

Cover Page

Order ID : Q1668

Project ID : US EPA Riverside Industrial Park Superfund Site

Client : Woodard & Curran

Lab Sample Number

Q1668-01
Q1668-02
Q1668-03
Q1668-04

Client Sample Number

IA-B1-4-3252025
IA-B1-2-3252025
IA-B1-3-3252025
IA-B1-1-3252025

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : _____

Date: 4/21/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



SHIPPING DOCUMENTS

Client Contact Information				Bottle Order ID : B2502051				Courier :				10 of 13 COCs																			
Client ID : WOOD06 Project ID : NYCHHC Environmental Services				Sampler Name(s) : <i>Clyde McFar</i>				Analysis				Matrix																			
Customer Name : Woodard & Curran Address : 800 Westchester Avenue, Suite N507 Suite N507				Project Manager : Stephanie rogacki				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified				Indoor/Ambient Air Soil Gas																			
				Phone Number : 800-807-4080																											
				Fax Number : 914-448-0147																											
City : Rye Brook				Site Details:																											
State : NY				Analysis Turnaround Time																											
Zip Code : 10573				Standard : 10 business days OR				Data Package Type :																							
Country :				Rush (Specify): Days				EDD Type :																							
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	TO-15																
1A-B1-4-2128/25	3/23/25 3/24/25	1041	1070	-30	-7	70	70	-30	-5.9	10567 10506	10588 10311	6 L	4.16	VL042078.D	X			X													
Temperature (Fahrenheit) <table border="1"> <tr> <td></td> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td>45</td> <td>54</td> <td>38</td> </tr> <tr> <td>Stop</td> <td>40</td> <td></td> <td></td> </tr> </table>											Ambient	Maximum	Minimum	Start	45	54	38	Stop	40			GC/MS Analyst Signature (TO-15) <i>[Signature]</i>									
	Ambient	Maximum	Minimum																												
Start	45	54	38																												
Stop	40																														
Pressure (Inches of Hg) <table border="1"> <tr> <td></td> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td>30.05</td> <td>30.25</td> <td>29.90</td> </tr> <tr> <td>Stop</td> <td>30.25</td> <td></td> <td></td> </tr> </table>											Ambient	Maximum	Minimum	Start	30.05	30.25	29.90	Stop	30.25			** Submittal of this COC indicates approval of the analysis based on existing conditions. <i>* Field Reading 5556</i> Please follow the instructions on the back of this COC.									
	Ambient	Maximum	Minimum																												
Start	30.05	30.25	29.90																												
Stop	30.25																														
Special Instructions/QC Requirements & Comments :																															
Suspected Contamination: High Medium Low PID Readings: 0.3 ppm Sampling site (State): New Jersey																															
Quick Connector required : NO																															
Canisters Shipped by: <i>Sam</i>				Date/Time: 03/24/25				Canisters Received by: <i>AL</i>				Date/Time: 3/27/25 1125				B2502051 - 20															
Samples Relinquished by: <i>[Signature]</i>				Date/Time: 3/27/25 1125				Received by:				Date/Time:																			
Relinquished by:				Date/Time:				Received by:				Date/Time:																			

Client Contact Information						Bottle Order ID : B2502051				Courier :				<u>11</u> of <u>13</u> COCs				
Client ID : WOOD06 Project ID : NYCHHC Environmental Services						Sampler Name(s) : <i>Clayton Hefner</i>				Analysis				Matrix				
Customer Name : Woodard & Curran Address : 800 Westchester Avenue, Suite N507 Suite N507 City : Rye Brook State : NY Zip Code : 10573 Country :						Project Manager : Stephanie rogacki				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified								
						Phone Number : 800-807-4080												
						Fax Number : 914-448-0147												
						Site Details:												
Analysis Turnaround Time						Standard : 10 business days OR				Data Package Type :								
Rush (Specify): Days						EDD Type :												
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum In Field ("Hg) (Start)	Can Vacuum In Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	TO-15		Indoor/Ambient Air	Soil Gas
1A-B1-2-3/25/25	3/15/25 3/24/25	1029	1015	-29	-5	70	70	-30	-5.5	10529	10269	6 L	4.16	VL042052.D	X		X	
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15) <i>Sut</i>								
		Ambient	Maximum	Minimum														
Start		45	54	38														
Stop		40																
Pressure (Inches of Hg)										** Submittal of this COC indicates approval of the analysis based on existing conditions. <i>* Hold Pending SSSG</i> Please follow the instructions on the back of this COC.								
		Ambient	Maximum	Minimum														
Start		30.05	30.25	29.90														
Stop		30.25																
Special Instructions/QC Requirements & Comments :																		
Suspected Contamination: High Medium Low PID Readings: <i>0.3 ppm</i> Sampling site (State): <i>New Jersey</i>																		
Quick Connector required : <i>No</i>																		
Canisters Shipped by: <i>Sevin</i>					Date/Time: <i>03/24/25</i>					Canisters Received by: <i>cl</i>					Date/Time: <i>3/27/25 1225</i>			
Samples Relinquished by: <i>[Signature]</i>					Date/Time: <i>3/27/25 1/25</i>					Received by:					Date/Time:			
Relinquished by:					Date/Time:					Received by:					Date/Time:			

Client Contact Information				Bottle Order ID : B2502051				Courier :				12 of 13 COCs																
Client ID : WOOD06				Project ID : NYCHHC Environmental Services				Sampler Name(s) : <i>Clayton Hefner</i>				Analysis		Matrix														
Customer Name : Woodard & Curran Address : 800 Westchester Avenue, Suite N507 Suite N507 City : Rye Brook State : NY Zip Code : 10573 Country :				Project Manager : Stephanie rogacki				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified				TO-15		Indoor/Ambient Air		Soil Gas												
				Phone Number : 800-807-4080																								
				Fax Number : 914-448-0147																								
				Site Details:																								
				Analysis Turnaround Time				Data Package Type :																				
				Standard : 10 business days OR				EDD Type :																				
				Rush (Specify): Days																								
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID														
1A-B1-3-3/25/25	3/25/25	1039	1018	-30	-7	70	70	-30	-5.5	10520	10060 ~~10283~~	6 L	4.16	VL042078.D	X	X												
Temperature (Fahrenheit) <table border="1"> <tr> <td></td> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td>45</td> <td>54</td> <td>38</td> </tr> <tr> <td>Stop</td> <td>40</td> <td></td> <td></td> </tr> </table>											Ambient	Maximum	Minimum	Start	45	54	38	Stop	40			GC/MS Analyst Signature (TO-15) <i>[Signature]</i>						
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	Ambient	Maximum	Minimum																									
Start	30.05	30.25	29.90																									
Stop	30.25																											
Special Instructions/QC Requirements & Comments :																												
Suspected Contamination: High Medium Low PID Readings: <i>0.31pm</i>																												
Sampling site (State): <i>New Jersey</i>																												
Quick Connector required : <i>NO</i>																												
Canisters Shipped by: <i>Sum</i>				Date/Time: <i>03/24/25</i>				Canisters Received by: <i>CR</i>				Date/Time: <i>3/25/25 1125</i>																
Samples Relinquished by: <i>[Signature]</i>				Date/Time: <i>3/25/25 1125</i>				Received by:				Date/Time:																
Relinquished by:				Date/Time:				Received by:				Date/Time:																

Client Contact Information				Bottle Order ID : B2502051				Courier :				<u>13</u> of <u>13</u> COCs				
Client ID : WOOD06 Project ID : NYCHHC Environmental Services				Sampler Name(s) : <u>Cleyston Hefner</u>				Analysis				Matrix				
Customer Name : Woodard & Curran Address : 800 Westchester Avenue, Suite N507 Suite N507 City : Rye Brook State : NY Zip Code : 10573 Country :				Project Manager : Stephanie rogacki				AIR ANALYSIS CHAIN-OF-CUSTODY Individual Certified								
				Phone Number : 800-807-4080												
				Fax Number : 914-448-0147												
				Site Details:												
Analysis Turnaround Time				Data Package Type :												
Standard : 10 business days OR				Rush (Specify): Days				EDD Type :								
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID	Flow Controller Readout (ml/min)	Can Cert ID	TO-15	Indoor/Ambient Air	Soil Gas
1A-B1-1 3/25/25	3/25/25 3/26/25	1025	1013	-30	-5	70	70	-30	-4.7	10110	~~10601~~ 10601	6 L	4.16	VL041876.D OK	X	X
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15) Sed						
		Ambient	Maximum	Minimum												
Start		45	54	38												
Stop		40														
Pressure (Inches of Hg)										** Submittal of this COC indicates approval of the analysis based on existing conditions. <u>* Hold Pending SSSG</u> Please follow the instructions on the back of this COC.						
		Ambient	Maximum	Minimum												
Start		30.05	30.25	29.90												
Stop		30.25														
Special Instructions/QC Requirements & Comments :																
Suspected Contamination: High Medium Low PID Readings: <u>0.3 ppm</u> Sampling site (State): <u>New Jersey</u>																
Quick Connector required : <u>No</u>																
Canisters Shipped by: <u>Sed</u>				Date/Time: <u>03/24/25</u>				Canisters Received by: <u>CA</u>				Date/Time: <u>3/27/25 12:5</u>				
Samples Relinquished by: <u>[Signature]</u>				Date/Time: <u>3/27/25 11:25</u>				Received by:				Date/Time:				
Relinquished by:				Date/Time:				Received by:				Date/Time:				

From: Jill Tribley <jtribley@woodardcurran.com>
Sent: Thursday, April 10, 2025 4:48 PM
To: Kiran Saleem; CHEMTECH-Data@chemtech.net; Bryan Maurer; Stephanie Rogacki
Cc: Yazmeen Gomez; Clayton Hefner
Subject: RE: Summary Report Details For Project US EPA Riverside Industrial Park Superfund Site-Q1725.
Attachments: Q1726-LoginSummaryReport.pdf; Q1668-LoginSummaryReport.pdf

EXTERNAL EMAIL - This email was sent by a person from outside your organization. Exercise caution when clicking links, opening attachments or taking further action, before validating its authenticity.

Secured by Check Point

Hello Kiran, please analyze the samples from the attached SDGs:
Q1726 – all (Building 2 IA samples)
Q1668 – all (Building 1 IA samples)
Q1665 – Samples -03, -10, -11, and -18 (Building 10 samples) These are highlighted on the attached login summary; I sent previous instruction on this SDG earlier this week. These samples are in addition to the analysis we requested on 4/8.
Please reach out if you have any questions!

Jill D. Tribley, P.G.
412-535-0833



From: Kiran Saleem <Kiran.Saleem@alliancetg.com>
Sent: Thursday, April 10, 2025 2:06 PM
To: CHEMTECH-Data@chemtech.net; Bryan Maurer <bmaurer@woodardcurran.com>; Jill Tribley <jtribley@woodardcurran.com>; Stephanie Rogacki <SRogacki@woodardcurran.com>
Cc: Yazmeen Gomez <Yazmeen.Gomez@alliancetg.com>
Subject: Re: Summary Report Details For Project US EPA Riverside Industrial Park Superfund Site-Q1725.

Good Afternoon Bryan,

Please review the results and let us know which samples you would want to activate from which are on hold.

Thank you!

NOTE: Chemtech is now an Alliance Technical Group company. Please add [AllianceTG.com](https://www.alliancetg.com) to your safe senders list to ensure receipt of important emails.

Regards,

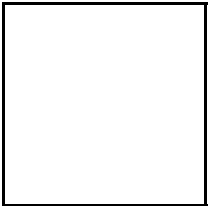


Kiran Saleem
Project Manager
Alliance Technical Group
Main: 908-789-8900
Direct: 908-728-3148
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com

From: CHEMTECH-Data@chemtech.net <CHEMTECH-Data@chemtech.net>
Sent: Thursday, April 10, 2025 1:26 PM
To: bmaurer@woodardcurran.com <bmaurer@woodardcurran.com>; jtribley@woodardcurran.com <jtribley@woodardcurran.com>; srogacki@woodardcurran.com <srogacki@woodardcurran.com>
Subject: Summary Report Details For Project US EPA Riverside Industrial Park Superfund Site-Q1725.

EXTERNAL EMAIL - This email was sent by a person from outside your organization. Exercise caution when clicking links, opening attachments or taking further action, before validating its authenticity.

Secured by Check Point



To Bryan Maurer;

Please see the attached Summary Report for the following project, or download the file using your login credentials from the link below.

Order ID : Q1725
Project ID : US EPA Riverside Industrial Park Superfund Site
Download File : <https://chemtech.net/secureLogin.aspx>
Order Date : 4/3/2025 1:48:00 PM

CHEMTECH's Project Manager : YAZMEEN GOMEZ , YAZMEEN@CHEMTECH.NET , 908-357-0579 Ext :3149
CHEMTECH's Sales Executive : Jordan Hedvat , jordan@chemtech.net , 908-728-3144 Ext :

Thank you for the opportunity to provide you with our services. For any questions please feel free to contact your project manager.

Click Here for our short online customer Survey chemtech.net/ClientSurvey.aspx.

Thank you,

Alliance Technical Group LLC.

Notice: The information transmitted in this e-mail message and in any attachments is intended Solely for the attention of the named addressee(s) and may contain confidential and/or privileged material. Any review, retransmission, dissemination or other use of, or taking of any action in reliance upon, this information by persons or entities other than the intended recipient is strictly prohibited and may be unlawful. If you have received this transmission in error, please notify us immediately by return e-mail, and permanently delete this transmission, including attachments if any, from any computer.

Laboratory Certification

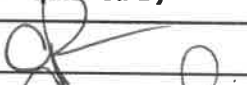
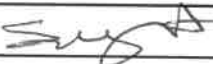
Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

Internal Chain of Custody

Instructions: Use 1 form for each 20 samples of aliquot

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample			
Laboratory: <u>Chemtech</u>		Location: <u>284 Sheffield Street, Mountainside, NJ 7092</u>	
Field Sample Seal No. <u>Q1668</u>		Title: <u>Sample Custodian</u>	
Case No.: <u>US EPA Riverside Industria</u>		Date Broken <u>3/25/2025</u> <u>3/27/2025</u> Military Time Seal Broken: <u>11:25:00</u>	
		Analytical Parameter/Fraction <u>TO-15</u>	

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
Q1668-01	IA-B1-4-32525		
Q1668-02	IA-B1-2-32525		
Q1668-03	IA-B1-3-32525		
Q1668-04	IA-B1-1-32525		

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
3-27-25	1440	Signature 	Signature 	
		Printed Name <u>Christina Perez</u>	Printed Name <u>Samuel Yencen</u>	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	

Distribution: White - Original (Sent With Report)

Yellow - Contractor Archive

Pink - Sample Custodian - Interim Copy

AIR SAMPLE PRESSURE & DILUTION LOGBOOKAnalyst Signature: *John Paul*Supervisor Signature: *Sut*

METHOD: TO-15

Pressure Gauge ID: A255971

Date	Sample Number	Canister #	Initial Pressure psia	Initial Pressure Hg	Final Pressure psia	Final Pressure Hg	Dilution Factor	Comment
03/25/25	Q1665-22	10306	11.2	-7.1				sq
03/27/25	Q1668-01	10588	11.8	-5.9				
03/27/25	Q1668-02	10269	12.0	-5.5				
↓	Q1668-03	10060	12.0	-5.5				
↓	Q1668-04	10601	12.4	-4.7				
03/27/25	Q1669-01	10311	11.0	-7.5				
↓	Q1669-02	10283	11.8	-5.9				
	Q1669-03	10320	11.6	-6.3				
	Q1669-04	10267	12.4	-4.7				
	Q1669-05	10607	13.0	-3.5				
	Q1669-06	10606	13.8	-1.8				
	Q1669-07	10445	10.8	-8.0				
	Q1669-08	10282	11.2	-7.1				
↓	Q1669-09	10285	11.6	-6.3				

09001

15.5

Date Received: _____

CHEMTECH

Comments: _____

Analysis: _____

Date: 3/25 - 3/26/25 Time: 10:18

Project Name: PPG - Air Wash

Client Name: Woburn & Curran

Client Sample ID #: IA-B1-3-3/25/25

Storage Location: Air Lab

Sample: Q1668-03

Cust #: IA-B1-3-32525

of Disposal: _____

32502051

284 Sheffield Street, Mountaintop, NJ 07092 P: (908) 789-8900 F: (908) 789-8922

CHEMTECH

09001

15.5

Date Received: _____

CHEMTECH

Comments: _____

Analysis: _____

Date: 3/25 - 3/26/25 Time: 10:12

Project Name: PPG - Air Wash

Client Name: Woburn & Curran

Client Sample ID #: IA-B1-3-3/25/25

Storage Location: Air Lab

Sample: Q1668-04

Cust #: IA-B1-1-32525

Disposal: _____

32502051

284 Sheffield Street, Mountaintop, NJ 07092 P: (908) 789-8900 F: (908) 789-8922

CHEMTECH

88501

284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908) 789-8922

CHEMTECH

Client Sample ID #: IA-B1-4-3/25/25
 Client Name: Wick & Wynn
 Project Name: PPG Rm 1
 Date: 3/25/25 Time: 10:20
 Analysis: _____
 Comments: _____
 CHEMTECH
 Date Received: _____
 Cust #: IA-B1-4-32525
 Sample: Q1668-01
 Storage Location: Air Lab
 Disposal: _____

B2502051

10269
55

284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908) 789-8922

CHEMTECH

Client Sample ID #: IA-B1-2-3/25/25
 Client Name: Wick & Wynn
 Project Name: PPG Rm 1
 Date: 3/25-7/25/25 Time: 10:15
 Analysis: _____
 Comments: _____
 CHEMTECH
 Date Received: _____
 Cust #: IA-B1-2-32525
 Sample: Q1668-02
 Storage Location: Air Lab
 Disposal: _____

B2502051



284 Sheffield Street, Mountainside, NJ 07092
Phone: 908 789 8900 Fax: 908 789 8922

CASE NARRATIVE

Woodard & Curran

Project Name: US EPA Riverside Industrial Park Superfund Site

Project # N/A

Chemtech Project # Q1668

Test Name: TO-15

A. Number of Samples and Date of Receipt:

4 Air samples were received on 03/27/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: TO-15. This data package contains results for TO-15.

C. Analytical Techniques:

The analysis performed on instrument MSVOA_L were done using GC column RTX-1, which is 60 meters, 0.32 mm id, 1.0 um df, Restek Cat. #10157. The Trap was supplied by Entech, glass bead and Tenax, Entech 7100 A Preconcentrator. The analysis of TO-15 was based on method TO-15.

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The RPD for {Q1668-01DUP} with File ID: VL042362.D met criteria except for Tetrachloroethene[22.2%] due to difference in results of original and DUP.

The Blank Spike met requirements for all samples.

The Blank analysis did not indicate the presence of lab contamination.

The Initial Calibration met the requirements.

The Tuning criteria met requirements.

Samples IA-B1-4-3252025, IA-B1-3-3252025 were diluted due to high concentrations.

E. Additional Comments:

This data Package has been revised to include DUP raw data.

The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.

The not QT review data is reported in the Miscellaneous.

The Sample # IA-B1-4-3252025DL and IA-B1-3-3252025DL have the concentration of target compound below Method detection limits, therefore it is not reported as Hit in Form1.

The Manual Integrations are performed for the followings.

Manual Integration Report							
Sequence	VL041725	Instrument			MSVOA_I		

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICCC010	VL042349.D	m/p-Xylene	SAM	4/18/2025 4:19:07 PM	MMDadoda	4/18/2025 10:45:20 PM	Peak Integrated by Software incorrectly
VSTDICCC002	VL042350.D	1,4-Dioxane	SAM	4/18/2025 4:19:12 PM	MMDadoda	4/18/2025 10:45:17 PM	Peak Integrated by Software incorrectly
VSTDICCC002	VL042350.D	cis-1,3-Dichloropropene	SAM	4/18/2025 4:19:12 PM	MMDadoda	4/18/2025 10:45:17 PM	Peak Integrated by Software incorrectly
VSTDICCC002	VL042350.D	Ethanol	SAM	4/18/2025 4:19:12 PM	MMDadoda	4/18/2025 10:45:17 PM	Peak Integrated by Software incorrectly
VSTDICCC002	VL042350.D	Heptane	SAM	4/18/2025 4:19:12 PM	MMDadoda	4/18/2025 10:45:17 PM	Peak Integrated by Software incorrectly
VSTDICCC002	VL042350.D	m/p-Xylene	SAM	4/18/2025 4:19:12 PM	MMDadoda	4/18/2025 10:45:17 PM	Peak Integrated by Software incorrectly
VSTDICCC002	VL042350.D	Trichloroethene	SAM	4/18/2025	MMDadoda	4/18/2025 10:45:17 PM	Peak Integrated

				4:19:12 PM			d by Software incorrectl y
VSTDICC001	VL042351.D	1,1,2-Trichloroethane	SAM	4/18/2025 4:19:17 PM	MMDadoda	4/18/2025 10:45:15 PM	Peak Integrated by Software incorrectl y
VSTDICC001	VL042351.D	1,3-Butadiene	SAM	4/18/2025 4:19:17 PM	MMDadoda	4/18/2025 10:45:15 PM	Peak Integrated by Software incorrectl y
VSTDICC001	VL042351.D	1,4-Dioxane	SAM	4/18/2025 4:19:17 PM	MMDadoda	4/18/2025 10:45:15 PM	Peak Integrated by Software incorrectl y
VSTDICC001	VL042351.D	2,2,4-Trimethylpentane	SAM	4/18/2025 4:19:17 PM	MMDadoda	4/18/2025 10:45:15 PM	Peak Integrated by Software incorrectl y
VSTDICC001	VL042351.D	cis-1,3-Dichloropropene	SAM	4/18/2025 4:19:17 PM	MMDadoda	4/18/2025 10:45:15 PM	Peak Integrated by Software incorrectl y
VSTDICC001	VL042351.D	Cyclohexane	SAM	4/18/2025 4:19:17 PM	MMDadoda	4/18/2025 10:45:15 PM	Peak Integrated by Software incorrectl y
VSTDICC001	VL042351.D	Ethanol	SAM	4/18/2025 4:19:17 PM	MMDadoda	4/18/2025 10:45:15 PM	Peak Integrated by Software incorrectl y
VSTDICC001	VL042351.D	Heptane	SAM	4/18/2025 4:19:17 PM	MMDadoda	4/18/2025 10:45:15 PM	Peak Integrated by Software incorrectl y
VSTDICC001	VL042351.D	m/p-Xylene	SAM	4/18/2025 4:19:17 PM	MMDadoda	4/18/2025 10:45:15 PM	Peak Integrated by Software

							incorrectly
VSTDIC001	VL042351.D	Methyl Methacrylate	SAM	4/18/2025 4:19:17 PM	MMDadoda	4/18/2025 10:45:15 PM	Peak Integrated by Software incorrectly
VSTDIC001	VL042351.D	t-1,3-Dichloropropene	SAM	4/18/2025 4:19:17 PM	MMDadoda	4/18/2025 10:45:15 PM	Peak Integrated by Software incorrectly
VSTDIC0.5	VL042352.D	1,1,2-Trichloroethane	SAM	4/18/2025 4:20:33 PM	MMDadoda	4/18/2025 10:45:07 PM	Peak Integrated by Software incorrectly
VSTDIC0.5	VL042352.D	1,2-Dichloropropane	SAM	4/18/2025 4:20:33 PM	MMDadoda	4/18/2025 10:45:07 PM	Peak Integrated by Software incorrectly
VSTDIC0.5	VL042352.D	1,4-Dioxane	SAM	4/18/2025 4:20:33 PM	MMDadoda	4/18/2025 10:45:07 PM	Peak Integrated by Software incorrectly
VSTDIC0.5	VL042352.D	4-Methyl-2-Pentanone	SAM	4/18/2025 4:20:33 PM	MMDadoda	4/18/2025 10:45:07 PM	Peak Integrated by Software incorrectly
VSTDIC0.5	VL042352.D	Chlorobenzene	SAM	4/18/2025 4:20:33 PM	MMDadoda	4/18/2025 10:45:07 PM	Peak Integrated by Software incorrectly
VSTDIC0.5	VL042352.D	cis-1,3-Dichloropropene	SAM	4/18/2025 4:20:33 PM	MMDadoda	4/18/2025 10:45:07 PM	Peak Integrated by Software incorrectly
VSTDIC0.5	VL042352.D	Ethanol	SAM	4/18/2025 4:20:33 PM	MMDadoda	4/18/2025 10:45:07 PM	Peak Integrated by Software incorrectly

VSTDICC0.5	VL042352.D	Heptane	SAM	4/18/2025 4:20:33 PM	MMDadoda	4/18/2025 10:45:07 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042352.D	m/p-Xylene	SAM	4/18/2025 4:20:33 PM	MMDadoda	4/18/2025 10:45:07 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042352.D	Methyl Methacrylate	SAM	4/18/2025 4:20:33 PM	MMDadoda	4/18/2025 10:45:07 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042352.D	t-1,3-Dichloropropene	SAM	4/18/2025 4:20:33 PM	MMDadoda	4/18/2025 10:45:07 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL042352.D	Tetrahydrofuran	SAM	4/18/2025 4:20:33 PM	MMDadoda	4/18/2025 10:45:07 PM	Peak Integrated by Software incorrectly
VSTDICC0.1	VL042353.D	1,1,1-Trichloroethane	SAM	4/18/2025 4:20:37 PM	MMDadoda	4/18/2025 10:45:04 PM	Peak Integrated by Software incorrectly
VSTDICC0.1	VL042353.D	1,1,2,2-Tetrachloroethane	SAM	4/18/2025 4:20:37 PM	MMDadoda	4/18/2025 10:45:04 PM	Peak Integrated by Software incorrectly
VSTDICC0.1	VL042353.D	1,2-Dibromoethane	SAM	4/18/2025 4:20:37 PM	MMDadoda	4/18/2025 10:45:04 PM	Peak Integrated by Software incorrectly
VSTDICC0.1	VL042353.D	Tetrachloroethane	SAM	4/18/2025 4:20:37 PM	MMDadoda	4/18/2025 10:45:04 PM	Peak Integrated by Software incorrectly
VSTDICC0.1	VL042353.D	Trichloroethene	SAM	4/18/2025	MMDadoda	4/18/2025 10:45:04 PM	Peak Integrated

				4:20:37 PM			d by Software incorrectl y
VSTDICC0.03	VL042354.D	1,1,1-Trichloroethane	SAM	4/18/2025 4:19:24 PM	MMDadoda	4/18/2025 10:45:02 PM	Peak Integrated by Software incorrectl y
VSTDICC0.03	VL042354.D	1,1,2,2-Tetrachloroethane	SAM	4/18/2025 4:19:24 PM	MMDadoda	4/18/2025 10:45:02 PM	Peak Integrated by Software incorrectl y
VSTDICC0.03	VL042354.D	Carbon Tetrachloride	SAM	4/18/2025 4:19:24 PM	MMDadoda	4/18/2025 10:45:02 PM	Peak Integrated by Software incorrectl y
VSTDICC0.03	VL042354.D	Tetrachloroethane	SAM	4/18/2025 4:19:24 PM	MMDadoda	4/18/2025 10:45:02 PM	Peak Integrated by Software incorrectl y
VSTDICC0.03	VL042354.D	Trichloroethene	SAM	4/18/2025 4:19:24 PM	MMDadoda	4/18/2025 10:45:02 PM	Peak Integrated by Software incorrectl y
VSTDICC015	VL042355.D	m/p-Xylene	SAM	4/18/2025 4:21:35 PM	MMDadoda	4/18/2025 10:44:59 PM	Peak Integrated by Software incorrectly
VSTDICV010	VL042356.D	m/p-Xylene	SAM	4/18/2025 4:20:42 PM	MMDadoda	4/18/2025 10:44:57 PM	Peak Integrated by Software incorrectly

VL0417ABS01	VL042358.D	m/p-Xylene	SAM	4/18/2025 4:21:39 PM	MMDadoda	4/18/2025 10:44:55 PM	Peak Integrated by Software incorrectl y
Q1668-01	VL042361.D	Carbon Tetrachloride	SAM	4/18/2025 4:19:29 PM	MMDadoda	4/18/2025 10:44:40 PM	Peak Integrated by Software incorrectl y

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Q1668-01	VL042361.D	Chlorodifluoromethane	SAM	4/18/2025 4:19:29 PM	MMDadoda	4/18/2025 10:44:40 PM	Peak Integrated by Software incorrectly
Q1668-01	VL042361.D	Tetrachloroethene	SAM	4/18/2025 4:19:29 PM	MMDadoda	4/18/2025 10:44:40 PM	Peak Integrated by Software incorrectly
Q1668-01DUP	VL042362.D	2,2,4-Trimethylpentane	SAM	4/18/2025 4:22:32 PM	MMDadoda	4/18/2025 10:44:37 PM	Peak Integrated by Software incorrectly
Q1668-01DUP	VL042362.D	Carbon Tetrachloride	SAM	4/18/2025 4:22:32 PM	MMDadoda	4/18/2025 10:44:37 PM	Peak Integrated by Software incorrectly
Q1668-01DUP	VL042362.D	Chlorodifluoromethane	SAM	4/18/2025 4:22:32 PM	MMDadoda	4/18/2025 10:44:37 PM	Peak Integrated by Software incorrectly
Q1668-01DUP	VL042362.D	Naphthalene,2-methyl-	SAM	4/18/2025 4:22:32 PM	MMDadoda	4/18/2025 10:44:37 PM	Peak Integrated by Software incorrectly
Q1668-01DUP	VL042362.D	Tetrachloroethene	SAM	4/18/2025 4:22:32 PM	MMDadoda	4/18/2025 10:44:37 PM	Peak Integrated by Software incorrectly
Q1668-03	VL042363.D	2,2,4-Trimethylpentane	SAM	4/18/2025 4:20:55 PM	MMDadoda	4/18/2025 10:44:34 PM	Peak Integrated by Software incorrectly
Q1668-03	VL042363.D	Carbon Tetrachloride	SAM	4/18/2025 4:20:55 PM	MMDadoda	4/18/2025 10:44:34 PM	Peak Integrated by Software incorrectly
Q1668-03	VL042363.D	Chlorodifluoromethane	SA	4/18/2025	MMDadoda	4/18/2025	Peak

	D	e	M	5 4:20:55 PM	a	5 10:44:34 PM	Integrated by Software incorrectly
Q1668-03	VL042363.D	Cyclohexane	SAM	4/18/2025 4:20:55 PM	MMDadoda	4/18/2025 10:44:34 PM	Peak Integrated by Software incorrectly
Q1668-03	VL042363.D	n-Butylbenzene	SAM	4/18/2025 4:20:55 PM	MMDadoda	4/18/2025 10:44:34 PM	Peak Integrated by Software incorrectly
Q1668-03	VL042363.D	n-propylbenzene	SAM	4/18/2025 4:20:55 PM	MMDadoda	4/18/2025 10:44:34 PM	Peak Integrated by Software incorrectly
Q1668-03	VL042363.D	Naphthalene,2-methyl-	SAM	4/18/2025 4:20:55 PM	MMDadoda	4/18/2025 10:44:34 PM	Peak Integrated by Software incorrectly
Q1668-03	VL042363.D	Tetrachloroethene	SAM	4/18/2025 4:20:55 PM	MMDadoda	4/18/2025 10:44:34 PM	Peak Integrated by Software incorrectly
Q1668-03	VL042363.D	Trichloroethene	SAM	4/18/2025 4:20:55 PM	MMDadoda	4/18/2025 10:44:34 PM	Peak Integrated by Software incorrectly
Q1668-04	VL042364.D	2,2,4-Trimethylpentane	SAM	4/18/2025 4:21:00 PM	MMDadoda	4/18/2025 10:45:48 PM	Peak Integrated by Software incorrectly
Q1668-04	VL042364.D	Carbon Tetrachloride	SAM	4/18/2025 4:21:00 PM	MMDadoda	4/18/2025 10:45:48 PM	Peak Integrated by Software incorrectly
Q1668-04	VL042364.D	Chlorodifluoromethane	SAM	4/18/2025 4:21:00 PM	MMDadoda	4/18/2025 10:45:48 PM	Peak Integrated by

						PM	Software incorrectl y
Q1668-04	VL042364. D	n-Butylbenzene	SA M	4/18/202 5 4:21:00 PM	MMDadod a	4/18/202 5 10:45:48 PM	Peak Integrate d by Software incorrectl y
Q1668-04	VL042364. D	Propene	SA M	4/18/202 5 4:21:00 PM	MMDadod a	4/18/202 5 10:45:48 PM	Peak Integrate d by Software incorrectl y
Q1668-04	VL042364. D	Tetrachloroethene	SA M	4/18/202 5 4:21:00 PM	MMDadod a	4/18/202 5 10:45:48 PM	Peak Integrate d by Software incorrectl y
Q1668-02	VL042365. D	2,2,4- Trimethylpentane	SA M	4/18/202 5 4:20:14 PM	MMDadod a	4/18/202 5 10:44:31 PM	Peak Integrate d by Software incorrectl y
Q1668-02	VL042365. D	Benzene	SA M	4/18/202 5 4:20:14 PM	MMDadod a	4/18/202 5 10:44:31 PM	Peak Integrate d by Software incorrectl y
Q1668-02	VL042365. D	Carbon Tetrachloride	SA M	4/18/202 5 4:20:14 PM	MMDadod a	4/18/202 5 10:44:31 PM	Peak Integrate d by Software incorrectl y
Q1668-02	VL042365. D	Chlorodifluoromethan e	SA M	4/18/202 5 4:20:14 PM	MMDadod a	4/18/202 5 10:44:31 PM	Peak Integrate d by Software incorrectl y
Q1668-02	VL042365. D	Heptane	SA M	4/18/202 5 4:20:14 PM	MMDadod a	4/18/202 5 10:44:31 PM	Peak Integrate d by Software incorrectl y
Q1668-02	VL042365. D	n-Butylbenzene	SA M	4/18/202 5 4:20:14 PM	MMDadod a	4/18/202 5 10:44:31 PM	Peak Integrate d by Software incorrectl

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Q1668-02	VL042365.D	Naphthalene,2-methyl-	SAM	4/18/2025 4:20:14 PM	MMDadoda	4/18/2025 10:44:31 PM	Peak Integrated by Software incorrectly
Q1668-02	VL042365.D	Tetrachloroethene	SAM	4/18/2025 4:20:14 PM	MMDadoda	4/18/2025 10:44:31 PM	Peak Integrated by Software incorrectly
Q1668-02	VL042365.D	Trichlorofluoromethane	SAM	4/18/2025 4:20:14 PM	MMDadoda	4/18/2025 10:44:31 PM	Peak Integrated by Software incorrectly
Q1668-01DL	VL042374.D	2-Butanone	SAM	4/18/2025 4:22:06 PM	MMDadoda	4/18/2025 10:43:55 PM	Peak Integrated by Software incorrectly
Q1668-01DL	VL042374.D	Benzene	SAM	4/18/2025 4:22:06 PM	MMDadoda	4/18/2025 10:43:55 PM	Peak Integrated by Software incorrectly
Q1668-01DL	VL042374.D	Carbon Tetrachloride	SAM	4/18/2025 4:22:06 PM	MMDadoda	4/18/2025 10:43:55 PM	Peak Integrated by Software incorrectly
Q1668-01DL	VL042374.D	Heptane	SAM	4/18/2025 4:22:06 PM	MMDadoda	4/18/2025 10:43:55 PM	Peak Integrated by Software incorrectly
Q1668-01DL	VL042374.D	n-Butylbenzene	SAM	4/18/2025 4:22:06 PM	MMDadoda	4/18/2025 10:43:55 PM	Peak Integrated by Software incorrectly
Q1668-01DL	VL042374.D	Toluene	SAM	4/18/2025 4:22:06 PM	MMDadoda	4/18/2025 10:43:55 PM	Peak Integrated by Software incorrectly
Q1668-03DL	VL042375.	Benzene	SA	4/18/2025	MMDadoda	4/18/2025	Peak

	D		M	5 4:22:02 PM	a	5 10:43:51 PM	Integrated by Software incorrectly
Q1668-03DL	VL042375.D	n-Butylbenzene	SAM	4/18/2025 4:22:02 PM	MMDadoda	4/18/2025 10:43:51 PM	Peak Integrated by Software incorrectly
Q1668-03DL	VL042375.D	Styrene	SAM	4/18/2025 4:22:02 PM	MMDadoda	4/18/2025 10:43:51 PM	Peak Integrated by Software incorrectly
Q1668-03DL	VL042375.D	Toluene	SAM	4/18/2025 4:22:02 PM	MMDadoda	4/18/2025 10:43:51 PM	Peak Integrated by Software incorrectly

F. Manual Integration Comments:

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature _____

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following “ Results Qualifiers” are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. “10 U”. This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value. This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as “12 B”.
E	Indicates the analyte ‘s concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a “P”.
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1668

Completed

For thorough review, the report must have the following:

GENERAL:

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Custody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 04/21/2025

LAB CHRONICLE

OrderID:	Q1668	OrderDate:	3/27/2025 2:00:00 PM
Client:	Woodard & Curran	Project:	US EPA Riverside Industrial Park Superfund Site
Contact:	Bryan Maurer	Location:	Air Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1668-01	IA-B1-4-3252025	Air	TO-15	TO-15	03/26/25		04/17/25	03/27/25
Q1668-01DL	IA-B1-4-3252025DL	Air	TO-15	TO-15	03/26/25		04/18/25	03/27/25
Q1668-02	IA-B1-2-3252025	Air	TO-15	TO-15	03/26/25		04/17/25	03/27/25
Q1668-03	IA-B1-3-3252025	Air	TO-15	TO-15	03/26/25		04/17/25	03/27/25
Q1668-03DL	IA-B1-3-3252025DL	Air	TO-15	TO-15	03/26/25		04/18/25	03/27/25
Q1668-04	IA-B1-1-3252025	Air	TO-15	TO-15	03/26/25		04/17/25	03/27/25

Hit Summary Sheet SW-846

SDG No.: Q1668

Client: Woodard & Curran

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	IA-B1-4-3252025							
Q1668-01	IA-B1-4-3252025	Air	Dichlorodifluoromethane	2.27	J	1.04	2.47	ug/m3
Q1668-01	IA-B1-4-3252025	Air	Chloromethane	1.09		0.21	1.03	ug/m3
Q1668-01	IA-B1-4-3252025	Air	Trichlorofluoromethane	1.35	J	0.90	2.81	ug/m3
Q1668-01	IA-B1-4-3252025	Air	Heptane	7.79		0.45	2.05	ug/m3
Q1668-01	IA-B1-4-3252025	Air	Acetone	12.6		0.57	1.19	ug/m3
Q1668-01	IA-B1-4-3252025	Air	Carbon Disulfide	1.96		0.50	1.56	ug/m3
Q1668-01	IA-B1-4-3252025	Air	Methylene Chloride	9.73		0.66	1.74	ug/m3
Q1668-01	IA-B1-4-3252025	Air	Cyclohexane	11.4		0.76	1.72	ug/m3
Q1668-01	IA-B1-4-3252025	Air	2-Butanone	2.04		0.35	1.47	ug/m3
Q1668-01	IA-B1-4-3252025	Air	Carbon Tetrachloride	0.50		0.060	0.19	ug/m3
Q1668-01	IA-B1-4-3252025	Air	2,2,4-Trimethylpentane	0.89	J	0.47	2.34	ug/m3
Q1668-01	IA-B1-4-3252025	Air	Benzene	1.79		0.29	1.60	ug/m3
Q1668-01	IA-B1-4-3252025	Air	4-Methyl-2-Pentanone	80.3	E	0.37	2.05	ug/m3
Q1668-01	IA-B1-4-3252025	Air	Toluene	6.03		0.41	1.88	ug/m3
Q1668-01	IA-B1-4-3252025	Air	Tetrachloroethene	0.34		0.14	0.20	ug/m3
Q1668-01	IA-B1-4-3252025	Air	Ethyl Benzene	4.08		0.52	2.17	ug/m3
Q1668-01	IA-B1-4-3252025	Air	m/p-Xylene	40.8		0.91	4.34	ug/m3
Q1668-01	IA-B1-4-3252025	Air	o-Xylene	8.69		0.52	2.17	ug/m3
Q1668-01	IA-B1-4-3252025	Air	Styrene	6.81		0.47	2.13	ug/m3
Q1668-01	IA-B1-4-3252025	Air	1,3,5-Trimethylbenzene	6.39		0.54	2.46	ug/m3
Q1668-01	IA-B1-4-3252025	Air	1,2,4-Trimethylbenzene	18.7		0.39	2.46	ug/m3
Q1668-01	IA-B1-4-3252025	Air	Naphthalene	3.15		0.42	0.52	ug/m3
Q1668-01	IA-B1-4-3252025	Air	4-Ethyltoluene	4.92		0.59	2.46	ug/m3
Q1668-01	IA-B1-4-3252025	Air	Hexane	10.6		0.39	1.76	ug/m3
Total Voc :				244				
Q1668-01	IA-B1-4-3252025	Air	Cyclopentane, methyl-	* 2.50	J	0	0	ppbv
Q1668-01	IA-B1-4-3252025	Air	Pentane, 2-methyl-	* 2.00	J	0	0	ppbv
Q1668-01	IA-B1-4-3252025	Air	Cyclohexane, methyl-	* 2.50	J	0	0	ppbv
Q1668-01	IA-B1-4-3252025	Air	Cyclohexanone	* 4.40	J	0	0	ppbv
Q1668-01	IA-B1-4-3252025	Air	Decane	* 3.60	J	0	0	ppbv
Q1668-01	IA-B1-4-3252025	Air	Hexane, 3-methyl-	* 3.90	J	0	0	ppbv
Q1668-01	IA-B1-4-3252025	Air	Hexane, 2-methyl-	* 3.10	J	0	0	ppbv
Q1668-01	IA-B1-4-3252025	Air	Undecane	* 2.40	J	0	0	ppbv
Q1668-01	IA-B1-4-3252025	Air	Benzene, 2-ethyl-1,3-dimethyl-	* 2.00	J	0	0	ppbv
Q1668-01	IA-B1-4-3252025	Air	Heptane, 2,2,4,6,6-pentamethyl	* 2.20	J	0	0	ppbv

Hit Summary Sheet
SW-846

SDG No.: Q1668

Client: Woodard & Curran

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q1668-01	IA-B1-4-3252025	Air	Chlorodifluoromethane	* 0.30	J	0.090	0.50	ppbv
Q1668-01	IA-B1-4-3252025	Air	Naphthalene,2-methyl-	* 0.25	J	0.15	0.50	ppbv
Q1668-01	IA-B1-4-3252025	Air	Propene	* 0.62	J	0.15	0.50	ppbv
Q1668-01	IA-B1-4-3252025	Air	Isopropylbenzene	* 0.15	J	0.090	0.50	ppbv
Q1668-01	IA-B1-4-3252025	Air	n-propylbenzene	* 0.53	J	0.080	0.50	ppbv
Q1668-01	IA-B1-4-3252025	Air	p-Isopropyltoluene	* 0.16	J	0.090	0.50	ppbv
Q1668-01	IA-B1-4-3252025	Air	n-Butylbenzene	* 0.35	J	0.080	0.50	ppbv
Total Tics :				31.0				
Total Concentration:				275				
Client ID:	IA-B1-4-3252025DL							
Q1668-01DL	IA-B1-4-3252025D	Air	Chloromethane	1.63	JD	0.81	4.13	ug/m3
Q1668-01DL	IA-B1-4-3252025D	Air	Heptane	9.02	D	1.80	8.20	ug/m3
Q1668-01DL	IA-B1-4-3252025D	Air	Acetone	15.7	D	2.28	4.75	ug/m3
Q1668-01DL	IA-B1-4-3252025D	Air	Methylene Chloride	17.0	D	2.64	6.95	ug/m3
Q1668-01DL	IA-B1-4-3252025D	Air	Cyclohexane	13.4	D	3.03	6.88	ug/m3
Q1668-01DL	IA-B1-4-3252025D	Air	2-Butanone	2.65	JD	1.42	5.90	ug/m3
Q1668-01DL	IA-B1-4-3252025D	Air	Benzene	2.20	JD	1.12	6.39	ug/m3
Q1668-01DL	IA-B1-4-3252025D	Air	4-Methyl-2-Pentanone	84.8	D	1.52	8.20	ug/m3
Q1668-01DL	IA-B1-4-3252025D	Air	Toluene	6.78	JD	1.66	7.54	ug/m3
Q1668-01DL	IA-B1-4-3252025D	Air	Ethyl Benzene	4.34	JD	2.08	8.69	ug/m3
Q1668-01DL	IA-B1-4-3252025D	Air	m/p-Xylene	43.9	D	3.65	17.4	ug/m3
Q1668-01DL	IA-B1-4-3252025D	Air	o-Xylene	9.12	D	2.08	8.69	ug/m3
Q1668-01DL	IA-B1-4-3252025D	Air	Styrene	7.24	JD	1.87	8.52	ug/m3
Q1668-01DL	IA-B1-4-3252025D	Air	1,3,5-Trimethylbenzene	6.39	JD	2.16	9.83	ug/m3
Q1668-01DL	IA-B1-4-3252025D	Air	1,2,4-Trimethylbenzene	20.6	D	1.52	9.83	ug/m3
Q1668-01DL	IA-B1-4-3252025D	Air	Naphthalene	3.20	D	1.57	2.10	ug/m3
Q1668-01DL	IA-B1-4-3252025D	Air	4-Ethyltoluene	5.90	JD	2.36	9.83	ug/m3
Q1668-01DL	IA-B1-4-3252025D	Air	Hexane	14.8	D	1.55	7.05	ug/m3
Total Voc :				269				
Total Concentration:				269				
Client ID:	IA-B1-2-3252025							
Q1668-02	IA-B1-2-3252025	Air	Dichlorodifluoromethane	2.18	J	1.04	2.47	ug/m3
Q1668-02	IA-B1-2-3252025	Air	Chloromethane	1.09		0.21	1.03	ug/m3
Q1668-02	IA-B1-2-3252025	Air	Trichlorofluoromethane	1.24	J	0.90	2.81	ug/m3
Q1668-02	IA-B1-2-3252025	Air	tert-Butyl alcohol	0.67	J	0.58	1.52	ug/m3
Q1668-02	IA-B1-2-3252025	Air	Heptane	5.33		0.45	2.05	ug/m3
Q1668-02	IA-B1-2-3252025	Air	Acetone	12.8		0.57	1.19	ug/m3

Hit Summary Sheet
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SDG No.: Q1668

Client: Woodard & Curran

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q1668-02	IA-B1-2-3252025	Air	Methylene Chloride	4.86		0.66	1.74	ug/m3
Q1668-02	IA-B1-2-3252025	Air	Cyclohexane	3.79		0.76	1.72	ug/m3
Q1668-02	IA-B1-2-3252025	Air	2-Butanone	1.71		0.35	1.47	ug/m3
Q1668-02	IA-B1-2-3252025	Air	Carbon Tetrachloride	0.44		0.060	0.19	ug/m3
Q1668-02	IA-B1-2-3252025	Air	2,2,4-Trimethylpentane	1.03	J	0.47	2.34	ug/m3
Q1668-02	IA-B1-2-3252025	Air	Benzene	1.66		0.29	1.60	ug/m3
Q1668-02	IA-B1-2-3252025	Air	4-Methyl-2-Pentanone	48.0		0.37	2.05	ug/m3
Q1668-02	IA-B1-2-3252025	Air	Toluene	5.28		0.41	1.88	ug/m3
Q1668-02	IA-B1-2-3252025	Air	Tetrachloroethene	0.20		0.14	0.20	ug/m3
Q1668-02	IA-B1-2-3252025	Air	Ethyl Benzene	4.13		0.52	2.17	ug/m3
Q1668-02	IA-B1-2-3252025	Air	m/p-Xylene	25.6		0.91	4.34	ug/m3
Q1668-02	IA-B1-2-3252025	Air	o-Xylene	9.99		0.52	2.17	ug/m3
Q1668-02	IA-B1-2-3252025	Air	Styrene	2.00	J	0.47	2.13	ug/m3
Q1668-02	IA-B1-2-3252025	Air	1,3,5-Trimethylbenzene	8.85		0.54	2.46	ug/m3
Q1668-02	IA-B1-2-3252025	Air	1,2,4-Trimethylbenzene	26.6		0.39	2.46	ug/m3
Q1668-02	IA-B1-2-3252025	Air	Naphthalene	2.46		0.42	0.52	ug/m3
Q1668-02	IA-B1-2-3252025	Air	4-Ethyltoluene	6.39		0.59	2.46	ug/m3
Q1668-02	IA-B1-2-3252025	Air	Hexane	9.52		0.39	1.76	ug/m3
Total Voc :					186			
Q1668-02	IA-B1-2-3252025	Air	Dodecane	* 3.40	J	0	0	ppbv
Q1668-02	IA-B1-2-3252025	Air	Naphthalene, 1,2,3,4-tetrahydrc	* 2.70	J	0	0	ppbv
Q1668-02	IA-B1-2-3252025	Air	Decane	* 3.80	J	0	0	ppbv
Q1668-02	IA-B1-2-3252025	Air	Hexane, 3-methyl-	* 3.10	J	0	0	ppbv
Q1668-02	IA-B1-2-3252025	Air	Tridecane	* 3.40	J	0	0	ppbv
Q1668-02	IA-B1-2-3252025	Air	Benzene, 4-ethyl-1,2-dimethyl-	* 3.50	J	0	0	ppbv
Q1668-02	IA-B1-2-3252025	Air	Undecane	* 2.90	J	0	0	ppbv
Q1668-02	IA-B1-2-3252025	Air	Naphthalene, 1,2,3,4-tetrahydrc	* 3.60	J	0	0	ppbv
Q1668-02	IA-B1-2-3252025	Air	Benzene, 1-ethenyl-4-ethyl-	* 2.60	J	0	0	ppbv
Q1668-02	IA-B1-2-3252025	Air	Benzene, (1-methyl-1-butenyl)-	* 3.10	J	0	0	ppbv
Q1668-02	IA-B1-2-3252025	Air	Chlorodifluoromethane	* 0.26	J	0.090	0.50	ppbv
Q1668-02	IA-B1-2-3252025	Air	Naphthalene,2-methyl-	* 0.59	J	0.15	0.50	ppbv
Q1668-02	IA-B1-2-3252025	Air	Propene	* 0.64	J	0.15	0.50	ppbv
Q1668-02	IA-B1-2-3252025	Air	Isopropylbenzene	* 0.15	J	0.090	0.50	ppbv
Q1668-02	IA-B1-2-3252025	Air	n-propylbenzene	* 0.63	J	0.080	0.50	ppbv
Q1668-02	IA-B1-2-3252025	Air	n-Butylbenzene	* 0.54	J	0.080	0.50	ppbv
Total Tics :					34.9			
Total Concentration:					221			

Hit Summary Sheet
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SDG No.: Q1668
Client: Woodard & Curran

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	IA-B1-3-3252025							
Q1668-03	IA-B1-3-3252025	Air	Dichlorodifluoromethane	2.18	J	1.04	2.47	ug/m3
Q1668-03	IA-B1-3-3252025	Air	Chloromethane	1.24		0.21	1.03	ug/m3
Q1668-03	IA-B1-3-3252025	Air	Trichlorofluoromethane	1.24	J	0.90	2.81	ug/m3
Q1668-03	IA-B1-3-3252025	Air	Heptane	6.15		0.45	2.05	ug/m3
Q1668-03	IA-B1-3-3252025	Air	Acetone	12.3		0.57	1.19	ug/m3
Q1668-03	IA-B1-3-3252025	Air	Methylene Chloride	2.85		0.66	1.74	ug/m3
Q1668-03	IA-B1-3-3252025	Air	Cyclohexane	5.85		0.76	1.72	ug/m3
Q1668-03	IA-B1-3-3252025	Air	2-Butanone	2.27		0.35	1.47	ug/m3
Q1668-03	IA-B1-3-3252025	Air	Carbon Tetrachloride	0.44		0.060	0.19	ug/m3
Q1668-03	IA-B1-3-3252025	Air	2,2,4-Trimethylpentane	0.75	J	0.47	2.34	ug/m3
Q1668-03	IA-B1-3-3252025	Air	Benzene	1.82		0.29	1.60	ug/m3
Q1668-03	IA-B1-3-3252025	Air	Trichloroethene	0.16		0.11	0.16	ug/m3
Q1668-03	IA-B1-3-3252025	Air	4-Methyl-2-Pentanone	62.7	E	0.37	2.05	ug/m3
Q1668-03	IA-B1-3-3252025	Air	Toluene	5.28		0.41	1.88	ug/m3
Q1668-03	IA-B1-3-3252025	Air	Tetrachloroethene	0.34		0.14	0.20	ug/m3
Q1668-03	IA-B1-3-3252025	Air	Ethyl Benzene	4.78		0.52	2.17	ug/m3
Q1668-03	IA-B1-3-3252025	Air	m/p-Xylene	33.5		0.91	4.34	ug/m3
Q1668-03	IA-B1-3-3252025	Air	o-Xylene	11.3		0.52	2.17	ug/m3
Q1668-03	IA-B1-3-3252025	Air	Styrene	3.36		0.47	2.13	ug/m3
Q1668-03	IA-B1-3-3252025	Air	1,3,5-Trimethylbenzene	8.36		0.54	2.46	ug/m3
Q1668-03	IA-B1-3-3252025	Air	1,2,4-Trimethylbenzene	25.6		0.39	2.46	ug/m3
Q1668-03	IA-B1-3-3252025	Air	Naphthalene	2.46		0.42	0.52	ug/m3
Q1668-03	IA-B1-3-3252025	Air	4-Ethyltoluene	6.88		0.59	2.46	ug/m3
Q1668-03	IA-B1-3-3252025	Air	Hexane	8.46		0.39	1.76	ug/m3
Total Voc :					210			
Q1668-03	IA-B1-3-3252025	Air	Pentane, 2,4-dimethyl-	* 2.40	J	0	0	ppbv
Q1668-03	IA-B1-3-3252025	Air	Cyclohexanone	* 3.00	J	0	0	ppbv
Q1668-03	IA-B1-3-3252025	Air	Dodecane	* 2.10	J	0	0	ppbv
Q1668-03	IA-B1-3-3252025	Air	Naphthalene, 1,2,3,4-tetrahydrc	* 1.90	J	0	0	ppbv
Q1668-03	IA-B1-3-3252025	Air	Decane	* 3.60	J	0	0	ppbv
Q1668-03	IA-B1-3-3252025	Air	Hexane, 3-methyl-	* 3.10	J	0	0	ppbv
Q1668-03	IA-B1-3-3252025	Air	Benzene, 1-methyl-3-propyl-	* 1.90	J	0	0	ppbv
Q1668-03	IA-B1-3-3252025	Air	Undecane	* 2.30	J	0	0	ppbv
Q1668-03	IA-B1-3-3252025	Air	Benzene, 2-ethyl-1,3-dimethyl-	* 2.70	J	0	0	ppbv
Q1668-03	IA-B1-3-3252025	Air	Octane, 2-methyl-	* 2.10	J	0	0	ppbv
Q1668-03	IA-B1-3-3252025	Air	Chlorodifluoromethane	* 0.26	J	0.090	0.50	ppbv

Hit Summary Sheet SW-846

SDG No.: Q1668

Client: Woodard & Curran

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q1668-03	IA-B1-3-3252025	Air	Naphthalene,2-methyl-	* 0.32	J	0.15	0.50	ppbv
Q1668-03	IA-B1-3-3252025	Air	Propene	* 0.56	J	0.15	0.50	ppbv
Q1668-03	IA-B1-3-3252025	Air	Isopropylbenzene	* 0.16	J	0.090	0.50	ppbv
Q1668-03	IA-B1-3-3252025	Air	n-propylbenzene	* 0.62	J	0.080	0.50	ppbv
Q1668-03	IA-B1-3-3252025	Air	p-Isopropyltoluene	* 0.12	J	0.090	0.50	ppbv
Q1668-03	IA-B1-3-3252025	Air	n-Butylbenzene	* 0.45	J	0.080	0.50	ppbv
Total Tics :				27.6				
Total Concentration:				238				
Client ID:	IA-B1-3-3252025DL							
Q1668-03DL	IA-B1-3-3252025D	Air	Chloromethane	1.61	JD	0.81	4.13	ug/m3
Q1668-03DL	IA-B1-3-3252025D	Air	Heptane	6.97	JD	1.80	8.20	ug/m3
Q1668-03DL	IA-B1-3-3252025D	Air	Acetone	15.2	D	2.28	4.75	ug/m3
Q1668-03DL	IA-B1-3-3252025D	Air	Methylene Chloride	9.03	D	2.64	6.95	ug/m3
Q1668-03DL	IA-B1-3-3252025D	Air	Cyclohexane	6.54	JD	3.03	6.88	ug/m3
Q1668-03DL	IA-B1-3-3252025D	Air	2-Butanone	2.48	JD	1.42	5.90	ug/m3
Q1668-03DL	IA-B1-3-3252025D	Air	Benzene	2.14	JD	1.12	6.39	ug/m3
Q1668-03DL	IA-B1-3-3252025D	Air	4-Methyl-2-Pentanone	65.6	D	1.52	8.20	ug/m3
Q1668-03DL	IA-B1-3-3252025D	Air	Toluene	5.65	JD	1.66	7.54	ug/m3
Q1668-03DL	IA-B1-3-3252025D	Air	Ethyl Benzene	5.21	JD	2.08	8.69	ug/m3
Q1668-03DL	IA-B1-3-3252025D	Air	m/p-Xylene	36.5	D	3.65	17.4	ug/m3
Q1668-03DL	IA-B1-3-3252025D	Air	o-Xylene	12.2	D	2.08	8.69	ug/m3
Q1668-03DL	IA-B1-3-3252025D	Air	Styrene	3.53	JD	1.87	8.52	ug/m3
Q1668-03DL	IA-B1-3-3252025D	Air	1,3,5-Trimethylbenzene	9.34	JD	2.16	9.83	ug/m3
Q1668-03DL	IA-B1-3-3252025D	Air	1,2,4-Trimethylbenzene	28.0	D	1.52	9.83	ug/m3
Q1668-03DL	IA-B1-3-3252025D	Air	Naphthalene	2.10	D	1.57	2.10	ug/m3
Q1668-03DL	IA-B1-3-3252025D	Air	4-Ethyltoluene	6.88	JD	2.36	9.83	ug/m3
Q1668-03DL	IA-B1-3-3252025D	Air	Hexane	11.3	D	1.55	7.05	ug/m3
Total Voc :				230				
Total Concentration:				230				
Client ID:	IA-B1-1-3252025							
Q1668-04	IA-B1-1-3252025	Air	Dichlorodifluoromethane	2.37	J	1.04	2.47	ug/m3
Q1668-04	IA-B1-1-3252025	Air	Chloromethane	1.38		0.21	1.03	ug/m3
Q1668-04	IA-B1-1-3252025	Air	Trichlorofluoromethane	1.35	J	0.90	2.81	ug/m3
Q1668-04	IA-B1-1-3252025	Air	tert-Butyl alcohol	1.09	J	0.58	1.52	ug/m3
Q1668-04	IA-B1-1-3252025	Air	Heptane	7.79		0.45	2.05	ug/m3
Q1668-04	IA-B1-1-3252025	Air	Acetone	17.3		0.57	1.19	ug/m3
Q1668-04	IA-B1-1-3252025	Air	Methylene Chloride	18.1		0.66	1.74	ug/m3

Hit Summary Sheet
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SDG No.: Q1668

Client: Woodard & Curran

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q1668-04	IA-B1-1-3252025	Air	Cyclohexane	6.20		0.76	1.72	ug/m3
Q1668-04	IA-B1-1-3252025	Air	2-Butanone	2.45		0.35	1.47	ug/m3
Q1668-04	IA-B1-1-3252025	Air	Carbon Tetrachloride	0.44		0.060	0.19	ug/m3
Q1668-04	IA-B1-1-3252025	Air	2,2,4-Trimethylpentane	1.73	J	0.47	2.34	ug/m3
Q1668-04	IA-B1-1-3252025	Air	Benzene	2.46		0.29	1.60	ug/m3
Q1668-04	IA-B1-1-3252025	Air	4-Methyl-2-Pentanone	40.2		0.37	2.05	ug/m3
Q1668-04	IA-B1-1-3252025	Air	Toluene	10.2		0.41	1.88	ug/m3
Q1668-04	IA-B1-1-3252025	Air	Tetrachloroethene	0.34		0.14	0.20	ug/m3
Q1668-04	IA-B1-1-3252025	Air	Ethyl Benzene	11.3		0.52	2.17	ug/m3
Q1668-04	IA-B1-1-3252025	Air	m/p-Xylene	63.4		0.91	4.34	ug/m3
Q1668-04	IA-B1-1-3252025	Air	o-Xylene	26.9		0.52	2.17	ug/m3
Q1668-04	IA-B1-1-3252025	Air	Styrene	2.60		0.47	2.13	ug/m3
Q1668-04	IA-B1-1-3252025	Air	1,3,5-Trimethylbenzene	19.7		0.54	2.46	ug/m3
Q1668-04	IA-B1-1-3252025	Air	1,2,4-Trimethylbenzene	56.0		0.39	2.46	ug/m3
Q1668-04	IA-B1-1-3252025	Air	Naphthalene	2.57		0.42	0.52	ug/m3
Q1668-04	IA-B1-1-3252025	Air	4-Ethyltoluene	15.7		0.59	2.46	ug/m3
Q1668-04	IA-B1-1-3252025	Air	Hexane	16.9		0.39	1.76	ug/m3
Total Voc :					328			
Q1668-04	IA-B1-1-3252025	Air	Dodecane	* 3.70	J	0	0	ppbv
Q1668-04	IA-B1-1-3252025	Air	Naphthalene, 1,2,3,4-tetrahydrc	* 4.50	J	0	0	ppbv
Q1668-04	IA-B1-1-3252025	Air	Indane	* 3.60	J	0	0	ppbv
Q1668-04	IA-B1-1-3252025	Air	Hexane, 3-methyl-	* 4.20	J	0	0	ppbv
Q1668-04	IA-B1-1-3252025	Air	1-Phenyl-1-butene	* 3.90	J	0	0	ppbv
Q1668-04	IA-B1-1-3252025	Air	Benzene, 1-ethyl-2,3-dimethyl-	* 5.60	J	0	0	ppbv
Q1668-04	IA-B1-1-3252025	Air	Benzene, 1-methyl-3-propyl-	* 3.90	J	0	0	ppbv
Q1668-04	IA-B1-1-3252025	Air	Undecane	* 4.70	J	0	0	ppbv
Q1668-04	IA-B1-1-3252025	Air	Naphthalene, 1,2,3,4-tetrahydrc	* 3.40	J	0	0	ppbv
Q1668-04	IA-B1-1-3252025	Air	Octane, 2-methyl-	* 5.10	J	0	0	ppbv
Q1668-04	IA-B1-1-3252025	Air	Chlorodifluoromethane	* 0.28	J	0.090	0.50	ppbv
Q1668-04	IA-B1-1-3252025	Air	Naphthalene,2-methyl-	* 0.34	J	0.15	0.50	ppbv
Q1668-04	IA-B1-1-3252025	Air	Propene	* 0.82	J	0.15	0.50	ppbv
Q1668-04	IA-B1-1-3252025	Air	Isopropylbenzene	* 0.36	J	0.090	0.50	ppbv
Q1668-04	IA-B1-1-3252025	Air	n-propylbenzene	* 1.50	J	0.080	0.50	ppbv
Q1668-04	IA-B1-1-3252025	Air	sec-Butylbenzene	* 0.20	J	0.090	0.50	ppbv
Q1668-04	IA-B1-1-3252025	Air	p-Isopropyltoluene	* 0.17	J	0.090	0.50	ppbv
Q1668-04	IA-B1-1-3252025	Air	n-Butylbenzene	* 0.98	J	0.080	0.50	ppbv

Hit Summary Sheet
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SDG No.: Q1668

Client: Woodard & Curran

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Total Tics :				47.3				
Total Concentration:				376				

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 03/26/25

Field Id Number : IA-B1-4-3252025

Analysis Date : 04/17/25

Laboratory Id Number : Q1668-01

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.46	J	2.27		
Chloromethane	74-87-3	50.49	0.53		1.09		
Vinyl Chloride	75-01-4	62.5	0.01	U	0.03		
Bromomethane	74-83-9	94.94	0.14	U	0.54		
Chloroethane	75-00-3	64.52	0.17	U	0.45		
Tetrahydrofuran	109-99-9	72.11	0.13	U	0.38		
Trichlorofluoromethane	75-69-4	137.4	0.24	J	1.35		
Dichlorotetrafluoroethane	76-14-2	170.9	0.09	U	0.63		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.16	U	1.23		
tert-Butyl alcohol	75-65-0	74.12	0.19	U	0.58		
Heptane	142-82-5	100.2	1.9		7.79		
1,1-Dichloroethene	75-35-4	96.94	0.14	U	0.56		
Acetone	67-64-1	58.08	5.3		12.6		
Carbon Disulfide	75-15-0	76.14	0.63		1.96		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.12	U	0.43		
Methylene Chloride	75-09-2	84.94	2.8		9.73		
trans-1,2-Dichloroethene	156-60-5	96.94	0.19	U	0.75		
1,1-Dichloroethane	75-34-3	98.96	0.13	U	0.53		
Cyclohexane	110-82-7	84.16	3.3		11.4		
2-Butanone	78-93-3	72.11	0.69		2.04		
Carbon Tetrachloride	56-23-5	153.8	0.08		0.5		
cis-1,2-Dichloroethene	156-59-2	96.94	0.09	U	0.36		
Chloroform	67-66-3	119.4	0.08	U	0.39		
1,1,1-Trichloroethane	71-55-6	133.4	0.01	U	0.05		
2,2,4-Trimethylpentane	540-84-1	114.2	0.19	J	0.89		
Benzene	71-43-2	78.11	0.56		1.79		
1,2-Dichloroethane	107-06-2	98.96	0.09	U	0.36		
Trichloroethene	79-01-6	131.4	0.02	U	0.11		
1,2-Dichloropropane	78-87-5	113	0.11	U	0.51		
Bromodichloromethane	75-27-4	163.8	0.08	U	0.54		
4-Methyl-2-Pentanone	108-10-1	100.2	19.6	E	80.3		
Toluene	108-88-3	92.14	1.6		6.03		
t-1,3-Dichloropropene	10061-02-6	111	0.06	U	0.27		
cis-1,3-Dichloropropene	10061-01-5	111	0.06	U	0.27		
1,1,2-Trichloroethane	79-00-5	133.4	0.07	U	0.38		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 03/26/25

Field Id Number : IA-B1-4-3252025

Analysis Date : 04/17/25

Laboratory Id Number : Q1668-01

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.07	U	0.6		
1,2-Dibromoethane	106-93-4	187.9	0.07	U	0.54		
Tetrachloroethene	127-18-4	165.8	0.05		0.34		
Chlorobenzene	108-90-7	112.6	0.08	U	0.37		
Ethyl Benzene	100-41-4	106.2	0.94		4.08		
m/p-Xylene	179601-23-1	106.2	9.4		40.8		
o-Xylene	95-47-6	106.2	2		8.69		
Styrene	100-42-5	104.1	1.6		6.81		
Bromoform	75-25-2	252.8	0.06	U	0.62		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.01	U	0.07		
2-Chlorotoluene	95-49-8	126.6	0.11	U	0.57		
1,3,5-Trimethylbenzene	108-67-8	120.2	1.3		6.39		
1,2,4-Trimethylbenzene	95-63-6	120.2	3.8		18.7		
1,3-Dichlorobenzene	541-73-1	147	0.08	U	0.48		
1,4-Dichlorobenzene	106-46-7	147	0.05	U	0.3		
1,2-Dichlorobenzene	95-50-1	147	0.08	U	0.48		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.09	U	0.67		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.09	U	0.96		
Naphthalene	91-20-3	128.17	0.6		3.15		
1,3-Butadiene	106-99-0	54.09	0.13	U	0.29		
4-Ethyltoluene	622-96-8	120.2	1		4.92		
Hexane	110-54-3	86.17	3		10.6		
Allyl Chloride	107-05-1	76.53	0.15	U	0.47		
1,4-Dioxane	123-91-1	88.12	0.21	U	0.76		
Methyl Methacrylate	80-62-6	100.117	0.09	U	0.37		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 03/26/25

Field Id Number : IA-B1-4-3252025DL

Analysis Date : 04/18/25

Laboratory Id Number : Q1668-01DL

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.84	UD	4.15		
Chloromethane	74-87-3	50.49	0.79	JD	1.63		
Vinyl Chloride	75-01-4	62.5	0.06	UD	0.15		
Bromomethane	74-83-9	94.94	0.56	UD	2.17		
Chloroethane	75-00-3	64.52	0.68	UD	1.79		
Tetrahydrofuran	109-99-9	72.11	0.52	UD	1.53		
Trichlorofluoromethane	75-69-4	137.4	0.64	UD	3.6		
Dichlorotetrafluoroethane	76-14-2	170.9	0.35	UD	2.45		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.64	UD	4.91		
tert-Butyl alcohol	75-65-0	74.12	0.76	UD	2.3		
Heptane	142-82-5	100.2	2.2	D	9.02		
1,1-Dichloroethene	75-35-4	96.94	0.56	UD	2.22		
Acetone	67-64-1	58.08	6.6	D	15.7		
Carbon Disulfide	75-15-0	76.14	0.64	UD	1.99		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.48	UD	1.73		
Methylene Chloride	75-09-2	84.94	4.9	D	17.0		
trans-1,2-Dichloroethene	156-60-5	96.94	0.76	UD	3.01		
1,1-Dichloroethane	75-34-3	98.96	0.52	UD	2.1		
Cyclohexane	110-82-7	84.16	3.9	D	13.4		
2-Butanone	78-93-3	72.11	0.9	JD	2.65		
Carbon Tetrachloride	56-23-5	153.8	0.04	UD	0.25		
cis-1,2-Dichloroethene	156-59-2	96.94	0.36	UD	1.43		
Chloroform	67-66-3	119.4	0.33	UD	1.61		
1,1,1-Trichloroethane	71-55-6	133.4	0.04	UD	0.22		
2,2,4-Trimethylpentane	540-84-1	114.2	0.4	UD	1.87		
Benzene	71-43-2	78.11	0.69	JD	2.2		
1,2-Dichloroethane	107-06-2	98.96	0.36	UD	1.46		
Trichloroethene	79-01-6	131.4	0.07	UD	0.38		
1,2-Dichloropropane	78-87-5	113	0.44	UD	2.03		
Bromodichloromethane	75-27-4	163.8	0.31	UD	2.08		
4-Methyl-2-Pentanone	108-10-1	100.2	20.7	D	84.8		
Toluene	108-88-3	92.14	1.8	JD	6.78		
t-1,3-Dichloropropene	10061-02-6	111	0.24	UD	1.09		
cis-1,3-Dichloropropene	10061-01-5	111	0.26	UD	1.18		
1,1,2-Trichloroethane	79-00-5	133.4	0.28	UD	1.53		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 03/26/25

Field Id Number : IA-B1-4-3252025DL

Analysis Date : 04/18/25

Laboratory Id Number : Q1668-01DL

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.26	UD	2.22		
1,2-Dibromoethane	106-93-4	187.9	0.29	UD	2.23		
Tetrachloroethene	127-18-4	165.8	0.06	UD	0.41		
Chlorobenzene	108-90-7	112.6	0.3	UD	1.38		
Ethyl Benzene	100-41-4	106.2	1	JD	4.34		
m/p-Xylene	179601-23-1	106.2	10.1	D	43.9		
o-Xylene	95-47-6	106.2	2.1	D	9.12		
Styrene	100-42-5	104.1	1.7	JD	7.24		
Bromoform	75-25-2	252.8	0.23	UD	2.38		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.04	UD	0.27		
2-Chlorotoluene	95-49-8	126.6	0.44	UD	2.28		
1,3,5-Trimethylbenzene	108-67-8	120.2	1.3	JD	6.39		
1,2,4-Trimethylbenzene	95-63-6	120.2	4.2	D	20.6		
1,3-Dichlorobenzene	541-73-1	147	0.32	UD	1.92		
1,4-Dichlorobenzene	106-46-7	147	0.21	UD	1.26		
1,2-Dichlorobenzene	95-50-1	147	0.3	UD	1.8		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.34	UD	2.52		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.34	UD	3.63		
Naphthalene	91-20-3	128.17	0.61	D	3.2		
1,3-Butadiene	106-99-0	54.09	0.52	UD	1.15		
4-Ethyltoluene	622-96-8	120.2	1.2	JD	5.9		
Hexane	110-54-3	86.17	4.2	D	14.8		
Allyl Chloride	107-05-1	76.53	0.6	UD	1.88		
1,4-Dioxane	123-91-1	88.12	0.84	UD	3.03		
Methyl Methacrylate	80-62-6	100.117	0.34	UD	1.39		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 03/26/25

Field Id Number : IA-B1-2-3252025

Analysis Date : 04/17/25

Laboratory Id Number : Q1668-02

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.44	J	2.18		
Chloromethane	74-87-3	50.49	0.53		1.09		
Vinyl Chloride	75-01-4	62.5	0.01	U	0.03		
Bromomethane	74-83-9	94.94	0.14	U	0.54		
Chloroethane	75-00-3	64.52	0.17	U	0.45		
Tetrahydrofuran	109-99-9	72.11	0.13	U	0.38		
Trichlorofluoromethane	75-69-4	137.4	0.22	J	1.24		
Dichlorotetrafluoroethane	76-14-2	170.9	0.09	U	0.63		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.16	U	1.23		
tert-Butyl alcohol	75-65-0	74.12	0.22	J	0.67		
Heptane	142-82-5	100.2	1.3		5.33		
1,1-Dichloroethene	75-35-4	96.94	0.14	U	0.56		
Acetone	67-64-1	58.08	5.4		12.8		
Carbon Disulfide	75-15-0	76.14	0.16	U	0.5		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.12	U	0.43		
Methylene Chloride	75-09-2	84.94	1.4		4.86		
trans-1,2-Dichloroethene	156-60-5	96.94	0.19	U	0.75		
1,1-Dichloroethane	75-34-3	98.96	0.13	U	0.53		
Cyclohexane	110-82-7	84.16	1.1		3.79		
2-Butanone	78-93-3	72.11	0.58		1.71		
Carbon Tetrachloride	56-23-5	153.8	0.07		0.44		
cis-1,2-Dichloroethene	156-59-2	96.94	0.09	U	0.36		
Chloroform	67-66-3	119.4	0.08	U	0.39		
1,1,1-Trichloroethane	71-55-6	133.4	0.01	U	0.05		
2,2,4-Trimethylpentane	540-84-1	114.2	0.22	J	1.03		
Benzene	71-43-2	78.11	0.52		1.66		
1,2-Dichloroethane	107-06-2	98.96	0.09	U	0.36		
Trichloroethene	79-01-6	131.4	0.02	U	0.11		
1,2-Dichloropropane	78-87-5	113	0.11	U	0.51		
Bromodichloromethane	75-27-4	163.8	0.08	U	0.54		
4-Methyl-2-Pentanone	108-10-1	100.2	11.7		48.0		
Toluene	108-88-3	92.14	1.4		5.28		
t-1,3-Dichloropropene	10061-02-6	111	0.06	U	0.27		
cis-1,3-Dichloropropene	10061-01-5	111	0.06	U	0.27		
1,1,2-Trichloroethane	79-00-5	133.4	0.07	U	0.38		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 03/26/25

Field Id Number : IA-B1-2-3252025

Analysis Date : 04/17/25

Laboratory Id Number : Q1668-02

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.07	U	0.6		
1,2-Dibromoethane	106-93-4	187.9	0.07	U	0.54		
Tetrachloroethene	127-18-4	165.8	0.03		0.2		
Chlorobenzene	108-90-7	112.6	0.08	U	0.37		
Ethyl Benzene	100-41-4	106.2	0.95		4.13		
m/p-Xylene	179601-23-1	106.2	5.9		25.6		
o-Xylene	95-47-6	106.2	2.3		9.99		
Styrene	100-42-5	104.1	0.47	J	2		
Bromoform	75-25-2	252.8	0.06	U	0.62		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.01	U	0.07		
2-Chlorotoluene	95-49-8	126.6	0.11	U	0.57		
1,3,5-Trimethylbenzene	108-67-8	120.2	1.8		8.85		
1,2,4-Trimethylbenzene	95-63-6	120.2	5.4		26.6		
1,3-Dichlorobenzene	541-73-1	147	0.08	U	0.48		
1,4-Dichlorobenzene	106-46-7	147	0.05	U	0.3		
1,2-Dichlorobenzene	95-50-1	147	0.08	U	0.48		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.09	U	0.67		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.09	U	0.96		
Naphthalene	91-20-3	128.17	0.47		2.46		
1,3-Butadiene	106-99-0	54.09	0.13	U	0.29		
4-Ethyltoluene	622-96-8	120.2	1.3		6.39		
Hexane	110-54-3	86.17	2.7		9.52		
Allyl Chloride	107-05-1	76.53	0.15	U	0.47		
1,4-Dioxane	123-91-1	88.12	0.21	U	0.76		
Methyl Methacrylate	80-62-6	100.117	0.09	U	0.37		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 03/26/25

Field Id Number : IA-B1-3-3252025

Analysis Date : 04/17/25

Laboratory Id Number : Q1668-03

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.44	J	2.18		
Chloromethane	74-87-3	50.49	0.6		1.24		
Vinyl Chloride	75-01-4	62.5	0.01	U	0.03		
Bromomethane	74-83-9	94.94	0.14	U	0.54		
Chloroethane	75-00-3	64.52	0.17	U	0.45		
Tetrahydrofuran	109-99-9	72.11	0.13	U	0.38		
Trichlorofluoromethane	75-69-4	137.4	0.22	J	1.24		
Dichlorotetrafluoroethane	76-14-2	170.9	0.09	U	0.63		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.16	U	1.23		
tert-Butyl alcohol	75-65-0	74.12	0.19	U	0.58		
Heptane	142-82-5	100.2	1.5		6.15		
1,1-Dichloroethene	75-35-4	96.94	0.14	U	0.56		
Acetone	67-64-1	58.08	5.2		12.4		
Carbon Disulfide	75-15-0	76.14	0.16	U	0.5		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.12	U	0.43		
Methylene Chloride	75-09-2	84.94	0.82		2.85		
trans-1,2-Dichloroethene	156-60-5	96.94	0.19	U	0.75		
1,1-Dichloroethane	75-34-3	98.96	0.13	U	0.53		
Cyclohexane	110-82-7	84.16	1.7		5.85		
2-Butanone	78-93-3	72.11	0.77		2.27		
Carbon Tetrachloride	56-23-5	153.8	0.07		0.44		
cis-1,2-Dichloroethene	156-59-2	96.94	0.09	U	0.36		
Chloroform	67-66-3	119.4	0.08	U	0.39		
1,1,1-Trichloroethane	71-55-6	133.4	0.01	U	0.05		
2,2,4-Trimethylpentane	540-84-1	114.2	0.16	J	0.75		
Benzene	71-43-2	78.11	0.57		1.82		
1,2-Dichloroethane	107-06-2	98.96	0.09	U	0.36		
Trichloroethene	79-01-6	131.4	0.03		0.16		
1,2-Dichloropropane	78-87-5	113	0.11	U	0.51		
Bromodichloromethane	75-27-4	163.8	0.08	U	0.54		
4-Methyl-2-Pentanone	108-10-1	100.2	15.3	E	62.7		
Toluene	108-88-3	92.14	1.4		5.28		
t-1,3-Dichloropropene	10061-02-6	111	0.06	U	0.27		
cis-1,3-Dichloropropene	10061-01-5	111	0.06	U	0.27		
1,1,2-Trichloroethane	79-00-5	133.4	0.07	U	0.38		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 03/26/25

Field Id Number : IA-B1-3-3252025

Analysis Date : 04/17/25

Laboratory Id Number : Q1668-03

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.07	U	0.6		
1,2-Dibromoethane	106-93-4	187.9	0.07	U	0.54		
Tetrachloroethene	127-18-4	165.8	0.05		0.34		
Chlorobenzene	108-90-7	112.6	0.08	U	0.37		
Ethyl Benzene	100-41-4	106.2	1.1		4.78		
m/p-Xylene	179601-23-1	106.2	7.7		33.4		
o-Xylene	95-47-6	106.2	2.6		11.3		
Styrene	100-42-5	104.1	0.79		3.36		
Bromoform	75-25-2	252.8	0.06	U	0.62		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.01	U	0.07		
2-Chlorotoluene	95-49-8	126.6	0.11	U	0.57		
1,3,5-Trimethylbenzene	108-67-8	120.2	1.7		8.36		
1,2,4-Trimethylbenzene	95-63-6	120.2	5.2		25.6		
1,3-Dichlorobenzene	541-73-1	147	0.08	U	0.48		
1,4-Dichlorobenzene	106-46-7	147	0.05	U	0.3		
1,2-Dichlorobenzene	95-50-1	147	0.08	U	0.48		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.09	U	0.67		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.09	U	0.96		
Naphthalene	91-20-3	128.17	0.47		2.46		
1,3-Butadiene	106-99-0	54.09	0.13	U	0.29		
4-Ethyltoluene	622-96-8	120.2	1.4		6.88		
Hexane	110-54-3	86.17	2.4		8.46		
Allyl Chloride	107-05-1	76.53	0.15	U	0.47		
1,4-Dioxane	123-91-1	88.12	0.21	U	0.76		
Methyl Methacrylate	80-62-6	100.117	0.09	U	0.37		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 03/26/25

Field Id Number : IA-B1-3-3252025DL

Analysis Date : 04/18/25

Laboratory Id Number : Q1668-03DL

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.84	UD	4.15		
Chloromethane	74-87-3	50.49	0.78	JD	1.61		
Vinyl Chloride	75-01-4	62.5	0.06	UD	0.15		
Bromomethane	74-83-9	94.94	0.56	UD	2.17		
Chloroethane	75-00-3	64.52	0.68	UD	1.79		
Tetrahydrofuran	109-99-9	72.11	0.52	UD	1.53		
Trichlorofluoromethane	75-69-4	137.4	0.64	UD	3.6		
Dichlorotetrafluoroethane	76-14-2	170.9	0.35	UD	2.45		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.64	UD	4.91		
tert-Butyl alcohol	75-65-0	74.12	0.76	UD	2.3		
Heptane	142-82-5	100.2	1.7	JD	6.97		
1,1-Dichloroethene	75-35-4	96.94	0.56	UD	2.22		
Acetone	67-64-1	58.08	6.4	D	15.2		
Carbon Disulfide	75-15-0	76.14	0.64	UD	1.99		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.48	UD	1.73		
Methylene Chloride	75-09-2	84.94	2.6	D	9.03		
trans-1,2-Dichloroethene	156-60-5	96.94	0.76	UD	3.01		
1,1-Dichloroethane	75-34-3	98.96	0.52	UD	2.1		
Cyclohexane	110-82-7	84.16	1.9	JD	6.54		
2-Butanone	78-93-3	72.11	0.84	JD	2.48		
Carbon Tetrachloride	56-23-5	153.8	0.04	UD	0.25		
cis-1,2-Dichloroethene	156-59-2	96.94	0.36	UD	1.43		
Chloroform	67-66-3	119.4	0.33	UD	1.61		
1,1,1-Trichloroethane	71-55-6	133.4	0.04	UD	0.22		
2,2,4-Trimethylpentane	540-84-1	114.2	0.4	UD	1.87		
Benzene	71-43-2	78.11	0.67	JD	2.14		
1,2-Dichloroethane	107-06-2	98.96	0.36	UD	1.46		
Trichloroethene	79-01-6	131.4	0.07	UD	0.38		
1,2-Dichloropropane	78-87-5	113	0.44	UD	2.03		
Bromodichloromethane	75-27-4	163.8	0.31	UD	2.08		
4-Methyl-2-Pentanone	108-10-1	100.2	16	D	65.6		
Toluene	108-88-3	92.14	1.5	JD	5.65		
t-1,3-Dichloropropene	10061-02-6	111	0.24	UD	1.09		
cis-1,3-Dichloropropene	10061-01-5	111	0.26	UD	1.18		
1,1,2-Trichloroethane	79-00-5	133.4	0.28	UD	1.53		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 03/26/25

Field Id Number : IA-B1-3-3252025DL

Analysis Date : 04/18/25

Laboratory Id Number : Q1668-03DL

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.26	UD	2.22		
1,2-Dibromoethane	106-93-4	187.9	0.29	UD	2.23		
Tetrachloroethene	127-18-4	165.8	0.06	UD	0.41		
Chlorobenzene	108-90-7	112.6	0.3	UD	1.38		
Ethyl Benzene	100-41-4	106.2	1.2	JD	5.21		
m/p-Xylene	179601-23-1	106.2	8.4	D	36.5		
o-Xylene	95-47-6	106.2	2.8	D	12.2		
Styrene	100-42-5	104.1	0.83	JD	3.53		
Bromoform	75-25-2	252.8	0.23	UD	2.38		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.04	UD	0.27		
2-Chlorotoluene	95-49-8	126.6	0.44	UD	2.28		
1,3,5-Trimethylbenzene	108-67-8	120.2	1.9	JD	9.34		
1,2,4-Trimethylbenzene	95-63-6	120.2	5.7	D	28.0		
1,3-Dichlorobenzene	541-73-1	147	0.32	UD	1.92		
1,4-Dichlorobenzene	106-46-7	147	0.21	UD	1.26		
1,2-Dichlorobenzene	95-50-1	147	0.3	UD	1.8		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.34	UD	2.52		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.34	UD	3.63		
Naphthalene	91-20-3	128.17	0.4	D	2.1		
1,3-Butadiene	106-99-0	54.09	0.52	UD	1.15		
4-Ethyltoluene	622-96-8	120.2	1.4	JD	6.88		
Hexane	110-54-3	86.17	3.2	D	11.3		
Allyl Chloride	107-05-1	76.53	0.6	UD	1.88		
1,4-Dioxane	123-91-1	88.12	0.84	UD	3.03		
Methyl Methacrylate	80-62-6	100.117	0.34	UD	1.39		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 03/26/25

Field Id Number : IA-B1-1-3252025

Analysis Date : 04/17/25

Laboratory Id Number : Q1668-04

Target Analyts : Air Results

Chemical	Cas Number	Molecular Weight	Insert Results in PPBV	Qualifier	Generate Results in ug/m3	QAS Decision	Foot Notes
Dichlorodifluoromethane	75-71-8	120.9	0.48	J	2.37		
Chloromethane	74-87-3	50.49	0.67		1.38		
Vinyl Chloride	75-01-4	62.5	0.01	U	0.03		
Bromomethane	74-83-9	94.94	0.14	U	0.54		
Chloroethane	75-00-3	64.52	0.17	U	0.45		
Tetrahydrofuran	109-99-9	72.11	0.13	U	0.38		
Trichlorofluoromethane	75-69-4	137.4	0.24	J	1.35		
Dichlorotetrafluoroethane	76-14-2	170.9	0.09	U	0.63		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.16	U	1.23		
tert-Butyl alcohol	75-65-0	74.12	0.36	J	1.09		
Heptane	142-82-5	100.2	1.9		7.79		
1,1-Dichloroethene	75-35-4	96.94	0.14	U	0.56		
Acetone	67-64-1	58.08	7.3		17.3		
Carbon Disulfide	75-15-0	76.14	0.16	U	0.5		
Methyl tert-Butyl Ether	1634-04-4	88.15	0.12	U	0.43		
Methylene Chloride	75-09-2	84.94	5.2		18.1		
trans-1,2-Dichloroethene	156-60-5	96.94	0.19	U	0.75		
1,1-Dichloroethane	75-34-3	98.96	0.13	U	0.53		
Cyclohexane	110-82-7	84.16	1.8		6.2		
2-Butanone	78-93-3	72.11	0.83		2.45		
Carbon Tetrachloride	56-23-5	153.8	0.07		0.44		
cis-1,2-Dichloroethene	156-59-2	96.94	0.09	U	0.36		
Chloroform	67-66-3	119.4	0.08	U	0.39		
1,1,1-Trichloroethane	71-55-6	133.4	0.01	U	0.05		
2,2,4-Trimethylpentane	540-84-1	114.2	0.37	J	1.73		
Benzene	71-43-2	78.11	0.77		2.46		
1,2-Dichloroethane	107-06-2	98.96	0.09	U	0.36		
Trichloroethene	79-01-6	131.4	0.02	U	0.11		
1,2-Dichloropropane	78-87-5	113	0.11	U	0.51		
Bromodichloromethane	75-27-4	163.8	0.08	U	0.54		
4-Methyl-2-Pentanone	108-10-1	100.2	9.8		40.2		
Toluene	108-88-3	92.14	2.7		10.2		
t-1,3-Dichloropropene	10061-02-6	111	0.06	U	0.27		
cis-1,3-Dichloropropene	10061-01-5	111	0.06	U	0.27		
1,1,2-Trichloroethane	79-00-5	133.4	0.07	U	0.38		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 03/26/25

Field Id Number : IA-B1-1-3252025

Analysis Date : 04/17/25

Laboratory Id Number : Q1668-04

Target Analyts : Air Results

Dibromochloromethane	124-48-1	208.3	0.07	U	0.6		
1,2-Dibromoethane	106-93-4	187.9	0.07	U	0.54		
Tetrachloroethene	127-18-4	165.8	0.05		0.34		
Chlorobenzene	108-90-7	112.6	0.08	U	0.37		
Ethyl Benzene	100-41-4	106.2	2.6		11.3		
m/p-Xylene	179601-23-1	106.2	14.6		63.4		
o-Xylene	95-47-6	106.2	6.2		26.9		
Styrene	100-42-5	104.1	0.61		2.6		
Bromoform	75-25-2	252.8	0.06	U	0.62		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.01	U	0.07		
2-Chlorotoluene	95-49-8	126.6	0.11	U	0.57		
1,3,5-Trimethylbenzene	108-67-8	120.2	4		19.7		
1,2,4-Trimethylbenzene	95-63-6	120.2	11.4		56.0		
1,3-Dichlorobenzene	541-73-1	147	0.08	U	0.48		
1,4-Dichlorobenzene	106-46-7	147	0.05	U	0.3		
1,2-Dichlorobenzene	95-50-1	147	0.08	U	0.48		
1,2,4-Trichlorobenzene	120-82-1	181.5	0.09	U	0.67		
Hexachloro-1,3-Butadiene	87-68-3	260.8	0.09	U	0.96		
Naphthalene	91-20-3	128.17	0.49		2.57		
1,3-Butadiene	106-99-0	54.09	0.13	U	0.29		
4-Ethyltoluene	622-96-8	120.2	3.2		15.7		
Hexane	110-54-3	86.17	4.8		16.9		
Allyl Chloride	107-05-1	76.53	0.15	U	0.47		
1,4-Dioxane	123-91-1	88.12	0.21	U	0.76		
Methyl Methacrylate	80-62-6	100.117	0.09	U	0.37		

Method	Matrix	Parameter	Spike_Amt_ Added	Calculated MDL	MB Data	MB Datafile	New MDL TO Be Used	MDL Unit
TO-15	Air	1,1,1,2-Tetrachloroethane	0.4	0.090683682	0		0.091	ppbv
TO-15	Air	1,1,1-Trichloroethane	0.03	0.00947589	0		0.0095	ppbv
TO-15	Air	1,1,2,2-Tetrachloroethane	0.03	0.010183321	0		0.011	ppbv
TO-15	Air	1,1,2-Trichloroethane	0.4	0.070112514	0		0.071	ppbv
TO-15	Air	1,1,2-Trichlorotrifluoroethane	0.4	0.155560652	0		0.16	ppbv
TO-15	Air	1,1-Dichloroethane	0.4	0.122378743	0		0.13	ppbv
TO-15	Air	1,1-Dichloroethene	0.4	0.139735617	0		0.14	ppbv
TO-15	Air	1,2,4-Trichlorobenzene	0.4	0.084677012	0		0.085	ppbv
TO-15	Air	1,2,4-Trimethylbenzene	0.4	0.077496367	0		0.078	ppbv
TO-15	Air	1,2-Dibromoethane	0.4	0.071318853	0		0.072	ppbv
TO-15	Air	1,2-Dichlorobenzene	0.4	0.074250332	0		0.075	ppbv
TO-15	Air	1,2-Dichloroethane	0.4	0.090890005	0		0.091	ppbv
TO-15	Air	1,2-Dichloropropane	0.4	0.073346868	0.109	VL038919.D	0.11	ppbv
TO-15	Air	1,3,5-Trimethylbenzene	0.4	0.101198372	0		0.11	ppbv
TO-15	Air	1,3-Butadiene	0.4	0.124009143	0		0.13	ppbv
TO-15	Air	1,3-Dichlorobenzene	0.4	0.079013305	0		0.08	ppbv
TO-15	Air	1,4-Dichlorobenzene	0.4	0.052746151	0		0.053	ppbv
TO-15	Air	1,4-Dioxane	0.4	0.202123585	0		0.21	ppbv
TO-15	Air	2,2,4-Trimethylpentane	0.4	0.09988427	0		0.10	ppbv
TO-15	Air	2-Butanone	0.4	0.118687999	0		0.12	ppbv
TO-15	Air	2-Chlorotoluene	0.4	0.104141644	0		0.11	ppbv
TO-15	Air	2-Hexanone	0.4	0.080656229	0		0.081	ppbv
TO-15	Air	4-Ethyltoluene	0.4	0.112037051	0		0.12	ppbv
TO-15	Air	4-Methyl-2-Pentanone	0.4	0.092836933	0		0.093	ppbv
TO-15	Air	Acetone	0.4	0.234416891	0		0.24	ppbv
TO-15	Air	Allyl Chloride	0.4	0.145618654	0		0.15	ppbv
TO-15	Air	Benzene	0.4	0.086407689	0		0.087	ppbv
TO-15	Air	Benzyl Chloride	0.4	0.173895169	0		0.18	ppbv
TO-15	Air	Bromodichloromethane	0.4	0.076780313	0		0.077	ppbv
TO-15	Air	Bromoethene	0.4	0.115560124	0		0.12	ppbv
TO-15	Air	Bromoform	0.4	0.056947551	0		0.057	ppbv
TO-15	Air	Bromomethane	0.4	0.137678239	0		0.14	ppbv
TO-15	Air	Carbon Disulfide	0.4	0.157343925	0		0.16	ppbv
TO-15	Air	Carbon Tetrachloride	0.03	0.010617308	0		0.011	ppbv
TO-15	Air	Chlorobenzene	0.4	0.075202602	0		0.076	ppbv
TO-15	Air	Chlorodifluoromethane	0.4	0.087466815	0		0.088	ppbv
TO-15	Air	Chloroethane	0.4	0.163530318	0		0.17	ppbv
TO-15	Air	Chloroform	0.4	0.082232394	0		0.083	ppbv
TO-15	Air	Chloromethane	0.4	0.097292998	0		0.098	ppbv
TO-15	Air	cis-1,2-Dichloroethene	0.4	0.088332535	0		0.089	ppbv
TO-15	Air	cis-1,3-Dichloropropene	0.4	0.063248763	0		0.064	ppbv
TO-15	Air	Cyclohexane	0.4	0.217999816	0		0.22	ppbv
TO-15	Air	Dibromochloromethane	0.4	0.065703935	0		0.066	ppbv
TO-15	Air	Dichlorodifluoromethane	0.4	0.20957733	0		0.21	ppbv
TO-15	Air	Dichlorotetrafluoroethane	0.4	0.087348046	0		0.088	ppbv
TO-15	Air	Ethyl Acetate	0.4	0.078161123	0		0.079	ppbv
TO-15	Air	Ethyl Benzene	0.4	0.115413562	0		0.12	ppbv
TO-15	Air	Heptane	0.4	0.100800637	0		0.11	ppbv
TO-15	Air	Hexachloro-1,3-Butadiene	0.4	0.084169773	0		0.085	ppbv
TO-15	Air	Hexane	0.4	0.106485082	0		0.11	ppbv
TO-15	Air	Isopropyl Alcohol	0.4	0.068329134	0		0.069	ppbv
TO-15	Air	Isopropylbenzene	0.4	0.086744608	0		0.087	ppbv
TO-15	Air	m/p-Xylene	0.4	0.205831125	0		0.21	ppbv
TO-15	Air	Methyl Methacrylate	0.4	0.085528753	0		0.086	ppbv
TO-15	Air	Methyl tert-Butyl Ether	0.4	0.119546728	0		0.12	ppbv
TO-15	Air	Methylene Chloride	0.4	0.18405265	0.11	VL039022.D	0.19	ppbv
TO-15	Air	Naphthalene	0.4	0.074961199	0		0.075	ppbv
TO-15	Air	Naphthalene,2-methyl-	0.4	0.148496389	0		0.15	ppbv
TO-15	Air	n-Butylbenzene	0.4	0.08201719	0		0.083	ppbv
TO-15	Air	n-propylbenzene	0.4	0.0778963	0		0.078	ppbv
TO-15	Air	o-Xylene	0.4	0.117630235	0		0.12	ppbv
TO-15	Air	p-Isopropyltoluene	0.4	0.085704866	0		0.086	ppbv
TO-15	Air	Propene	0.4	0.143790814	0.14	VL039337.D	0.15	ppbv
TO-15	Air	sec-Butylbenzene	0.4	0.093164076	0		0.094	ppbv
TO-15	Air	Styrene	0.4	0.109444442	0		0.11	ppbv
TO-15	Air	t-1,3-Dichloropropene	0.4	0.059734415	0		0.06	ppbv
TO-15	Air	tert-Butyl alcohol	0.4	0.187711954	0		0.19	ppbv
TO-15	Air	tert-Butylbenzene	0.4	0.092760327	0		0.093	ppbv
TO-15	Air	Tetrachloroethene	0.03	0.014462962	0		0.015	ppbv
TO-15	Air	Tetrahydrofuran	0.4	0.122655048	0		0.13	ppbv
TO-15	Air	Toluene	0.4	0.109284	0		0.11	ppbv
TO-15	Air	trans-1,2-Dichloroethene	0.4	0.185264638	0		0.19	ppbv
TO-15	Air	Trichloroethene	0.03	0.016558175	0		0.017	ppbv
TO-15	Air	Trichlorofluoromethane	0.4	0.157465794	0		0.16	ppbv
TO-15	Air	Vinyl Acetate	0.4	0.152371485	0		0.16	ppbv
TO-15	Air	Vinyl Chloride	0.03	0.013585954	0		0.014	ppbv
TO-15	Air	Ethanol	0.4	0.317031286	0		0.32	ug/L

StddevVal	StudentsT Value	Instrument ID	Datafile1	Concentration1	Adate1	Datafile2	Concentration2
0.03485153	2.602	MSVOA_L	VL038602.D	0.51	03142022T18:52:00	VL038645.D	0.494
0.003641772	2.602	MSVOA_L	VL038599.D	0.03	03142022T17:01:00	VL038658.D	0.029
0.003913651	2.602	MSVOA_L	VL038599.D	0.03	03142022T17:01:00	VL038658.D	0.035
0.026945624	2.602	MSVOA_L	VL038602.D	0.44	03142022T18:52:00	VL038645.D	0.439
0.059785032	2.602	MSVOA_L	VL038602.D	0.47	03142022T18:52:00	VL038645.D	0.466
0.047032569	2.602	MSVOA_L	VL038602.D	0.45	03142022T18:52:00	VL038645.D	0.456
0.053703158	2.602	MSVOA_L	VL038602.D	0.43	03142022T18:52:00	VL038645.D	0.411
0.032543048	2.602	MSVOA_L	VL038602.D	0.3	03142022T18:52:00	VL038645.D	0.336
0.029783385	2.602	MSVOA_L	VL038602.D	0.38	03142022T18:52:00	VL038645.D	0.396
0.027409244	2.602	MSVOA_L	VL038602.D	0.38	03142022T18:52:00	VL038645.D	0.352
0.028535869	2.602	MSVOA_L	VL038602.D	0.45	03142022T18:52:00	VL038645.D	0.407
0.034930824	2.602	MSVOA_L	VL038602.D	0.41	03142022T18:52:00	VL038645.D	0.445
0.02818865	2.602	MSVOA_L	VL038602.D	0.43	03142022T18:52:00	VL038645.D	0.406
0.038892534	2.602	MSVOA_L	VL038602.D	0.33	03142022T18:52:00	VL038645.D	0.374
0.047659163	2.602	MSVOA_L	VL038602.D	0.42	03142022T18:52:00	VL038645.D	0.419
0.030366374	2.602	MSVOA_L	VL038602.D	0.42	03142022T18:52:00	VL038645.D	0.428
0.020271388	2.602	MSVOA_L	VL038602.D	0.42	03142022T18:52:00	VL038645.D	0.418
0.077680086	2.602	MSVOA_L	VL038602.D	0.46	03142022T18:52:00	VL038645.D	0.285
0.038387498	2.602	MSVOA_L	VL038602.D	0.39	03142022T18:52:00	VL038645.D	0.383
0.045614143	2.602	MSVOA_L	VL038602.D	0.4	03142022T18:52:00	VL038645.D	0.406
0.040023691	2.602	MSVOA_L	VL038602.D	0.37	03142022T18:52:00	VL038645.D	0.375
0.030997782	2.602	MSVOA_L	VL038602.D	0.3	03142022T18:52:00	VL038645.D	0.283
0.043058052	2.602	MSVOA_L	VL038602.D	0.34	03142022T18:52:00	VL038645.D	0.356
0.035679067	2.602	MSVOA_L	VL038602.D	0.3	03142022T18:52:00	VL038645.D	0.282
0.090091042	2.602	MSVOA_L	VL038602.D	0.43	03142022T18:52:00	VL038645.D	0.468
0.055964125	2.602	MSVOA_L	VL038602.D	0.4	03142022T18:52:00	VL038645.D	0.392
0.033208182	2.602	MSVOA_L	VL038602.D	0.38	03142022T18:52:00	VL038645.D	0.407
0.066831349	2.602	MSVOA_L	VL038602.D	0.44	03142022T18:52:00	VL038645.D	0.454
0.029508191	2.602	MSVOA_L	VL038602.D	0.43	03142022T18:52:00	VL038645.D	0.408
0.044412039	2.602	MSVOA_L	VL038602.D	0.42	03142022T18:52:00	VL038645.D	0.433
0.021886069	2.602	MSVOA_L	VL038602.D	0.38	03142022T18:52:00	VL038645.D	0.31
0.052912467	2.602	MSVOA_L	VL038602.D	0.43	03142022T18:52:00	VL038645.D	0.404
0.060470378	2.602	MSVOA_L	VL038602.D	0.37	03142022T18:52:00	VL038645.D	0.357
0.004080441	2.602	MSVOA_L	VL038599.D	0.03	03142022T17:01:00	VL038658.D	0.026
0.028901845	2.602	MSVOA_L	VL038602.D	0.48	03142022T18:52:00	VL038645.D	0.467
0.033615225	2.602	MSVOA_L	VL038602.D	0.45	03142022T18:52:00	VL038645.D	0.468
0.062847932	2.602	MSVOA_L	VL038602.D	0.44	03142022T18:52:00	VL038645.D	0.453
0.031603534	2.602	MSVOA_L	VL038602.D	0.45	03142022T18:52:00	VL038645.D	0.464
0.037391621	2.602	MSVOA_L	VL038602.D	0.47	03142022T18:52:00	VL038645.D	0.439
0.033947938	2.602	MSVOA_L	VL038602.D	0.36	03142022T18:52:00	VL038645.D	0.391
0.024307749	2.602	MSVOA_L	VL038602.D	0.3	03142022T18:52:00	VL038645.D	0.317
0.083781636	2.602	MSVOA_L	VL038602.D	0.42	03142022T18:52:00	VL038645.D	0.414
0.02525132	2.602	MSVOA_L	VL038602.D	0.39	03142022T18:52:00	VL038645.D	0.359
0.080544708	2.602	MSVOA_L	VL038602.D	0.49	03142022T18:52:00	VL038645.D	0.43
0.033569579	2.602	MSVOA_L	VL038602.D	0.5	03142022T18:52:00	VL038645.D	0.472
0.030038864	2.602	MSVOA_L	VL038602.D	0.39	03142022T18:52:00	VL038645.D	0.412
0.044355712	2.602	MSVOA_L	VL038602.D	0.33	03142022T18:52:00	VL038645.D	0.357
0.038739676	2.602	MSVOA_L	VL038602.D	0.35	03142022T18:52:00	VL038645.D	0.349
0.032348107	2.602	MSVOA_L	VL038602.D	0.48	03142022T18:52:00	VL038645.D	0.5
0.04092432	2.602	MSVOA_L	VL038602.D	0.37	03142022T18:52:00	VL038645.D	0.411
0.026260236	2.602	MSVOA_L	VL038602.D	0.47	03142022T18:52:00	VL038645.D	0.44
0.033337666	2.602	MSVOA_L	VL038602.D	0.4	03142022T18:52:00	VL038645.D	0.387
0.079104967	2.602	MSVOA_L	VL038602.D	0.76	03142022T18:52:00	VL038645.D	0.762
0.032870389	2.602	MSVOA_L	VL038602.D	0.31	03142022T18:52:00	VL038645.D	0.334
0.045944169	2.602	MSVOA_L	VL038602.D	0.41	03142022T18:52:00	VL038645.D	0.418
0.070735069	2.602	MSVOA_L	VL038602.D	0.49	03142022T18:52:00	VL038645.D	0.479
0.02880907	2.602	MSVOA_L	VL038602.D	0.25	03142022T18:52:00	VL038645.D	0.289
0.057070096	2.602	MSVOA_L	VL038602.D	0.14	03142022T18:52:00	VL038645.D	0.074
0.031520826	2.602	MSVOA_L	VL038602.D	0.35	03142022T18:52:00	VL038645.D	0.366
0.029937087	2.602	MSVOA_L	VL038602.D	0.37	03142022T18:52:00	VL038645.D	0.365
0.045207623	2.602	MSVOA_L	VL038602.D	0.36	03142022T18:52:00	VL038645.D	0.368
0.032938073	2.602	MSVOA_L	VL038602.D	0.35	03142022T18:52:00	VL038645.D	0.366
0.05526165	2.602	MSVOA_L	VL038602.D	0.44	03142022T18:52:00	VL038645.D	0.443
0.035804795	2.602	MSVOA_L	VL038602.D	0.38	03142022T18:52:00	VL038645.D	0.392
0.042061661	2.602	MSVOA_L	VL038602.D	0.26	03142022T18:52:00	VL038645.D	0.275
0.022957116	2.602	MSVOA_L	VL038602.D	0.27	03142022T18:52:00	VL038645.D	0.29
0.072141412	2.602	MSVOA_L	VL038602.D	0.44	03142022T18:52:00	VL038645.D	0.459
0.035649626	2.602	MSVOA_L	VL038602.D	0.37	03142022T18:52:00	VL038645.D	0.405
0.005558402	2.602	MSVOA_L	VL038599.D	0.03	03142022T17:01:00	VL038658.D	0.031
0.047138758	2.602	MSVOA_L	VL038602.D	0.3	03142022T18:52:00	VL038645.D	0.324
0.042	2.602	MSVOA_L	VL038602.D	0.31	03142022T18:52:00	VL038645.D	0.332
0.07120086	2.602	MSVOA_L	VL038602.D	0.4	03142022T18:52:00	VL038645.D	0.396
0.006363634	2.602	MSVOA_L	VL038599.D	0.03	03142022T17:01:00	VL038658.D	0.035
0.060517215	2.602	MSVOA_L	VL038602.D	0.46	03142022T18:52:00	VL038645.D	0.472
0.058559372	2.602	MSVOA_L	VL038602.D	0.4	03142022T18:52:00	VL038645.D	0.389
0.00522135	2.602	MSVOA_L	VL038599.D	0.03	03142022T17:01:00	VL038658.D	0.031
0.105747594	2.998	MSVOA_L	VL040210.D	0.438	02222023T00:52:00	VL040220.D	0.43

Adate2	Datafile3	Concentration3	Adate3	Datafile4	Concentration4	Adate4	Datafile5
03182022T03:39:00	VL039242.D	0.45	06082022T19:44:00	VL039436.D	0.45	07062022T02:26:00	VL039568.D
03212022T20:11:00	VL039329.D	0.036	06222022T20:53:00	VL039439.D	0.033	07062022T09:13:00	VL039570.D
03212022T20:11:00	VL039329.D	0.029	06222022T20:53:00	VL039439.D	0.035	07062022T09:13:00	VL039570.D
03182022T03:39:00	VL039242.D	0.417	06082022T19:44:00	VL039436.D	0.445	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.615	06082022T19:44:00	VL039436.D	0.498	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.493	06082022T19:44:00	VL039436.D	0.545	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.594	06082022T19:44:00	VL039436.D	0.485	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.318	06082022T19:44:00	VL039436.D	0.328	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.389	06082022T19:44:00	VL039436.D	0.387	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.392	06082022T19:44:00	VL039436.D	0.391	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.409	06082022T19:44:00	VL039436.D	0.393	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.494	06082022T19:44:00	VL039436.D	0.435	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.404	06082022T19:44:00	VL039436.D	0.451	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.421	06082022T19:44:00	VL039436.D	0.397	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.583	06082022T19:44:00	VL039436.D	0.486	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.409	06082022T19:44:00	VL039436.D	0.465	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.392	06082022T19:44:00	VL039436.D	0.41	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.454	06082022T19:44:00	VL039436.D	0.535	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.37	06082022T19:44:00	VL039436.D	0.425	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.438	06082022T19:44:00	VL039436.D	0.482	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.415	06082022T19:44:00	VL039436.D	0.401	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.309	06082022T19:44:00	VL039436.D	0.31	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.391	06082022T19:44:00	VL039436.D	0.393	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.371	06082022T19:44:00	VL039436.D	0.372	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.649	06082022T19:44:00	VL039436.D	0.621	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.58	06082022T19:44:00	VL039436.D	0.45	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.391	06082022T19:44:00	VL039436.D	0.429	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.328	06082022T19:44:00	VL039436.D	0.438	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.398	06082022T19:44:00	VL039436.D	0.395	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.526	06082022T19:44:00	VL039436.D	0.475	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.335	06082022T19:44:00	VL039436.D	0.322	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.535	06082022T19:44:00	VL039436.D	0.503	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.494	06082022T19:44:00	VL039436.D	0.389	07062022T02:26:00	VL039568.D
03212022T20:11:00	VL039329.D	0.028	06222022T20:53:00	VL039439.D	0.03	07062022T09:13:00	VL039570.D
03182022T03:39:00	VL039242.D	0.418	06082022T19:44:00	VL039436.D	0.473	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.489	06082022T19:44:00	VL039436.D	0.483	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.595	06082022T19:44:00	VL039436.D	0.52	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.453	06082022T19:44:00	VL039436.D	0.469	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.5	06082022T19:44:00	VL039436.D	0.482	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.403	06082022T19:44:00	VL039436.D	0.434	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.315	06082022T19:44:00	VL039436.D	0.327	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.428	06082022T19:44:00	VL039436.D	0.512	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.359	06082022T19:44:00	VL039436.D	0.37	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.618	06082022T19:44:00	VL039436.D	0.675	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.551	06082022T19:44:00	VL039436.D	0.51	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.376	06082022T19:44:00	VL039436.D	0.441	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.374	06082022T19:44:00	VL039436.D	0.381	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.33	06082022T19:44:00	VL039436.D	0.41	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.444	06082022T19:44:00	VL039436.D	0.472	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.394	06082022T19:44:00	VL039436.D	0.47	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.504	06082022T19:44:00	VL039436.D	0.465	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.425	06082022T19:44:00	VL039436.D	0.416	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.815	06082022T19:44:00	VL039436.D	0.805	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.347	06082022T19:44:00	VL039436.D	0.361	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.492	06082022T19:44:00	VL039436.D	0.452	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.684	06082022T19:44:00	VL039436.D	0.578	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.282	06082022T19:44:00	VL039436.D	0.302	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.155	06082022T19:44:00	VL039436.D	0.143	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.39	06082022T19:44:00	VL039436.D	0.374	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.394	06082022T19:44:00	VL039436.D	0.397	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.421	06082022T19:44:00	VL039436.D	0.403	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.378	06082022T19:44:00	VL039436.D	0.388	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.435	06082022T19:44:00	VL039436.D	0.521	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.411	06082022T19:44:00	VL039436.D	0.406	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.345	06082022T19:44:00	VL039436.D	0.302	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.309	06082022T19:44:00	VL039436.D	0.279	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.655	06082022T19:44:00	VL039436.D	0.505	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.403	06082022T19:44:00	VL039436.D	0.388	07062022T02:26:00	VL039568.D
03212022T20:11:00	VL039329.D	0.036	06222022T20:53:00	VL039439.D	0.034	07062022T09:13:00	VL039570.D
03182022T03:39:00	VL039242.D	0.346	06082022T19:44:00	VL039436.D	0.38	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.341	06082022T19:44:00	VL039436.D	0.37	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.64	06082022T19:44:00	VL039436.D	0.494	07062022T02:26:00	VL039568.D
03212022T20:11:00	VL039329.D	0.038	06222022T20:53:00	VL039439.D	0.034	07062022T09:13:00	VL039570.D
03182022T03:39:00	VL039242.D	0.596	06082022T19:44:00	VL039436.D	0.492	07062022T02:26:00	VL039568.D
03182022T03:39:00	VL039242.D	0.418	06082022T19:44:00	VL039436.D	0.437	07062022T02:26:00	VL039568.D
03212022T20:11:00	VL039329.D	0.043	06222022T20:53:00	VL039439.D	0.036	07062022T09:13:00	VL039570.D
02232022T13:12:00	VL040329.D	0.51	04102023T17:39:00	VL040349.D	0.633	04122023T23:23:00	VL040559.D

Concentration5	Adate5	Datafile6	Concentration6	Adate6	Datafile7	Concentration7	Adate7
0.433	08182022T21:04:00	VL039600.D	0.463	08262022T12:33:00	VL039709.D	0.402	10102022T23:30:00
0.03	08182022T22:24:00	VL039586.D	0.031	08252022T20:23:00	VL039711.D	0.03	10112022T00:45:00
0.03	08182022T22:24:00	VL039586.D	0.029	08252022T20:23:00	VL039711.D	0.03	10112022T00:45:00
0.404	08182022T21:04:00	VL039600.D	0.424	08262022T12:33:00	VL039709.D	0.412	10102022T23:30:00
0.448	08182022T21:04:00	VL039600.D	0.454	08262022T12:33:00	VL039709.D	0.438	10102022T23:30:00
0.426	08182022T21:04:00	VL039600.D	0.451	08262022T12:33:00	VL039709.D	0.445	10102022T23:30:00
0.394	08182022T21:04:00	VL039600.D	0.387	08262022T12:33:00	VL039709.D	0.427	10102022T23:30:00
0.314	08182022T21:04:00	VL039600.D	0.367	08262022T12:33:00	VL039709.D	0.373	10102022T23:30:00
0.342	08182022T21:04:00	VL039600.D	0.389	08262022T12:33:00	VL039709.D	0.389	10102022T23:30:00
0.361	08182022T21:04:00	VL039600.D	0.402	08262022T12:33:00	VL039709.D	0.375	10102022T23:30:00
0.408	08182022T21:04:00	VL039600.D	0.431	08262022T12:33:00	VL039709.D	0.448	10102022T23:30:00
0.411	08182022T21:04:00	VL039600.D	0.455	08262022T12:33:00	VL039709.D	0.418	10102022T23:30:00
0.444	08182022T21:04:00	VL039600.D	0.429	08262022T12:33:00	VL039709.D	0.373	10102022T23:30:00
0.331	08182022T21:04:00	VL039600.D	0.357	08262022T12:33:00	VL039709.D	0.342	10102022T23:30:00
0.405	08182022T21:04:00	VL039600.D	0.449	08262022T12:33:00	VL039709.D	0.422	10102022T23:30:00
0.368	08182022T21:04:00	VL039600.D	0.414	08262022T12:33:00	VL039709.D	0.399	10102022T23:30:00
0.404	08182022T21:04:00	VL039600.D	0.384	08262022T12:33:00	VL039709.D	0.439	10102022T23:30:00
0.373	08182022T21:04:00	VL039600.D	0.341	08262022T12:33:00	VL039709.D	0.418	10102022T23:30:00
0.348	08182022T21:04:00	VL039600.D	0.379	08262022T12:33:00	VL039709.D	0.392	10102022T23:30:00
0.314	08182022T21:04:00	VL039600.D	0.451	08262022T12:33:00	VL039709.D	0.354	10102022T23:30:00
0.312	08182022T21:04:00	VL039600.D	0.359	08262022T12:33:00	VL039709.D	0.348	10102022T23:30:00
0.27	08182022T21:04:00	VL039600.D	0.294	08262022T12:33:00	VL039709.D	0.326	10102022T23:30:00
0.284	08182022T21:04:00	VL039600.D	0.348	08262022T12:33:00	VL039709.D	0.355	10102022T23:30:00
0.322	08182022T21:04:00	VL039600.D	0.335	08262022T12:33:00	VL039709.D	0.32	10102022T23:30:00
0.363	08182022T21:04:00	VL039600.D	0.484	08262022T12:33:00	VL039709.D	0.5	10102022T23:30:00
0.418	08182022T21:04:00	VL039600.D	0.459	08262022T12:33:00	VL039709.D	0.379	10102022T23:30:00
0.345	08182022T21:04:00	VL039600.D	0.376	08262022T12:33:00	VL039709.D	0.398	10102022T23:30:00
0.394	08182022T21:04:00	VL039600.D	0.336	08262022T12:33:00	VL039709.D	0.356	10102022T23:30:00
0.382	08182022T21:04:00	VL039600.D	0.367	08262022T12:33:00	VL039709.D	0.377	10102022T23:30:00
0.408	08182022T21:04:00	VL039600.D	0.441	08262022T12:33:00	VL039709.D	0.388	10102022T23:30:00
0.305	08182022T21:04:00	VL039600.D	0.303	08262022T12:33:00	VL039709.D	0.293	10102022T23:30:00
0.364	08182022T21:04:00	VL039600.D	0.494	08262022T12:33:00	VL039709.D	0.464	10102022T23:30:00
0.399	08182022T21:04:00	VL039600.D	0.268	08262022T12:33:00	VL039709.D	0.332	10102022T23:30:00
0.03	08182022T22:24:00	VL039586.D	0.027	08252022T20:23:00	VL039711.D	0.03	10112022T00:45:00
0.431	08182022T21:04:00	VL039600.D	0.466	08262022T12:33:00	VL039709.D	0.46	10102022T23:30:00
0.456	08182022T21:04:00	VL039600.D	0.504	08262022T12:33:00	VL039709.D	0.446	10102022T23:30:00
0.462	08182022T21:04:00	VL039600.D	0.504	08262022T12:33:00	VL039709.D	0.531	10102022T23:30:00
0.423	08182022T21:04:00	VL039600.D	0.46	08262022T12:33:00	VL039709.D	0.411	10102022T23:30:00
0.392	08182022T21:04:00	VL039600.D	0.472	08262022T12:33:00	VL039709.D	0.485	10102022T23:30:00
0.36	08182022T21:04:00	VL039600.D	0.407	08262022T12:33:00	VL039709.D	0.438	10102022T23:30:00
0.277	08182022T21:04:00	VL039600.D	0.291	08262022T12:33:00	VL039709.D	0.284	10102022T23:30:00
0.376	08182022T21:04:00	VL039600.D	0.395	08262022T12:33:00	VL039709.D	0.383	10102022T23:30:00
0.339	08182022T21:04:00	VL039600.D	0.335	08262022T12:33:00	VL039709.D	0.301	10102022T23:30:00
0.62	08182022T21:04:00	VL039600.D	0.643	08262022T12:33:00	VL039709.D	0.694	10102022T23:30:00
0.454	08182022T21:04:00	VL039600.D	0.508	08262022T12:33:00	VL039709.D	0.473	10102022T23:30:00
0.341	08182022T21:04:00	VL039600.D	0.432	08262022T12:33:00	VL039709.D	0.395	10102022T23:30:00
0.297	08182022T21:04:00	VL039600.D	0.338	08262022T12:33:00	VL039709.D	0.334	10102022T23:30:00
0.347	08182022T21:04:00	VL039600.D	0.382	08262022T12:33:00	VL039709.D	0.407	10102022T23:30:00
0.447	08182022T21:04:00	VL039600.D	0.502	08262022T12:33:00	VL039709.D	0.468	10102022T23:30:00
0.385	08182022T21:04:00	VL039600.D	0.405	08262022T12:33:00	VL039709.D	0.435	10102022T23:30:00
0.458	08182022T21:04:00	VL039600.D	0.434	08262022T12:33:00	VL039709.D	0.481	10102022T23:30:00
0.361	08182022T21:04:00	VL039600.D	0.388	08262022T12:33:00	VL039709.D	0.405	10102022T23:30:00
0.673	08182022T21:04:00	VL039600.D	0.719	08262022T12:33:00	VL039709.D	0.688	10102022T23:30:00
0.3	08182022T21:04:00	VL039600.D	0.323	08262022T12:33:00	VL039709.D	0.346	10102022T23:30:00
0.337	08182022T21:04:00	VL039600.D	0.355	08262022T12:33:00	VL039709.D	0.396	10102022T23:30:00
0.536	08182022T21:04:00	VL039600.D	0.634	08262022T12:33:00	VL039709.D	0.499	10102022T23:30:00
0.28	08182022T21:04:00	VL039600.D	0.302	08262022T12:33:00	VL039709.D	0.291	10102022T23:30:00
0.158	08182022T21:04:00	VL039600.D	0.094	08262022T12:33:00	VL039709.D	0.149	10102022T23:30:00
0.321	08182022T21:04:00	VL039600.D	0.354	08262022T12:33:00	VL039709.D	0.358	10102022T23:30:00
0.332	08182022T21:04:00	VL039600.D	0.338	08262022T12:33:00	VL039709.D	0.347	10102022T23:30:00
0.315	08182022T21:04:00	VL039600.D	0.347	08262022T12:33:00	VL039709.D	0.354	10102022T23:30:00
0.316	08182022T21:04:00	VL039600.D	0.362	08262022T12:33:00	VL039709.D	0.358	10102022T23:30:00
0.499	08182022T21:04:00	VL039600.D	0.578	08262022T12:33:00	VL039709.D	0.533	10102022T23:30:00
0.359	08182022T21:04:00	VL039600.D	0.382	08262022T12:33:00	VL039709.D	0.371	10102022T23:30:00
0.23	08182022T21:04:00	VL039600.D	0.257	08262022T12:33:00	VL039709.D	0.278	10102022T23:30:00
0.252	08182022T21:04:00	VL039600.D	0.252	08262022T12:33:00	VL039709.D	0.273	10102022T23:30:00
0.384	08182022T21:04:00	VL039600.D	0.382	08262022T12:33:00	VL039709.D	0.454	10102022T23:30:00
0.345	08182022T21:04:00	VL039600.D	0.399	08262022T12:33:00	VL039709.D	0.371	10102022T23:30:00
0.03	08182022T22:24:00	VL039586.D	0.038	08252022T20:23:00	VL039711.D	0.03	10112022T00:45:00
0.299	08182022T21:04:00	VL039600.D	0.344	08262022T12:33:00	VL039709.D	0.389	10102022T23:30:00
0.288	08182022T21:04:00	VL039600.D	0.296	08262022T12:33:00	VL039709.D	0.33	10102022T23:30:00
0.375	08182022T21:04:00	VL039600.D	0.466	08262022T12:33:00	VL039709.D	0.437	10102022T23:30:00
0.03	08182022T22:24:00	VL039586.D	0.031	08252022T20:23:00	VL039711.D	0.04	10112022T00:45:00
0.436	08182022T21:04:00	VL039600.D	0.47	08262022T12:33:00	VL039709.D	0.385	10102022T23:30:00
0.42	08182022T21:04:00	VL039600.D	0.483	08262022T12:33:00	VL039709.D	0.363	10102022T23:30:00
0.03	08182022T22:24:00	VL039586.D	0.029	08252022T20:23:00	VL039711.D	0.03	10112022T00:45:00
0.636	07272023T03:27:00	VL040579.D	0.42	07312023T19:20:00	VL040747.D	0.607	10042023T19:33:00

Datafile8	Concentration8	Adate8	Datafile9	Concentration9	Adate9	Datafile10	Concentration10
VL040134.D	0.42	01302023T15:54:00	VL040210.D	0.383	02222023T00:52:00	VL040220.D	0.42
VL040136.D	0.03	01302023T17:08:00	VL040222.D	0.038	02232023T14:26:00	VL040223.D	0.033
VL040136.D	0.03	01302023T17:08:00	VL040222.D	0.032	02232023T14:26:00	VL040223.D	0.027
VL040134.D	0.41	01302023T15:54:00	VL040210.D	0.395	02222023T00:52:00	VL040220.D	0.43
VL040134.D	0.38	01302023T15:54:00	VL040210.D	0.476	02222023T00:52:00	VL040220.D	0.47
VL040134.D	0.38	01302023T15:54:00	VL040210.D	0.436	02222023T00:52:00	VL040220.D	0.45
VL040134.D	0.4	01302023T15:54:00	VL040210.D	0.452	02222023T00:52:00	VL040220.D	0.45
VL040134.D	0.32	01302023T15:54:00	VL040210.D	0.299	02222023T00:52:00	VL040220.D	0.32
VL040134.D	0.37	01302023T15:54:00	VL040210.D	0.375	02222023T00:52:00	VL040220.D	0.37
VL040134.D	0.39	01302023T15:54:00	VL040210.D	0.38	02222023T00:52:00	VL040220.D	0.38
VL040134.D	0.38	01302023T15:54:00	VL040210.D	0.378	02222023T00:52:00	VL040220.D	0.43
VL040134.D	0.4	01302023T15:54:00	VL040210.D	0.434	02222023T00:52:00	VL040220.D	0.44
VL040134.D	0.41	01302023T15:54:00	VL040210.D	0.432	02222023T00:52:00	VL040220.D	0.43
VL040134.D	0.35	01302023T15:54:00	VL040210.D	0.344	02222023T00:52:00	VL040220.D	0.34
VL040134.D	0.43	01302023T15:54:00	VL040210.D	0.396	02222023T00:52:00	VL040220.D	0.41
VL040134.D	0.37	01302023T15:54:00	VL040210.D	0.395	02222023T00:52:00	VL040220.D	0.42
VL040134.D	0.4	01302023T15:54:00	VL040210.D	0.402	02222023T00:52:00	VL040220.D	0.4
VL040134.D	0.41	01302023T15:54:00	VL040210.D	0.387	02222023T00:52:00	VL040220.D	0.43
VL040134.D	0.39	01302023T15:54:00	VL040210.D	0.352	02222023T00:52:00	VL040220.D	0.38
VL040134.D	0.38	01302023T15:54:00	VL040210.D	0.416	02222023T00:52:00	VL040220.D	0.44
VL040134.D	0.36	01302023T15:54:00	VL040210.D	0.34	02222023T00:52:00	VL040220.D	0.36
VL040134.D	0.32	01302023T15:54:00	VL040210.D	0.318	02222023T00:52:00	VL040220.D	0.34
VL040134.D	0.35	01302023T15:54:00	VL040210.D	0.321	02222023T00:52:00	VL040220.D	0.36
VL040134.D	0.36	01302023T15:54:00	VL040210.D	0.337	02222023T00:52:00	VL040220.D	0.37
VL040134.D	0.45	01302023T15:54:00	VL040210.D	0.482	02222023T00:52:00	VL040220.D	0.5
VL040134.D	0.36	01302023T15:54:00	VL040210.D	0.411	02222023T00:52:00	VL040220.D	0.45
VL040134.D	0.38	01302023T15:54:00	VL040210.D	0.359	02222023T00:52:00	VL040220.D	0.39
VL040134.D	0.29	01302023T15:54:00	VL040210.D	0.311	02222023T00:52:00	VL040220.D	0.38
VL040134.D	0.37	01302023T15:54:00	VL040210.D	0.378	02222023T00:52:00	VL040220.D	0.38
VL040134.D	0.37	01302023T15:54:00	VL040210.D	0.413	02222023T00:52:00	VL040220.D	0.42
VL040134.D	0.32	01302023T15:54:00	VL040210.D	0.32	02222023T00:52:00	VL040220.D	0.33
VL040134.D	0.4	01302023T15:54:00	VL040210.D	0.408	02222023T00:52:00	VL040220.D	0.49
VL040134.D	0.31	01302023T15:54:00	VL040210.D	0.391	02222023T00:52:00	VL040220.D	0.37
VL040136.D	0.03	01302023T17:08:00	VL040222.D	0.033	02232023T14:26:00	VL040223.D	0.037
VL040134.D	0.44	01302023T15:54:00	VL040210.D	0.414	02222023T00:52:00	VL040220.D	0.45
VL040134.D	0.43	01302023T15:54:00	VL040210.D	0.474	02222023T00:52:00	VL040220.D	0.46
VL040134.D	0.37	01302023T15:54:00	VL040210.D	0.416	02222023T00:52:00	VL040220.D	0.44
VL040134.D	0.47	01302023T15:54:00	VL040210.D	0.445	02222023T00:52:00	VL040220.D	0.42
VL040134.D	0.46	01302023T15:54:00	VL040210.D	0.443	02222023T00:52:00	VL040220.D	0.47
VL040134.D	0.38	01302023T15:54:00	VL040210.D	0.435	02222023T00:52:00	VL040220.D	0.38
VL040134.D	0.33	01302023T15:54:00	VL040210.D	0.284	02222023T00:52:00	VL040220.D	0.34
VL040134.D	0.49	01302023T15:54:00	VL040210.D	0.521	02222023T00:52:00	VL040220.D	0.34
VL040134.D	0.35	01302023T15:54:00	VL040210.D	0.343	02222023T00:52:00	VL040220.D	0.34
VL040134.D	0.48	01302023T15:54:00	VL040210.D	0.497	02222023T00:52:00	VL040220.D	0.49
VL040134.D	0.43	01302023T15:54:00	VL040210.D	0.431	02222023T00:52:00	VL040220.D	0.46
VL040134.D	0.39	01302023T15:54:00	VL040210.D	0.398	02222023T00:52:00	VL040220.D	0.42
VL040134.D	0.36	01302023T15:54:00	VL040210.D	0.309	02222023T00:52:00	VL040220.D	0.33
VL040134.D	0.34	01302023T15:54:00	VL040210.D	0.336	02222023T00:52:00	VL040220.D	0.37
VL040134.D	0.43	01302023T15:54:00	VL040210.D	0.421	02222023T00:52:00	VL040220.D	0.44
VL040134.D	0.41	01302023T15:54:00	VL040210.D	0.4	02222023T00:52:00	VL040220.D	0.41
VL040134.D	0.4	01302023T15:54:00	VL040210.D	0.479	02222023T00:52:00	VL040220.D	0.48
VL040134.D	0.38	01302023T15:54:00	VL040210.D	0.361	02222023T00:52:00	VL040220.D	0.4
VL040134.D	0.71	01302023T15:54:00	VL040210.D	0.699	02222023T00:52:00	VL040220.D	0.75
VL040134.D	0.35	01302023T15:54:00	VL040210.D	0.314	02222023T00:52:00	VL040220.D	0.35
VL040134.D	0.38	01302023T15:54:00	VL040210.D	0.421	02222023T00:52:00	VL040220.D	0.41
VL040134.D	0.44	01302023T15:54:00	VL040210.D	0.558	02222023T00:52:00	VL040220.D	0.57
VL040134.D	0.27	01302023T15:54:00	VL040210.D	0.246	02222023T00:52:00	VL040220.D	0.27
VL040134.D	0.19	01302023T15:54:00	VL040210.D	0.116	02222023T00:52:00	VL040220.D	0.21
VL040134.D	0.34	01302023T15:54:00	VL040210.D	0.349	02222023T00:52:00	VL040220.D	0.35
VL040134.D	0.34	01302023T15:54:00	VL040210.D	0.354	02222023T00:52:00	VL040220.D	0.36
VL040134.D	0.34	01302023T15:54:00	VL040210.D	0.331	02222023T00:52:00	VL040220.D	0.36
VL040134.D	0.33	01302023T15:54:00	VL040210.D	0.329	02222023T00:52:00	VL040220.D	0.34
VL040134.D	0.42	01302023T15:54:00	VL040210.D	0.432	02222023T00:52:00	VL040220.D	0.43
VL040134.D	0.36	01302023T15:54:00	VL040210.D	0.352	02222023T00:52:00	VL040220.D	0.37
VL040134.D	0.29	01302023T15:54:00	VL040210.D	0.262	02222023T00:52:00	VL040220.D	0.27
VL040134.D	0.3	01302023T15:54:00	VL040210.D	0.292	02222023T00:52:00	VL040220.D	0.3
VL040134.D	0.4	01302023T15:54:00	VL040210.D	0.395	02222023T00:52:00	VL040220.D	0.44
VL040134.D	0.35	01302023T15:54:00	VL040210.D	0.349	02222023T00:52:00	VL040220.D	0.36
VL040136.D	0.03	01302023T17:08:00	VL040222.D	0.029	02232023T14:26:00	VL040223.D	0.031
VL040134.D	0.42	01302023T15:54:00	VL040210.D	0.368	02222023T00:52:00	VL040220.D	0.42
VL040134.D	0.34	01302023T15:54:00	VL040210.D	0.297	02222023T00:52:00	VL040220.D	0.33
VL040134.D	0.35	01302023T15:54:00	VL040210.D	0.397	02222023T00:52:00	VL040220.D	0.42
VL040136.D	0.03	01302023T17:08:00	VL040222.D	0.027	02232023T14:26:00	VL040223.D	0.028
VL040134.D	0.4	01302023T15:54:00	VL040210.D	0.451	02222023T00:52:00	VL040220.D	0.45
VL040134.D	0.39	01302023T15:54:00	VL040210.D	0.438	02222023T00:52:00	VL040220.D	0.4
VL040136.D	0.03	01302023T17:08:00	VL040222.D	0.033	02232023T14:26:00	VL040223.D	0.038
VL040805.D	0.675	10252023T18:12:00					

Adate10	Datafile11	Concentration11	Adate11	Datafile12	Concentration12	Adate12	Datafile13
02232023T13:12:00	VL040329.D	0.45	04102023T17:39:00	VL040349.D	0.434	04122023T23:23:00	VL040559.D
02232023T15:04:00	VL040332.D	0.028	04102023T19:33:00	VL040346.D	0.027	04122023T19:50:00	VL040576.D
02232023T15:04:00	VL040332.D	0.023	04102023T19:33:00	VL040346.D	0.03	04122023T19:50:00	VL040576.D
02232023T13:12:00	VL040329.D	0.41	04102023T17:39:00	VL040349.D	0.403	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.42	04102023T17:39:00	VL040349.D	0.429	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.43	04102023T17:39:00	VL040349.D	0.4	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.44	04102023T17:39:00	VL040349.D	0.419	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.3	04102023T17:39:00	VL040349.D	0.302	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.34	04102023T17:39:00	VL040349.D	0.362	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.37	04102023T17:39:00	VL040349.D	0.398	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.38	04102023T17:39:00	VL040349.D	0.402	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.45	04102023T17:39:00	VL040349.D	0.427	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.41	04102023T17:39:00	VL040349.D	0.385	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.33	04102023T17:39:00	VL040349.D	0.311	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.38	04102023T17:39:00	VL040349.D	0.448	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.38	04102023T17:39:00	VL040349.D	0.392	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.39	04102023T17:39:00	VL040349.D	0.402	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.33	04102023T17:39:00	VL040349.D	0.33	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.35	04102023T17:39:00	VL040349.D	0.356	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.45	04102023T17:39:00	VL040349.D	0.451	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.32	04102023T17:39:00	VL040349.D	0.31	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.28	04102023T17:39:00	VL040349.D	0.29	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.32	04102023T17:39:00	VL040349.D	0.303	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.33	04102023T17:39:00	VL040349.D	0.339	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.58	04102023T17:39:00	VL040349.D	0.582	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.39	04102023T17:39:00	VL040349.D	0.402	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.37	04102023T17:39:00	VL040349.D	0.365	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.37	04102023T17:39:00	VL040349.D	0.421	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.38	04102023T17:39:00	VL040349.D	0.397	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.41	04102023T17:39:00	VL040349.D	0.415	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.31	04102023T17:39:00	VL040349.D	0.337	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.44	04102023T17:39:00	VL040349.D	0.51	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.34	04102023T17:39:00	VL040349.D	0.342	04122023T23:23:00	VL040559.D
02232023T15:04:00	VL040332.D	0.028	04102023T19:33:00	VL040346.D	0.025	04122023T19:50:00	VL040576.D
02232023T13:12:00	VL040329.D	0.45	04102023T17:39:00	VL040349.D	0.433	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.45	04102023T17:39:00	VL040349.D	0.453	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.4	04102023T17:39:00	VL040349.D	0.487	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.43	04102023T17:39:00	VL040349.D	0.456	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.47	04102023T17:39:00	VL040349.D	0.455	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.38	04102023T17:39:00	VL040349.D	0.376	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.29	04102023T17:39:00	VL040349.D	0.287	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.29	04102023T17:39:00	VL040349.D	0.35	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.35	04102023T17:39:00	VL040349.D	0.339	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.51	04102023T17:39:00	VL040349.D	0.483	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.46	04102023T17:39:00	VL040349.D	0.467	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.39	04102023T17:39:00	VL040349.D	0.394	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.32	04102023T17:39:00	VL040349.D	0.31	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.33	04102023T17:39:00	VL040349.D	0.336	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.45	04102023T17:39:00	VL040349.D	0.441	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.37	04102023T17:39:00	VL040349.D	0.365	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.47	04102023T17:39:00	VL040349.D	0.442	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.38	04102023T17:39:00	VL040349.D	0.363	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.66	04102023T17:39:00	VL040349.D	0.659	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.31	04102023T17:39:00	VL040349.D	0.305	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.41	04102023T17:39:00	VL040349.D	0.362	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.47	04102023T17:39:00	VL040349.D	0.533	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.26	04102023T17:39:00	VL040349.D	0.261	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.21	04102023T17:39:00	VL040349.D	0.19	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.33	04102023T17:39:00	VL040349.D	0.334	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.35	04102023T17:39:00	VL040349.D	0.345	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.31	04102023T17:39:00	VL040349.D	0.327	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.32	04102023T17:39:00	VL040349.D	0.314	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.42	04102023T17:39:00	VL040349.D	0.465	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.35	04102023T17:39:00	VL040349.D	0.335	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.26	04102023T17:39:00	VL040349.D	0.257	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.27	04102023T17:39:00	VL040349.D	0.256	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.46	04102023T17:39:00	VL040349.D	0.427	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.34	04102023T17:39:00	VL040349.D	0.327	04122023T23:23:00	VL040559.D
02232023T15:04:00	VL040332.D	0.022	04102023T19:33:00	VL040346.D	0.029	04122023T19:50:00	VL040576.D
02232023T13:12:00	VL040329.D	0.3	04102023T17:39:00	VL040349.D	0.347	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.29	04102023T17:39:00	VL040349.D	0.291	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.37	04102023T17:39:00	VL040349.D	0.391	04122023T23:23:00	VL040559.D
02232023T15:04:00	VL040332.D	0.029	04102023T19:33:00	VL040346.D	0.028	04122023T19:50:00	VL040576.D
02232023T13:12:00	VL040329.D	0.45	04102023T17:39:00	VL040349.D	0.47	04122023T23:23:00	VL040559.D
02232023T13:12:00	VL040329.D	0.37	04102023T17:39:00	VL040349.D	0.58	04122023T23:23:00	VL040559.D
02232023T15:04:00	VL040332.D	0.024	04102023T19:33:00	VL040346.D	0.029	04122023T19:50:00	VL040576.D

Concentration13	Adate13	Datafile14	Concentration14	Adate14	Datafile15	Concentration15	Adate15
0.48	07272023T03:27:00	VL040579.D	0.42	07312023T19:20:00	VL040747.D	0.488	10042023T19:33:00
0.03	07312023T17:18:00	VL040581.D	0.031	07312023T20:41:00	VL040772.D	0.035	10122023T01:48:00
0.031	07312023T17:18:00	VL040581.D	0.026	07312023T20:41:00	VL040772.D	0.029	10122023T01:48:00
0.459	07272023T03:27:00	VL040579.D	0.36	07312023T19:20:00	VL040747.D	0.405	10042023T19:33:00
0.573	07272023T03:27:00	VL040579.D	0.5	07312023T19:20:00	VL040747.D	0.557	10042023T19:33:00
0.535	07272023T03:27:00	VL040579.D	0.43	07312023T19:20:00	VL040747.D	0.527	10042023T19:33:00
0.527	07272023T03:27:00	VL040579.D	0.42	07312023T19:20:00	VL040747.D	0.481	10042023T19:33:00
0.33	07272023T03:27:00	VL040579.D	0.23	07312023T19:20:00	VL040747.D	0.305	10042023T19:33:00
0.389	07272023T03:27:00	VL040579.D	0.3	07312023T19:20:00	VL040747.D	0.361	10042023T19:33:00
0.425	07272023T03:27:00	VL040579.D	0.32	07312023T19:20:00	VL040747.D	0.359	10042023T19:33:00
0.442	07272023T03:27:00	VL040579.D	0.36	07312023T19:20:00	VL040747.D	0.45	10042023T19:33:00
0.519	07272023T03:27:00	VL040579.D	0.41	07312023T19:20:00	VL040747.D	0.426	10042023T19:33:00
0.452	07272023T03:27:00	VL040579.D	0.36	07312023T19:20:00	VL040747.D	0.42	10042023T19:33:00
0.33	07272023T03:27:00	VL040579.D	0.26	07312023T19:20:00	VL040747.D	0.321	10042023T19:33:00
0.412	07272023T03:27:00	VL040579.D	0.41	07312023T19:20:00	VL040747.D	0.466	10042023T19:33:00
0.388	07272023T03:27:00	VL040579.D	0.33	07312023T19:20:00	VL040747.D	0.412	10042023T19:33:00
0.438	07272023T03:27:00	VL040579.D	0.36	07312023T19:20:00	VL040747.D	0.382	10042023T19:33:00
0.373	07272023T03:27:00	VL040579.D	0.29	07312023T19:20:00	VL040747.D	0.257	10042023T19:33:00
0.398	07272023T03:27:00	VL040579.D	0.27	07312023T19:20:00	VL040747.D	0.335	10042023T19:33:00
0.448	07272023T03:27:00	VL040579.D	0.37	07312023T19:20:00	VL040747.D	0.443	10042023T19:33:00
0.35	07272023T03:27:00	VL040579.D	0.27	07312023T19:20:00	VL040747.D	0.325	10042023T19:33:00
0.303	07272023T03:27:00	VL040579.D	0.22	07312023T19:20:00	VL040747.D	0.283	10042023T19:33:00
0.32	07272023T03:27:00	VL040579.D	0.23	07312023T19:20:00	VL040747.D	0.317	10042023T19:33:00
0.348	07272023T03:27:00	VL040579.D	0.27	07312023T19:20:00	VL040747.D	0.302	10042023T19:33:00
0.674	07272023T03:27:00	VL040579.D	0.48	07312023T19:20:00	VL040747.D	0.65	10042023T19:33:00
0.436	07272023T03:27:00	VL040579.D	0.37	07312023T19:20:00	VL040747.D	0.511	10042023T19:33:00
0.397	07272023T03:27:00	VL040579.D	0.3	07312023T19:20:00	VL040747.D	0.386	10042023T19:33:00
0.425	07272023T03:27:00	VL040579.D	0.34	07312023T19:20:00	VL040747.D	0.307	10042023T19:33:00
0.467	07272023T03:27:00	VL040579.D	0.4	07312023T19:20:00	VL040747.D	0.409	10042023T19:33:00
0.508	07272023T03:27:00	VL040579.D	0.42	07312023T19:20:00	VL040747.D	0.506	10042023T19:33:00
0.352	07272023T03:27:00	VL040579.D	0.33	07312023T19:20:00	VL040747.D	0.349	10042023T19:33:00
0.543	07272023T03:27:00	VL040579.D	0.46	07312023T19:20:00	VL040747.D	0.496	10042023T19:33:00
0.46	07272023T03:27:00	VL040579.D	0.42	07312023T19:20:00	VL040747.D	0.477	10042023T19:33:00
0.036	07312023T17:18:00	VL040581.D	0.033	07312023T20:41:00	VL040772.D	0.031	10122023T01:48:00
0.481	07272023T03:27:00	VL040579.D	0.38	07312023T19:20:00	VL040747.D	0.489	10042023T19:33:00
0.526	07272023T03:27:00	VL040579.D	0.45	07312023T19:20:00	VL040747.D	0.55	10042023T19:33:00
0.516	07272023T03:27:00	VL040579.D	0.43	07312023T19:20:00	VL040747.D	0.576	10042023T19:33:00
0.521	07272023T03:27:00	VL040579.D	0.41	07312023T19:20:00	VL040747.D	0.501	10042023T19:33:00
0.486	07272023T03:27:00	VL040579.D	0.39	07312023T19:20:00	VL040747.D	0.544	10042023T19:33:00
0.405	07272023T03:27:00	VL040579.D	0.32	07312023T19:20:00	VL040747.D	0.431	10042023T19:33:00
0.295	07272023T03:27:00	VL040579.D	0.25	07312023T19:20:00	VL040747.D	0.298	10042023T19:33:00
0.301	07272023T03:27:00	VL040579.D	0.21	07312023T19:20:00	VL040747.D	0.317	10042023T19:33:00
0.403	07272023T03:27:00	VL040579.D	0.35	07312023T19:20:00	VL040747.D	0.381	10042023T19:33:00
0.54	07272023T03:27:00	VL040579.D	0.47	07312023T19:20:00	VL040747.D	0.562	10042023T19:33:00
0.516	07272023T03:27:00	VL040579.D	0.46	07312023T19:20:00	VL040747.D	0.509	10042023T19:33:00
0.424	07272023T03:27:00	VL040579.D	0.34	07312023T19:20:00	VL040747.D	0.441	10042023T19:33:00
0.32	07272023T03:27:00	VL040579.D	0.21	07312023T19:20:00	VL040747.D	0.299	10042023T19:33:00
0.341	07272023T03:27:00	VL040579.D	0.25	07312023T19:20:00	VL040747.D	0.355	10042023T19:33:00
0.466	07272023T03:27:00	VL040579.D	0.37	07312023T19:20:00	VL040747.D	0.479	10042023T19:33:00
0.38	07272023T03:27:00	VL040579.D	0.31	07312023T19:20:00	VL040747.D	0.465	10042023T19:33:00
0.451	07272023T03:27:00	VL040579.D	0.43	07312023T19:20:00	VL040747.D	0.426	10042023T19:33:00
0.379	07272023T03:27:00	VL040579.D	0.29	07312023T19:20:00	VL040747.D	0.386	10042023T19:33:00
0.735	07272023T03:27:00	VL040579.D	0.54	07312023T19:20:00	VL040747.D	0.682	10042023T19:33:00
0.283	07272023T03:27:00	VL040579.D	0.23	07312023T19:20:00	VL040747.D	0.324	10042023T19:33:00
0.468	07272023T03:27:00	VL040579.D	0.38	07312023T19:20:00	VL040747.D	0.472	10042023T19:33:00
0.619	07272023T03:27:00	VL040579.D	0.62	07312023T19:20:00	VL040747.D	0.625	10042023T19:33:00
0.274	07272023T03:27:00	VL040579.D	0.19	07312023T19:20:00	VL040747.D	0.258	10042023T19:33:00
0.107	07272023T03:27:00	VL040579.D	0.06	07312023T19:20:00	VL040747.D	0.133	10042023T19:33:00
0.361	07272023T03:27:00	VL040579.D	0.27	07312023T19:20:00	VL040747.D	0.343	10042023T19:33:00
0.355	07272023T03:27:00	VL040579.D	0.27	07312023T19:20:00	VL040747.D	0.369	10042023T19:33:00
0.355	07272023T03:27:00	VL040579.D	0.26	07312023T19:20:00	VL040747.D	0.301	10042023T19:33:00
0.357	07272023T03:27:00	VL040579.D	0.26	07312023T19:20:00	VL040747.D	0.313	10042023T19:33:00
0.436	07272023T03:27:00	VL040579.D	0.34	07312023T19:20:00	VL040747.D	0.471	10042023T19:33:00
0.393	07272023T03:27:00	VL040579.D	0.29	07312023T19:20:00	VL040747.D	0.354	10042023T19:33:00
0.242	07272023T03:27:00	VL040579.D	0.17	07312023T19:20:00	VL040747.D	0.266	10042023T19:33:00
0.283	07272023T03:27:00	VL040579.D	0.23	07312023T19:20:00	VL040747.D	0.312	10042023T19:33:00
0.539	07272023T03:27:00	VL040579.D	0.43	07312023T19:20:00	VL040747.D	0.394	10042023T19:33:00
0.366	07272023T03:27:00	VL040579.D	0.28	07312023T19:20:00	VL040747.D	0.381	10042023T19:33:00
0.025	07312023T17:18:00	VL040581.D	0.028	07312023T20:41:00	VL040772.D	0.044	10122023T01:48:00
0.353	07272023T03:27:00	VL040579.D	0.26	07312023T19:20:00	VL040747.D	0.351	10042023T19:33:00
0.285	07272023T03:27:00	VL040579.D	0.2	07312023T19:20:00	VL040747.D	0.288	10042023T19:33:00
0.477	07272023T03:27:00	VL040579.D	0.4	07312023T19:20:00	VL040747.D	0.507	10042023T19:33:00
0.027	07312023T17:18:00	VL040581.D	0.027	07312023T20:41:00	VL040772.D	0.039	10122023T01:48:00
0.589	07272023T03:27:00	VL040579.D	0.52	07312023T19:20:00	VL040747.D	0.561	10042023T19:33:00
0.487	07272023T03:27:00	VL040579.D	0.46	07312023T19:20:00	VL040747.D	0.456	10042023T19:33:00
0.03	07312023T17:18:00	VL040581.D	0.033	07312023T20:41:00	VL040772.D	0.041	10122023T01:48:00

Datafile16	Concentration16	Adate16	Department	AVG Concentration	Recovery
VL040805.D	0.428	10252023T18:12:00	VOC	0.45	110
VL040787.D	0.04	10232023T20:32:00	VOC	0.032	110
VL040787.D	0.04	10232023T20:32:00	VOC	0.03	100
VL040805.D	0.471	10252023T18:12:00	VOC	0.42	110
VL040805.D	0.476	10252023T18:12:00	VOC	0.48	120
VL040805.D	0.427	10252023T18:12:00	VOC	0.46	110
VL040805.D	0.47	10252023T18:12:00	VOC	0.45	110
VL040805.D	0.288	10252023T18:12:00	VOC	0.31	79
VL040805.D	0.435	10252023T18:12:00	VOC	0.37	93
VL040805.D	0.433	10252023T18:12:00	VOC	0.38	95
VL040805.D	0.405	10252023T18:12:00	VOC	0.41	100
VL040805.D	0.501	10252023T18:12:00	VOC	0.44	110
VL040805.D	0.456	10252023T18:12:00	VOC	0.42	100
VL040805.D	0.403	10252023T18:12:00	VOC	0.35	87
VL040805.D	0.455	10252023T18:12:00	VOC	0.44	110
VL040805.D	0.412	10252023T18:12:00	VOC	0.4	100
VL040805.D	0.414	10252023T18:12:00	VOC	0.4	100
VL040805.D	0.486	10252023T18:12:00	VOC	0.38	96
VL040805.D	0.434	10252023T18:12:00	VOC	0.37	93
VL040805.D	0.467	10252023T18:12:00	VOC	0.42	100
VL040805.D	0.42	10252023T18:12:00	VOC	0.35	88
VL040805.D	0.353	10252023T18:12:00	VOC	0.3	75
VL040805.D	0.397	10252023T18:12:00	VOC	0.34	84
VL040805.D	0.403	10252023T18:12:00	VOC	0.34	84
VL040805.D	0.576	10252023T18:12:00	VOC	0.53	130
VL040805.D	0.422	10252023T18:12:00	VOC	0.43	110
VL040805.D	0.445	10252023T18:12:00	VOC	0.38	96
VL040805.D	0.205	10252023T18:12:00	VOC	0.36	91
VL040805.D	0.458	10252023T18:12:00	VOC	0.4	100
VL040805.D	0.436	10252023T18:12:00	VOC	0.44	110
VL040805.D	0.34	10252023T18:12:00	VOC	0.33	82
VL040805.D	0.508	10252023T18:12:00	VOC	0.47	120
VL040805.D	0.361	10252023T18:12:00	VOC	0.38	95
VL040787.D	0.04	10232023T20:32:00	VOC	0.031	100
VL040805.D	0.454	10252023T18:12:00	VOC	0.45	110
VL040805.D	0.517	10252023T18:12:00	VOC	0.48	120
VL040805.D	0.435	10252023T18:12:00	VOC	0.47	120
VL040805.D	0.487	10252023T18:12:00	VOC	0.45	110
VL040805.D	0.458	10252023T18:12:00	VOC	0.46	120
VL040805.D	0.435	10252023T18:12:00	VOC	0.4	99
VL040805.D	0.335	10252023T18:12:00	VOC	0.3	75
VL040805.D	0.416	10252023T18:12:00	VOC	0.39	96
VL040805.D	0.384	10252023T18:12:00	VOC	0.36	89
VL040805.D	0.516	10252023T18:12:00	VOC	0.54	140
VL040805.D	0.505	10252023T18:12:00	VOC	0.48	120
VL040805.D	0.404	10252023T18:12:00	VOC	0.4	100
VL040805.D	0.406	10252023T18:12:00	VOC	0.33	82
VL040805.D	0.404	10252023T18:12:00	VOC	0.35	88
VL040805.D	0.446	10252023T18:12:00	VOC	0.45	110
VL040805.D	0.452	10252023T18:12:00	VOC	0.4	100
VL040805.D	0.442	10252023T18:12:00	VOC	0.45	110
VL040805.D	0.435	10252023T18:12:00	VOC	0.38	96
VL040805.D	0.888	10252023T18:12:00	VOC	0.72	180
VL040805.D	0.348	10252023T18:12:00	VOC	0.32	80
VL040805.D	0.353	10252023T18:12:00	VOC	0.41	100
VL040805.D	0.619	10252023T18:12:00	VOC	0.56	140
VL040805.D	0.226	10252023T18:12:00	VOC	0.27	66
VL040805.D	0	10252023T18:12:00	VOC	0.14	35
VL040805.D	0.415	10252023T18:12:00	VOC	0.35	88
VL040805.D	0.389	10252023T18:12:00	VOC	0.35	89
VL040805.D	0.439	10252023T18:12:00	VOC	0.35	87
VL040805.D	0.381	10252023T18:12:00	VOC	0.34	85
VL040805.D	0.467	10252023T18:12:00	VOC	0.46	110
VL040805.D	0.449	10252023T18:12:00	VOC	0.37	93
VL040805.D	0.35	10252023T18:12:00	VOC	0.27	67
VL040805.D	0.291	10252023T18:12:00	VOC	0.28	70
VL040805.D	0.37	10252023T18:12:00	VOC	0.45	110
VL040805.D	0.427	10252023T18:12:00	VOC	0.37	92
VL040787.D	0.04	10232023T20:32:00	VOC	0.032	110
VL040805.D	0.416	10252023T18:12:00	VOC	0.35	88
VL040805.D	0.38	10252023T18:12:00	VOC	0.31	78
VL040805.D	0.435	10252023T18:12:00	VOC	0.43	110
VL040787.D	0.05	10232023T20:32:00	VOC	0.033	110
VL040805.D	0.506	10252023T18:12:00	VOC	0.48	120
VL040805.D	0.341	10252023T18:12:00	VOC	0.43	110
VL040787.D	0.04	10232023T20:32:00	VOC	0.033	110
			VOC	0.544	136



QC SUMMARY

Surrogate Summary

SDG No.: Q1668

Client: Woodard & Curran

Analytical Method: SWTO-15

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q1668-01	IA-B1-4-3252025	1-Bromo-4-Fluorobenzene	10	10.2	102	70 (65)	130 (135)
Q1668-01DL	IA-B1-4-3252025DL	1-Bromo-4-Fluorobenzene	10	10.0	100	70 (65)	130 (135)
Q1668-01DUP	IA-B1-4-3252025DUP	1-Bromo-4-Fluorobenzene	10	10.1	101	70 (65)	130 (135)
Q1668-02	IA-B1-2-3252025	1-Bromo-4-Fluorobenzene	10	9.86	99	70 (65)	130 (135)
Q1668-03	IA-B1-3-3252025	1-Bromo-4-Fluorobenzene	10	9.92	99	70 (65)	130 (135)
Q1668-03DL	IA-B1-3-3252025DL	1-Bromo-4-Fluorobenzene	10	10.2	102	70 (65)	130 (135)
Q1668-04	IA-B1-1-3252025	1-Bromo-4-Fluorobenzene	10	9.94	99	70 (65)	130 (135)
VL0417ABL01	VL0417ABL01	1-Bromo-4-Fluorobenzene	10	10.1	101	70 (65)	130 (135)
VL0417ABS01	VL0417ABS01	1-Bromo-4-Fluorobenzene	10	10.1	101	70 (65)	130 (135)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1668

Client: Woodard & Curran

Analytical Method: SWTO-15

Datafile : VL042358.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VL0417ABS01	Dichlorodifluoromethane	10	10.3	ppbv	103			40 (70)	160 (130)	
	Chloromethane	10	10.1	ppbv	101			40 (70)	160 (130)	
	Vinyl Chloride	10	9.00	ppbv	90			70 (70)	130 (130)	
	Bromomethane	10	9.20	ppbv	92			40 (70)	160 (130)	
	Chloroethane	10	10.1	ppbv	101			40 (70)	160 (130)	
	Tetrahydrofuran	10	9.70	ppbv	97			70 (70)	130 (130)	
	Trichlorofluoromethane	10	10.1	ppbv	101			40 (70)	160 (130)	
	1,1,2-Trichlorotrifluoroethane	10	10.1	ppbv	101			70 (70)	130 (130)	
	Dichlorotetrafluoroethane	10	10.2	ppbv	102			70 (70)	130 (130)	
	tert-Butyl Alcohol	10	9.80	ppbv	98			70 (70)	130 (130)	
	Heptane	10	9.20	ppbv	92			70 (70)	130 (130)	
	1,1-Dichloroethene	10	9.80	ppbv	98			70 (70)	130 (130)	
	Acetone	10	8.70	ppbv	87			40 (70)	160 (130)	
	Carbon disulfide	10	10.2	ppbv	102			40 (70)	160 (130)	
	Methyl tert-butyl Ether	10	9.50	ppbv	95			70 (70)	130 (130)	
	Methylene Chloride	10	8.90	ppbv	89			70 (70)	130 (130)	
	trans-1,2-Dichloroethene	10	9.70	ppbv	97			70 (70)	130 (130)	
	1,1-Dichloroethane	10	10.2	ppbv	102			70 (70)	130 (130)	
	Cyclohexane	10	10.1	ppbv	101			70 (70)	130 (130)	
	2-Butanone	10	9.80	ppbv	98			40 (70)	160 (130)	
	Carbon Tetrachloride	10	9.60	ppbv	96			70 (70)	130 (130)	
	cis-1,2-Dichloroethene	10	10.4	ppbv	104			70 (70)	130 (130)	
	Chloroform	10	10.2	ppbv	102			70 (70)	130 (130)	
	1,1,1-Trichloroethane	10	9.70	ppbv	97			70 (70)	130 (130)	
	2,2,4-Trimethylpentane	10	10.0	ppbv	100			70 (70)	130 (130)	
	Benzene	10	10.1	ppbv	101			70 (70)	130 (130)	
	1,2-Dichloroethane	10	10.4	ppbv	104			70 (70)	130 (130)	
	Trichloroethene	10	9.30	ppbv	93			70 (70)	130 (130)	
	1,2-Dichloropropane	10	9.90	ppbv	99			70 (70)	130 (130)	
	Bromodichloromethane	10	10.3	ppbv	103			70 (70)	130 (130)	
	4-Methyl-2-Pentanone	10	8.80	ppbv	88			40 (70)	160 (130)	
	Toluene	10	9.80	ppbv	98			70 (70)	130 (130)	
	t-1,3-Dichloropropene	10	9.90	ppbv	99			70 (70)	130 (130)	
	cis-1,3-Dichloropropene	10	10.1	ppbv	101			70 (70)	130 (130)	
	1,1,2-Trichloroethane	10	10.2	ppbv	102			70 (70)	130 (130)	
	Dibromochloromethane	10	10.3	ppbv	103			70 (70)	130 (130)	
	1,2-Dibromoethane	10	9.90	ppbv	99			70 (70)	130 (130)	
	Tetrachloroethene	10	8.80	ppbv	88			70 (70)	130 (130)	
	Chlorobenzene	10	10.0	ppbv	100			70 (70)	130 (130)	
	Ethyl Benzene	10	10.0	ppbv	100			70 (70)	130 (130)	
	m/p-Xylene	20	19.8	ppbv	99			70 (70)	130 (130)	
	o-Xylene	10	9.80	ppbv	98			70 (70)	130 (130)	
	Styrene	10	10.1	ppbv	101			70 (70)	130 (130)	
	Bromoform	10	9.90	ppbv	99			70 (70)	130 (130)	
	1,1,2,2-Tetrachloroethane	10	8.90	ppbv	89			70 (70)	130 (130)	
	2-Chlorotoluene	10	9.90	ppbv	99			70 (70)	130 (130)	
	1,3,5-Trimethylbenzene	10	9.60	ppbv	96			70 (70)	130 (130)	
	1,2,4-Trimethylbenzene	10	9.00	ppbv	90			70 (70)	130 (130)	

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1668

Client: Woodard & Curran

Analytical Method: SWTO-15

Datafile : VL042358.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VL0417ABS01	1,3-Dichlorobenzene	10	9.50	ppbv	95			70 (70)	130 (130)	
	1,4-Dichlorobenzene	10	9.40	ppbv	94			70 (70)	130 (130)	
	1,2-Dichlorobenzene	10	9.50	ppbv	95			70 (70)	130 (130)	
	1,2,4-Trichlorobenzene	10	9.40	ppbv	94			70 (70)	130 (130)	
	Hexachloro-1,3-butadiene	10	9.10	ppbv	91			70 (70)	130 (130)	
	Naphthalene	10	9.00	ppbv	90			40 (70)	160 (130)	
	1,3-Butadiene	10	9.10	ppbv	91			70 (70)	130 (130)	
	4-Ethyltoluene	10	9.60	ppbv	96			70 (70)	130 (130)	
	Hexane	10	9.80	ppbv	98			70 (70)	130 (130)	
	Allyl Chloride	10	9.70	ppbv	97			70 (70)	130 (130)	
	1,4-Dioxane	10	8.70	ppbv	87			40 (70)	160 (130)	
	Methyl methacrylate	10	9.30	ppbv	93			70 (70)	130 (130)	

Duplicate Sample Summary

Lab Sample Id :	Q1668-01DUP	Q1668-01
Client Id :	IA-B1-4-3252025DUP	IA-B1-4-3252025
DF :	1	1
Datafile :	VL042362.D	VL042361.D
Anal Date & Time :	04/17/2025 17:51	04/17/2025 17:17

Parameter	Result	Result	RPD
1,1,1-Trichloroethane	0	0	0
1,1,2,2-Tetrachloroethane	0	0	0
1,1,2-Trichloroethane	0	0	0
1,1,2-Trichlorotrifluoroethane	0	0	0
1,1-Dichloroethane	0	0	0
1,1-Dichloroethene	0	0	0
1,2,4-Trichlorobenzene	0	0	0
1,2,4-Trimethylbenzene	3.9	3.8	2.6
1,2-Dibromoethane	0	0	0
1,2-Dichlorobenzene	0	0	0
1,2-Dichloroethane	0	0	0
1,2-Dichloropropane	0	0	0
1,3,5-Trimethylbenzene	1.3	1.3	0
1,3-Butadiene	0	0	0
1,3-Dichlorobenzene	0	0	0
1,4-Dichlorobenzene	0	0	0
1,4-Dioxane	0	0	0
2,2,4-Trimethylpentane	0.17	0.19	11.1
2-Butanone	0.69	0.69	0
2-Chlorotoluene	0	0	0
4-Ethyltoluene	1.1	1	9.5
4-Methyl-2-Pentanone	19.4	19.6	1
Acetone	5.2	5.3	1.9
Allyl Chloride	0	0	0
Benzene	0.53	0.56	5.5
Bromodichloromethane	0	0	0
Bromoform	0	0	0
Bromomethane	0	0	0
Carbon Disulfide	0.6	0.63	4.9
Carbon Tetrachloride	0.08	0.08	0

Duplicate Sample Summary

Lab Sample Id :	Q1668-01DUP	Q1668-01
Client Id :	IA-B1-4-3252025DUP	IA-B1-4-3252025
DF :	1	1
Datafile :	VL042362.D	VL042361.D
Anal Date & Time :	04/17/2025 17:51	04/17/2025 17:17

Parameter	Result	Result	RPD
Chlorobenzene	0	0	0
Chloroethane	0	0	0
Chloroform	0	0	0
Chloromethane	0.47	0.53	12
cis-1,2-Dichloroethene	0	0	0
cis-1,3-Dichloropropene	0	0	0
Cyclohexane	3.4	3.3	3
Dibromochloromethane	0	0	0
Dichlorodifluoromethane	0.45	0.46	2.2
Dichlorotetrafluoroethane	0	0	0
Ethyl Benzene	0.95	0.94	1.1
Heptane	1.9	1.9	0
Hexachloro-1,3-Butadiene	0	0	0
Hexane	2.9	3	3.4
m/p-Xylene	9.2	9.4	2.2
Methyl Methacrylate	0	0	0
Methyl tert-Butyl Ether	0	0	0
Methylene Chloride	2.8	2.8	0
Naphthalene	0.63	0.6	4.9
o-Xylene	2	2	0
Styrene	1.6	1.6	0
t-1,3-Dichloropropene	0	0	0
tert-Butyl alcohol	0	0	0
Tetrachloroethene	0.04	0.05	22.2 *
Tetrahydrofuran	0	0	0
Toluene	1.6	1.6	0
trans-1,2-Dichloroethene	0	0	0
Trichloroethene	0	0	0
Trichlorofluoromethane	0.23	0.24	4.3
Vinyl Chloride	0	0	0

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VL0417ABL01

Lab Name: CHEMTECH

Contract: WOOD06

Lab Code: CHEM Case No.: Q1668

SAS No.: Q1668 SDG NO.: Q1668

Lab File ID: VL042357.D

Lab Sample ID: VL0417ABL01

Date Analyzed: 04/17/2025

Time Analyzed: 14:23

GC Column: RTX-1 ID: 0.32 (mm)

Heated Purge: (Y/N) N

Instrument ID: MSVOA_L

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VL0417ABS01	VL0417ABS01	VL042358.D	04/17/2025
IA-B1-4-3252025	Q1668-01	VL042361.D	04/17/2025
IA-B1-4-3252025DUP	Q1668-01DUP	VL042362.D	04/17/2025
IA-B1-3-3252025	Q1668-03	VL042363.D	04/17/2025
IA-B1-1-3252025	Q1668-04	VL042364.D	04/17/2025
IA-B1-2-3252025	Q1668-02	VL042365.D	04/17/2025
IA-B1-4-3252025DL	Q1668-01DL	VL042374.D	04/18/2025
IA-B1-3-3252025DL	Q1668-03DL	VL042375.D	04/18/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: WOOD06
Lab Code: CHEM Case No.: Q1668 SAS No.: Q1668 SDG NO.: Q1668
Lab File ID: VL042348.D BFB Injection Date: 04/17/2025
Instrument ID: MSVOA_L BFB Injection Time: 07:50
GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	23.1
75	30.0 - 66.0% of mass 95	57
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 120.0% of mass 95	59.5
175	4.0 - 9.0% of mass 174	4.5 (7.6) 1
176	93.0 - 101.0% of mass 174	57.6 (96.9) 1
177	5.0 - 9.0% of mass 176	3.6 (6.3) 2

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICCC010	VSTDICCC010	VL042349.D	04/17/2025	09:44
VSTDICCC002	VSTDICCC002	VL042350.D	04/17/2025	10:17
VSTDICCC001	VSTDICCC001	VL042351.D	04/17/2025	10:48
VSTDICCC0.5	VSTDICCC0.5	VL042352.D	04/17/2025	11:19
VSTDICCC0.1	VSTDICCC0.1	VL042353.D	04/17/2025	11:50
VSTDICCC0.03	VSTDICCC0.03	VL042354.D	04/17/2025	12:22
VSTDICCC015	VSTDICCC015	VL042355.D	04/17/2025	12:54
VL0417ABL01	VL0417ABL01	VL042357.D	04/17/2025	14:23
VL0417ABS01	VL0417ABS01	VL042358.D	04/17/2025	15:39
IA-B1-4-3252025	Q1668-01	VL042361.D	04/17/2025	17:17
IA-B1-4-3252025DUP	Q1668-01DUP	VL042362.D	04/17/2025	17:51
IA-B1-3-3252025	Q1668-03	VL042363.D	04/17/2025	18:24
IA-B1-1-3252025	Q1668-04	VL042364.D	04/17/2025	18:58
IA-B1-2-3252025	Q1668-02	VL042365.D	04/17/2025	19:31
IA-B1-4-3252025DL	Q1668-01DL	VL042374.D	04/18/2025	00:28
IA-B1-3-3252025DL	Q1668-03DL	VL042375.D	04/18/2025	00:59

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: WOOD06
Lab Code: CHEM Case No.: Q1668 SAS No.: Q1668 SDG NO.: Q1668
Lab File ID: VL042349.D Date Analyzed: 04/17/2025
Instrument ID: MSVOA_L Time Analyzed: 09:44
GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	125455	2.79	366544	3.96	338126	8.88
UPPER LIMIT	175637	3.12	513162	4.29	473376	9.21
LOWER LIMIT	75273	2.46	219926	3.63	202876	8.55
EPA SAMPLE NO.						
IA-B1-4-3252025	118680	2.79	339191	3.96	303501	8.89
IA-B1-4-3252025DL	104470	2.79	294101	3.96	258444	8.88
IA-B1-4-3252025DUP	122226	2.79	344143	3.96	303859	8.88
IA-B1-2-3252025	121182	2.79	339124	3.96	302443	8.88
IA-B1-3-3252025	117934	2.79	342044	3.96	304398	8.88
IA-B1-3-3252025DL	102685	2.79	291278	3.96	253844	8.88
IA-B1-1-3252025	117691	2.79	343133	3.96	303219	8.89
VL0417ABL01	113566	2.79	328716	3.97	297633	8.89
VL0417ABS01	122375	2.79	352201	3.97	321521	8.89

IS1 = Bromochloromethane
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

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

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.



SAMPLE DATA

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/26/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/27/25
Client Sample ID:	IA-B1-4-3252025	SDG No.:	Q1668
Lab Sample ID:	Q1668-01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042361.D	1		04/17/25 17:17	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.46	2.27	J	1.04	2.47	ug/m3
74-87-3	Chloromethane	0.53	1.09		0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.010	0.030	U	0.030	0.080	ug/m3
74-83-9	Bromomethane	0.14	0.54	U	0.54	1.94	ug/m3
75-00-3	Chloroethane	0.17	0.45	U	0.45	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.13	0.38	U	0.38	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.24	1.35	J	0.90	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.16	1.23	U	1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.090	0.63	U	0.63	3.49	ug/m3
75-65-0	tert-Butyl alcohol	0.19	0.58	U	0.58	1.52	ug/m3
142-82-5	Heptane	1.90	7.79		0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
67-64-1	Acetone	5.30	12.6		0.57	1.19	ug/m3
75-15-0	Carbon Disulfide	0.63	1.96		0.50	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.12	0.43	U	0.43	1.80	ug/m3
75-09-2	Methylene Chloride	2.80	9.73		0.66	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.19	0.75	U	0.75	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.13	0.53	U	0.53	2.02	ug/m3
110-82-7	Cyclohexane	3.30	11.4		0.76	1.72	ug/m3
78-93-3	2-Butanone	0.69	2.04		0.35	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.080	0.50		0.060	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.090	0.36	U	0.36	1.98	ug/m3
67-66-3	Chloroform	0.080	0.39	U	0.39	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.010	0.050	U	0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.19	0.89	J	0.47	2.34	ug/m3
71-43-2	Benzene	0.56	1.79		0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.090	0.36	U	0.36	2.02	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.11	0.51	U	0.51	2.31	ug/m3
75-27-4	Bromodichloromethane	0.080	0.54	U	0.54	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	19.6	80.3	E	0.37	2.05	ug/m3
108-88-3	Toluene	1.60	6.03		0.41	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.070	0.38	U	0.38	2.73	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/26/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/27/25
Client Sample ID:	IA-B1-4-3252025	SDG No.:	Q1668
Lab Sample ID:	Q1668-01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042361.D	1		04/17/25 17:17	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.070	0.60	U	0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.070	0.54	U	0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	0.050	0.34		0.14	0.20	ug/m3
108-90-7	Chlorobenzene	0.080	0.37	U	0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	0.94	4.08		0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	9.40	40.8		0.91	4.34	ug/m3
95-47-6	o-Xylene	2.00	8.69		0.52	2.17	ug/m3
100-42-5	Styrene	1.60	6.81		0.47	2.13	ug/m3
75-25-2	Bromoform	0.060	0.62	U	0.62	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.010	0.070	U	0.070	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.11	0.57	U	0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	1.30	6.39		0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	3.80	18.7		0.39	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.050	0.30	U	0.30	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.090	0.67	U	0.67	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.090	0.96	U	0.96	5.33	ug/m3
106-99-0	1,3-Butadiene	0.13	0.29	U	0.29	1.11	ug/m3
91-20-3	Naphthalene	0.60	3.15		0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	1.00	4.92		0.59	2.46	ug/m3
110-54-3	Hexane	3.00	10.6		0.39	1.76	ug/m3
107-05-1	Allyl Chloride	0.15	0.47	U	0.47	1.57	ug/m3
123-91-1	1,4-Dioxane	0.21	0.76	U	0.76	1.80	ug/m3
80-62-6	Methyl Methacrylate	0.090	0.37	U	0.37	2.05	ug/m3

SURROGATES

460-00-4	1-Bromo-4-Fluorobenzene	10.2		70 (65) - 130 (135)	102%	SPK: 10

INTERNAL STANDARDS

74-97-5	Bromochloromethane	119000	2.787
540-36-3	1,4-Difluorobenzene	339000	3.959
3114-55-4	Chlorobenzene-d5	304000	8.885

TENTATIVE IDENTIFIED COMPOUNDS

75-45-6	Chlorodifluoromethane	0.30	J	1.48	ppbv
115-07-1	Propene	0.62	J	1.49	ppbv
64-17-5	Ethanol	250	J	1.72	ppbv

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/26/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/27/25
Client Sample ID:	IA-B1-4-3252025	SDG No.:	Q1668
Lab Sample ID:	Q1668-01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042361.D	1		04/17/25 17:17	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
67-63-0	Isopropyl Alcohol	2.10		J		1.89	ppbv
000107-83-5	Pentane, 2-methyl-	2.00		J		2.48	ppbv
000096-37-7	Cyclopentane, methyl-	2.50		J		3.23	ppbv
000591-76-4	Hexane, 2-methyl-	3.10		J		4.06	ppbv
000589-34-4	Hexane, 3-methyl-	3.90		J		4.27	ppbv
000108-87-2	Cyclohexane, methyl-	2.50		J		5.67	ppbv
000108-94-1	Cyclohexanone	4.40		J		9.63	ppbv
98-82-8	Isopropylbenzene	0.15		J		10.5	ppbv
103-65-1	n-propylbenzene	0.53		J		11.0	ppbv
013475-82-6	Heptane, 2,2,4,6,6-pentamethyl-	2.20		J		11.7	ppbv
000124-18-5	Decane	3.60		J		11.8	ppbv
99-87-6	p-Isopropyltoluene	0.16		J		11.9	ppbv
104-51-8	n-Butylbenzene	0.35		J		12.3	ppbv
002870-04-4	Benzene, 2-ethyl-1,3-dimethyl-	2.00		J		12.6	ppbv
001120-21-4	Undecane	2.40		J		12.8	ppbv
91-57-6	Naphthalene,2-methyl-	0.25		J		14.5	ppbv

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042361.D
 Acq On : 17 Apr 2025 17:17
 Operator : SY/MD
 Sample : Q1668-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B1-4-3252025

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 02:38:57 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Fri Apr 18 02:14:00 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	118680	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	339191	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	303501	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	254412	10.201	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.000%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	9719	0.463	ppbv	96
3) Chlorodifluoromethane	1.476	51	5942m	0.298	ppbv	
4) Chloromethane	1.535	50	4388	0.529	ppbv #	83
9) Propene	1.486	41	5612	0.617	ppbv	87
10) Heptane	4.982	43	49177	1.925	ppbv	98
11) Trichlorofluoromethane	1.878	101	4685	0.235	ppbv	98
13) Ethanol	1.722	45	357077	247.060	ppbv	76
15) Acetone	1.836	43	102271	5.264	ppbv	92
19) Isopropyl Alcohol	1.888	45	23025	2.133	ppbv #	3
20) Methylene Chloride	2.062	84	21165	2.782	ppbv #	80
26) Hexane	2.826	57	57707	2.977	ppbv #	32
27) Carbon Disulfide	2.150	76	12989	0.626	ppbv #	1
30) Cyclohexane	3.862	84	52016	3.319	ppbv	99
34) 2-Butanone	2.564	43	18598	0.693	ppbv	98
35) Carbon Tetrachloride	3.771	117	2493m	0.081	ppbv	
36) Benzene	3.658	78	20521	0.561	ppbv	98
44) 2,2,4-Trimethylpentane	4.642	57	11677m	0.185	ppbv	
50) 4-Methyl-2-Pentanone	5.755	43	873418	19.593	ppbv	99
52) Tetrachloroethene	8.231	164	746m	0.053	ppbv	
53) Toluene	6.933	91	68700	1.565	ppbv	100
58) Ethyl Benzene	9.361	91	56772	0.944	ppbv	94
59) m/p-Xylene	9.536	91	454491	9.382	ppbv	100
60) o-Xylene	9.966	91	95896	1.966	ppbv	99
61) Styrene	9.872	104	37931	1.629	ppbv	98
62) Isopropylbenzene	10.542	105	10580	0.148	ppbv	95
64) n-propylbenzene	10.992	120	9483	0.527	ppbv	96
69) p-Isopropyltoluene	11.928	119	12502	0.157	ppbv	99
70) n-Butylbenzene	12.287	91	28567	0.345	ppbv #	43
72) 4-Ethyltoluene	11.128	105	61306	1.028	ppbv #	56
73) 1,3,5-Trimethylbenzene	11.206	105	67763	1.287	ppbv	99
74) 1,2,4-Trimethylbenzene	11.539	105	234839	3.819	ppbv #	65
79) Naphthalene	13.517	128	44224	0.601	ppbv	99
80) Naphthalene,2-methyl-	14.459	142	10408	0.248	ppbv #	74

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042361.D
Acq On : 17 Apr 2025 17:17
Operator : SY/MD
Sample : Q1668-01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

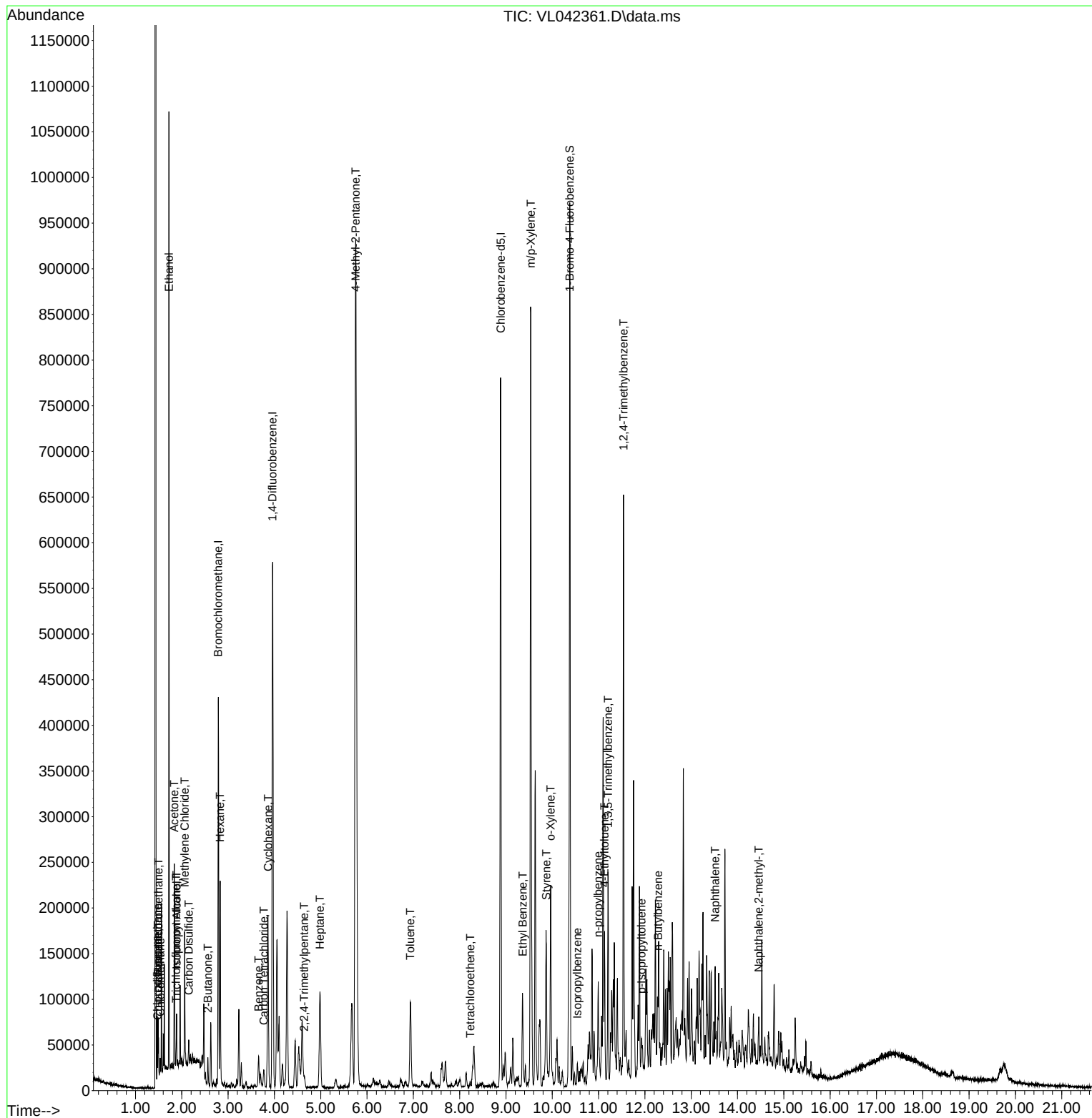
Quant Time: Apr 18 02:38:57 2025

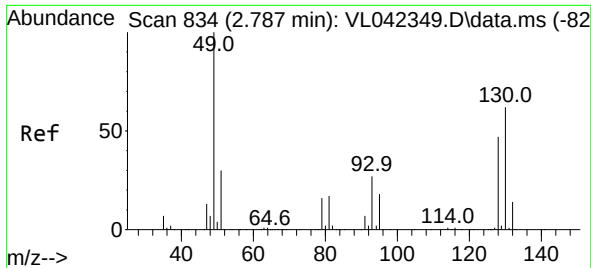
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug

QLast Update : Fri Apr 18 02:14:00 2025

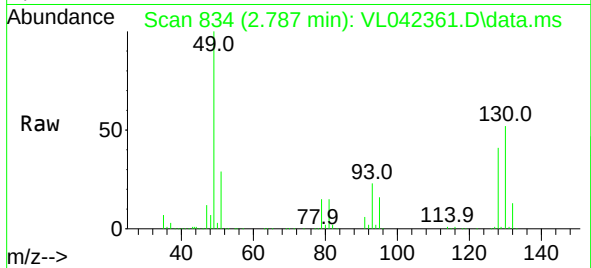
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 834
Delta R.T. 0.000 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

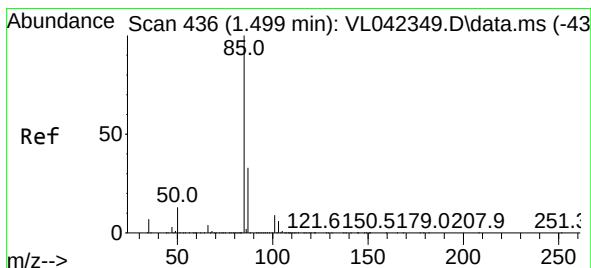
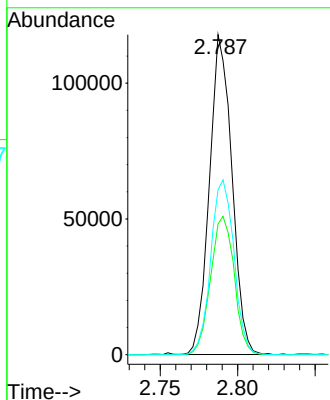
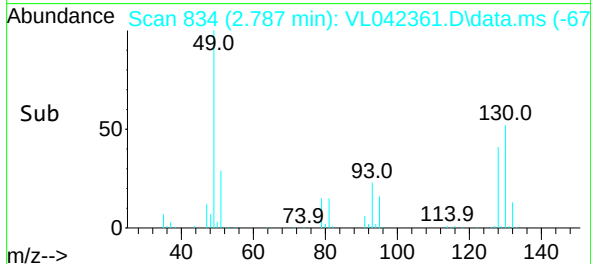
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025



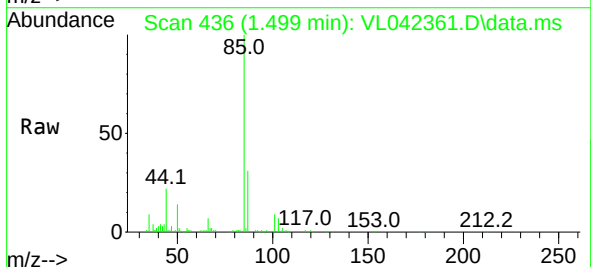
Tgt Ion: 49 Resp: 118680
Ion Ratio Lower Upper
49 100
128 45.4 22.8 68.4
130 56.4 29.3 88.0

Manual Integrations
APPROVED

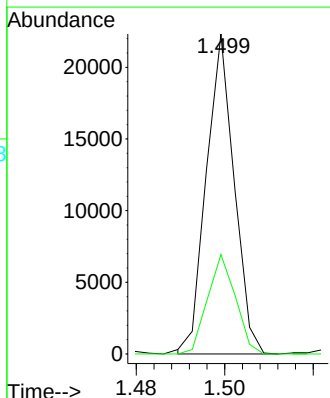
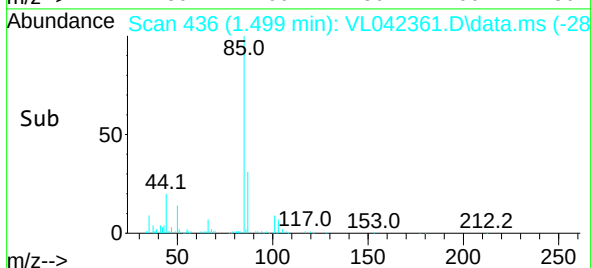
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

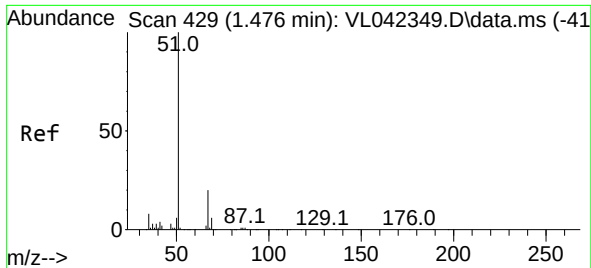


#2
Dichlorodifluoromethane
Concen: 0.463 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17



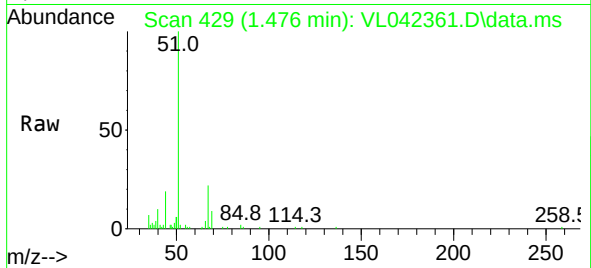
Tgt Ion: 85 Resp: 9719
Ion Ratio Lower Upper
85 100
87 31.1 26.6 39.8





#3
Chlorodifluoromethane
Concen: 0.298 ppbv m
RT: 1.476 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

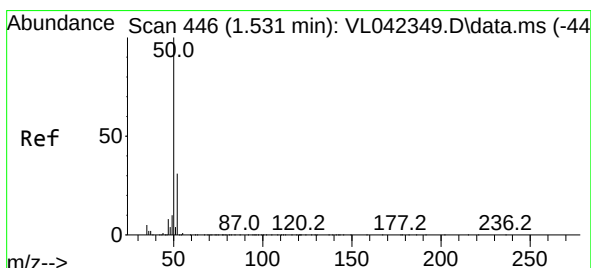
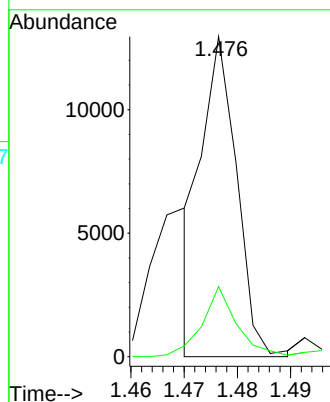
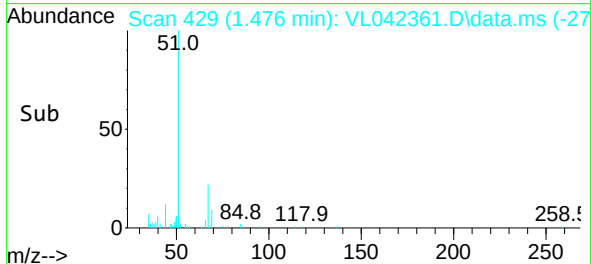
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025



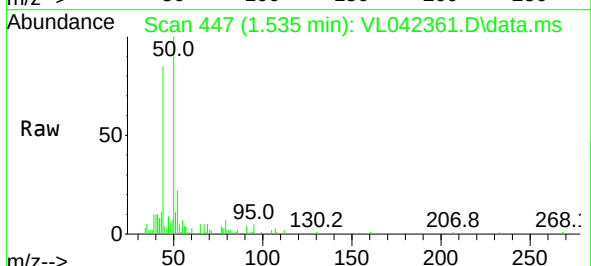
Tgt Ion: 51 Resp: 5942
Ion Ratio Lower Upper
51 100
67 26.7 16.2 24.4

Manual Integrations
APPROVED

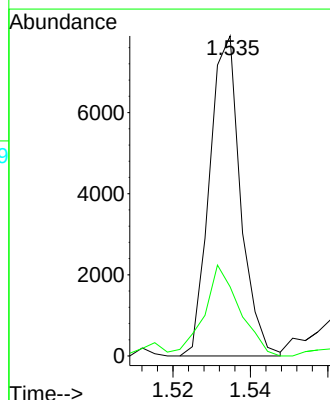
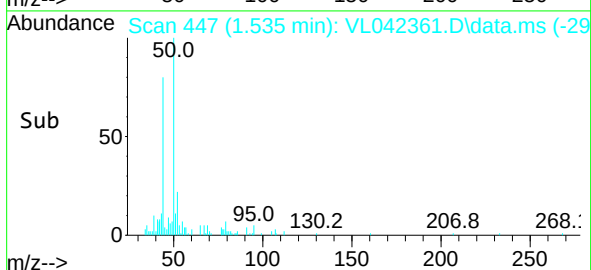
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

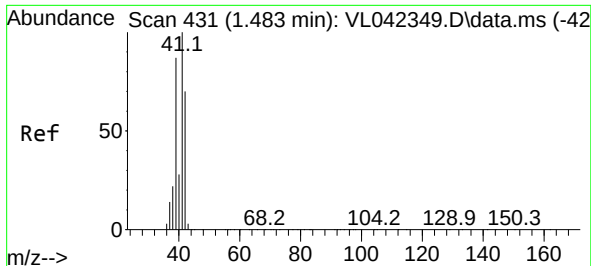


#4
Chloromethane
Concen: 0.529 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.004 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17



Tgt Ion: 50 Resp: 4388
Ion Ratio Lower Upper
50 100
52 21.8 24.7 37.1





#9

Propene

Concen: 0.617 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.004 min

Lab File: VL042361.D

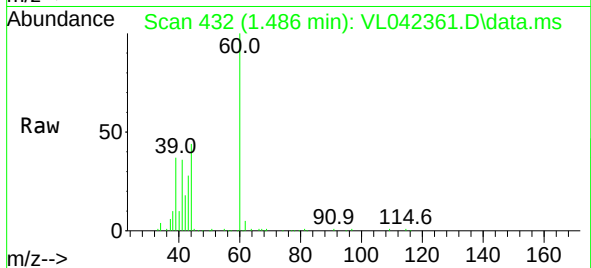
Acq: 17 Apr 2025 17:17

Instrument :

MSVOA_L

ClientSampleId :

IA-B1-4-3252025



Tgt Ion: 41 Resp: 561

Ion Ratio Lower Upper

41 100

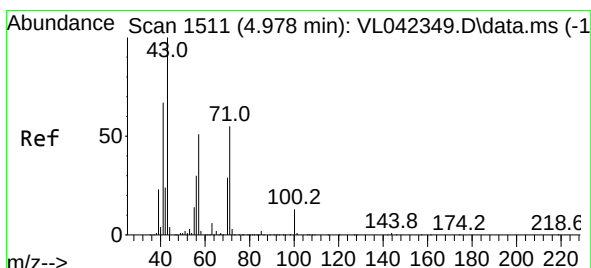
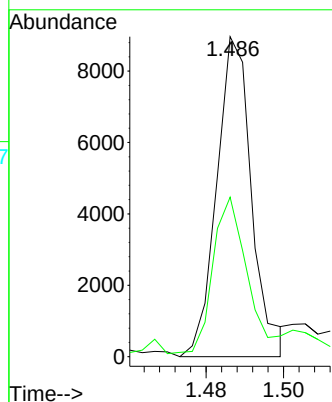
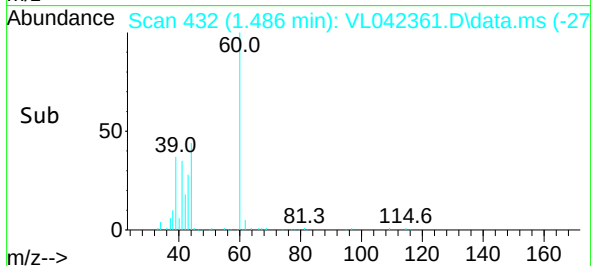
42 60.0 56.2 84.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#10

Heptane

Concen: 1.925 ppbv

RT: 4.982 min Scan# 1512

Delta R.T. 0.004 min

Lab File: VL042361.D

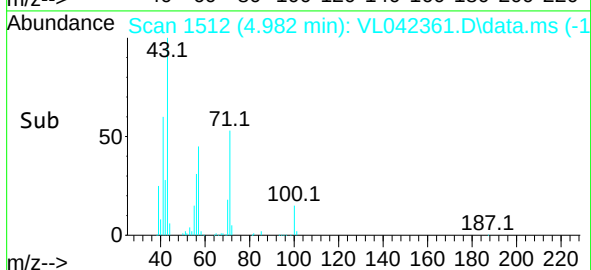
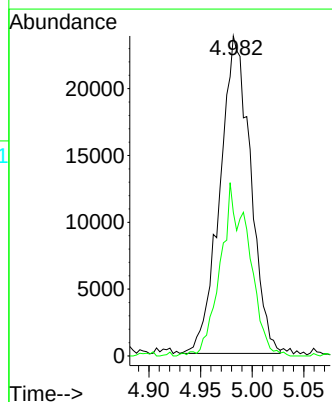
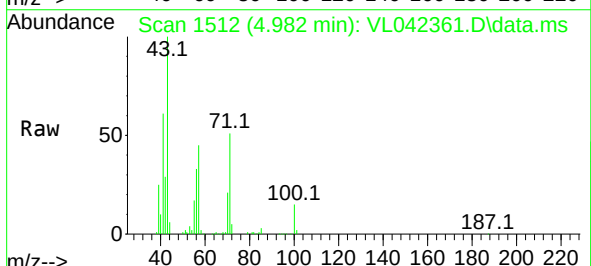
Acq: 17 Apr 2025 17:17

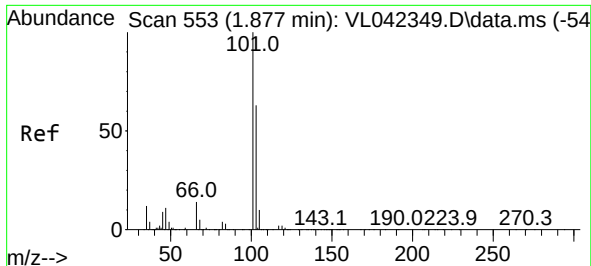
Tgt Ion: 43 Resp: 49177

Ion Ratio Lower Upper

43 100

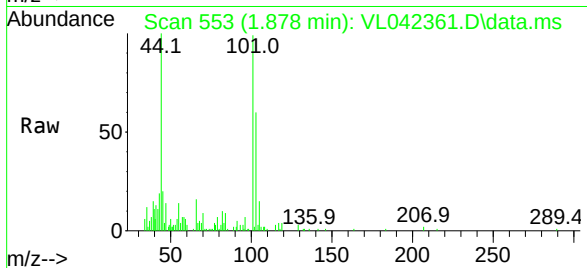
57 51.2 39.9 59.9





#11
Trichlorofluoromethane
Concen: 0.235 ppbv
RT: 1.878 min Scan# 505
Delta R.T. 0.000 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

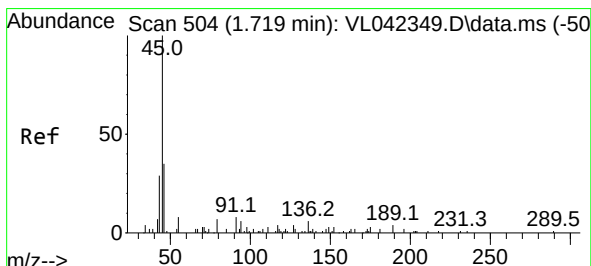
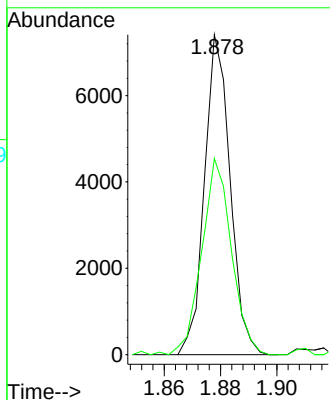
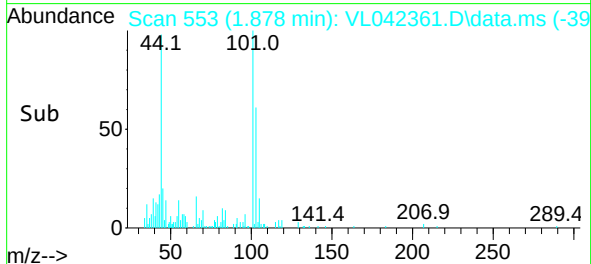
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025



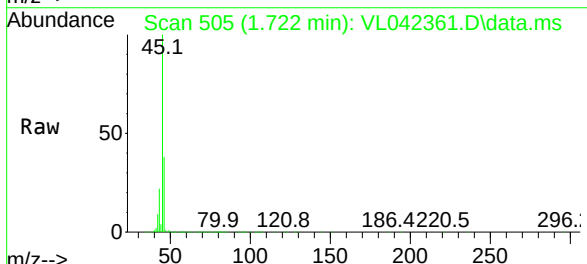
Tgt Ion:101 Resp: 4689
Ion Ratio Lower Upper
101 100
103 61.3 50.1 75.1

Manual Integrations
APPROVED

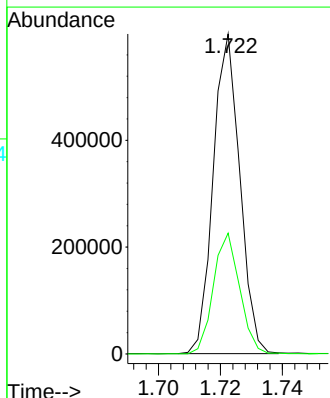
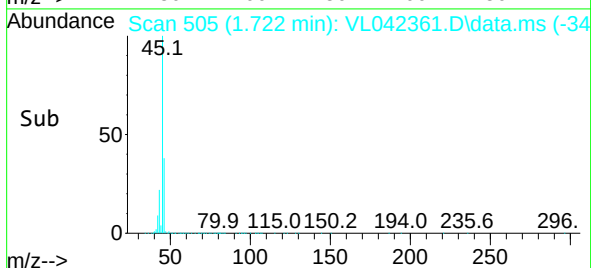
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

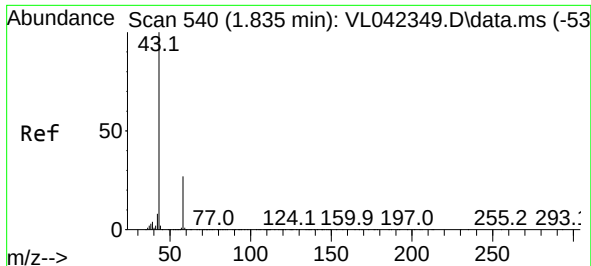


#13
Ethanol
Concen: 247.060 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.004 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17



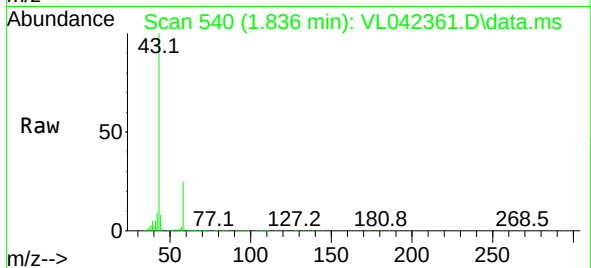
Tgt Ion: 45 Resp: 357077
Ion Ratio Lower Upper
45 100
46 37.6 21.9 87.7





#15
 Acetone
 Concen: 5.264 ppbv
 RT: 1.836 min Scan# 540
 Delta R.T. 0.000 min
 Lab File: VL042361.D
 Acq: 17 Apr 2025 17:17

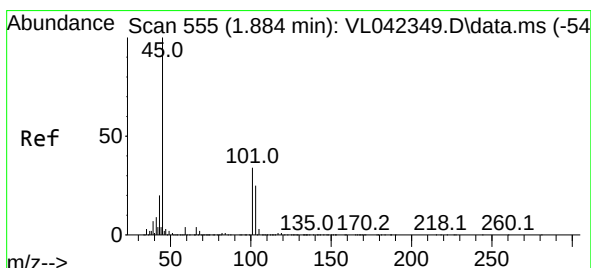
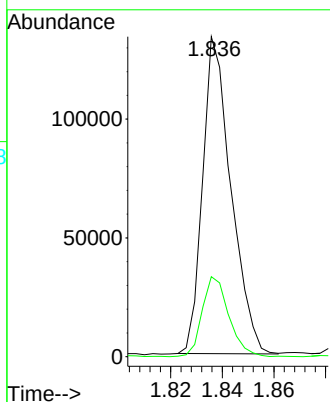
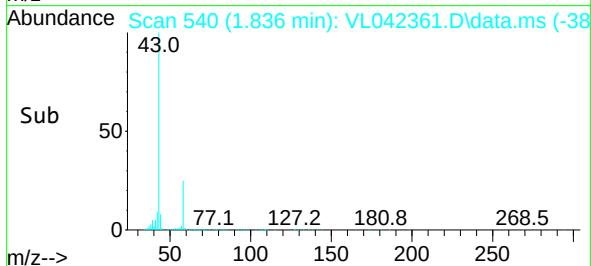
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B1-4-3252025



Tgt Ion: 43 Resp: 10227
 Ion Ratio Lower Upper
 43 100
 58 23.6 22.4 33.6

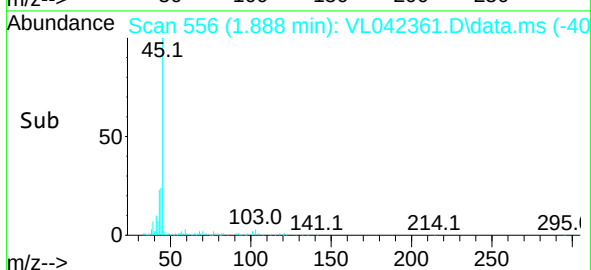
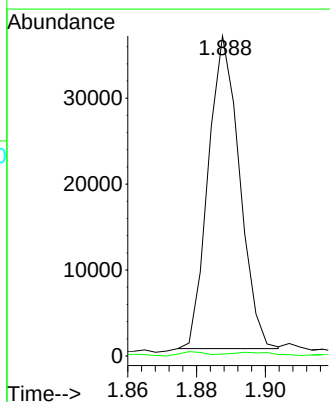
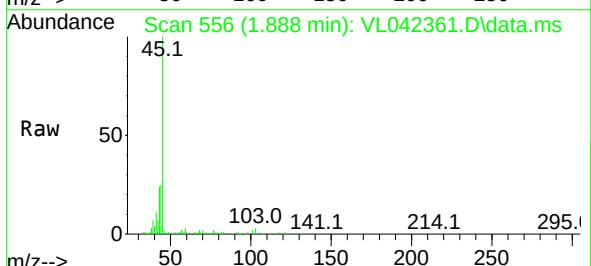
Manual Integrations
 APPROVED

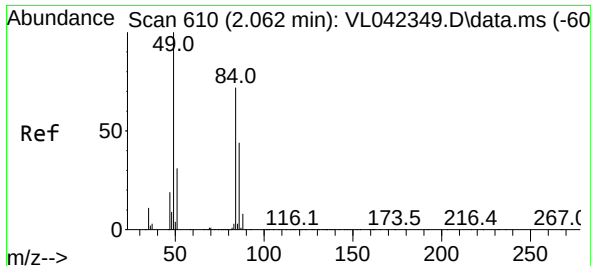
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#19
 Isopropyl Alcohol
 Concen: 2.133 ppbv
 RT: 1.888 min Scan# 556
 Delta R.T. 0.004 min
 Lab File: VL042361.D
 Acq: 17 Apr 2025 17:17

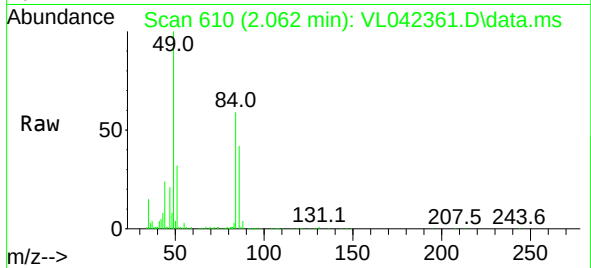
Tgt Ion: 45 Resp: 23025
 Ion Ratio Lower Upper
 45 100
 58 105.0 34.5 51.7#





#20
Methylene Chloride
Concen: 2.782 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

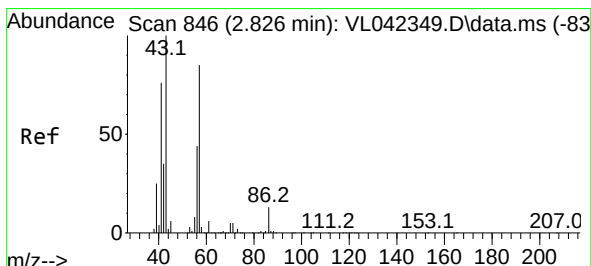
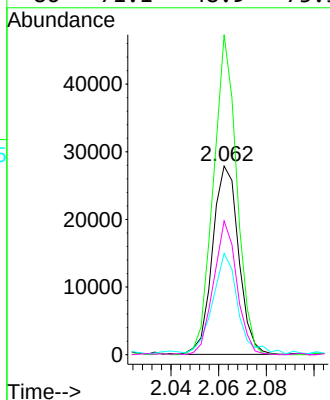
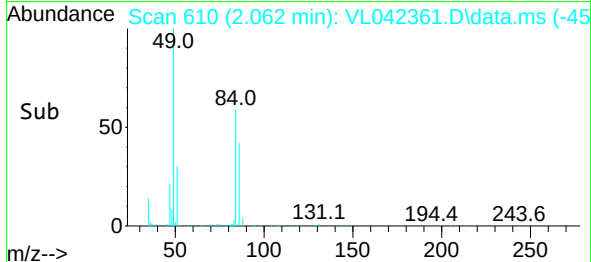
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025



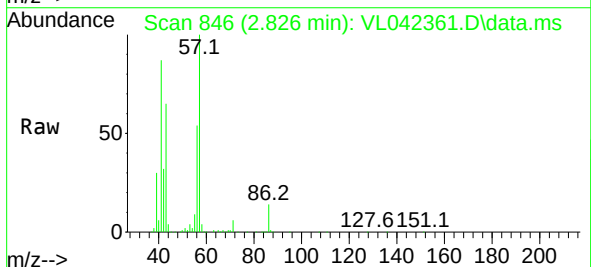
Tgt Ion: 84 Resp: 2116
Ion Ratio Lower Upper
84 100
49 170.0 111.6 167.4
51 52.3 35.1 52.7
86 71.1 48.9 73.3

Manual Integrations
APPROVED

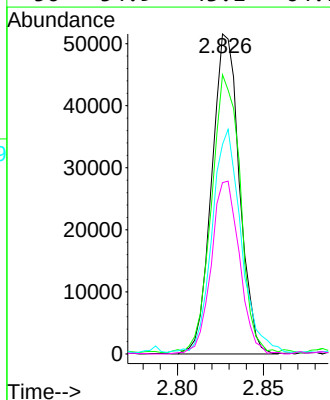
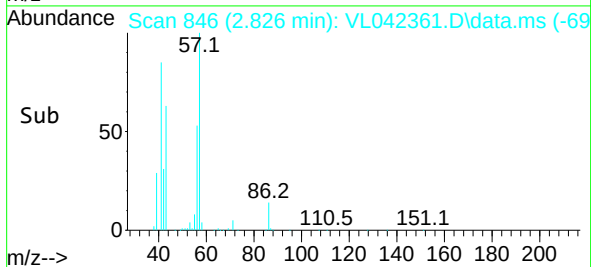
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

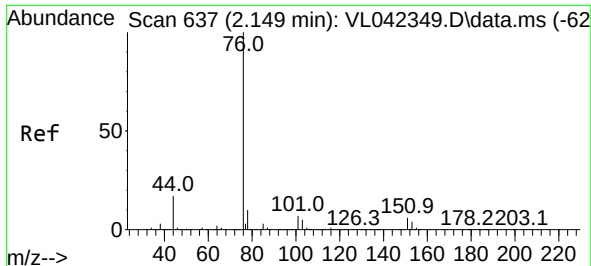


#26
Hexane
Concen: 2.977 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17



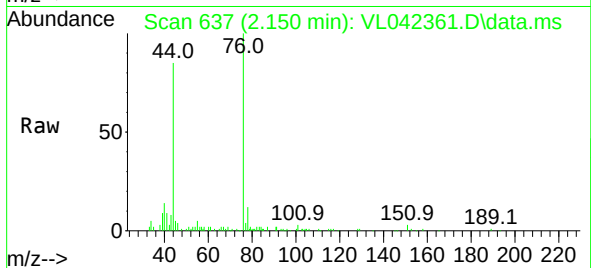
Tgt Ion: 57 Resp: 57707
Ion Ratio Lower Upper
57 100
41 91.6 77.9 116.9
43 72.6 208.4 312.6#
56 54.9 43.1 64.7





#27
Carbon Disulfide
Concen: 0.626 ppbv
RT: 2.150 min Scan# 61
Delta R.T. 0.000 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

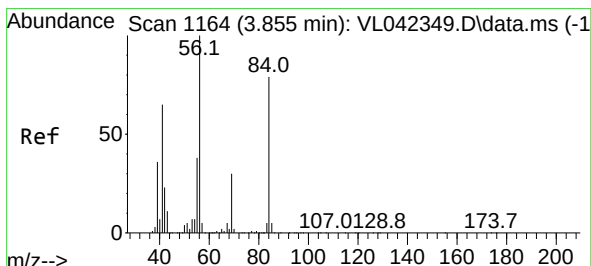
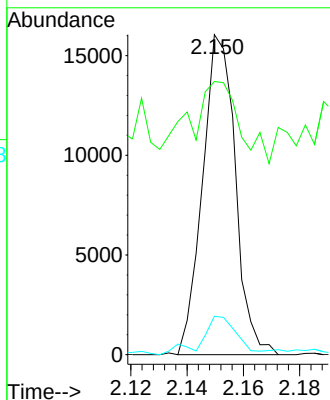
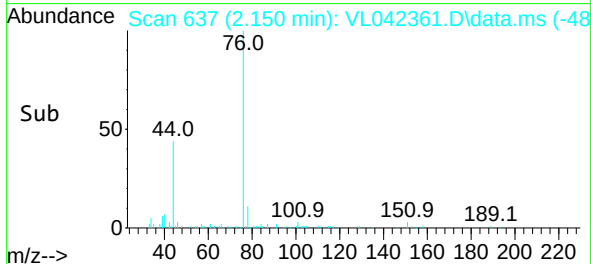
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025



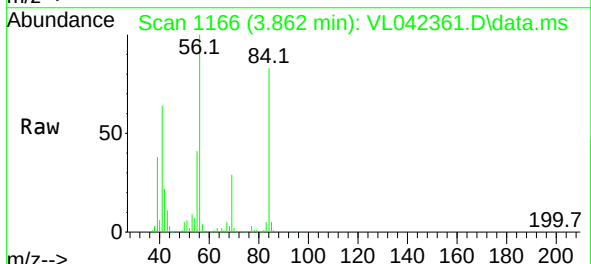
Tgt Ion: 76 Resp: 12989
Ion Ratio Lower Upper
76 100
44 112.3 15.5 23.3
78 16.4 9.3 13.9

Manual Integrations
APPROVED

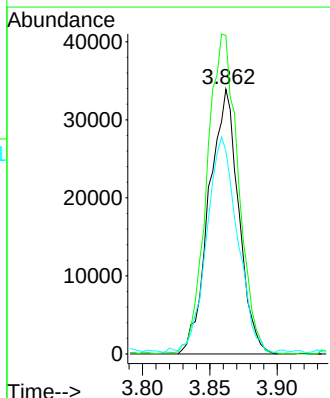
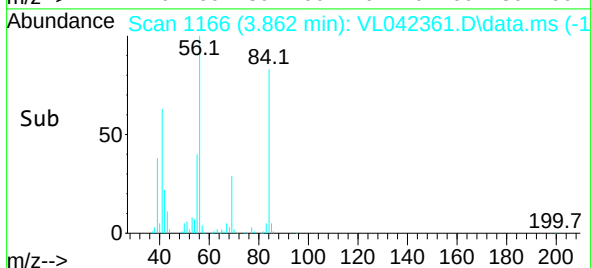
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

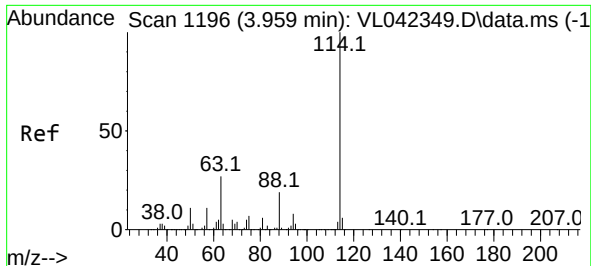


#30
Cyclohexane
Concen: 3.319 ppbv
RT: 3.862 min Scan# 1166
Delta R.T. 0.007 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17



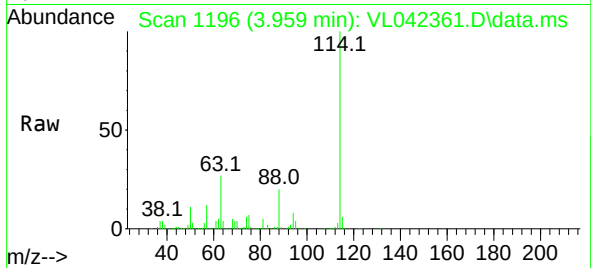
Tgt Ion: 84 Resp: 52016
Ion Ratio Lower Upper
84 100
56 127.7 101.0 151.4
41 84.4 67.4 101.0





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. 0.000 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

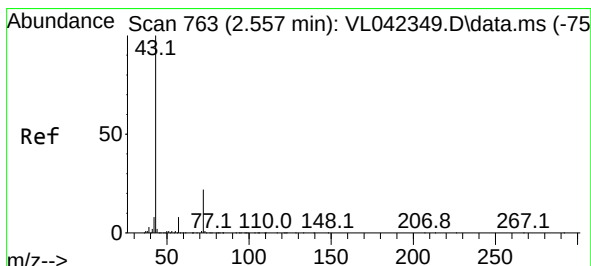
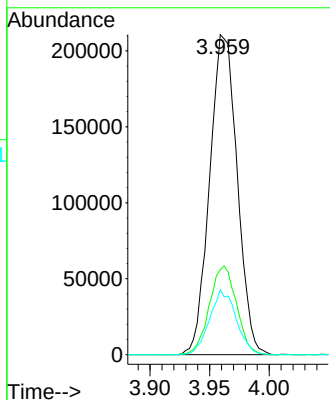
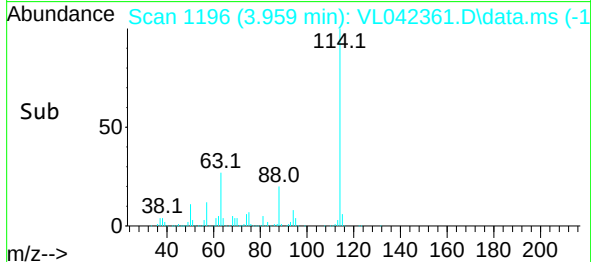
Instrument : MSVOA_L
ClientSampleId : IA-B1-4-3252025



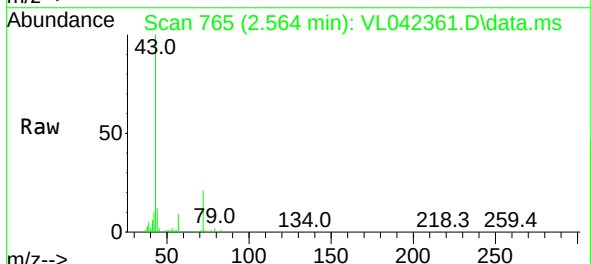
Tgt Ion:114 Resp: 33919
Ion Ratio Lower Upper
114 100
63 27.2 21.8 32.6
88 19.5 15.5 23.3

Manual Integrations
APPROVED

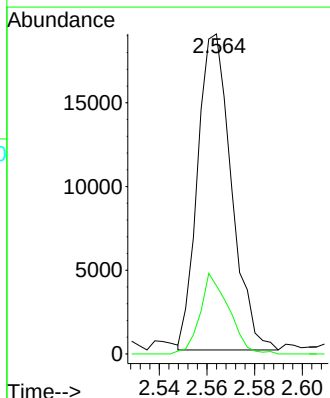
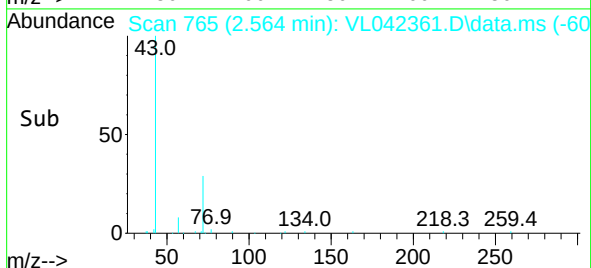
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

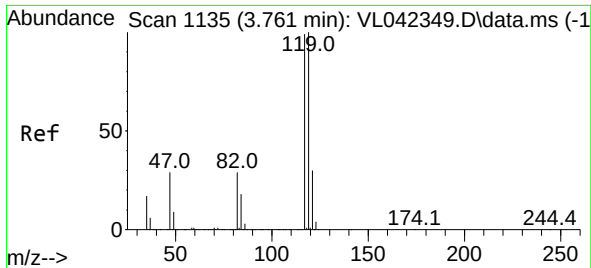


#34
2-Butanone
Concen: 0.693 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.007 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17



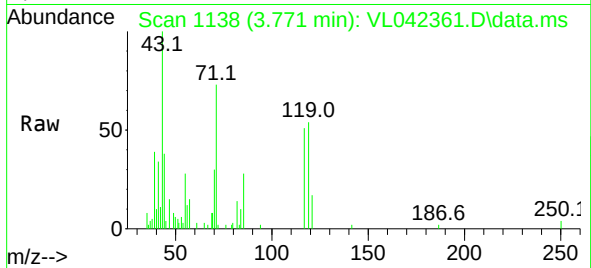
Tgt Ion: 43 Resp: 18598
Ion Ratio Lower Upper
43 100
72 21.7 18.2 27.2





#35
Carbon Tetrachloride
Concen: 0.081 ppbv m
RT: 3.771 min Scan# 1135
Delta R.T. 0.010 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

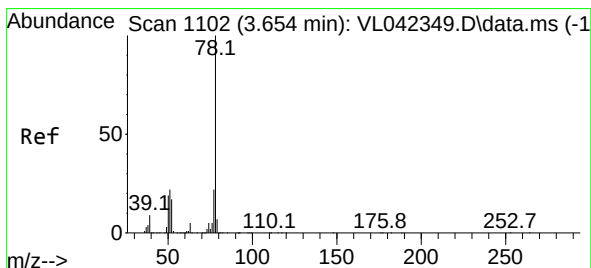
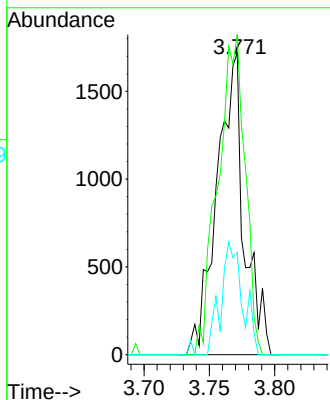
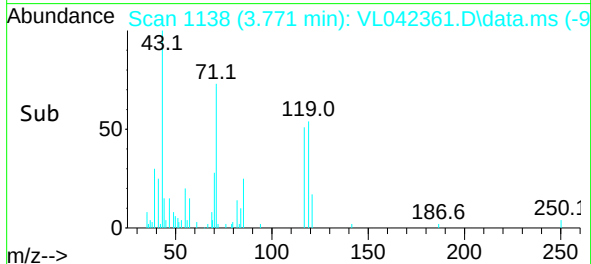
Instrument : MSVOA_L
ClientSampleId : IA-B1-4-3252025



Tgt Ion: 117 Resp: 249
Ion Ratio Lower Upper
117 100
119 106.0 80.5 120.7
121 33.8 24.2 36.2

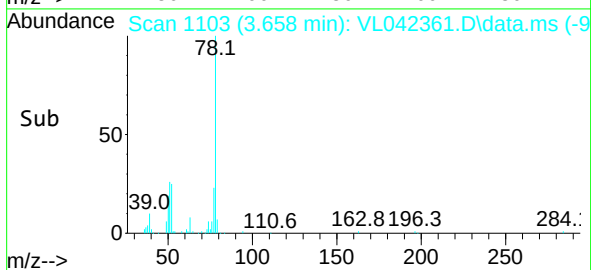
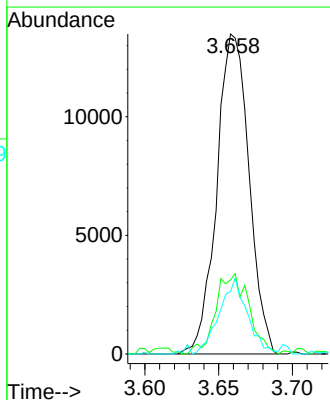
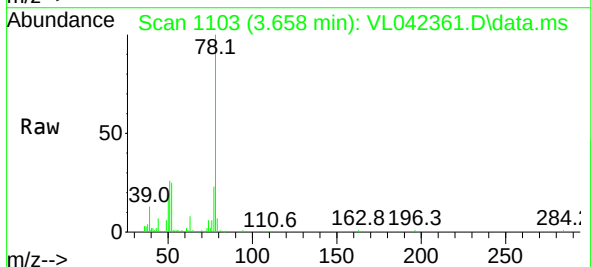
Manual Integrations
APPROVED

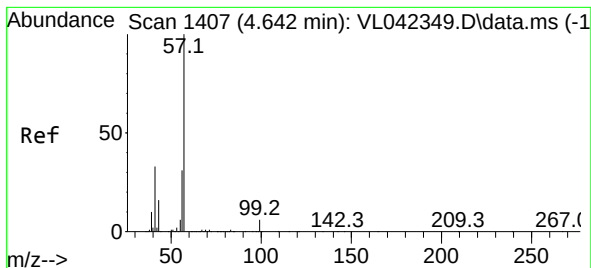
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#36
Benzene
Concen: 0.561 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. 0.004 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion: 78 Resp: 20521
Ion Ratio Lower Upper
78 100
77 23.1 17.4 26.0
50 18.7 15.5 23.3





#44

2,2,4-Trimethylpentane

Concen: 0.185 ppbv m

RT: 4.642 min Scan# 1407

Delta R.T. 0.000 min

Lab File: VL042361.D

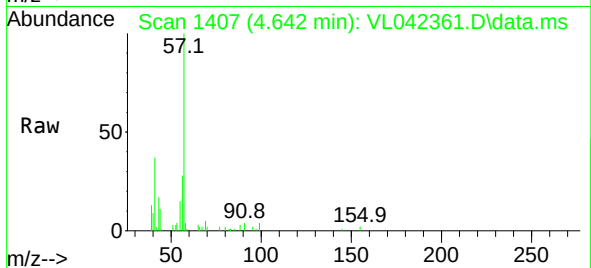
Acq: 17 Apr 2025 17:17

Instrument :

MSVOA_L

ClientSampleId :

IA-B1-4-3252025



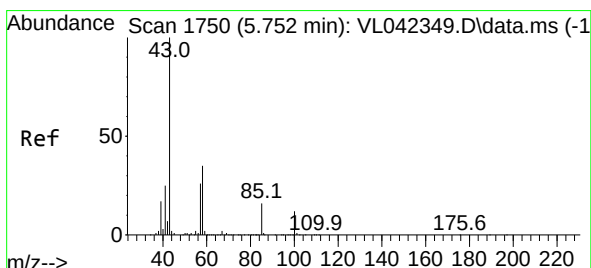
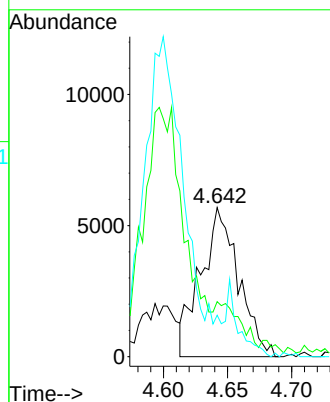
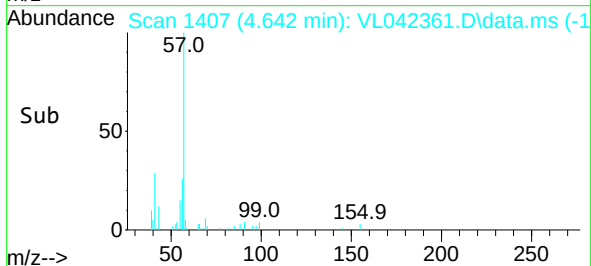
Tgt Ion:	57	Resp:	1167
Ion Ratio	100	Lower	Upper
57	100		
41	0.0	27.2	40.8
56	0.0	25.7	38.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#50

4-Methyl-2-Pentanone

Concen: 19.593 ppbv

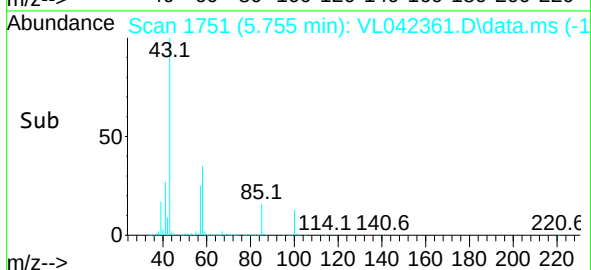
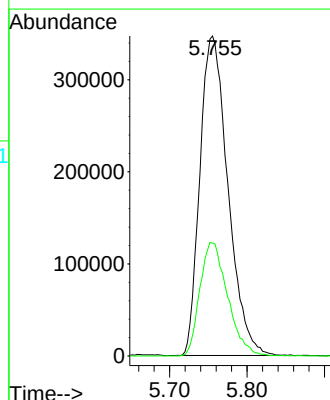
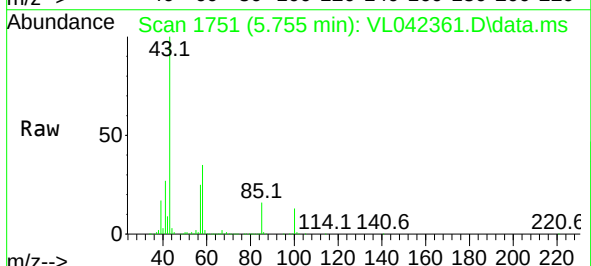
RT: 5.755 min Scan# 1751

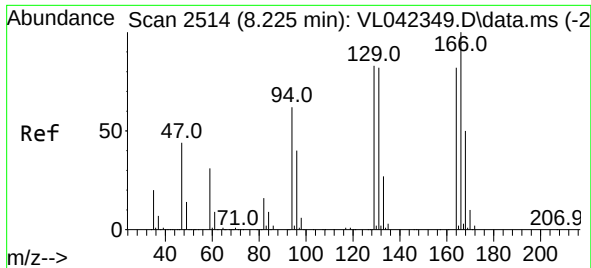
Delta R.T. 0.004 min

Lab File: VL042361.D

Acq: 17 Apr 2025 17:17

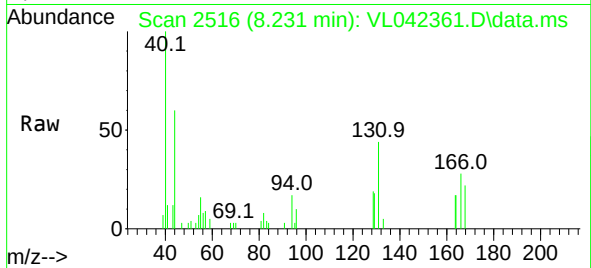
Tgt Ion:	43	Resp:	873418
Ion Ratio	100	Lower	Upper
43	100		
58	35.2	28.6	43.0





#52
Tetrachloroethene
Concen: 0.053 ppbv m
RT: 8.231 min Scan# 2115
Delta R.T. 0.007 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

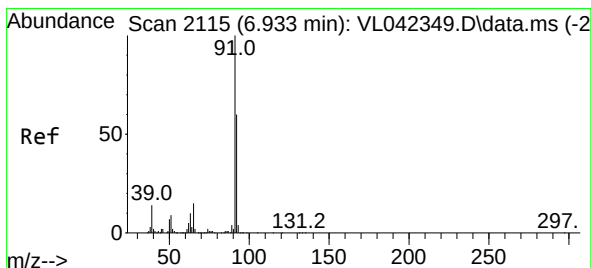
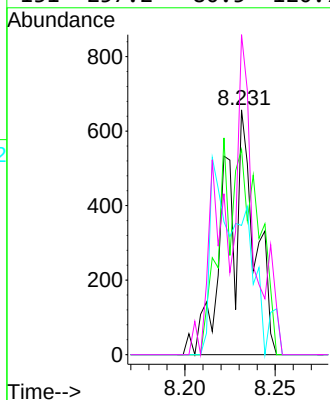
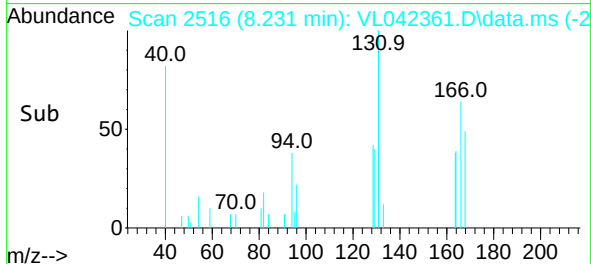
Instrument : MSVOA_L
ClientSampleId : IA-B1-4-3252025



Tgt Ion: 164 Resp: 740
Ion Ratio Lower Upper
164 100
166 165.0 98.2 147.2
129 103.9 81.8 122.8
131 257.2 80.5 120.7#

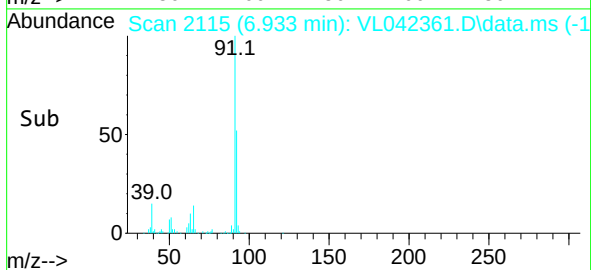
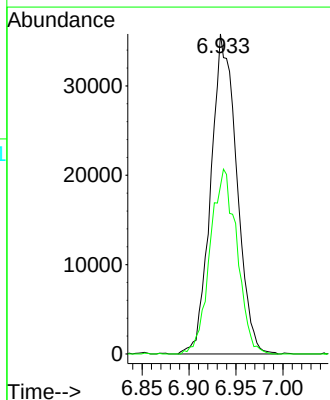
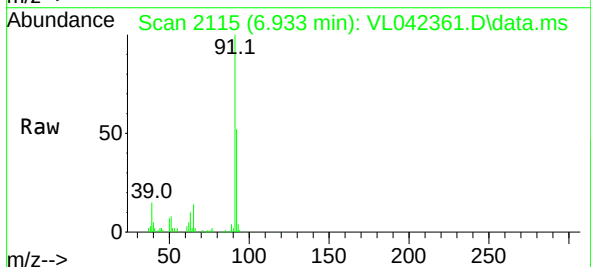
Manual Integrations
APPROVED

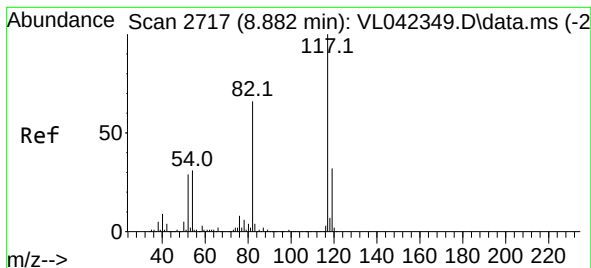
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#53
Toluene
Concen: 1.565 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. 0.000 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion: 91 Resp: 68700
Ion Ratio Lower Upper
91 100
92 59.9 48.2 72.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.885 min Scan# 2717

Delta R.T. 0.004 min

Lab File: VL042361.D

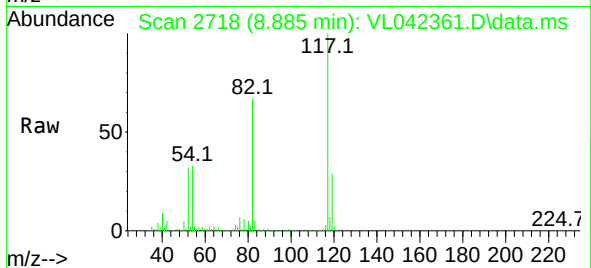
Acq: 17 Apr 2025 17:17

Instrument :

MSVOA_L

ClientSampleId :

IA-B1-4-3252025



Tgt Ion: 117 Resp: 30350

Ion Ratio Lower Upper

117 100

82 70.1 57.8 86.6

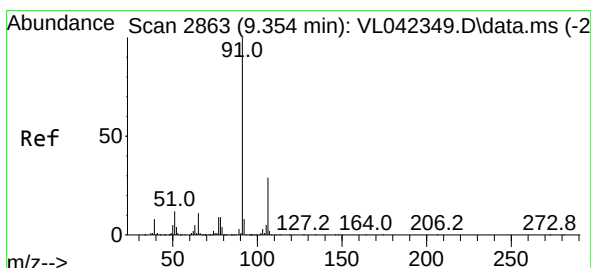
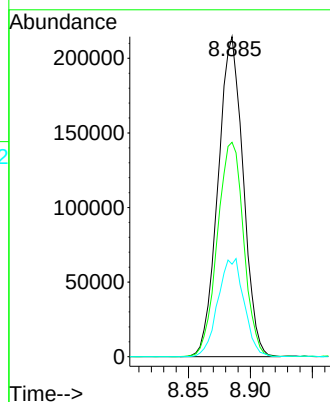
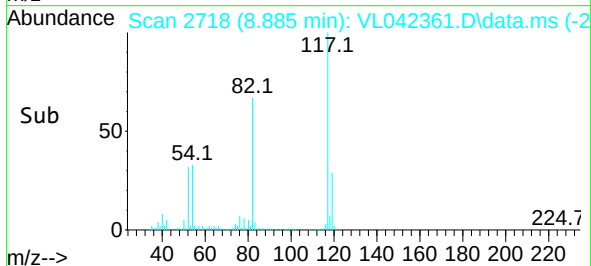
119 32.1 25.2 37.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#58

Ethyl Benzene

Concen: 0.944 ppbv

RT: 9.361 min Scan# 2865

Delta R.T. 0.007 min

Lab File: VL042361.D

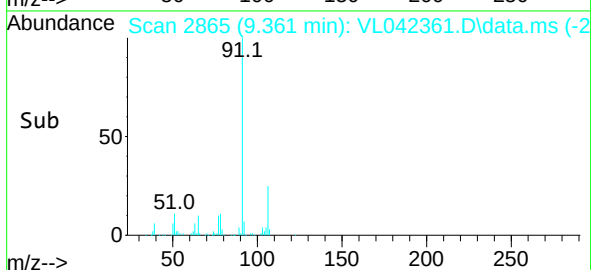
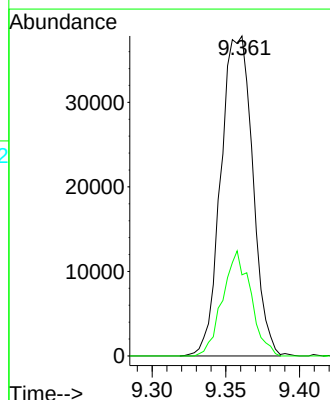
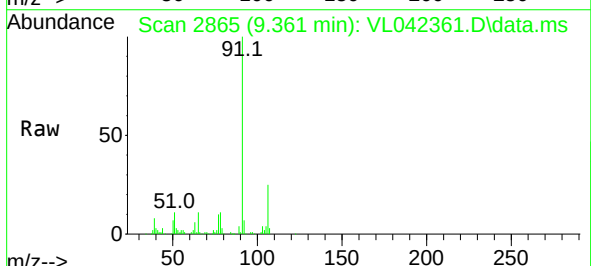
Acq: 17 Apr 2025 17:17

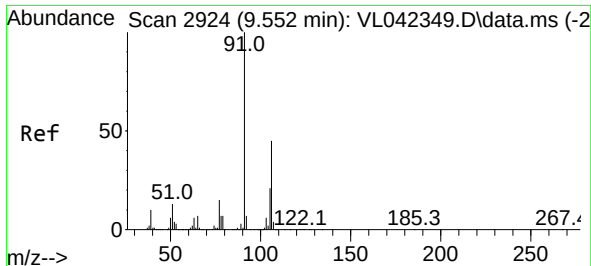
Tgt Ion: 91 Resp: 56772

Ion Ratio Lower Upper

91 100

106 25.4 23.0 34.4





#59

m/p-Xylene

Concen: 9.382 ppbv

RT: 9.536 min Scan# 2919

Delta R.T. -0.016 min

Lab File: VL042361.D

Acq: 17 Apr 2025 17:17

Instrument :

MSVOA_L

ClientSampleId :

IA-B1-4-3252025

Tgt Ion: 91 Resp: 45449

Ion Ratio Lower Upper

91 100

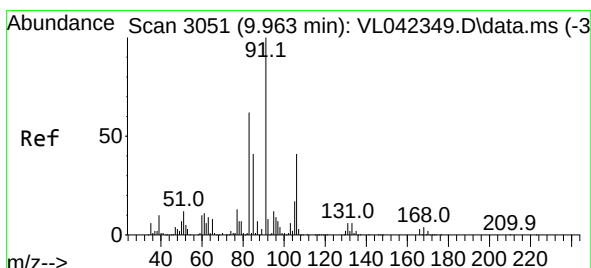
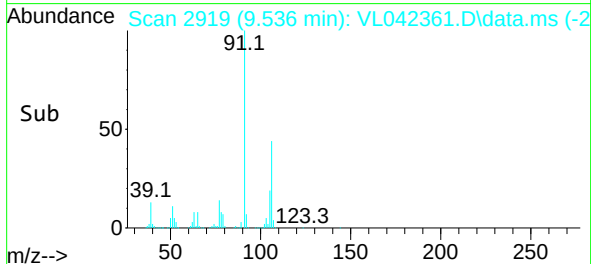
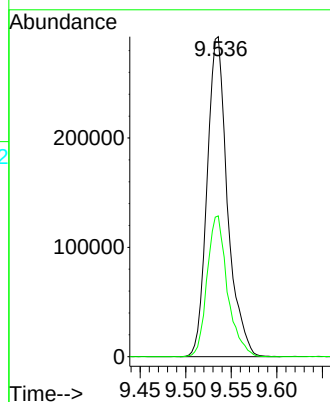
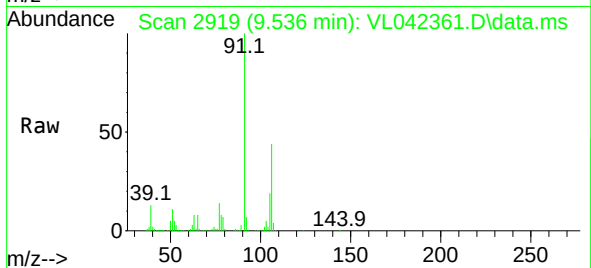
106 44.0 35.4 53.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#60

o-Xylene

Concen: 1.966 ppbv

RT: 9.966 min Scan# 3052

Delta R.T. 0.004 min

Lab File: VL042361.D

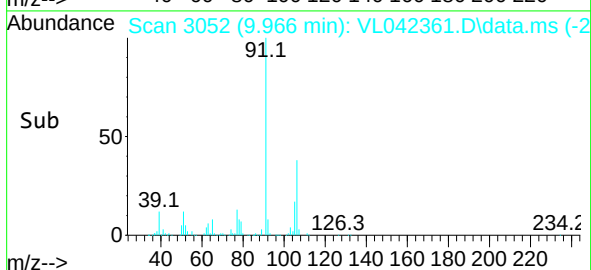
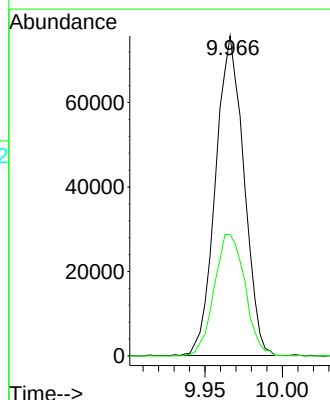
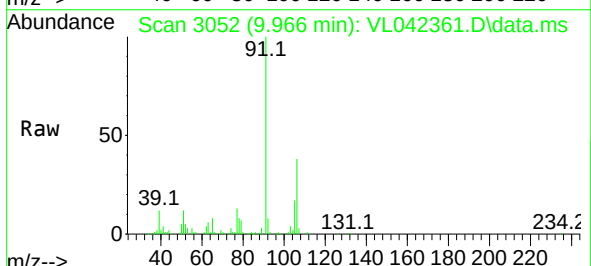
Acq: 17 Apr 2025 17:17

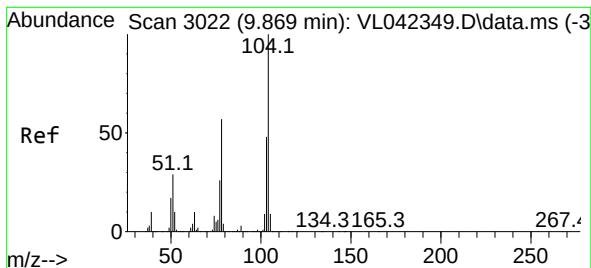
Tgt Ion: 91 Resp: 95896

Ion Ratio Lower Upper

91 100

106 41.6 21.1 63.4





#61

Styrene

Concen: 1.629 ppbv

RT: 9.872 min Scan# 3022

Delta R.T. 0.004 min

Lab File: VL042361.D

Acq: 17 Apr 2025 17:17

Instrument :

MSVOA_L

ClientSampleId :

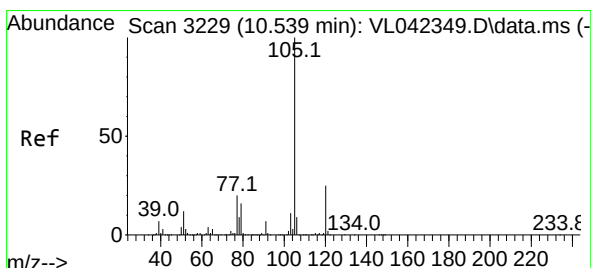
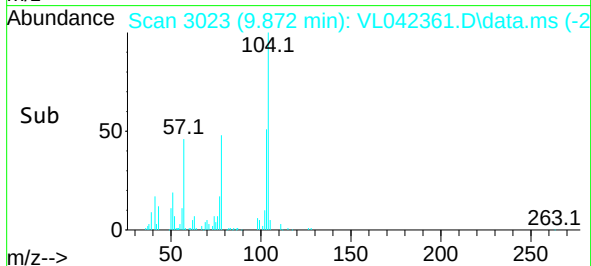
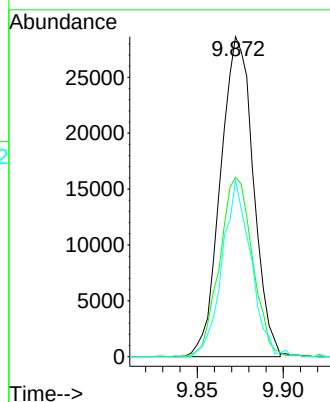
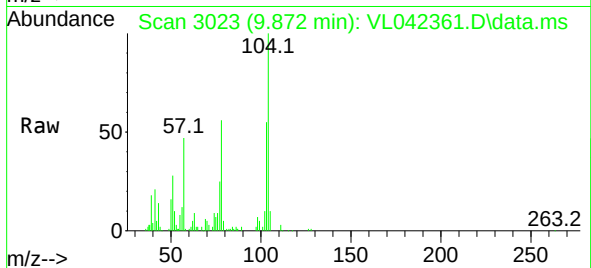
IA-B1-4-3252025

Tgt Ion:104	Resp:	3793
Ion Ratio	Lower	Upper
104	100	
78	56.6	44.6 66.8
103	48.5	37.4 56.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#62

Isopropylbenzene

Concen: 0.148 ppbv

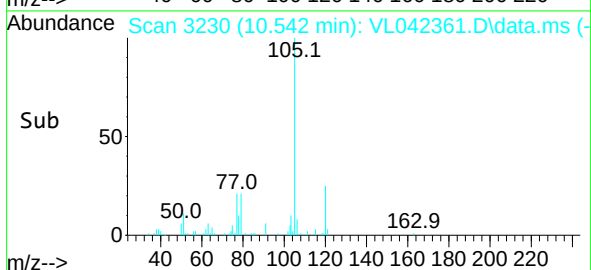
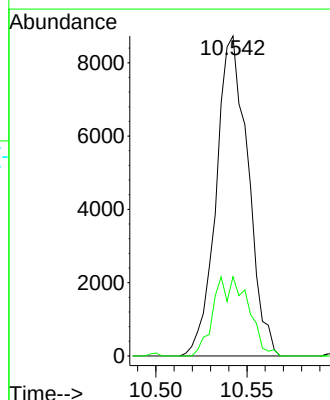
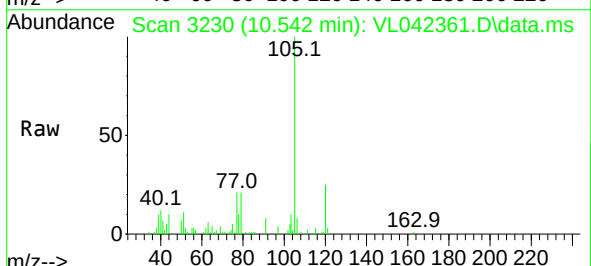
RT: 10.542 min Scan# 3230

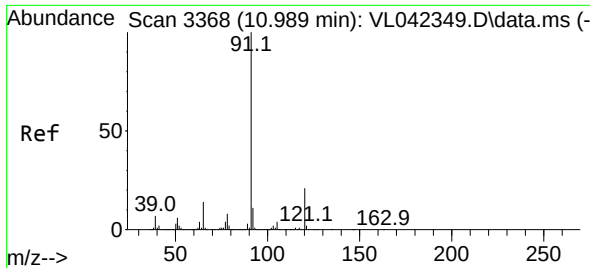
Delta R.T. 0.004 min

Lab File: VL042361.D

Acq: 17 Apr 2025 17:17

Tgt Ion:105	Resp:	10580
Ion Ratio	Lower	Upper
105	100	
120	27.2	19.8 29.8





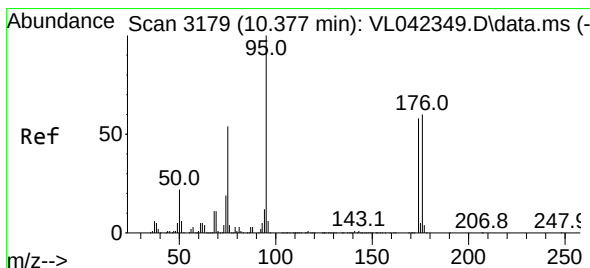
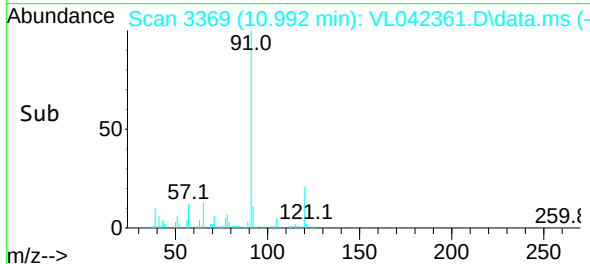
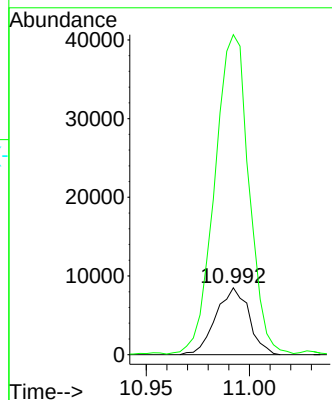
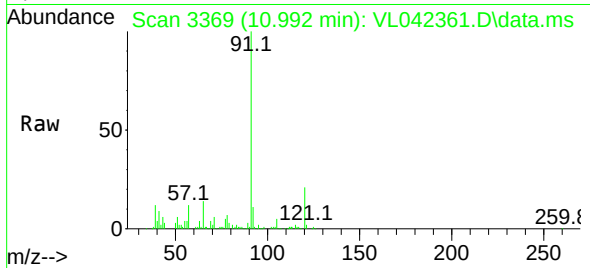
#64
n-propylbenzene
Concen: 0.527 ppbv
RT: 10.992 min Scan# 3179
Delta R.T. 0.004 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

Tgt Ion:120 Resp: 948
Ion Ratio Lower Upper
120 100
91 500.9 392.4 588.6

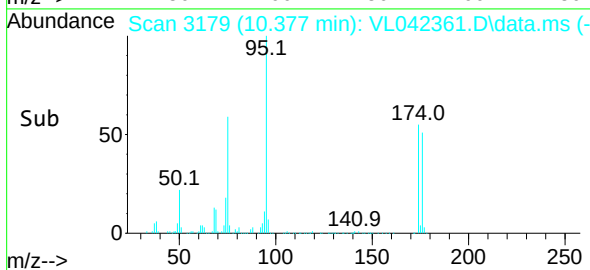
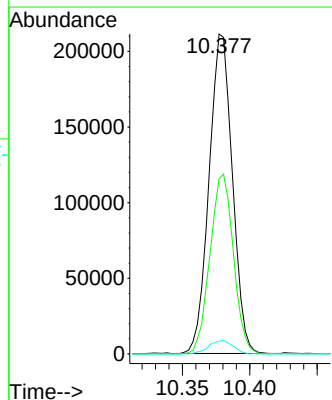
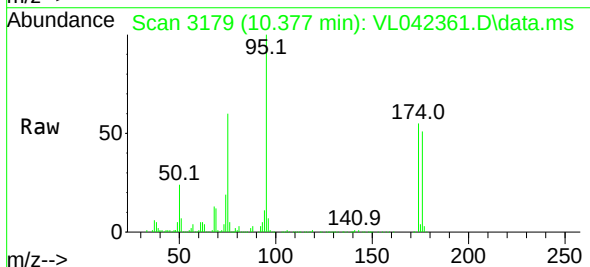
Manual Integrations
APPROVED

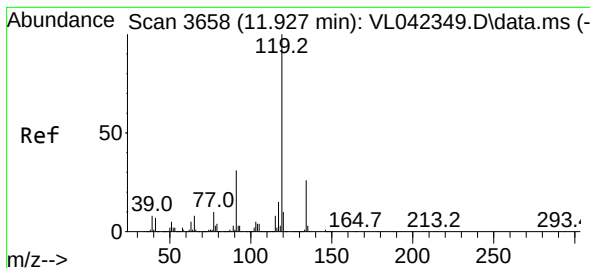
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 10.201 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.000 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion: 95 Resp: 254412
Ion Ratio Lower Upper
95 100
174 56.7 48.5 72.7
175 4.4 3.7 5.5





#69

p-Isopropyltoluene

Concen: 0.157 ppbv

RT: 11.928 min Scan# 3658

Delta R.T. 0.000 min

Lab File: VL042361.D

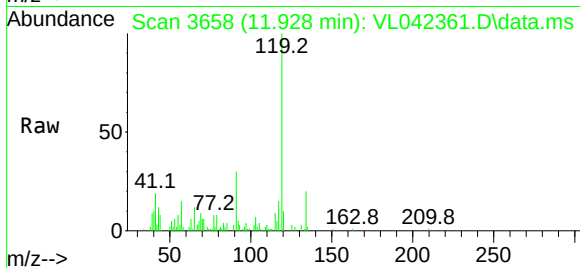
Acq: 17 Apr 2025 17:17

Instrument :

MSVOA_L

ClientSampleId :

IA-B1-4-3252025



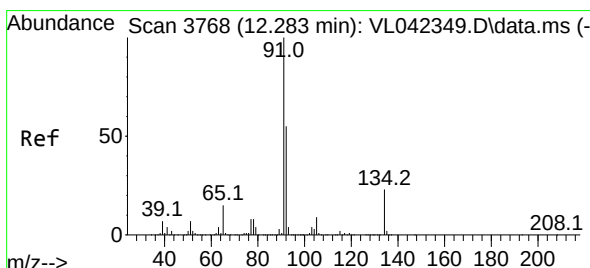
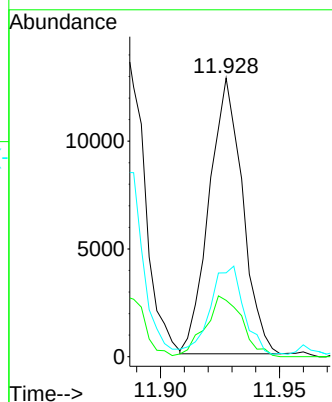
Tgt Ion: 119 Resp: 12502

Ion	Ratio	Lower	Upper
119	100		
134	24.0	20.0	30.0
91	30.2	24.4	36.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#70

n-Butylbenzene

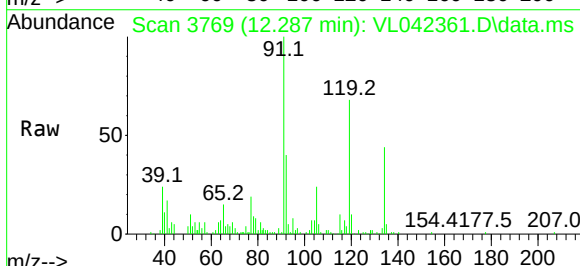
Concen: 0.345 ppbv

RT: 12.287 min Scan# 3769

Delta R.T. 0.004 min

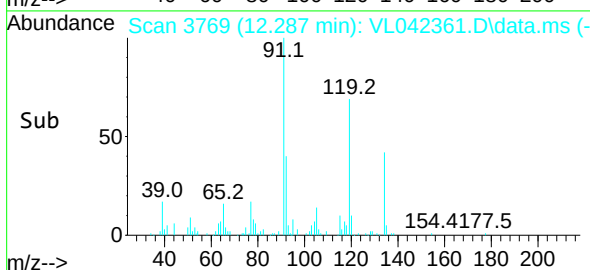
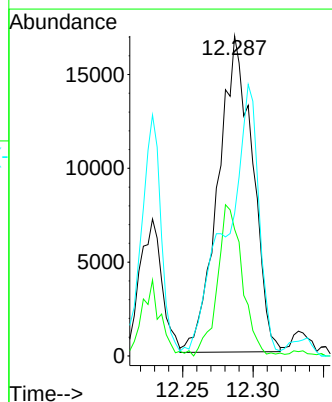
Lab File: VL042361.D

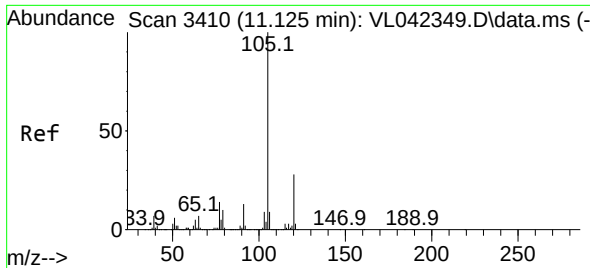
Acq: 17 Apr 2025 17:17



Tgt Ion: 91 Resp: 28567

Ion	Ratio	Lower	Upper
91	100		
92	35.2	44.2	66.4#
134	84.2	18.2	27.4#





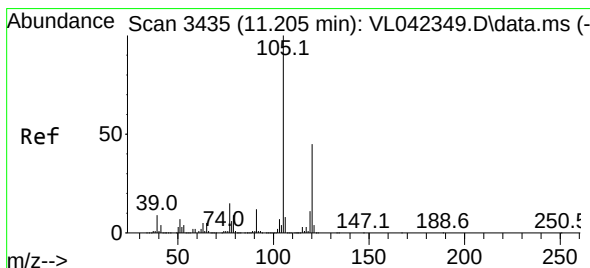
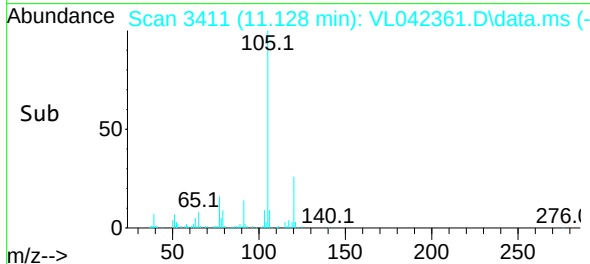
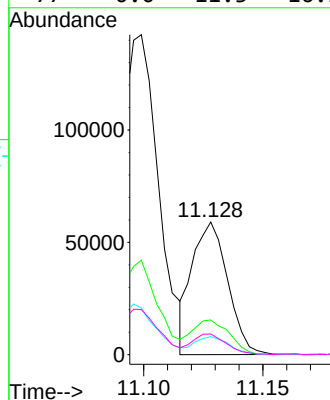
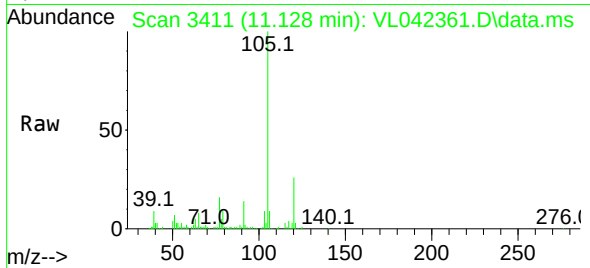
#72
4-Ethyltoluene
Concen: 1.028 ppbv
RT: 11.128 min Scan# 3410
Delta R.T. 0.004 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Instrument :
MSVOA_L
ClientSampleId :
LA-B1-4-3252025

Tgt Ion:105 Resp: 61300
Ion Ratio Lower Upper
105 100
120 0.0 23.2 34.8
91 0.0 10.4 15.6
77 0.0 11.3 16.9

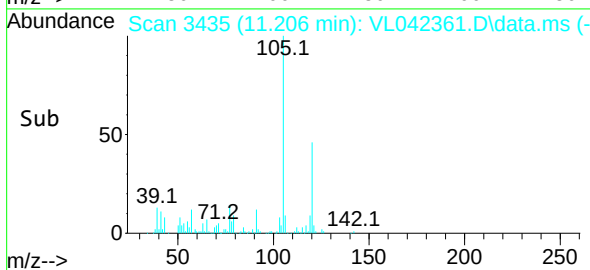
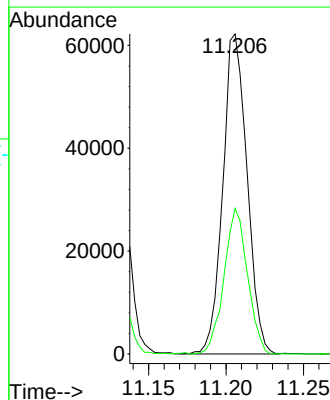
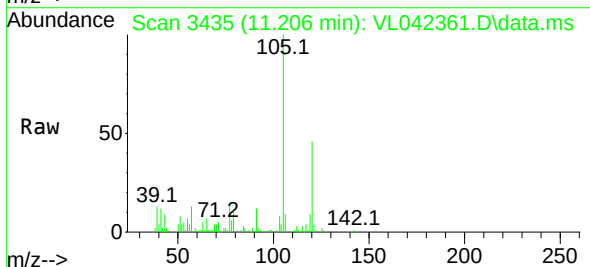
Manual Integrations
APPROVED

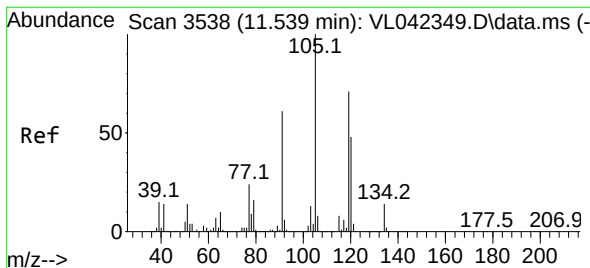
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#73
1,3,5-Trimethylbenzene
Concen: 1.287 ppbv
RT: 11.206 min Scan# 3435
Delta R.T. 0.000 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion:105 Resp: 67763
Ion Ratio Lower Upper
105 100
120 45.4 35.6 53.4





#74

1,2,4-Trimethylbenzene

Concen: 3.819 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. 0.000 min

Lab File: VL042361.D

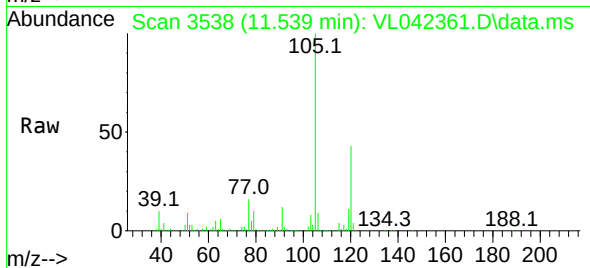
Acq: 17 Apr 2025 17:17

Instrument :

MSVOA_L

ClientSampleId :

IA-B1-4-3252025



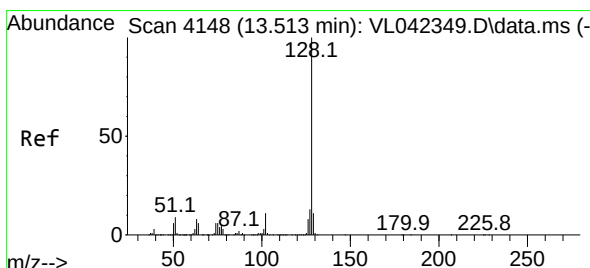
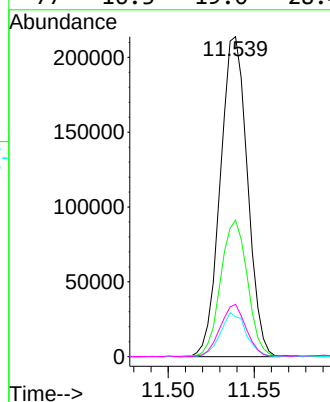
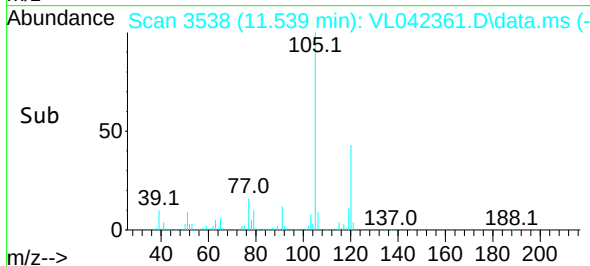
Tgt Ion:	105	Resp:	234839
Ion Ratio	Lower	Upper	
105	100		
120	42.6	38.1	57.1
91	12.4	48.8	73.2
77	16.3	19.0	28.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#79

Naphthalene

Concen: 0.601 ppbv

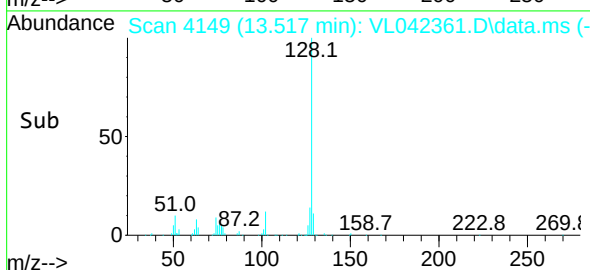
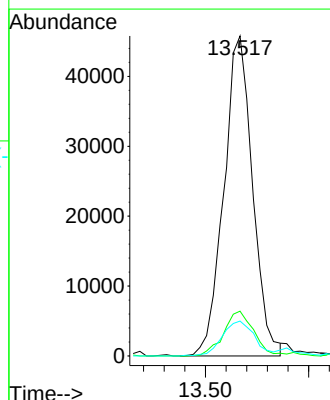
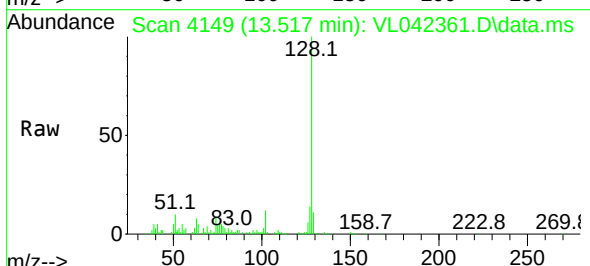
RT: 13.517 min Scan# 4149

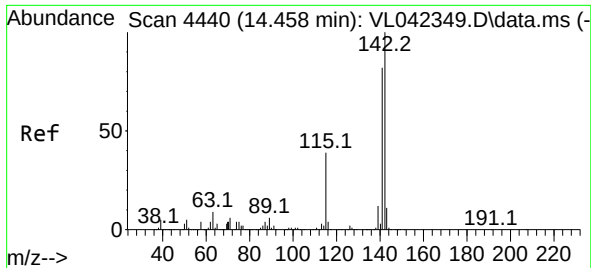
Delta R.T. 0.004 min

Lab File: VL042361.D

Acq: 17 Apr 2025 17:17

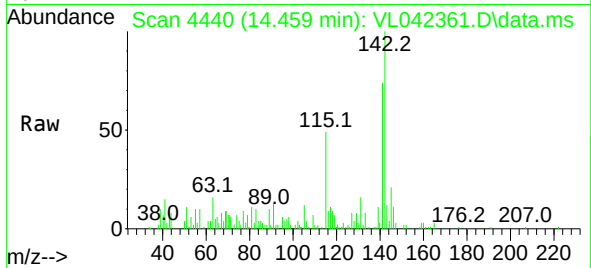
Tgt Ion:	128	Resp:	44224
Ion Ratio	Lower	Upper	
128	100		
127	14.0	10.6	15.8
129	10.9	8.6	12.8





#80
Naphthalene, 2-methyl-
Concen: 0.248 ppbv
RT: 14.459 min Scan# 44
Delta R.T. 0.000 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

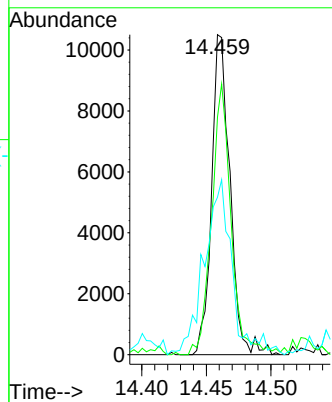
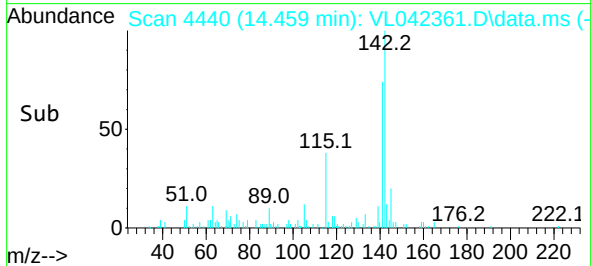
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025



Tgt Ion:	142	Resp:	10408
Ion Ratio	Lower	Upper	
142	100		
141	89.8	66.8	100.2
115	82.6	33.4	50.2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042361.D
 Acq On : 17 Apr 2025 17:17
 Operator : SY/MD
 Sample : Q1668-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B1-4-3252025

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 3

Min Area: 3 % of largest Peak

Start Thrs: 0.001

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

Signal : TIC: VL042361.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.431	410	415	421	rBV	4188320	4703442	100.00%	17.886%
2	1.561	451	455	458	rBV2	184256	96254	2.05%	0.366%
3	1.622	470	474	478	rVB	115166	60281	1.28%	0.229%
4	1.722	500	505	513	rBV	1047147	621947	13.22%	2.365%
5	1.839	536	541	549	rBV2	224029	226721	4.82%	0.862%
6	1.888	549	556	560	rVV2	56899	47625	1.01%	0.181%
7	1.965	575	580	585	rVB	86782	61364	1.30%	0.233%
8	2.062	599	610	615	rBV	147400	122759	2.61%	0.467%
9	2.477	731	738	745	rVB	82814	90361	1.92%	0.344%
10	2.625	776	784	794	rVB2	70044	77146	1.64%	0.293%
11	2.791	827	835	841	rBV	424038	451417	9.60%	1.717%
12	2.829	841	847	858	rVB2	222619	254601	5.41%	0.968%
13	3.231	962	971	980	rVB2	83879	111228	2.36%	0.423%
14	3.658	1092	1103	1111	rBV2	33381	52413	1.11%	0.199%
15	3.862	1155	1166	1177	rBV2	187100	305245	6.49%	1.161%
16	3.962	1185	1197	1211	rBV2	575634	929855	19.77%	3.536%
17	4.056	1213	1226	1233	rVV2	160886	288856	6.14%	1.098%
18	4.101	1233	1240	1251	rVB3	76938	128977	2.74%	0.490%
19	4.273	1280	1293	1308	rVB2	193156	365708	7.78%	1.391%
20	4.451	1333	1348	1357	rBV4	51494	102926	2.19%	0.391%
21	4.525	1357	1371	1384	rBV7	43148	106792	2.27%	0.406%
22	4.600	1384	1394	1405	rVB6	61062	116552	2.48%	0.443%
23	4.985	1497	1513	1526	rBV4	104222	223848	4.76%	0.851%
24	5.671	1707	1725	1738	rBV4	90227	236367	5.03%	0.899%
25	5.755	1738	1751	1778	rVB3	925078	2355932	50.09%	8.959%
26	6.937	2101	2116	2133	rBV3	93110	199433	4.24%	0.758%
27	8.309	2521	2540	2552	rBV9	43693	110187	2.34%	0.419%
28	8.885	2703	2718	2728	rBV2	776934	1181830	25.13%	4.494%
29	9.147	2792	2799	2809	rBV2	50042	72966	1.55%	0.277%
30	9.358	2853	2864	2877	rBV2	102277	166035	3.53%	0.631%
31	9.532	2901	2918	2935	rBV	853462	1348701	28.67%	5.129%
32	9.630	2935	2948	2964	rVV	345811	522696	11.11%	1.988%
33	9.720	2964	2976	2977	rVV3	67699	88742	1.89%	0.337%
34	9.730	2977	2979	2991	rVB4	73175	92423	1.97%	0.351%
35	9.866	3007	3021	3033	rBV5	163949	279364	5.94%	1.062%
36	9.966	3038	3052	3064	rBV	210380	309472	6.58%	1.177%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042361.D
 Acq On : 17 Apr 2025 17:17
 Operator : SY/MD
 Sample : Q1668-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B1-4-3252025

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 3

Min Area: 3 % of largest Peak

Start Thrs: 0.001

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

37	10.102	3087	3094	3102	rVB4	47215	72355	1.54%	0.275%
38	10.377	3160	3179	3189	rBV2	967192	1392990	29.62%	5.297%
39	10.432	3189	3196	3204	rVB5	42246	55865	1.19%	0.212%
40	10.772	3289	3301	3306	rBV7	42951	68360	1.45%	0.260%
41	10.859	3321	3328	3335	rVB3	135757	176169	3.75%	0.670%
42	10.902	3335	3341	3350	rVB2	51149	67711	1.44%	0.257%
43	10.992	3353	3369	3383	rBV3	108016	186661	3.97%	0.710%
44	11.063	3383	3391	3395	rBV3	65381	80002	1.70%	0.304%
45	11.099	3395	3402	3407	rVV	380566	427871	9.10%	1.627%
46	11.128	3407	3411	3420	rVB	162768	182924	3.89%	0.696%
47	11.206	3420	3435	3442	rBV4	227698	281495	5.98%	1.070%
48	11.261	3442	3452	3454	rBV3	50937	57149	1.22%	0.217%
49	11.283	3454	3459	3464	rVV2	74644	83862	1.78%	0.319%
50	11.316	3464	3469	3472	rVV	85475	87860	1.87%	0.334%
51	11.339	3472	3476	3483	rVB	124921	132611	2.82%	0.504%
52	11.406	3490	3497	3502	rBV	99831	111917	2.38%	0.426%
53	11.539	3523	3538	3548	rBV	635595	759797	16.15%	2.889%
54	11.594	3548	3555	3566	rVB7	46718	76611	1.63%	0.291%
55	11.724	3584	3595	3600	rBV	209943	262278	5.58%	0.997%
56	11.756	3600	3605	3618	rVB3	324685	426948	9.08%	1.624%
57	11.853	3628	3635	3639	rBV3	70910	84369	1.79%	0.321%
58	11.882	3639	3644	3651	rVB2	197952	207241	4.41%	0.788%
59	12.021	3677	3687	3690	rBV	109969	135985	2.89%	0.517%
60	12.044	3690	3694	3702	rVB5	95624	104337	2.22%	0.397%
61	12.099	3702	3711	3717	rVB8	40672	50810	1.08%	0.193%
62	12.225	3745	3750	3757	rVB2	170037	176948	3.76%	0.673%
63	12.271	3757	3764	3768	rBV2	63622	78017	1.66%	0.297%
64	12.297	3768	3772	3778	rVB2	117054	119269	2.54%	0.454%
65	12.407	3801	3806	3812	rVB3	118124	127115	2.70%	0.483%
66	12.442	3812	3817	3822	rVB2	83115	77945	1.66%	0.296%
67	12.478	3822	3828	3832	rBV2	84618	81951	1.74%	0.312%
68	12.507	3832	3837	3841	rBV3	102076	108105	2.30%	0.411%
69	12.546	3846	3849	3856	rVB2	116273	111019	2.36%	0.422%
70	12.591	3856	3863	3873	rBV3	154443	232796	4.95%	0.885%
71	12.675	3875	3889	3894	rBV3	43732	84115	1.79%	0.320%
72	12.831	3931	3937	3942	rVV	291208	280563	5.97%	1.067%
73	12.863	3942	3947	3956	rVB10	46438	63730	1.35%	0.242%
74	12.921	3956	3965	3970	rBV3	90147	111720	2.38%	0.425%
75	12.954	3970	3975	3982	rVB	102067	107294	2.28%	0.408%
76	13.005	3982	3991	4002	rVB7	79771	131028	2.79%	0.498%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042361.D
Acq On : 17 Apr 2025 17:17
Operator : SY/MD
Sample : Q1668-01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 3

Min Area: 3 % of largest Peak

Start Thrs: 0.001

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

77	13.106	4016	4022	4025	rBV6	52114	58324	1.24%	0.222%
78	13.128	4025	4029	4036	rVB4	75462	80188	1.70%	0.305%
79	13.170	4036	4042	4046	rBV5	101663	110424	2.35%	0.420%
80	13.229	4054	4060	4063	rBV2	95746	100520	2.14%	0.382%
81	13.255	4063	4068	4075	rVB5	161150	184661	3.93%	0.702%
82	13.332	4086	4092	4097	rBV2	111585	136389	2.90%	0.519%
83	13.391	4103	4110	4115	rVB3	102903	115413	2.45%	0.439%
84	13.433	4115	4123	4135	rBV5	101125	165165	3.51%	0.628%
85	13.517	4144	4149	4154	rBV	94553	90876	1.93%	0.346%
86	13.594	4161	4173	4180	rVB5	92508	124181	2.64%	0.472%
87	13.659	4180	4193	4205	rVB10	79085	153714	3.27%	0.585%
88	13.727	4207	4214	4221	rBV	229369	228144	4.85%	0.868%
89	13.831	4239	4246	4251	rBV5	46190	53609	1.14%	0.204%
90	14.103	4321	4330	4337	rBV10	34931	60284	1.28%	0.229%
91	14.232	4362	4370	4374	rBV7	57538	81342	1.73%	0.309%
92	14.345	4398	4405	4411	rBV3	53446	62909	1.34%	0.239%
93	14.459	4430	4440	4445	rBV7	52285	69703	1.48%	0.265%
94	14.523	4454	4460	4472	rVB2	133771	133803	2.84%	0.509%
95	14.669	4497	4505	4515	rBV10	37469	68885	1.46%	0.262%
96	14.792	4533	4543	4552	rVB	91329	120022	2.55%	0.456%
97	14.889	4566	4573	4582	rVB6	37827	51340	1.09%	0.195%
98	15.245	4677	4683	4692	rVB6	55850	70933	1.51%	0.270%

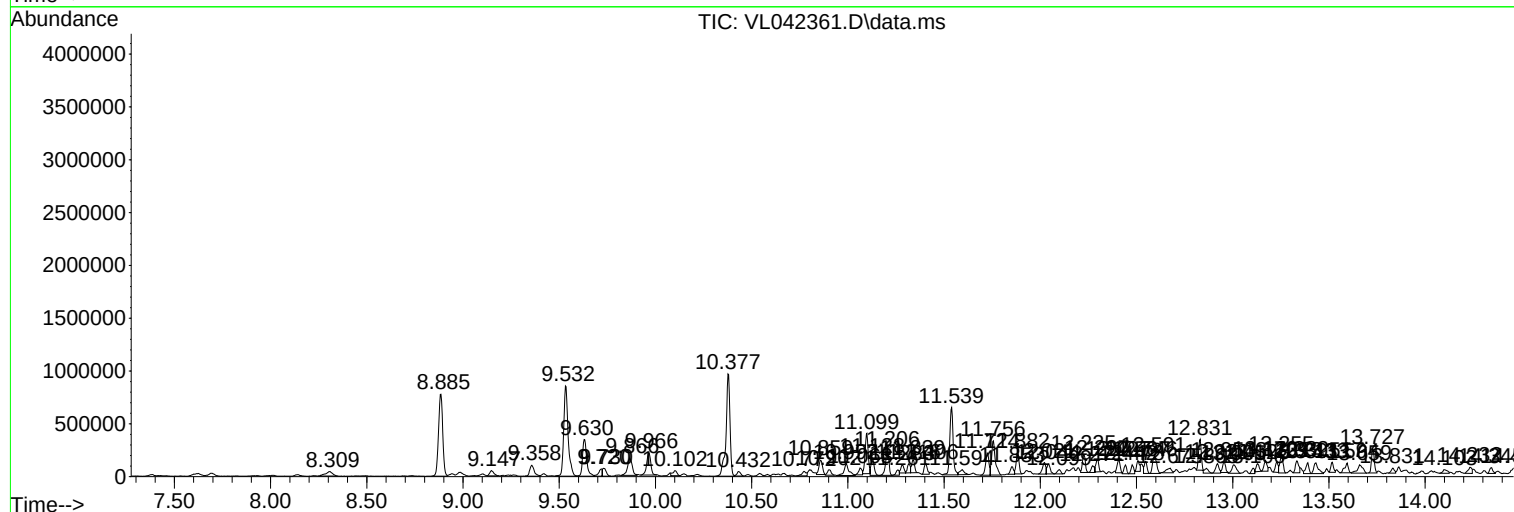
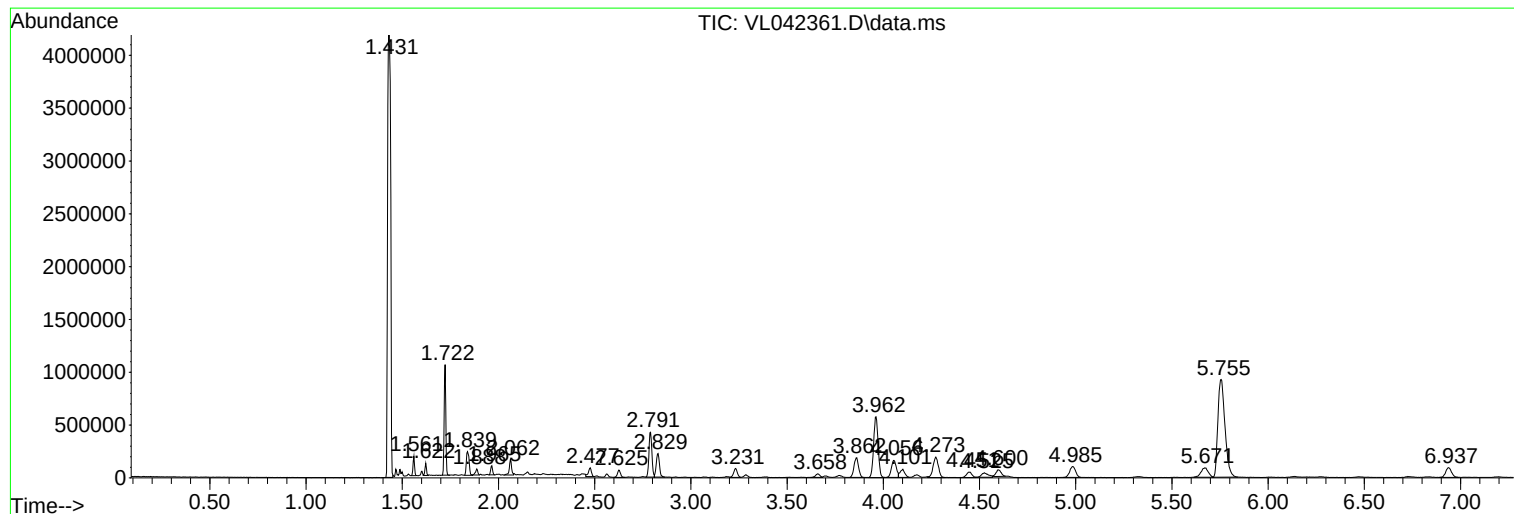
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042361.D
Acq On : 17 Apr 2025 17:17
Operator : SY/MD
Sample : Q1668-01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042361.D
Acq On : 17 Apr 2025 17:17
Operator : SY/MD
Sample : Q1668-01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

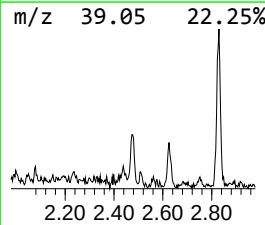
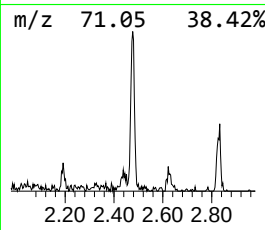
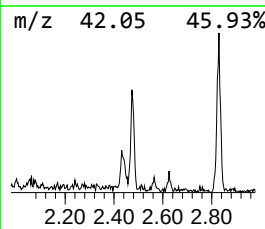
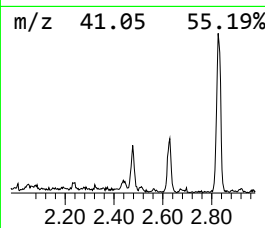
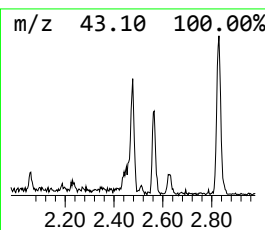
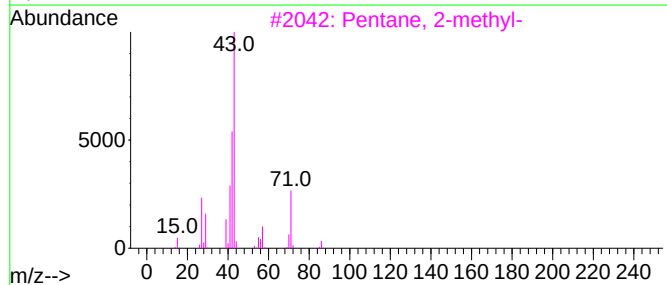
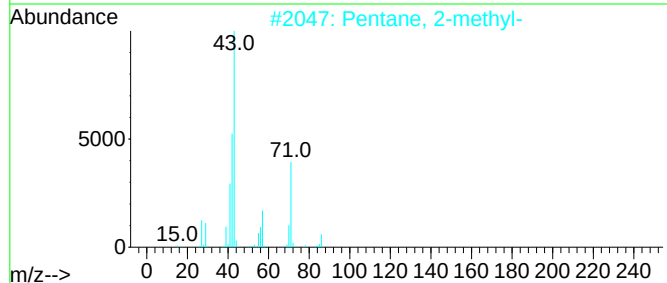
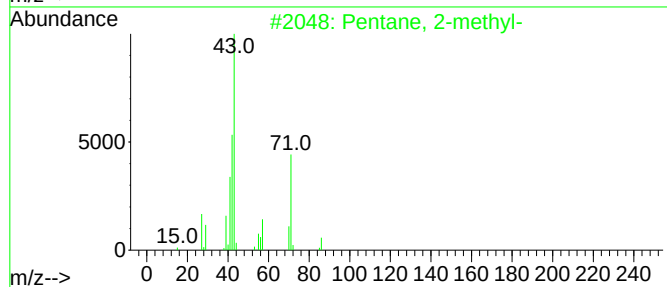
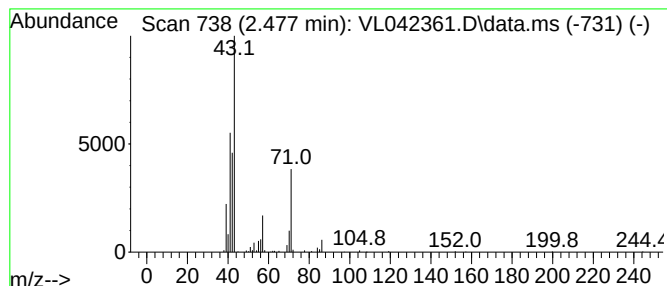
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 1 Pentane, 2-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.477	2.00 ppbv	90361	Bromochloromethane	2.787

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Pentane, 2-methyl-	86	C6H14	000107-83-5	90
2			Pentane, 2-methyl-	86	C6H14	000107-83-5	90
3			Pentane, 2-methyl-	86	C6H14	000107-83-5	78
4			Pentane, 2-methyl-	86	C6H14	000107-83-5	72
5			Pentane, 2-bromo-	150	C5H11Br	000107-81-3	64



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042361.D
Acq On : 17 Apr 2025 17:17
Operator : SY/MD
Sample : Q1668-01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

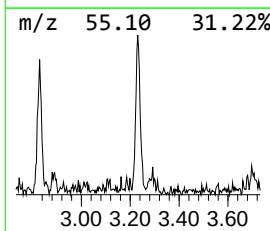
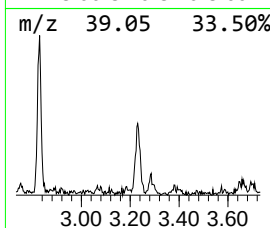
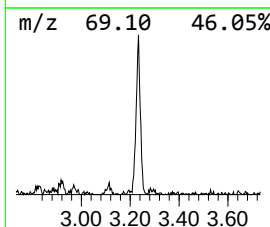
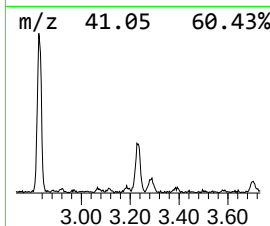
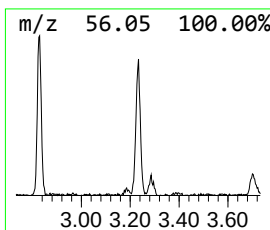
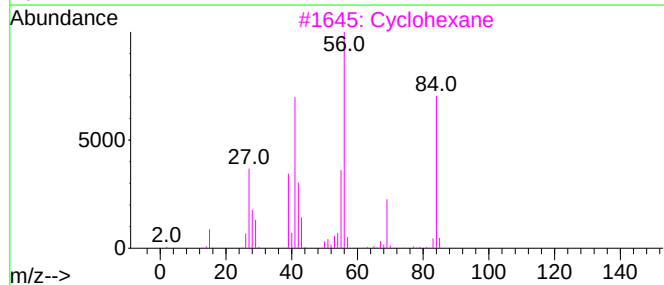
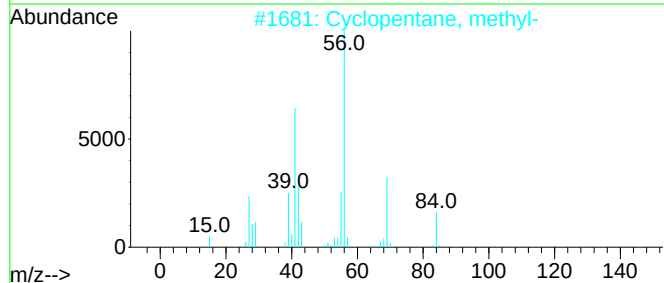
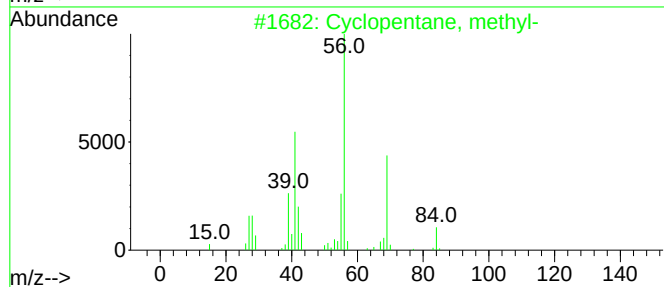
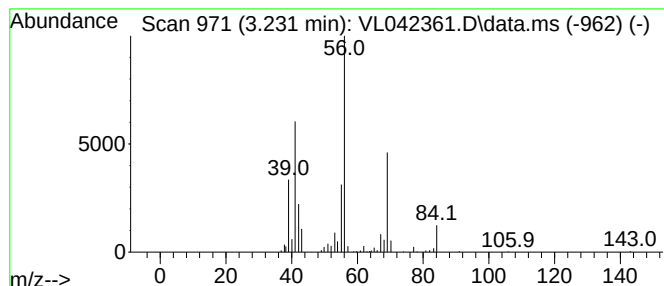
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 2 Cyclopentane, methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.231	2.46 ppbv	111228	Bromochloromethane	2.787

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Cyclopentane, methyl-	84	C6H12	000096-37-7	91
2			Cyclopentane, methyl-	84	C6H12	000096-37-7	72
3			Cyclohexane	84	C6H12	000110-82-7	72
4			1H-Tetrazole, 5-methyl-	84	C2H4N4	004076-36-2	59
5			Cyclohexane	84	C6H12	000110-82-7	56



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042361.D
Acq On : 17 Apr 2025 17:17
Operator : SY/MD
Sample : Q1668-01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

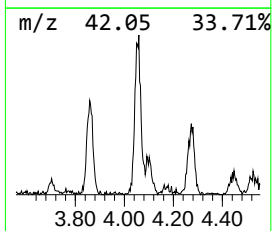
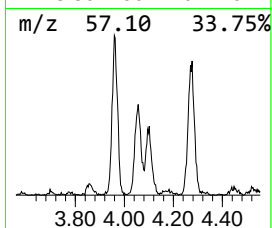
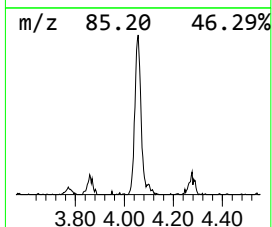
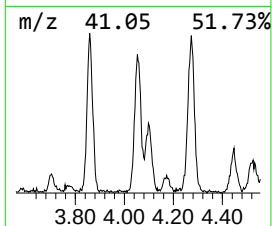
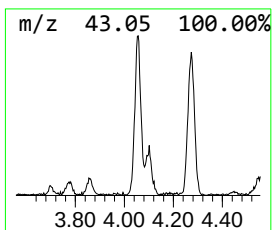
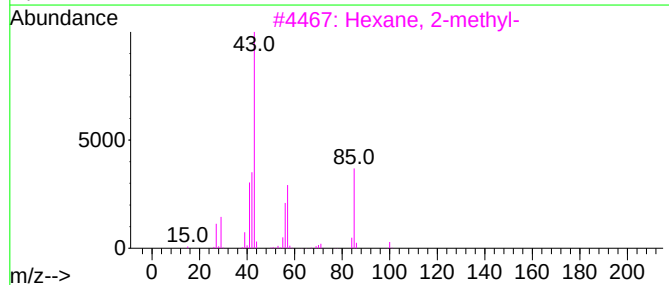
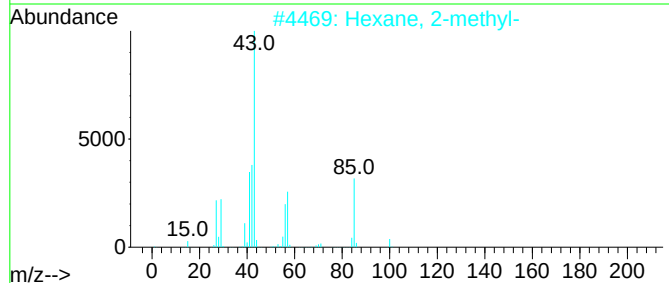
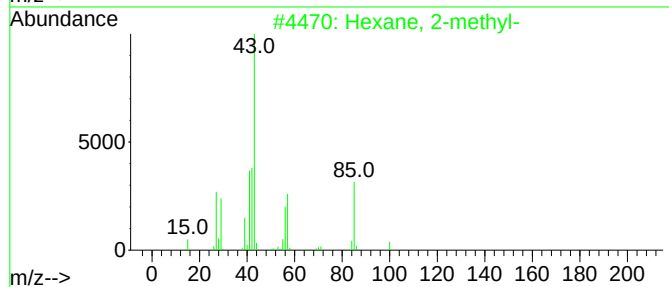
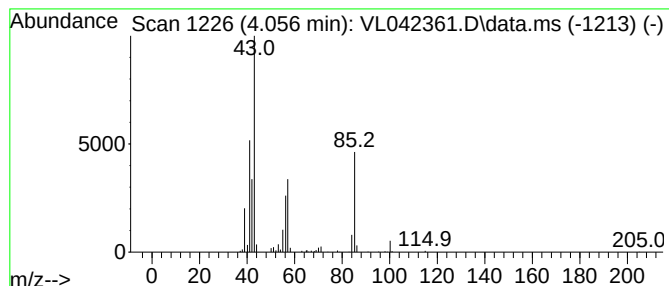
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 3 Hexane, 2-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.056	3.11 ppbv	288856	1,4-Difluorobenzene	3.959

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Hexane, 2-methyl-	100	C7H16	000591-76-4	91
2			Hexane, 2-methyl-	100	C7H16	000591-76-4	91
3			Hexane, 2-methyl-	100	C7H16	000591-76-4	91
4			Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	72
5			Octane	114	C8H18	000111-65-9	59



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042361.D
Acq On : 17 Apr 2025 17:17
Operator : SY/MD
Sample : Q1668-01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

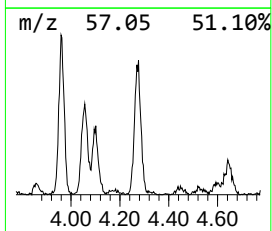
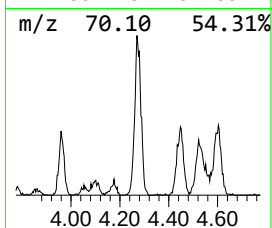
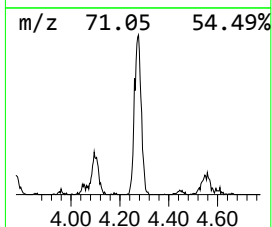
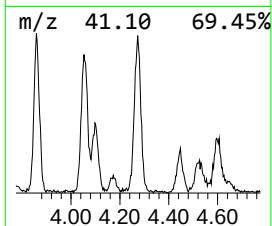
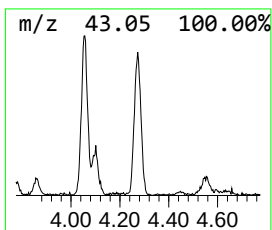
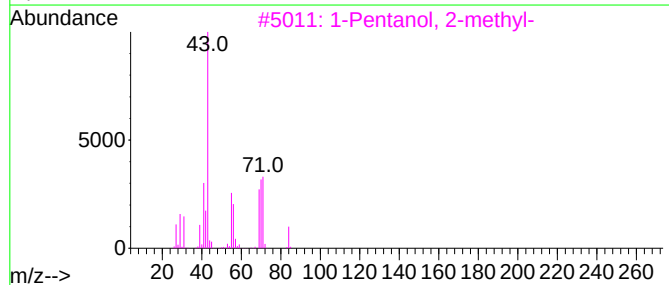
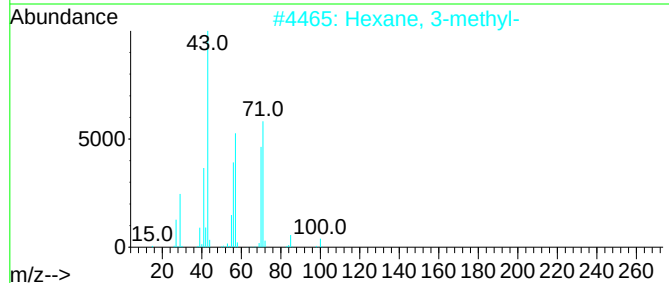
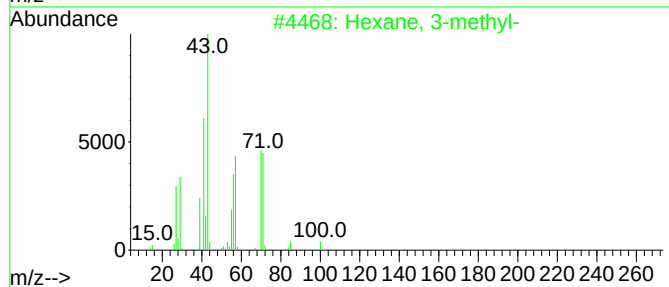
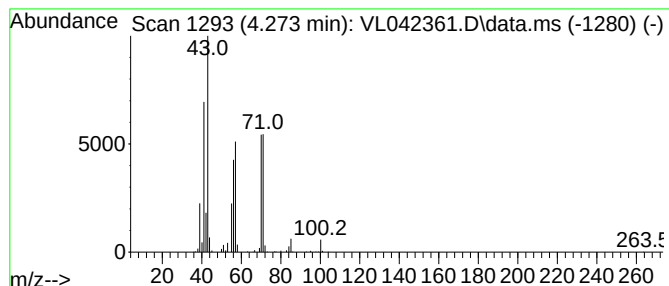
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Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 4 Hexane, 3-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.273	3.93 ppbv	365708	1,4-Difluorobenzene	3.959

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Hexane, 3-methyl-	100	C7H16	000589-34-4	94
2			Hexane, 3-methyl-	100	C7H16	000589-34-4	91
3			1-Pentanol, 2-methyl-	102	C6H14O	000105-30-6	78
4			Hexane, 3-methyl-	100	C7H16	000589-34-4	74
5			Heptane	100	C7H16	000142-82-5	72



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042361.D
Acq On : 17 Apr 2025 17:17
Operator : SY/MD
Sample : Q1668-01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

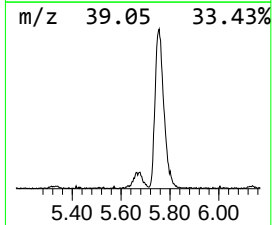
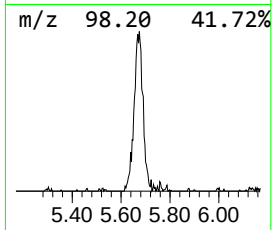
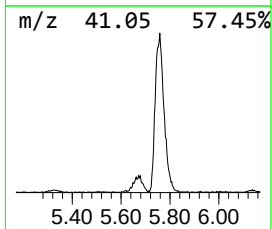
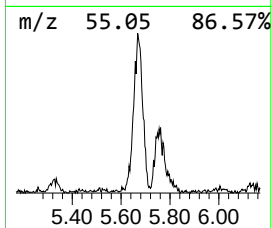
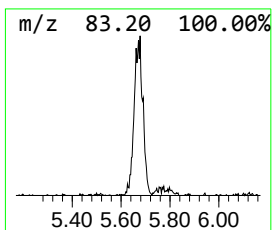
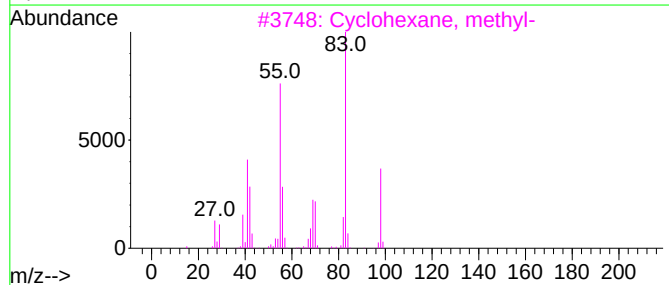
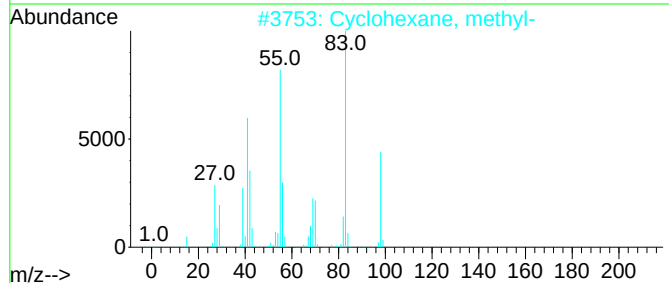
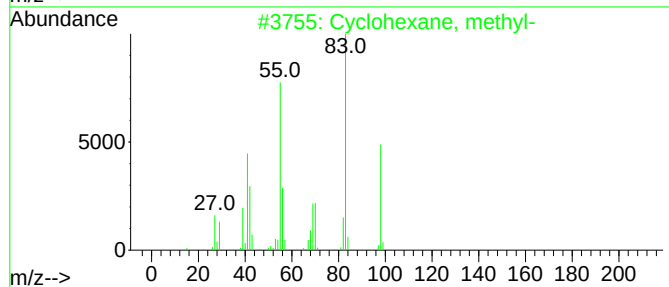
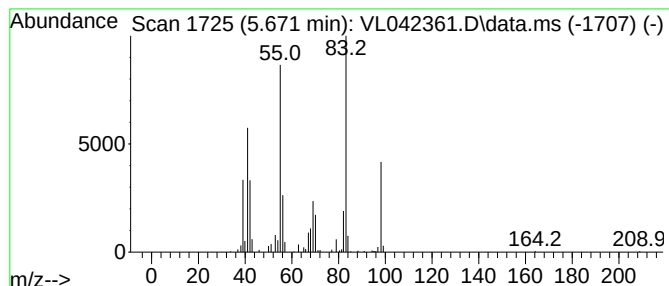
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Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 5 Cyclohexane, methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.671	2.54 ppbv	236367	1,4-Difluorobenzene	3.959

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Cyclohexane, methyl-	98	C7H14	000108-87-2	95
2			Cyclohexane, methyl-	98	C7H14	000108-87-2	94
3			Cyclohexane, methyl-	98	C7H14	000108-87-2	94
4			Cyclohexane, methyl-	98	C7H14	000108-87-2	91
5			Cyclohexane, methyl-	98	C7H14	000108-87-2	91



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042361.D
Acq On : 17 Apr 2025 17:17
Operator : SY/MD
Sample : Q1668-01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

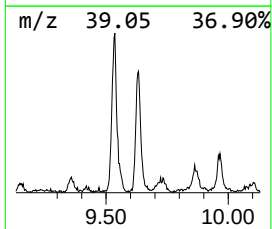
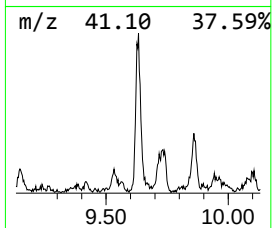
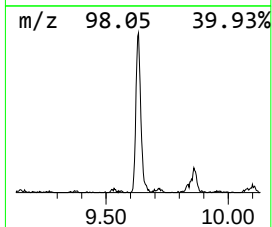
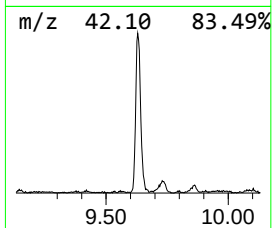
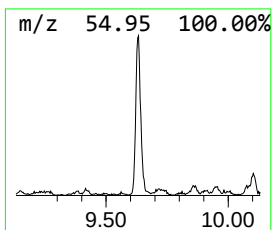
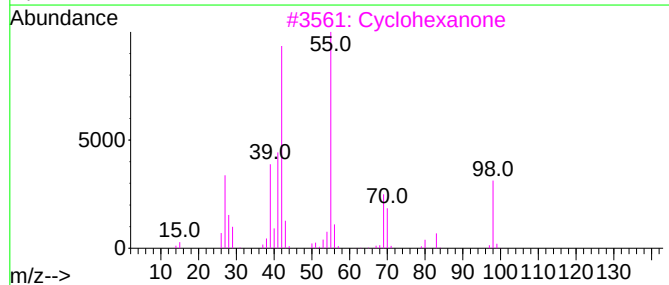
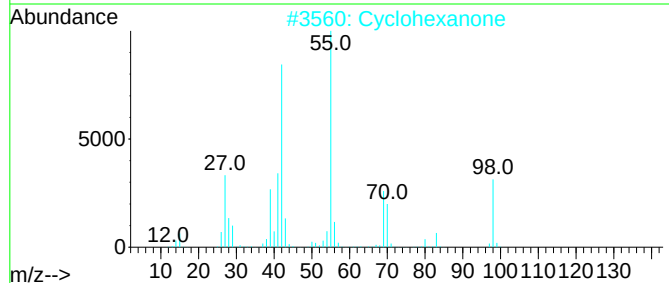
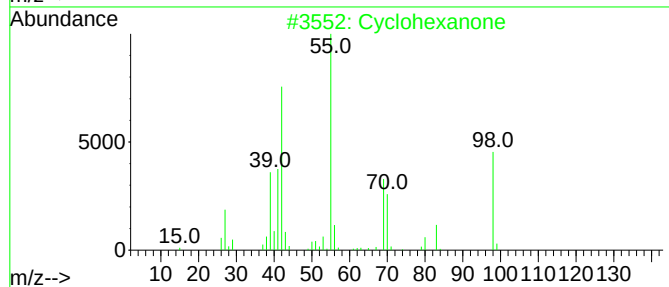
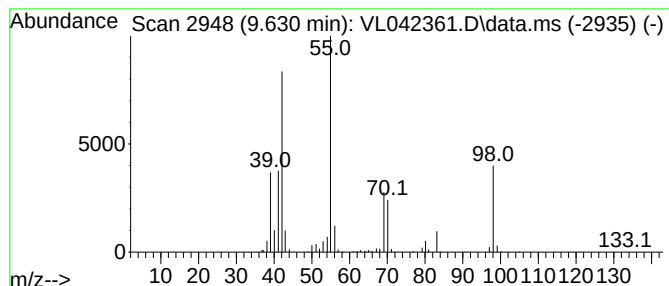
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Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 6 Cyclohexanone Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.630	4.42 ppbv	522696	Chlorobenzene-d5	8.885

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Cyclohexanone	98	C6H10O	000108-94-1	97
2			Cyclohexanone	98	C6H10O	000108-94-1	94
3			Cyclohexanone	98	C6H10O	000108-94-1	91
4			Cyclohexanone	98	C6H10O	000108-94-1	91
5			Cyclohexanone	98	C6H10O	000108-94-1	91



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042361.D
Acq On : 17 Apr 2025 17:17
Operator : SY/MD
Sample : Q1668-01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

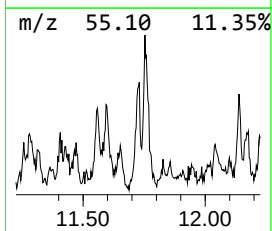
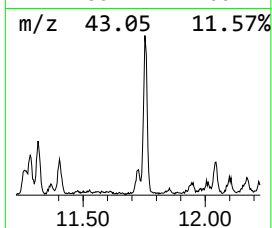
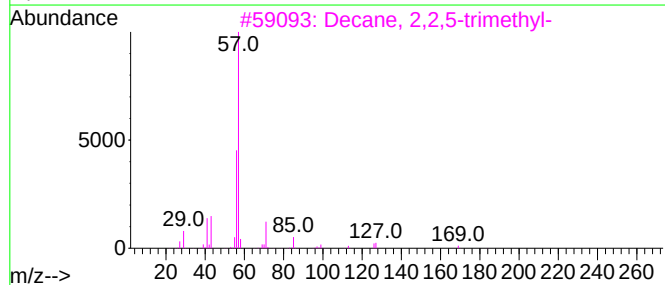
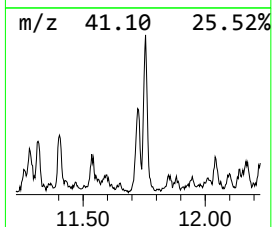
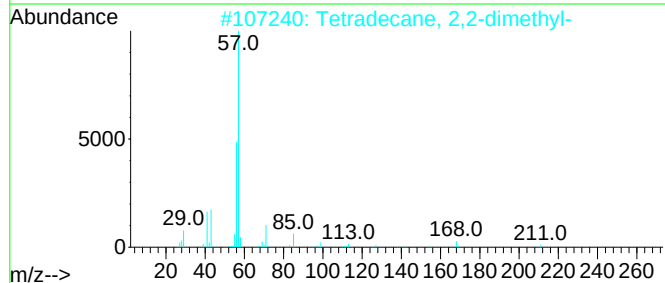
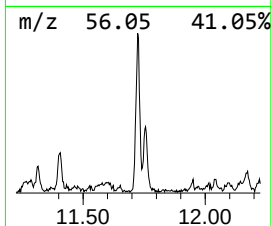
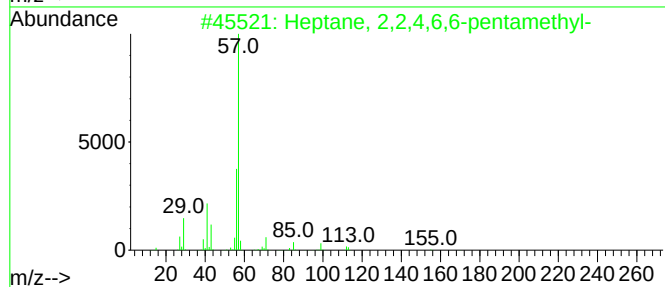
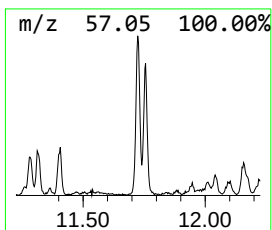
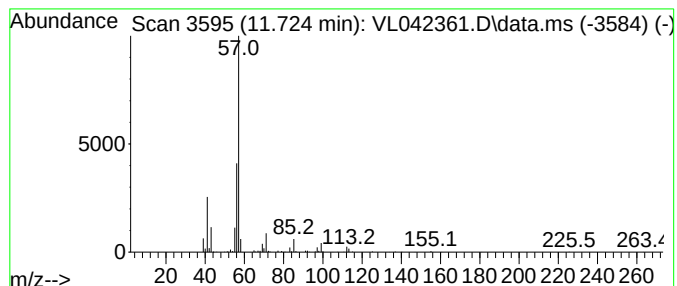
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Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 7 Heptane, 2,2,4,6,6-pentamet... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.724	2.22 ppbv	262278	Chlorobenzene-d5	8.885

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Heptane, 2,2,4,6,6-pentamethyl-	170	C12H26	013475-82-6	90
2			Tetradecane, 2,2-dimethyl-	226	C16H34	059222-86-5	83
3			Decane, 2,2,5-trimethyl-	184	C13H28	062237-96-1	78
4			Dodecane, 2,2,11,11-tetramethyl-	226	C16H34	127204-12-0	78
5			Heptane, 2,2,4,6,6-pentamethyl-	170	C12H26	013475-82-6	78



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042361.D
Acq On : 17 Apr 2025 17:17
Operator : SY/MD
Sample : Q1668-01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

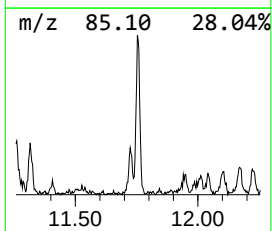
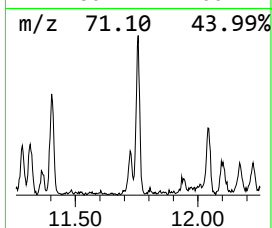
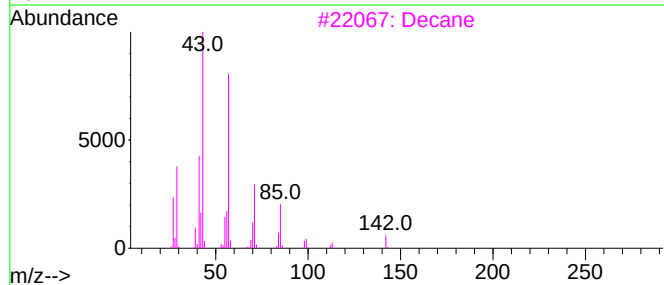
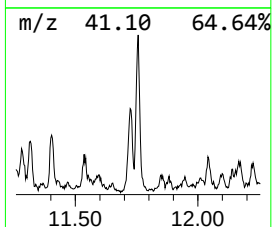
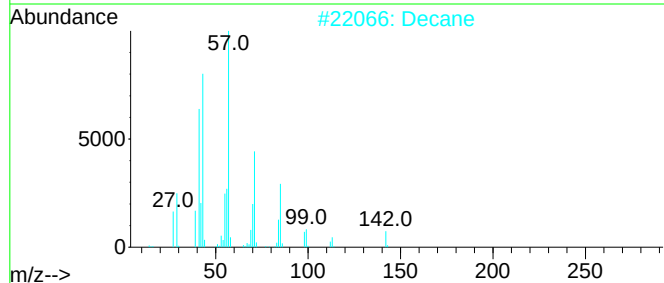
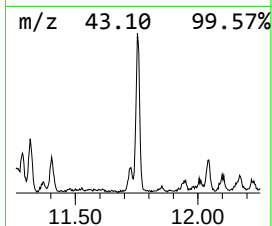
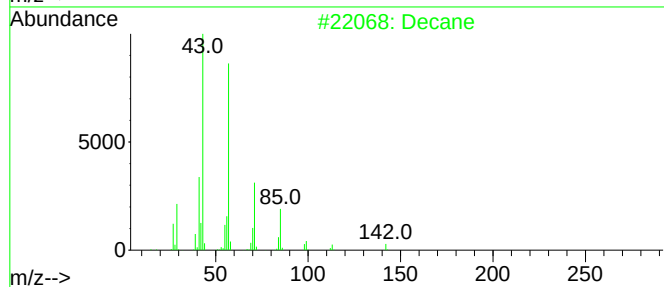
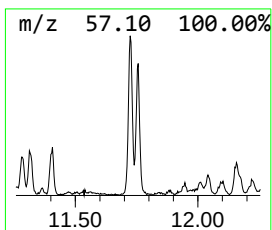
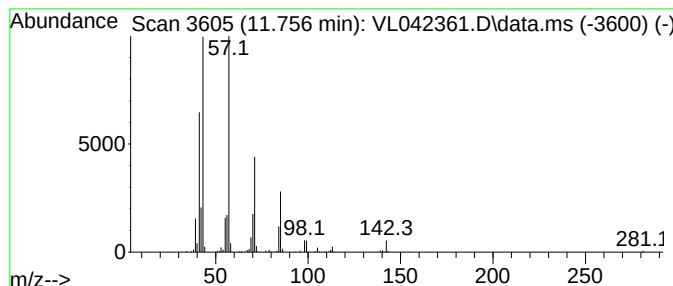
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Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 8 Decane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.756	3.61 ppbv	426948	Chlorobenzene-d5	8.885

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decane			142	C10H22	000124-18-5	91
2	Decane			142	C10H22	000124-18-5	91
3	Decane			142	C10H22	000124-18-5	68
4	Dodecane			170	C12H26	000112-40-3	64
5	Dodecane			170	C12H26	000112-40-3	64



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042361.D
Acq On : 17 Apr 2025 17:17
Operator : SY/MD
Sample : Q1668-01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

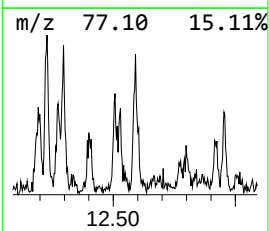
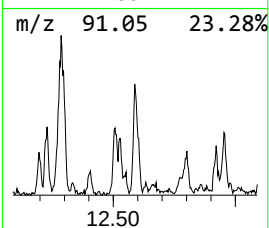
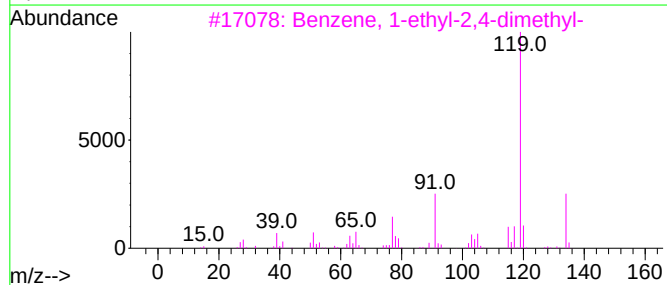
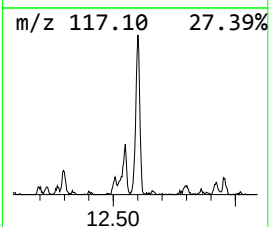
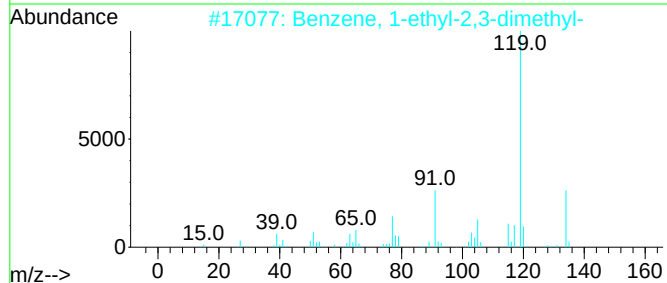
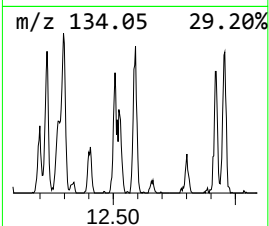
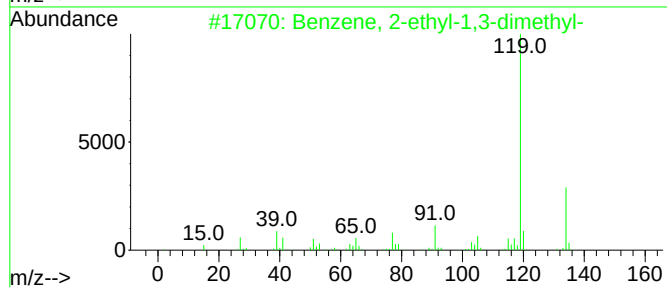
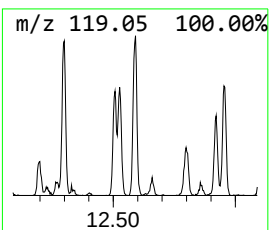
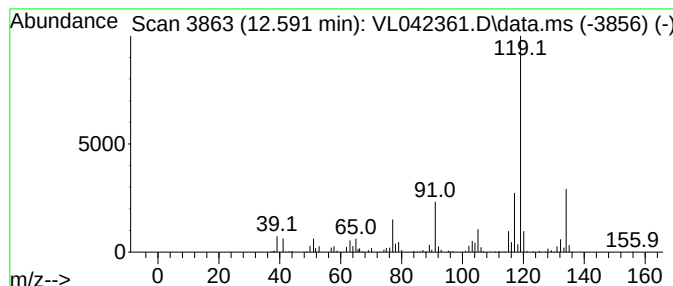
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 9 Benzene, 2-ethyl-1,3-dimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.591	1.97 ppbv	232796	Chlorobenzene-d5	8.885

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	94
2			Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	93
3			Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	93
4			Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	91
5			Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	87



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042361.D
Acq On : 17 Apr 2025 17:17
Operator : SY/MD
Sample : Q1668-01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

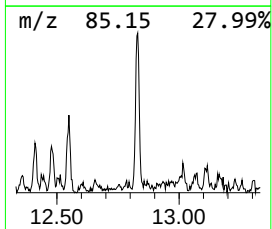
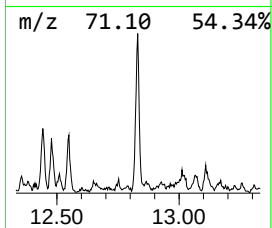
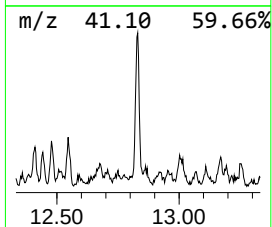
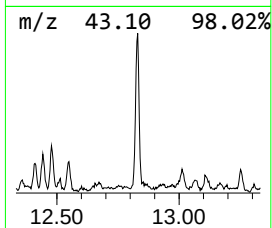
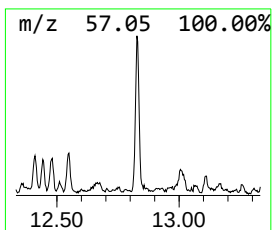
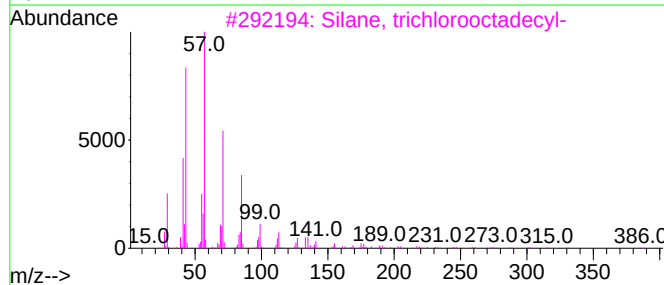
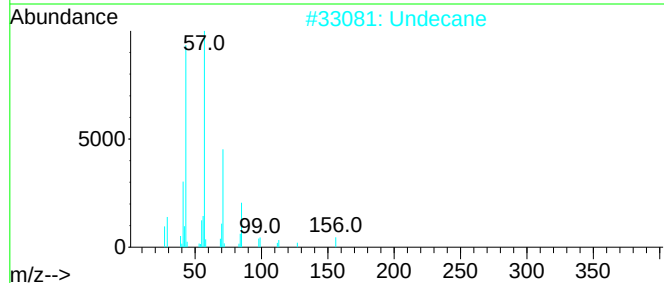
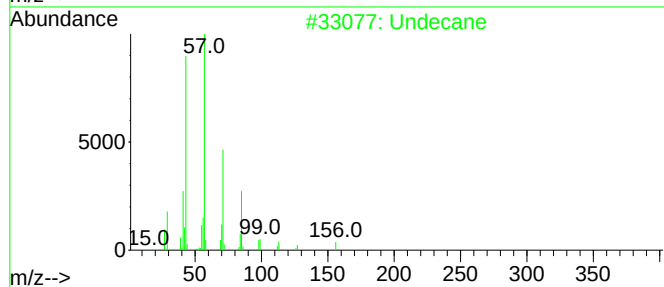
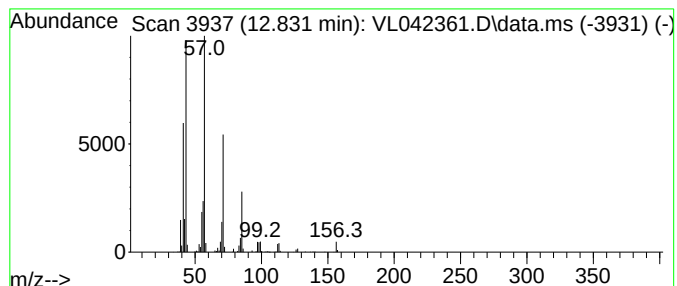
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 10 Undecane Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD		R.T.	
12.831	2.37 ppbv	280563	Chlorobenzene-d5		8.885	
Hit# of 5	Tentative ID		MW	MolForm	CAS#	Qual
1	Undecane		156	C11H24	001120-21-4	87
2	Undecane		156	C11H24	001120-21-4	87
3	Silane, trichlorooctadecyl-		386	C18H37Cl3Si	000112-04-9	78
4	Undecane		156	C11H24	001120-21-4	76
5	Tridecane		184	C13H28	000629-50-5	72



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042361.D
Acq On : 17 Apr 2025 17:17
Operator : SY/MD
Sample : Q1668-01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST0.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
Pentane, 2-methyl-	2.477	2.0	ppbv	90361	1	2.787	451417	10.0
Cyclopentane, m...	3.231	2.5	ppbv	111228	1	2.787	451417	10.0
Hexane, 2-methyl-	4.056	3.1	ppbv	288856	2	3.959	929855	10.0
Hexane, 3-methyl-	4.273	3.9	ppbv	365708	2	3.959	929855	10.0
Cyclohexane, me...	5.671	2.5	ppbv	236367	2	3.959	929855	10.0
Cyclohexanone	9.630	4.4	ppbv	522696	3	8.885	1181830	10.0
Heptane, 2,2,4,...	11.724	2.2	ppbv	262278	3	8.885	1181830	10.0
Decane	11.756	3.6	ppbv	426948	3	8.885	1181830	10.0
Benzene, 2-ethy...	12.591	2.0	ppbv	232796	3	8.885	1181830	10.0
Undecane	12.831	2.4	ppbv	280563	3	8.885	1181830	10.0

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/26/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/27/25
Client Sample ID:	IA-B1-4-3252025DL	SDG No.:	Q1668
Lab Sample ID:	Q1668-01DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042374.D	4		04/18/25 00:28	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.84	4.15	UD	4.15	9.89	ug/m3
74-87-3	Chloromethane	0.79	1.63	JD	0.81	4.13	ug/m3
75-01-4	Vinyl Chloride	0.060	0.15	UD	0.15	0.31	ug/m3
74-83-9	Bromomethane	0.56	2.17	UD	2.17	7.77	ug/m3
75-00-3	Chloroethane	0.68	1.79	UD	1.79	5.28	ug/m3
109-99-9	Tetrahydrofuran	0.52	1.53	UD	1.53	5.90	ug/m3
75-69-4	Trichlorofluoromethane	0.64	3.60	UD	3.60	11.2	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.64	4.91	UD	4.91	15.3	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.35	2.45	UD	2.45	14.0	ug/m3
75-65-0	tert-Butyl alcohol	0.76	2.30	UD	2.30	6.06	ug/m3
142-82-5	Heptane	2.20	9.02	D	1.80	8.20	ug/m3
75-35-4	1,1-Dichloroethene	0.56	2.22	UD	2.22	7.93	ug/m3
67-64-1	Acetone	6.60	15.7	D	2.28	4.75	ug/m3
75-15-0	Carbon Disulfide	0.64	1.99	UD	1.99	6.23	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.48	1.73	UD	1.73	7.21	ug/m3
75-09-2	Methylene Chloride	4.90	17.0	D	2.64	6.95	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.76	3.01	UD	3.01	7.93	ug/m3
75-34-3	1,1-Dichloroethane	0.52	2.10	UD	2.10	8.09	ug/m3
110-82-7	Cyclohexane	3.90	13.4	D	3.03	6.88	ug/m3
78-93-3	2-Butanone	0.90	2.65	JD	1.42	5.90	ug/m3
56-23-5	Carbon Tetrachloride	0.040	0.25	UD	0.25	0.75	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.36	1.43	UD	1.43	7.93	ug/m3
67-66-3	Chloroform	0.33	1.61	UD	1.61	9.77	ug/m3
71-55-6	1,1,1-Trichloroethane	0.040	0.22	UD	0.22	0.65	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.40	1.87	UD	1.87	9.34	ug/m3
71-43-2	Benzene	0.69	2.20	JD	1.12	6.39	ug/m3
107-06-2	1,2-Dichloroethane	0.36	1.46	UD	1.46	8.09	ug/m3
79-01-6	Trichloroethene	0.070	0.38	UD	0.38	0.64	ug/m3
78-87-5	1,2-Dichloropropane	0.44	2.03	UD	2.03	9.24	ug/m3
75-27-4	Bromodichloromethane	0.31	2.08	UD	2.08	13.4	ug/m3
108-10-1	4-Methyl-2-Pentanone	20.7	84.8	D	1.52	8.20	ug/m3
108-88-3	Toluene	1.80	6.78	JD	1.66	7.54	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.24	1.09	UD	1.09	9.08	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.26	1.18	UD	1.18	9.08	ug/m3
79-00-5	1,1,2-Trichloroethane	0.28	1.53	UD	1.53	10.9	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/26/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/27/25
Client Sample ID:	IA-B1-4-3252025DL	SDG No.:	Q1668
Lab Sample ID:	Q1668-01DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042374.D	4		04/18/25 00:28	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.26	2.22	UD	2.22	17.0	ug/m3
106-93-4	1,2-Dibromoethane	0.29	2.23	UD	2.23	3.07	ug/m3
127-18-4	Tetrachloroethene	0.060	0.41	UD	0.41	0.81	ug/m3
108-90-7	Chlorobenzene	0.30	1.38	UD	1.38	9.21	ug/m3
100-41-4	Ethyl Benzene	1.00	4.34	JD	2.08	8.69	ug/m3
179601-23-1	m/p-Xylene	10.1	43.9	D	3.65	17.4	ug/m3
95-47-6	o-Xylene	2.10	9.12	D	2.08	8.69	ug/m3
100-42-5	Styrene	1.70	7.24	JD	1.87	8.52	ug/m3
75-25-2	Bromoform	0.23	2.38	UD	2.38	20.7	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.040	0.27	UD	0.27	0.82	ug/m3
95-49-8	2-Chlorotoluene	0.44	2.28	UD	2.28	10.4	ug/m3
108-67-8	1,3,5-Trimethylbenzene	1.30	6.39	JD	2.16	9.83	ug/m3
95-63-6	1,2,4-Trimethylbenzene	4.20	20.6	D	1.52	9.83	ug/m3
541-73-1	1,3-Dichlorobenzene	0.32	1.92	UD	1.92	12.0	ug/m3
106-46-7	1,4-Dichlorobenzene	0.21	1.26	UD	1.26	12.0	ug/m3
95-50-1	1,2-Dichlorobenzene	0.30	1.80	UD	1.80	12.0	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.34	2.52	UD	2.52	14.8	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.34	3.63	UD	3.63	21.3	ug/m3
106-99-0	1,3-Butadiene	0.52	1.15	UD	1.15	4.42	ug/m3
91-20-3	Naphthalene	0.61	3.20	D	1.57	2.10	ug/m3
622-96-8	4-Ethyltoluene	1.20	5.90	JD	2.36	9.83	ug/m3
110-54-3	Hexane	4.20	14.8	D	1.55	7.05	ug/m3
107-05-1	Allyl Chloride	0.60	1.88	UD	1.88	6.26	ug/m3
123-91-1	1,4-Dioxane	0.84	3.03	UD	3.03	7.21	ug/m3
80-62-6	Methyl Methacrylate	0.34	1.39	UD	1.39	8.19	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.0			70 (65) - 130 (135)	100%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	104000		2.787			
540-36-3	1,4-Difluorobenzene	294000		3.959			
3114-55-4	Chlorobenzene-d5	258000		8.882			

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/26/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/27/25
Client Sample ID:	IA-B1-4-3252025DL	SDG No.:	Q1668
Lab Sample ID:	Q1668-01DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042374.D	4		04/18/25 00:28	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range
 D = Dilution

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042374.D
 Acq On : 18 Apr 2025 00:28
 Operator : SY/MD
 Sample : Q1668-01DL 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B1-4-3252025DL

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 02:47:53 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Fri Apr 18 02:14:00 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	104470	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	294101	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	258444	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	213140	10.036	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.400%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	3131	0.170	ppbv	89
4) Chloromethane	1.534	50	1444	0.198	ppbv	96
9) Propene	1.486	41	1595	0.199	ppbv	92
10) Heptane	4.978	43	12111m	0.539	ppbv	
13) Ethanol	1.722	45	89338	70.220	ppbv	76
15) Acetone	1.835	43	28193	1.649	ppbv	98
19) Isopropyl Alcohol	1.887	45	6632	0.698	ppbv #	1
20) Methylene Chloride	2.062	84	8259	1.233	ppbv	86
26) Hexane	2.823	57	17764	1.041	ppbv #	33
30) Cyclohexane	3.858	84	13322	0.966	ppbv	97
34) 2-Butanone	2.564	43	5208m	0.224	ppbv	
36) Benzene	3.654	78	5447m	0.172	ppbv	
50) 4-Methyl-2-Pentanone	5.755	43	200233	5.180	ppbv	98
53) Toluene	6.933	91	17117m	0.450	ppbv	
58) Ethyl Benzene	9.354	91	13008	0.254	ppbv	93
59) m/p-Xylene	9.532	91	104338	2.529	ppbv	99
60) o-Xylene	9.963	91	22264	0.536	ppbv	99
61) Styrene	9.872	104	8460	0.427	ppbv	97
64) n-propylbenzene	10.992	120	2068	0.135	ppbv	91
70) n-Butylbenzene	12.280	91	7143m	0.101	ppbv	
72) 4-Ethyltoluene	11.125	105	14677	0.289	ppbv #	56
73) 1,3,5-Trimethylbenzene	11.202	105	14990	0.334	ppbv	89
74) 1,2,4-Trimethylbenzene	11.536	105	55625	1.062	ppbv #	62
79) Naphthalene	13.516	128	9572	0.153	ppbv #	92

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

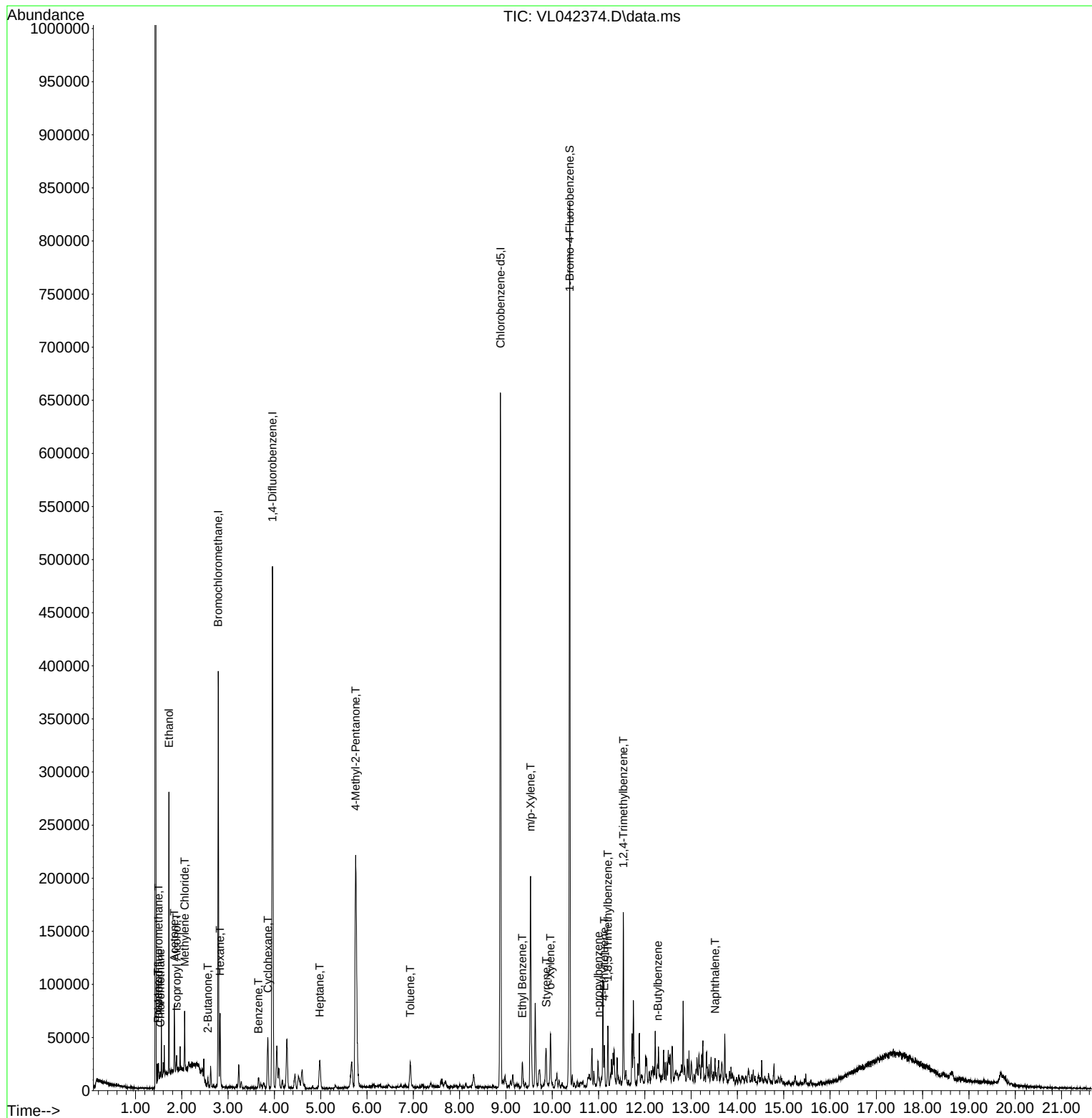
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Data File : VL042374.D
Acq On : 18 Apr 2025 00:28
Operator : SY/MD
Sample : Q1668-01DL 4X
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

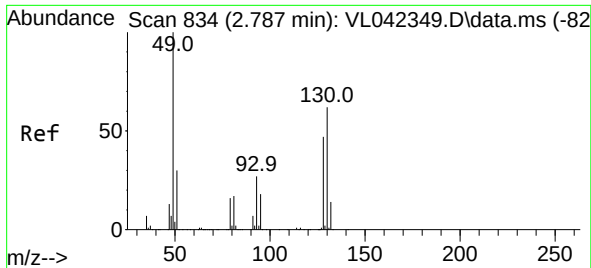
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DL

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

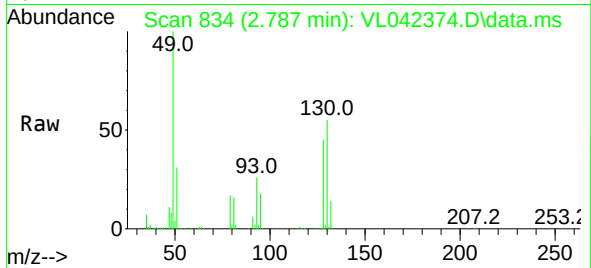
Quant Time: Apr 18 02:47:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 834
Delta R.T. -0.000 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

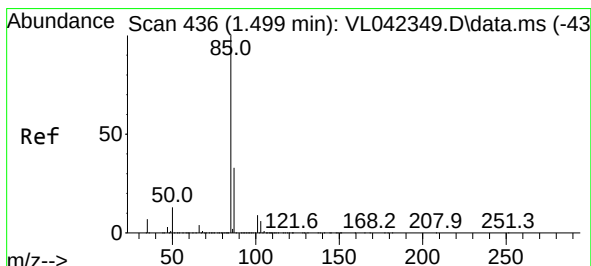
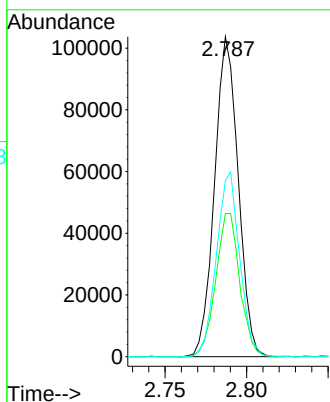
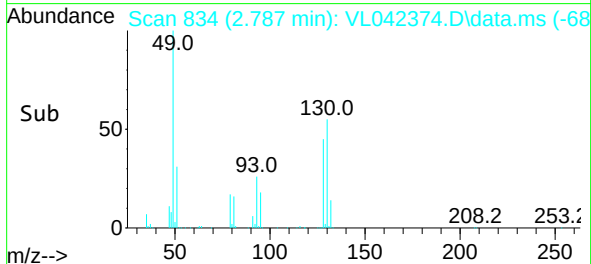
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DL



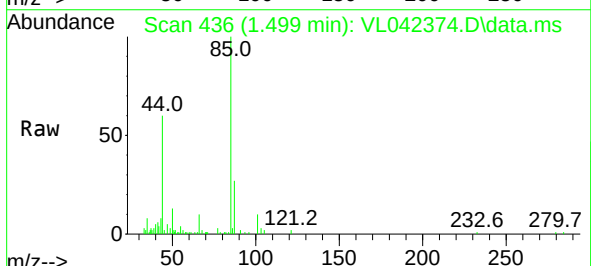
Tgt Ion: 49 Resp: 104470
Ion Ratio Lower Upper
49 100
128 45.6 22.8 68.4
130 56.8 29.3 88.0

Manual Integrations
APPROVED

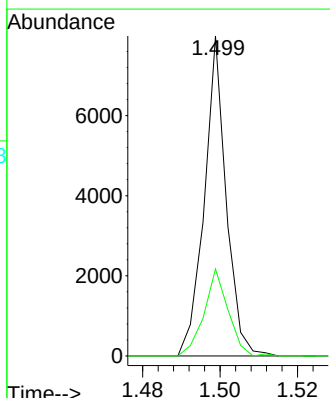
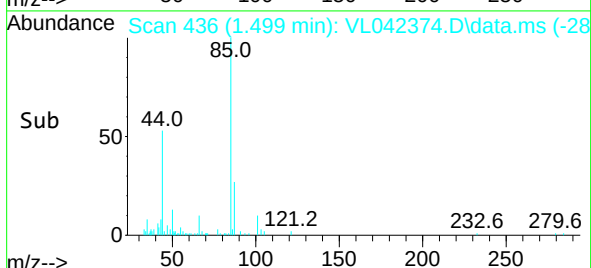
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

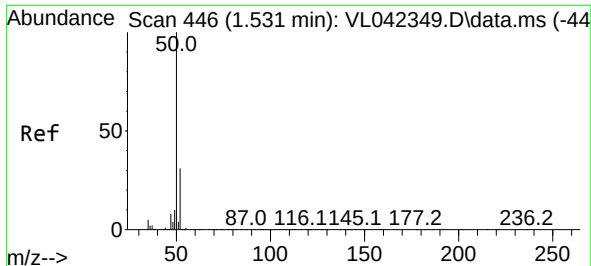


#2
Dichlorodifluoromethane
Concen: 0.170 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28



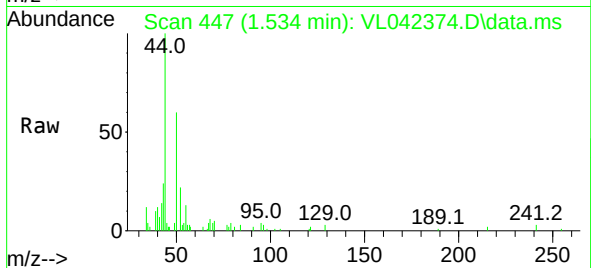
Tgt Ion: 85 Resp: 3131
Ion Ratio Lower Upper
85 100
87 27.2 26.6 39.8





#4
Chloromethane
Concen: 0.198 ppbv
RT: 1.534 min Scan# 446
Delta R.T. 0.003 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

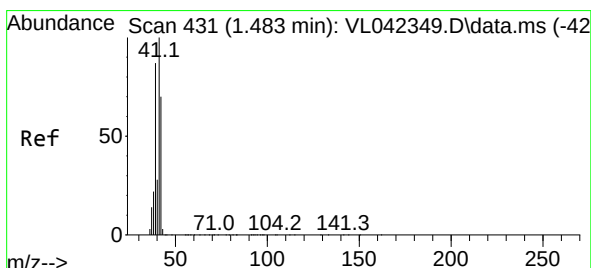
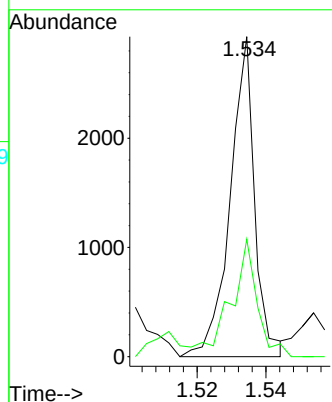
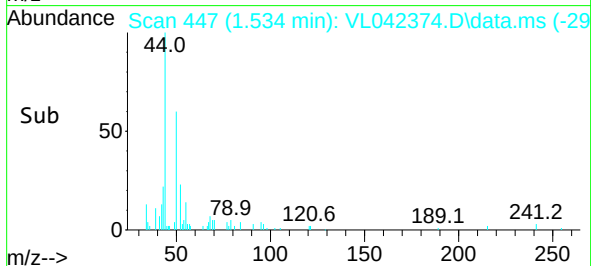
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DL



Tgt Ion: 50 Resp: 144
Ion Ratio Lower Upper
50 100
52 33.3 24.7 37.1

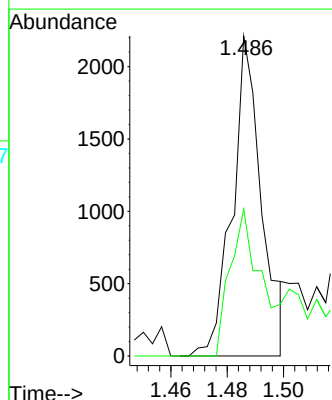
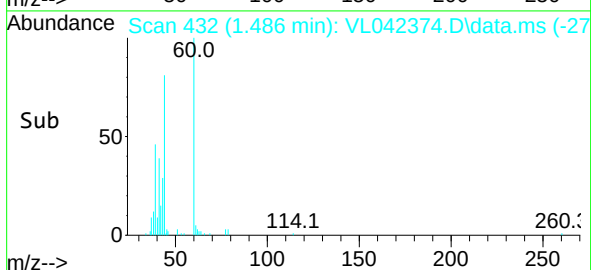
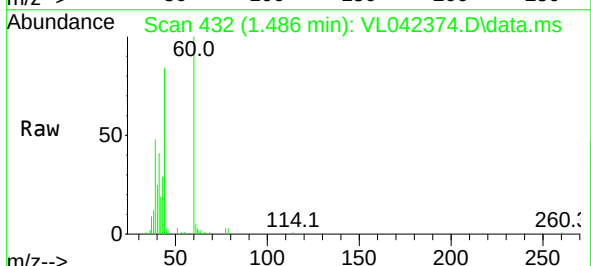
Manual Integrations
APPROVED

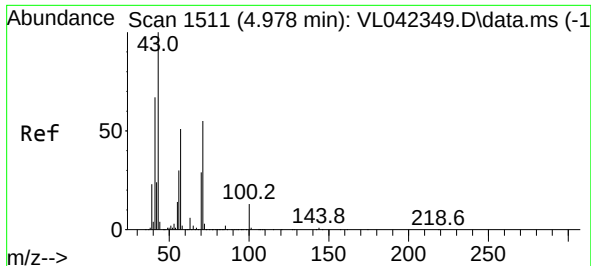
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#9
Propene
Concen: 0.199 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.003 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

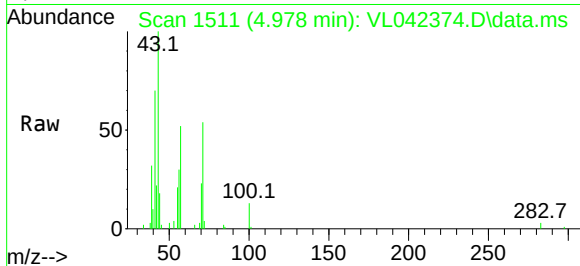
Tgt Ion: 41 Resp: 1595
Ion Ratio Lower Upper
41 100
42 63.9 56.2 84.4





#10
Heptane
Concen: 0.539 ppbv m
RT: 4.978 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

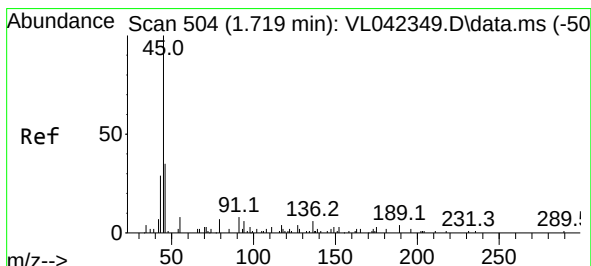
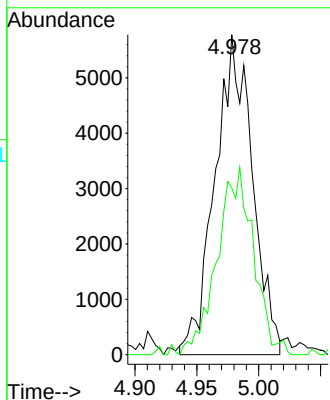
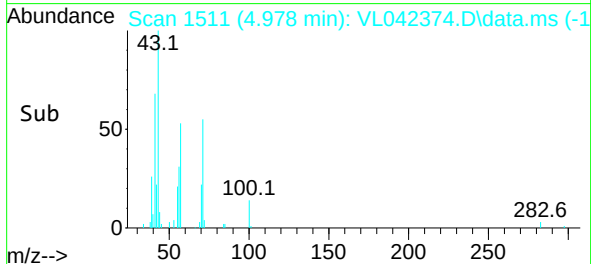
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DL



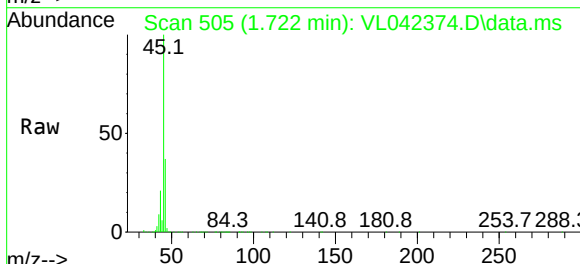
Tgt Ion: 43 Resp: 1211
Ion Ratio Lower Upper
43 100
57 0.0 39.9 59.9

Manual Integrations
APPROVED

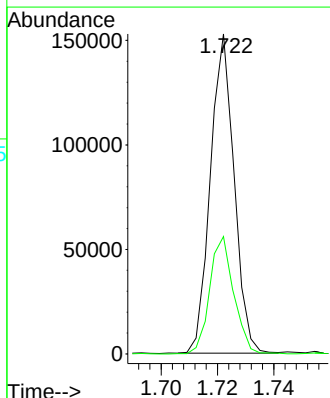
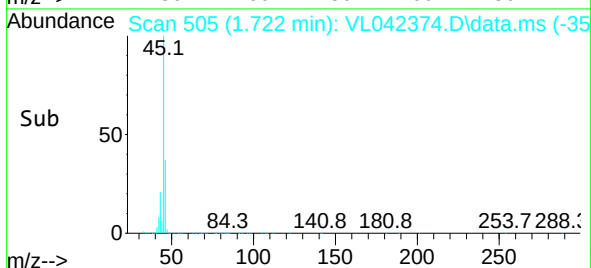
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

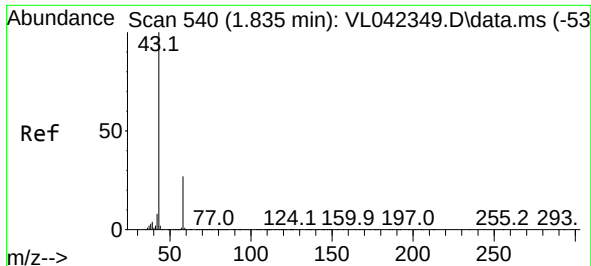


#13
Ethanol
Concen: 70.220 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28



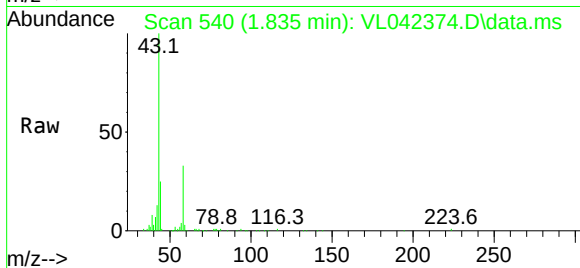
Tgt Ion: 45 Resp: 89338
Ion Ratio Lower Upper
45 100
46 37.5 21.9 87.7





#15
Acetone
Concen: 1.649 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

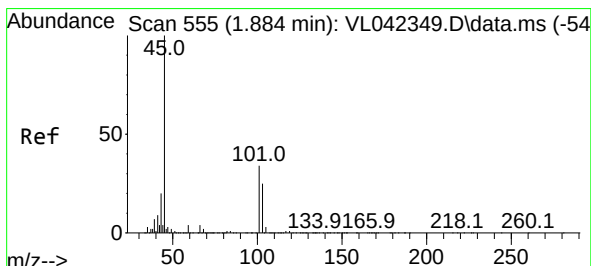
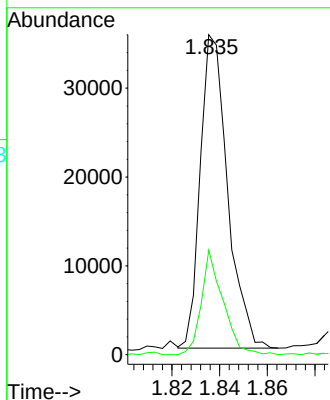
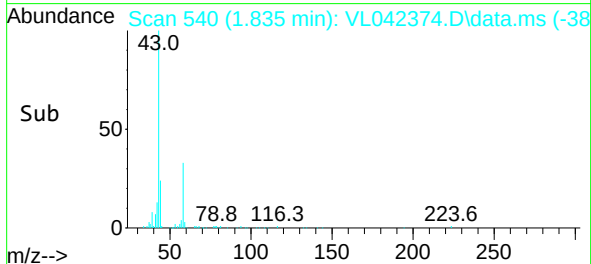
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DL



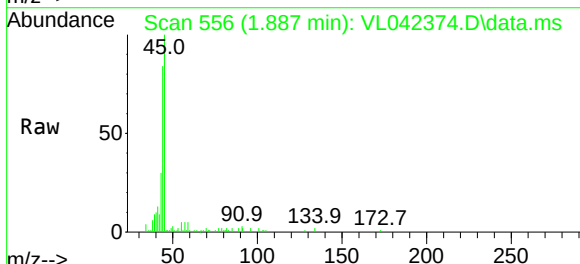
Tgt Ion: 43 Resp: 2819
Ion Ratio Lower Upper
43 100
58 27.1 22.4 33.6

Manual Integrations
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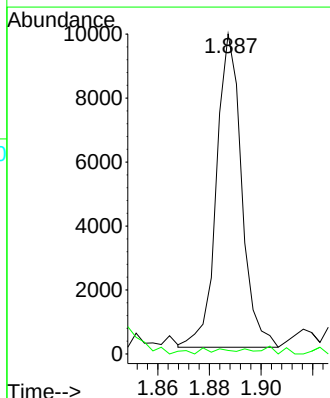
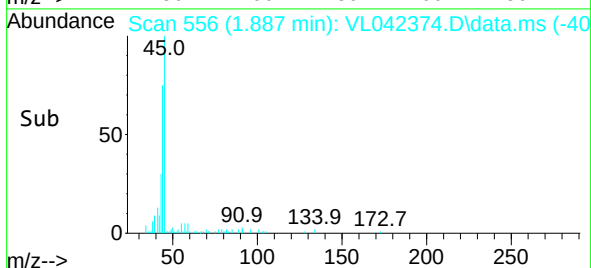
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

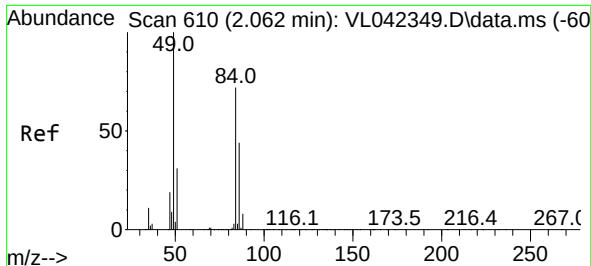


#19
Isopropyl Alcohol
Concen: 0.698 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28



Tgt Ion: 45 Resp: 6632
Ion Ratio Lower Upper
45 100
58 115.4 34.5 51.7#





#20

Methylene Chloride

Concen: 1.233 ppbv

RT: 2.062 min Scan# 610

Delta R.T. 0.000 min

Lab File: VL042374.D

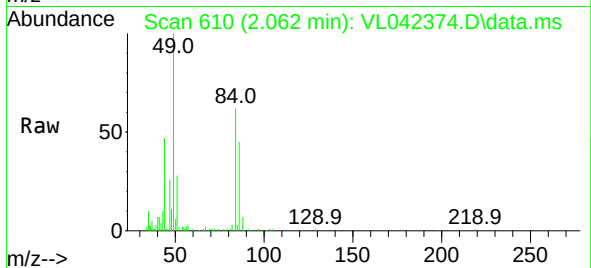
Acq: 18 Apr 2025 00:28

Instrument :

MSVOA_L

ClientSampleId :

IA-B1-4-3252025DL



Tgt Ion: 84 Resp: 8259

Ion Ratio Lower Upper

84 100

49 161.3 111.6 167.4

51 44.5 35.1 52.7

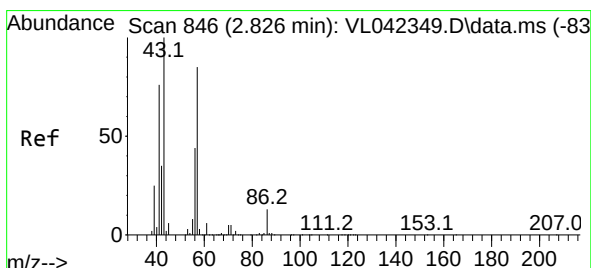
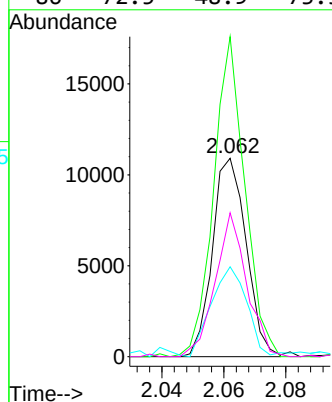
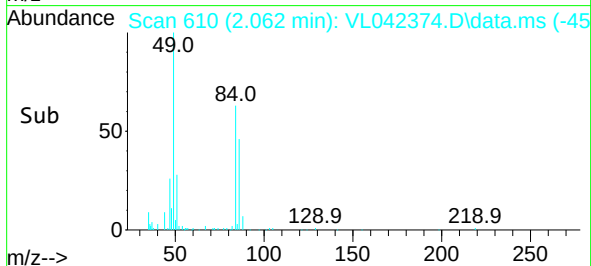
86 72.5 48.9 73.3

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#26

Hexane

Concen: 1.041 ppbv

RT: 2.823 min Scan# 845

Delta R.T. -0.003 min

Lab File: VL042374.D

Acq: 18 Apr 2025 00:28

Tgt Ion: 57 Resp: 17764

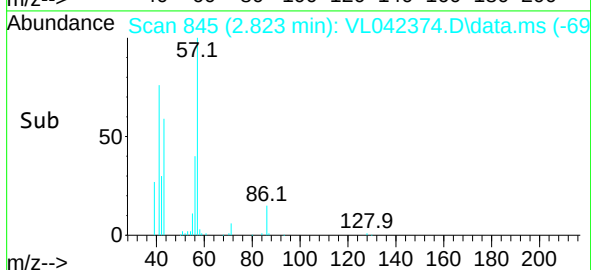
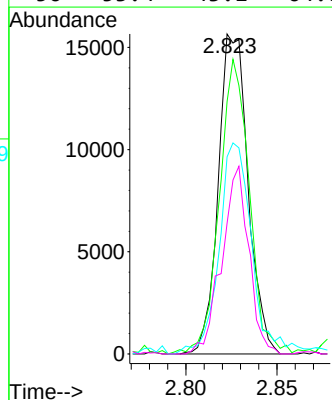
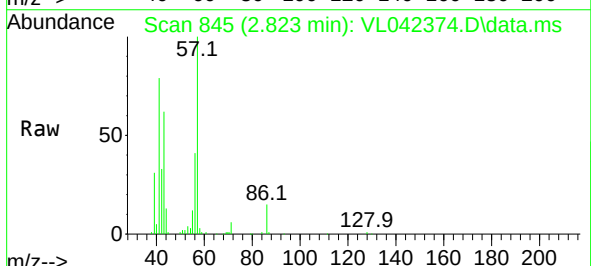
Ion Ratio Lower Upper

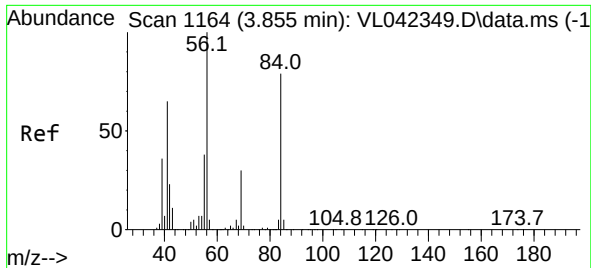
57 100

41 92.1 77.9 116.9

43 74.3 208.4 312.6#

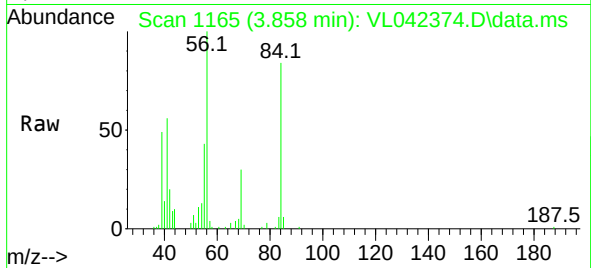
56 53.4 43.1 64.7





#30
Cyclohexane
Concen: 0.966 ppbv
RT: 3.858 min Scan# 1165
Delta R.T. 0.003 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

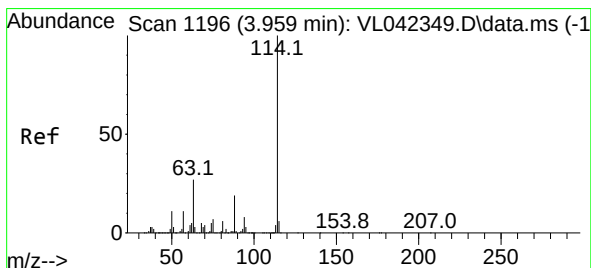
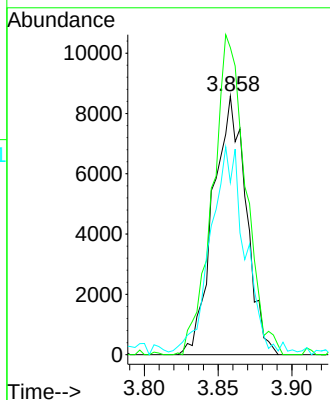
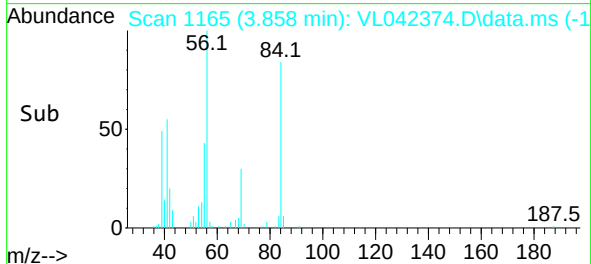
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DL



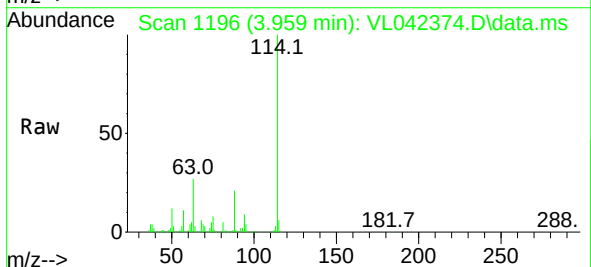
Tgt Ion: 84 Resp: 1332
Ion Ratio Lower Upper
84 100
56 124.4 101.0 151.4
41 88.1 67.4 101.0

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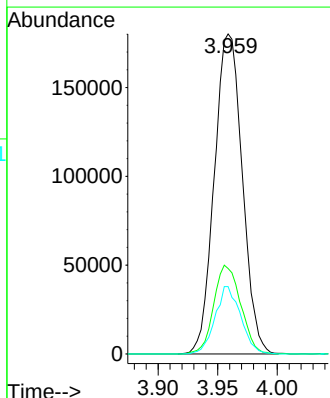
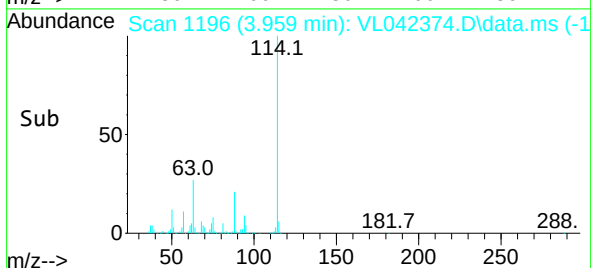
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

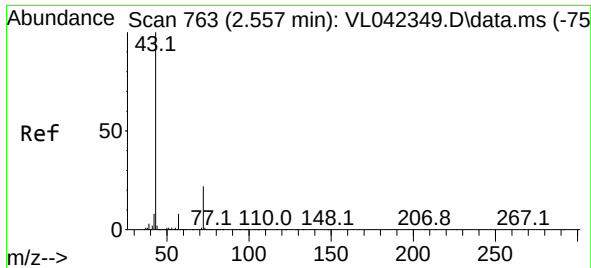


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. 0.000 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28



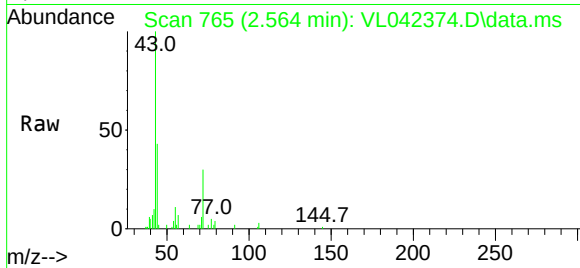
Tgt Ion:114 Resp: 294101
Ion Ratio Lower Upper
114 100
63 26.8 21.8 32.6
88 19.2 15.5 23.3





#34
2-Butanone
Concen: 0.224 ppbv m
RT: 2.564 min Scan# 765
Delta R.T. 0.006 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

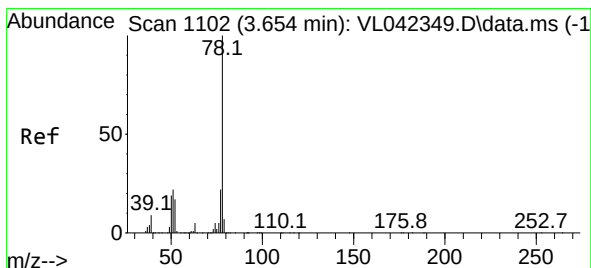
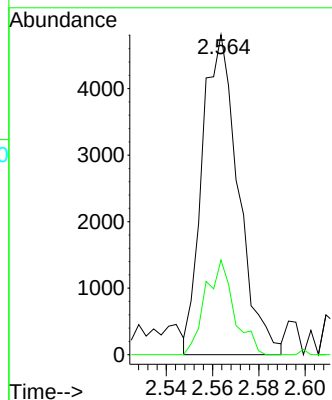
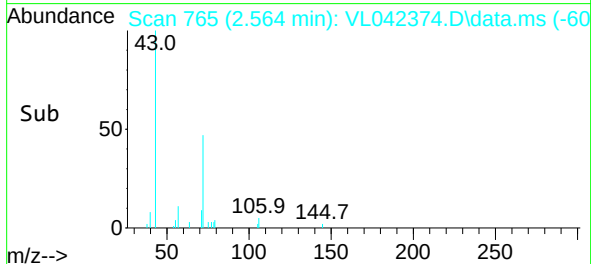
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DL



Tgt Ion: 43 Resp: 5208
Ion Ratio Lower Upper
43 100
72 23.6 18.2 27.2

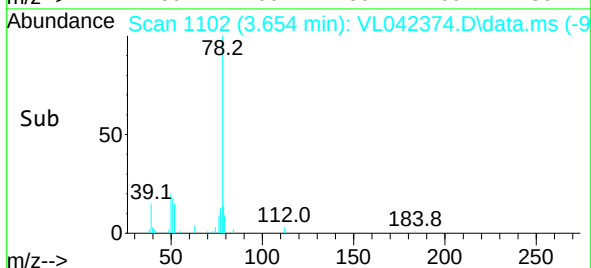
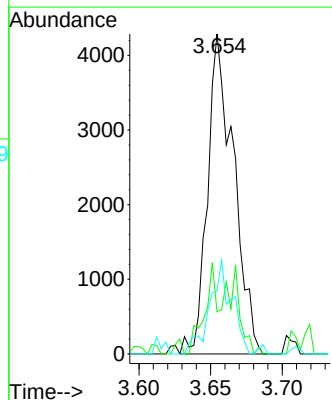
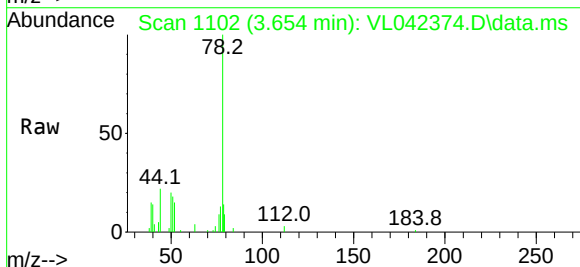
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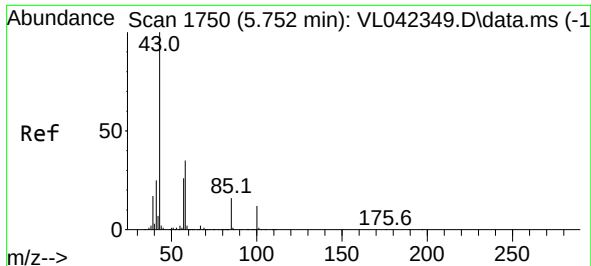
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#36
Benzene
Concen: 0.172 ppbv m
RT: 3.654 min Scan# 1102
Delta R.T. 0.000 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Tgt Ion: 78 Resp: 5447
Ion Ratio Lower Upper
78 100
77 13.2 17.4 26.0#
50 19.6 15.5 23.3





#50

4-Methyl-2-Pentanone

Concen: 5.180 ppbv

RT: 5.755 min Scan# 1750

Delta R.T. 0.003 min

Lab File: VL042374.D

Acq: 18 Apr 2025 00:28

Instrument :

MSVOA_L

ClientSampleId :

IA-B1-4-3252025DL

Tgt Ion: 43 Resp: 20023

Ion Ratio Lower Upper

43 100

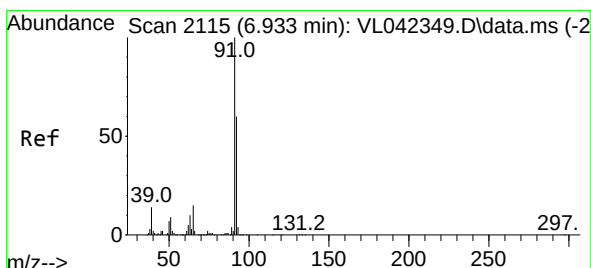
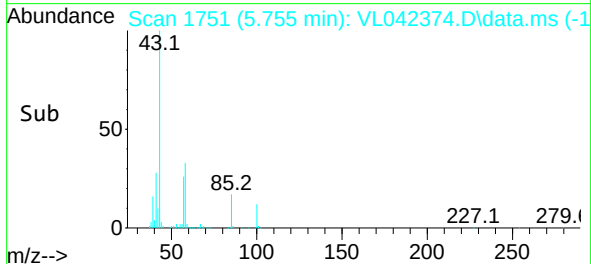
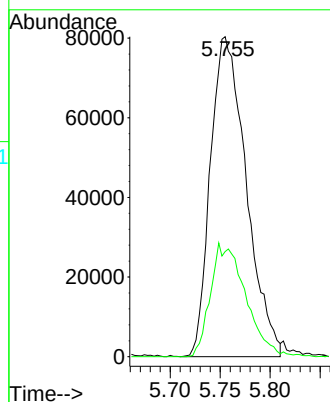
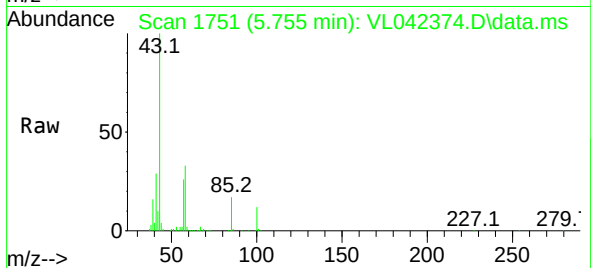
58 34.8 28.6 43.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#53

Toluene

Concen: 0.450 ppbv m

RT: 6.933 min Scan# 2115

Delta R.T. 0.000 min

Lab File: VL042374.D

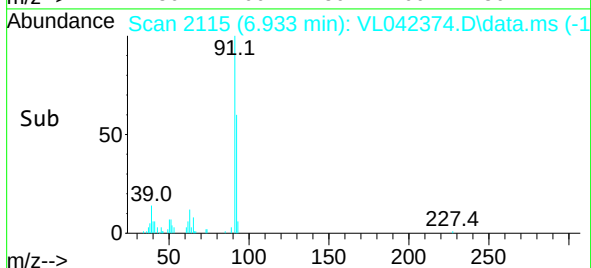
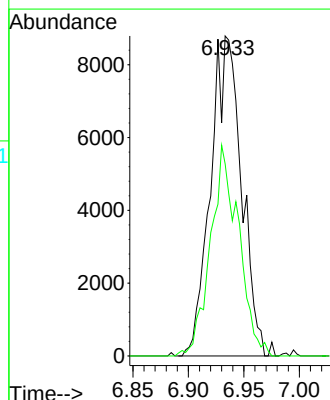
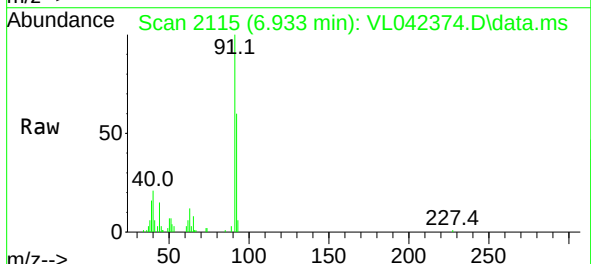
Acq: 18 Apr 2025 00:28

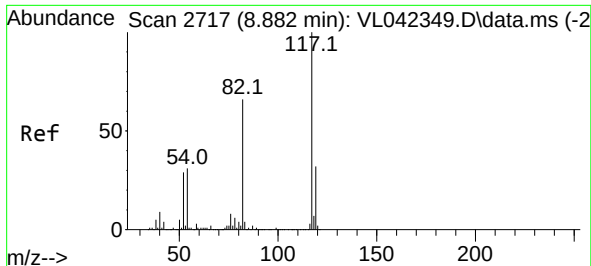
Tgt Ion: 91 Resp: 17117

Ion Ratio Lower Upper

91 100

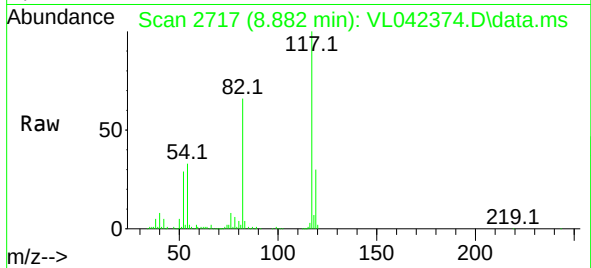
92 59.7 48.2 72.4





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2717
Delta R.T. 0.000 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

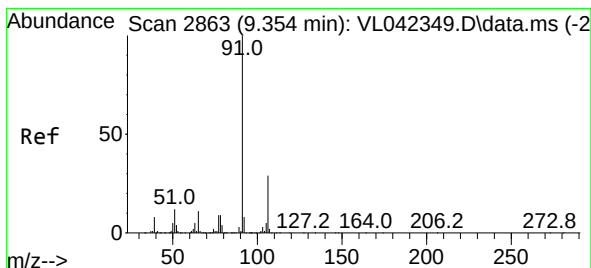
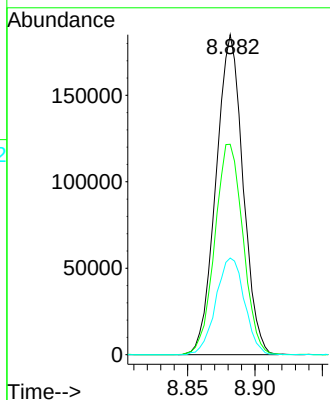
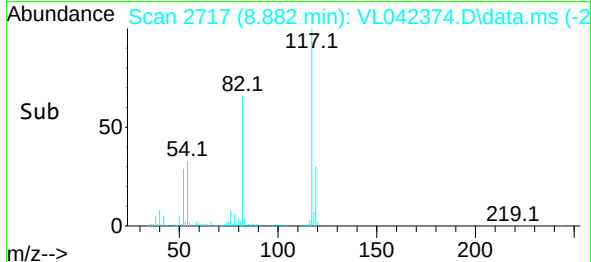
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DL



Tgt Ion: 117 Resp: 25844
Ion Ratio Lower Upper
117 100
82 68.7 57.8 86.6
119 31.9 25.2 37.8

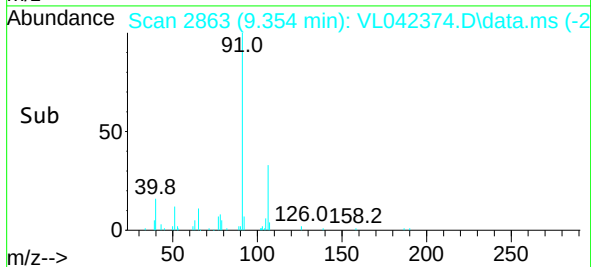
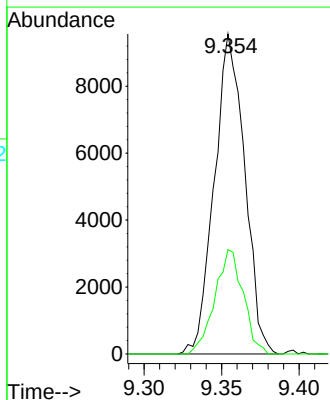
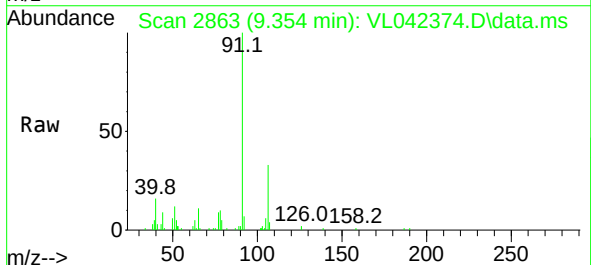
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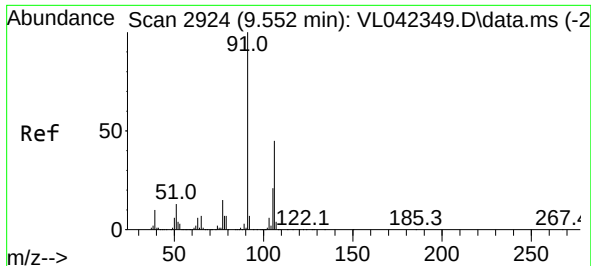
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#58
Ethyl Benzene
Concen: 0.254 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.000 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Tgt Ion: 91 Resp: 13008
Ion Ratio Lower Upper
91 100
106 32.6 23.0 34.4





#59

m/p-Xylene

Concen: 2.529 ppbv

RT: 9.532 min Scan# 2918

Delta R.T. -0.019 min

Lab File: VL042374.D

Acq: 18 Apr 2025 00:28

Instrument :

MSVOA_L

ClientSampleId :

IA-B1-4-3252025DL

Tgt Ion: 91 Resp: 104338

Ion Ratio Lower Upper

91 100

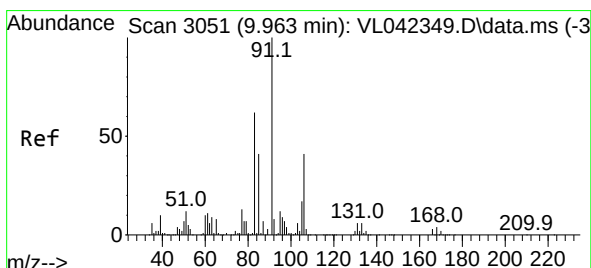
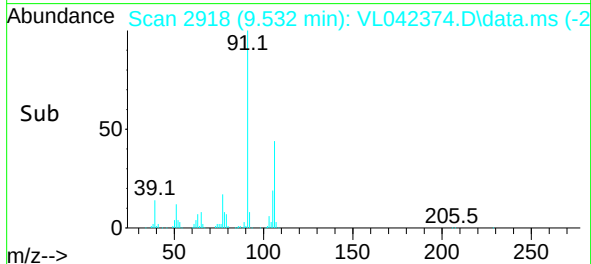
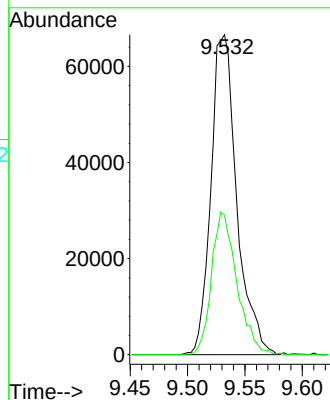
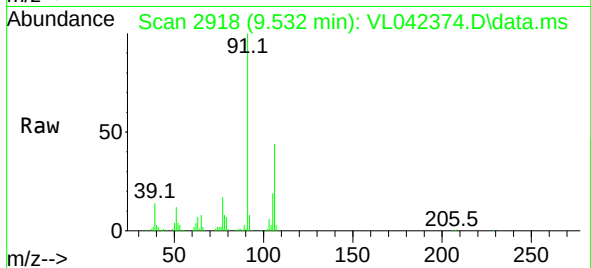
106 43.8 35.4 53.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#60

o-Xylene

Concen: 0.536 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. 0.000 min

Lab File: VL042374.D

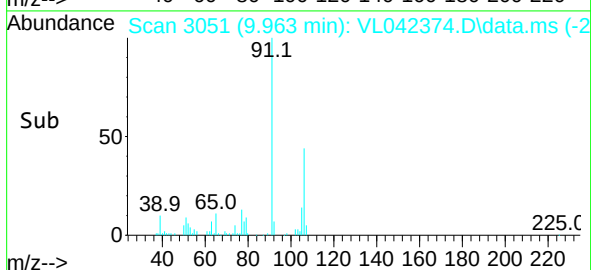
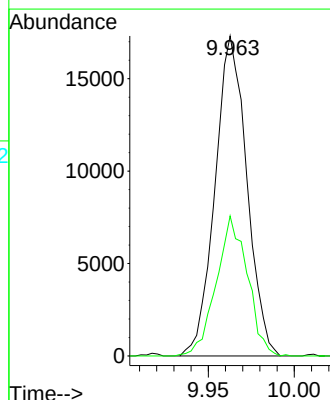
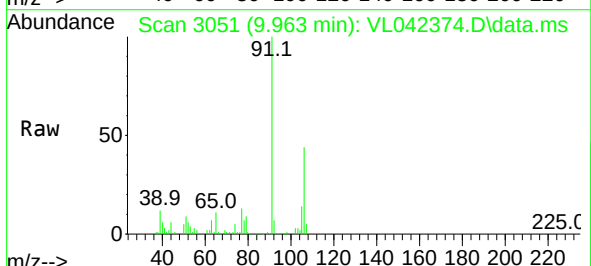
Acq: 18 Apr 2025 00:28

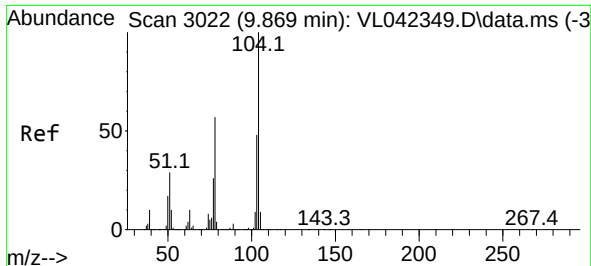
Tgt Ion: 91 Resp: 22264

Ion Ratio Lower Upper

91 100

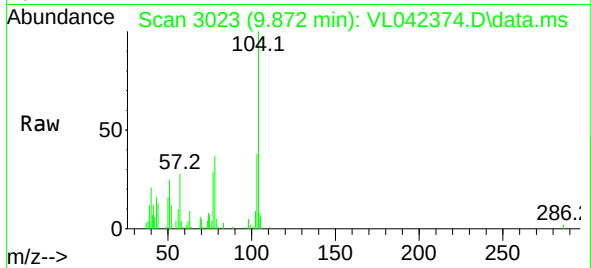
106 42.8 21.1 63.4





#61
Styrene
Concen: 0.427 ppbv
RT: 9.872 min Scan# 3022
Delta R.T. 0.003 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

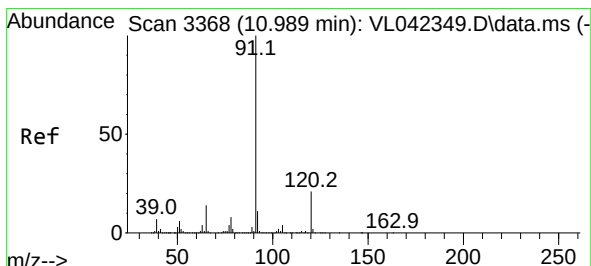
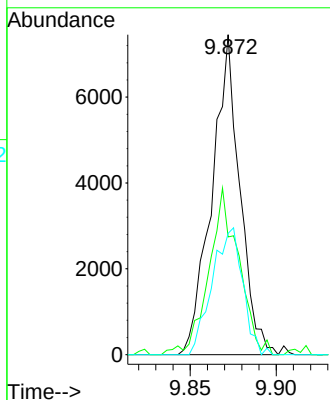
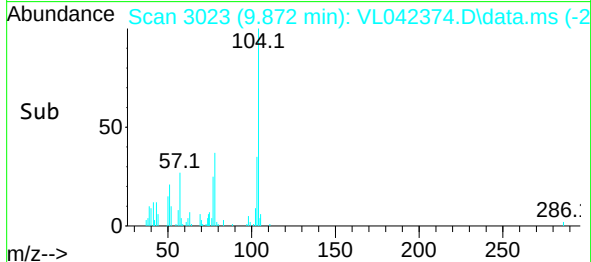
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DL



Tgt Ion:104 Resp: 8460
Ion Ratio Lower Upper
104 100
78 57.0 44.6 66.8
103 43.3 37.4 56.0

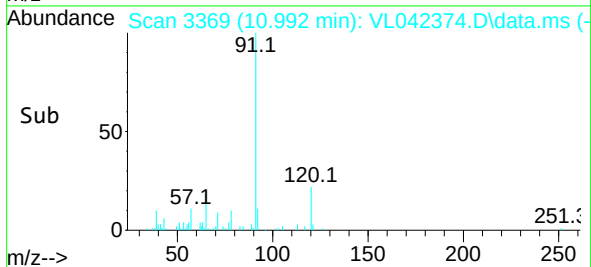
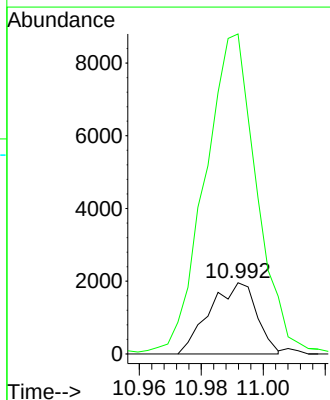
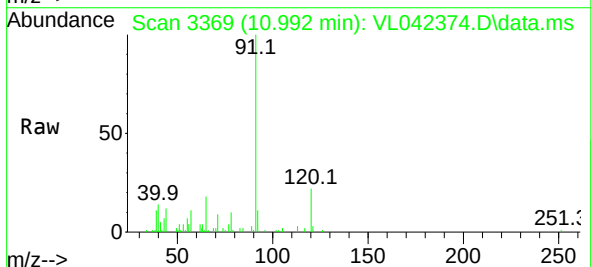
Manual Integrations
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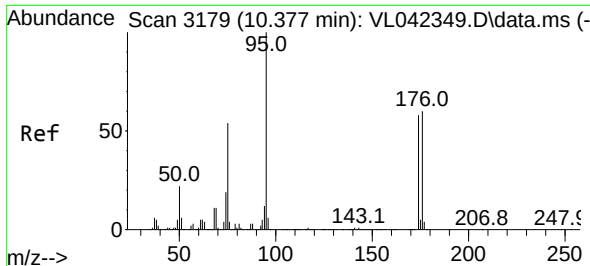
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#64
n-propylbenzene
Concen: 0.135 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. 0.003 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

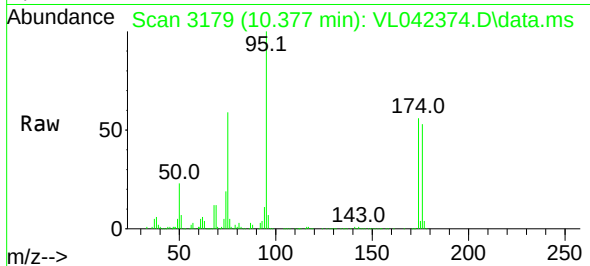
Tgt Ion:120 Resp: 2068
Ion Ratio Lower Upper
120 100
91 513.7 392.4 588.6





#68
1-Bromo-4-Fluorobenzene
Concen: 10.036 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.000 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

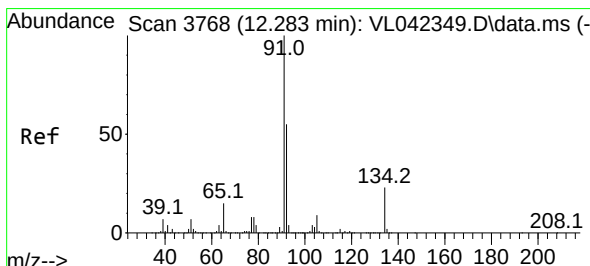
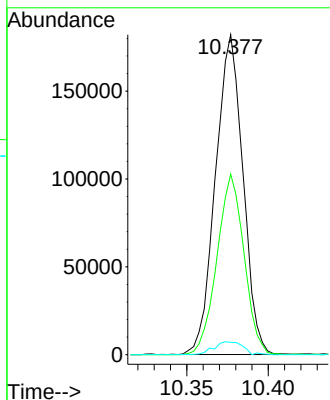
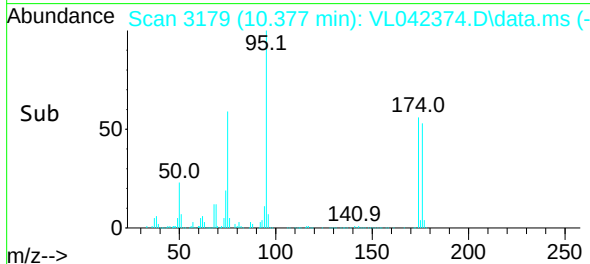
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DL



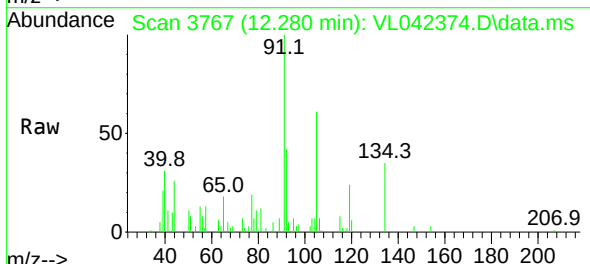
Tgt Ion: 95 Resp: 213140
Ion Ratio Lower Upper
95 100
174 55.7 48.5 72.7
175 4.3 3.7 5.5

Manual Integrations
APPROVED

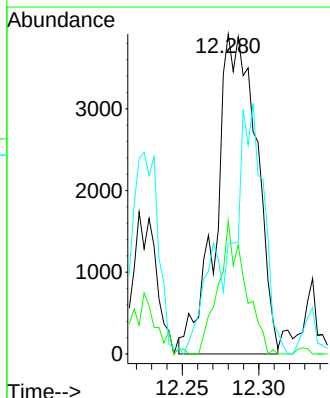
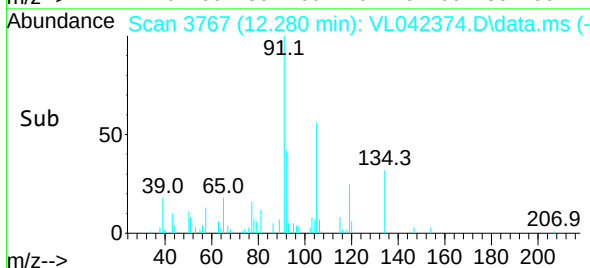
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

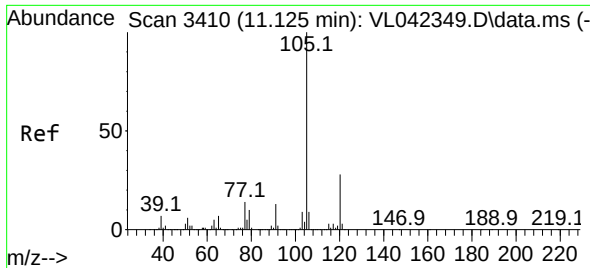


#70
n-Butylbenzene
Concen: 0.101 ppbv m
RT: 12.280 min Scan# 3767
Delta R.T. -0.003 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28



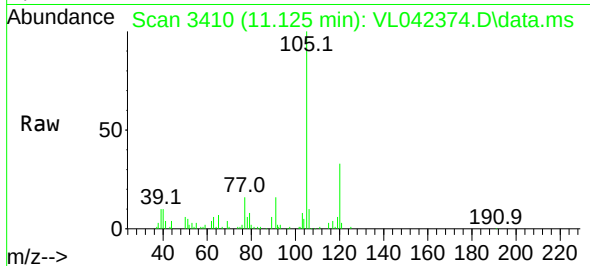
Tgt Ion: 91 Resp: 7143
Ion Ratio Lower Upper
91 100
92 27.5 44.2 66.4#
134 73.6 18.2 27.4#





#72
4-Ethyltoluene
Concen: 0.289 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.000 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

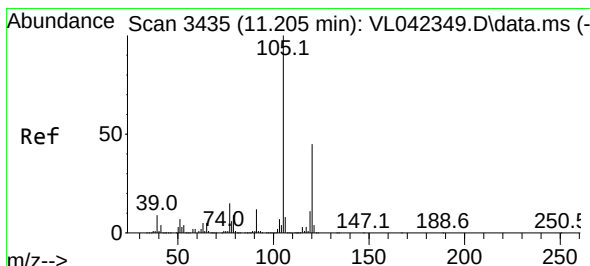
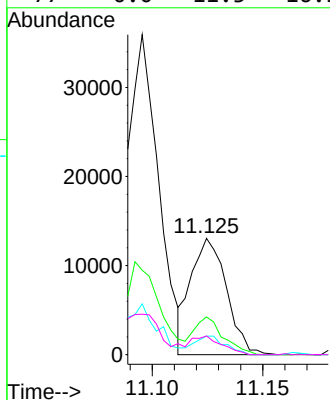
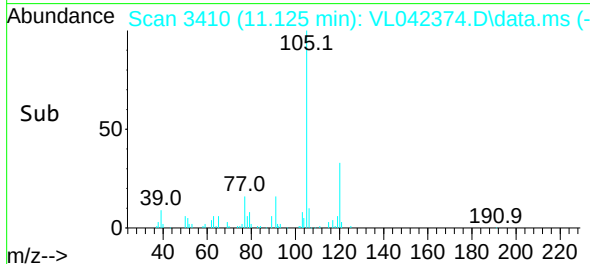
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DL



Tgt Ion:105 Resp: 1467
Ion Ratio Lower Upper
105 100
120 0.0 23.2 34.8
91 0.0 10.4 15.6
77 0.0 11.3 16.9

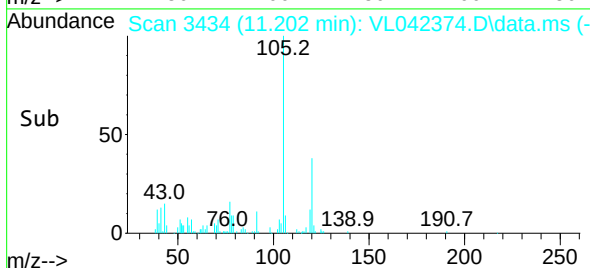
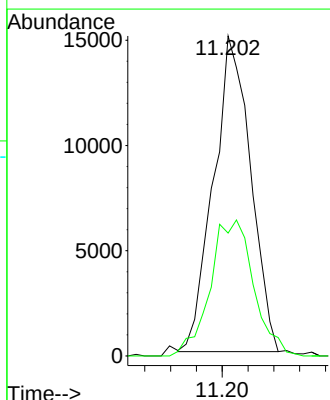
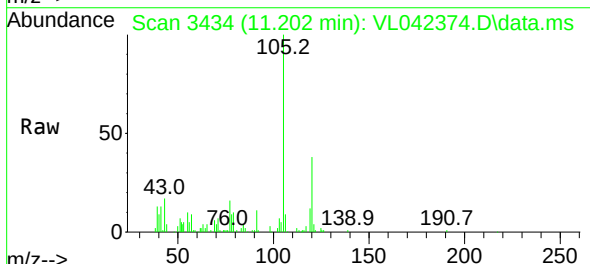
Manual Integrations
APPROVED

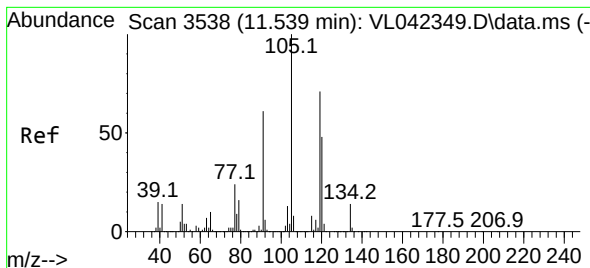
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#73
1,3,5-Trimethylbenzene
Concen: 0.334 ppbv
RT: 11.202 min Scan# 3434
Delta R.T. -0.003 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Tgt Ion:105 Resp: 14990
Ion Ratio Lower Upper
105 100
120 37.5 35.6 53.4





#74

1,2,4-Trimethylbenzene

Concen: 1.062 ppbv

RT: 11.536 min Scan# 3538

Delta R.T. -0.003 min

Lab File: VL042374.D

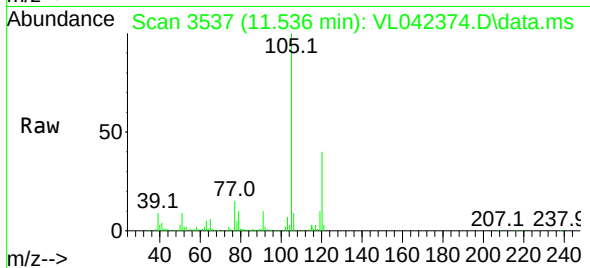
Acq: 18 Apr 2025 00:28

Instrument :

MSVOA_L

ClientSampleId :

IA-B1-4-3252025DL

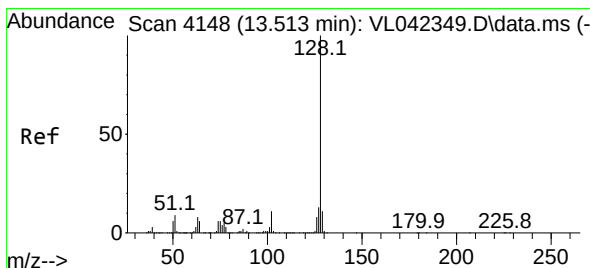
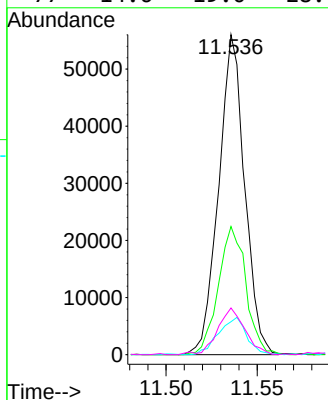
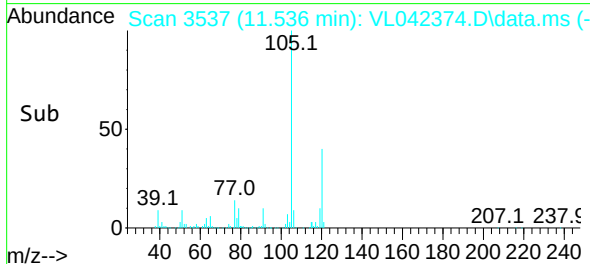


Tgt Ion	Ratio	Lower	Upper
105	100		
120	40.1	38.1	57.1
91	10.2	48.8	73.2
77	14.6	19.0	28.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#79

Naphthalene

Concen: 0.153 ppbv

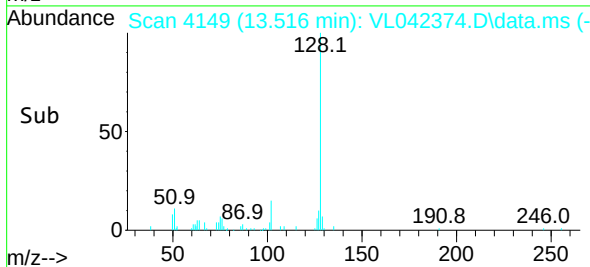
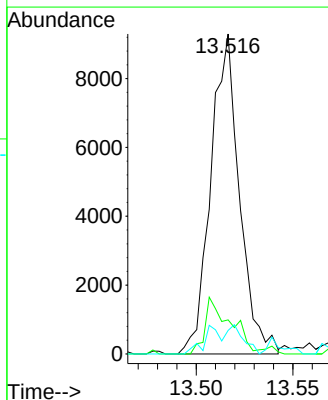
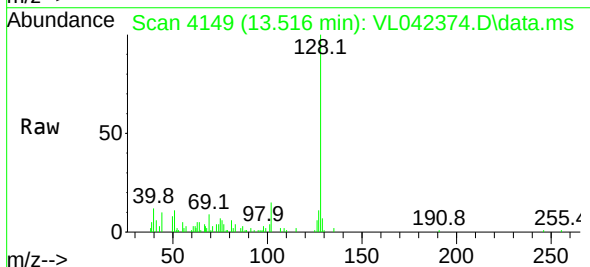
RT: 13.516 min Scan# 4149

Delta R.T. 0.003 min

Lab File: VL042374.D

Acq: 18 Apr 2025 00:28

Tgt Ion	Ratio	Lower	Upper
128	100		
127	10.6	10.6	15.8
129	7.3	8.6	12.8



Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/26/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/27/25
Client Sample ID:	IA-B1-2-3252025	SDG No.:	Q1668
Lab Sample ID:	Q1668-02	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042365.D	1		04/17/25 19:31	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.44	2.18	J	1.04	2.47	ug/m3
74-87-3	Chloromethane	0.53	1.09		0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.010	0.030	U	0.030	0.080	ug/m3
74-83-9	Bromomethane	0.14	0.54	U	0.54	1.94	ug/m3
75-00-3	Chloroethane	0.17	0.45	U	0.45	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.13	0.38	U	0.38	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.22	1.24	J	0.90	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.16	1.23	U	1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.090	0.63	U	0.63	3.49	ug/m3
75-65-0	tert-Butyl alcohol	0.22	0.67	J	0.58	1.52	ug/m3
142-82-5	Heptane	1.30	5.33		0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
67-64-1	Acetone	5.40	12.8		0.57	1.19	ug/m3
75-15-0	Carbon Disulfide	0.16	0.50	U	0.50	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.12	0.43	U	0.43	1.80	ug/m3
75-09-2	Methylene Chloride	1.40	4.86		0.66	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.19	0.75	U	0.75	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.13	0.53	U	0.53	2.02	ug/m3
110-82-7	Cyclohexane	1.10	3.79		0.76	1.72	ug/m3
78-93-3	2-Butanone	0.58	1.71		0.35	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.070	0.44		0.060	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.090	0.36	U	0.36	1.98	ug/m3
67-66-3	Chloroform	0.080	0.39	U	0.39	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.010	0.050	U	0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.22	1.03	J	0.47	2.34	ug/m3
71-43-2	Benzene	0.52	1.66		0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.090	0.36	U	0.36	2.02	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.11	0.51	U	0.51	2.31	ug/m3
75-27-4	Bromodichloromethane	0.080	0.54	U	0.54	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	11.7	48.0		0.37	2.05	ug/m3
108-88-3	Toluene	1.40	5.28		0.41	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.070	0.38	U	0.38	2.73	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/26/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/27/25
Client Sample ID:	IA-B1-2-3252025	SDG No.:	Q1668
Lab Sample ID:	Q1668-02	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042365.D	1		04/17/25 19:31	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.070	0.60	U	0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.070	0.54	U	0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	0.030	0.20		0.14	0.20	ug/m3
108-90-7	Chlorobenzene	0.080	0.37	U	0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	0.95	4.13		0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	5.90	25.6		0.91	4.34	ug/m3
95-47-6	o-Xylene	2.30	9.99		0.52	2.17	ug/m3
100-42-5	Styrene	0.47	2.00	J	0.47	2.13	ug/m3
75-25-2	Bromoform	0.060	0.62	U	0.62	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.010	0.070	U	0.070	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.11	0.57	U	0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	1.80	8.85		0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	5.40	26.6		0.39	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.050	0.30	U	0.30	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.090	0.67	U	0.67	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.090	0.96	U	0.96	5.33	ug/m3
106-99-0	1,3-Butadiene	0.13	0.29	U	0.29	1.11	ug/m3
91-20-3	Naphthalene	0.47	2.46		0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	1.30	6.39		0.59	2.46	ug/m3
110-54-3	Hexane	2.70	9.52		0.39	1.76	ug/m3
107-05-1	Allyl Chloride	0.15	0.47	U	0.47	1.57	ug/m3
123-91-1	1,4-Dioxane	0.21	0.76	U	0.76	1.80	ug/m3
80-62-6	Methyl Methacrylate	0.090	0.37	U	0.37	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.90			70 (65) - 130 (135)	99%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	121000		2.787			
540-36-3	1,4-Difluorobenzene	339000		3.959			
3114-55-4	Chlorobenzene-d5	302000		8.879			
TENTITIVE IDENTIFIED COMPOUNDS							
75-45-6	Chlorodifluoromethane	0.26		J		1.48	ppbv
115-07-1	Propene	0.64		J		1.49	ppbv
64-17-5	Ethanol	140		J		1.72	ppbv

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/26/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/27/25
Client Sample ID:	IA-B1-2-3252025	SDG No.:	Q1668
Lab Sample ID:	Q1668-02	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042365.D	1		04/17/25 19:31	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
67-63-0	Isopropyl Alcohol	3.60		J		1.88	ppbv
000589-34-4	Hexane, 3-methyl-	3.10		J		4.27	ppbv
98-82-8	Isopropylbenzene	0.15		J		10.5	ppbv
103-65-1	n-propylbenzene	0.63		J		11.0	ppbv
000124-18-5	Decane	3.80		J		11.8	ppbv
104-51-8	n-Butylbenzene	0.54		J		12.3	ppbv
000934-80-5	Benzene, 4-ethyl-1,2-dimethyl-	3.50		J		12.6	ppbv
001120-21-4	Undecane	2.90		J		12.8	ppbv
003454-07-7	Benzene, 1-ethenyl-4-ethyl-	2.60		J		13.2	ppbv
000119-64-2	Naphthalene, 1,2,3,4-tetrahydro-	2.70		J		13.3	ppbv
053172-84-2	Benzene, (1-methyl-1-butenyl)-	3.10		J		13.7	ppbv
000112-40-3	Dodecane	3.40		J		13.7	ppbv
002809-64-5	Naphthalene, 1,2,3,4-tetrahydro-5-	3.60		J		14.2	ppbv
91-57-6	Naphthalene,2-methyl-	0.59		J		14.5	ppbv
000629-50-5	Tridecane	3.40		J		14.5	ppbv

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042365.D
 Acq On : 17 Apr 2025 19:31
 Operator : SY/MD
 Sample : Q1668-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B1-2-3252025

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 02:41:43 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025

QLast Update : Fri Apr 18 02:14:00 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	121182	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	339124	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.879	117	302443	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	245115	9.863	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.600%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.496	85	9435	0.441	ppbv	98
3) Chlorodifluoromethane	1.476	51	5228m	0.256	ppbv	
4) Chloromethane	1.531	50	4486	0.529	ppbv	96
9) Propene	1.486	41	5899	0.635	ppbv	91
10) Heptane	4.972	43	33617m	1.289	ppbv	
11) Trichlorofluoromethane	1.878	101	4539m	0.223	ppbv	
13) Ethanol	1.719	45	204918	138.854	ppbv	75
15) Acetone	1.836	43	106421	5.365	ppbv	91
17) tert-Butyl alcohol	2.043	59	5385	0.219	ppbv #	64
19) Isopropyl Alcohol	1.884	45	39284	3.565	ppbv #	69
20) Methylene Chloride	2.062	84	10711	1.379	ppbv	95
26) Hexane	2.823	57	53574	2.707	ppbv #	34
30) Cyclohexane	3.855	84	18328	1.145	ppbv	96
34) 2-Butanone	2.561	43	15661	0.584	ppbv	94
35) Carbon Tetrachloride	3.768	117	2276m	0.074	ppbv	
36) Benzene	3.655	78	18848m	0.515	ppbv	
44) 2,2,4-Trimethylpentane	4.635	57	14126m	0.224	ppbv	
50) 4-Methyl-2-Pentanone	5.746	43	520966	11.689	ppbv	98
52) Tetrachloroethene	8.225	164	470m	0.033	ppbv	
53) Toluene	6.930	91	61358	1.398	ppbv	98
58) Ethyl Benzene	9.354	91	56996	0.951	ppbv	97
59) m/p-Xylene	9.529	91	287156	5.949	ppbv	99
60) o-Xylene	9.960	91	110047	2.264	ppbv	100
61) Styrene	9.869	104	10782	0.465	ppbv	96
62) Isopropylbenzene	10.536	105	10773	0.151	ppbv	98
64) n-propylbenzene	10.989	120	11220	0.625	ppbv	96
70) n-Butylbenzene	12.287	91	44270m	0.536	ppbv	
72) 4-Ethyltoluene	11.125	105	77634	1.306	ppbv #	56
73) 1,3,5-Trimethylbenzene	11.203	105	92546	1.764	ppbv	99
74) 1,2,4-Trimethylbenzene	11.536	105	330358	5.391	ppbv #	64
79) Naphthalene	13.513	128	34564	0.472	ppbv	98
80) Naphthalene,2-methyl-	14.459	142	24628m	0.590	ppbv	

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

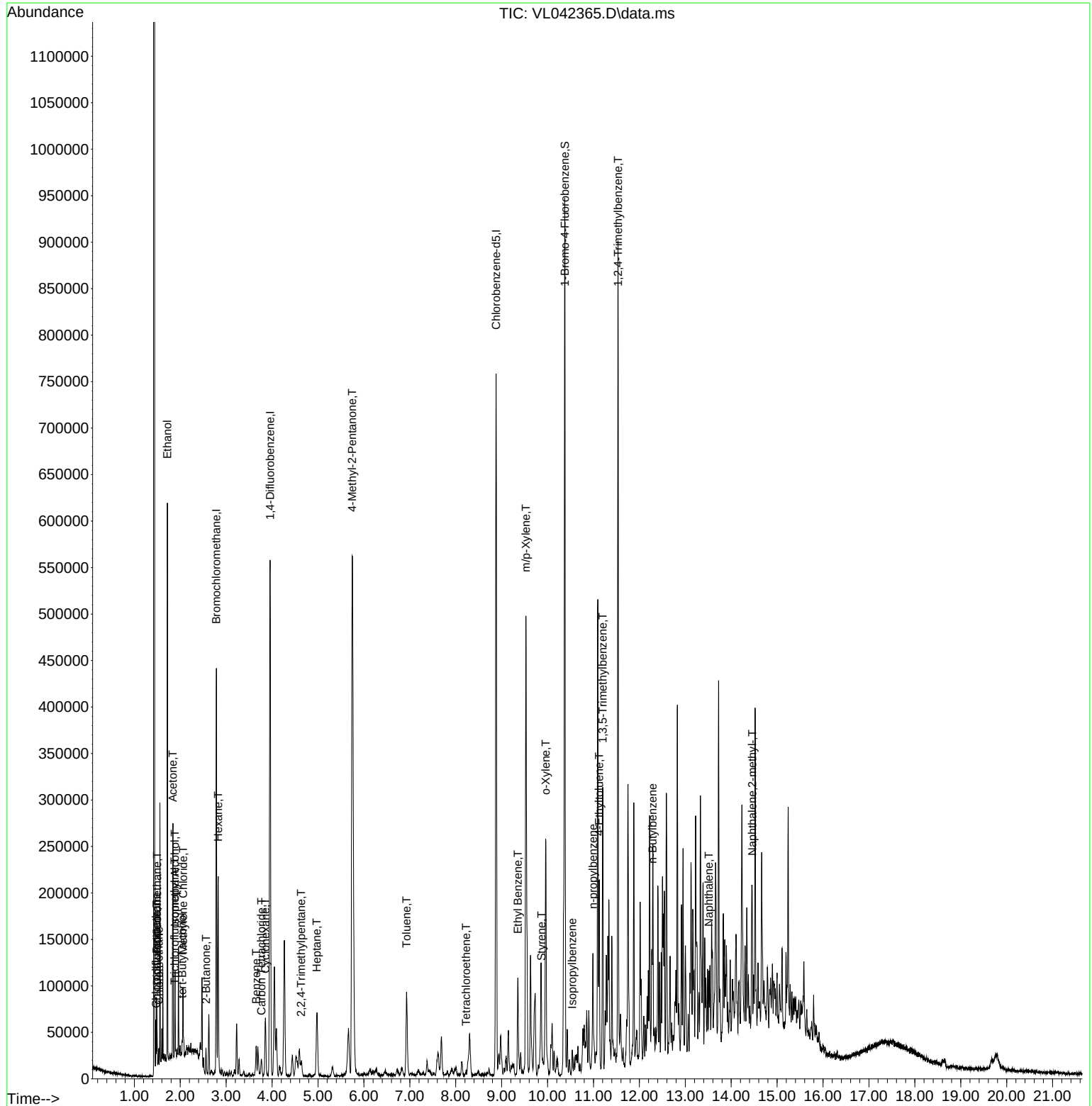
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Data File : VL042365.D  
Acq On    : 17 Apr 2025   19:31  
Operator  : SY/MD  
Sample    : Q1668-02  
Misc      : 400mL/MSVOA_L  
ALS Vial  : 6    Sample Multiplier: 1
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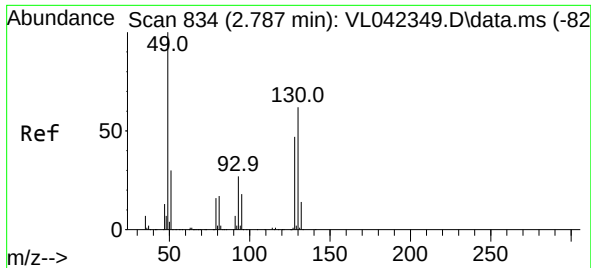
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

Manual Integrations

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

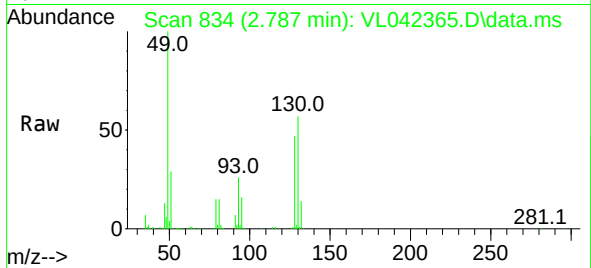
Quant Time: Apr 18 02:41:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
Qlast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 811
Delta R.T. 0.000 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

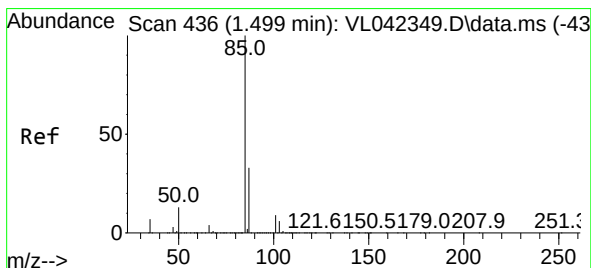
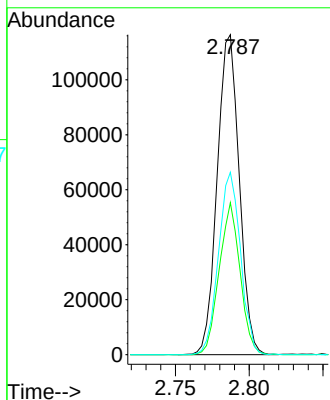
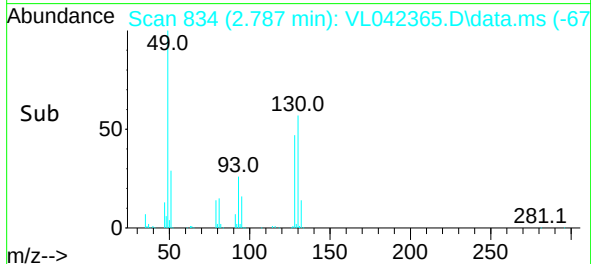
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025



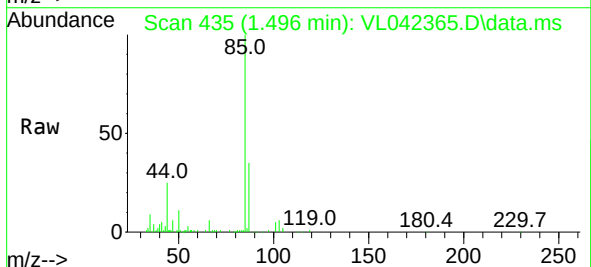
Tgt Ion: 49 Resp: 12118
Ion Ratio Lower Upper
49 100
128 45.0 22.8 68.4
130 56.9 29.3 88.0

Manual Integrations
APPROVED

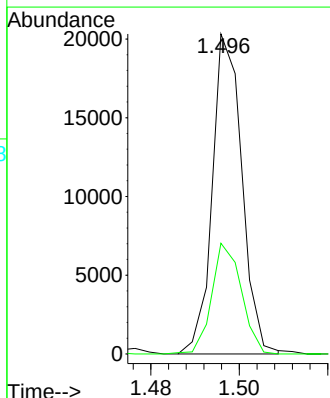
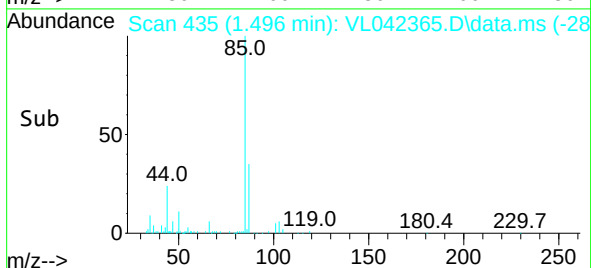
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

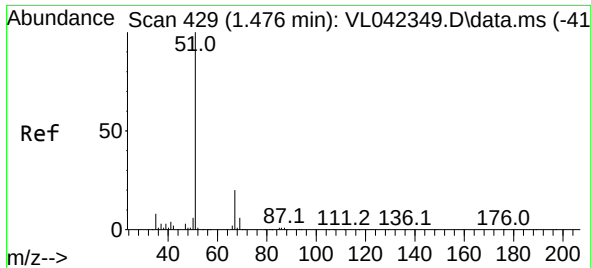


#2
Dichlorodifluoromethane
Concen: 0.441 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31



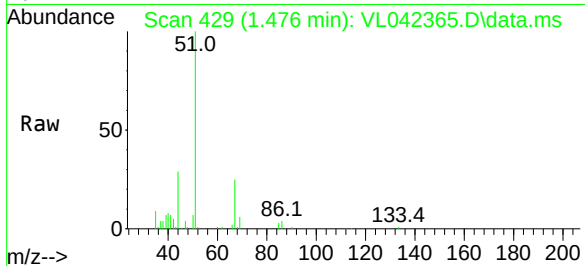
Tgt Ion: 85 Resp: 9435
Ion Ratio Lower Upper
85 100
87 34.6 26.6 39.8





#3
Chlorodifluoromethane
Concen: 0.256 ppbv m
RT: 1.476 min Scan# 429
Delta R.T. 0.000 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

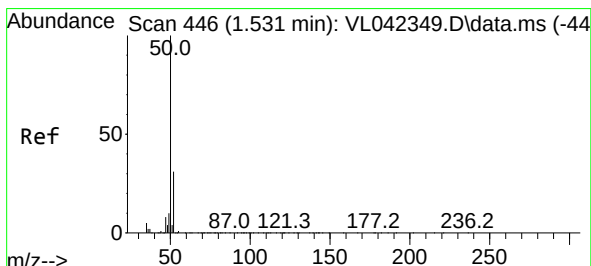
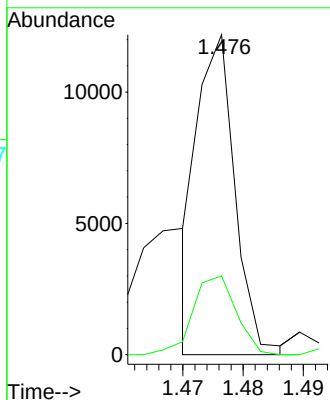
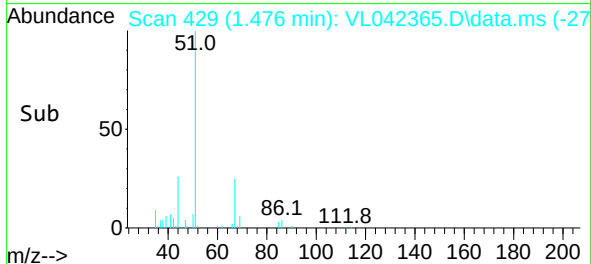
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025



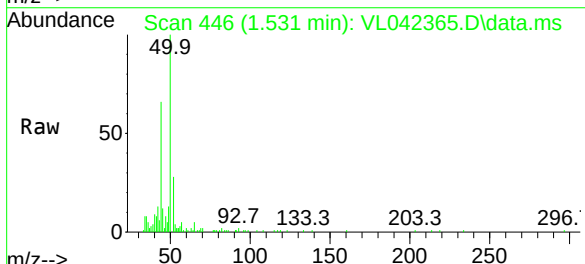
Tgt Ion: 51 Resp: 5228
Ion Ratio Lower Upper
51 100
67 39.0 16.2 24.4

Manual Integrations
APPROVED

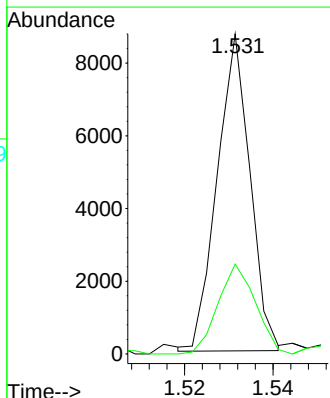
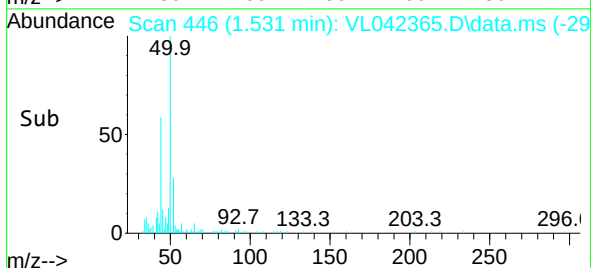
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

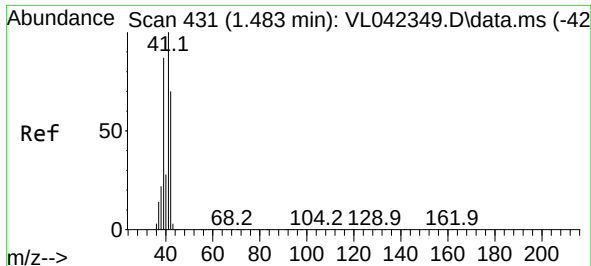


#4
Chloromethane
Concen: 0.529 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31



Tgt Ion: 50 Resp: 4486
Ion Ratio Lower Upper
50 100
52 28.7 24.7 37.1





#9

Propene

Concen: 0.635 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.004 min

Lab File: VL042365.D

Acq: 17 Apr 2025 19:31

Instrument :

MSVOA_L

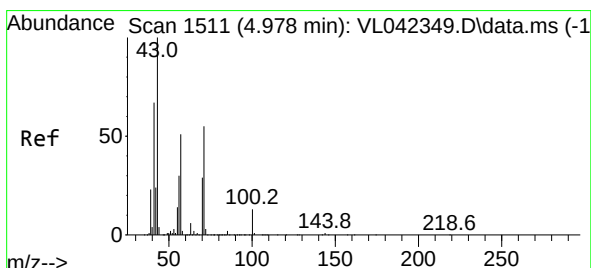
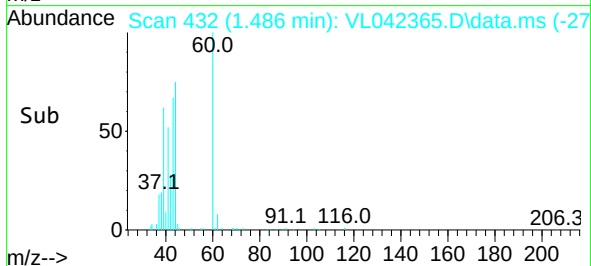
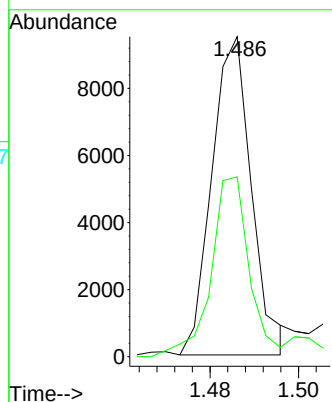
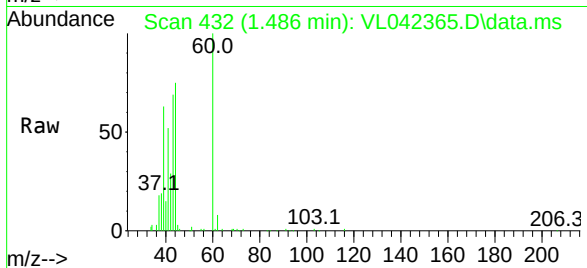
ClientSampleId :

IA-B1-2-3252025

Tgt Ion: 41 Resp: 5899
 Ion Ratio Lower Upper
 41 100
 42 62.7 56.2 84.4

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#10

Heptane

Concen: 1.289 ppbv m

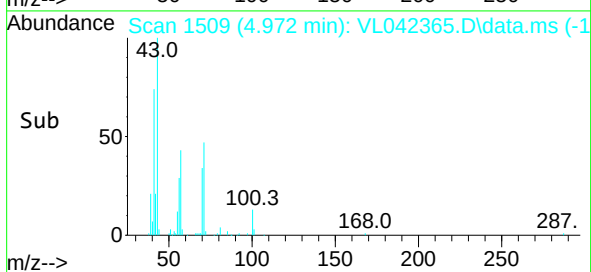
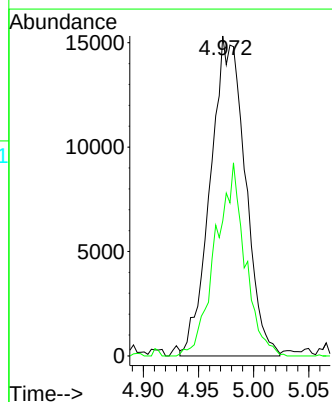
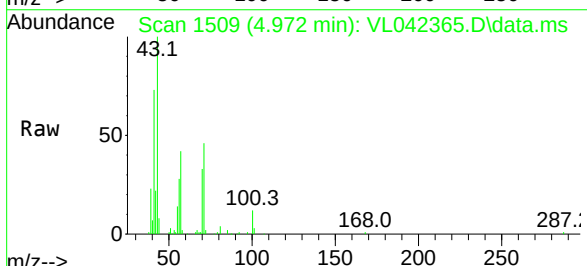
RT: 4.972 min Scan# 1509

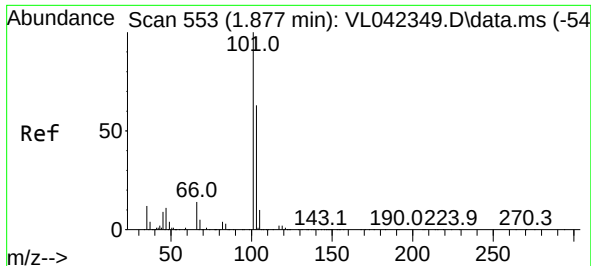
Delta R.T. -0.006 min

Lab File: VL042365.D

Acq: 17 Apr 2025 19:31

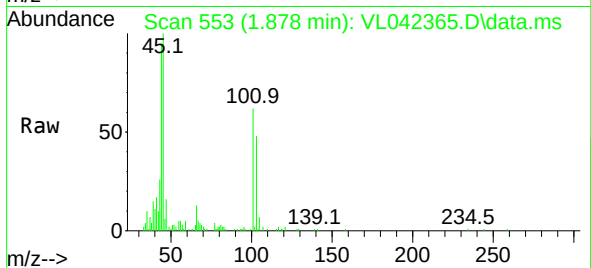
Tgt Ion: 43 Resp: 33617
 Ion Ratio Lower Upper
 43 100
 57 51.2 39.9 59.9





#11
Trichlorofluoromethane
Concen: 0.223 ppbv m
RT: 1.878 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

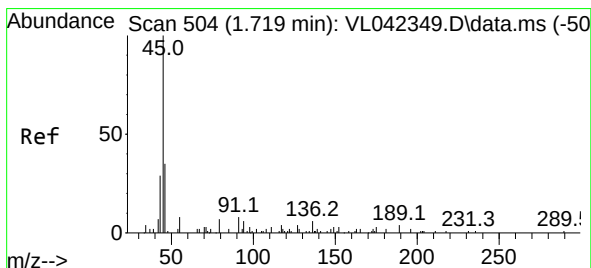
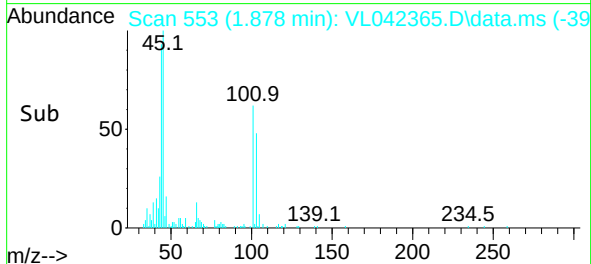
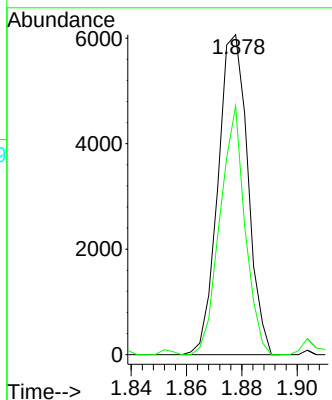
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025



Tgt Ion:101 Resp: 4539
Ion Ratio Lower Upper
101 100
103 77.7 50.1 75.1

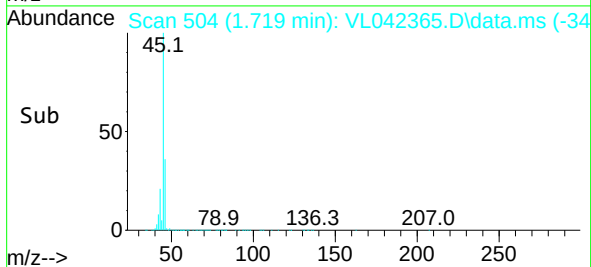
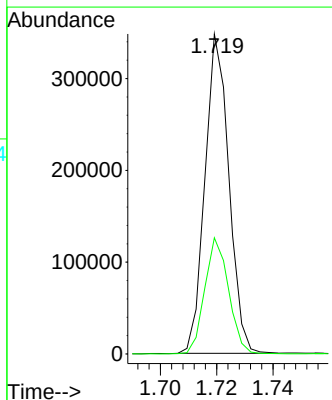
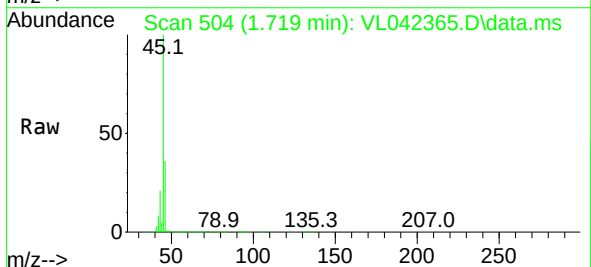
Manual Integrations
APPROVED

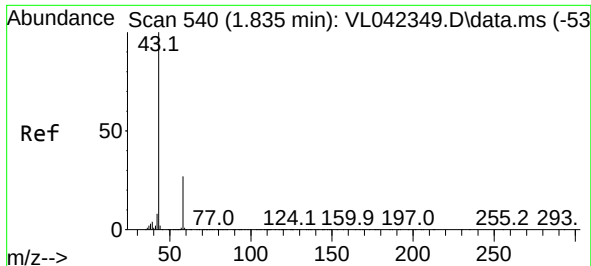
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#13
Ethanol
Concen: 138.854 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

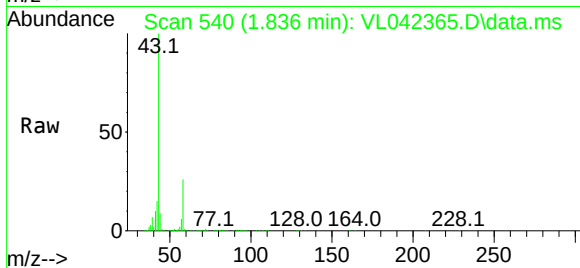
Tgt Ion: 45 Resp: 204918
Ion Ratio Lower Upper
45 100
46 36.7 21.9 87.7





#15
Acetone
Concen: 5.365 ppbv
RT: 1.836 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

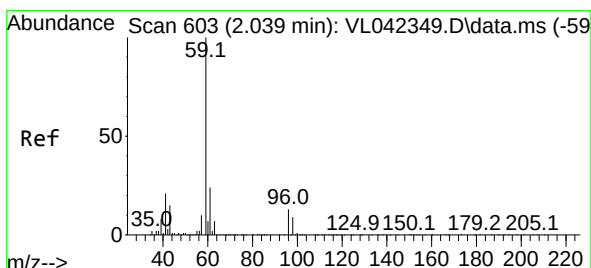
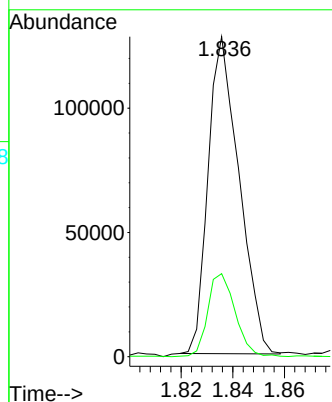
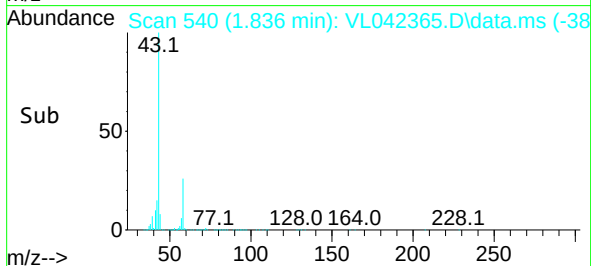
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025



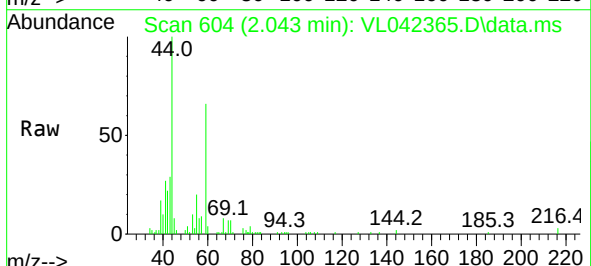
Tgt Ion: 43 Resp: 10642
Ion Ratio Lower Upper
43 100
58 23.2 22.4 33.6

Manual Integrations
APPROVED

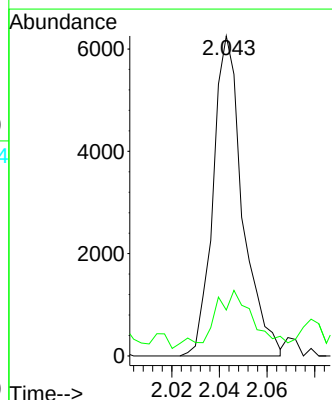
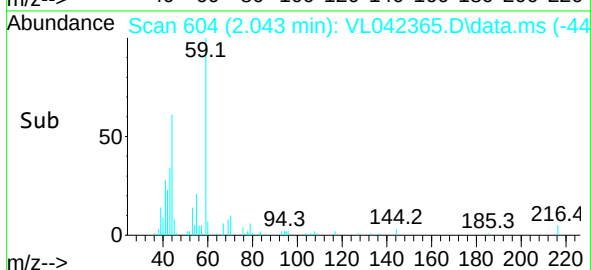
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

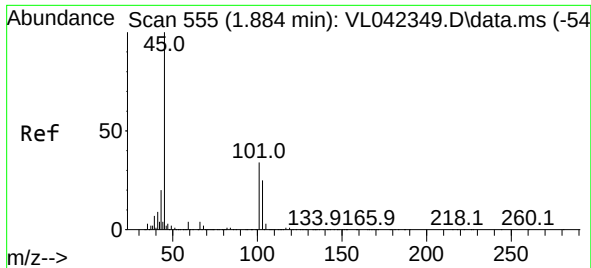


#17
tert-Butyl alcohol
Concen: 0.219 ppbv
RT: 2.043 min Scan# 604
Delta R.T. 0.004 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31



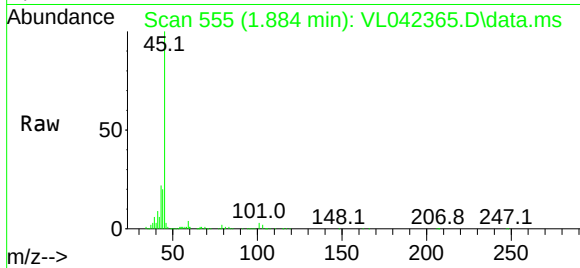
Tgt Ion: 59 Resp: 5385
Ion Ratio Lower Upper
59 100
57 24.5 8.7 13.1#





#19
Isopropyl Alcohol
Concen: 3.565 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.000 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

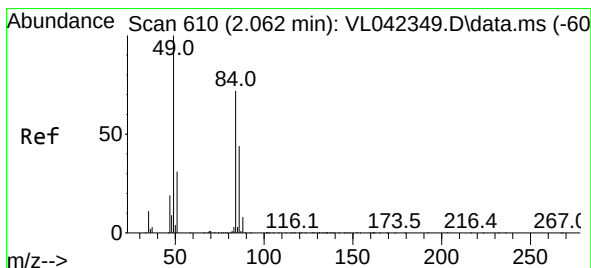
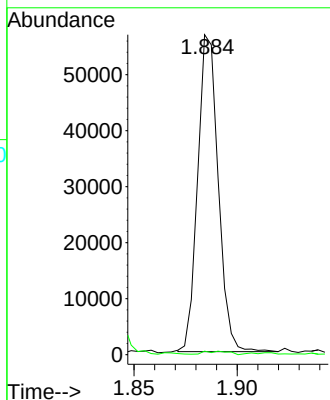
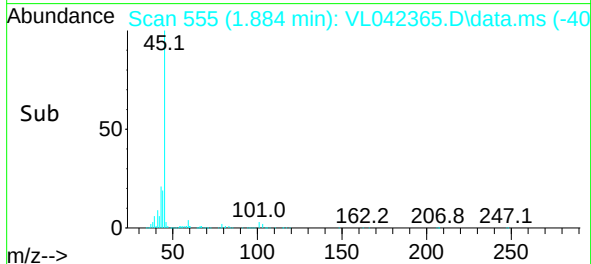
Instrument : MSVOA_L
ClientSampleId : IA-B1-2-3252025



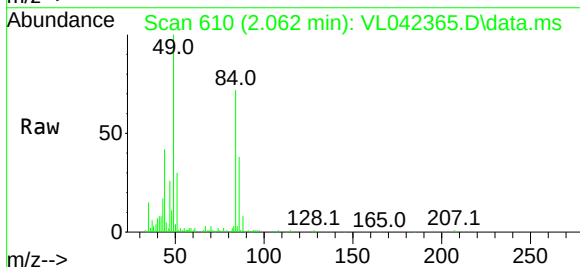
Tgt Ion: 45 Resp: 39284
Ion Ratio Lower Upper
45 100
58 62.9 34.5 51.7

Manual Integrations
APPROVED

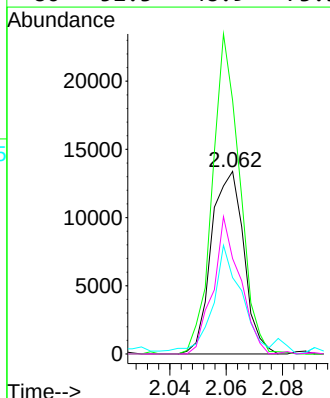
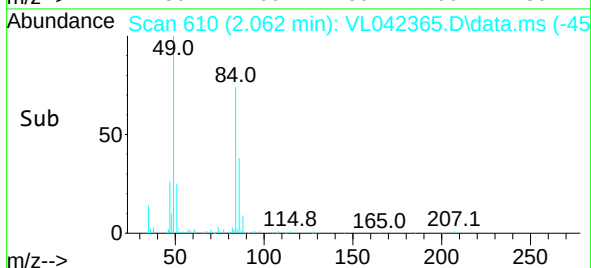
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

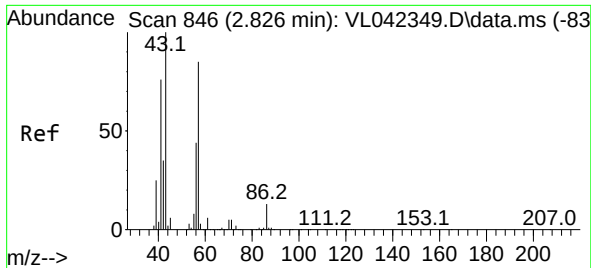


#20
Methylene Chloride
Concen: 1.379 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31



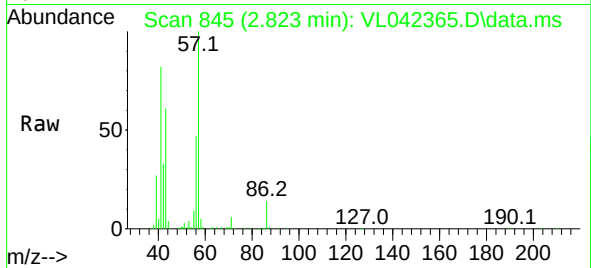
Tgt Ion: 84 Resp: 10711
Ion Ratio Lower Upper
84 100
49 138.9 111.6 167.4
51 38.0 35.1 52.7
86 52.3 48.9 73.3





#26
Hexane
Concen: 2.707 ppbv
RT: 2.823 min Scan# 846
Delta R.T. -0.003 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

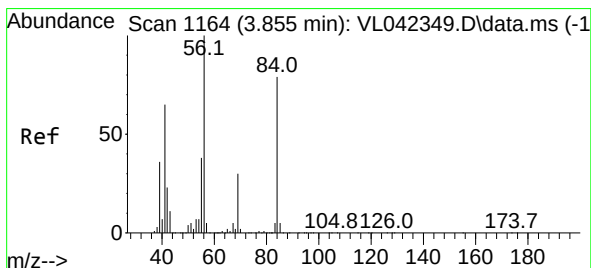
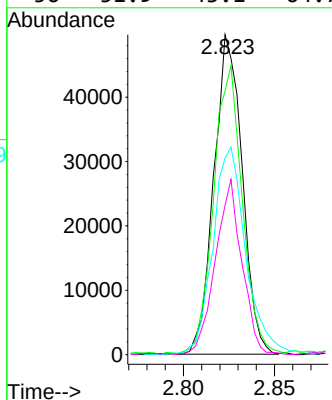
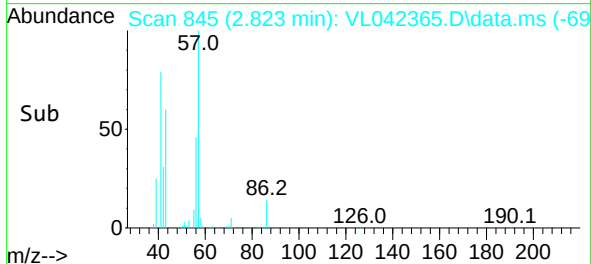
Instrument : MSVOA_L
Client Sample Id : IA-B1-2-3252025



Tgt Ion: 57 Resp: 53574
Ion Ratio Lower Upper
57 100
41 92.2 77.9 116.9
43 78.1 208.4 312.6
56 51.9 43.1 64.7

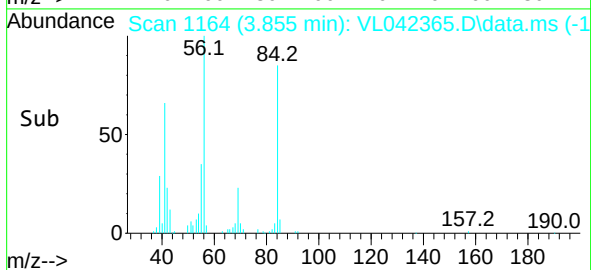
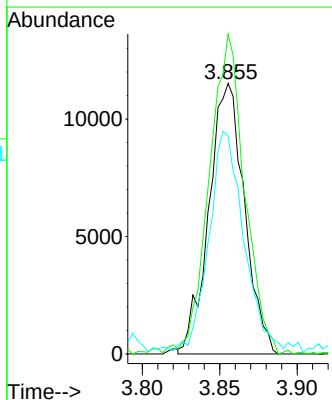
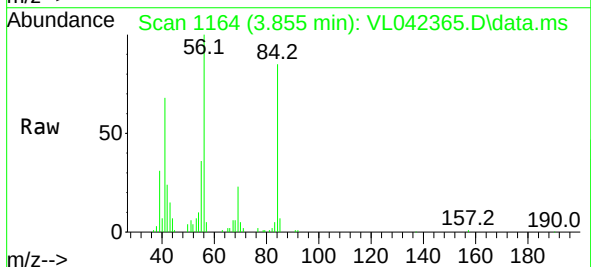
Manual Integrations
APPROVED

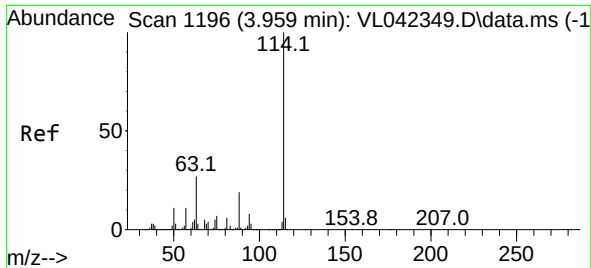
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#30
Cyclohexane
Concen: 1.145 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. 0.000 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

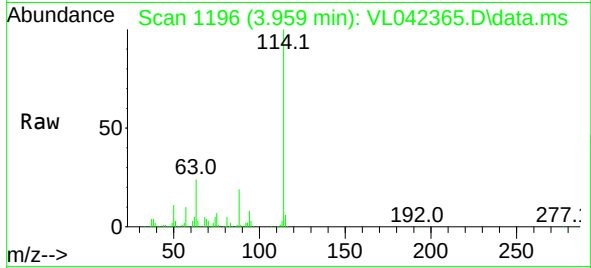
Tgt Ion: 84 Resp: 18328
Ion Ratio Lower Upper
84 100
56 119.0 101.0 151.4
41 83.7 67.4 101.0





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. 0.000 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

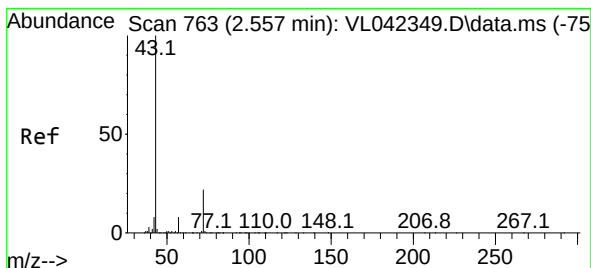
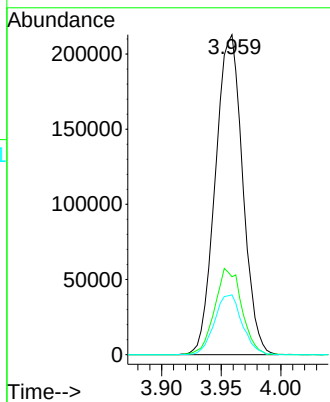
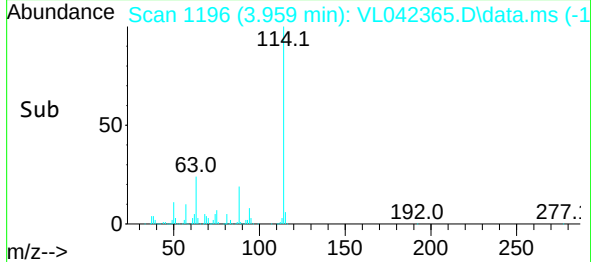
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025



Tgt Ion:114 Resp: 339124
Ion Ratio Lower Upper
114 100
63 26.8 21.8 32.6
88 18.9 15.5 23.3

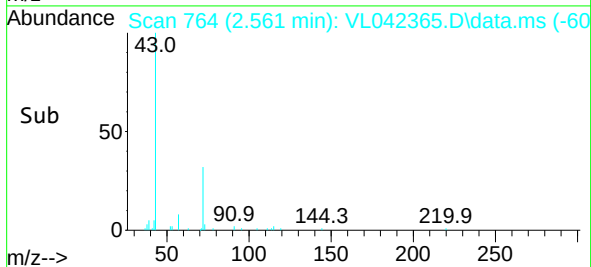
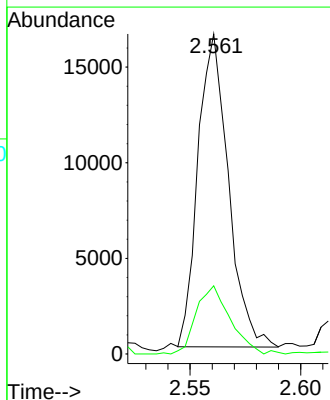
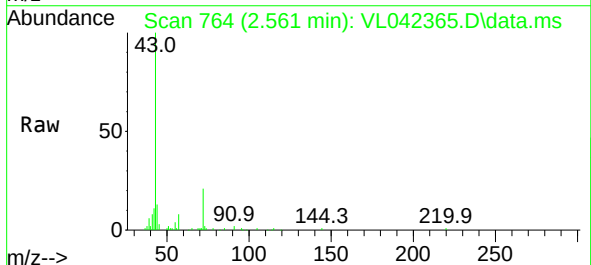
Manual Integrations
APPROVED

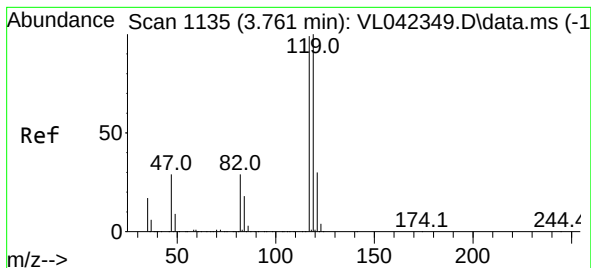
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#34
2-Butanone
Concen: 0.584 ppbv
RT: 2.561 min Scan# 764
Delta R.T. 0.004 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Tgt Ion: 43 Resp: 15661
Ion Ratio Lower Upper
43 100
72 25.5 18.2 27.2





#35

Carbon Tetrachloride

Concen: 0.074 ppbv m

RT: 3.768 min Scan# 1135

Delta R.T. 0.007 min

Lab File: VL042365.D

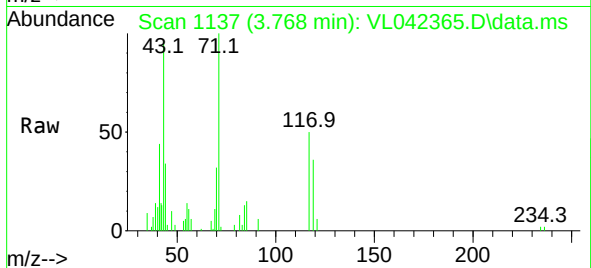
Acq: 17 Apr 2025 19:31

Instrument :

MSVOA_L

ClientSampleId :

LA-B1-2-3252025



Tgt Ion: 117 Resp: 2270

Ion Ratio Lower Upper

117 100

119 70.9 80.5 120.7

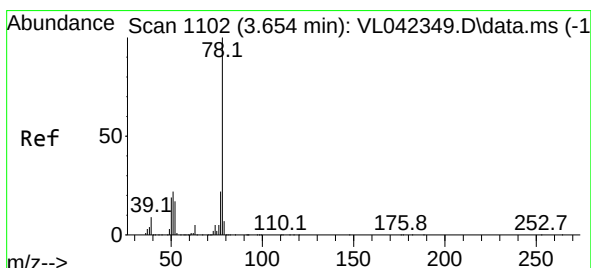
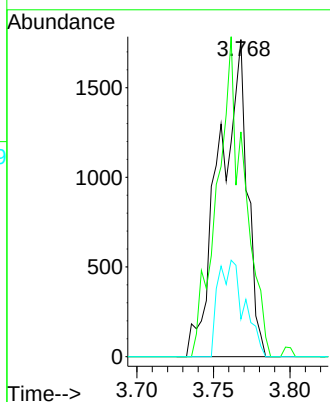
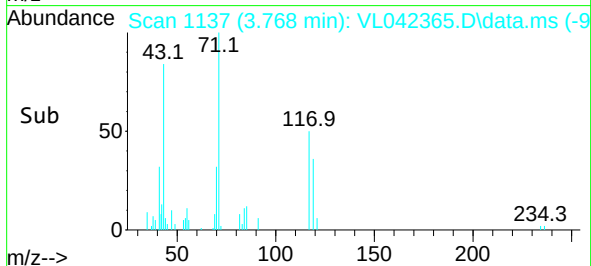
121 11.8 24.2 36.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#36

Benzene

Concen: 0.515 ppbv m

RT: 3.655 min Scan# 1102

Delta R.T. 0.000 min

Lab File: VL042365.D

Acq: 17 Apr 2025 19:31

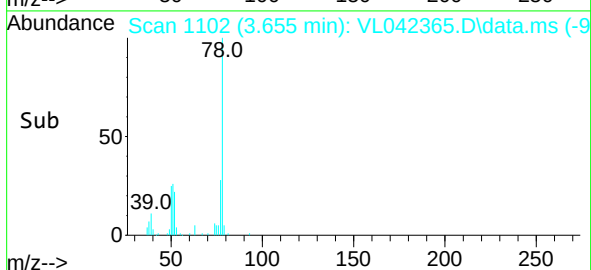
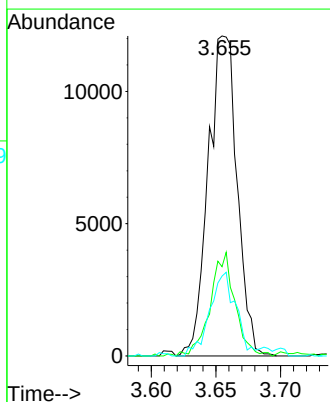
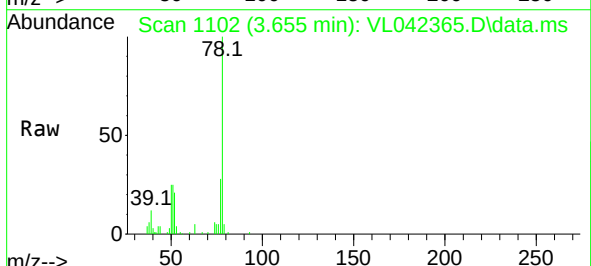
Tgt Ion: 78 Resp: 18848

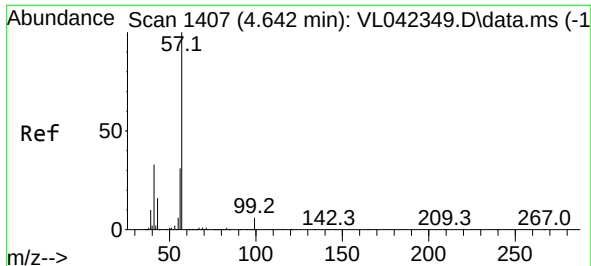
Ion Ratio Lower Upper

78 100

77 27.9 17.4 26.0#

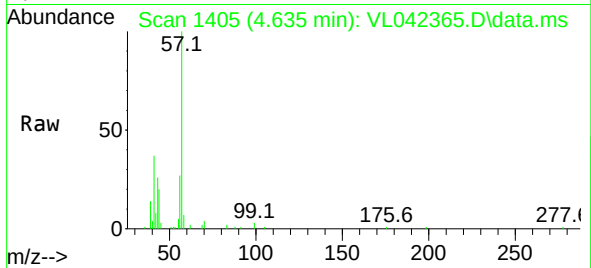
50 25.0 15.5 23.3#





#44
2,2,4-Trimethylpentane
Concen: 0.224 ppbv m
RT: 4.635 min Scan# 1407
Delta R.T. -0.006 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

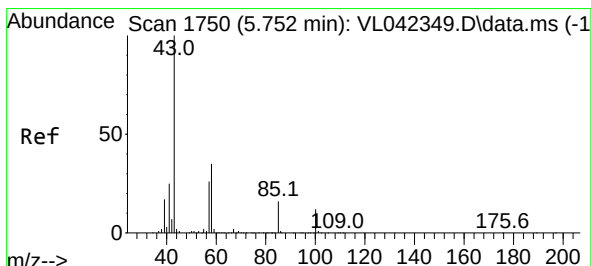
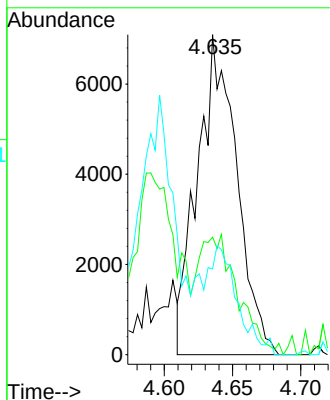
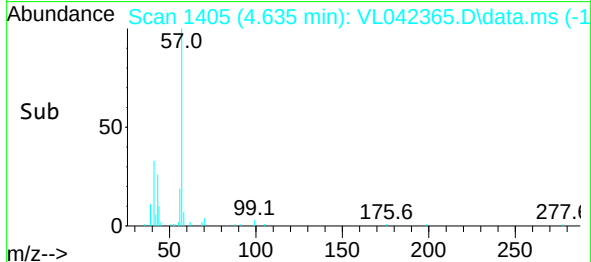
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025



Tgt Ion: 57 Resp: 14120
Ion Ratio Lower Upper
57 100
41 38.1 27.2 40.8
56 31.5 25.7 38.5

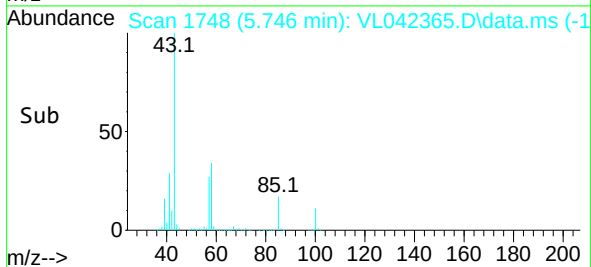
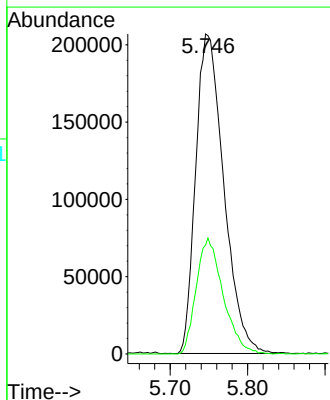
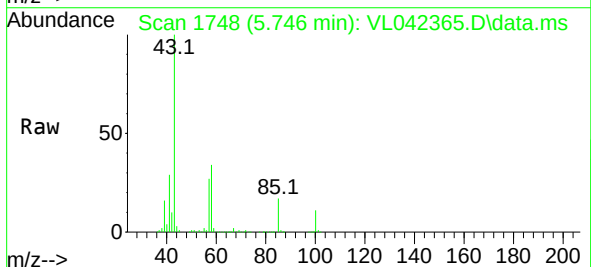
Manual Integrations
APPROVED

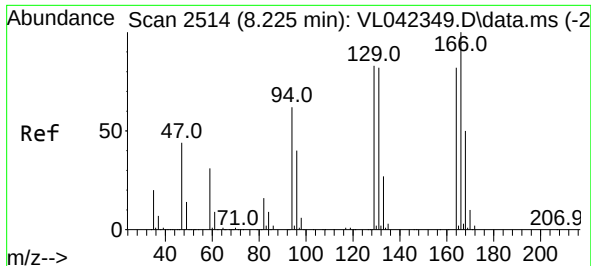
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#50
4-Methyl-2-Pentanone
Concen: 11.689 ppbv
RT: 5.746 min Scan# 1748
Delta R.T. -0.006 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

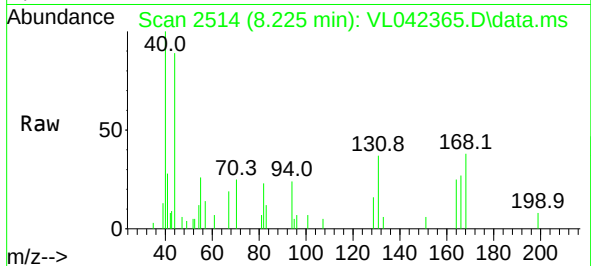
Tgt Ion: 43 Resp: 520966
Ion Ratio Lower Upper
43 100
58 34.7 28.6 43.0





#52
Tetrachloroethene
Concen: 0.033 ppbv m
RT: 8.225 min Scan# 2114
Delta R.T. 0.000 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

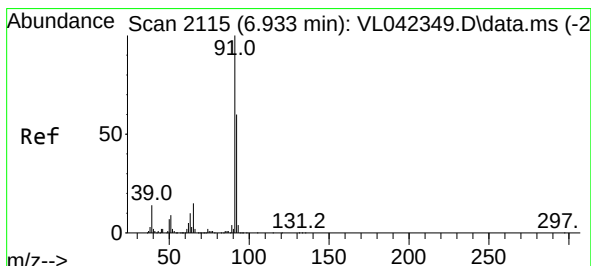
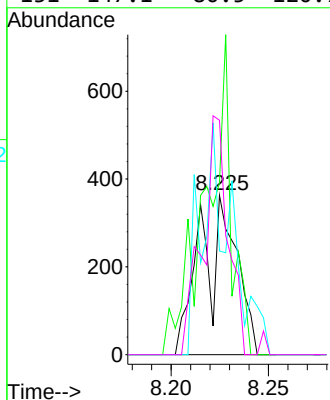
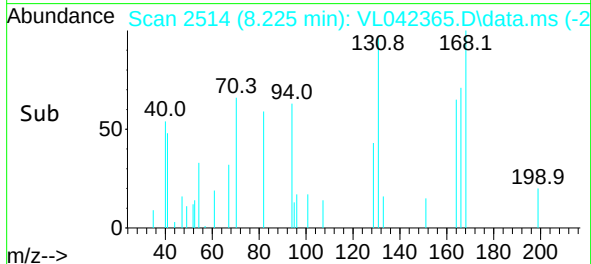
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025



Tgt Ion:164 Resp: 470
Ion Ratio Lower Upper
164 100
166 108.0 98.2 147.2
129 65.0 81.8 122.8
131 147.1 80.5 120.7#

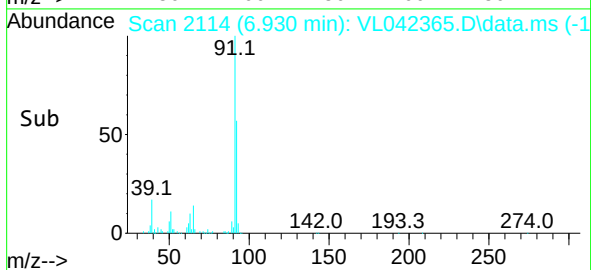
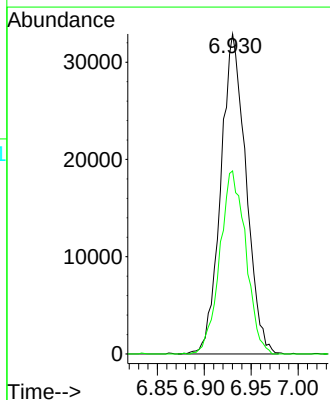
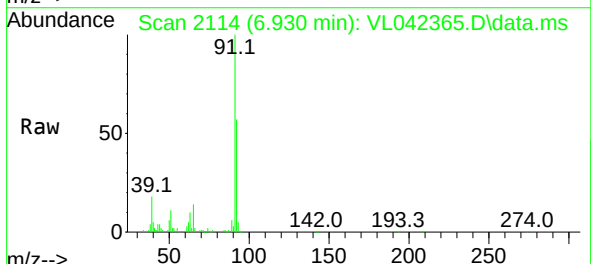
Manual Integrations
APPROVED

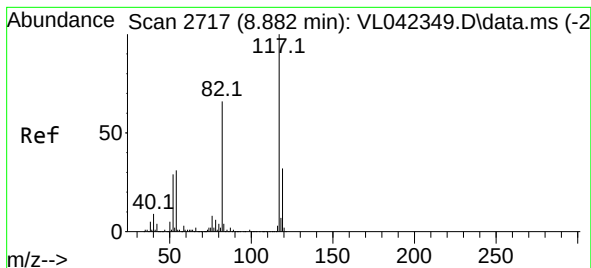
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#53
Toluene
Concen: 1.398 ppbv
RT: 6.930 min Scan# 2114
Delta R.T. -0.003 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Tgt Ion: 91 Resp: 61358
Ion Ratio Lower Upper
91 100
92 58.9 48.2 72.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.879 min Scan# 2717

Delta R.T. -0.003 min

Lab File: VL042365.D

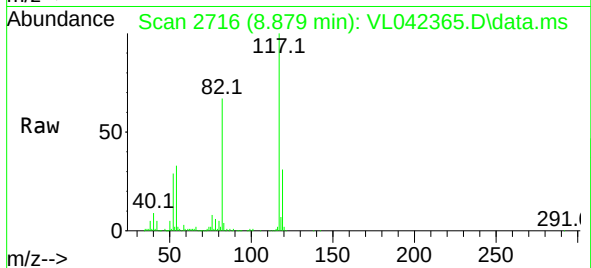
Acq: 17 Apr 2025 19:31

Instrument :

MSVOA_L

ClientSampleId :

IA-B1-2-3252025



Tgt Ion:117 Resp: 30244

Ion Ratio Lower Upper

117 100

82 67.9 57.8 86.6

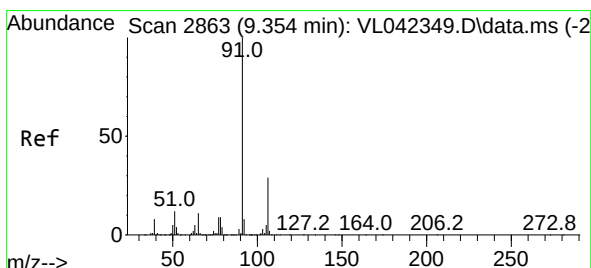
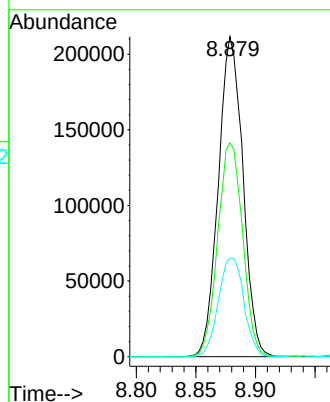
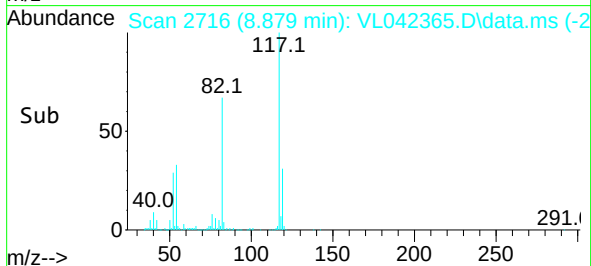
119 32.1 25.2 37.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#58

Ethyl Benzene

Concen: 0.951 ppbv

RT: 9.354 min Scan# 2863

Delta R.T. 0.000 min

Lab File: VL042365.D

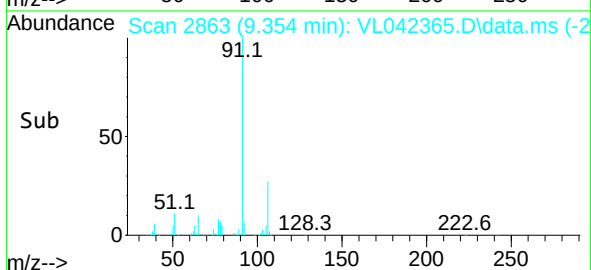
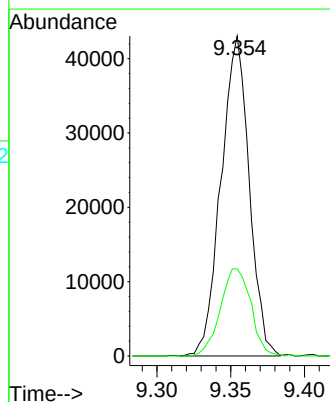
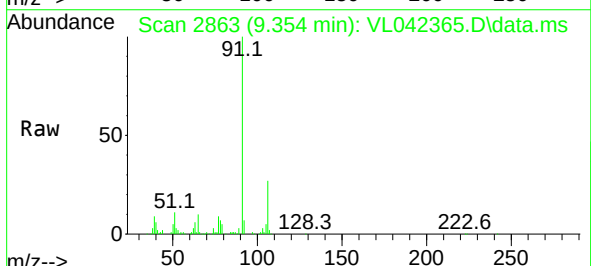
Acq: 17 Apr 2025 19:31

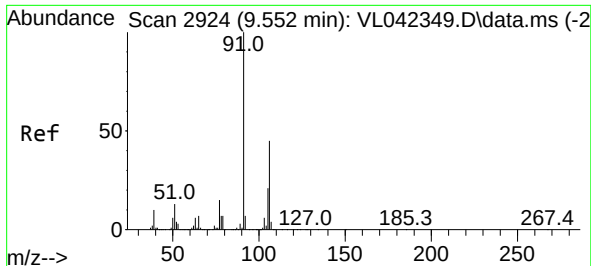
Tgt Ion: 91 Resp: 56996

Ion Ratio Lower Upper

91 100

106 27.2 23.0 34.4





#59

m/p-Xylene

Concen: 5.949 ppbv

RT: 9.529 min Scan# 2917

Delta R.T. -0.022 min

Lab File: VL042365.D

Acq: 17 Apr 2025 19:31

Instrument :

MSVOA_L

ClientSampleId :

IA-B1-2-3252025

Tgt Ion: 91 Resp: 287150

Ion Ratio Lower Upper

91 100

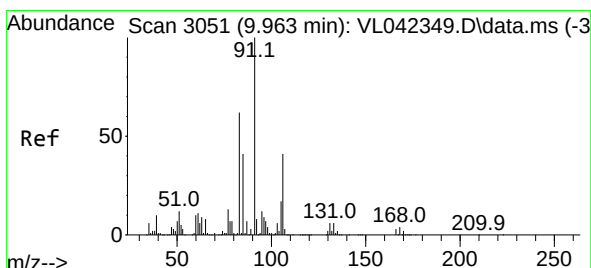
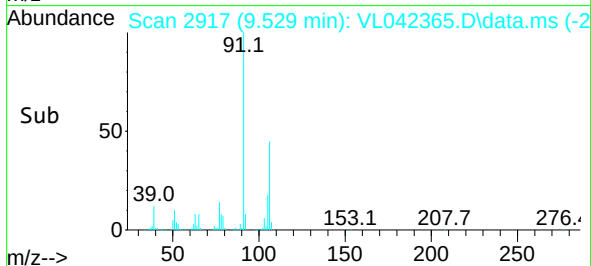
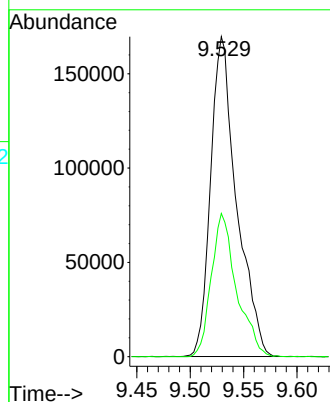
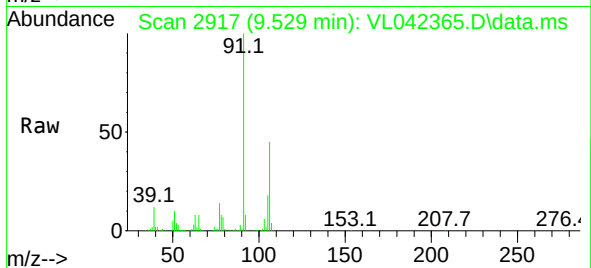
106 43.5 35.4 53.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#60

o-Xylene

Concen: 2.264 ppbv

RT: 9.960 min Scan# 3050

Delta R.T. -0.003 min

Lab File: VL042365.D

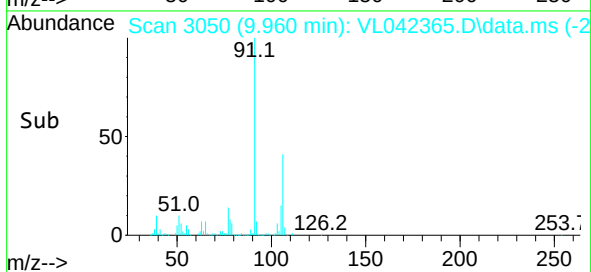
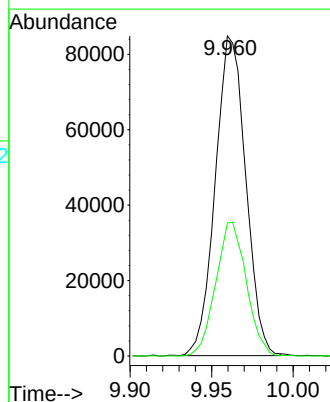
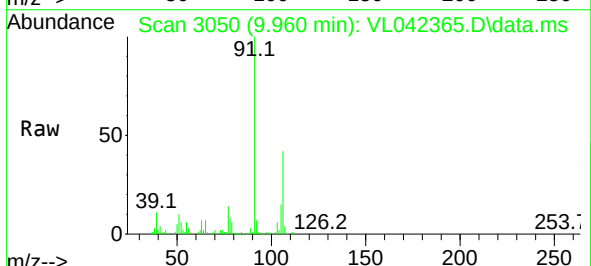
Acq: 17 Apr 2025 19:31

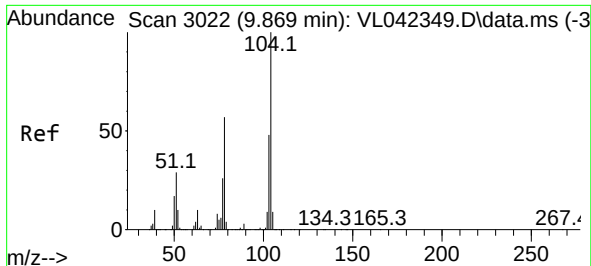
Tgt Ion: 91 Resp: 110047

Ion Ratio Lower Upper

91 100

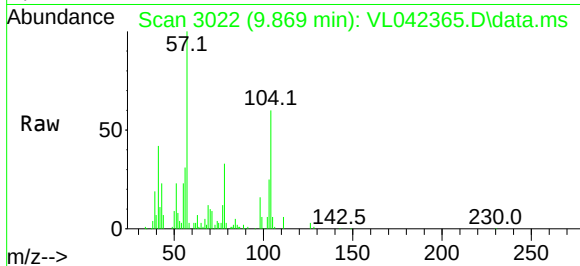
106 42.0 21.1 63.4





#61
Styrene
Concen: 0.465 ppbv
RT: 9.869 min Scan# 3022
Delta R.T. 0.000 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

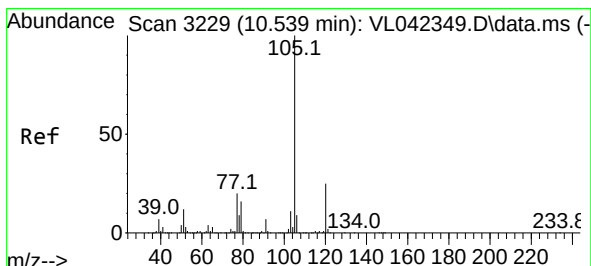
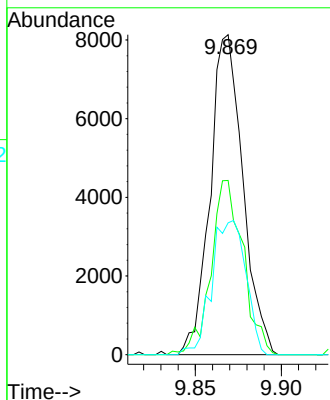
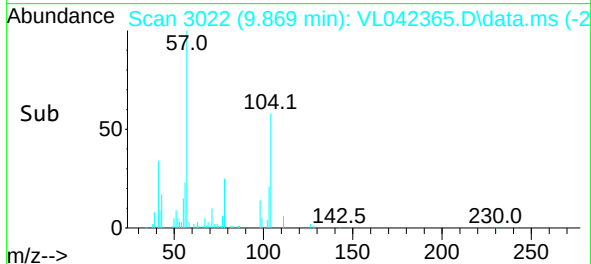
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025



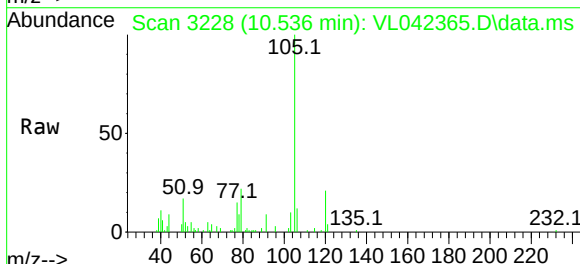
Tgt Ion:104 Resp: 10782
Ion Ratio Lower Upper
104 100
78 53.3 44.6 66.8
103 44.0 37.4 56.0

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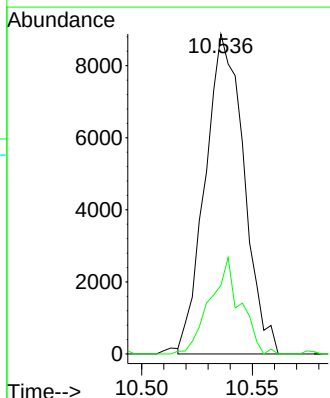
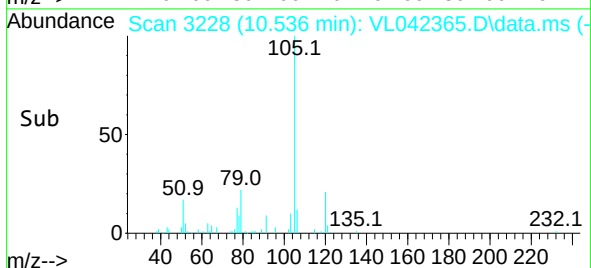
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

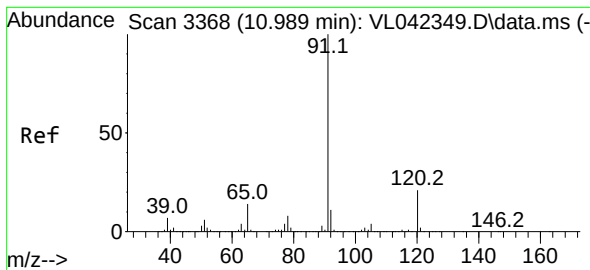


#62
Isopropylbenzene
Concen: 0.151 ppbv
RT: 10.536 min Scan# 3228
Delta R.T. -0.003 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31



Tgt Ion:105 Resp: 10773
Ion Ratio Lower Upper
105 100
120 23.9 19.8 29.8





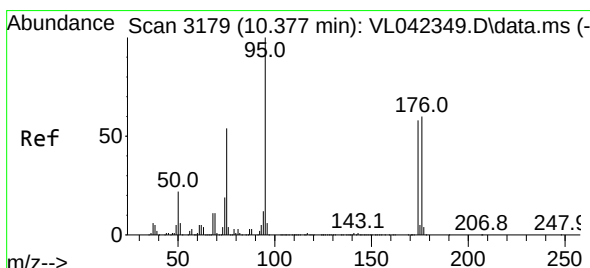
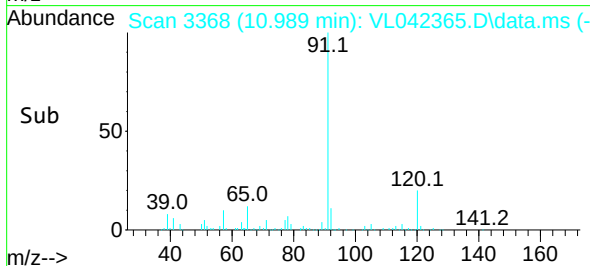
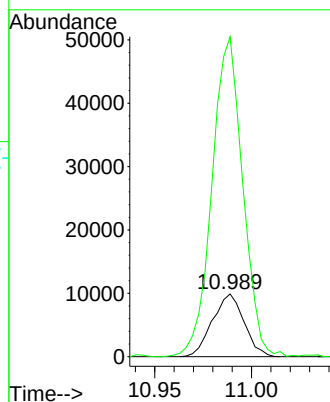
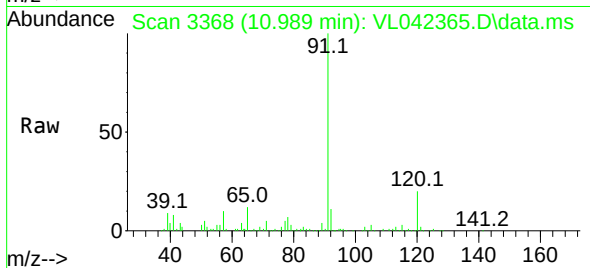
#64
n-propylbenzene
Concen: 0.625 ppbv
RT: 10.989 min Scan# 311
Delta R.T. 0.000 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

Tgt Ion:120 Resp: 11220
Ion Ratio Lower Upper
120 100
91 501.5 392.4 588.6

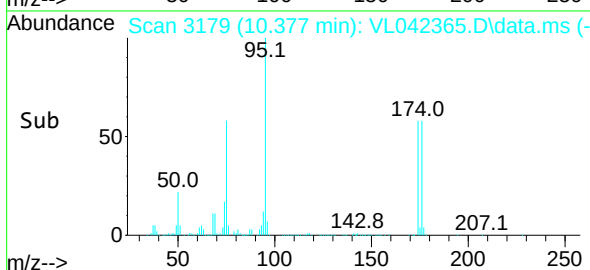
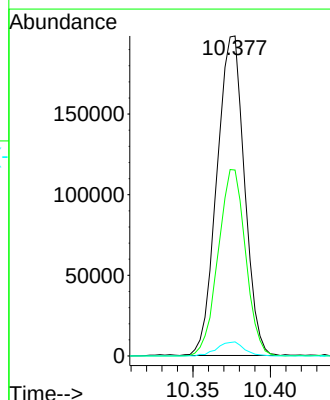
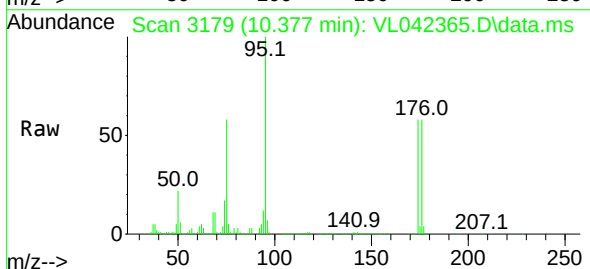
Manual Integrations
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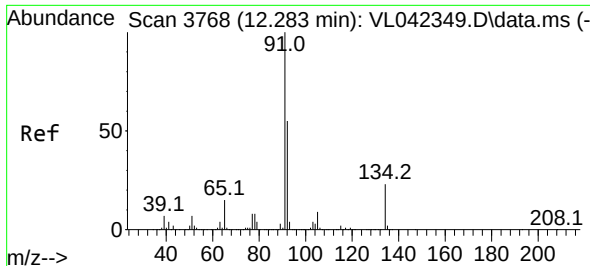
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.863 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.000 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Tgt Ion: 95 Resp: 245115
Ion Ratio Lower Upper
95 100
174 58.1 48.5 72.7
175 4.3 3.7 5.5





#70

n-Butylbenzene

Concen: 0.536 ppbv m

RT: 12.287 min Scan# 3768

Delta R.T. 0.004 min

Lab File: VL042365.D

Acq: 17 Apr 2025 19:31

Instrument :

MSVOA_L

ClientSampleId :

IA-B1-2-3252025

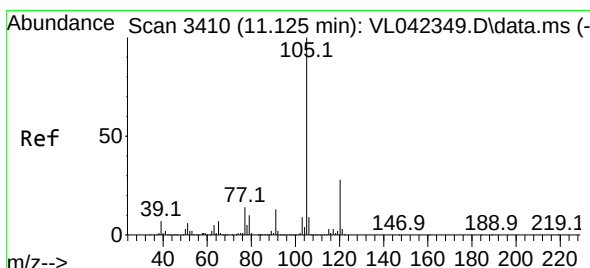
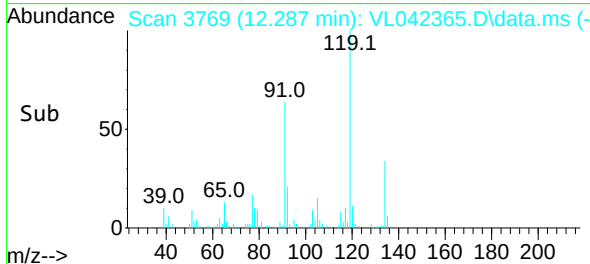
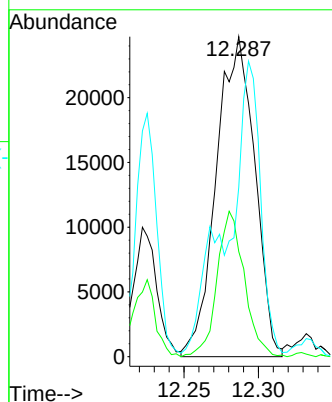
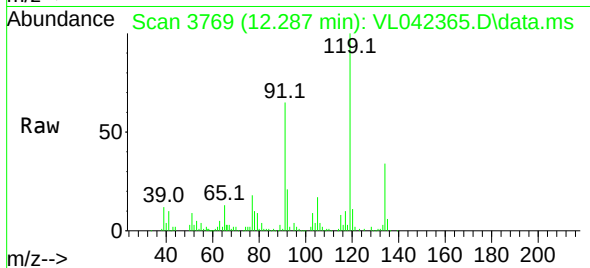
Tgt Ion: 91 Resp: 44270

Ion	Ratio	Lower	Upper
91	100		
92	31.5	44.2	66.4
134	0.0	18.2	27.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#72

4-Ethyltoluene

Concen: 1.306 ppbv

RT: 11.125 min Scan# 3410

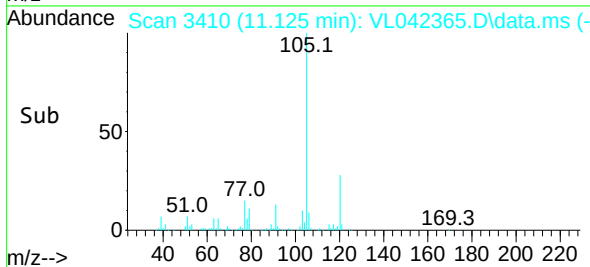
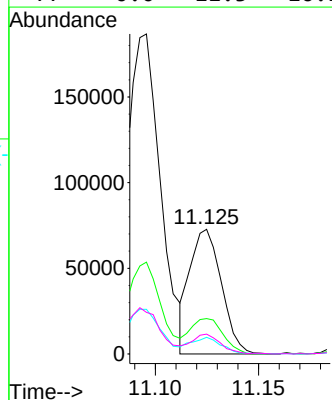
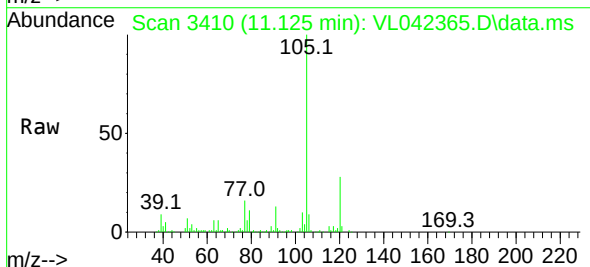
Delta R.T. 0.000 min

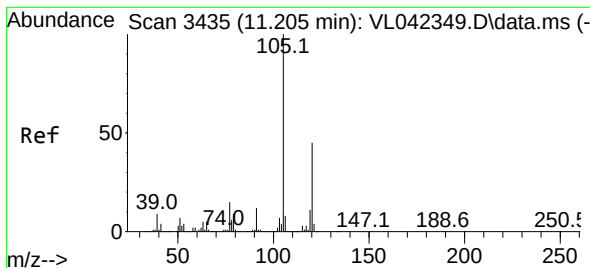
Lab File: VL042365.D

Acq: 17 Apr 2025 19:31

Tgt Ion:105 Resp: 77634

Ion	Ratio	Lower	Upper
105	100		
120	0.0	23.2	34.8
91	0.0	10.4	15.6
77	0.0	11.3	16.9





#73

1,3,5-Trimethylbenzene

Concen: 1.764 ppbv

RT: 11.203 min Scan# 3435

Delta R.T. -0.003 min

Lab File: VL042365.D

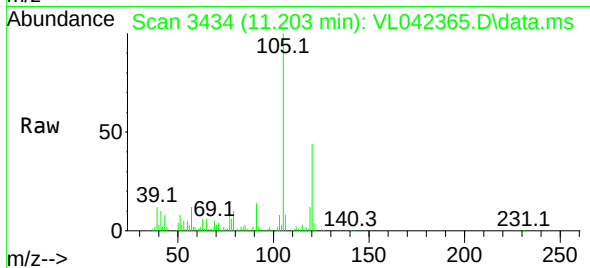
Acq: 17 Apr 2025 19:31

Instrument :

MSVOA_L

ClientSampleId :

IA-B1-2-3252025



Tgt Ion:105 Resp: 92540

Ion Ratio Lower Upper

105 100

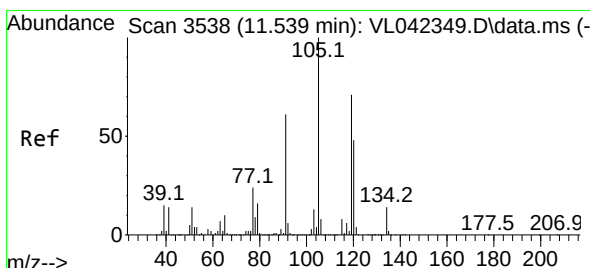
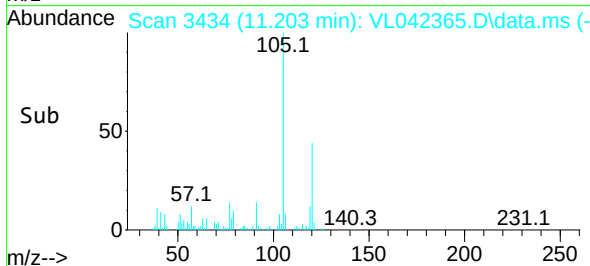
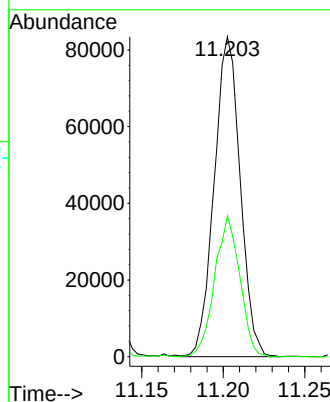
120 43.9 35.6 53.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#74

1,2,4-Trimethylbenzene

Concen: 5.391 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. -0.003 min

Lab File: VL042365.D

Acq: 17 Apr 2025 19:31

Tgt Ion:105 Resp: 330358

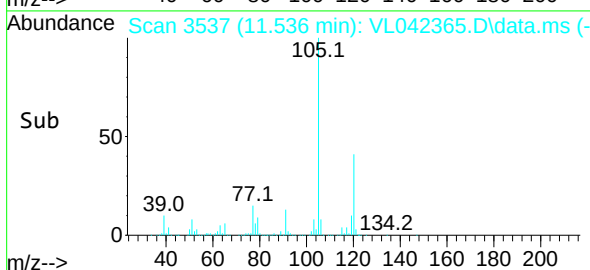
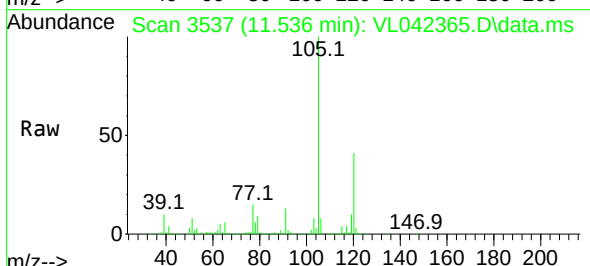
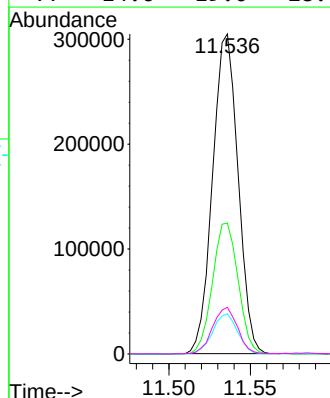
Ion Ratio Lower Upper

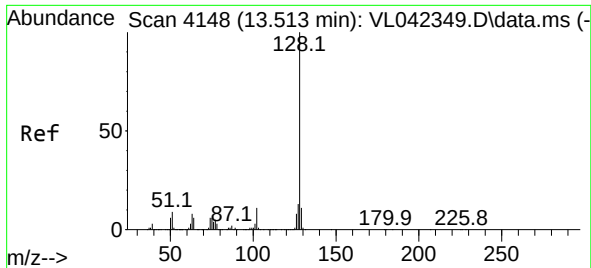
105 100

120 40.9 38.1 57.1

91 12.5 48.8 73.2#

77 14.6 19.0 28.4#





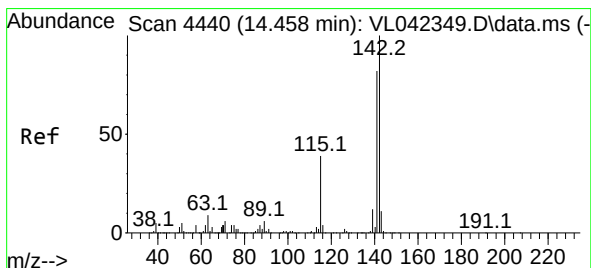
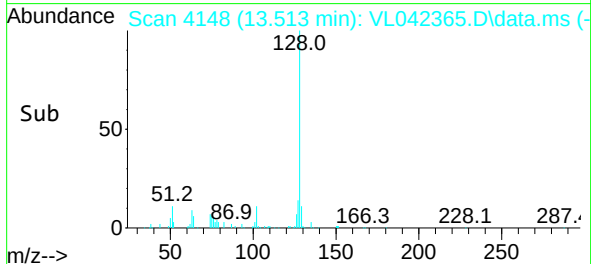
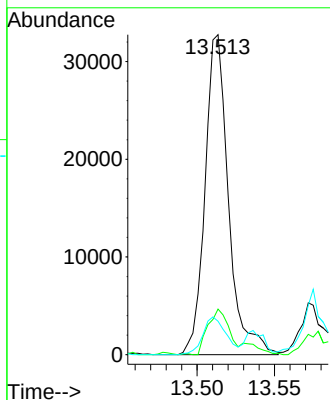
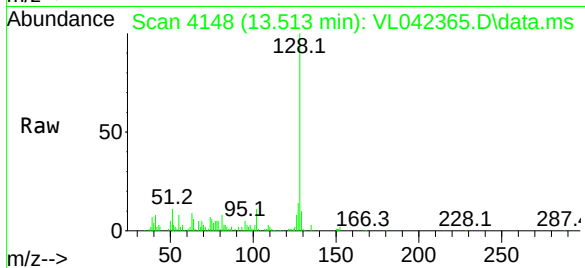
#79
Naphthalene
Concen: 0.472 ppbv
RT: 13.513 min Scan# 4148
Delta R.T. 0.000 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

Tgt Ion:128 Resp: 34564
Ion Ratio Lower Upper
128 100
127 14.2 10.6 15.8
129 10.4 8.6 12.8

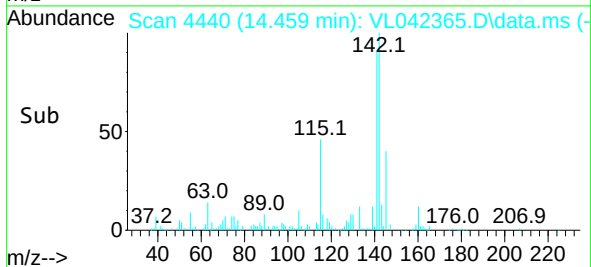
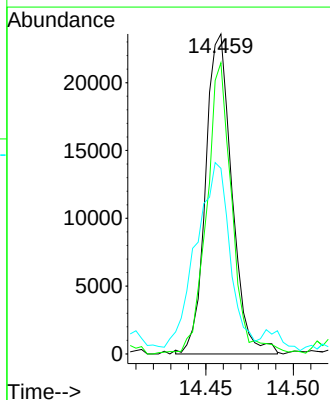
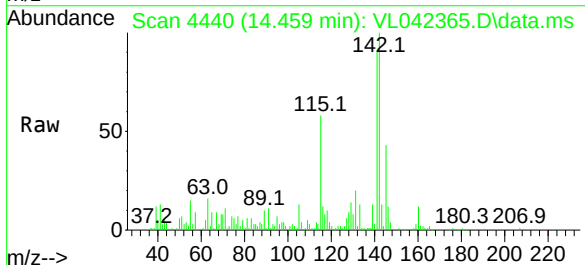
Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#80
Naphthalene,2-methyl-
Concen: 0.590 ppbv m
RT: 14.459 min Scan# 4440
Delta R.T. 0.000 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Tgt Ion:142 Resp: 24628
Ion Ratio Lower Upper
142 100
141 49.4 66.8 100.2#
115 28.5 33.4 50.2#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042365.D
 Acq On : 17 Apr 2025 19:31
 Operator : SY/MD
 Sample : Q1668-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B1-2-3252025

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 3

Min Area: 3 % of largest Peak

Start Thrs: 0.001

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

Signal : TIC: VL042365.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.431	410	415	420	rBV	4141908	4695063	100.00%	16.122%
2	1.557	449	454	460	rBV	281816	152999	3.26%	0.525%
3	1.619	470	473	477	rVB	103865	55858	1.19%	0.192%
4	1.719	500	504	509	rBV	596794	352833	7.51%	1.212%
5	1.842	535	542	547	rVB2	250749	255734	5.45%	0.878%
6	1.884	549	555	560	rBV	92879	75702	1.61%	0.260%
7	1.962	575	579	584	rVB	116793	74687	1.59%	0.256%
8	2.473	732	737	744	rVB2	96982	95814	2.04%	0.329%
9	2.622	777	783	792	rVB2	64381	70818	1.51%	0.243%
10	2.787	826	834	840	rBV	435768	454320	9.68%	1.560%
11	2.826	840	846	859	rVB2	211668	240759	5.13%	0.827%
12	3.227	962	970	980	rVB2	54239	74605	1.59%	0.256%
13	3.855	1153	1164	1175	rBV3	61345	99575	2.12%	0.342%
14	3.956	1182	1195	1209	rBV2	554957	910647	19.40%	3.127%
15	4.050	1212	1224	1233	rVV2	117128	221708	4.72%	0.761%
16	4.095	1233	1238	1249	rVB4	50648	78154	1.66%	0.268%
17	4.266	1276	1291	1304	rVB3	144740	277896	5.92%	0.954%
18	4.522	1356	1370	1376	rBV9	21328	48449	1.03%	0.166%
19	4.978	1497	1511	1525	rVB5	67437	146959	3.13%	0.505%
20	5.665	1701	1723	1737	rBV4	50324	131187	2.79%	0.450%
21	5.746	1737	1748	1771	rBV3	556848	1392302	29.65%	4.781%
22	6.930	2100	2114	2133	rBV2	90218	183785	3.91%	0.631%
23	7.691	2336	2349	2361	rVB6	40493	82301	1.75%	0.283%
24	8.302	2519	2538	2554	rVB8	45108	125963	2.68%	0.433%
25	8.879	2701	2716	2727	rBV	755041	1135538	24.19%	3.899%
26	8.979	2740	2747	2762	rVB9	41756	83444	1.78%	0.287%
27	9.147	2790	2799	2810	rVB4	44198	66685	1.42%	0.229%
28	9.354	2852	2863	2876	rBV	103726	168110	3.58%	0.577%
29	9.529	2907	2917	2935	rVB3	490845	854946	18.21%	2.936%
30	9.630	2940	2948	2964	rVV	127446	214582	4.57%	0.737%
31	9.730	2964	2979	2990	rVB6	87260	206864	4.41%	0.710%
32	9.859	3004	3019	3029	rBV4	113741	189758	4.04%	0.652%
33	9.960	3037	3050	3072	rVB2	253251	453620	9.66%	1.558%
34	10.099	3087	3093	3101	rVB4	50465	72865	1.55%	0.250%
35	10.374	3156	3178	3188	rBV2	942848	1390355	29.61%	4.774%
36	10.429	3188	3195	3203	rVB2	46612	60199	1.28%	0.207%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042365.D
Acq On : 17 Apr 2025 19:31
Operator : SY/MD
Sample : Q1668-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Sampling : 3

Start Thrs: 0.001

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

37	10.769	3288	3300	3304	rBV4	46522	70979	1.51%	0.244%
38	10.853	3321	3326	3333	rVB7	56426	67266	1.43%	0.231%
39	10.898	3333	3340	3352	rVB2	62822	83032	1.77%	0.285%
40	10.989	3352	3368	3381	rBV2	124238	212645	4.53%	0.730%
41	11.096	3393	3401	3406	rBV	490017	564207	12.02%	1.937%
42	11.125	3406	3410	3421	rVB	204076	229248	4.88%	0.787%
43	11.203	3421	3434	3442	rBV2	303503	364339	7.76%	1.251%
44	11.254	3442	3450	3453	rBV4	62581	69236	1.47%	0.238%
45	11.280	3453	3458	3463	rVV2	99116	121422	2.59%	0.417%
46	11.313	3463	3468	3471	rVV3	118355	120415	2.56%	0.413%
47	11.335	3471	3475	3488	rVB	171209	209341	4.46%	0.719%
48	11.400	3488	3495	3501	rBV2	131892	142005	3.02%	0.488%
49	11.536	3528	3537	3547	rBV	878398	1010184	21.52%	3.469%
50	11.588	3547	3553	3565	rVB6	51057	85776	1.83%	0.295%
51	11.724	3584	3595	3597	rBV4	51879	71154	1.52%	0.244%
52	11.753	3597	3604	3617	rVB4	302075	425736	9.07%	1.462%
53	11.879	3636	3643	3650	rVB2	273356	286710	6.11%	0.985%
54	12.018	3674	3686	3690	rBV	169430	210264	4.48%	0.722%
55	12.038	3690	3692	3703	rVB4	86129	86400	1.84%	0.297%
56	12.096	3703	3710	3716	rBV5	46264	56797	1.21%	0.195%
57	12.170	3726	3733	3736	rBV4	58552	63417	1.35%	0.218%
58	12.193	3736	3740	3744	rVV2	82862	82599	1.76%	0.284%
59	12.222	3744	3749	3757	rVV	245543	260762	5.55%	0.895%
60	12.271	3757	3764	3767	rVV3	99326	120716	2.57%	0.415%
61	12.293	3767	3771	3777	rVB2	206331	209849	4.47%	0.721%
62	12.403	3794	3805	3811	rBV4	169382	188598	4.02%	0.648%
63	12.439	3811	3816	3821	rVB3	97284	96378	2.05%	0.331%
64	12.475	3821	3827	3831	rBV3	107338	105891	2.26%	0.364%
65	12.504	3831	3836	3839	rVV2	179220	185747	3.96%	0.638%
66	12.523	3839	3842	3845	rVV2	138934	136524	2.91%	0.469%
67	12.542	3845	3848	3855	rVB	171800	160806	3.43%	0.552%
68	12.588	3855	3862	3872	rVB2	280321	392865	8.37%	1.349%
69	12.669	3872	3887	3893	rBV6	104901	152580	3.25%	0.524%
70	12.772	3913	3919	3922	rBV5	42228	48149	1.03%	0.165%
71	12.827	3930	3936	3942	rVB	343971	331834	7.07%	1.139%
72	12.860	3942	3946	3955	rVB7	51185	64682	1.38%	0.222%
73	12.918	3955	3964	3969	rBV2	157612	182379	3.88%	0.626%
74	12.950	3969	3974	3983	rVB2	211957	209676	4.47%	0.720%
75	13.002	3983	3990	4000	rVB5	114499	169289	3.61%	0.581%
76	13.102	4015	4021	4024	rBV3	84600	96977	2.07%	0.333%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042365.D
 Acq On : 17 Apr 2025 19:31
 Operator : SY/MD
 Sample : Q1668-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B1-2-3252025

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 3

Min Area: 3 % of largest Peak

Start Thrs: 0.001

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

77	13.125	4024	4028	4035	rVB3	163603	168046	3.58%	0.577%
78	13.164	4035	4040	4045	rBV5	113495	118721	2.53%	0.408%
79	13.190	4045	4048	4053	rVB5	71019	59158	1.26%	0.203%
80	13.225	4053	4059	4065	rBV	237940	295096	6.29%	1.013%
81	13.251	4065	4067	4074	rVB2	104393	104079	2.22%	0.357%
82	13.293	4074	4080	4085	rBV5	50136	61846	1.32%	0.212%
83	13.329	4085	4091	4097	rBV5	254292	307548	6.55%	1.056%
84	13.387	4102	4109	4114	rVB4	174138	203101	4.33%	0.697%
85	13.423	4114	4120	4124	rBV3	114712	120567	2.57%	0.414%
86	13.449	4124	4128	4134	rVB3	57445	56234	1.20%	0.193%
87	13.484	4134	4139	4144	rBV	66778	53202	1.13%	0.183%
88	13.513	4144	4148	4151	rBV	62803	55129	1.17%	0.189%
89	13.536	4151	4155	4160	rVB4	69531	64336	1.37%	0.221%
90	13.575	4160	4167	4170	rBV2	115719	126828	2.70%	0.436%
91	13.591	4170	4172	4177	rVB3	81718	67030	1.43%	0.230%
92	13.659	4177	4193	4204	rVB5	183583	351962	7.50%	1.209%
93	13.724	4204	4213	4219	rBV	379415	388375	8.27%	1.334%
94	13.750	4219	4221	4231	rVB7	56914	66928	1.43%	0.230%
95	13.827	4231	4245	4251	rBV2	138116	196648	4.19%	0.675%
96	13.860	4251	4255	4259	rVV	88629	83118	1.77%	0.285%
97	13.895	4259	4266	4273	rVB5	82075	112018	2.39%	0.385%
98	13.980	4281	4292	4297	rBV8	78468	104677	2.23%	0.359%
99	14.028	4297	4307	4311	rBV10	56209	74863	1.59%	0.257%
100	14.106	4318	4331	4337	rBV4	89741	152823	3.25%	0.525%
101	14.171	4349	4351	4360	rVB9	46307	49433	1.05%	0.170%
102	14.232	4360	4370	4386	rBV6	235507	411559	8.77%	1.413%
103	14.303	4386	4392	4397	rVV5	83864	87475	1.86%	0.300%
104	14.339	4397	4403	4410	rVV4	124673	146617	3.12%	0.503%
105	14.374	4410	4414	4420	rVB6	52669	51572	1.10%	0.177%
106	14.449	4428	4437	4444	rBV4	154343	239826	5.11%	0.824%
107	14.488	4444	4449	4453	rVV7	50370	54463	1.16%	0.187%
108	14.520	4453	4459	4472	rVB	341906	386516	8.23%	1.327%
109	14.585	4472	4479	4484	rBV3	67710	77439	1.65%	0.266%
110	14.662	4495	4503	4513	rBV3	182218	276746	5.89%	0.950%
111	14.789	4534	4542	4551	rVB6	65436	107127	2.28%	0.368%
112	14.896	4568	4575	4580	rVB5	53476	66153	1.41%	0.227%
113	14.999	4599	4607	4612	rVB7	48418	47518	1.01%	0.163%
114	15.051	4618	4623	4634	rBV9	42816	73526	1.57%	0.252%
115	15.109	4634	4641	4649	rVB4	84907	111910	2.38%	0.384%
116	15.193	4661	4667	4671	rBV4	77632	75433	1.61%	0.259%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042365.D
Acq On : 17 Apr 2025 19:31
Operator : SY/MD
Sample : Q1668-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 3 Min Area: 3 % of largest Peak
Start Thrs: 0.001 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

117	15.242	4676	4682	4690	rVV2	232712	257399	5.48%	0.884%
118	15.284	4690	4695	4702	rVB10	41012	49510	1.05%	0.170%
119	15.472	4746	4753	4760	rVB10	31369	50014	1.07%	0.172%
120	15.582	4783	4787	4801	rVB10	80292	115772	2.47%	0.398%
121	15.795	4846	4853	4858	rBV10	48719	51623	1.10%	0.177%

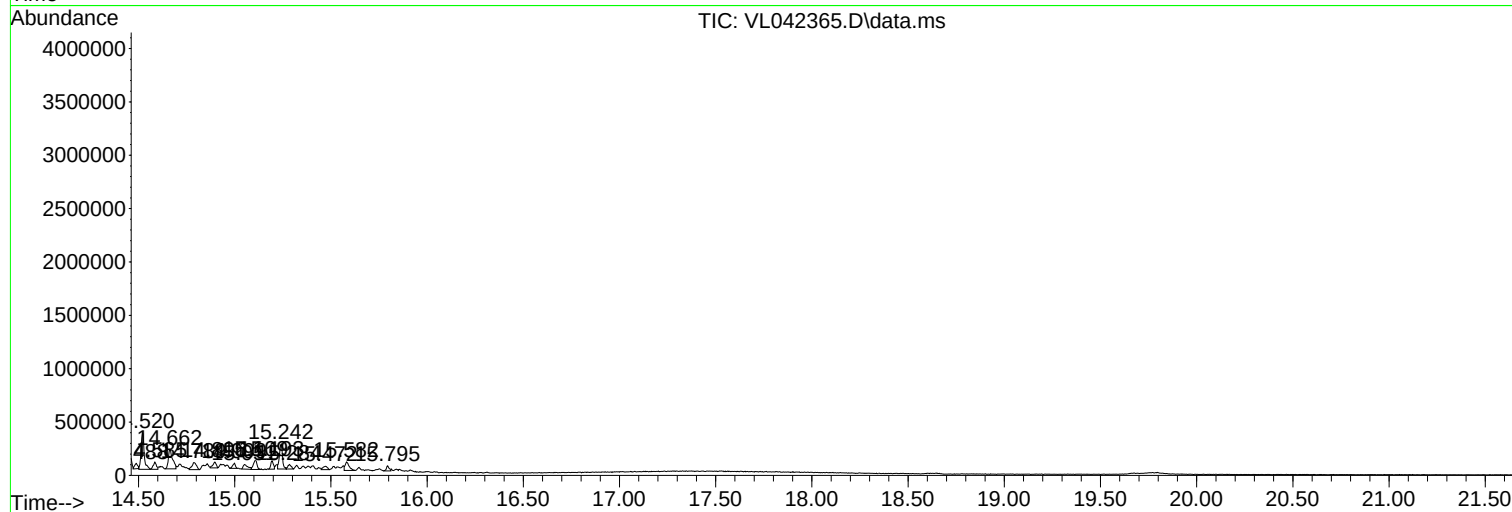
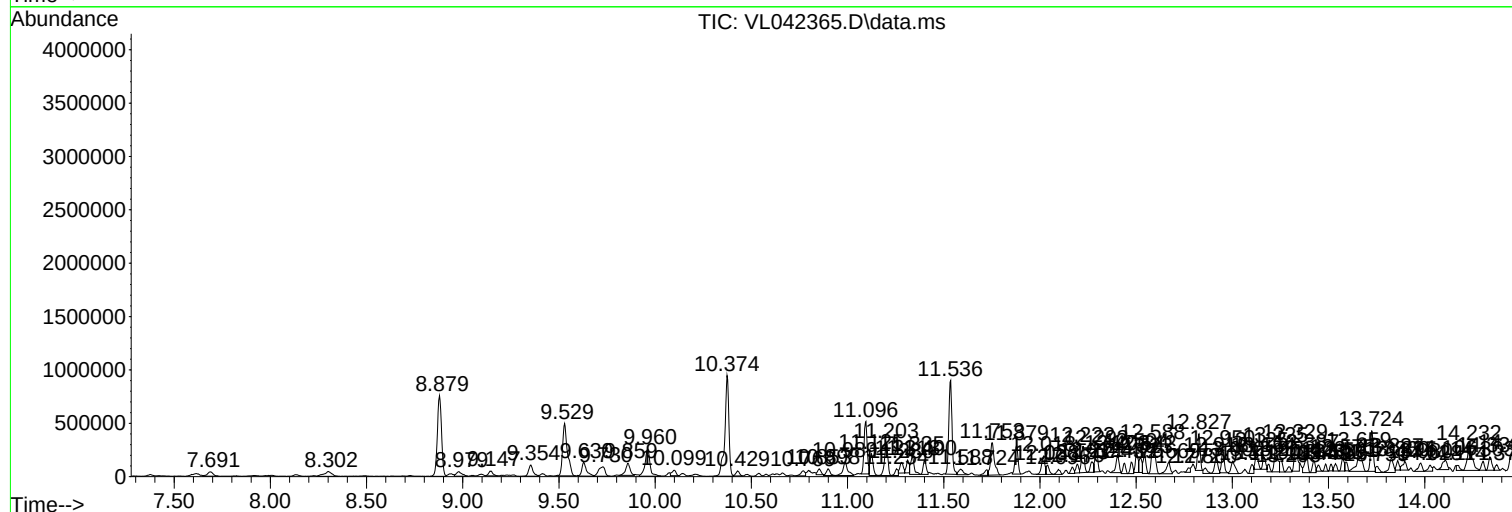
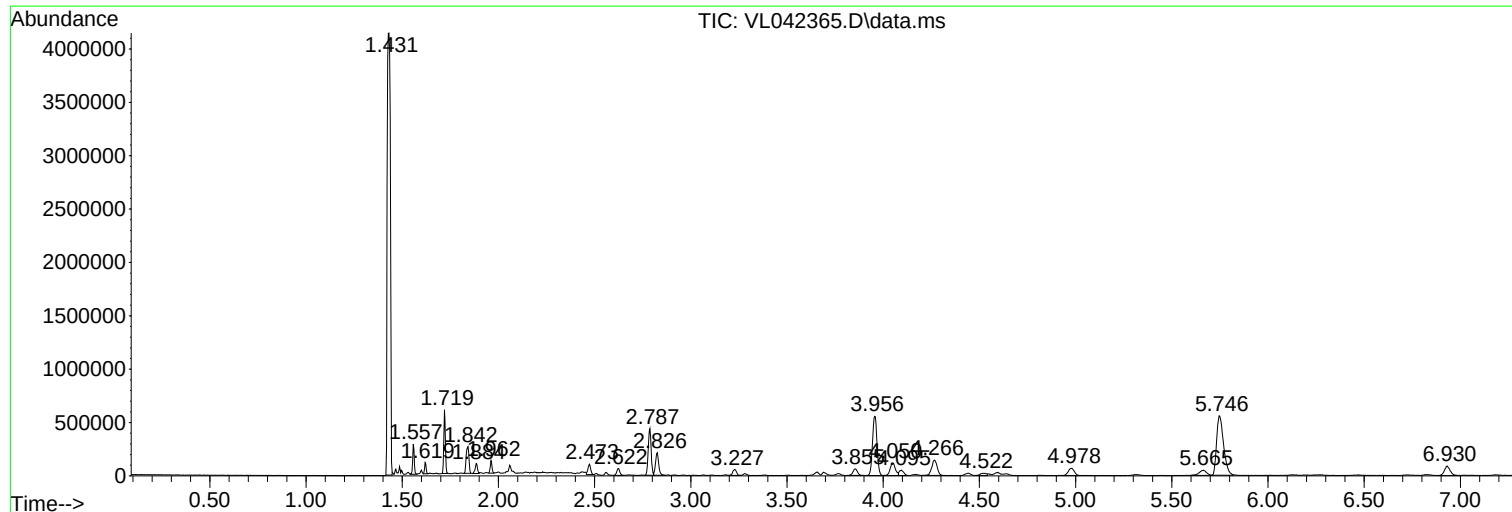
Sum of corrected areas: 29121922

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042365.D
Acq On : 17 Apr 2025 19:31
Operator : SY/MD
Sample : Q1668-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042365.D
Acq On : 17 Apr 2025 19:31
Operator : SY/MD
Sample : Q1668-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

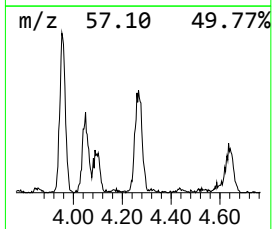
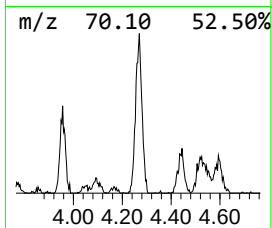
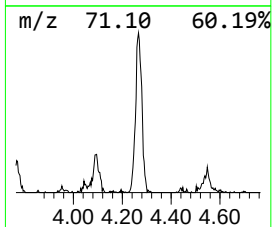
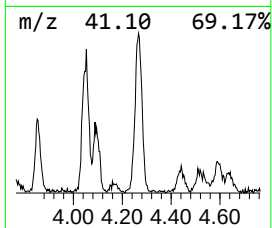
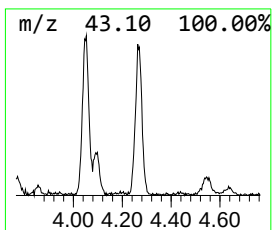
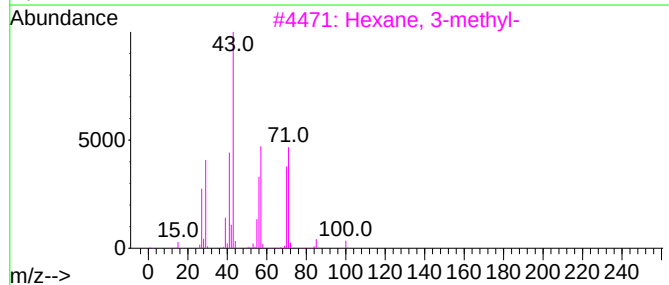
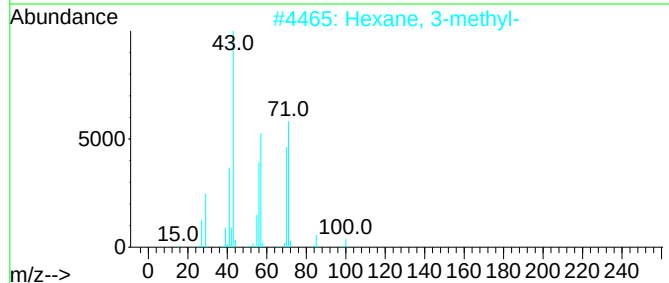
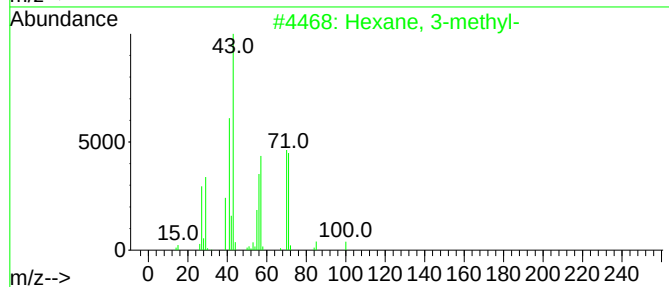
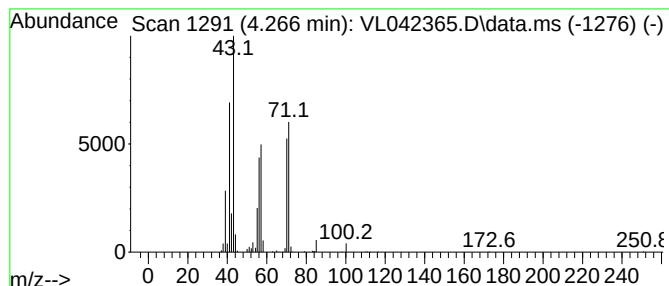
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 1 Hexane, 3-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.266	3.05 ppbv	277896	1,4-Difluorobenzene	3.959

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Hexane, 3-methyl-	100	C7H16	000589-34-4	91
2			Hexane, 3-methyl-	100	C7H16	000589-34-4	91
3			Hexane, 3-methyl-	100	C7H16	000589-34-4	90
4			Heptane	100	C7H16	000142-82-5	59
5			Hexane, 2,3-dimethyl-	114	C8H18	000584-94-1	53



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042365.D
Acq On : 17 Apr 2025 19:31
Operator : SY/MD
Sample : Q1668-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

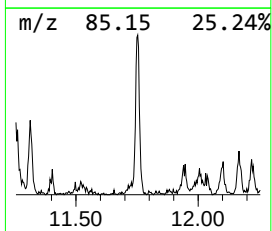
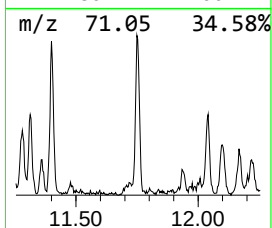
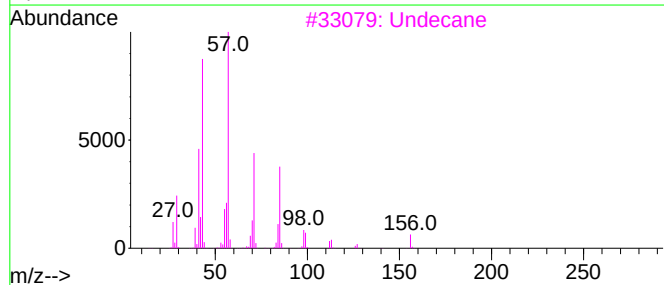
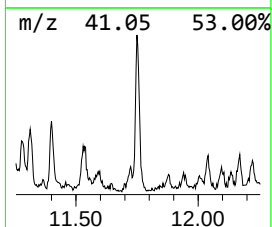
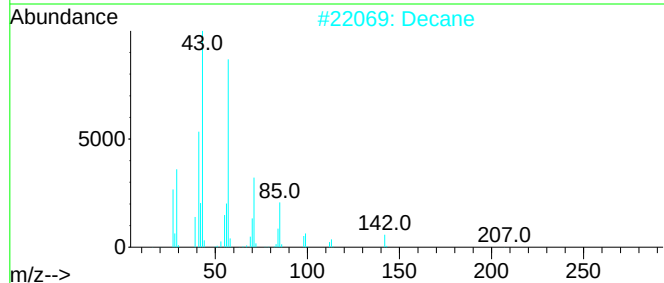
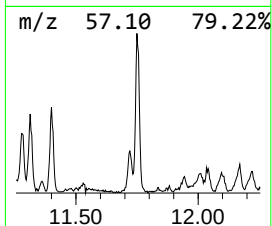
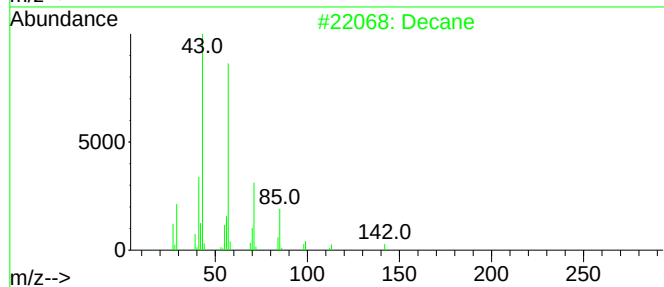
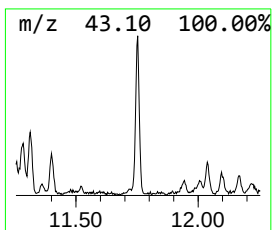
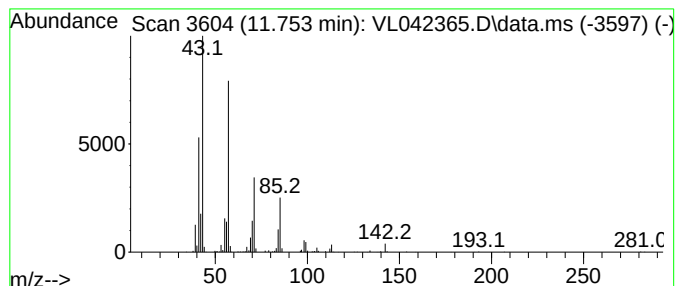
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Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 2 Decane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.753	3.75 ppbv	425736	Chlorobenzene-d5	8.879

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decane			142	C10H22	000124-18-5	91
2	Decane			142	C10H22	000124-18-5	90
3	Undecane			156	C11H24	001120-21-4	83
4	Decane			142	C10H22	000124-18-5	72
5	Undecane, 4,7-dimethyl-			184	C13H28	017301-32-5	72



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042365.D
Acq On : 17 Apr 2025 19:31
Operator : SY/MD
Sample : Q1668-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

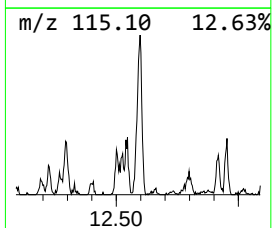
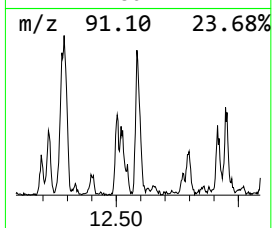
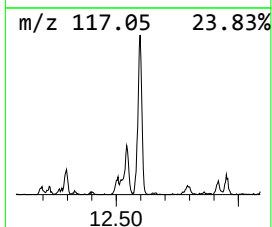
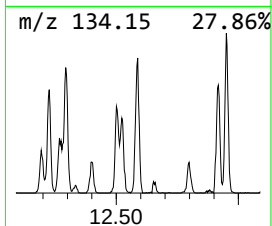
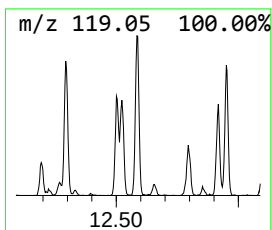
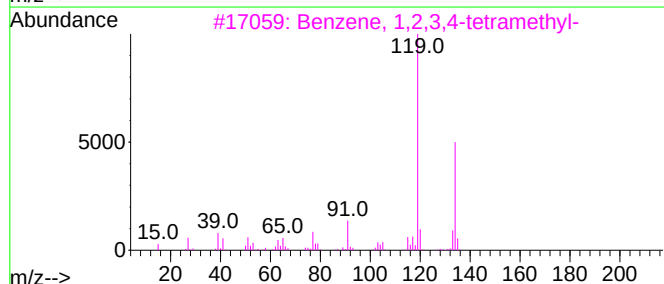
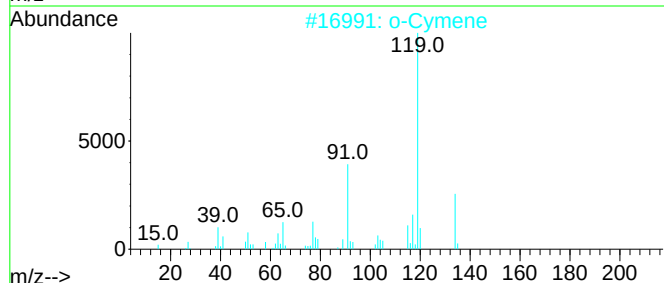
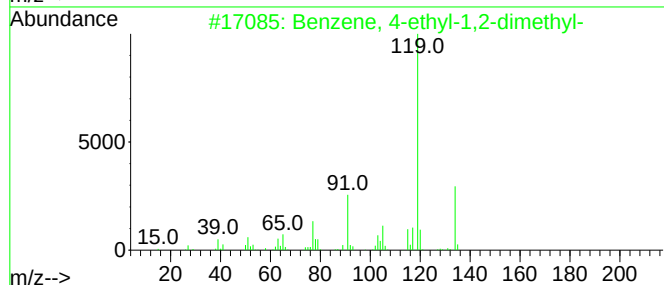
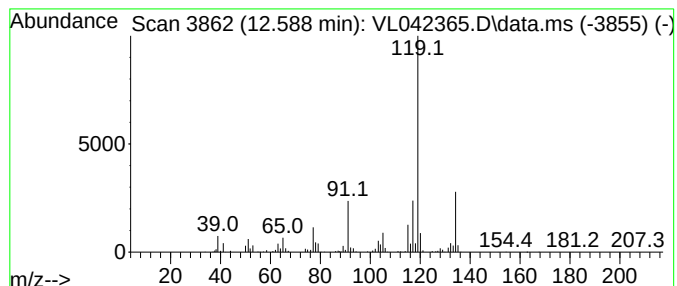
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ClientSampleId :
IA-B1-2-3252025

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Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 3 Benzene, 4-ethyl-1,2-dimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD			R.T.
12.588	3.46 ppbv	392865	Chlorobenzene-d5			8.879
Hit# of 5	Tentative ID		MW	MolForm	CAS#	Qual
1	Benzene, 4-ethyl-1,2-dimethyl-		134	C10H14	000934-80-5	94
2	o-Cymene		134	C10H14	000527-84-4	90
3	Benzene, 1,2,3,4-tetramethyl-		134	C10H14	000488-23-3	87
4	Benzene, 2-ethyl-1,3-dimethyl-		134	C10H14	002870-04-4	87
5	Benzene, 1-ethyl-3,5-dimethyl-		134	C10H14	000934-74-7	87



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042365.D
Acq On : 17 Apr 2025 19:31
Operator : SY/MD
Sample : Q1668-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

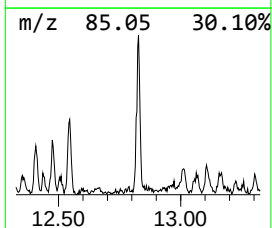
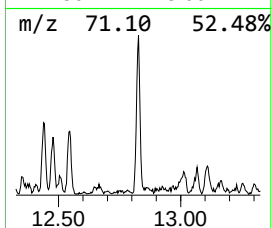
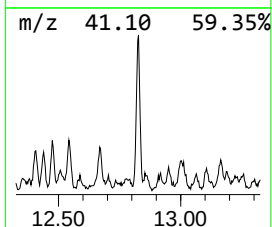
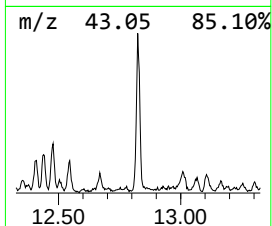
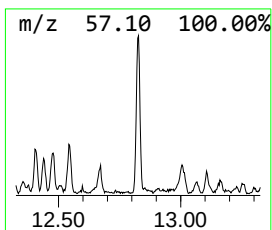
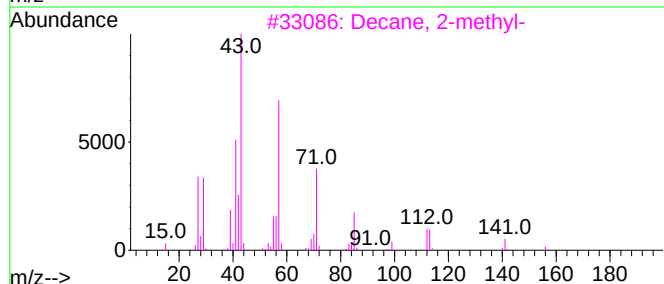
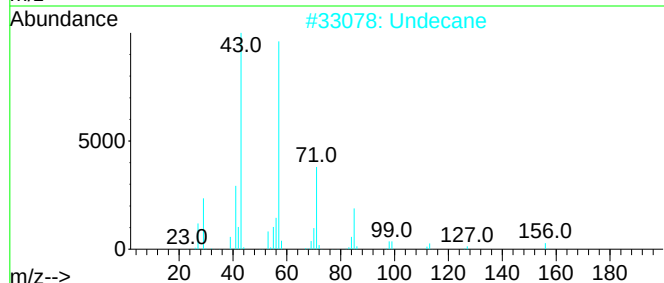
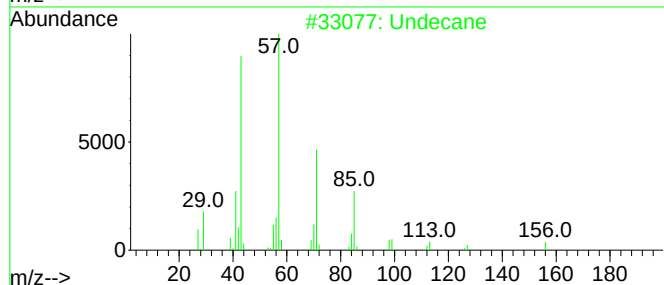
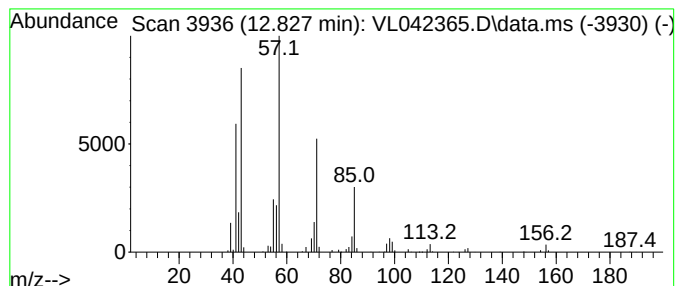
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Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 4 Undecane Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.827	2.92 ppbv	331834	Chlorobenzene-d5	8.879

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane			156	C11H24	001120-21-4	87
2	Undecane			156	C11H24	001120-21-4	81
3	Decane, 2-methyl-			156	C11H24	006975-98-0	80
4	Decane			142	C10H22	000124-18-5	78
5	Tridecane			184	C13H28	000629-50-5	72



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042365.D
Acq On : 17 Apr 2025 19:31
Operator : SY/MD
Sample : Q1668-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

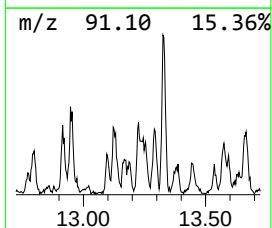
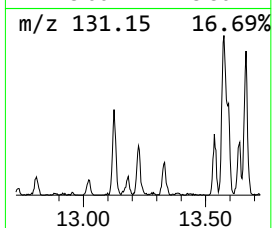
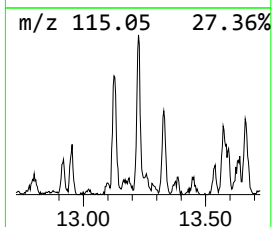
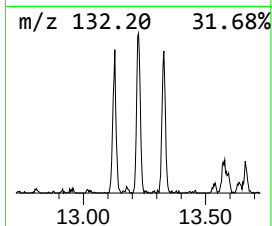
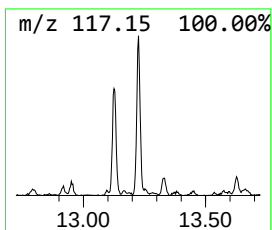
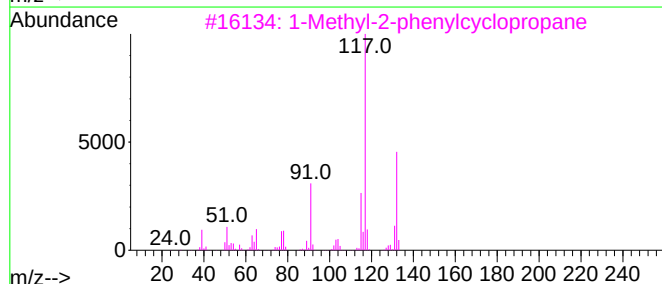
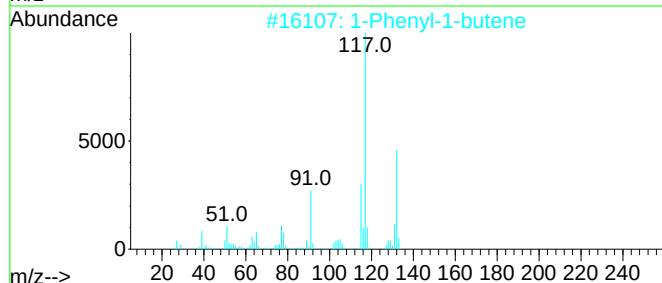
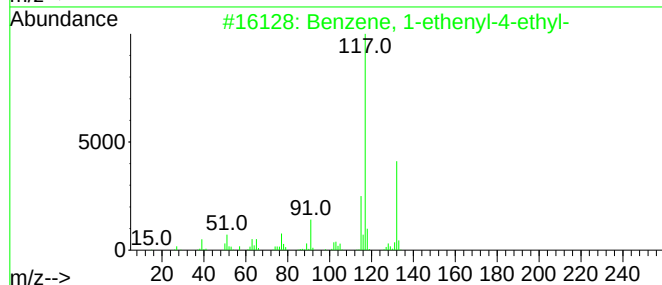
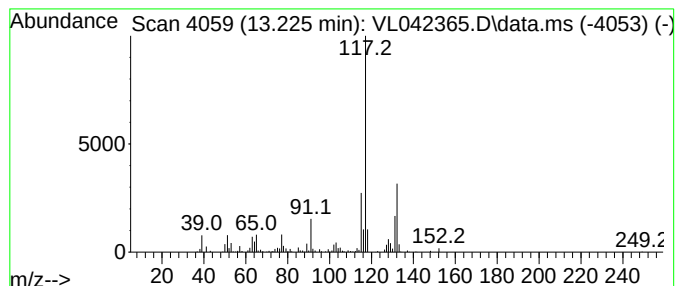
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Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 5 Benzene, 1-ethenyl-4-ethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.225	2.60 ppbv	295096	Chlorobenzene-d5	8.879

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzene, 1-ethenyl-4-ethyl-	132	C10H12	003454-07-7	94
2			1-Phenyl-1-butene	132	C10H12	000824-90-8	94
3			1-Methyl-2-phenylcyclopropane	132	C10H12	003145-76-4	94
4			Indan, 1-methyl-	132	C10H12	000767-58-8	91
5			3-Phenylbut-1-ene	132	C10H12	000934-10-1	91



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042365.D
Acq On : 17 Apr 2025 19:31
Operator : SY/MD
Sample : Q1668-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

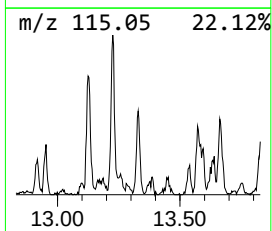
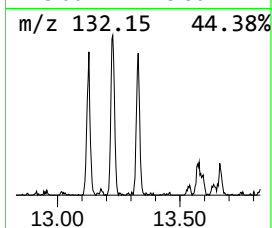
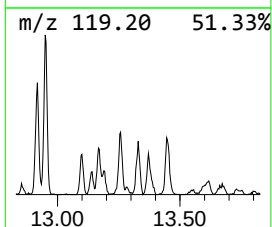
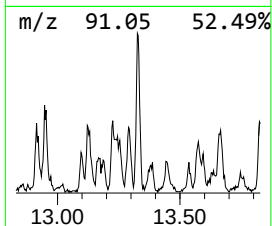
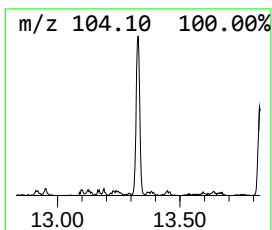
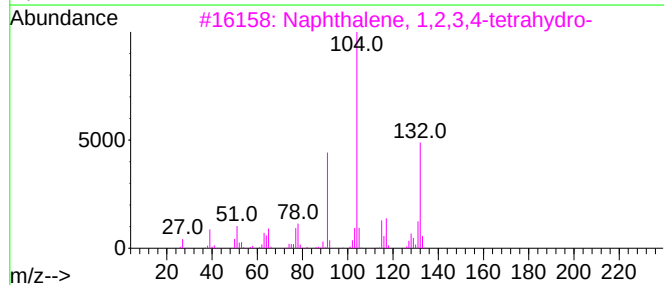
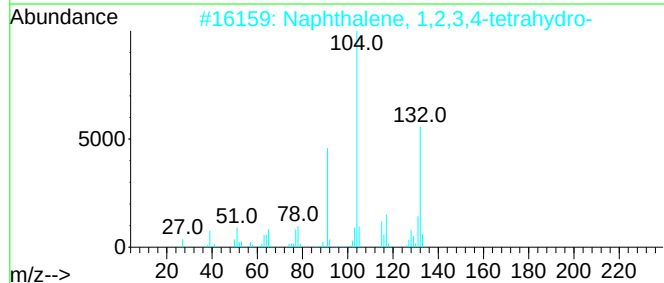
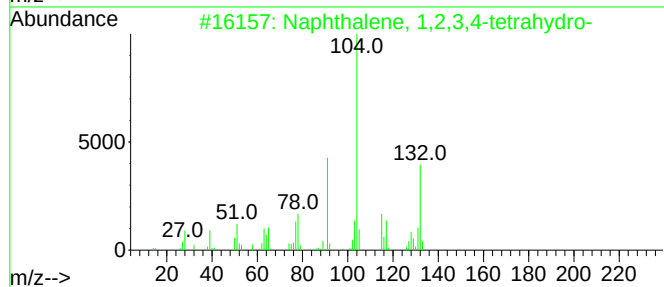
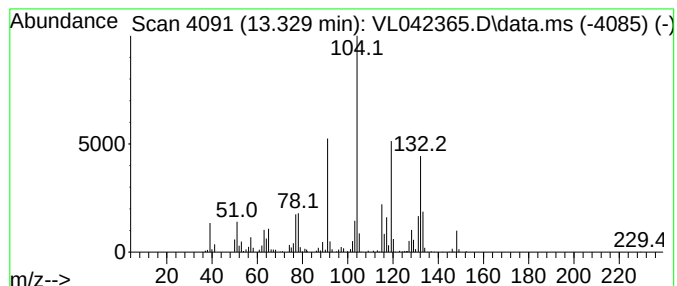
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 6 Naphthalene, 1,2,3,4-tetrahydro- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD			R.T.
13.329	2.71 ppbv	307548	Chlorobenzene-d5			8.879
Hit# of 5	Tentative ID		MW	MolForm	CAS#	Qual
1	Naphthalene, 1,2,3,4-tetrahydro-		132	C10H12	000119-64-2	95
2	Naphthalene, 1,2,3,4-tetrahydro-		132	C10H12	000119-64-2	92
3	Naphthalene, 1,2,3,4-tetrahydro-		132	C10H12	000119-64-2	92
4	Naphthalene, 1,2,3,4-tetrahydro-		132	C10H12	000119-64-2	64
5	Naphthalene, 1,2,3,4-tetrahydro-		132	C10H12	000119-64-2	64



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042365.D
Acq On : 17 Apr 2025 19:31
Operator : SY/MD
Sample : Q1668-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

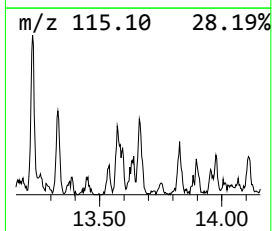
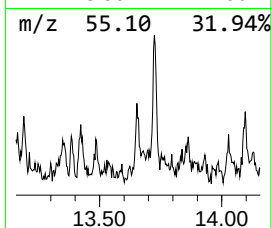
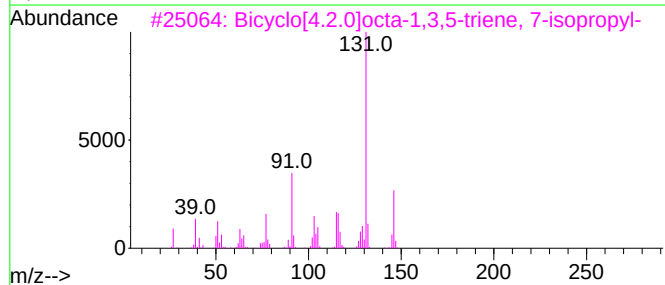
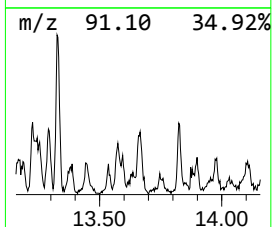
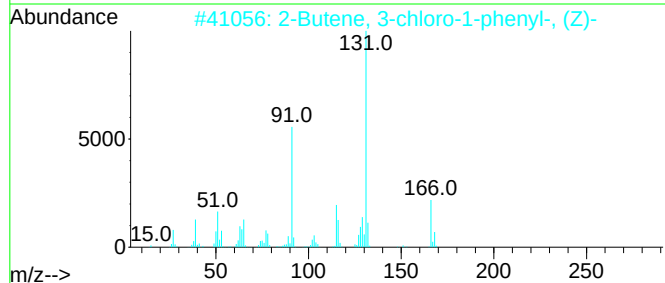
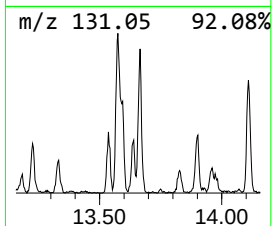
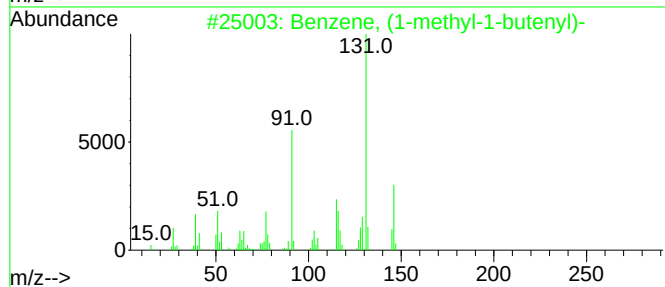
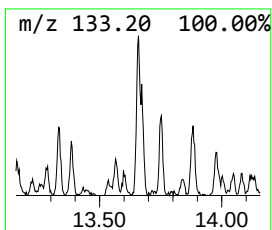
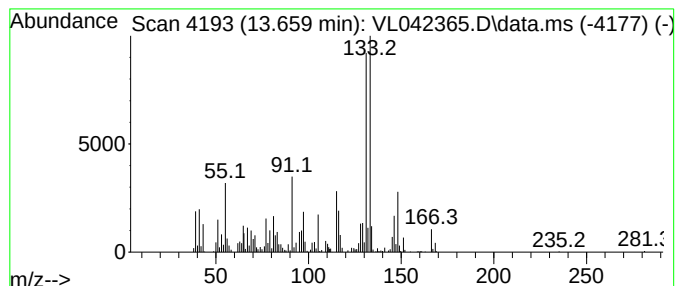
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 7 Benzene, (1-methyl-1-butenyl)- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.659	3.10 ppbv	351962	Chlorobenzene-d5	8.879

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzene, (1-methyl-1-butenyl)-	146	C11H14	053172-84-2	64
2			2-Butene, 3-chloro-1-phenyl-, (Z)-	166	C10H11Cl	016608-68-7	64
3			Bicyclo[4.2.0]octa-1,3,5-triene,...	146	C11H14	027087-54-3	50
4			Benzene, (2-chloro-2-butenyl)-	166	C10H11Cl	054411-12-0	50
5			Benzene, 1-methyl-3-(1-methyl-2-...	146	C11H14	052161-57-6	50



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042365.D
Acq On : 17 Apr 2025 19:31
Operator : SY/MD
Sample : Q1668-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

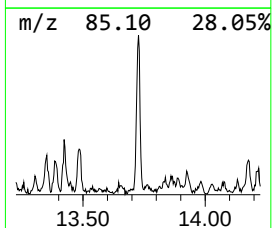
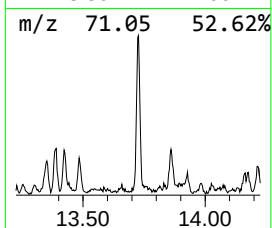
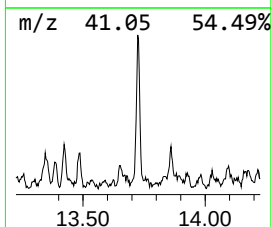
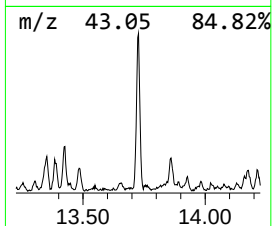
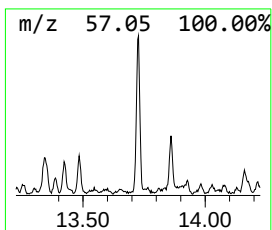
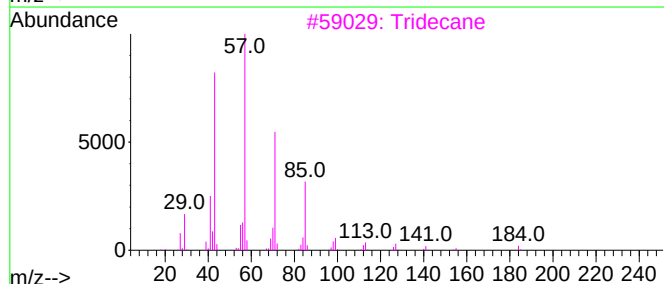
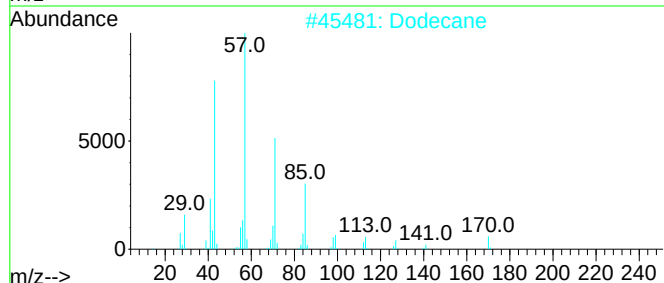
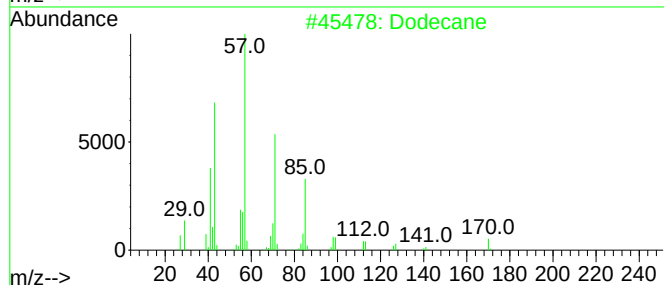
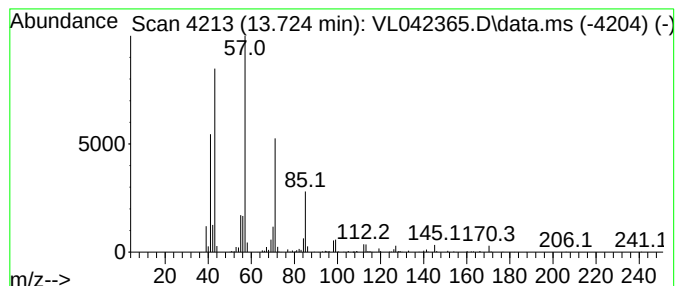
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 8 Dodecane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.724	3.42 ppbv	388375	Chlorobenzene-d5	8.879

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane			170	C12H26	000112-40-3	96
2	Dodecane			170	C12H26	000112-40-3	95
3	Tridecane			184	C13H28	000629-50-5	90
4	Undecane			156	C11H24	001120-21-4	86
5	Dodecane			170	C12H26	000112-40-3	86



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042365.D
Acq On : 17 Apr 2025 19:31
Operator : SY/MD
Sample : Q1668-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

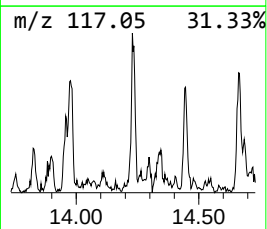
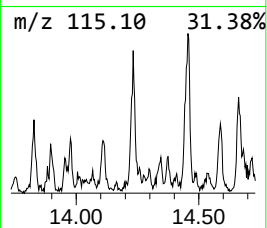
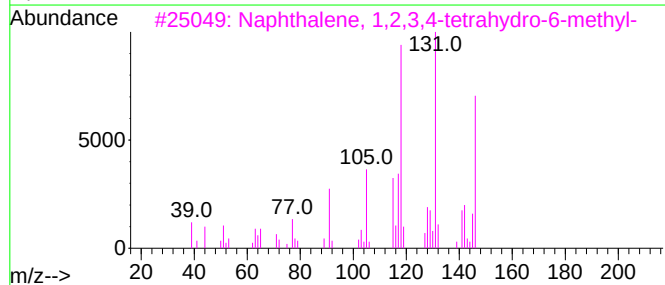
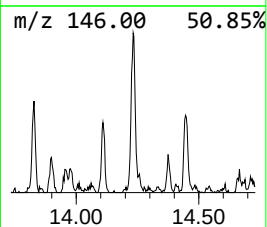
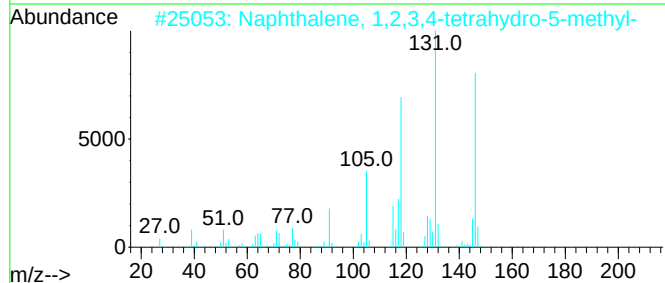
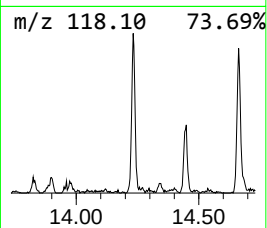
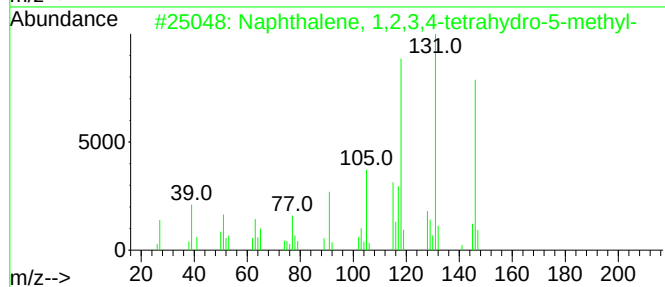
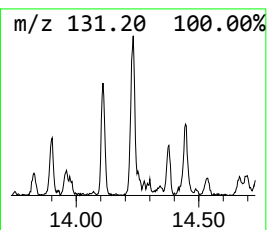
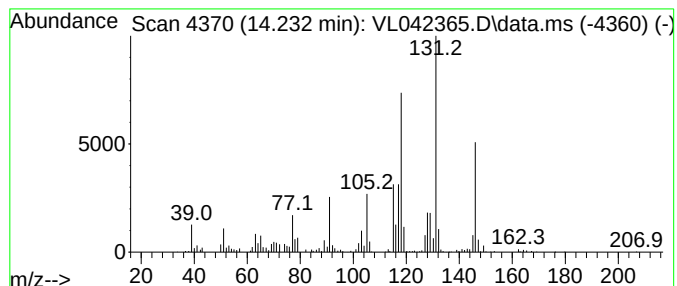
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 9 Naphthalene, 1,2,3,4-tetrahydro-... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.	
14.232	3.62 ppbv	411559	Chlorobenzene-d5	8.879	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	002809-64-5	97
2	Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	002809-64-5	96
3	Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	001680-51-9	95
4	Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	002809-64-5	94
5	Naphthalene, 1,2,3,4-tetrahydro-...	146	C11H14	001680-51-9	94



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042365.D
Acq On : 17 Apr 2025 19:31
Operator : SY/MD
Sample : Q1668-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

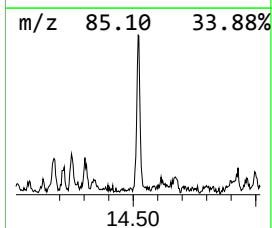
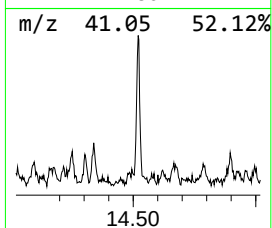
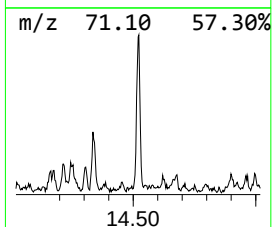
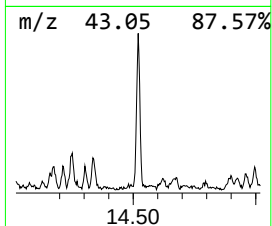
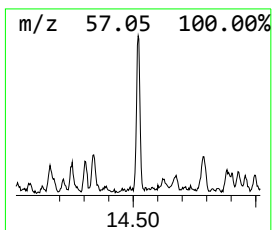
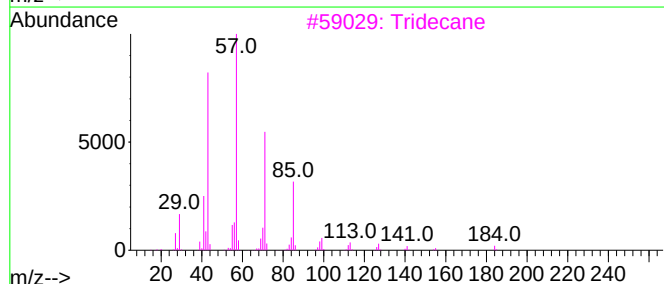
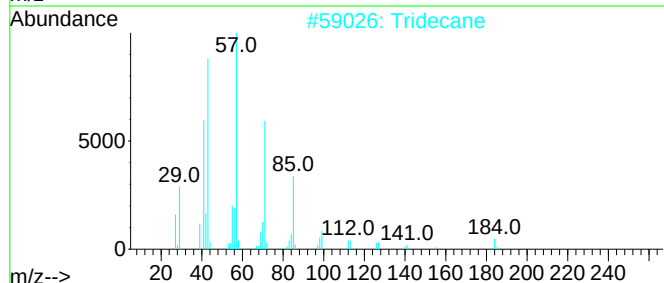
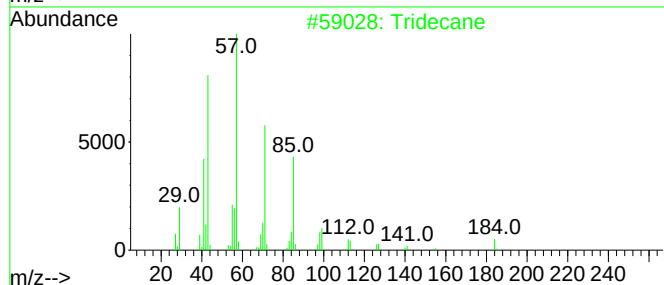
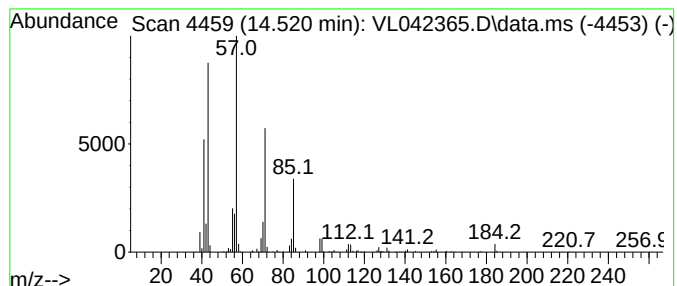
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 10 Tridecane Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.520	3.40 ppbv	386516	Chlorobenzene-d5	8.879

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tridecane			184	C13H28	000629-50-5	95
2	Tridecane			184	C13H28	000629-50-5	94
3	Tridecane			184	C13H28	000629-50-5	94
4	Tridecane			184	C13H28	000629-50-5	90
5	Dodecane			170	C12H26	000112-40-3	90



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042365.D
Acq On : 17 Apr 2025 19:31
Operator : SY/MD
Sample : Q1668-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST0.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
Hexane, 3-methyl-	4.266	3.0	ppbv	277896	2	3.959	910647	10.0
Decane	11.753	3.8	ppbv	425736	3	8.879	1135540	10.0
Benzene, 4-ethy...	12.588	3.5	ppbv	392865	3	8.879	1135540	10.0
Undecane	12.827	2.9	ppbv	331834	3	8.879	1135540	10.0
Benzene, 1-ethe...	13.225	2.6	ppbv	295096	3	8.879	1135540	10.0
Naphthalene, 1,...	13.329	2.7	ppbv	307548	3	8.879	1135540	10.0
Benzene, (1-met...	13.659	3.1	ppbv	351962	3	8.879	1135540	10.0
Dodecane	13.724	3.4	ppbv	388375	3	8.879	1135540	10.0
Naphthalene, 1,...	14.232	3.6	ppbv	411559	3	8.879	1135540	10.0
Tridecane	14.520	3.4	ppbv	386516	3	8.879	1135540	10.0

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/26/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/27/25
Client Sample ID:	IA-B1-3-3252025	SDG No.:	Q1668
Lab Sample ID:	Q1668-03	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042363.D	1		04/17/25 18:24	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.44	2.18	J	1.04	2.47	ug/m3
74-87-3	Chloromethane	0.60	1.24		0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.010	0.030	U	0.030	0.080	ug/m3
74-83-9	Bromomethane	0.14	0.54	U	0.54	1.94	ug/m3
75-00-3	Chloroethane	0.17	0.45	U	0.45	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.13	0.38	U	0.38	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.22	1.24	J	0.90	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.16	1.23	U	1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.090	0.63	U	0.63	3.49	ug/m3
75-65-0	tert-Butyl alcohol	0.19	0.58	U	0.58	1.52	ug/m3
142-82-5	Heptane	1.50	6.15		0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
67-64-1	Acetone	5.20	12.3		0.57	1.19	ug/m3
75-15-0	Carbon Disulfide	0.16	0.50	U	0.50	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.12	0.43	U	0.43	1.80	ug/m3
75-09-2	Methylene Chloride	0.82	2.85		0.66	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.19	0.75	U	0.75	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.13	0.53	U	0.53	2.02	ug/m3
110-82-7	Cyclohexane	1.70	5.85		0.76	1.72	ug/m3
78-93-3	2-Butanone	0.77	2.27		0.35	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.070	0.44		0.060	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.090	0.36	U	0.36	1.98	ug/m3
67-66-3	Chloroform	0.080	0.39	U	0.39	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.010	0.050	U	0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.16	0.75	J	0.47	2.34	ug/m3
71-43-2	Benzene	0.57	1.82		0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.090	0.36	U	0.36	2.02	ug/m3
79-01-6	Trichloroethene	0.030	0.16		0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.11	0.51	U	0.51	2.31	ug/m3
75-27-4	Bromodichloromethane	0.080	0.54	U	0.54	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	15.3	62.7	E	0.37	2.05	ug/m3
108-88-3	Toluene	1.40	5.28		0.41	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.070	0.38	U	0.38	2.73	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/26/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/27/25
Client Sample ID:	IA-B1-3-3252025	SDG No.:	Q1668
Lab Sample ID:	Q1668-03	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042363.D	1		04/17/25 18:24	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.070	0.60	U	0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.070	0.54	U	0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	0.050	0.34		0.14	0.20	ug/m3
108-90-7	Chlorobenzene	0.080	0.37	U	0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	1.10	4.78		0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	7.70	33.5		0.91	4.34	ug/m3
95-47-6	o-Xylene	2.60	11.3		0.52	2.17	ug/m3
100-42-5	Styrene	0.79	3.36		0.47	2.13	ug/m3
75-25-2	Bromoform	0.060	0.62	U	0.62	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.010	0.070	U	0.070	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.11	0.57	U	0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	1.70	8.36		0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	5.20	25.6		0.39	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.050	0.30	U	0.30	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.090	0.67	U	0.67	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.090	0.96	U	0.96	5.33	ug/m3
106-99-0	1,3-Butadiene	0.13	0.29	U	0.29	1.11	ug/m3
91-20-3	Naphthalene	0.47	2.46		0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	1.40	6.88		0.59	2.46	ug/m3
110-54-3	Hexane	2.40	8.46		0.39	1.76	ug/m3
107-05-1	Allyl Chloride	0.15	0.47	U	0.47	1.57	ug/m3
123-91-1	1,4-Dioxane	0.21	0.76	U	0.76	1.80	ug/m3
80-62-6	Methyl Methacrylate	0.090	0.37	U	0.37	2.05	ug/m3

SURROGATES

460-00-4	1-Bromo-4-Fluorobenzene	9.90		70 (65) - 130 (135)	99%	SPK: 10

INTERNAL STANDARDS

74-97-5	Bromochloromethane	118000	2.787
540-36-3	1,4-Difluorobenzene	342000	3.959
3114-55-4	Chlorobenzene-d5	304000	8.882

TENTATIVE IDENTIFIED COMPOUNDS

75-45-6	Chlorodifluoromethane	0.26	J	1.48	ppbv
115-07-1	Propene	0.56	J	1.49	ppbv
64-17-5	Ethanol	180	J	1.72	ppbv

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/26/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/27/25
Client Sample ID:	IA-B1-3-3252025	SDG No.:	Q1668
Lab Sample ID:	Q1668-03	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042363.D	1		04/17/25 18:24	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
67-63-0	Isopropyl Alcohol	2.60		J		1.89	ppbv
000108-08-7	Pentane, 2,4-dimethyl-	2.40		J		4.05	ppbv
000589-34-4	Hexane, 3-methyl-	3.10		J		4.27	ppbv
000108-94-1	Cyclohexanone	3.00		J		9.63	ppbv
003221-61-2	Octane, 2-methyl-	2.10		J		9.73	ppbv
98-82-8	Isopropylbenzene	0.16		J		10.5	ppbv
103-65-1	n-propylbenzene	0.62		J		11.0	ppbv
000124-18-5	Decane	3.60		J		11.8	ppbv
99-87-6	p-Isopropyltoluene	0.12		J		11.9	ppbv
001074-43-7	Benzene, 1-methyl-3-propyl-	1.90		J		12.2	ppbv
104-51-8	n-Butylbenzene	0.45		J		12.3	ppbv
002870-04-4	Benzene, 2-ethyl-1,3-dimethyl-	2.70		J		12.6	ppbv
001120-21-4	Undecane	2.30		J		12.8	ppbv
000119-64-2	Naphthalene, 1,2,3,4-tetrahydro-	1.90		J		13.3	ppbv
000112-40-3	Dodecane	2.10		J		13.7	ppbv
91-57-6	Naphthalene,2-methyl-	0.32		J		14.5	ppbv

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042363.D
 Acq On : 17 Apr 2025 18:24
 Operator : SY/MD
 Sample : Q1668-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B1-3-3252025

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 02:40:18 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Fri Apr 18 02:14:00 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	117934	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	342044	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	304398	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	248134	9.920	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.200%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	9160	0.440	ppbv	95
3) Chlorodifluoromethane	1.476	51	5081m	0.256	ppbv	
4) Chloromethane	1.531	50	4904	0.595	ppbv #	87
9) Propene	1.486	41	5102	0.565	ppbv	84
10) Heptane	4.981	43	38916	1.533	ppbv	97
11) Trichlorofluoromethane	1.874	101	4391	0.222	ppbv	92
13) Ethanol	1.719	45	261942	182.383	ppbv	74
15) Acetone	1.835	43	99681	5.163	ppbv	92
19) Isopropyl Alcohol	1.887	45	27920	2.603	ppbv #	36
20) Methylene Chloride	2.062	84	6217	0.822	ppbv	98
26) Hexane	2.826	57	45627	2.369	ppbv #	32
30) Cyclohexane	3.852	84	26838m	1.723	ppbv	
34) 2-Butanone	2.557	43	20715	0.766	ppbv	98
35) Carbon Tetrachloride	3.761	117	2300m	0.074	ppbv	
36) Benzene	3.654	78	20999	0.569	ppbv #	93
38) Trichloroethene	4.541	130	532m	0.033	ppbv	
44) 2,2,4-Trimethylpentane	4.638	57	10318m	0.162	ppbv	
50) 4-Methyl-2-Pentanone	5.748	43	689390	15.336	ppbv	98
52) Tetrachloroethene	8.221	164	722m	0.051	ppbv	
53) Toluene	6.936	91	63791	1.441	ppbv	100
58) Ethyl Benzene	9.351	91	69152	1.147	ppbv	94
59) m/p-Xylene	9.529	91	373837	7.695	ppbv	99
60) o-Xylene	9.966	91	127919	2.615	ppbv	99
61) Styrene	9.869	104	18463	0.791	ppbv	98
62) Isopropylbenzene	10.539	105	11682	0.163	ppbv	98
64) n-propylbenzene	10.985	120	11193m	0.620	ppbv	
69) p-Isopropyltoluene	11.924	119	9270	0.116	ppbv	97
70) n-Butylbenzene	12.283	91	37242m	0.448	ppbv	
72) 4-Ethyltoluene	11.124	105	83127	1.390	ppbv #	56
73) 1,3,5-Trimethylbenzene	11.202	105	91013	1.724	ppbv	97
74) 1,2,4-Trimethylbenzene	11.536	105	321031	5.205	ppbv #	64
79) Naphthalene	13.513	128	34268	0.465	ppbv	97
80) Naphthalene,2-methyl-	14.458	142	13508m	0.321	ppbv	

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

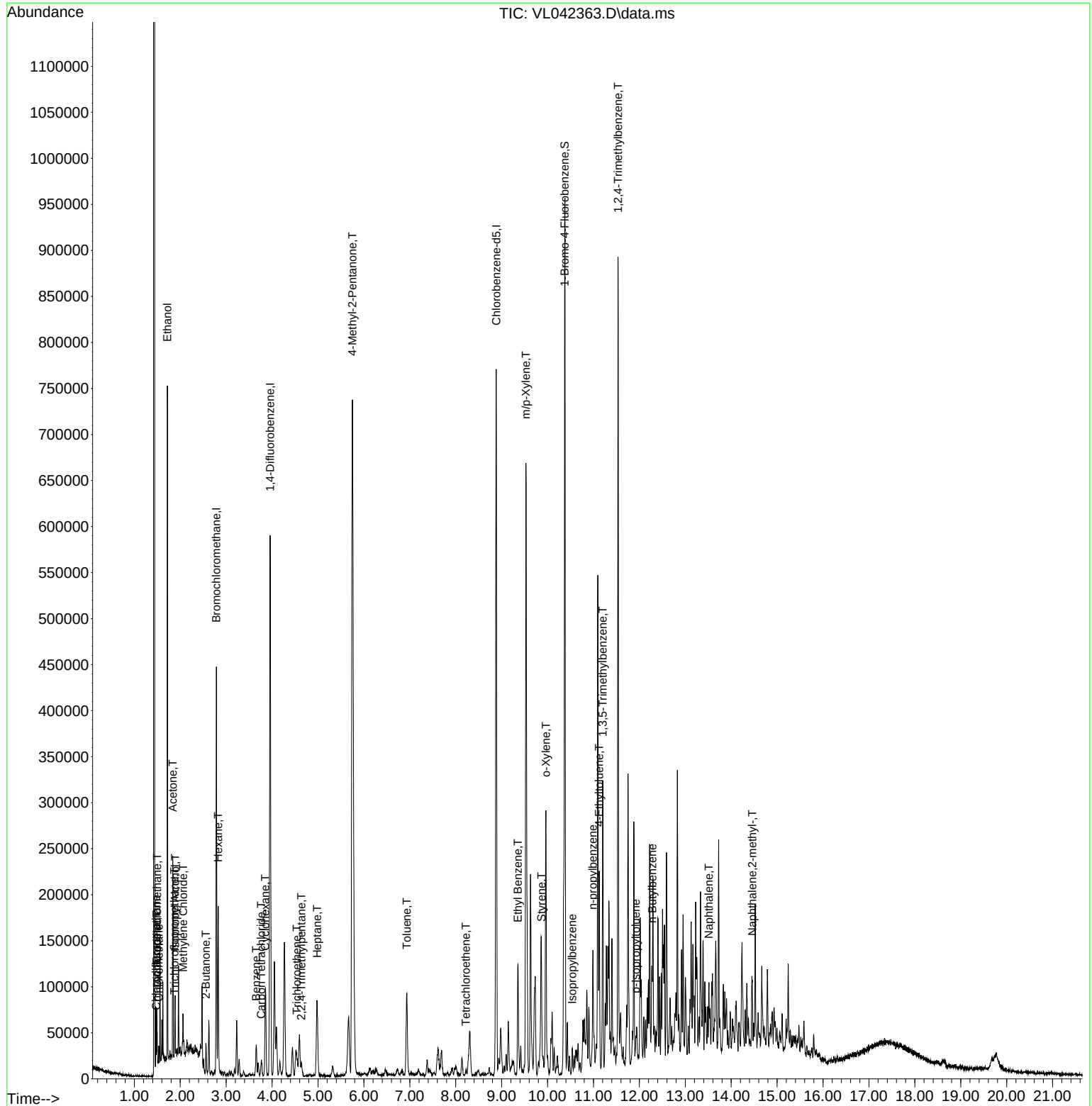
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042363.D
Acq On : 17 Apr 2025 18:24
Operator : SY/MD
Sample : Q1668-03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

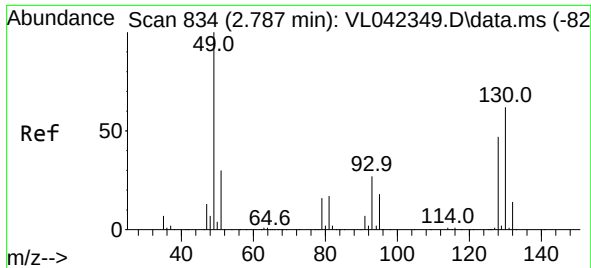
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

Quant Time: Apr 18 02:40:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

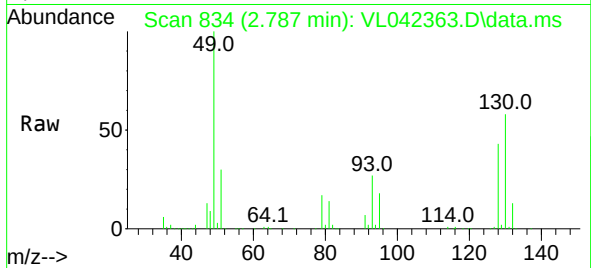
Reviewed By : Semsettin Yesilyurt 04/18/2025
Supervised By : Mahesh Dadoda 04/18/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

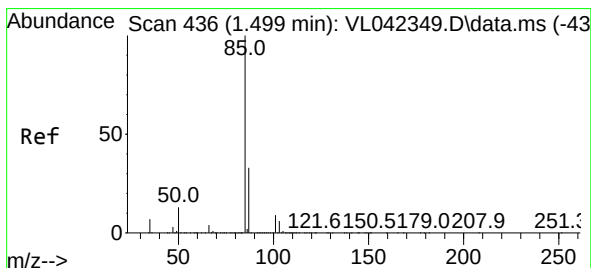
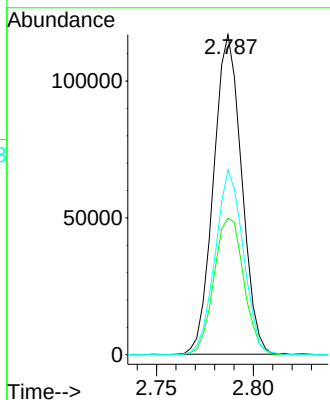
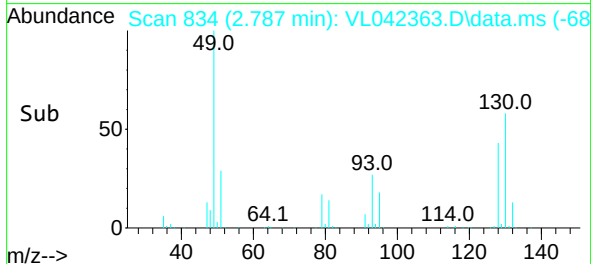
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025



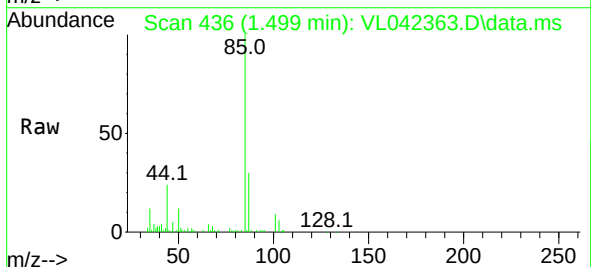
Tgt Ion: 49 Resp: 117934
Ion Ratio Lower Upper
49 100
128 45.4 22.8 68.4
130 58.0 29.3 88.0

Manual Integrations
APPROVED

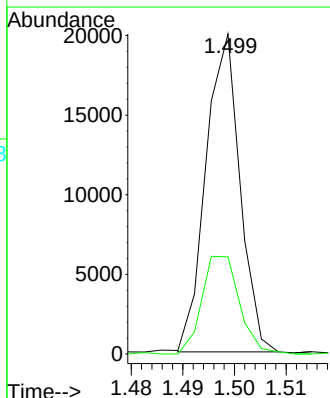
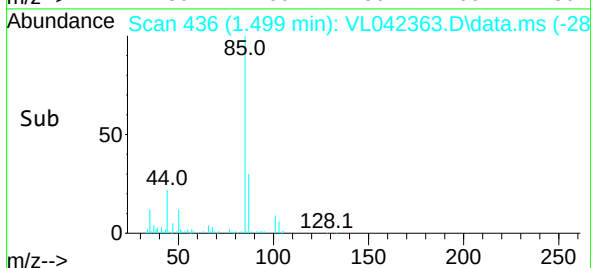
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

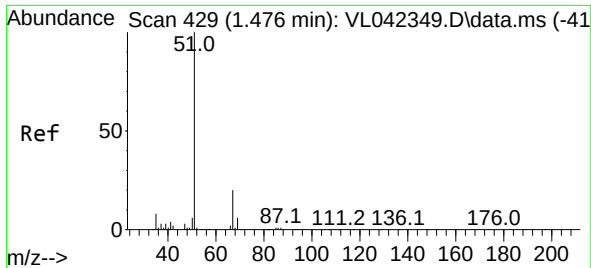


#2
Dichlorodifluoromethane
Concen: 0.440 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24



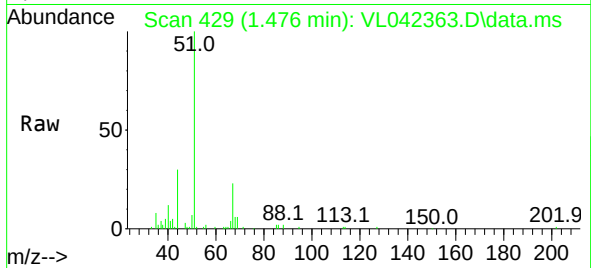
Tgt Ion: 85 Resp: 9160
Ion Ratio Lower Upper
85 100
87 30.5 26.6 39.8





#3
Chlorodifluoromethane
Concen: 0.256 ppbv m
RT: 1.476 min Scan# 429
Delta R.T. -0.000 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

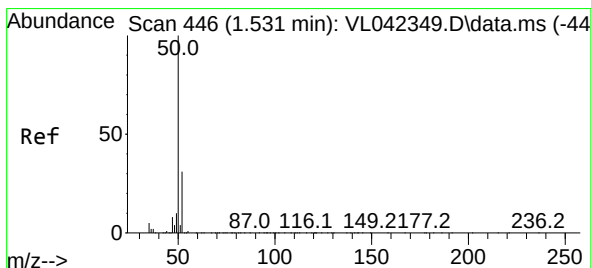
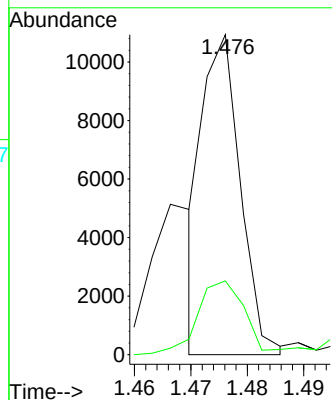
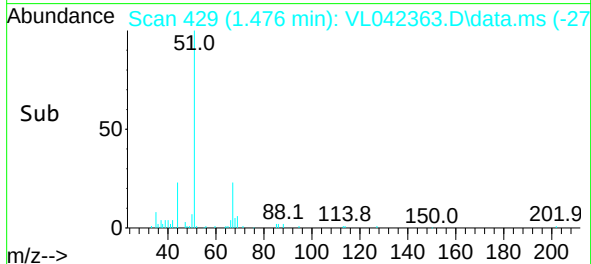
Instrument : MSVOA_L
ClientSampleId : IA-B1-3-3252025



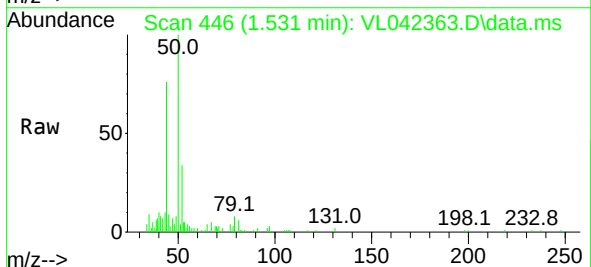
Tgt Ion: 51 Resp: 5083
Ion Ratio Lower Upper
51 100
67 32.0 16.2 24.4

Manual Integrations
APPROVED

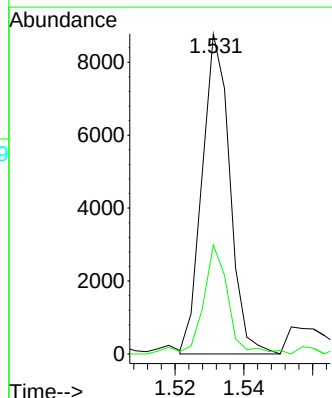
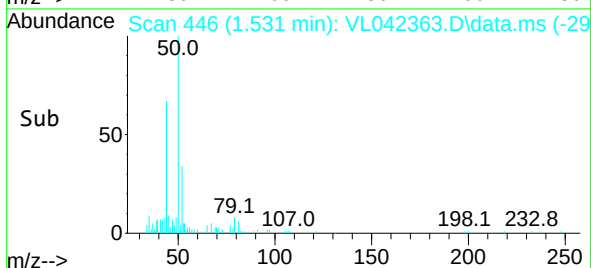
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

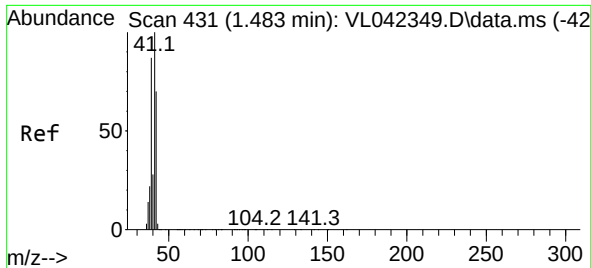


#4
Chloromethane
Concen: 0.595 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24



Tgt Ion: 50 Resp: 4904
Ion Ratio Lower Upper
50 100
52 37.8 24.7 37.1





#9

Propene

Concen: 0.565 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042363.D

Acq: 17 Apr 2025 18:24

Instrument :

MSVOA_L

ClientSampleId :

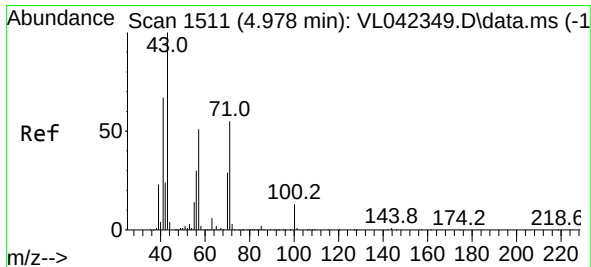
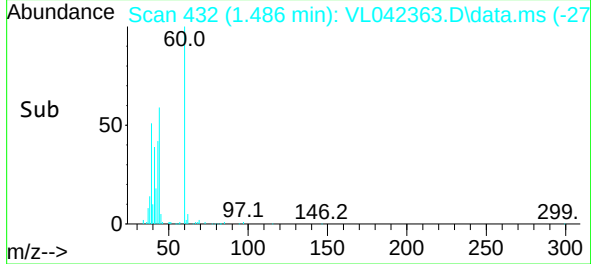
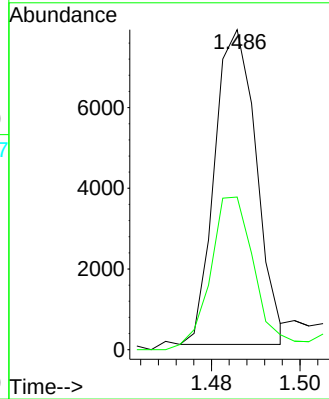
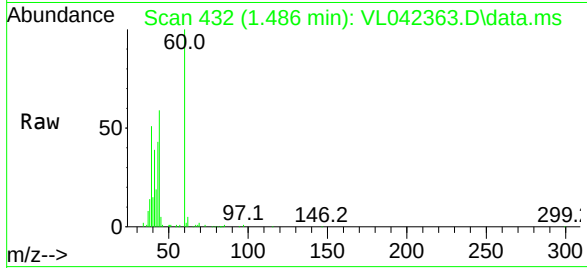
IA-B1-3-3252025

Tgt Ion: 41 Resp: 510
 Ion Ratio Lower Upper
 41 100
 42 57.3 56.2 84.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#10

Heptane

Concen: 1.533 ppbv

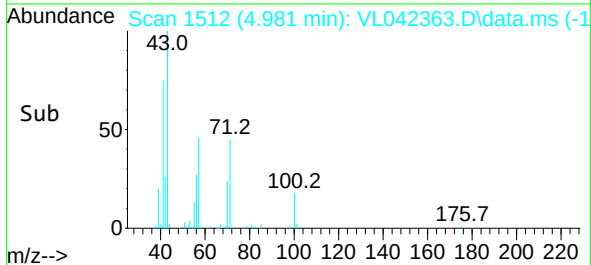
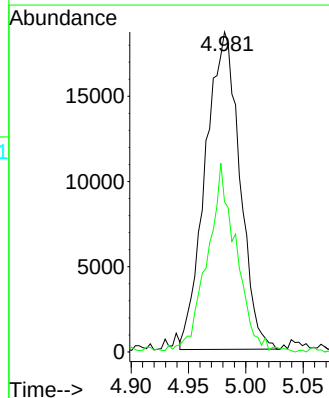
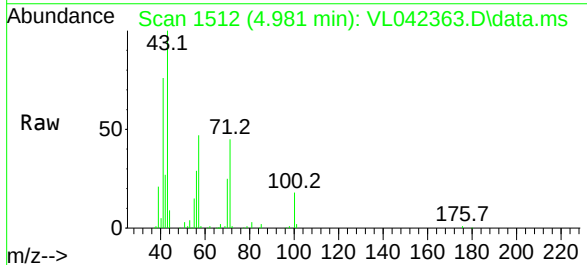
RT: 4.981 min Scan# 1512

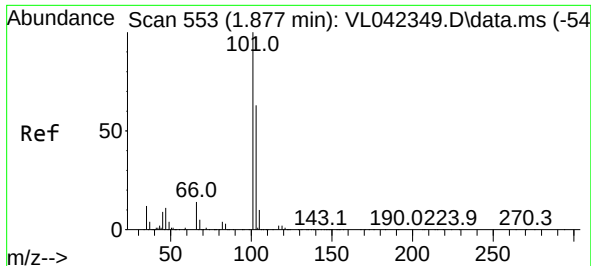
Delta R.T. 0.003 min

Lab File: VL042363.D

Acq: 17 Apr 2025 18:24

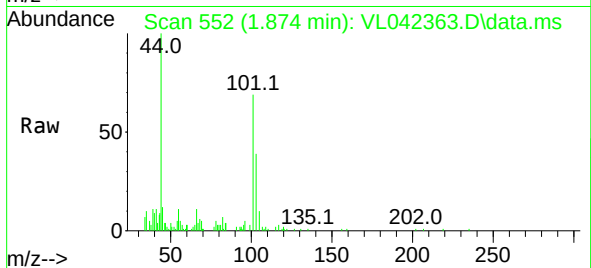
Tgt Ion: 43 Resp: 38916
 Ion Ratio Lower Upper
 43 100
 57 51.7 39.9 59.9





#11
Trichlorofluoromethane
Concen: 0.222 ppbv
RT: 1.874 min Scan# 511
Delta R.T. -0.003 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

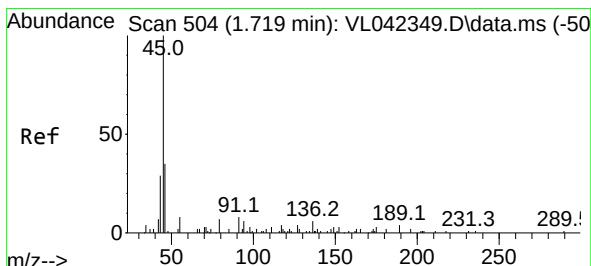
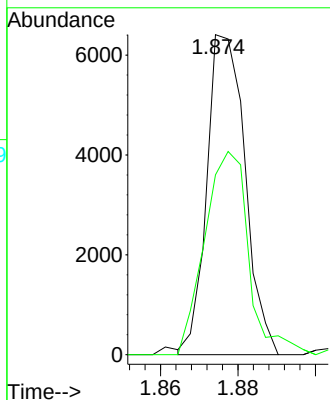
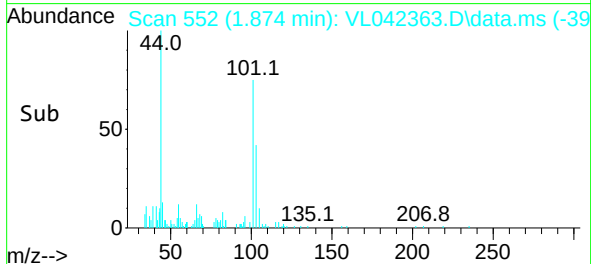
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025



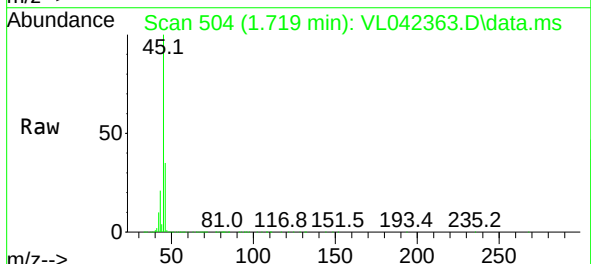
Tgt Ion:101 Resp: 439
Ion Ratio Lower Upper
101 100
103 56.2 50.1 75.1

Manual Integrations
APPROVED

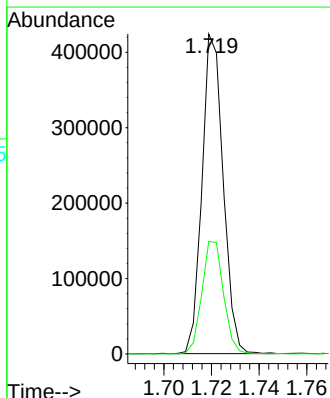
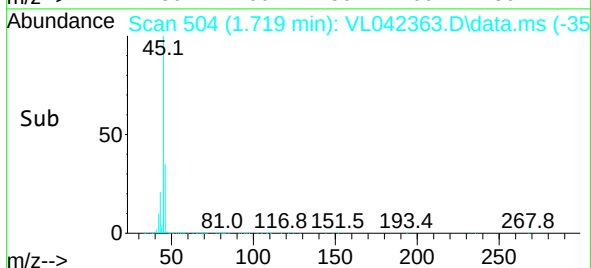
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

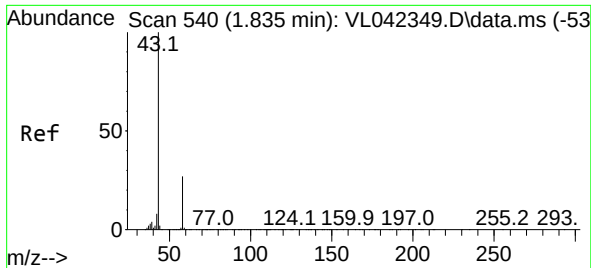


#13
Ethanol
Concen: 182.383 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24



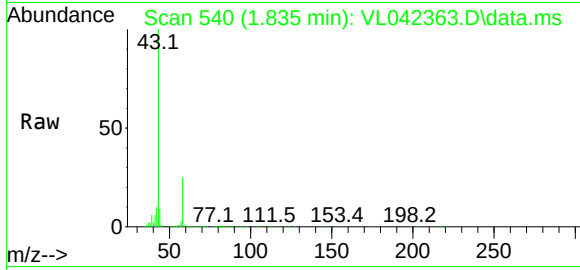
Tgt Ion: 45 Resp: 261942
Ion Ratio Lower Upper
45 100
46 36.2 21.9 87.7





#15
Acetone
Concen: 5.163 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

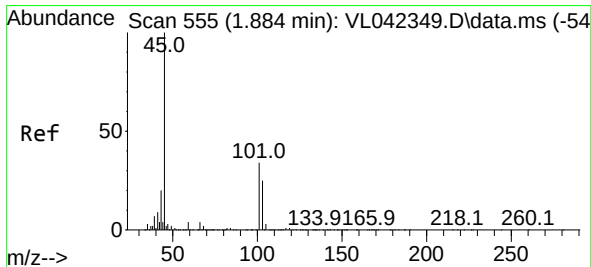
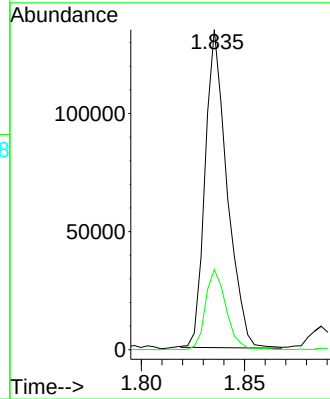
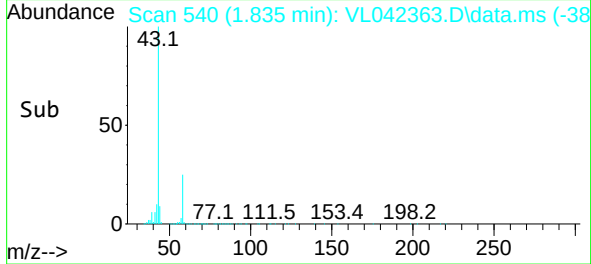
Instrument : MSVOA_L
ClientSampleId : IA-B1-3-3252025



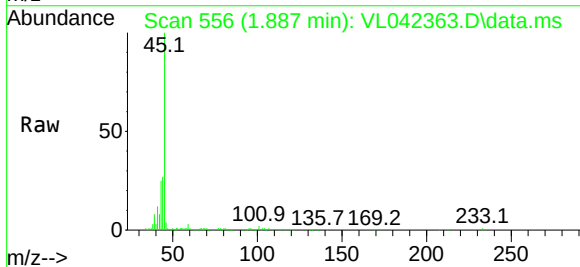
Tgt Ion: 43 Resp: 9968
Ion Ratio Lower Upper
43 100
58 23.6 22.4 33.6

Manual Integrations
APPROVED

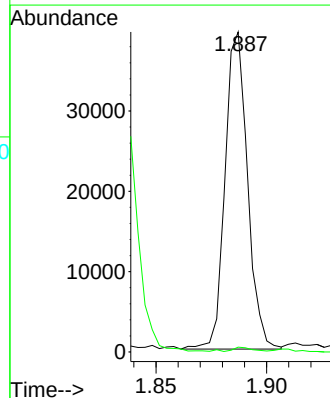
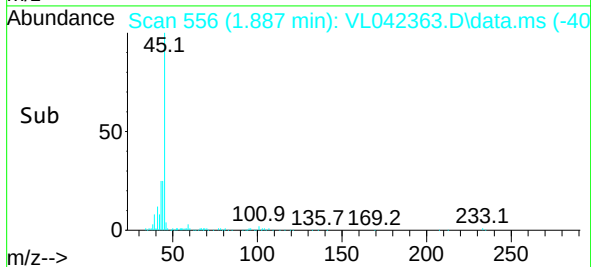
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

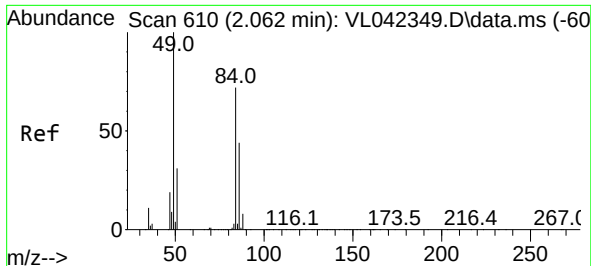


#19
Isopropyl Alcohol
Concen: 2.603 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24



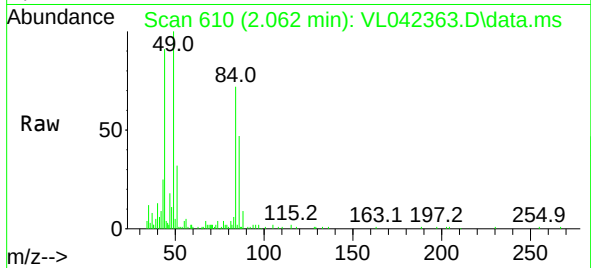
Tgt Ion: 45 Resp: 27920
Ion Ratio Lower Upper
45 100
58 84.1 34.5 51.7#





#20
Methylene Chloride
Concen: 0.822 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.000 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

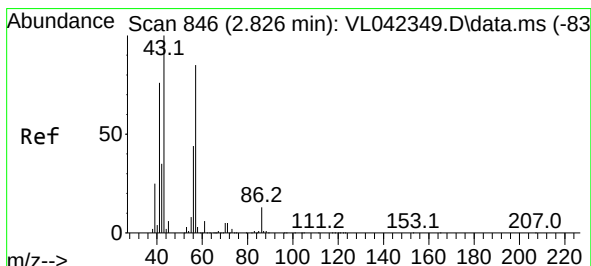
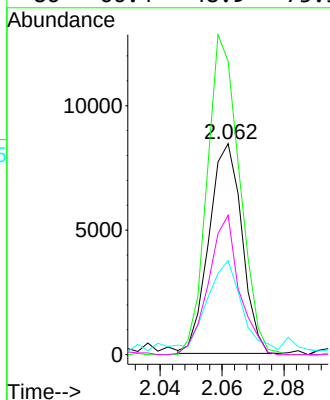
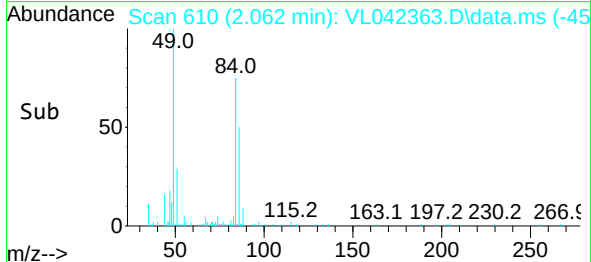
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025



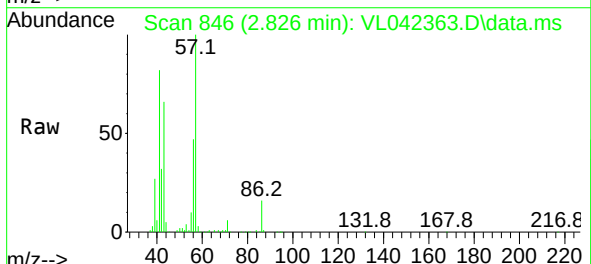
Tgt Ion	Ratio	Lower	Upper
84	100		
49	139.8	111.6	167.4
51	42.4	35.1	52.7
86	66.4	48.9	73.3

Manual Integrations
APPROVED

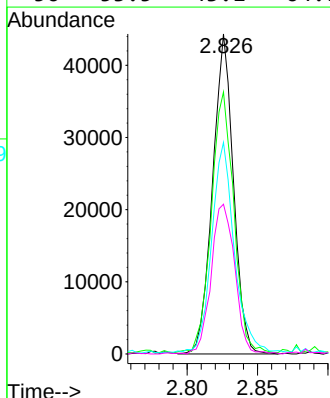
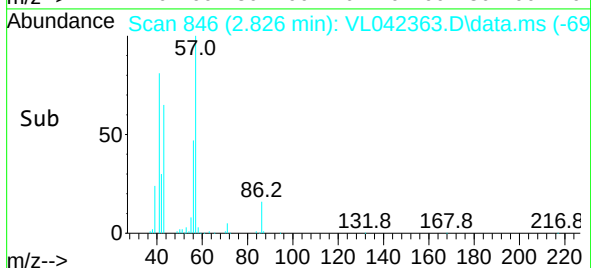
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

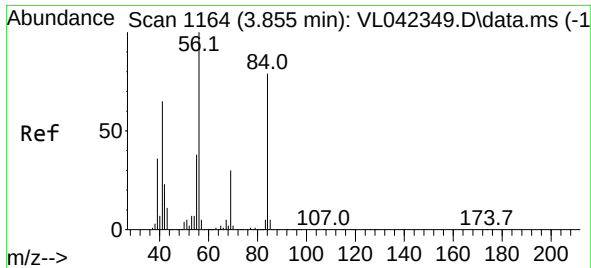


#26
Hexane
Concen: 2.369 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.000 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24



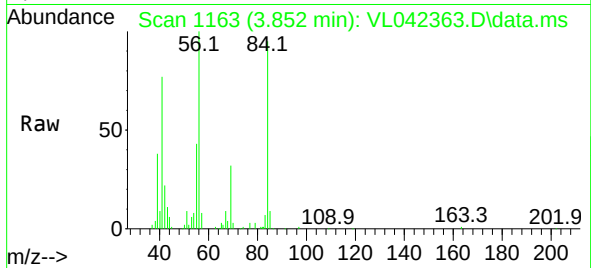
Tgt Ion	Ratio	Lower	Upper
57	100		
41	87.3	77.9	116.9
43	74.0	208.4	312.6#
56	53.5	43.1	64.7





#30
Cyclohexane
Concen: 1.723 ppbv m
RT: 3.852 min Scan# 1163
Delta R.T. -0.003 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

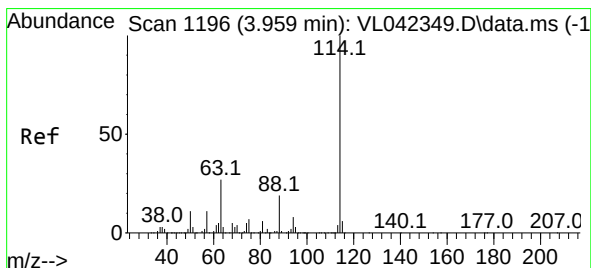
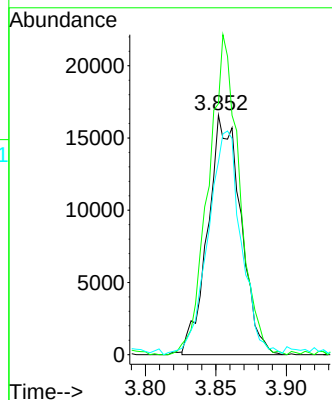
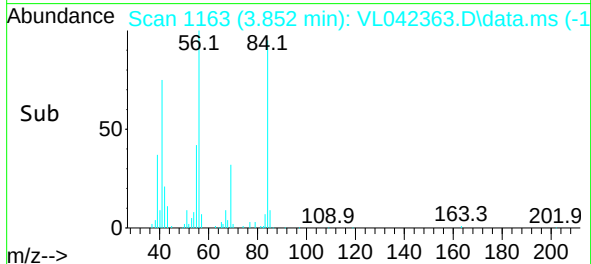
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025



Tgt Ion: 84 Resp: 26838
Ion Ratio Lower Upper
84 100
56 0.0 101.0 151.4
41 0.0 67.4 101.0

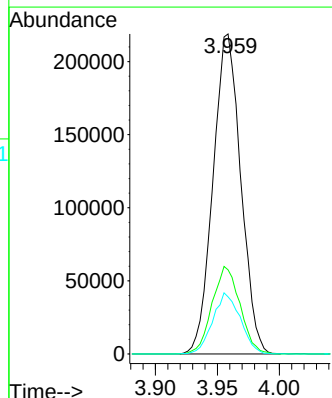
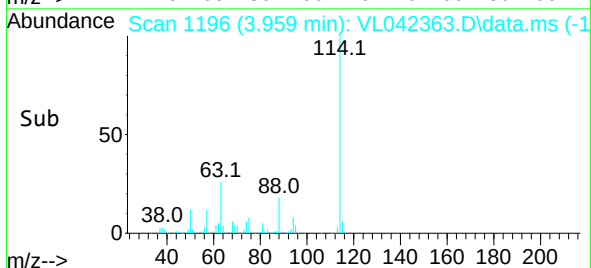
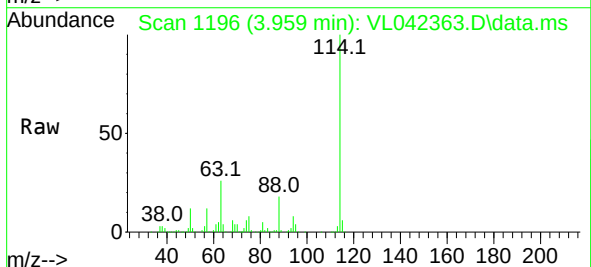
Manual Integrations
APPROVED

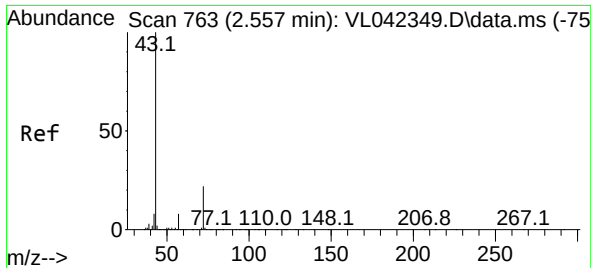
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. -0.000 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

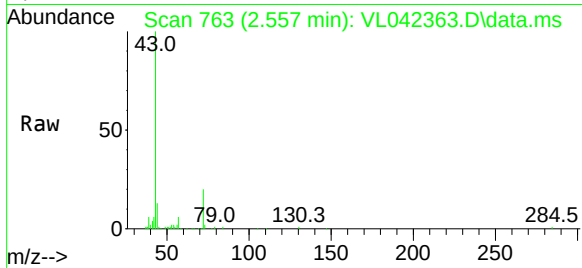
Tgt Ion:114 Resp: 342044
Ion Ratio Lower Upper
114 100
63 27.4 21.8 32.6
88 18.9 15.5 23.3





#34
2-Butanone
Concen: 0.766 ppbv
RT: 2.557 min Scan# 763
Delta R.T. -0.000 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

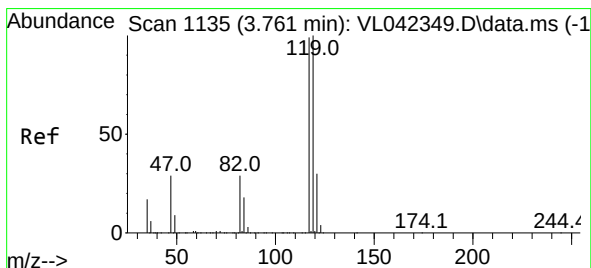
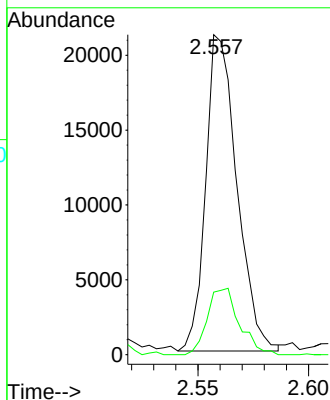
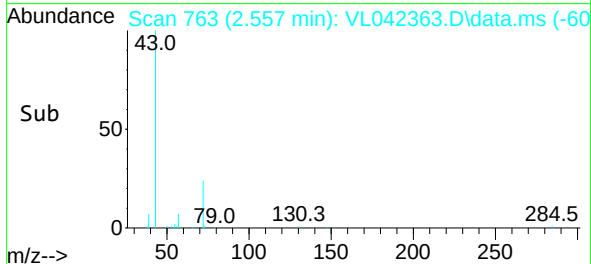
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025



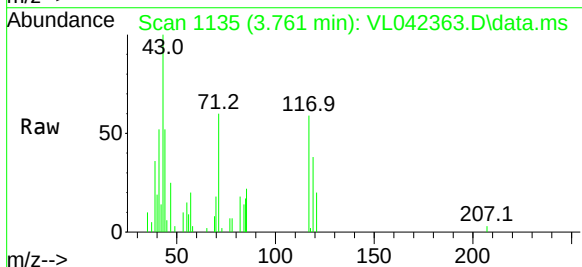
Tgt Ion: 43 Resp: 20715
Ion Ratio Lower Upper
43 100
72 21.5 18.2 27.2

Manual Integrations
APPROVED

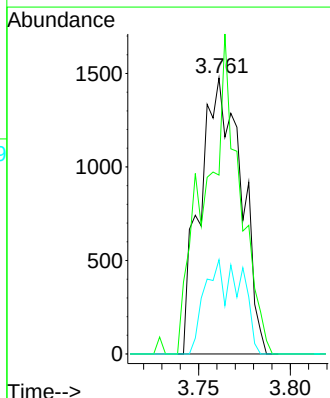
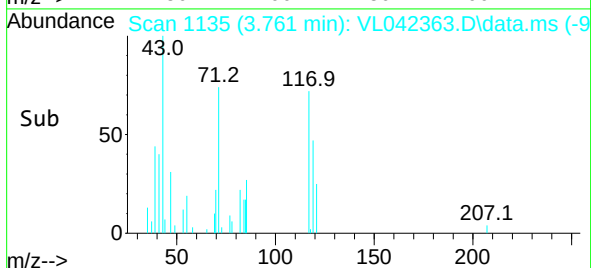
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

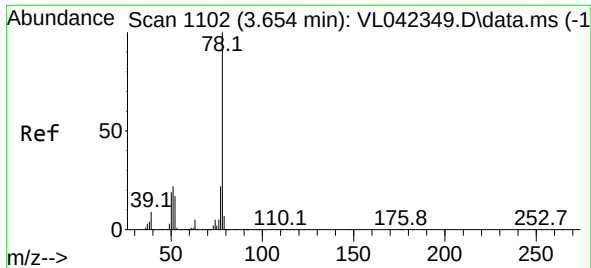


#35
Carbon Tetrachloride
Concen: 0.074 ppbv m
RT: 3.761 min Scan# 1135
Delta R.T. -0.000 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24



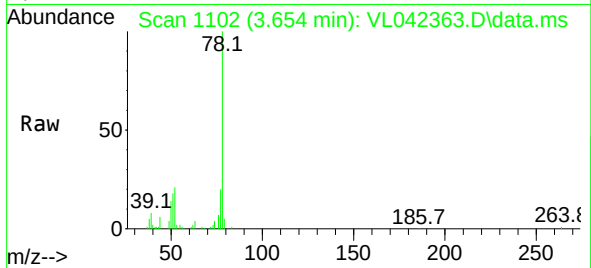
Tgt Ion:117 Resp: 2300
Ion Ratio Lower Upper
117 100
119 64.8 80.5 120.7#
121 34.1 24.2 36.2





#36
Benzene
Concen: 0.569 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. -0.000 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

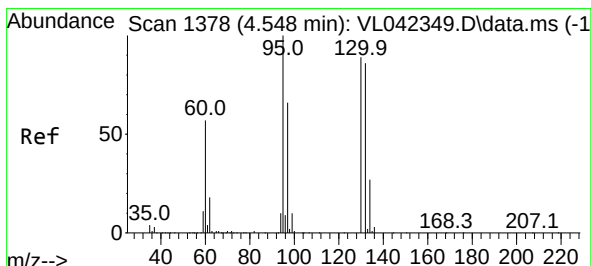
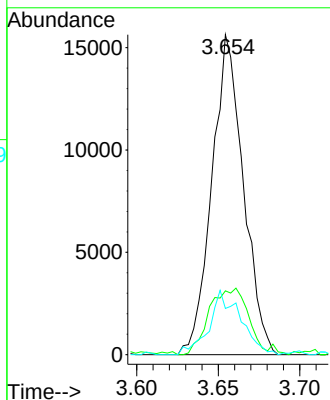
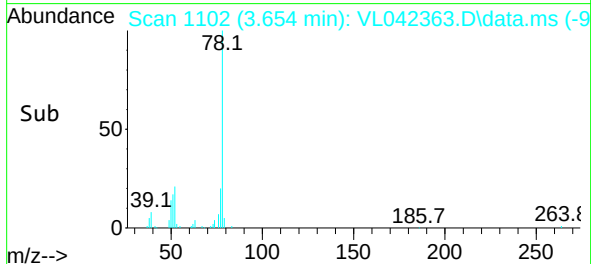
Instrument : MSVOA_L
ClientSampleId : IA-B1-3-3252025



Tgt Ion: 78 Resp: 20999
Ion Ratio Lower Upper
78 100
77 20.0 17.4 26.0
50 14.4 15.5 23.3

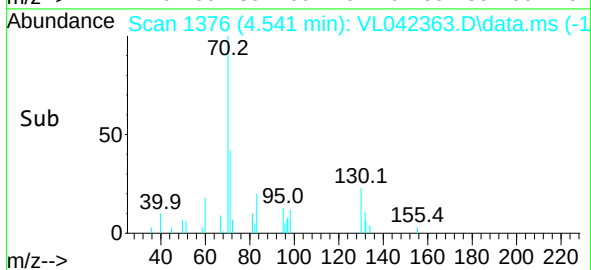
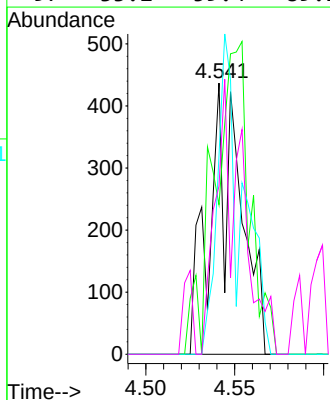
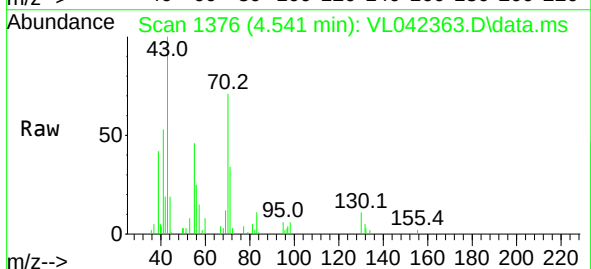
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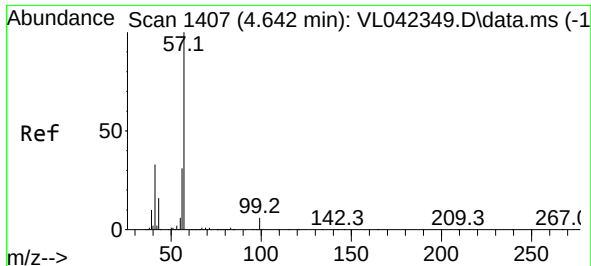
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#38
Trichloroethene
Concen: 0.033 ppbv m
RT: 4.541 min Scan# 1376
Delta R.T. -0.006 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

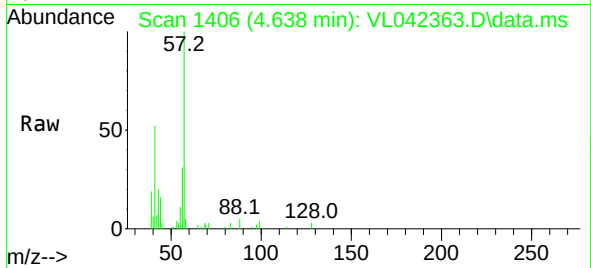
Tgt Ion:130 Resp: 532
Ion Ratio Lower Upper
130 100
95 55.1 89.8 134.6#
132 45.8 77.7 116.5#
97 33.2 59.4 89.2#





#44
2,2,4-Trimethylpentane
Concen: 0.162 ppbv m
RT: 4.638 min Scan# 1407
Delta R.T. -0.003 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

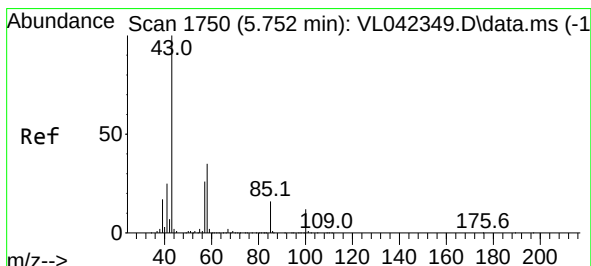
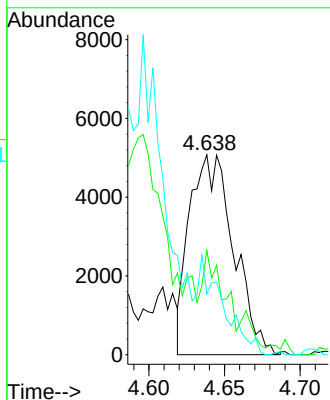
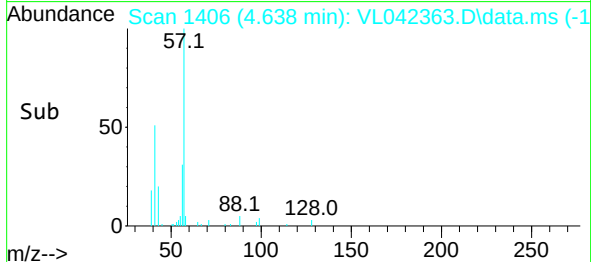
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025



Tgt Ion: 57 Resp: 10318
Ion Ratio Lower Upper
57 100
41 0.0 27.2 40.8
56 0.0 25.7 38.5

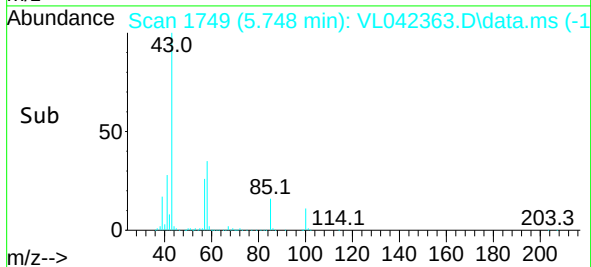
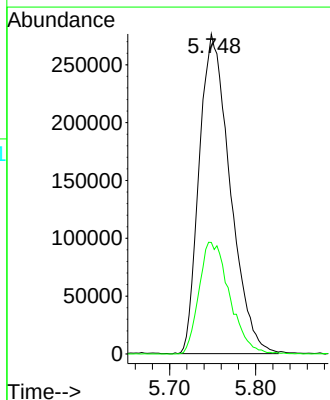
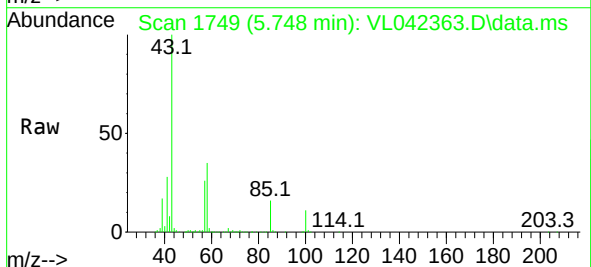
Manual Integrations
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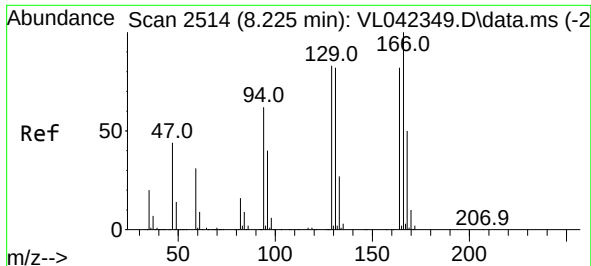
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#50
4-Methyl-2-Pentanone
Concen: 15.336 ppbv
RT: 5.748 min Scan# 1749
Delta R.T. -0.003 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

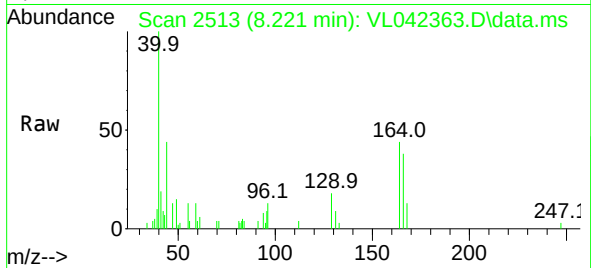
Tgt Ion: 43 Resp: 689390
Ion Ratio Lower Upper
43 100
58 34.7 28.6 43.0





#52
Tetrachloroethene
Concen: 0.051 ppbv m
RT: 8.221 min Scan# 2113
Delta R.T. -0.003 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

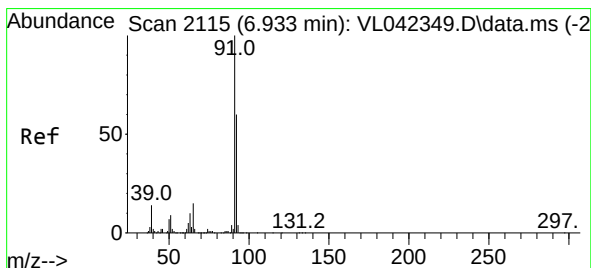
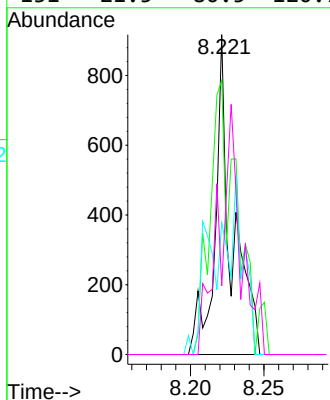
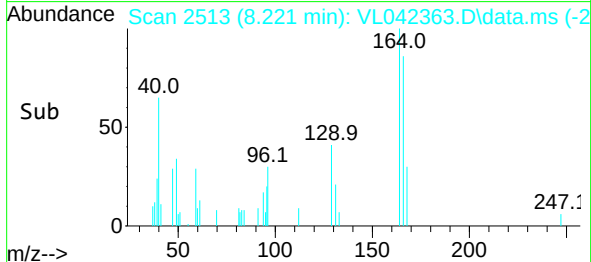
Instrument : MSVOA_L
ClientSampleId : IA-B1-3-3252025



Tgt Ion:164 Resp: 721
Ion Ratio Lower Upper
164 100
166 85.7 98.2 147.2
129 41.2 81.8 122.8
131 21.5 80.5 120.7

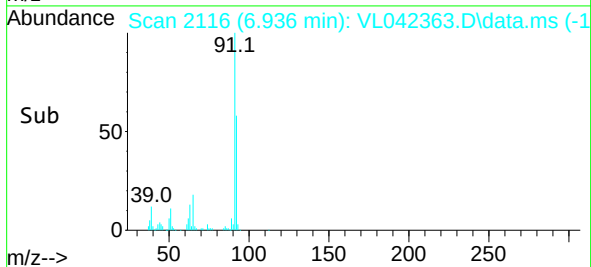
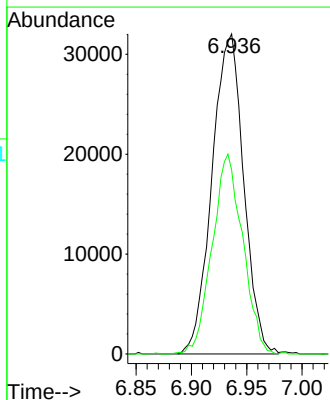
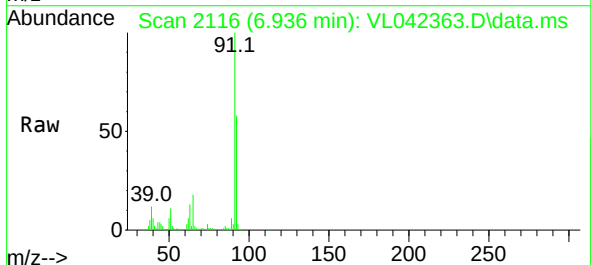
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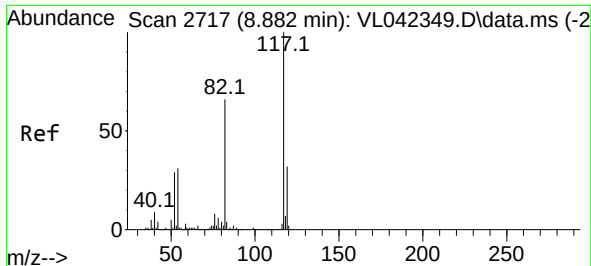
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#53
Toluene
Concen: 1.441 ppbv
RT: 6.936 min Scan# 2116
Delta R.T. 0.003 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion: 91 Resp: 63791
Ion Ratio Lower Upper
91 100
92 60.3 48.2 72.4





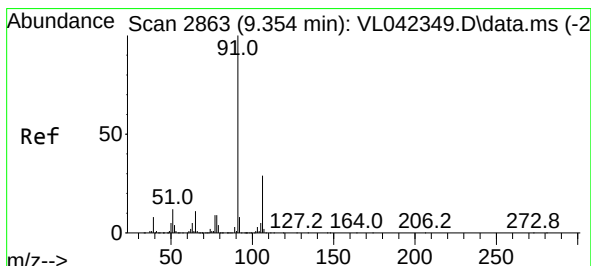
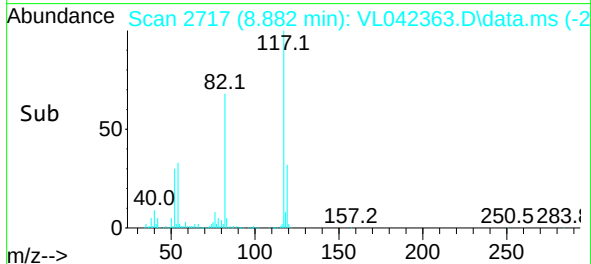
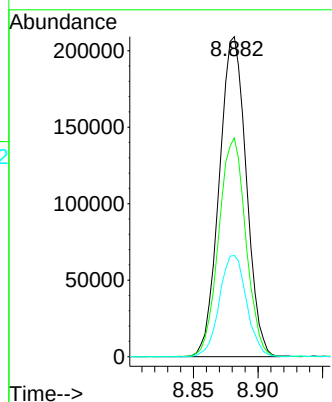
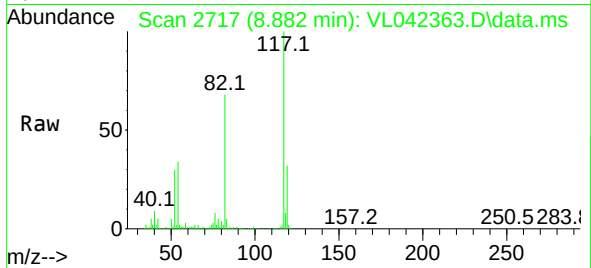
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2717
Delta R.T. -0.000 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

Tgt Ion: 117 Resp: 304398
Ion Ratio Lower Upper
117 100
82 68.4 57.8 86.6
119 31.9 25.2 37.8

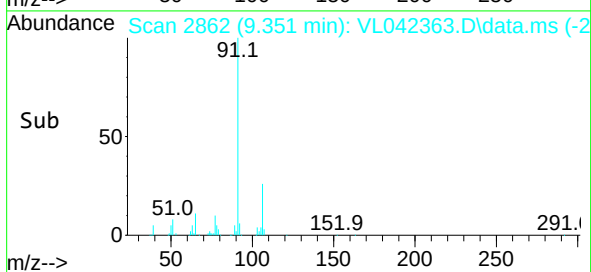
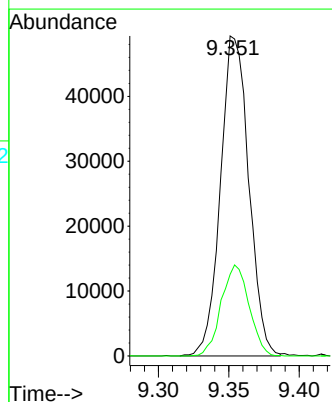
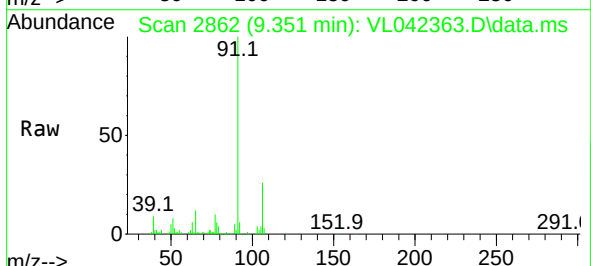
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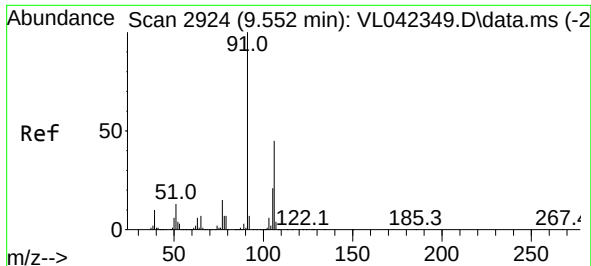
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#58
Ethyl Benzene
Concen: 1.147 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.003 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion: 91 Resp: 69152
Ion Ratio Lower Upper
91 100
106 25.5 23.0 34.4





#59

m/p-Xylene

Concen: 7.695 ppbv

RT: 9.529 min Scan# 2917

Delta R.T. -0.023 min

Lab File: VL042363.D

Acq: 17 Apr 2025 18:24

Instrument :

MSVOA_L

ClientSampleId :

IA-B1-3-3252025

Tgt Ion: 91 Resp: 37383

Ion Ratio Lower Upper

91 100

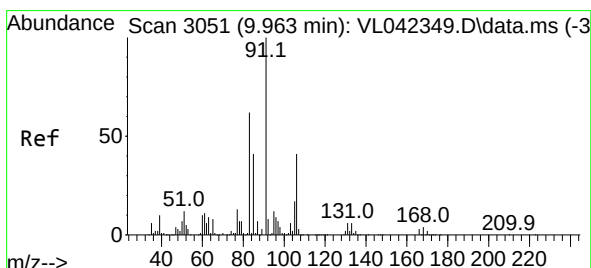
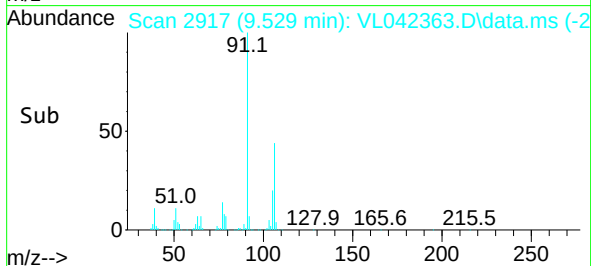
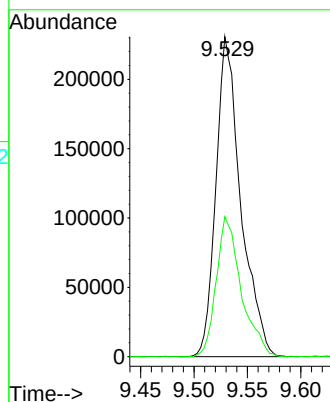
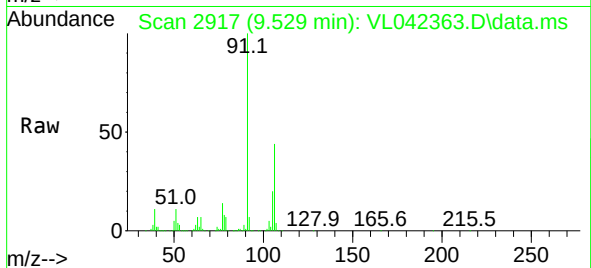
106 44.0 35.4 53.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#60

o-Xylene

Concen: 2.615 ppbv

RT: 9.966 min Scan# 3052

Delta R.T. 0.003 min

Lab File: VL042363.D

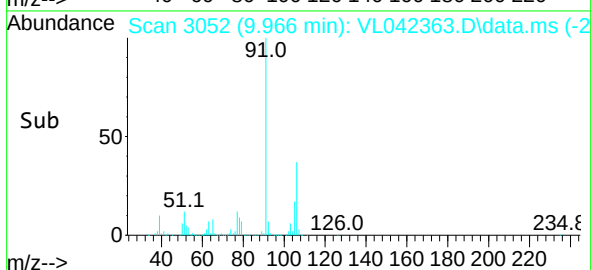
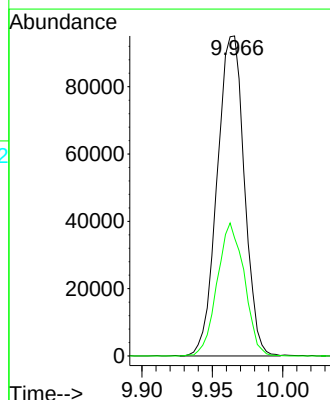
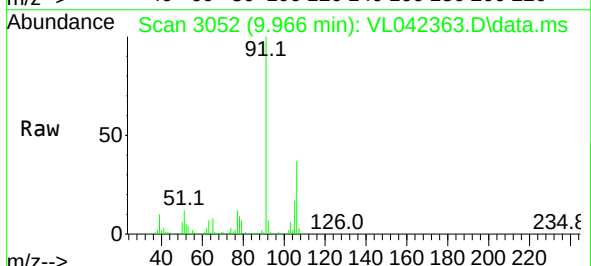
Acq: 17 Apr 2025 18:24

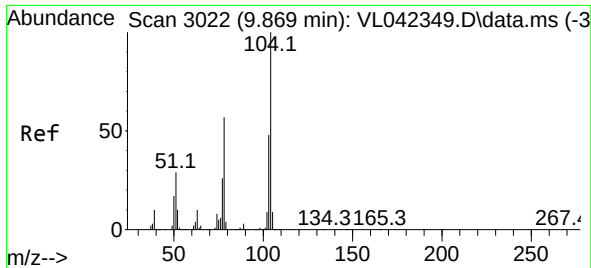
Tgt Ion: 91 Resp: 127919

Ion Ratio Lower Upper

91 100

106 41.4 21.1 63.4





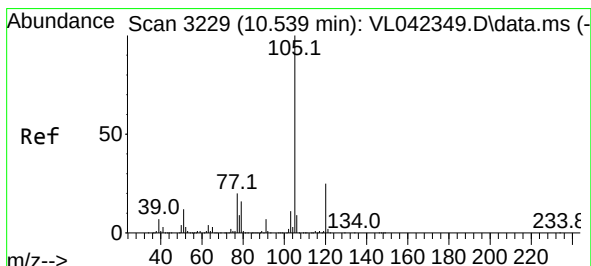
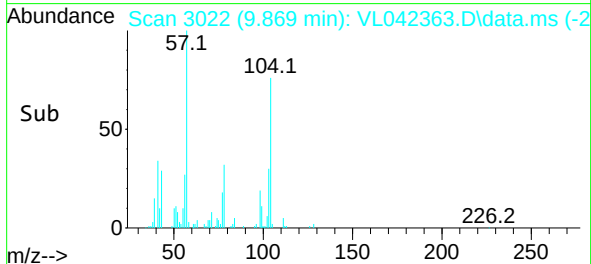
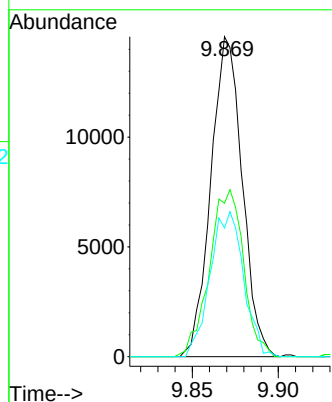
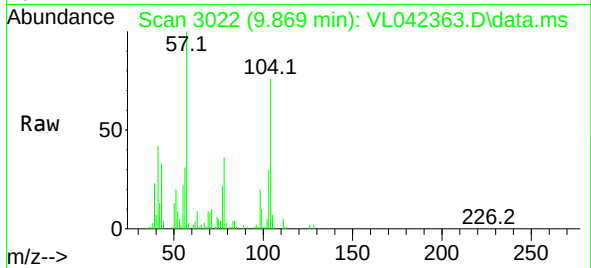
#61
Styrene
Concen: 0.791 ppbv
RT: 9.869 min Scan# 3022
Delta R.T. -0.000 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

Tgt Ion:104 Resp: 1846
Ion Ratio Lower Upper
104 100
78 56.7 44.6 66.8
103 48.3 37.4 56.0

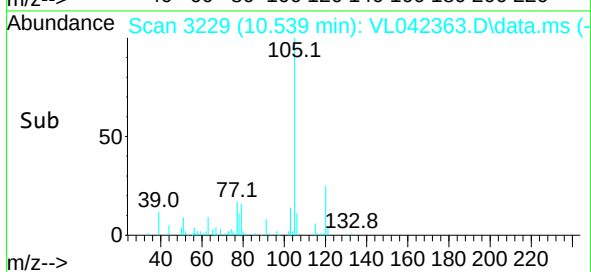
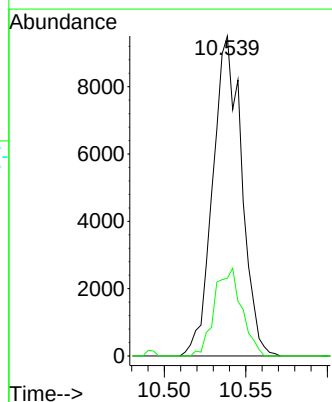
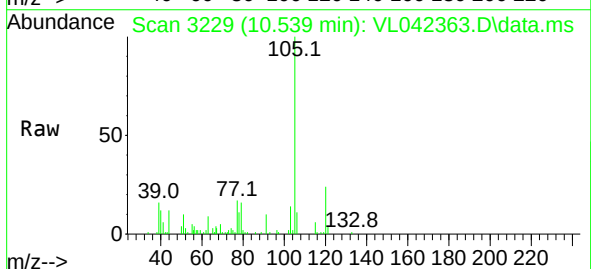
Manual Integrations
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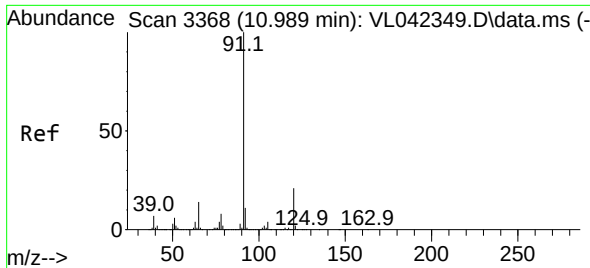
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#62
Isopropylbenzene
Concen: 0.163 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. -0.000 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion:105 Resp: 11682
Ion Ratio Lower Upper
105 100
120 25.8 19.8 29.8





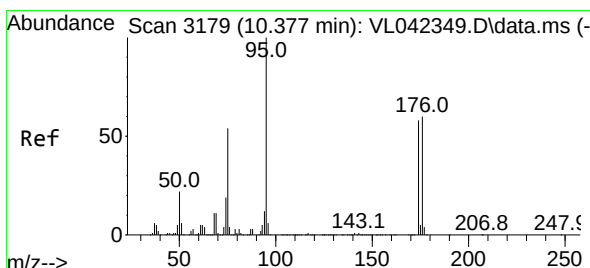
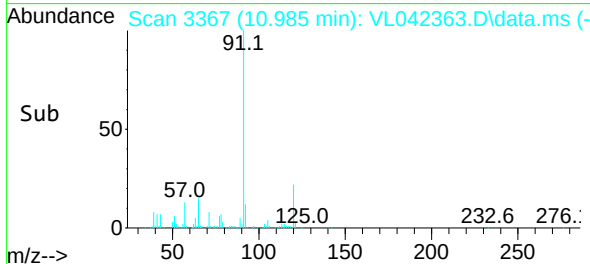
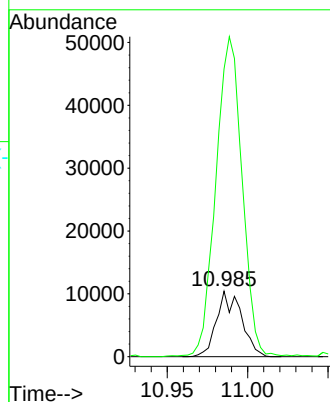
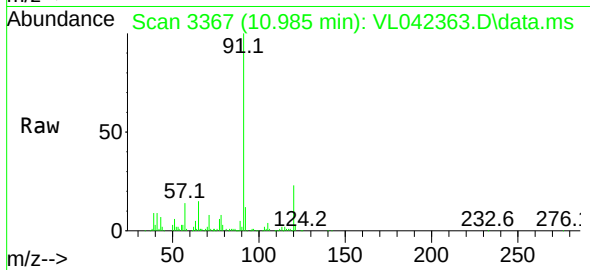
#64
n-propylbenzene
Concen: 0.620 ppbv m
RT: 10.985 min Scan# 3119
Delta R.T. -0.003 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

Tgt Ion:120 Resp: 1119
Ion Ratio Lower Upper
120 100
91 519.3 392.4 588.6

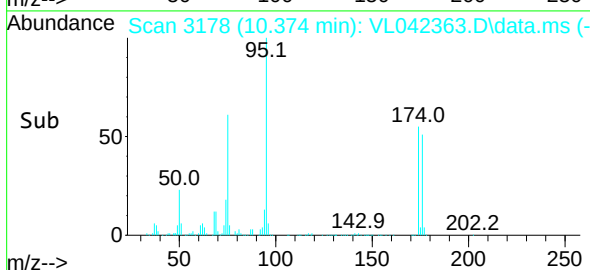
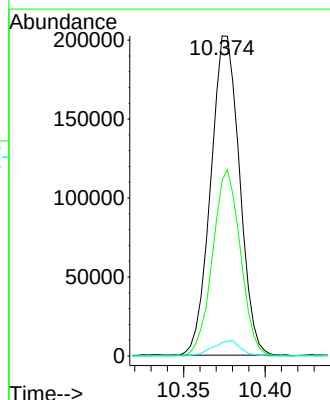
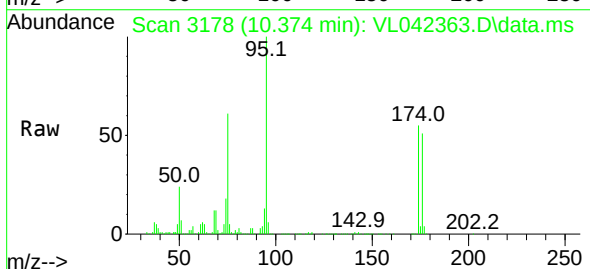
Manual Integrations
APPROVED

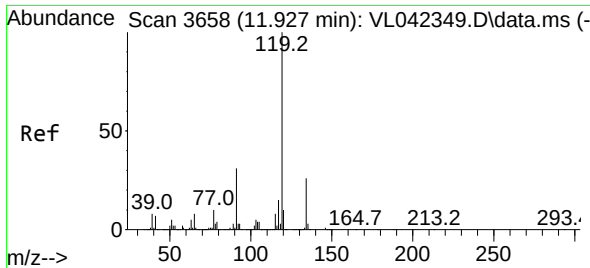
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.920 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. -0.003 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

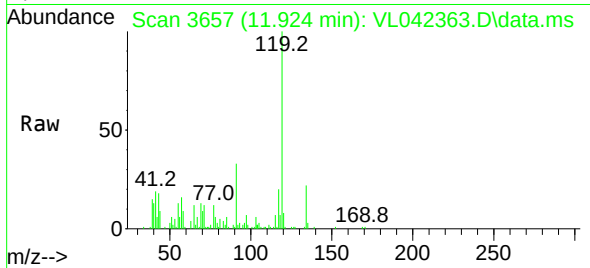
Tgt Ion: 95 Resp: 248134
Ion Ratio Lower Upper
95 100
174 56.5 48.5 72.7
175 4.6 3.7 5.5





#69
p-Isopropyltoluene
Concen: 0.116 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. -0.003 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

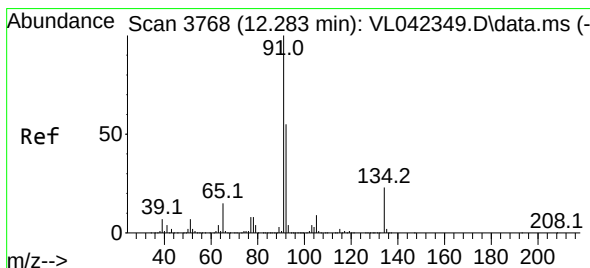
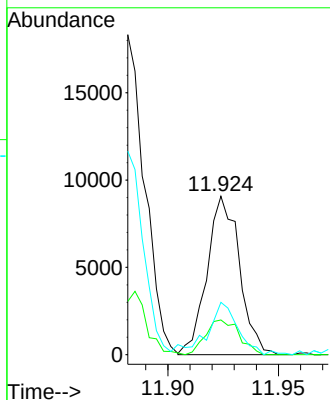
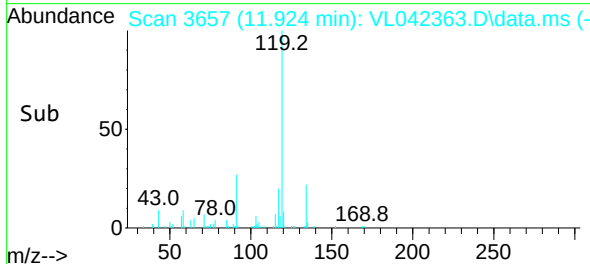
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025



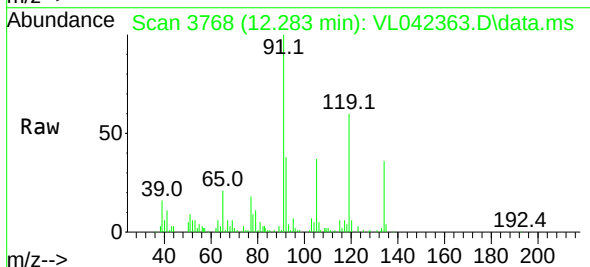
Tgt Ion: 119 Resp: 9270
Ion Ratio Lower Upper
119 100
134 22.6 20.0 30.0
91 31.0 24.4 36.6

Manual Integrations
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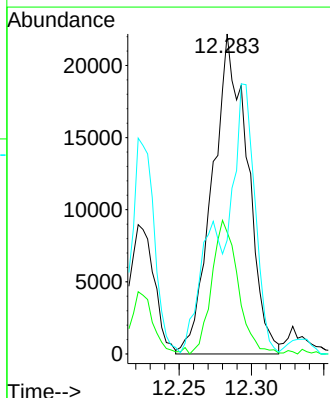
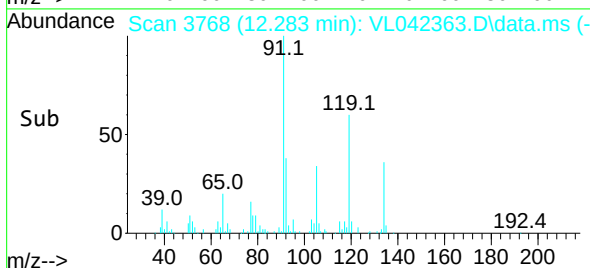
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

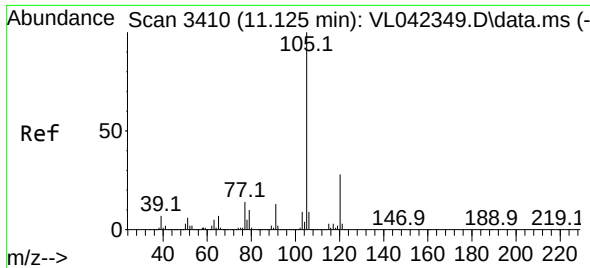


#70
n-Butylbenzene
Concen: 0.448 ppbv m
RT: 12.283 min Scan# 3768
Delta R.T. -0.000 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24



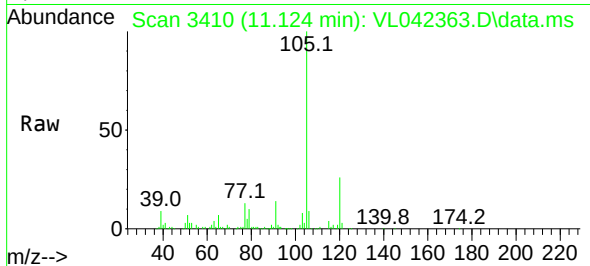
Tgt Ion: 91 Resp: 37242
Ion Ratio Lower Upper
91 100
92 32.2 44.2 66.4#
134 0.0 18.2 27.4#





#72
4-Ethyltoluene
Concen: 1.390 ppbv
RT: 11.124 min Scan# 3410
Delta R.T. -0.000 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

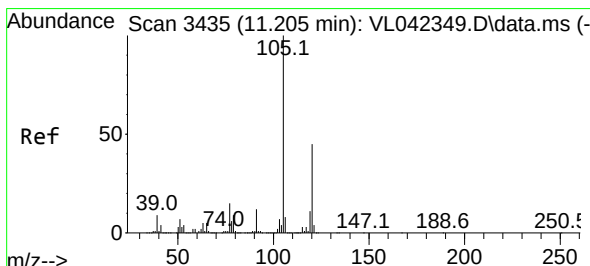
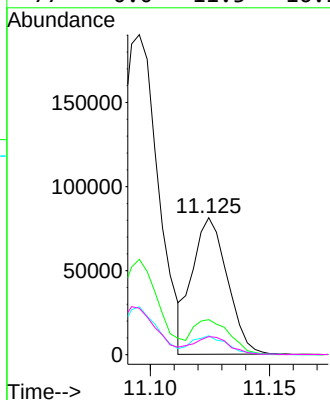
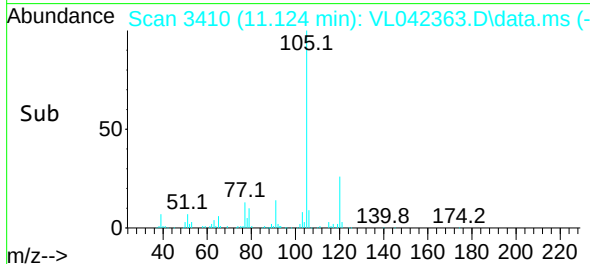
Instrument : MSVOA_L
ClientSampleId : IA-B1-3-3252025



Tgt Ion:105 Resp: 8312
Ion Ratio Lower Upper
105 100
120 0.0 23.2 34.8
91 0.0 10.4 15.6
77 0.0 11.3 16.9

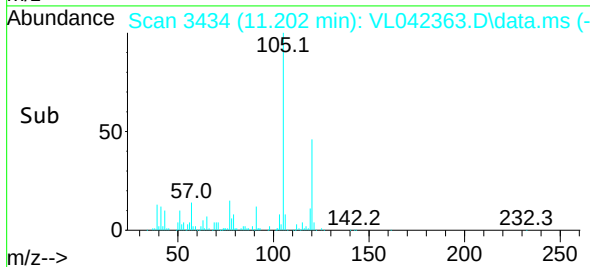
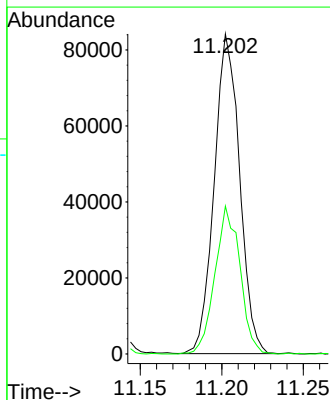
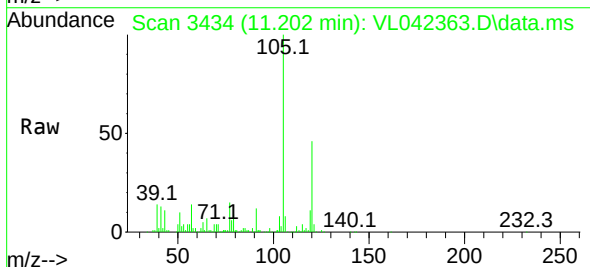
Manual Integrations
APPROVED

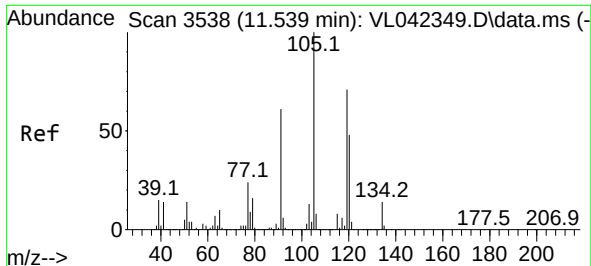
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#73
1,3,5-Trimethylbenzene
Concen: 1.724 ppbv
RT: 11.202 min Scan# 3434
Delta R.T. -0.003 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

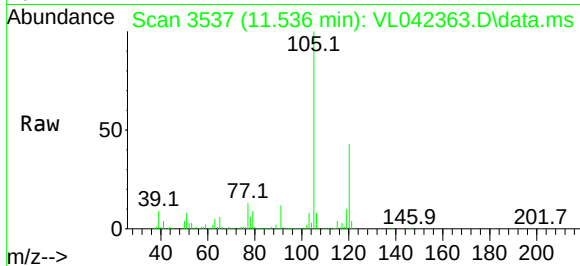
Tgt Ion:105 Resp: 91013
Ion Ratio Lower Upper
105 100
120 46.2 35.6 53.4





#74
1,2,4-Trimethylbenzene
Concen: 5.205 ppbv
RT: 11.536 min Scan# 3538
Delta R.T. -0.003 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

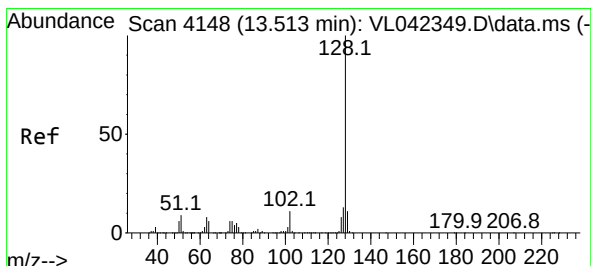
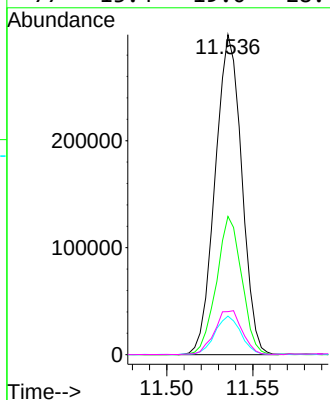
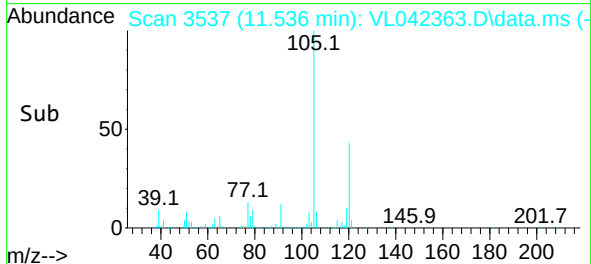
Instrument : MSVOA_L
ClientSampleId : IA-B1-3-3252025



Tgt Ion:105 Resp: 32103
Ion Ratio Lower Upper
105 100
120 43.2 38.1 57.1
91 12.0 48.8 73.2
77 13.4 19.0 28.4#

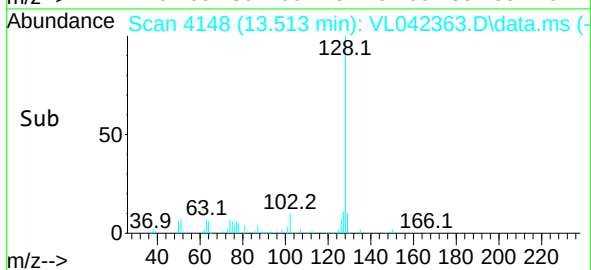
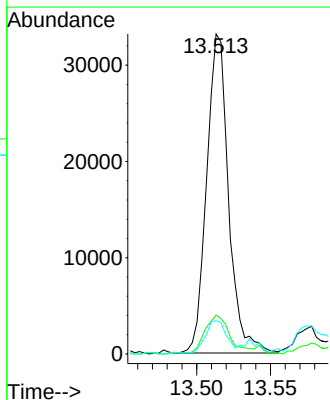
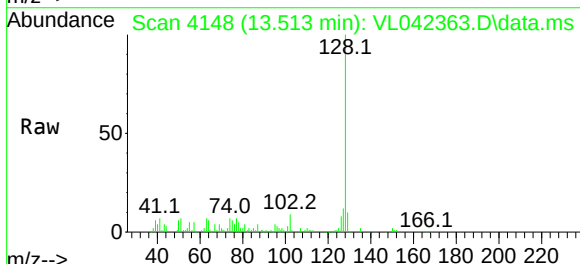
Manual Integrations
APPROVED

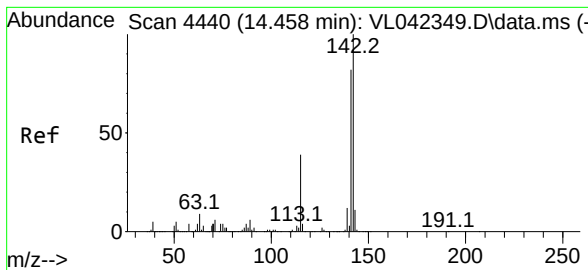
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#79
Naphthalene
Concen: 0.465 ppbv
RT: 13.513 min Scan# 4148
Delta R.T. -0.000 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

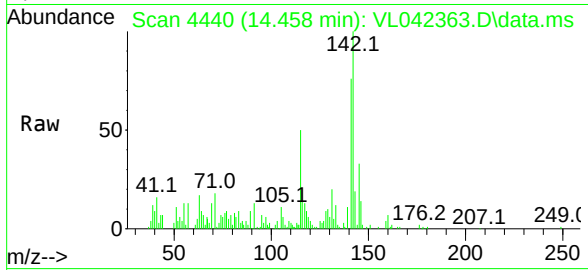
Tgt Ion:128 Resp: 34268
Ion Ratio Lower Upper
128 100
127 11.8 10.6 15.8
129 10.0 8.6 12.8





#80
Naphthalene, 2-methyl-
Concen: 0.321 ppbv m
RT: 14.458 min Scan# 44
Delta R.T. -0.000 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

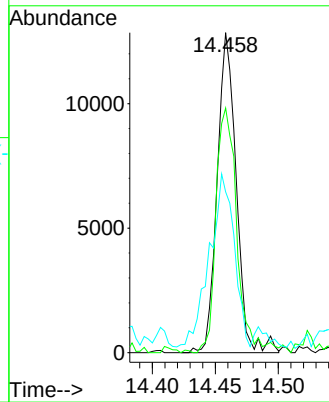
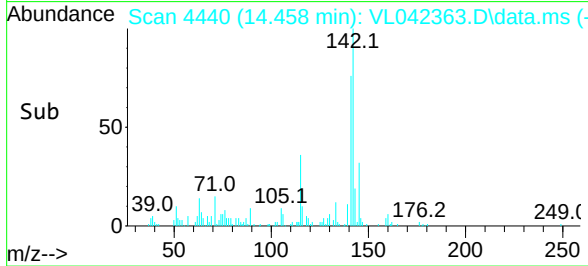
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025



Tgt Ion:142 Resp: 13508
Ion Ratio Lower Upper
142 100
141 53.2 66.8 100.2
115 29.7 33.4 50.2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042363.D
 Acq On : 17 Apr 2025 18:24
 Operator : SY/MD
 Sample : Q1668-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B1-3-3252025

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 3

Min Area: 3 % of largest Peak

Start Thrs: 0.001

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

Signal : TIC: VL042363.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.431	410	415	420	rBV	4164753	4711012	100.00%	17.819%
2	1.557	450	454	459	rBV2	137441	80270	1.70%	0.304%
3	1.719	500	504	511	rVB	730617	455138	9.66%	1.722%
4	1.835	535	540	547	rBV2	219139	216042	4.59%	0.817%
5	1.887	549	556	560	rBV2	65548	55908	1.19%	0.211%
6	1.962	575	579	584	rBV	96219	63837	1.36%	0.241%
7	2.059	599	609	613	rBV3	44647	47708	1.01%	0.180%
8	2.473	732	737	744	rVB	88715	86938	1.85%	0.329%
9	2.622	775	783	792	rVB2	59124	65772	1.40%	0.249%
10	2.787	825	834	840	rBV	441803	454636	9.65%	1.720%
11	2.826	840	846	858	rVB	181776	201973	4.29%	0.764%
12	3.230	961	971	980	rVB2	59589	81524	1.73%	0.308%
13	3.654	1091	1102	1110	rBV3	32874	54778	1.16%	0.207%
14	3.855	1151	1164	1175	rBV5	95622	160629	3.41%	0.608%
15	3.955	1184	1195	1211	rBV	586363	930875	19.76%	3.521%
16	4.049	1211	1224	1233	rVV2	123441	222391	4.72%	0.841%
17	4.095	1233	1238	1249	rVB4	52431	85510	1.82%	0.323%
18	4.266	1276	1291	1305	rVB4	144344	288179	6.12%	1.090%
19	4.444	1334	1346	1358	rBV6	31083	58902	1.25%	0.223%
20	4.519	1358	1369	1377	rBV9	27490	63579	1.35%	0.240%
21	4.596	1383	1393	1401	rVB3	35659	59147	1.26%	0.224%
22	4.978	1498	1511	1527	rVB4	82255	178654	3.79%	0.676%
23	5.668	1699	1724	1737	rBV6	62779	173172	3.68%	0.655%
24	5.748	1737	1749	1776	rVV2	731654	1834769	38.95%	6.940%
25	6.936	2102	2116	2127	rBV3	88550	182982	3.88%	0.692%
26	7.613	2309	2325	2326	rBV6	30842	50187	1.07%	0.190%
27	8.302	2531	2538	2555	rVB8	48472	112273	2.38%	0.425%
28	8.882	2701	2717	2727	rBV	766776	1157964	24.58%	4.380%
29	8.982	2740	2748	2762	rVB8	49326	98722	2.10%	0.373%
30	9.144	2790	2798	2812	rVB3	53109	83167	1.77%	0.315%
31	9.354	2852	2863	2875	rBV2	119959	200501	4.26%	0.758%
32	9.529	2907	2917	2934	rVB	661888	1112755	23.62%	4.209%
33	9.629	2934	2948	2965	rVV	216386	345405	7.33%	1.306%
34	9.730	2965	2979	2991	rVB6	107173	247258	5.25%	0.935%
35	9.859	3006	3019	3031	rBV5	141249	254982	5.41%	0.964%
36	9.963	3041	3051	3062	rBV	275078	388323	8.24%	1.469%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042363.D
 Acq On : 17 Apr 2025 18:24
 Operator : SY/MD
 Sample : Q1668-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B1-3-3252025

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 3

Min Area: 3 % of largest Peak

Start Thrs: 0.001

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

37	10.098	3088	3093	3100	rVB4	64114	86459	1.84%	0.327%
38	10.377	3156	3179	3188	rBV3	952202	1431484	30.39%	5.414%
39	10.432	3188	3196	3205	rVB3	53312	71440	1.52%	0.270%
40	10.768	3288	3300	3305	rBV4	56788	88861	1.89%	0.336%

41	10.856	3321	3327	3334	rVB3	74531	92674	1.97%	0.351%
42	10.901	3334	3341	3349	rVB4	62483	81270	1.73%	0.307%
43	10.989	3353	3368	3382	rBV3	126524	221476	4.70%	0.838%
44	11.095	3394	3401	3406	rBV	514012	565072	11.99%	2.137%
45	11.125	3406	3410	3421	rVB	214390	244587	5.19%	0.925%

46	11.202	3421	3434	3442	rBV2	312620	373334	7.92%	1.412%
47	11.257	3442	3451	3454	rBV	69952	79345	1.68%	0.300%
48	11.280	3454	3458	3463	rVV2	104077	106039	2.25%	0.401%
49	11.312	3463	3468	3472	rVV2	102205	118693	2.52%	0.449%
50	11.335	3472	3475	3481	rVB2	150460	152071	3.23%	0.575%

51	11.403	3489	3496	3501	rBV2	124820	135984	2.89%	0.514%
52	11.536	3528	3537	3547	rBV	868083	972301	20.64%	3.678%
53	11.591	3547	3554	3566	rVB5	50240	86331	1.83%	0.327%
54	11.727	3583	3596	3598	rBV3	65833	88532	1.88%	0.335%
55	11.752	3598	3604	3619	rVB2	316329	416809	8.85%	1.577%

56	11.879	3637	3643	3650	rVB2	254787	269740	5.73%	1.020%
57	12.018	3677	3686	3690	rBV2	152441	186499	3.96%	0.705%
58	12.040	3690	3693	3703	rVB5	84407	89240	1.89%	0.338%
59	12.096	3703	3710	3717	rVB7	44392	54472	1.16%	0.206%
60	12.170	3727	3733	3737	rBV4	55377	59427	1.26%	0.225%

61	12.196	3737	3741	3744	rVV2	68774	62318	1.32%	0.236%
62	12.225	3744	3750	3757	rVB	215051	224174	4.76%	0.848%
63	12.270	3757	3764	3767	rBV2	82846	94784	2.01%	0.359%
64	12.296	3767	3772	3777	rVB2	168737	171441	3.64%	0.648%
65	12.403	3794	3805	3811	rBV3	139767	163836	3.48%	0.620%

66	12.439	3811	3816	3822	rVB3	85146	85487	1.81%	0.323%
67	12.477	3822	3828	3832	rBV2	88837	92790	1.97%	0.351%
68	12.503	3832	3836	3840	rBV2	130502	131254	2.79%	0.496%
69	12.545	3845	3849	3855	rVB3	142079	142135	3.02%	0.538%
70	12.591	3855	3863	3872	rBV4	220691	313084	6.65%	1.184%

71	12.668	3877	3887	3893	rBV7	53329	77380	1.64%	0.293%
72	12.827	3930	3936	3942	rVB2	282152	262228	5.57%	0.992%
73	12.859	3942	3946	3955	rVB7	40575	54660	1.16%	0.207%
74	12.918	3955	3964	3969	rBV2	110992	130273	2.77%	0.493%
75	12.950	3969	3974	3982	rVV	143826	146120	3.10%	0.553%

76	13.002	3984	3990	4002	rVB8	84226	132331	2.81%	0.501%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042363.D
 Acq On : 17 Apr 2025 18:24
 Operator : SY/MD
 Sample : Q1668-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B1-3-3252025

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 3

Min Area: 3 % of largest Peak

Start Thrs: 0.001

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

77	13.102	4016	4021	4023	rBV3	58961	53065	1.13%	0.201%
78	13.128	4023	4029	4035	rVB2	124649	136499	2.90%	0.516%
79	13.167	4035	4041	4046	rBV4	91535	98329	2.09%	0.372%
80	13.225	4053	4059	4063	rBV	153799	165182	3.51%	0.625%
81	13.251	4063	4067	4075	rVB6	96366	124067	2.63%	0.469%
82	13.332	4085	4092	4102	rBV6	163805	224548	4.77%	0.849%
83	13.387	4102	4109	4115	rVB4	119064	137234	2.91%	0.519%
84	13.423	4115	4120	4125	rBV6	74247	90169	1.91%	0.341%
85	13.513	4143	4148	4153	rBV	59545	61169	1.30%	0.231%
86	13.578	4161	4168	4169	rBV3	67895	60969	1.29%	0.231%
87	13.591	4169	4172	4177	rVB7	74704	69032	1.47%	0.261%
88	13.662	4184	4194	4205	rVB6	117000	209215	4.44%	0.791%
89	13.727	4205	4214	4220	rBV2	227034	237426	5.04%	0.898%
90	13.830	4235	4246	4251	rBV3	72576	100629	2.14%	0.381%
91	13.898	4260	4267	4272	rVB8	50528	68353	1.45%	0.259%
92	13.979	4281	4292	4298	rBV8	39717	52368	1.11%	0.198%
93	14.109	4320	4332	4344	rVB8	55012	131914	2.80%	0.499%
94	14.235	4361	4371	4387	rVB7	113249	210659	4.47%	0.797%
95	14.338	4398	4403	4410	rBV4	65653	76845	1.63%	0.291%
96	14.452	4430	4438	4445	rBV5	76411	114130	2.42%	0.432%
97	14.523	4454	4460	4472	rVB2	156795	177895	3.78%	0.673%
98	14.588	4472	4480	4484	rBV7	38659	49095	1.04%	0.186%
99	14.665	4494	4504	4515	rBV5	86075	133695	2.84%	0.506%
100	14.788	4532	4542	4551	rVB2	83951	110417	2.34%	0.418%
101	14.892	4566	4574	4581	rVB6	34870	56350	1.20%	0.213%
102	14.934	4581	4587	4591	rBV6	39288	51392	1.09%	0.194%
103	15.109	4633	4641	4648	rVB6	40823	61580	1.31%	0.233%
104	15.242	4672	4682	4691	rVB5	85795	101266	2.15%	0.383%
105	15.585	4782	4788	4798	rVB10	36420	52638	1.12%	0.199%

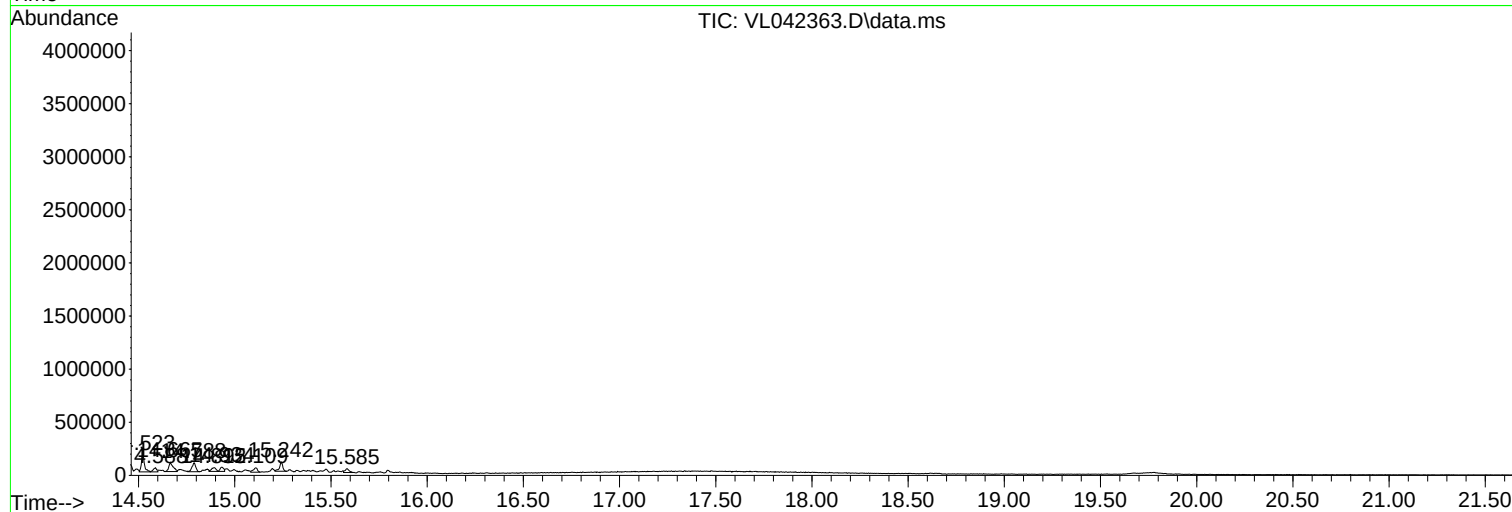
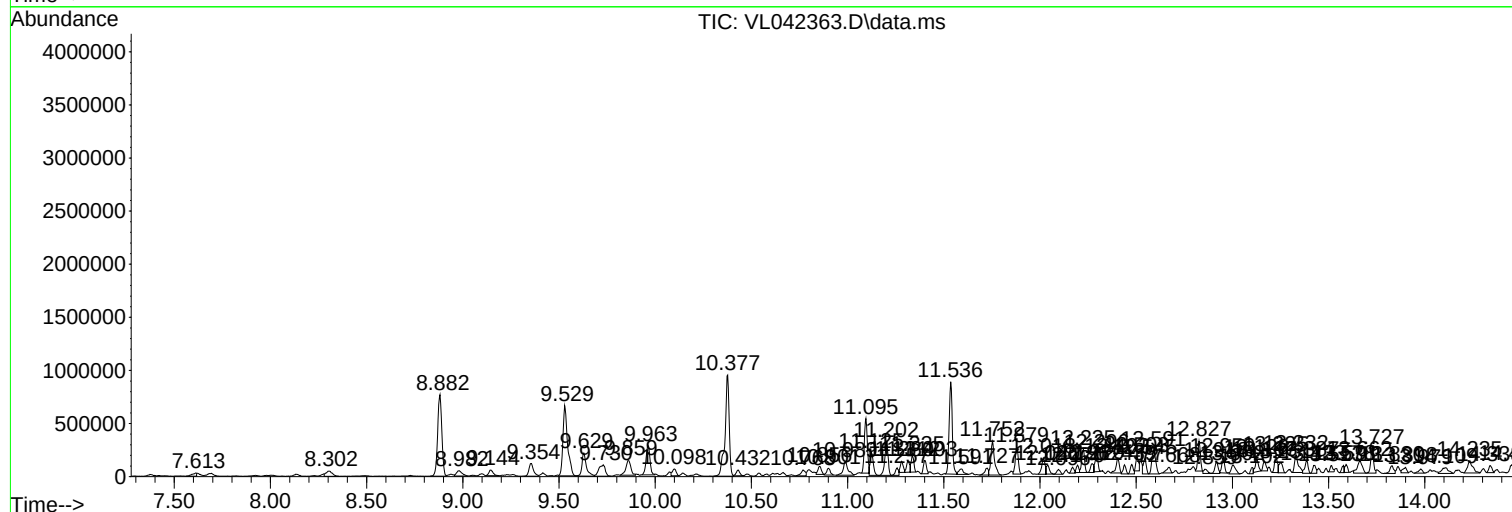
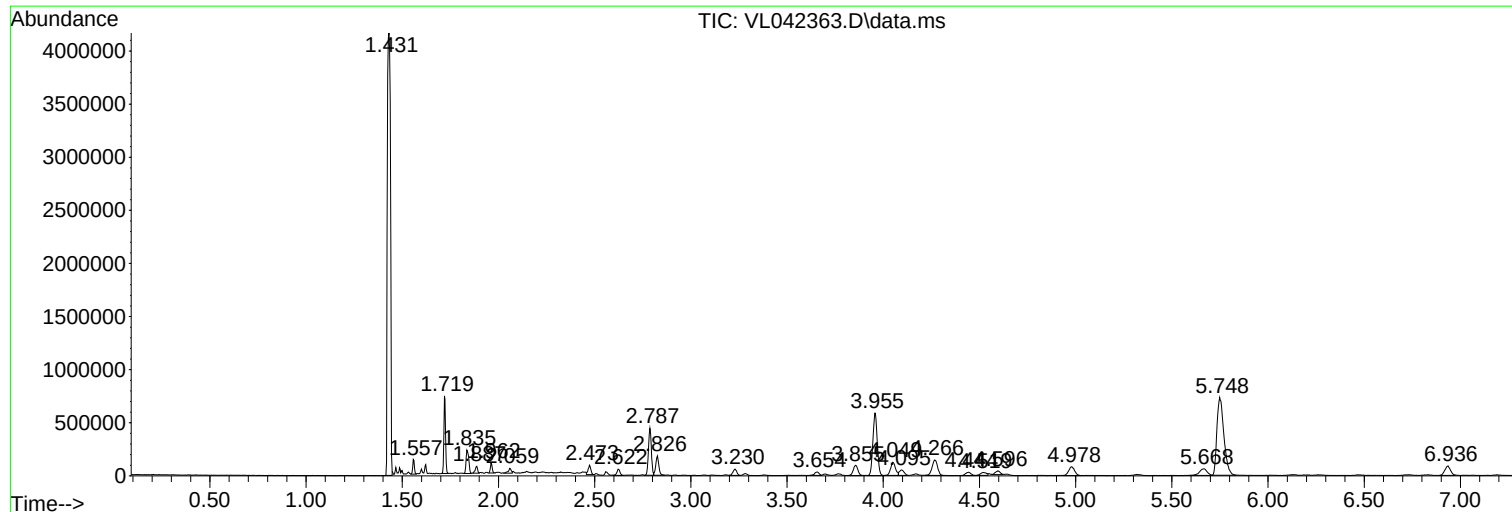
Sum of corrected areas: 26438427

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042363.D
Acq On : 17 Apr 2025 18:24
Operator : SY/MD
Sample : Q1668-03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042363.D
Acq On : 17 Apr 2025 18:24
Operator : SY/MD
Sample : Q1668-03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

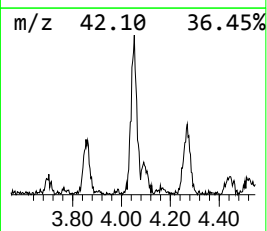
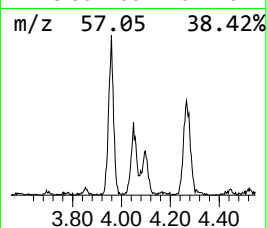
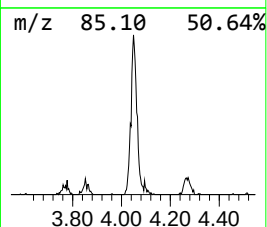
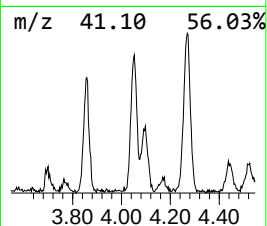
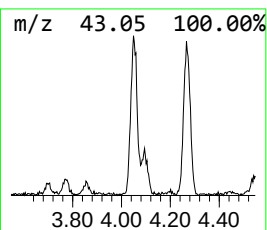
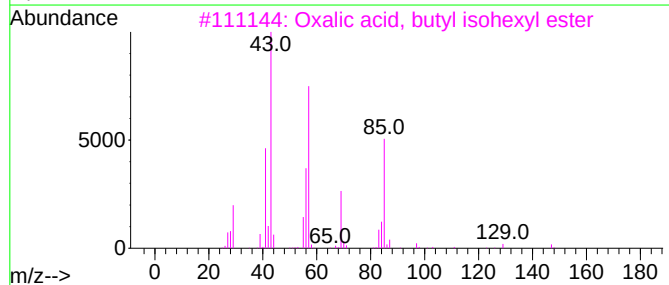
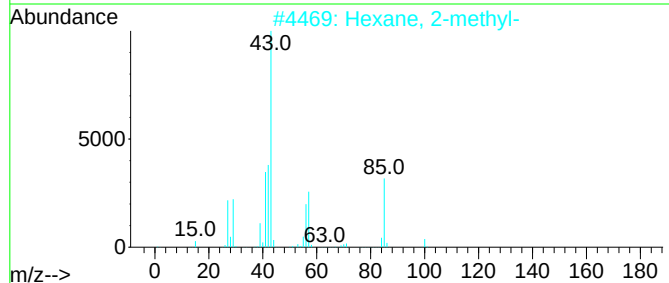
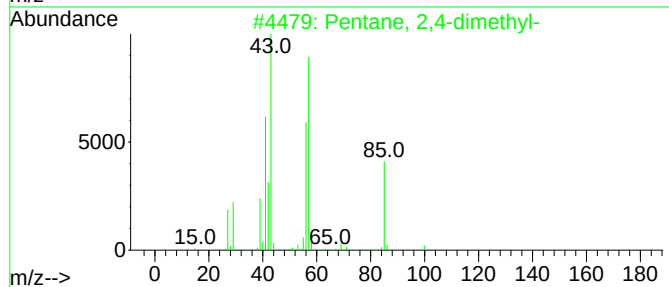
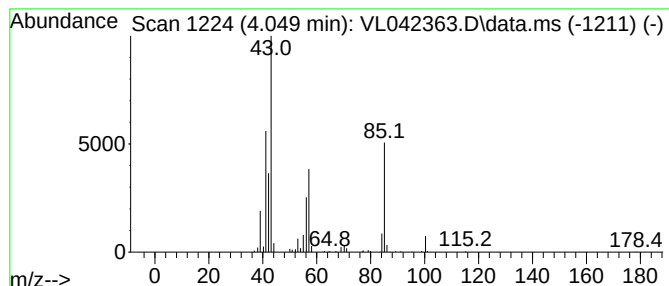
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 1 Pentane, 2,4-dimethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.049	2.39 ppbv	222391	1,4-Difluorobenzene	3.959

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	80
2			Hexane, 2-methyl-	100	C7H16	000591-76-4	74
3			Oxalic acid, butyl isohexyl ester	230	C12H22O4	1000309-32-7	64
4			Oxalic acid, diisohexyl ester	258	C14H26O4	1010309-32-9	64
5			Heptane, 3-methyl-	114	C8H18	000589-81-1	53



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042363.D
Acq On : 17 Apr 2025 18:24
Operator : SY/MD
Sample : Q1668-03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

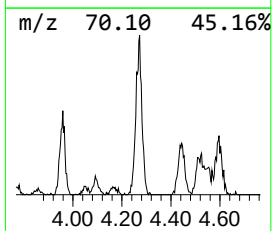
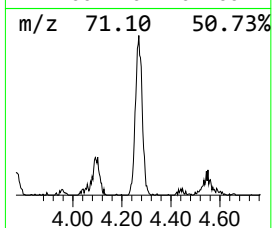
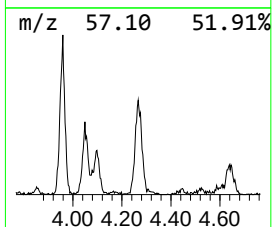
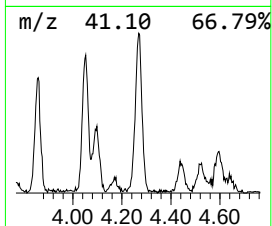
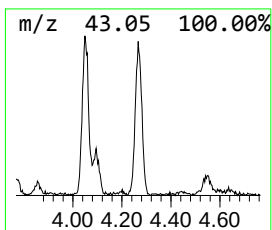
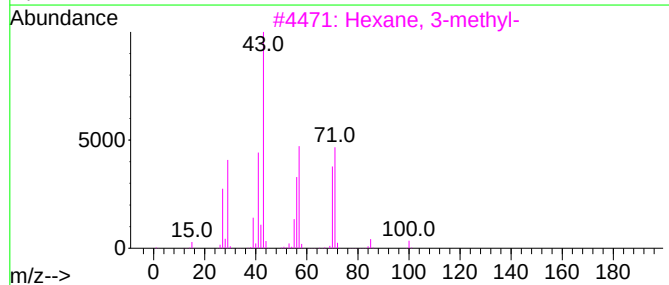
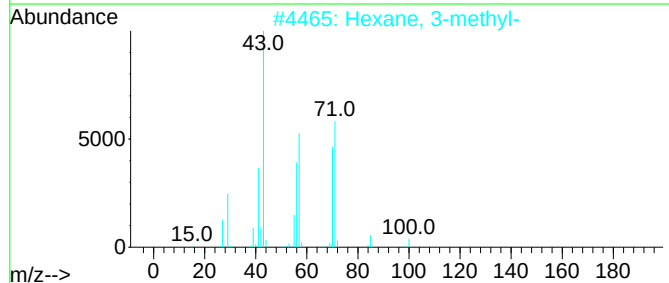
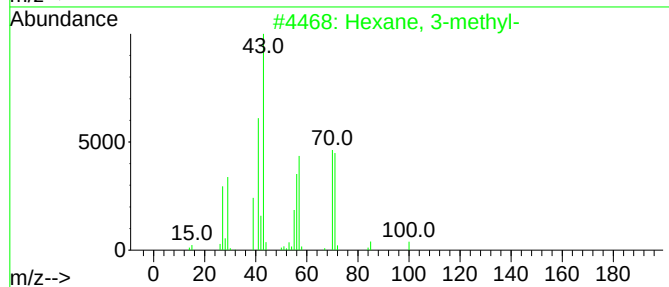
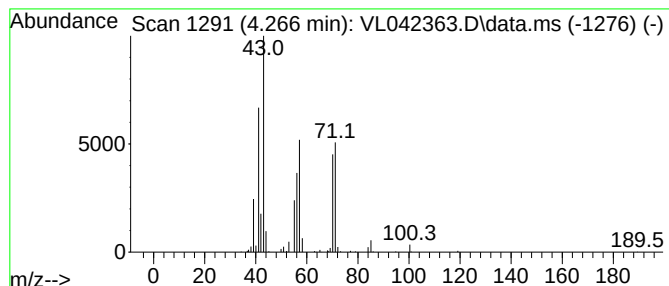
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Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 2 Hexane, 3-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.266	3.10 ppbv	288179	1,4-Difluorobenzene	3.959

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Hexane, 3-methyl-	100	C7H16	000589-34-4	91
2			Hexane, 3-methyl-	100	C7H16	000589-34-4	87
3			Hexane, 3-methyl-	100	C7H16	000589-34-4	86
4			Heptane, 3,4-dimethyl-	128	C9H20	000922-28-1	59
5			Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	59



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042363.D
Acq On : 17 Apr 2025 18:24
Operator : SY/MD
Sample : Q1668-03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

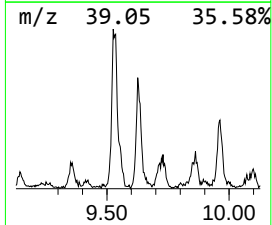
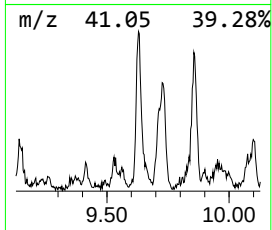
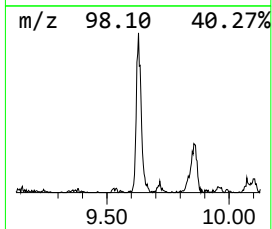
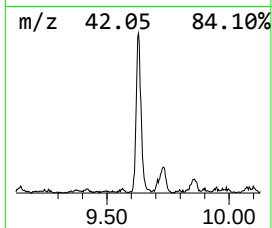
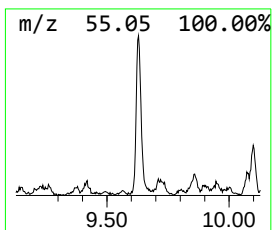
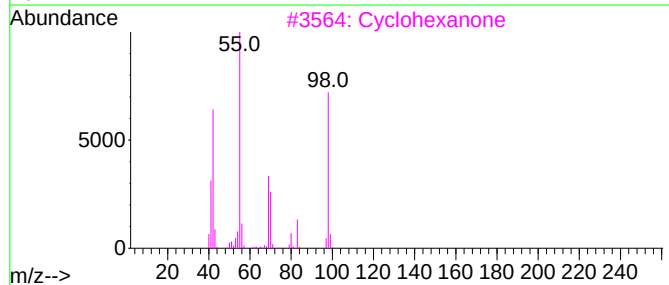
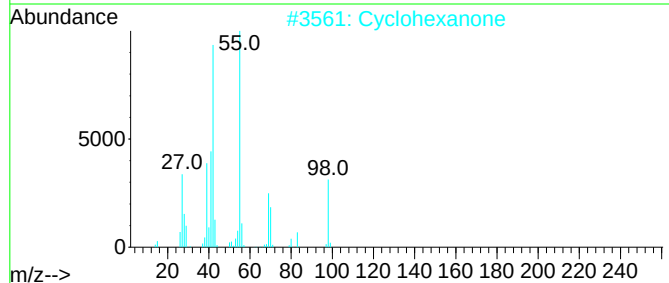
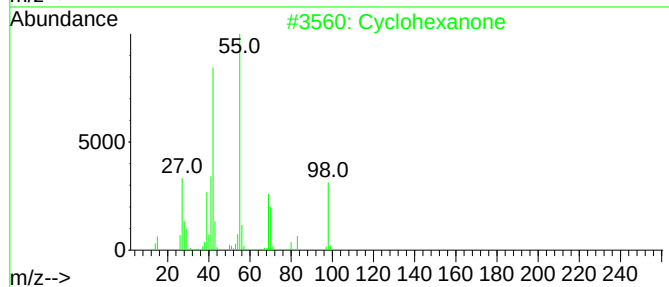
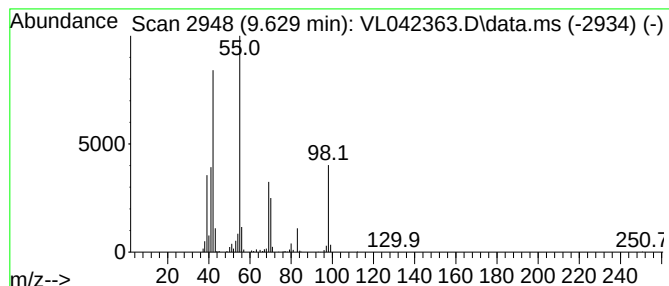
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Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 3 Cyclohexanone Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.629	2.98 ppbv	345405	Chlorobenzene-d5	8.882

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Cyclohexanone	98	C6H10O	000108-94-1	94
2			Cyclohexanone	98	C6H10O	000108-94-1	91
3			Cyclohexanone	98	C6H10O	000108-94-1	91
4			Cyclohexanone	98	C6H10O	000108-94-1	91
5			Cyclohexanone	98	C6H10O	000108-94-1	91



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042363.D
Acq On : 17 Apr 2025 18:24
Operator : SY/MD
Sample : Q1668-03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

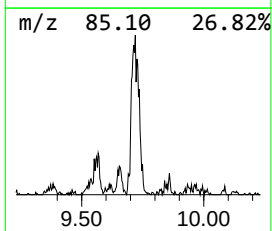
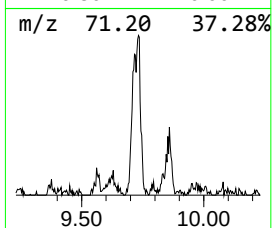
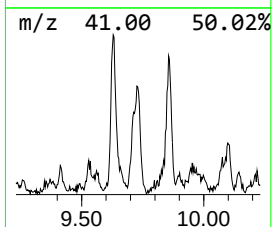
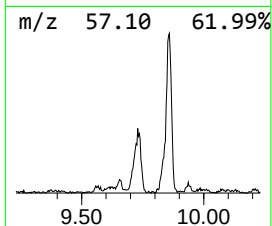
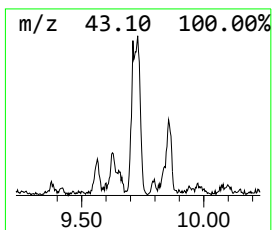
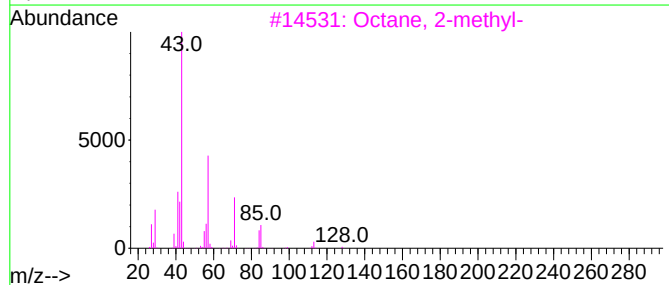
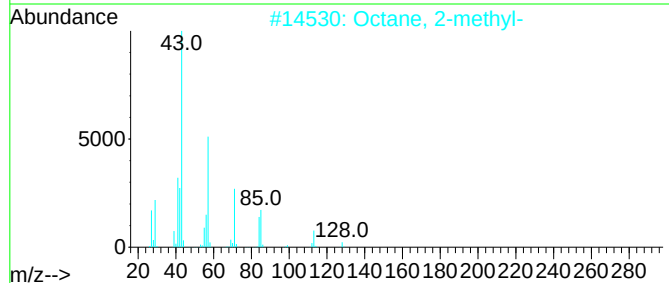
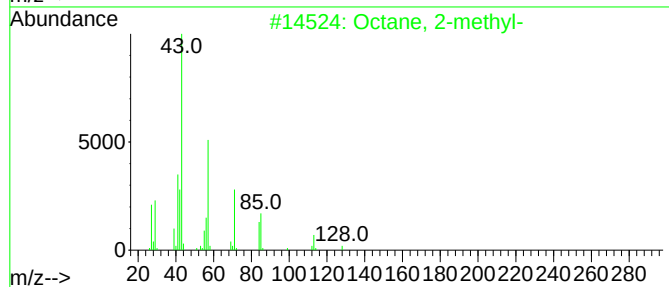
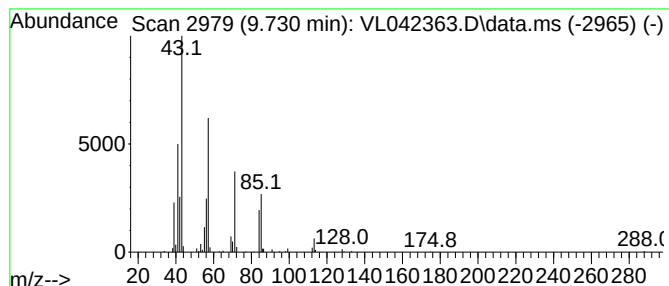
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Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 4 Octane, 2-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.730	2.14 ppbv	247258	Chlorobenzene-d5	8.882

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Octane, 2-methyl-	128	C9H20	003221-61-2	90
2			Octane, 2-methyl-	128	C9H20	003221-61-2	90
3			Octane, 2-methyl-	128	C9H20	003221-61-2	87
4			Heptane, 2,6-dimethyl-	128	C9H20	001072-05-5	72
5			Heptane, 2,6-dimethyl-	128	C9H20	001072-05-5	58



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042363.D
Acq On : 17 Apr 2025 18:24
Operator : SY/MD
Sample : Q1668-03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

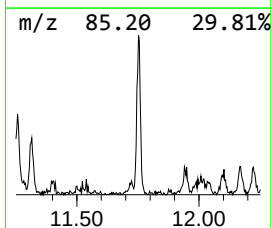
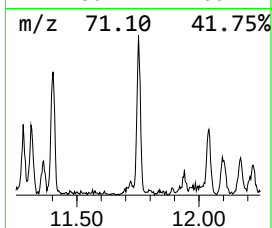
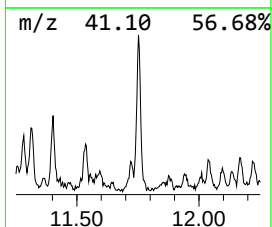
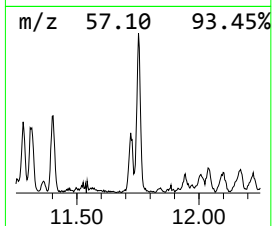
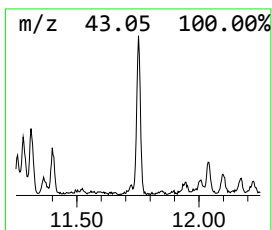
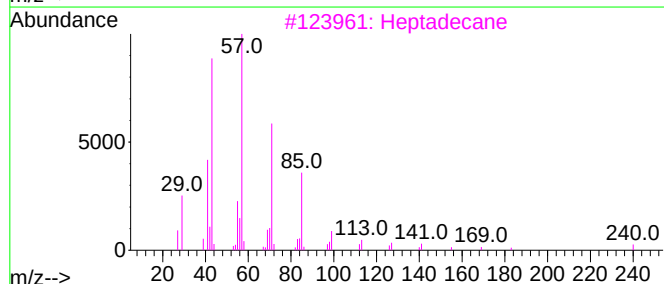
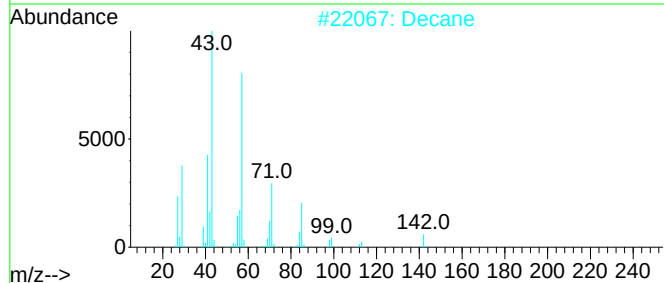
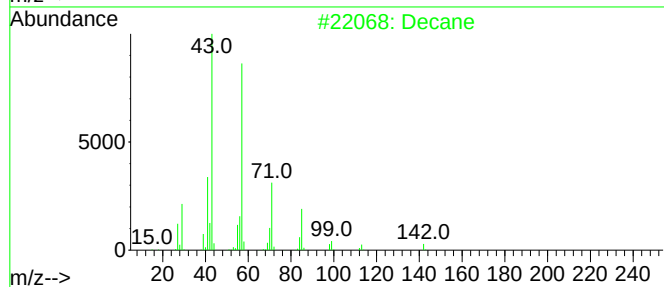
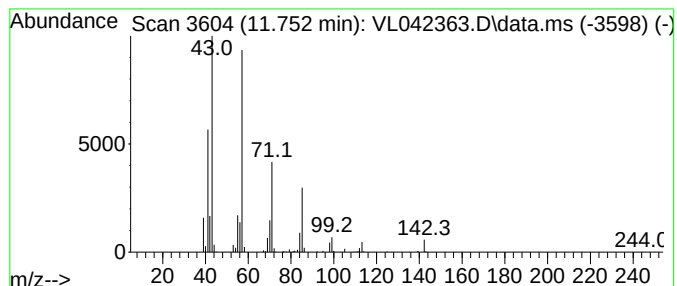
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Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 5 Decane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.752	3.60 ppbv	416809	Chlorobenzene-d5	8.882

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Decane	142	C10H22	000124-18-5	91
2			Decane	142	C10H22	000124-18-5	90
3			Heptadecane	240	C17H36	000629-78-7	83
4			Tridecane	184	C13H28	000629-50-5	80
5			Sulfurous acid, pentadecyl 2-pro...	334	C18H38O3S	1000309-12-6	78



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042363.D
Acq On : 17 Apr 2025 18:24
Operator : SY/MD
Sample : Q1668-03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

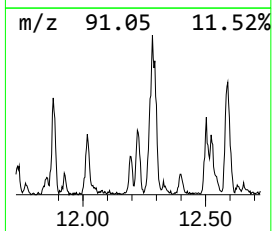
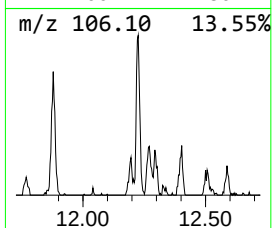
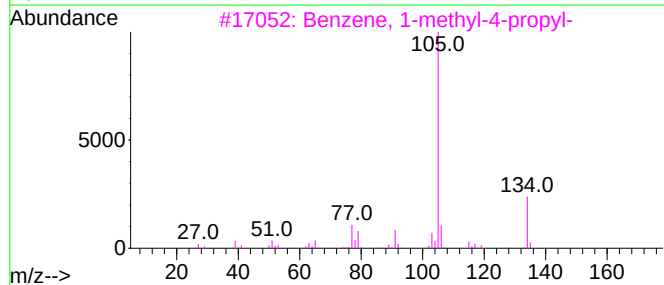
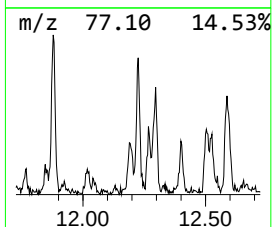
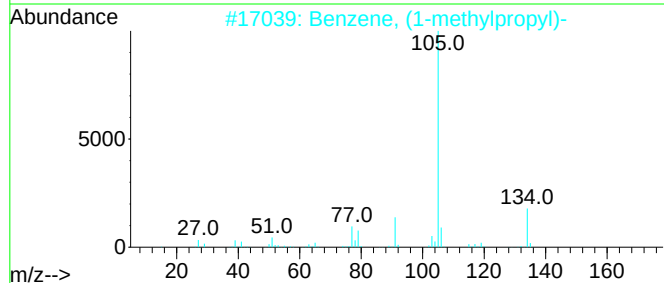
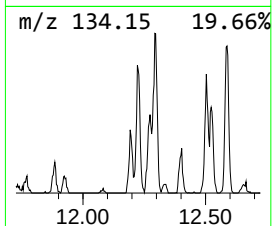
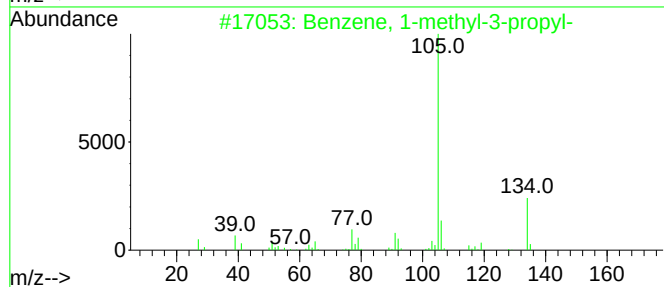
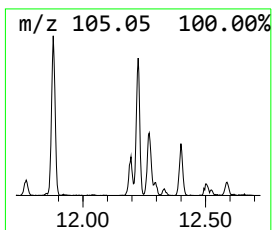
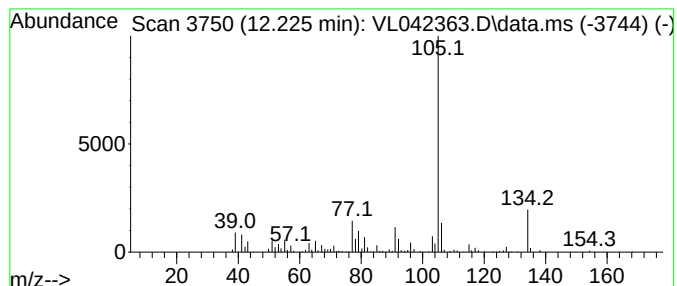
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 6 Benzene, 1-methyl-3-propyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.225	1.94 ppbv	224174	Chlorobenzene-d5	8.882

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzene, 1-methyl-3-propyl-	134	C10H14	001074-43-7	91
2			Benzene, (1-methylpropyl)-	134	C10H14	000135-98-8	90
3			Benzene, 1-methyl-4-propyl-	134	C10H14	001074-55-1	90
4			Benzene, (1-methylpropyl)-	134	C10H14	000135-98-8	90
5			Benzene, 1-methyl-3-propyl-	134	C10H14	001074-43-7	90



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042363.D
Acq On : 17 Apr 2025 18:24
Operator : SY/MD
Sample : Q1668-03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

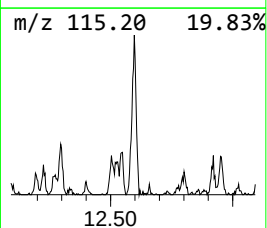
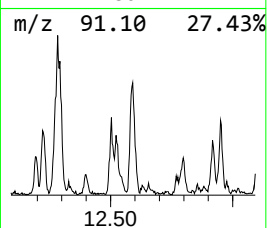
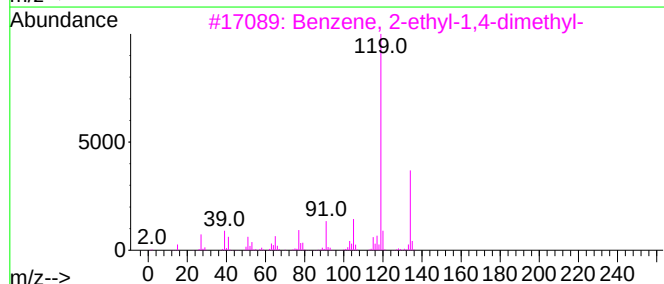
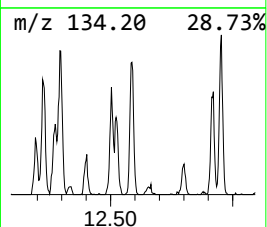
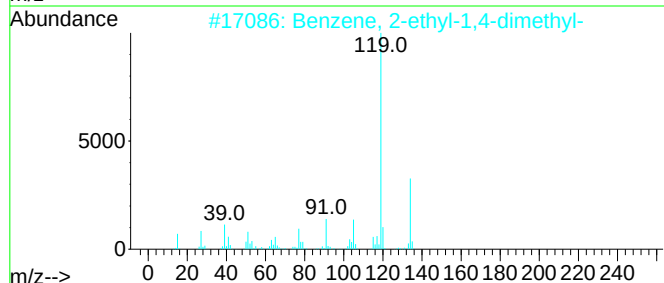
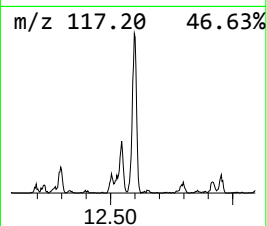
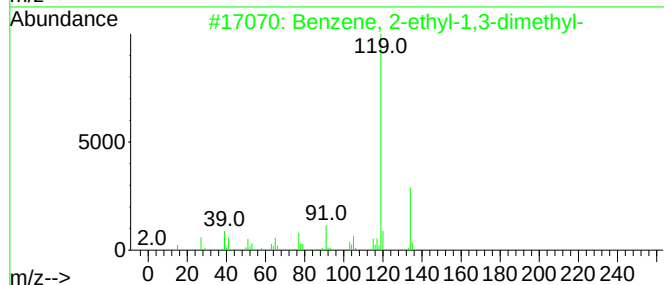
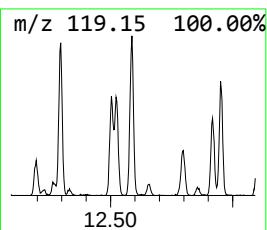
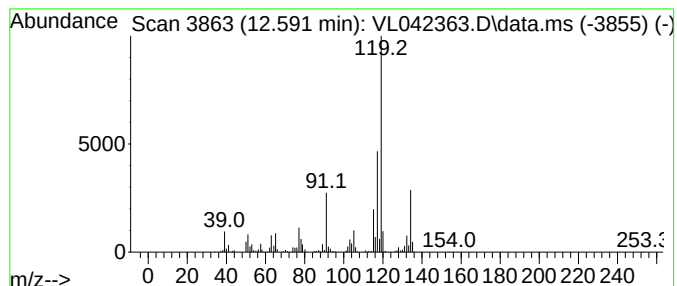
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Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 7 Benzene, 2-ethyl-1,3-dimethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.591	2.70 ppbv	313084	Chlorobenzene-d5	8.882

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	70
2			Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	70
3			Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	70
4			Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	64
5			Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	64



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042363.D
Acq On : 17 Apr 2025 18:24
Operator : SY/MD
Sample : Q1668-03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

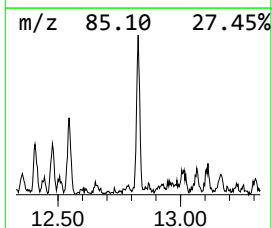
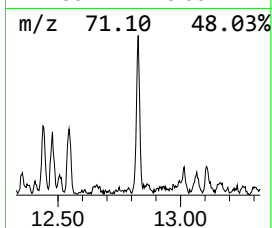
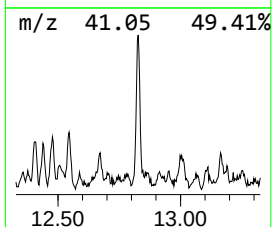
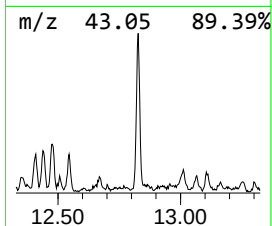
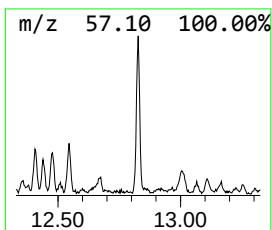
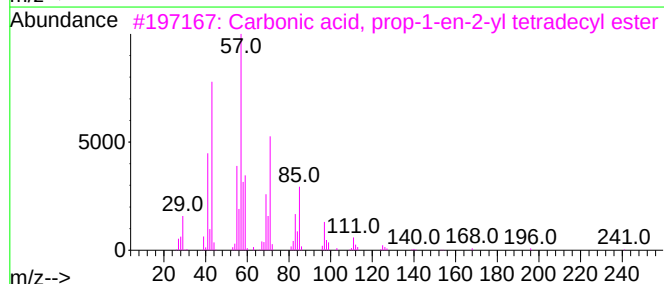
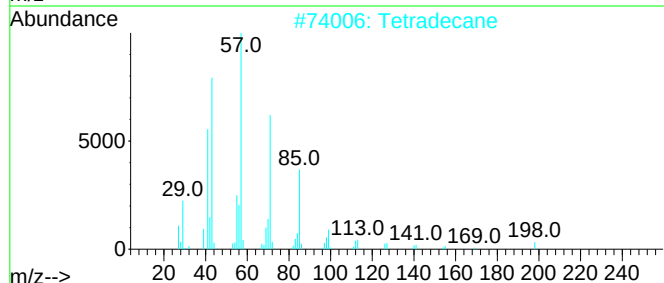
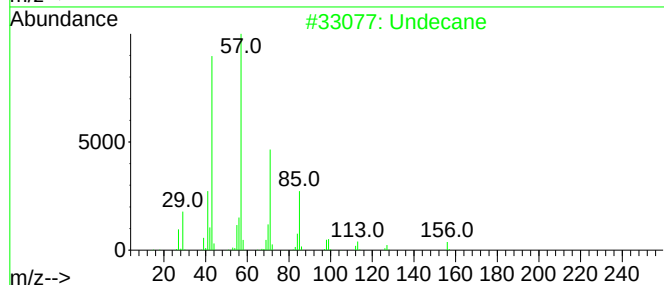
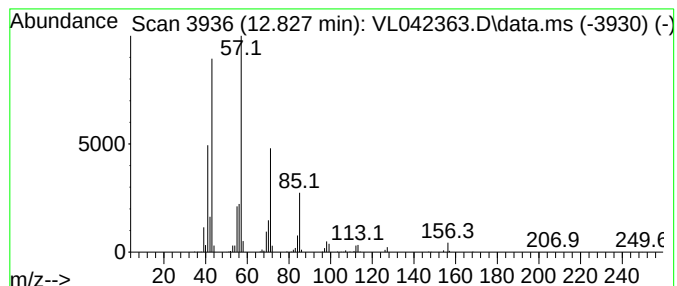
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Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 8 Undecane Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.827	2.26 ppbv	262228	Chlorobenzene-d5	8.882

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane			156	C11H24	001120-21-4	94
2	Tetradecane			198	C14H30	000629-59-4	86
3	Carbonic acid, prop-1-en-2-yl te...			298	C18H34O3	1000382-90-9	78
4	Undecane			156	C11H24	001120-21-4	76
5	Undecane			156	C11H24	001120-21-4	76



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042363.D
Acq On : 17 Apr 2025 18:24
Operator : SY/MD
Sample : Q1668-03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

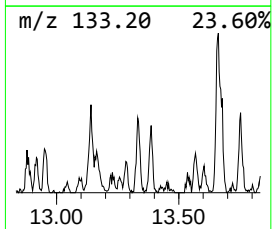
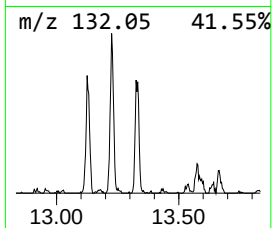
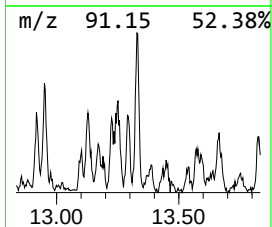
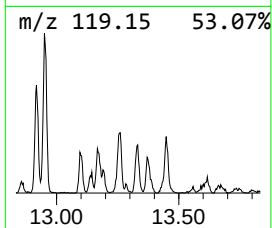
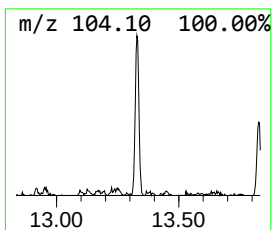
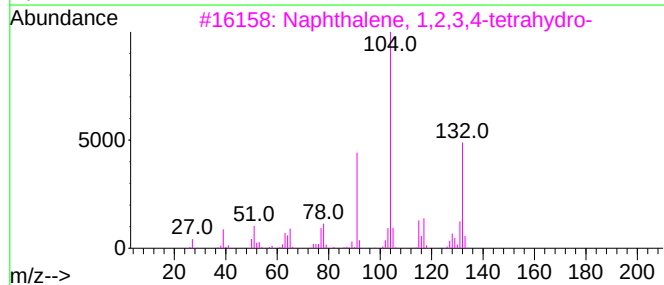
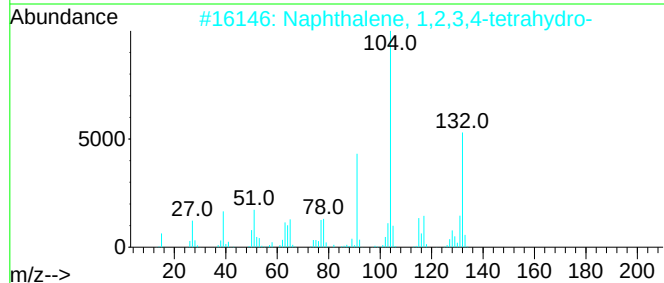
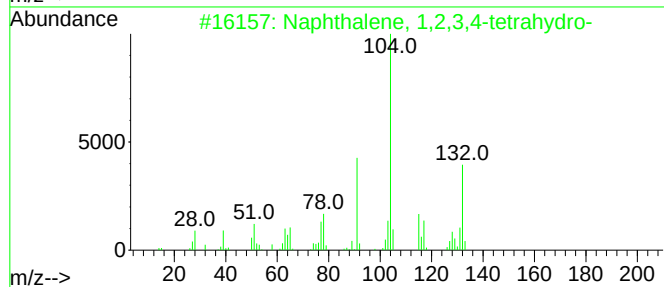
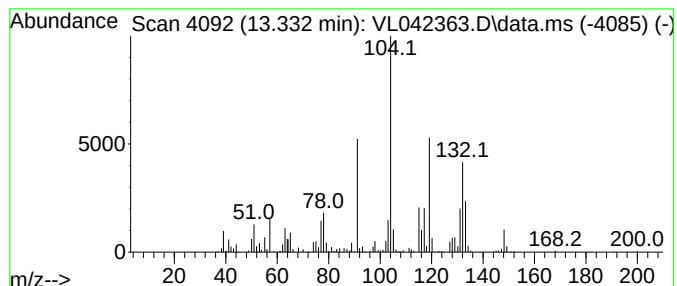
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 9 Naphthalene, 1,2,3,4-tetrahydro... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.332	1.94 ppbv	224548	Chlorobenzene-d5	8.882

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Naphthalene, 1,2,3,4-tetrahydro-	132	C10H12	000119-64-2	86
2			Naphthalene, 1,2,3,4-tetrahydro-	132	C10H12	000119-64-2	64
3			Naphthalene, 1,2,3,4-tetrahydro-	132	C10H12	000119-64-2	58
4			Naphthalene, 1,2,3,4-tetrahydro-	132	C10H12	000119-64-2	52
5			Naphthalene, 1,2,3,4-tetrahydro-	132	C10H12	000119-64-2	49



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042363.D
Acq On : 17 Apr 2025 18:24
Operator : SY/MD
Sample : Q1668-03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

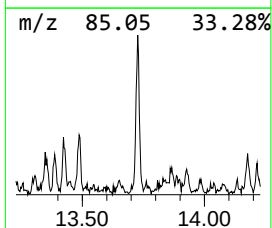
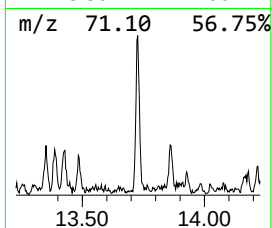
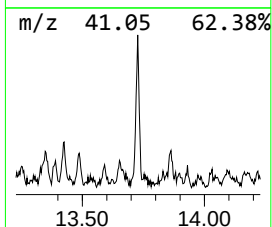
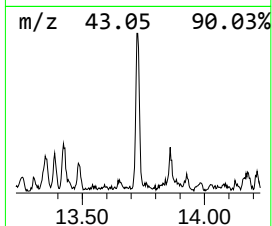
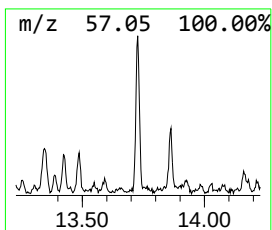
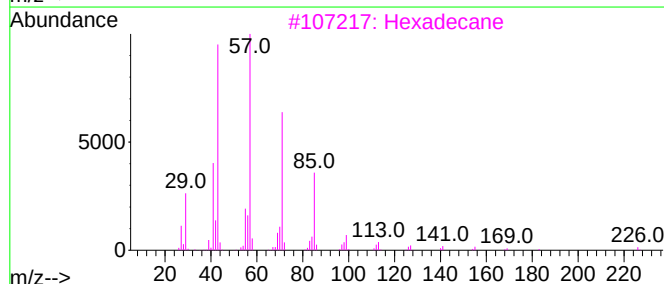
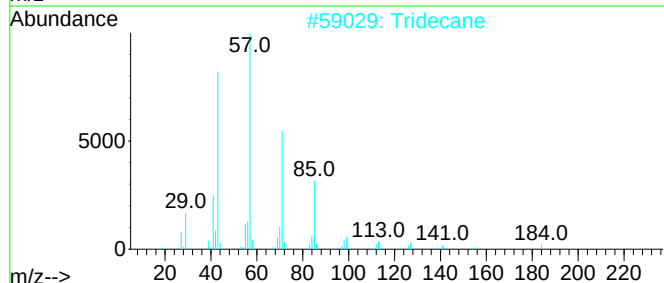
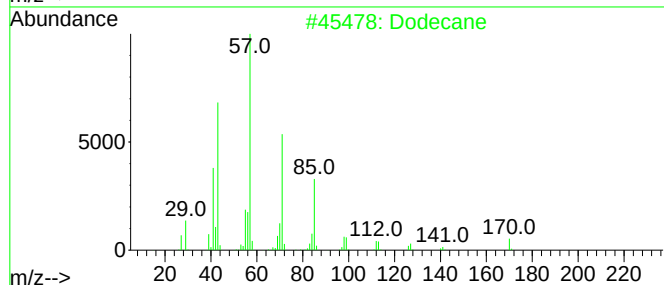
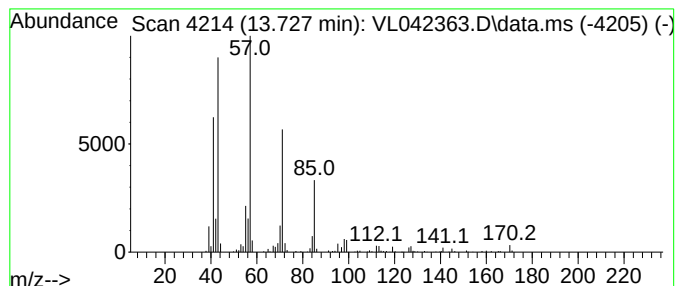
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 10 Dodecane Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.727	2.05 ppbv	237426	Chlorobenzene-d5	8.882

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Dodecane	170	C12H26	000112-40-3	95
2			Tridecane	184	C13H28	000629-50-5	86
3			Hexadecane	226	C16H34	000544-76-3	86
4			Hexadecane	226	C16H34	000544-76-3	86
5			Undecane	156	C11H24	001120-21-4	72



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042363.D
Acq On : 17 Apr 2025 18:24
Operator : SY/MD
Sample : Q1668-03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST0.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
Pentane, 2,4-di...	4.049	2.4	ppbv	222391	2	3.959	930875	10.0
Hexane, 3-methyl-	4.266	3.1	ppbv	288179	2	3.959	930875	10.0
Cyclohexanone	9.629	3.0	ppbv	345405	3	8.882	1157960	10.0
Octane, 2-methyl-	9.730	2.1	ppbv	247258	3	8.882	1157960	10.0
Decane	11.752	3.6	ppbv	416809	3	8.882	1157960	10.0
Benzene, 1-meth...	12.225	1.9	ppbv	224174	3	8.882	1157960	10.0
Benzene, 2-ethy...	12.591	2.7	ppbv	313084	3	8.882	1157960	10.0
Undecane	12.827	2.3	ppbv	262228	3	8.882	1157960	10.0
Naphthalene, 1,...	13.332	1.9	ppbv	224548	3	8.882	1157960	10.0
Dodecane	13.727	2.0	ppbv	237426	3	8.882	1157960	10.0

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/26/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/27/25
Client Sample ID:	IA-B1-3-3252025DL	SDG No.:	Q1668
Lab Sample ID:	Q1668-03DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042375.D	4		04/18/25 00:59	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.84	4.15	UD	4.15	9.89	ug/m3
74-87-3	Chloromethane	0.78	1.61	JD	0.81	4.13	ug/m3
75-01-4	Vinyl Chloride	0.060	0.15	UD	0.15	0.31	ug/m3
74-83-9	Bromomethane	0.56	2.17	UD	2.17	7.77	ug/m3
75-00-3	Chloroethane	0.68	1.79	UD	1.79	5.28	ug/m3
109-99-9	Tetrahydrofuran	0.52	1.53	UD	1.53	5.90	ug/m3
75-69-4	Trichlorofluoromethane	0.64	3.60	UD	3.60	11.2	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.64	4.91	UD	4.91	15.3	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.35	2.45	UD	2.45	14.0	ug/m3
75-65-0	tert-Butyl alcohol	0.76	2.30	UD	2.30	6.06	ug/m3
142-82-5	Heptane	1.70	6.97	JD	1.80	8.20	ug/m3
75-35-4	1,1-Dichloroethene	0.56	2.22	UD	2.22	7.93	ug/m3
67-64-1	Acetone	6.40	15.2	D	2.28	4.75	ug/m3
75-15-0	Carbon Disulfide	0.64	1.99	UD	1.99	6.23	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.48	1.73	UD	1.73	7.21	ug/m3
75-09-2	Methylene Chloride	2.60	9.03	D	2.64	6.95	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.76	3.01	UD	3.01	7.93	ug/m3
75-34-3	1,1-Dichloroethane	0.52	2.10	UD	2.10	8.09	ug/m3
110-82-7	Cyclohexane	1.90	6.54	JD	3.03	6.88	ug/m3
78-93-3	2-Butanone	0.84	2.48	JD	1.42	5.90	ug/m3
56-23-5	Carbon Tetrachloride	0.040	0.25	UD	0.25	0.75	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.36	1.43	UD	1.43	7.93	ug/m3
67-66-3	Chloroform	0.33	1.61	UD	1.61	9.77	ug/m3
71-55-6	1,1,1-Trichloroethane	0.040	0.22	UD	0.22	0.65	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.40	1.87	UD	1.87	9.34	ug/m3
71-43-2	Benzene	0.67	2.14	JD	1.12	6.39	ug/m3
107-06-2	1,2-Dichloroethane	0.36	1.46	UD	1.46	8.09	ug/m3
79-01-6	Trichloroethene	0.070	0.38	UD	0.38	0.64	ug/m3
78-87-5	1,2-Dichloropropane	0.44	2.03	UD	2.03	9.24	ug/m3
75-27-4	Bromodichloromethane	0.31	2.08	UD	2.08	13.4	ug/m3
108-10-1	4-Methyl-2-Pentanone	16.0	65.6	D	1.52	8.20	ug/m3
108-88-3	Toluene	1.50	5.65	JD	1.66	7.54	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.24	1.09	UD	1.09	9.08	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.26	1.18	UD	1.18	9.08	ug/m3
79-00-5	1,1,2-Trichloroethane	0.28	1.53	UD	1.53	10.9	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/26/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/27/25
Client Sample ID:	IA-B1-3-3252025DL	SDG No.:	Q1668
Lab Sample ID:	Q1668-03DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042375.D	4		04/18/25 00:59	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.26	2.22	UD	2.22	17.0	ug/m3
106-93-4	1,2-Dibromoethane	0.29	2.23	UD	2.23	3.07	ug/m3
127-18-4	Tetrachloroethene	0.060	0.41	UD	0.41	0.81	ug/m3
108-90-7	Chlorobenzene	0.30	1.38	UD	1.38	9.21	ug/m3
100-41-4	Ethyl Benzene	1.20	5.21	JD	2.08	8.69	ug/m3
179601-23-1	m/p-Xylene	8.40	36.5	D	3.65	17.4	ug/m3
95-47-6	o-Xylene	2.80	12.2	D	2.08	8.69	ug/m3
100-42-5	Styrene	0.83	3.53	JD	1.87	8.52	ug/m3
75-25-2	Bromoform	0.23	2.38	UD	2.38	20.7	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.040	0.27	UD	0.27	0.82	ug/m3
95-49-8	2-Chlorotoluene	0.44	2.28	UD	2.28	10.4	ug/m3
108-67-8	1,3,5-Trimethylbenzene	1.90	9.34	JD	2.16	9.83	ug/m3
95-63-6	1,2,4-Trimethylbenzene	5.70	28.0	D	1.52	9.83	ug/m3
541-73-1	1,3-Dichlorobenzene	0.32	1.92	UD	1.92	12.0	ug/m3
106-46-7	1,4-Dichlorobenzene	0.21	1.26	UD	1.26	12.0	ug/m3
95-50-1	1,2-Dichlorobenzene	0.30	1.80	UD	1.80	12.0	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.34	2.52	UD	2.52	14.8	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.34	3.63	UD	3.63	21.3	ug/m3
106-99-0	1,3-Butadiene	0.52	1.15	UD	1.15	4.42	ug/m3
91-20-3	Naphthalene	0.40	2.10	D	1.57	2.10	ug/m3
622-96-8	4-Ethyltoluene	1.40	6.88	JD	2.36	9.83	ug/m3
110-54-3	Hexane	3.20	11.3	D	1.55	7.05	ug/m3
107-05-1	Allyl Chloride	0.60	1.88	UD	1.88	6.26	ug/m3
123-91-1	1,4-Dioxane	0.84	3.03	UD	3.03	7.21	ug/m3
80-62-6	Methyl Methacrylate	0.34	1.39	UD	1.39	8.19	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.2			70 (65) - 130 (135)	102%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	103000		2.787			
540-36-3	1,4-Difluorobenzene	291000		3.955			
3114-55-4	Chlorobenzene-d5	254000		8.878			

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/26/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/27/25
Client Sample ID:	IA-B1-3-3252025DL	SDG No.:	Q1668
Lab Sample ID:	Q1668-03DL	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042375.D	4		04/18/25 00:59	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range
 D = Dilution

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042375.D
 Acq On : 18 Apr 2025 00:59
 Operator : SY/MD
 Sample : Q1668-03DL 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B1-3-3252025DL

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 04:38:48 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025

QLast Update : Fri Apr 18 02:14:00 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	102685	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	291278	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	253844	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	212240	10.175	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.700%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	2776	0.153	ppbv	95
4) Chloromethane	1.531	50	1399	0.195	ppbv #	59
9) Propene	1.486	41	1821	0.231	ppbv	93
10) Heptane	4.978	43	9132	0.413	ppbv	97
13) Ethanol	1.719	45	62213	49.750	ppbv	76
15) Acetone	1.835	43	27092	1.612	ppbv	99
19) Isopropyl Alcohol	1.887	45	6854	0.734	ppbv #	1
20) Methylene Chloride	2.059	84	4314	0.655	ppbv #	91
26) Hexane	2.826	57	13454	0.802	ppbv #	34
30) Cyclohexane	3.852	84	6275	0.463	ppbv #	89
34) 2-Butanone	2.560	43	4829	0.210	ppbv	92
36) Benzene	3.658	78	5293m	0.168	ppbv	
50) 4-Methyl-2-Pentanone	5.755	43	153256	4.003	ppbv	98
53) Toluene	6.930	91	14415m	0.382	ppbv	
58) Ethyl Benzene	9.354	91	14757	0.293	ppbv	95
59) m/p-Xylene	9.529	91	84682	2.090	ppbv	99
60) o-Xylene	9.963	91	28511	0.699	ppbv	100
61) Styrene	9.869	104	4030m	0.207	ppbv	
64) n-propylbenzene	10.985	120	2319	0.154	ppbv #	52
70) n-Butylbenzene	12.287	91	8652m	0.125	ppbv	
72) 4-Ethyltoluene	11.121	105	17311	0.347	ppbv #	56
73) 1,3,5-Trimethylbenzene	11.202	105	20692	0.470	ppbv	100
74) 1,2,4-Trimethylbenzene	11.536	105	73024	1.420	ppbv #	61
79) Naphthalene	13.510	128	6160	0.100	ppbv #	96

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

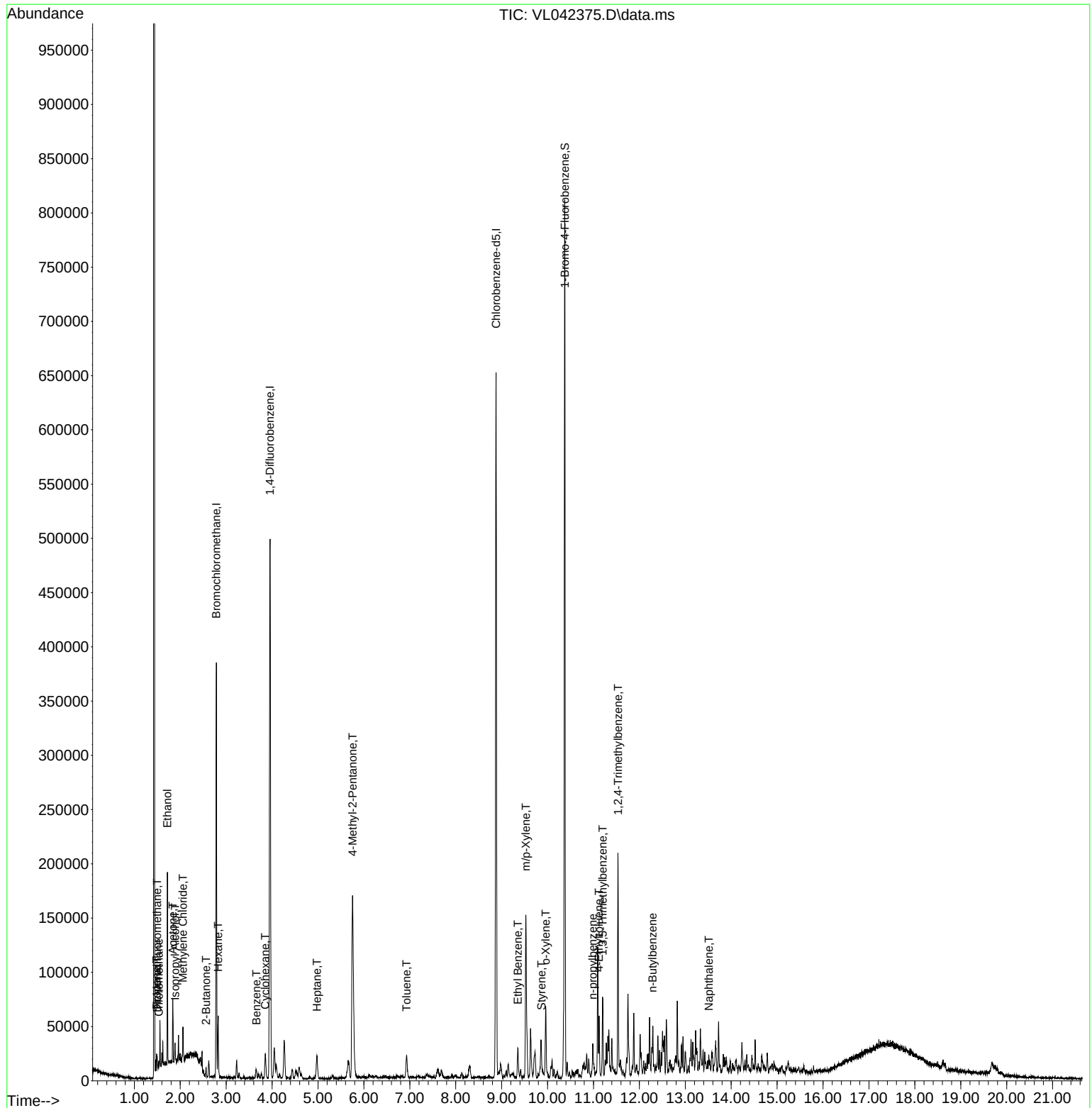
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042375.D
Acq On : 18 Apr 2025 00:59
Operator : SY/MD
Sample : Q1668-03DL 4X
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

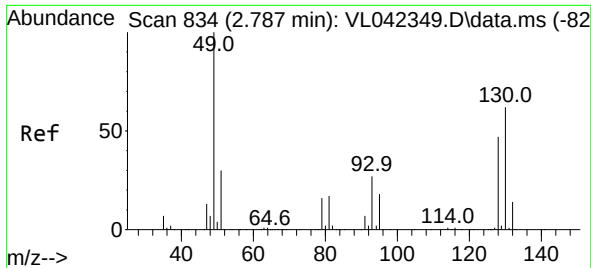
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025DL

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

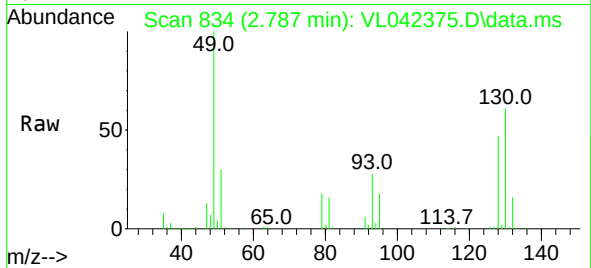
Quant Time: Apr 18 04:38:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 834
Delta R.T. 0.000 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

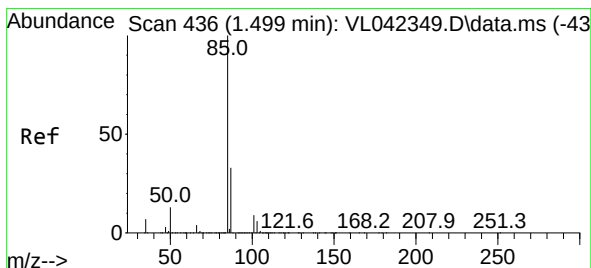
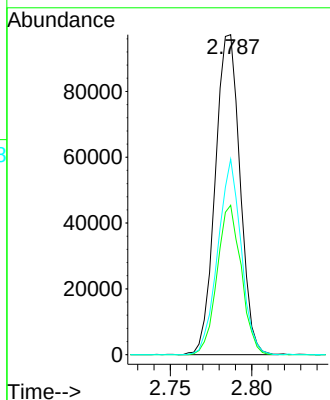
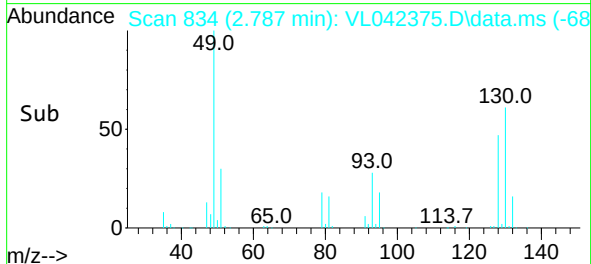
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025DL



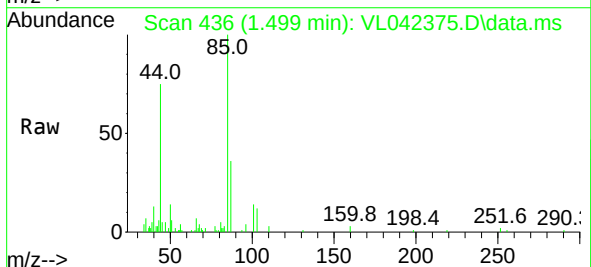
Tgt Ion: 49 Resp: 102685
Ion Ratio Lower Upper
49 100
128 45.4 22.8 68.4
130 57.2 29.3 88.0

Manual Integrations
APPROVED

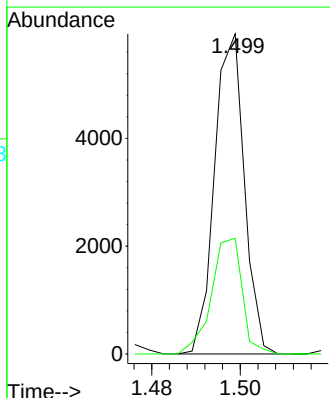
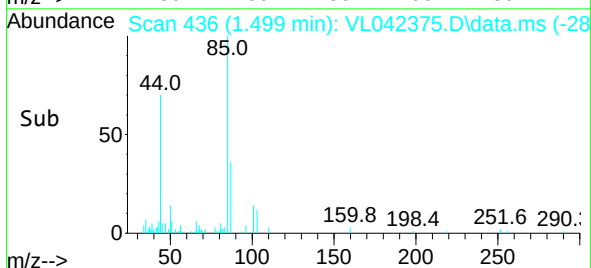
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

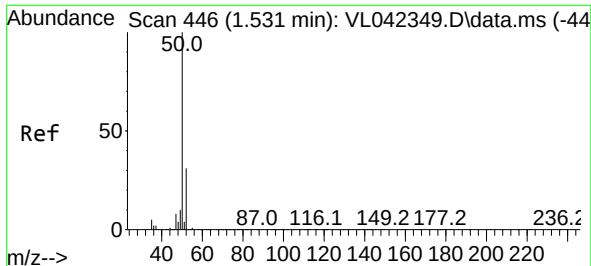


#2
Dichlorodifluoromethane
Concen: 0.153 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59



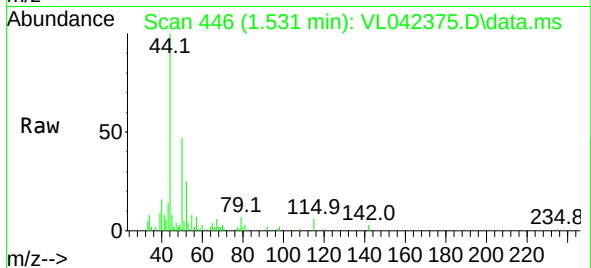
Tgt Ion: 85 Resp: 2776
Ion Ratio Lower Upper
85 100
87 36.2 26.6 39.8





#4
Chloromethane
Concen: 0.195 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

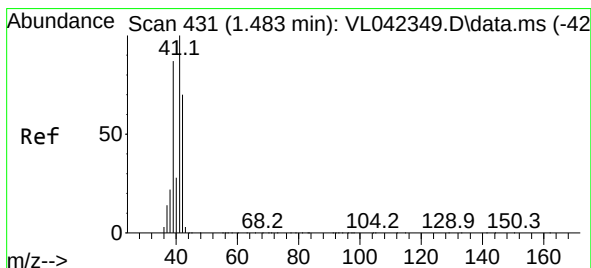
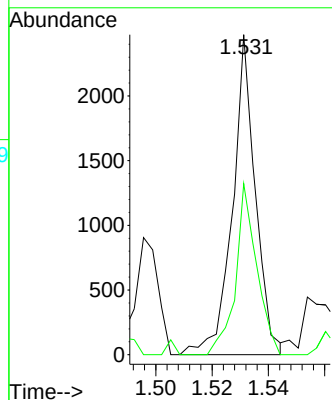
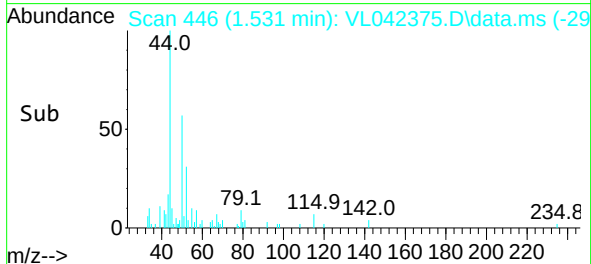
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025DL



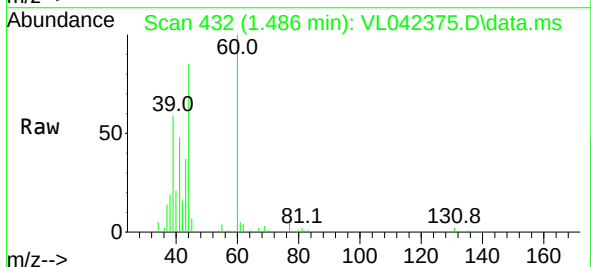
Tgt Ion: 50 Resp: 1399
Ion Ratio Lower Upper
50 100
52 53.5 24.7 37.1

Manual Integrations
APPROVED

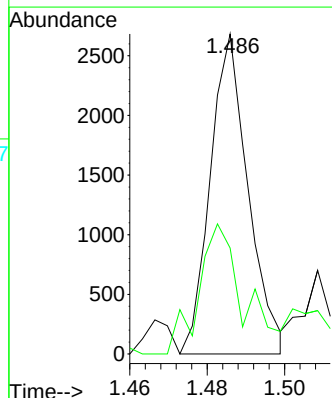
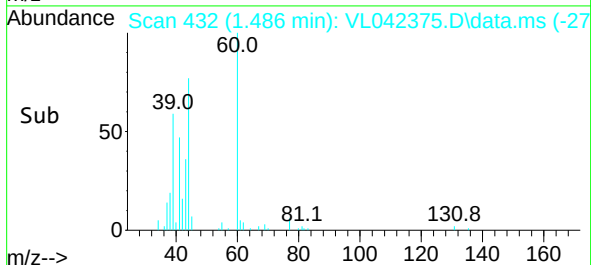
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

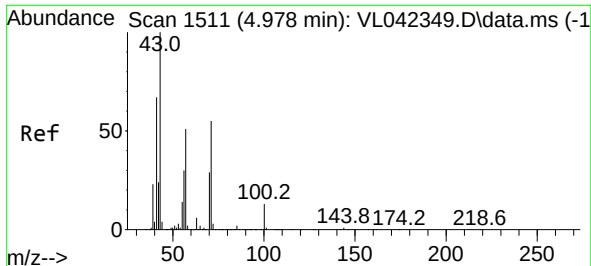


#9
Propene
Concen: 0.231 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59



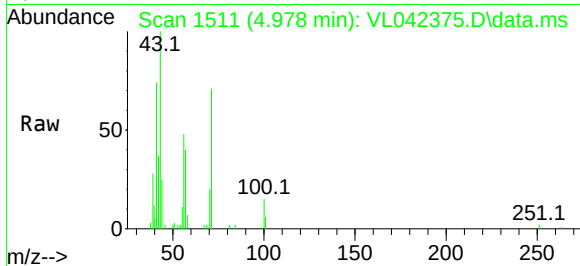
Tgt Ion: 41 Resp: 1821
Ion Ratio Lower Upper
41 100
42 64.4 56.2 84.4





#10
Heptane
Concen: 0.413 ppbv
RT: 4.978 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

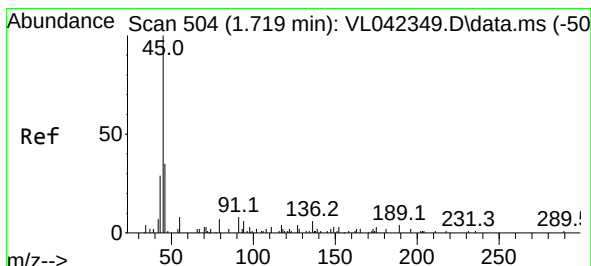
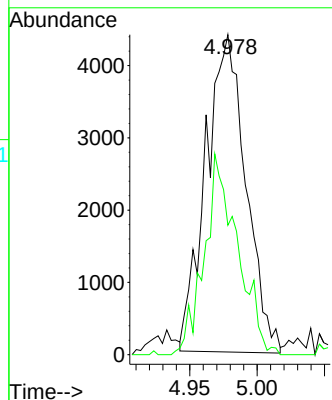
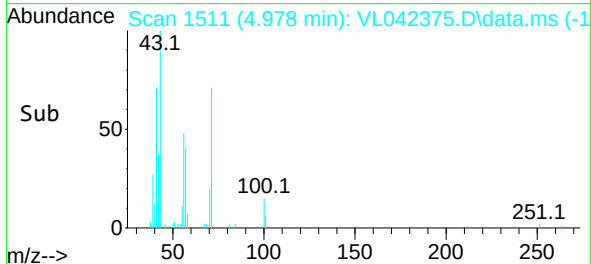
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025DL



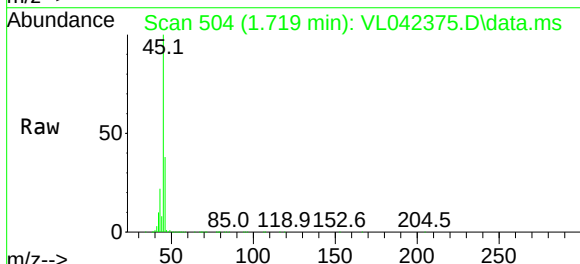
Tgt Ion: 43 Resp: 913
Ion Ratio Lower Upper
43 100
57 52.1 39.9 59.9

Manual Integrations
APPROVED

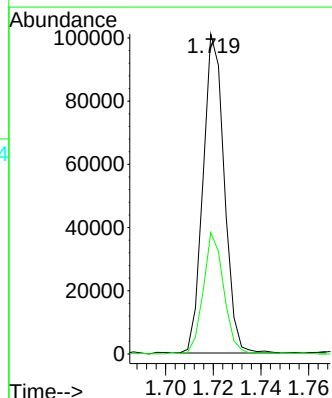
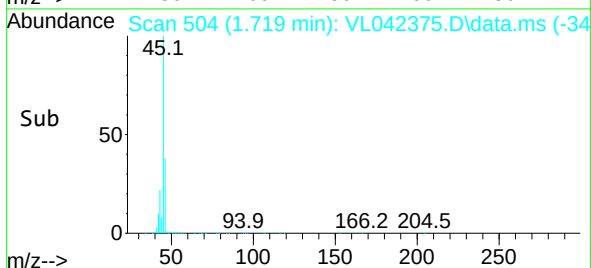
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

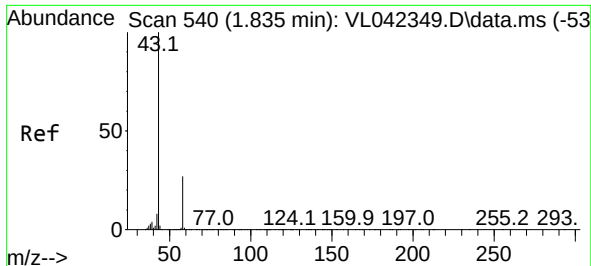


#13
Ethanol
Concen: 49.750 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59



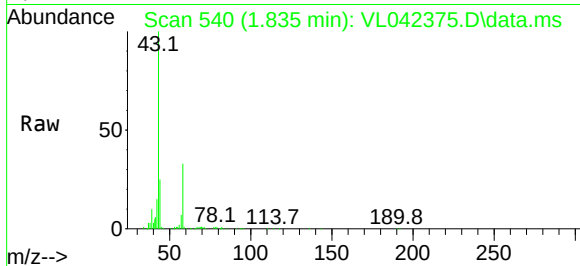
Tgt Ion: 45 Resp: 62213
Ion Ratio Lower Upper
45 100
46 37.6 21.9 87.7





#15
Acetone
Concen: 1.612 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

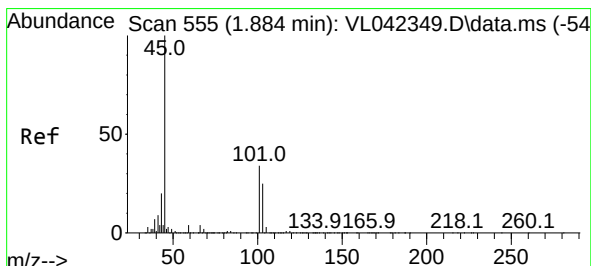
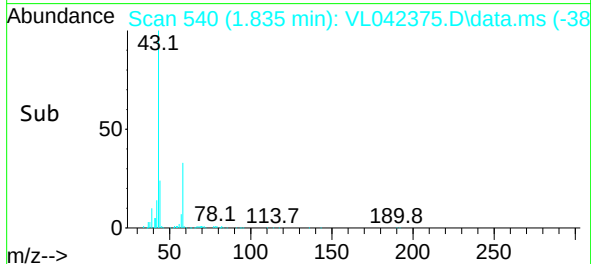
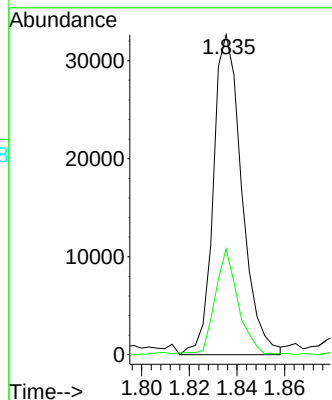
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025DL



Tgt Ion: 43 Resp: 27092
Ion Ratio Lower Upper
43 100
58 27.4 22.4 33.6

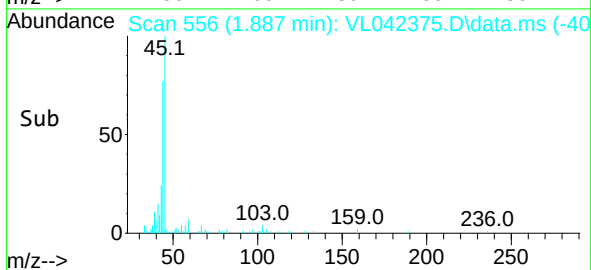
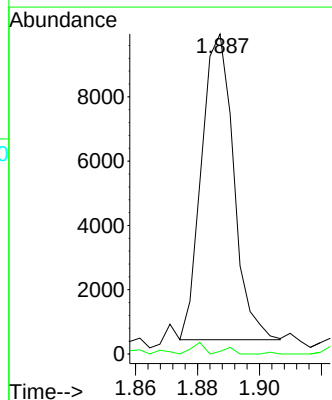
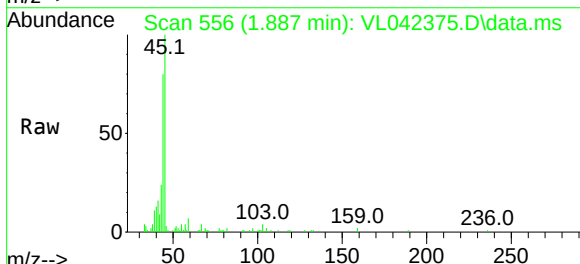
Manual Integrations
APPROVED

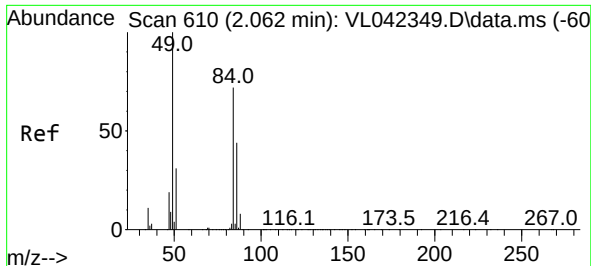
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#19
Isopropyl Alcohol
Concen: 0.734 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

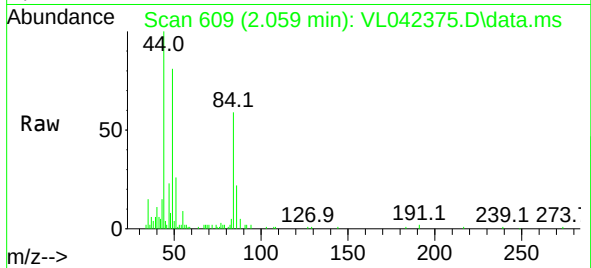
Tgt Ion: 45 Resp: 6854
Ion Ratio Lower Upper
45 100
58 108.5 34.5 51.7#





#20
Methylene Chloride
Concen: 0.655 ppbv
RT: 2.059 min Scan# 610
Delta R.T. -0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

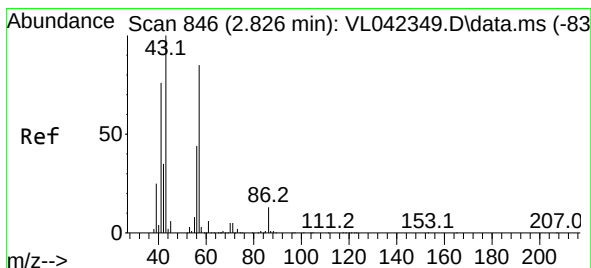
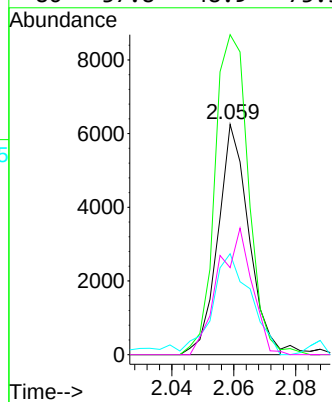
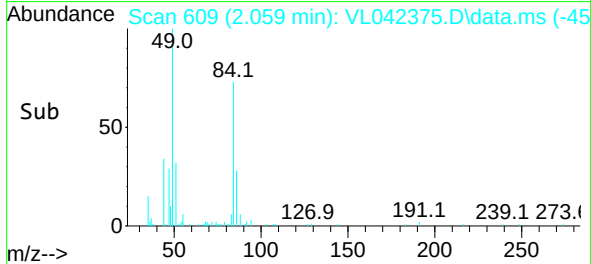
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025DL



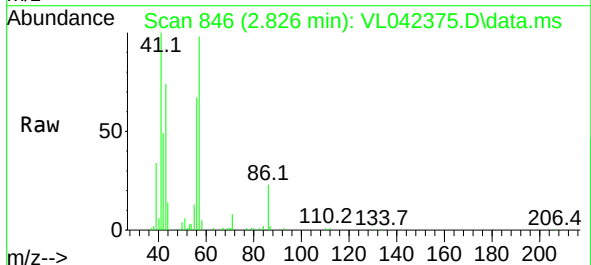
Tgt Ion: 84 Resp: 4314
Ion Ratio Lower Upper
84 100
49 138.9 111.6 167.4
51 41.7 35.1 52.7
86 37.8 48.9 73.3#

Manual Integrations
APPROVED

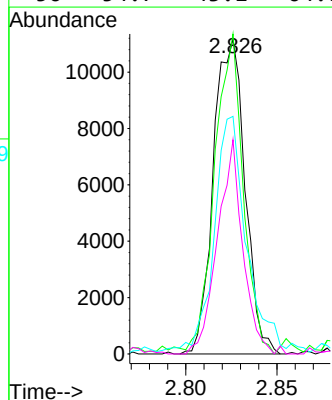
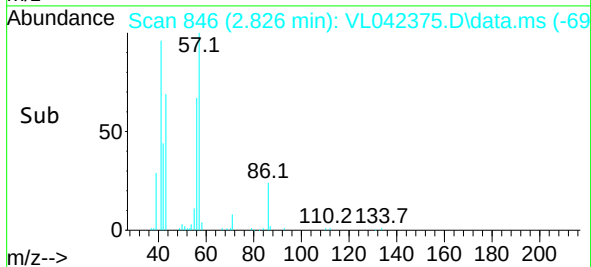
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

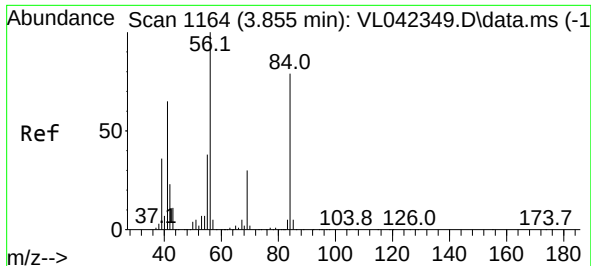


#26
Hexane
Concen: 0.802 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59



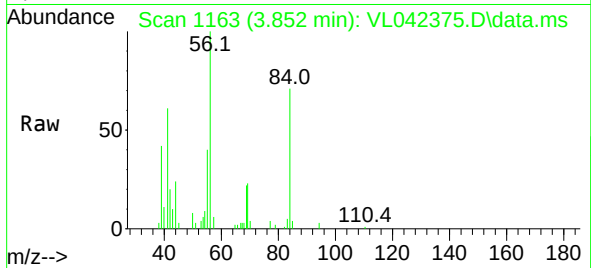
Tgt Ion: 57 Resp: 13454
Ion Ratio Lower Upper
57 100
41 91.8 77.9 116.9
43 78.3 208.4 312.6#
56 54.7 43.1 64.7





#30
Cyclohexane
Concen: 0.463 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. -0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

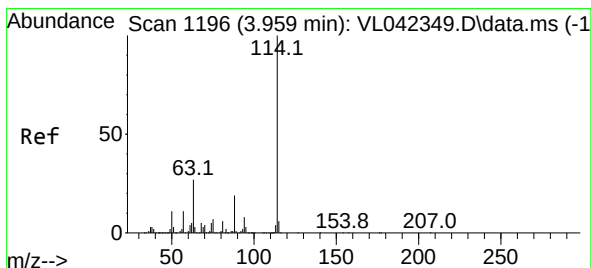
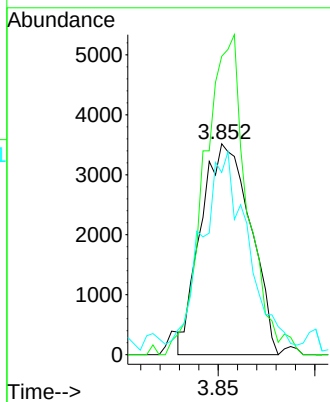
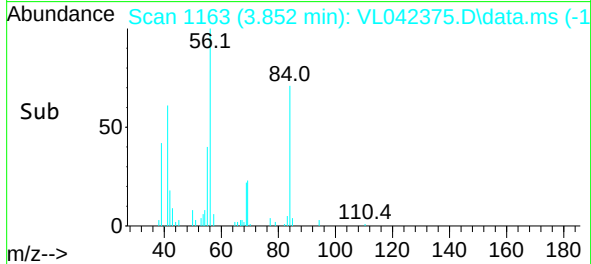
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025DL



Tgt Ion: 84 Resp: 6275
Ion Ratio Lower Upper
84 100
56 131.3 101.0 151.4
41 103.5 67.4 101.0

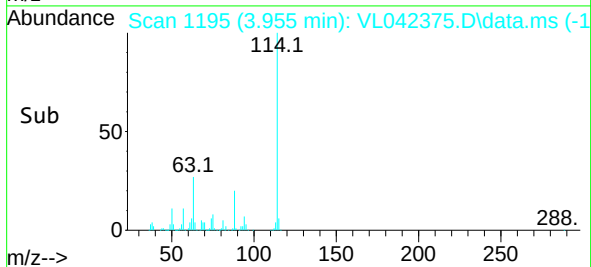
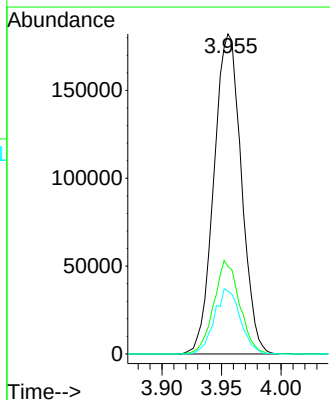
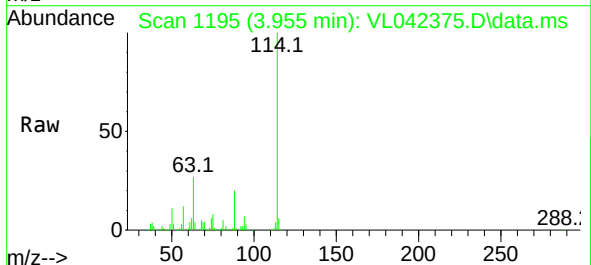
Manual Integrations
APPROVED

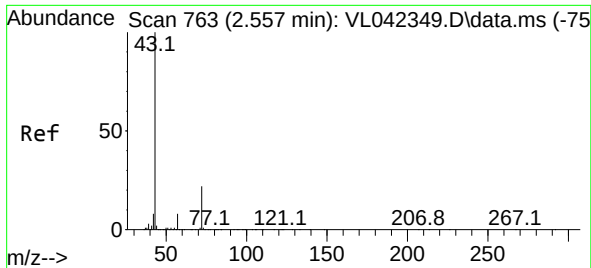
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. -0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Tgt Ion:114 Resp: 291278
Ion Ratio Lower Upper
114 100
63 27.5 21.8 32.6
88 19.2 15.5 23.3





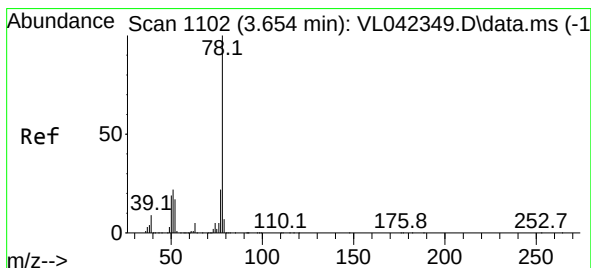
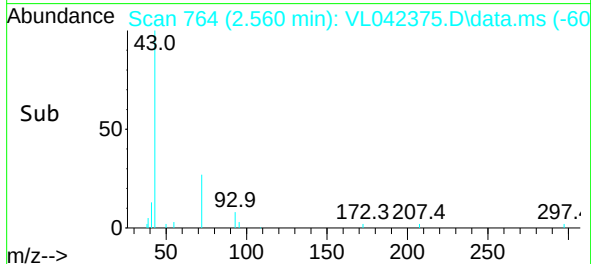
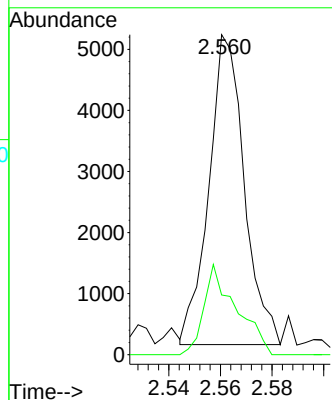
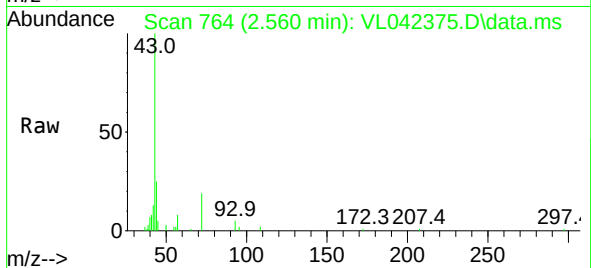
#34
2-Butanone
Concen: 0.210 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025DL

Tgt Ion: 43 Resp: 4829
Ion Ratio Lower Upper
43 100
72 26.7 18.2 27.2

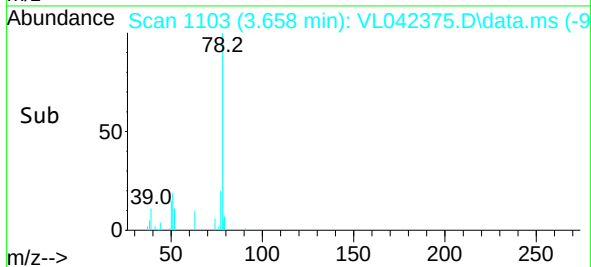
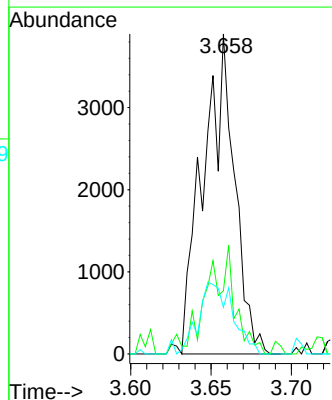
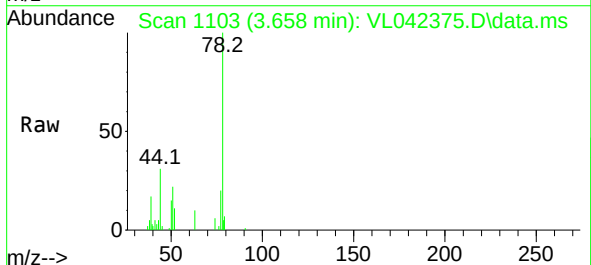
Manual Integrations
APPROVED

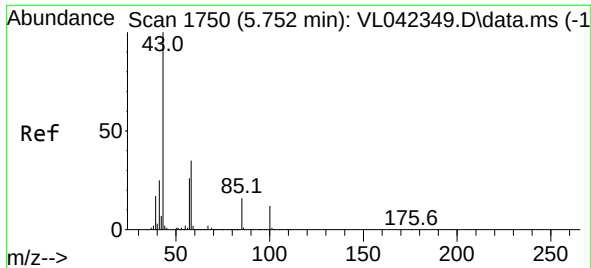
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#36
Benzene
Concen: 0.168 ppbv m
RT: 3.658 min Scan# 1103
Delta R.T. 0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

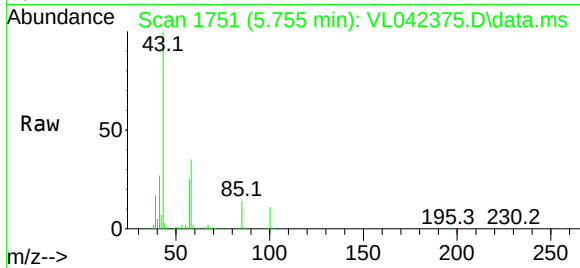
Tgt Ion: 78 Resp: 5293
Ion Ratio Lower Upper
78 100
77 19.8 17.4 26.0
50 14.6 15.5 23.3#





#50
4-Methyl-2-Pentanone
Concen: 4.003 ppbv
RT: 5.755 min Scan# 1750
Delta R.T. 0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

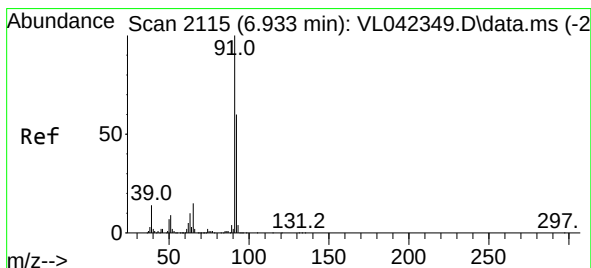
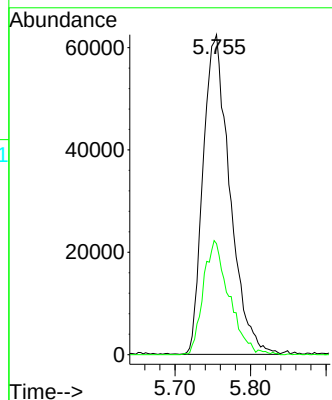
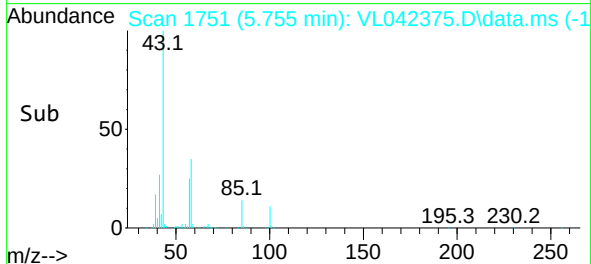
Instrument : MSVOA_L
ClientSampleId : IA-B1-3-3252025DL



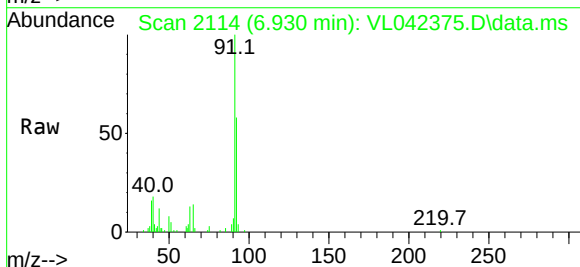
Tgt Ion: 43 Resp: 153250
Ion Ratio Lower Upper
43 100
58 34.9 28.6 43.0

Manual Integrations
APPROVED

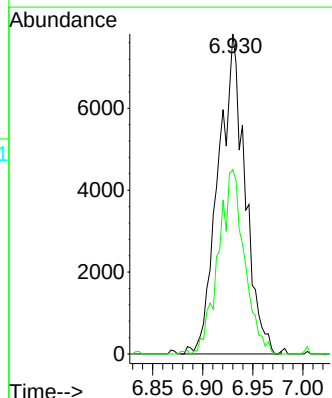
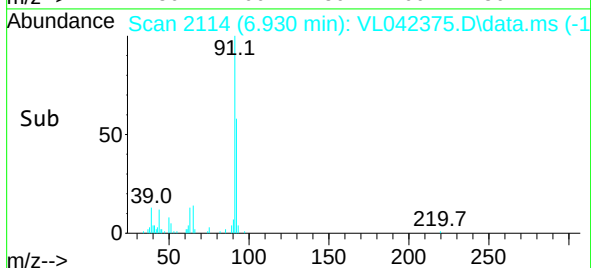
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

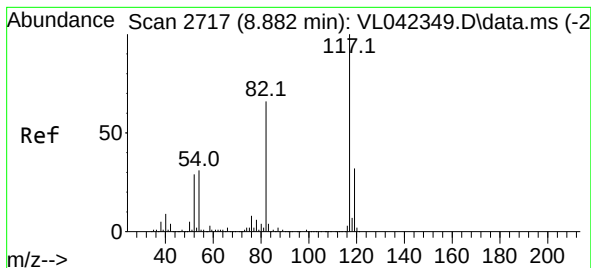


#53
Toluene
Concen: 0.382 ppbv m
RT: 6.930 min Scan# 2114
Delta R.T. -0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59



Tgt Ion: 91 Resp: 14415
Ion Ratio Lower Upper
91 100
92 56.7 48.2 72.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.878 min Scan# 21

Delta R.T. -0.003 min

Lab File: VL042375.D

Acq: 18 Apr 2025 00:59

Instrument :

MSVOA_L

ClientSampleId :

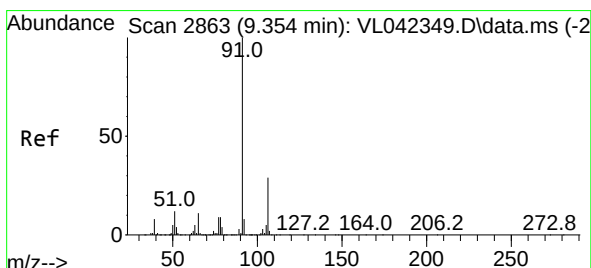
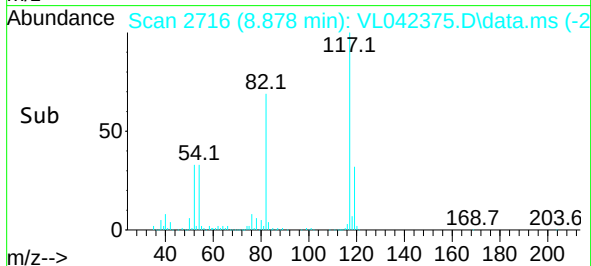
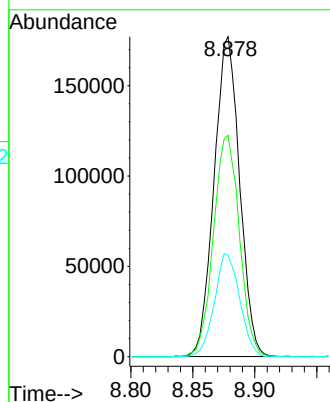
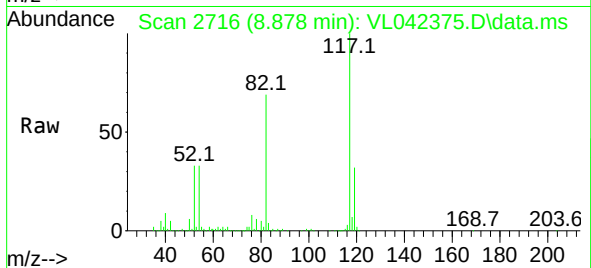
IA-B1-3-3252025DL

Tgt Ion:	117	Resp:	25384
Ion Ratio	Lower	Upper	
117	100		
82	70.3	57.8	86.6
119	32.0	25.2	37.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#58

Ethyl Benzene

Concen: 0.293 ppbv

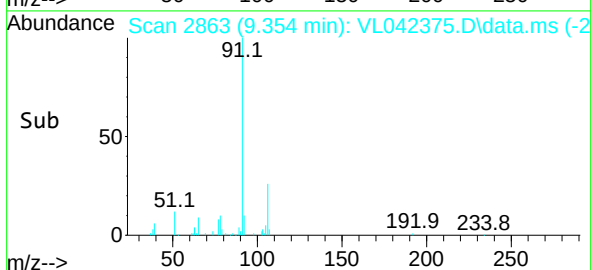
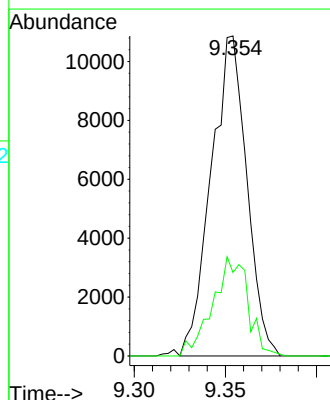
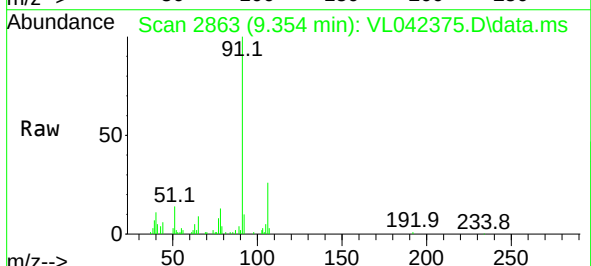
RT: 9.354 min Scan# 2863

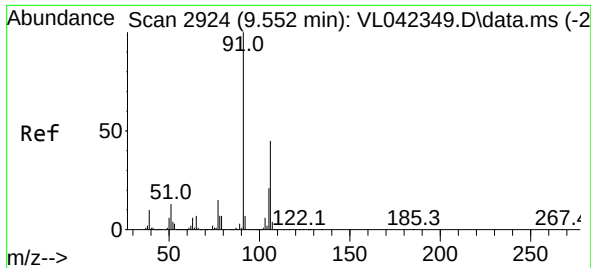
Delta R.T. 0.000 min

Lab File: VL042375.D

Acq: 18 Apr 2025 00:59

Tgt Ion:	91	Resp:	14757
Ion Ratio	Lower	Upper	
91	100		
106	26.1	23.0	34.4





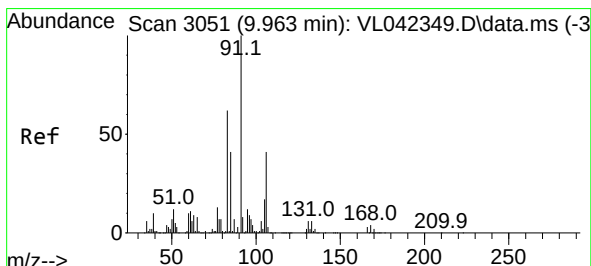
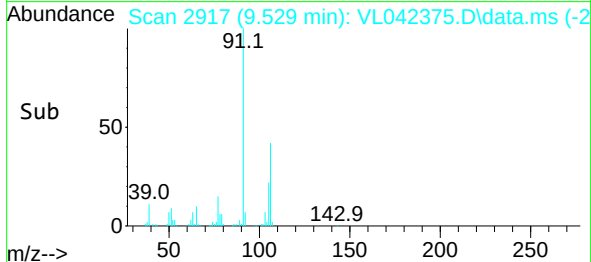
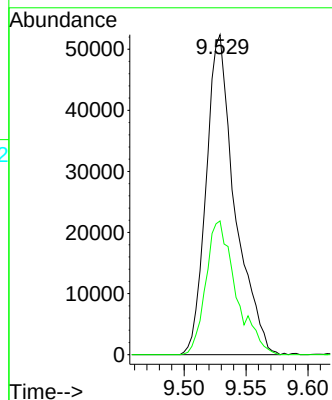
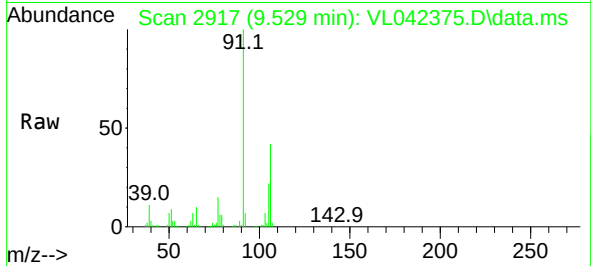
#59
m/p-Xylene
Concen: 2.090 ppbv
RT: 9.529 min Scan# 2917
Delta R.T. -0.023 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Instrument : MSVOA_L
ClientSampleId : IA-B1-3-3252025DL

Tgt Ion: 91 Resp: 8468
Ion Ratio Lower Upper
91 100
106 43.6 35.4 53.2

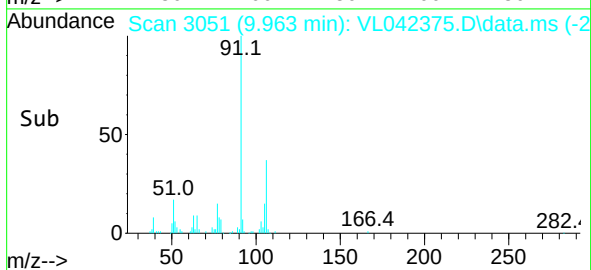
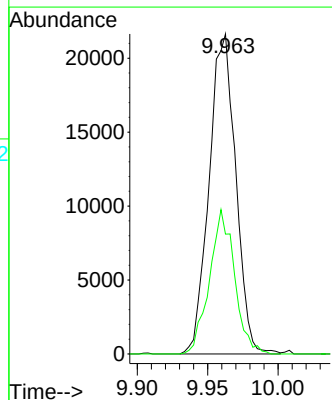
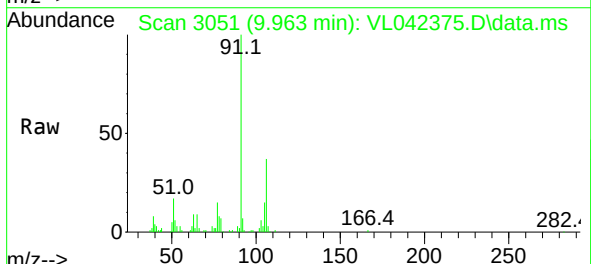
Manual Integrations
APPROVED

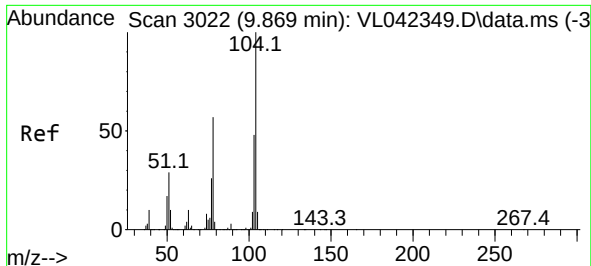
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#60
o-Xylene
Concen: 0.699 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. 0.000 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

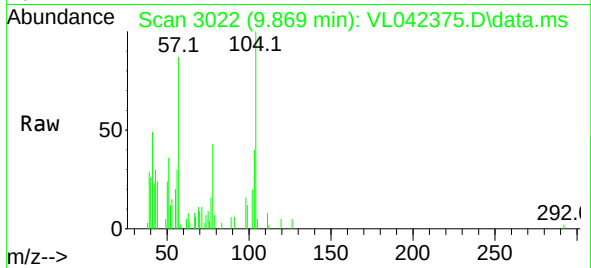
Tgt Ion: 91 Resp: 28511
Ion Ratio Lower Upper
91 100
106 42.5 21.1 63.4





#61
Styrene
Concen: 0.207 ppbv m
RT: 9.869 min Scan# 3022
Delta R.T. 0.000 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

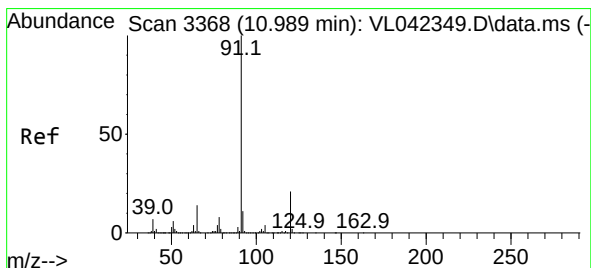
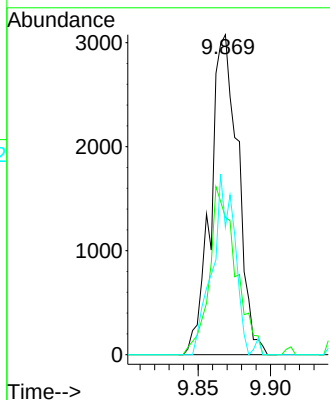
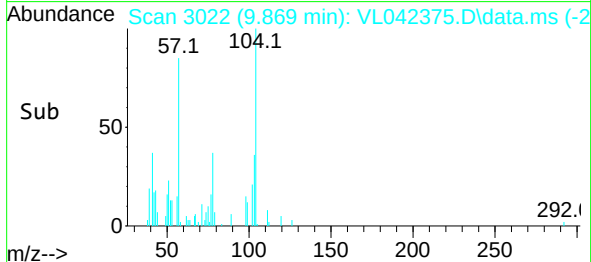
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025DL



Tgt Ion:104 Resp: 4030
Ion Ratio Lower Upper
104 100
78 50.5 44.6 66.8
103 46.5 37.4 56.0

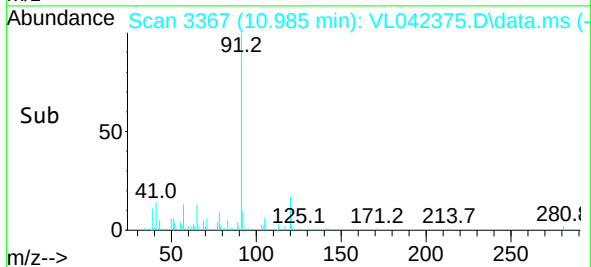
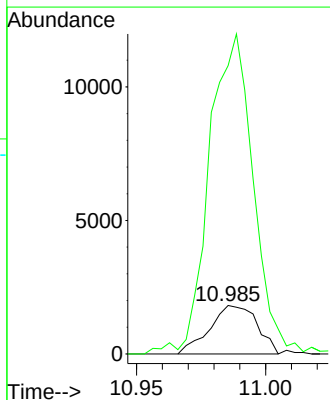
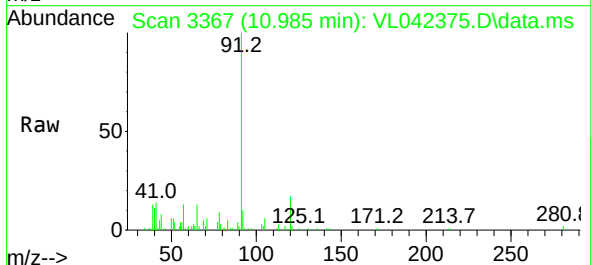
Manual Integrations
APPROVED

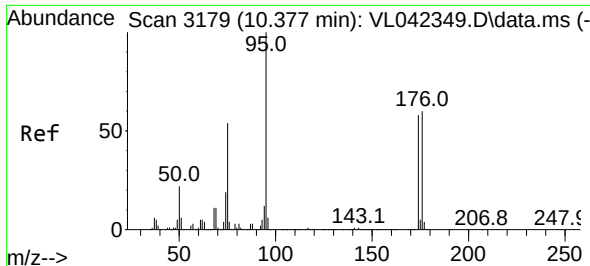
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#64
n-propylbenzene
Concen: 0.154 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. -0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

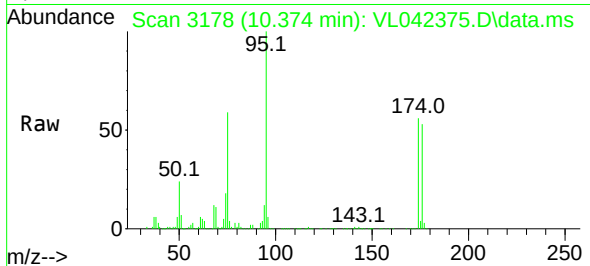
Tgt Ion:120 Resp: 2319
Ion Ratio Lower Upper
120 100
91 620.8 392.4 588.6#





#68
1-Bromo-4-Fluorobenzene
Concen: 10.175 ppbv
RT: 10.374 min Scan# 3179
Delta R.T. -0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

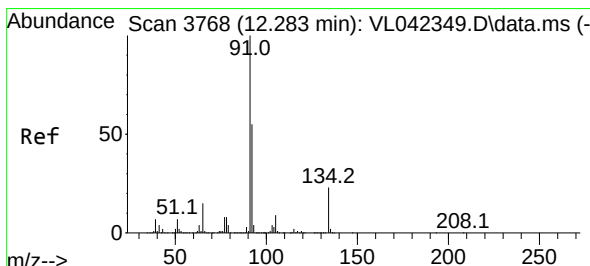
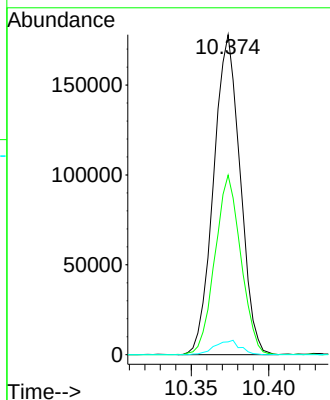
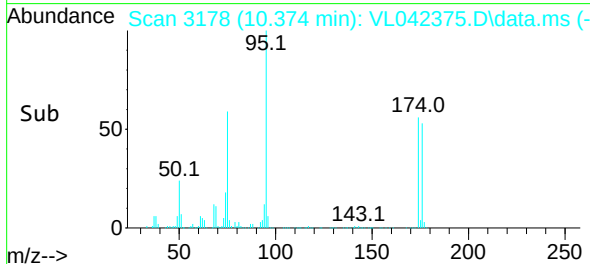
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025DL



Tgt Ion: 95 Resp: 212240
Ion Ratio Lower Upper
95 100
174 54.8 48.5 72.7
175 4.3 3.7 5.5

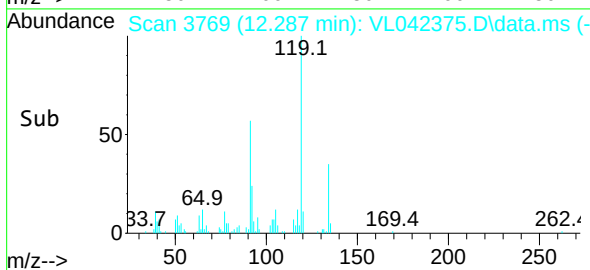
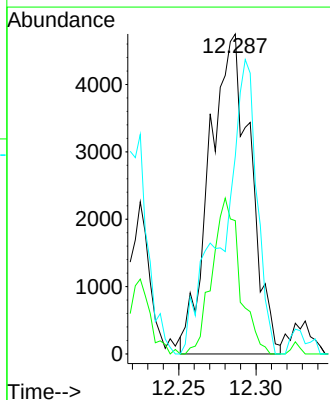
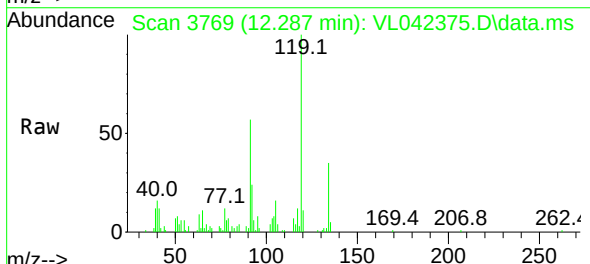
Manual Integrations
APPROVED

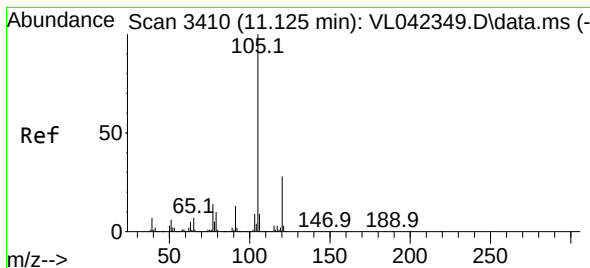
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#70
n-Butylbenzene
Concen: 0.125 ppbv m
RT: 12.287 min Scan# 3769
Delta R.T. 0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

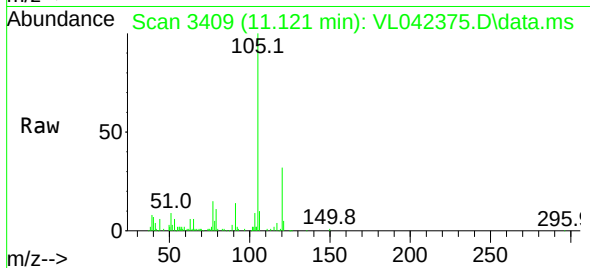
Tgt Ion: 91 Resp: 8652
Ion Ratio Lower Upper
91 100
92 34.0 44.2 66.4#
134 0.0 18.2 27.4#





#72
4-Ethyltoluene
Concen: 0.347 ppbv
RT: 11.121 min Scan# 3410
Delta R.T. -0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

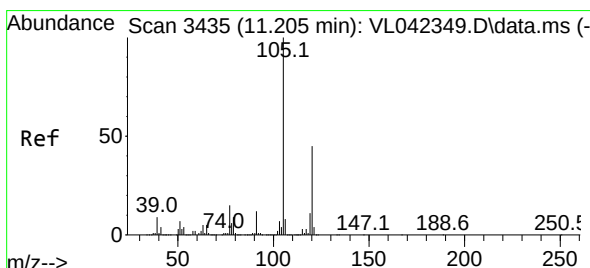
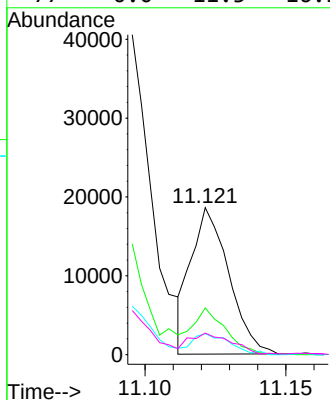
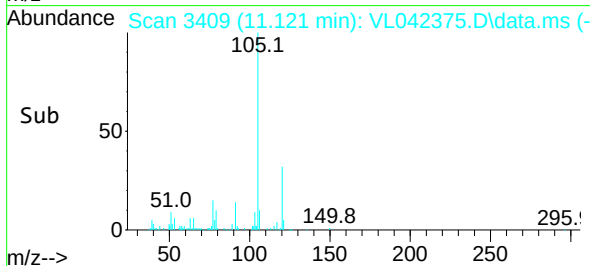
Instrument : MSVOA_L
ClientSampleId : IA-B1-3-3252025DL



Tgt Ion:105 Resp: 1731
Ion Ratio Lower Upper
105 100
120 0.0 23.2 34.8
91 0.0 10.4 15.6
77 0.0 11.3 16.9

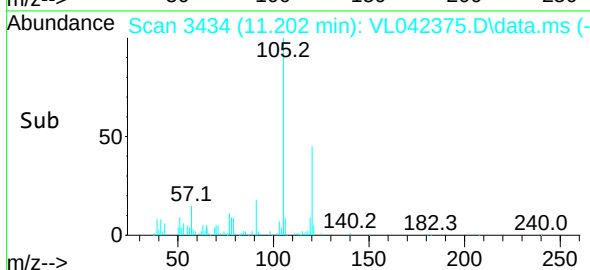
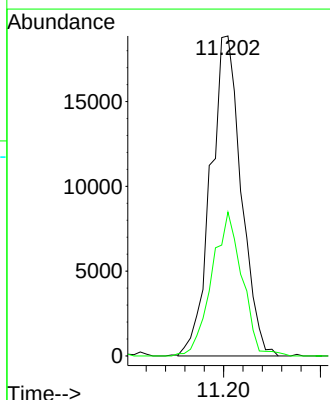
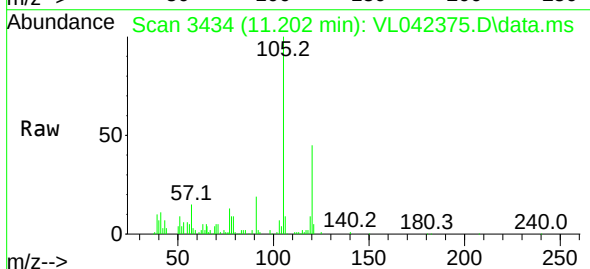
Manual Integrations
APPROVED

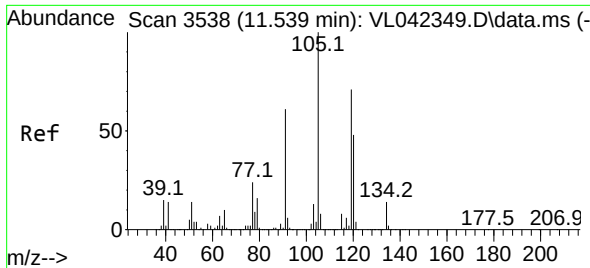
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#73
1,3,5-Trimethylbenzene
Concen: 0.470 ppbv
RT: 11.202 min Scan# 3434
Delta R.T. -0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

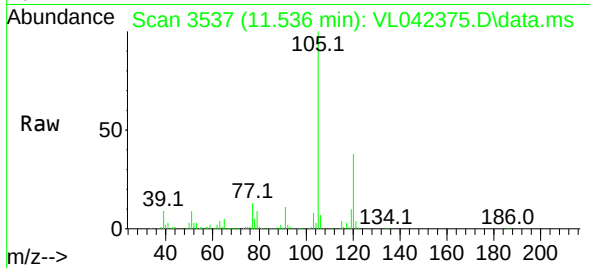
Tgt Ion:105 Resp: 20692
Ion Ratio Lower Upper
105 100
120 44.3 35.6 53.4





#74
1,2,4-Trimethylbenzene
Concen: 1.420 ppbv
RT: 11.536 min Scan# 3538
Delta R.T. -0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

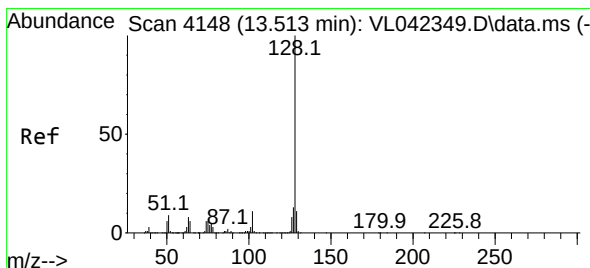
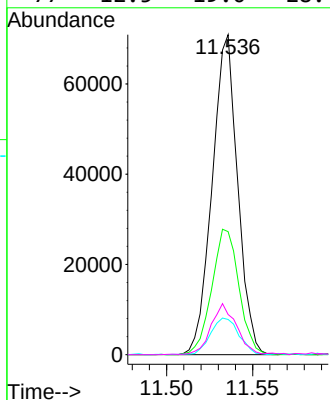
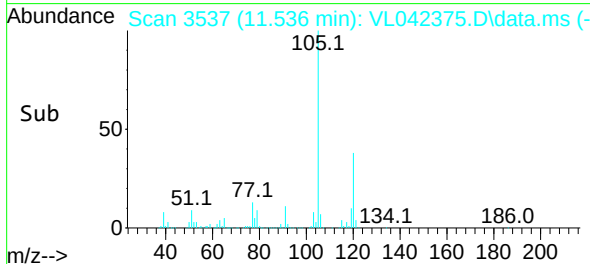
Instrument : MSVOA_L
ClientSampleId : IA-B1-3-3252025DL



Tgt Ion:105 Resp: 73024
Ion Ratio Lower Upper
105 100
120 38.5 38.1 57.1
91 10.9 48.8 73.2
77 12.5 19.0 28.4#

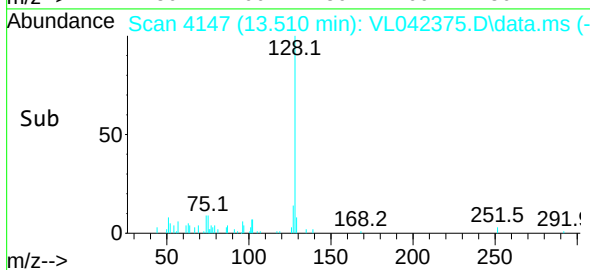
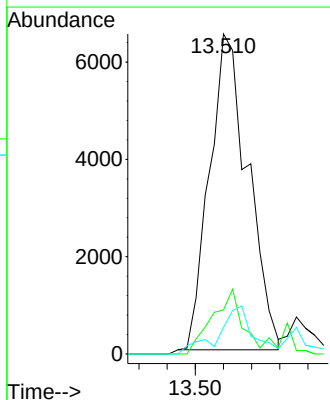
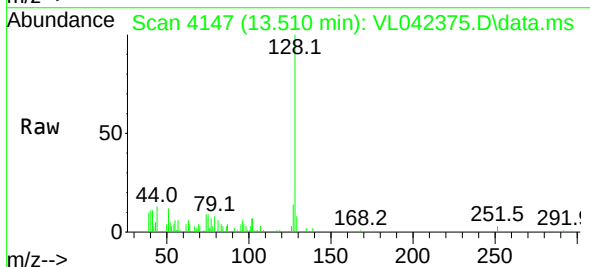
Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#79
Naphthalene
Concen: 0.100 ppbv
RT: 13.510 min Scan# 4147
Delta R.T. -0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Tgt Ion:128 Resp: 6160
Ion Ratio Lower Upper
128 100
127 14.0 10.6 15.8
129 8.4 8.6 12.8#



Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/26/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/27/25
Client Sample ID:	IA-B1-1-3252025	SDG No.:	Q1668
Lab Sample ID:	Q1668-04	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042364.D	1		04/17/25 18:58	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.48	2.37	J	1.04	2.47	ug/m3
74-87-3	Chloromethane	0.67	1.38		0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.010	0.030	U	0.030	0.080	ug/m3
74-83-9	Bromomethane	0.14	0.54	U	0.54	1.94	ug/m3
75-00-3	Chloroethane	0.17	0.45	U	0.45	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.13	0.38	U	0.38	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.24	1.35	J	0.90	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.16	1.23	U	1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.090	0.63	U	0.63	3.49	ug/m3
75-65-0	tert-Butyl alcohol	0.36	1.09	J	0.58	1.52	ug/m3
142-82-5	Heptane	1.90	7.79		0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
67-64-1	Acetone	7.30	17.3		0.57	1.19	ug/m3
75-15-0	Carbon Disulfide	0.16	0.50	U	0.50	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.12	0.43	U	0.43	1.80	ug/m3
75-09-2	Methylene Chloride	5.20	18.1		0.66	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.19	0.75	U	0.75	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.13	0.53	U	0.53	2.02	ug/m3
110-82-7	Cyclohexane	1.80	6.20		0.76	1.72	ug/m3
78-93-3	2-Butanone	0.83	2.45		0.35	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.070	0.44		0.060	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.090	0.36	U	0.36	1.98	ug/m3
67-66-3	Chloroform	0.080	0.39	U	0.39	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.010	0.050	U	0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.37	1.73	J	0.47	2.34	ug/m3
71-43-2	Benzene	0.77	2.46		0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.090	0.36	U	0.36	2.02	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.11	0.51	U	0.51	2.31	ug/m3
75-27-4	Bromodichloromethane	0.080	0.54	U	0.54	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	9.80	40.2		0.37	2.05	ug/m3
108-88-3	Toluene	2.70	10.2		0.41	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.070	0.38	U	0.38	2.73	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/26/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/27/25
Client Sample ID:	IA-B1-1-3252025	SDG No.:	Q1668
Lab Sample ID:	Q1668-04	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042364.D	1		04/17/25 18:58	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.070	0.60	U	0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.070	0.54	U	0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	0.050	0.34		0.14	0.20	ug/m3
108-90-7	Chlorobenzene	0.080	0.37	U	0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	2.60	11.3		0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	14.6	63.4		0.91	4.34	ug/m3
95-47-6	o-Xylene	6.20	26.9		0.52	2.17	ug/m3
100-42-5	Styrene	0.61	2.60		0.47	2.13	ug/m3
75-25-2	Bromoform	0.060	0.62	U	0.62	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.010	0.070	U	0.070	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.11	0.57	U	0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	4.00	19.7		0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	11.4	56.0		0.39	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.050	0.30	U	0.30	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.090	0.67	U	0.67	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.090	0.96	U	0.96	5.33	ug/m3
106-99-0	1,3-Butadiene	0.13	0.29	U	0.29	1.11	ug/m3
91-20-3	Naphthalene	0.49	2.57		0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	3.20	15.7		0.59	2.46	ug/m3
110-54-3	Hexane	4.80	16.9		0.39	1.76	ug/m3
107-05-1	Allyl Chloride	0.15	0.47	U	0.47	1.57	ug/m3
123-91-1	1,4-Dioxane	0.21	0.76	U	0.76	1.80	ug/m3
80-62-6	Methyl Methacrylate	0.090	0.37	U	0.37	2.05	ug/m3

SURROGATES

460-00-4	1-Bromo-4-Fluorobenzene	9.90		70 (65) - 130 (135)	99%	SPK: 10

INTERNAL STANDARDS

74-97-5	Bromochloromethane	118000	2.791
540-36-3	1,4-Difluorobenzene	343000	3.962
3114-55-4	Chlorobenzene-d5	303000	8.885

TENTATIVE IDENTIFIED COMPOUNDS

75-45-6	Chlorodifluoromethane	0.28	J	1.48	ppbv
115-07-1	Propene	0.82	J	1.49	ppbv
64-17-5	Ethanol	180	J	1.72	ppbv

Report of Analysis

Client:	Woodard & Curran	Date Collected:	03/26/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	03/27/25
Client Sample ID:	IA-B1-1-3252025	SDG No.:	Q1668
Lab Sample ID:	Q1668-04	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042364.D	1		04/17/25 18:58	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
67-63-0	Isopropyl Alcohol	3.10		J		1.89	ppbv
000589-34-4	Hexane, 3-methyl-	4.20		J		4.28	ppbv
003221-61-2	Octane, 2-methyl-	5.10		J		9.74	ppbv
98-82-8	Isopropylbenzene	0.36		J		10.5	ppbv
103-65-1	n-propylbenzene	1.50		J		11.0	ppbv
135-98-8	sec-Butylbenzene	0.20		J		11.8	ppbv
99-87-6	p-Isopropyltoluene	0.17		J		11.9	ppbv
000496-11-7	Indane	3.60		J		12.0	ppbv
001074-43-7	Benzene, 1-methyl-3-propyl-	3.90		J		12.2	ppbv
104-51-8	n-Butylbenzene	0.98		J		12.3	ppbv
000933-98-2	Benzene, 1-ethyl-2,3-dimethyl-	5.60		J		12.6	ppbv
001120-21-4	Undecane	4.70		J		12.8	ppbv
000824-90-8	1-Phenyl-1-butene	3.90		J		13.2	ppbv
000119-64-2	Naphthalene, 1,2,3,4-tetrahydro-	4.50		J		13.3	ppbv
000112-40-3	Dodecane	3.70		J		13.7	ppbv
001680-51-9	Naphthalene, 1,2,3,4-tetrahydro-6-	3.40		J		14.2	ppbv
91-57-6	Naphthalene,2-methyl-	0.34		J		14.5	ppbv

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042364.D
 Acq On : 17 Apr 2025 18:58
 Operator : SY/MD
 Sample : Q1668-04
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B1-1-3252025

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 04/18/2025
 Supervised By : Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 02:41:00 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025

QLast Update : Fri Apr 18 02:14:00 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.791	49	117691	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	343133	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	303219	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	247615	9.938	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.400%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	10068	0.484	ppbv	96
3) Chlorodifluoromethane	1.476	51	5491m	0.277	ppbv	
4) Chloromethane	1.535	50	5532	0.672	ppbv	95
9) Propene	1.489	41	7365m	0.817	ppbv	
10) Heptane	4.988	43	48989	1.934	ppbv	95
11) Trichlorofluoromethane	1.881	101	4688	0.237	ppbv	90
13) Ethanol	1.722	45	257475	179.643	ppbv	74
15) Acetone	1.839	43	140628	7.299	ppbv	90
17) tert-Butyl alcohol	2.046	59	8687	0.364	ppbv #	56
19) Isopropyl Alcohol	1.891	45	33526	3.132	ppbv #	17
20) Methylene Chloride	2.066	84	39273	5.205	ppbv	93
26) Hexane	2.829	57	92595	4.817	ppbv #	33
30) Cyclohexane	3.865	84	28679	1.845	ppbv	97
34) 2-Butanone	2.564	43	22380	0.825	ppbv	99
35) Carbon Tetrachloride	3.771	117	2263m	0.073	ppbv	
36) Benzene	3.664	78	28409	0.768	ppbv	94
44) 2,2,4-Trimethylpentane	4.648	57	23617m	0.369	ppbv	
50) 4-Methyl-2-Pentanone	5.758	43	441281	9.785	ppbv	99
52) Tetrachloroethene	8.235	164	715m	0.050	ppbv	
53) Toluene	6.940	91	121585	2.738	ppbv	100
58) Ethyl Benzene	9.358	91	156392	2.603	ppbv	98
59) m/p-Xylene	9.536	91	706391	14.596	ppbv	100
60) o-Xylene	9.969	91	301328	6.183	ppbv	100
61) Styrene	9.872	104	14156	0.609	ppbv	93
62) Isopropylbenzene	10.542	105	25514	0.357	ppbv	97
64) n-propylbenzene	10.992	120	27632	1.536	ppbv	98
67) sec-Butylbenzene	11.772	105	18674	0.204	ppbv	94
69) p-Isopropyltoluene	11.931	119	13409	0.169	ppbv	99
70) n-Butylbenzene	12.293	91	80990m	0.978	ppbv	
72) 4-Ethyltoluene	11.128	105	191371	3.212	ppbv #	56
73) 1,3,5-Trimethylbenzene	11.209	105	207820	3.951	ppbv	98
74) 1,2,4-Trimethylbenzene	11.539	105	701287	11.415	ppbv #	64
79) Naphthalene	13.517	128	36056	0.491	ppbv	97
80) Naphthalene,2-methyl-	14.462	142	14016	0.335	ppbv #	58

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

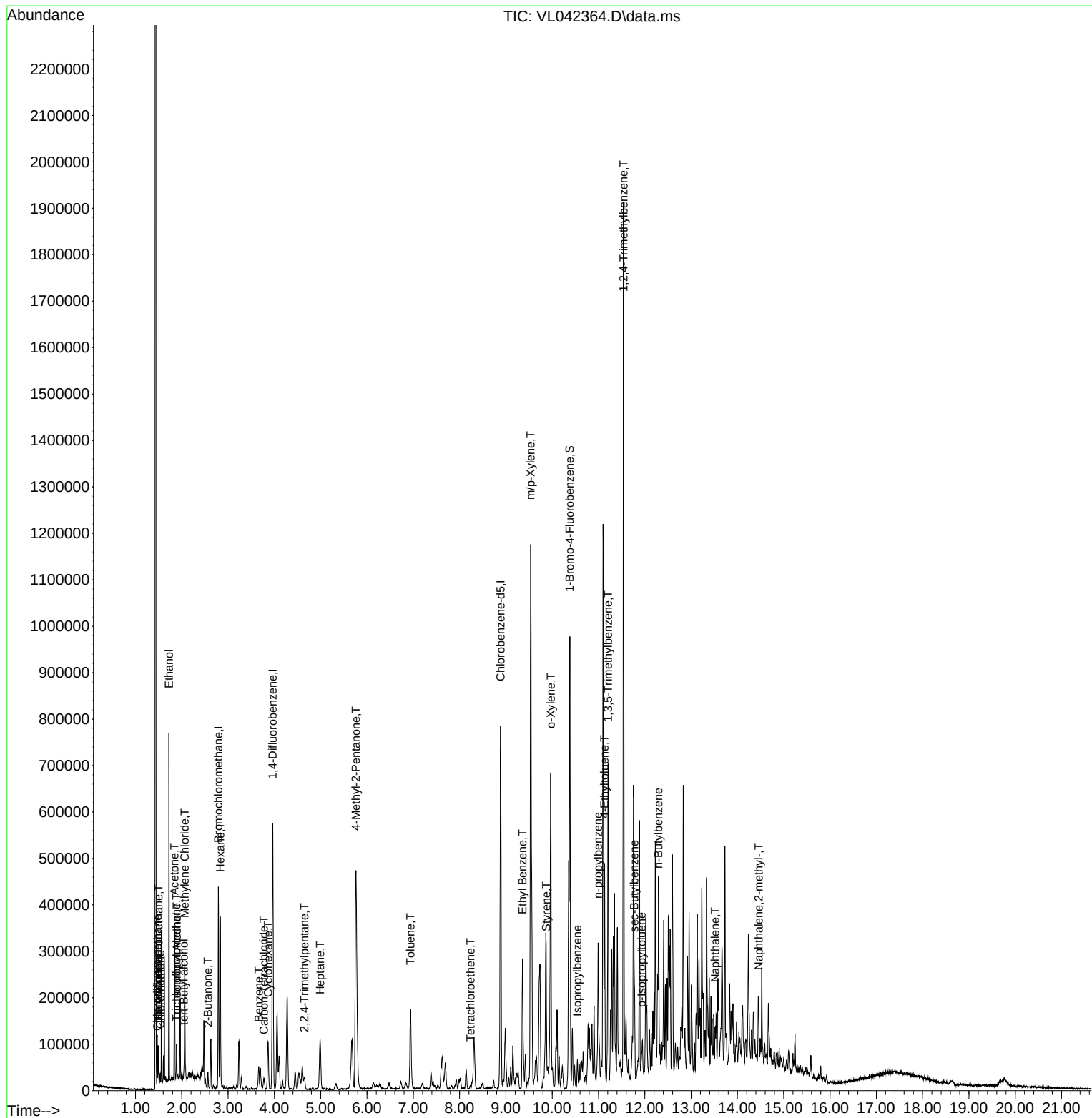
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Data File : VL042364.D
Acq On : 17 Apr 2025 18:58
Operator : SY/MD
Sample : Q1668-04
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

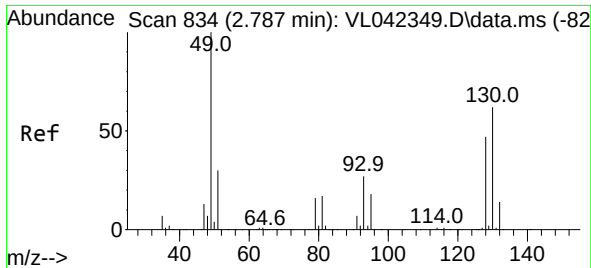
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 02:41:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration





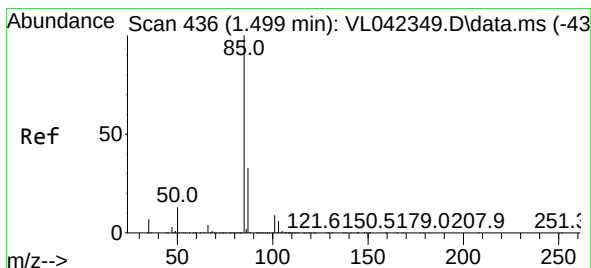
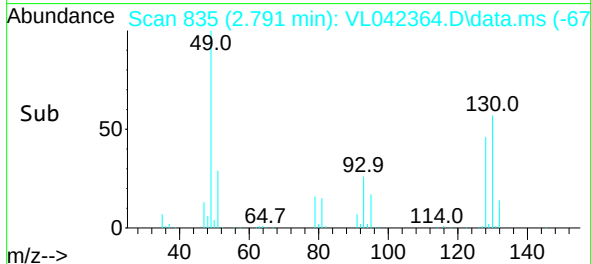
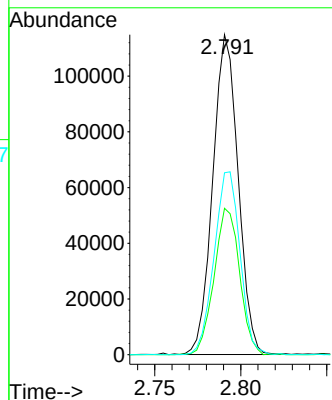
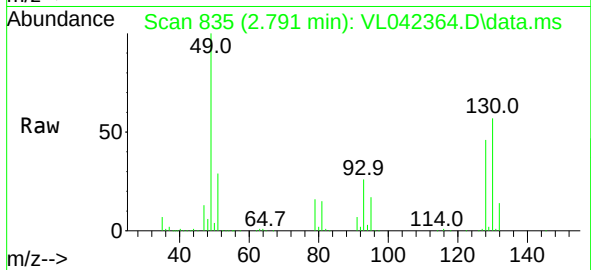
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Bromochloromethane
Concen: 10.000 ppbv
RT: 2.791 min Scan# 81
Delta R.T. 0.004 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

Tgt Ion: 49 Resp: 11769
Ion Ratio Lower Upper
49 100
128 46.1 22.8 68.4
130 58.4 29.3 88.0

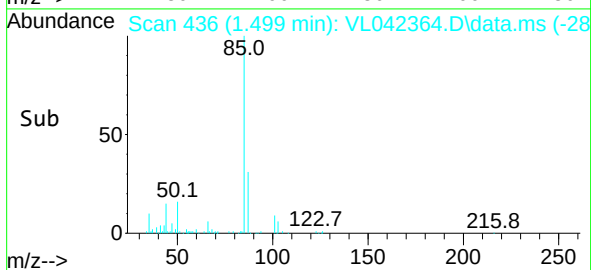
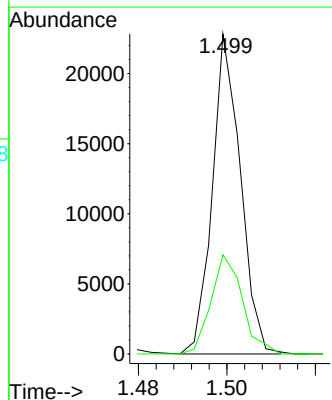
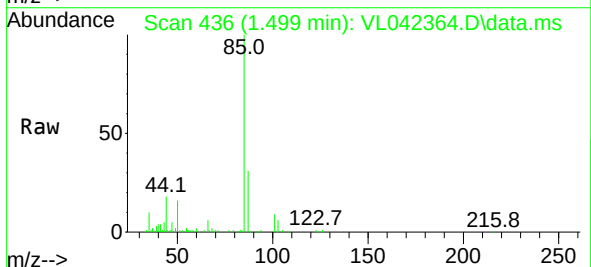
Manual Integrations
APPROVED

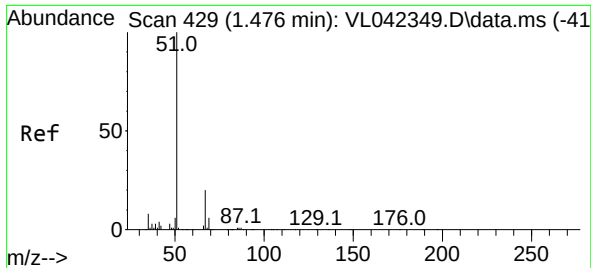
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#2
Dichlorodifluoromethane
Concen: 0.484 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion: 85 Resp: 10068
Ion Ratio Lower Upper
85 100
87 31.0 26.6 39.8





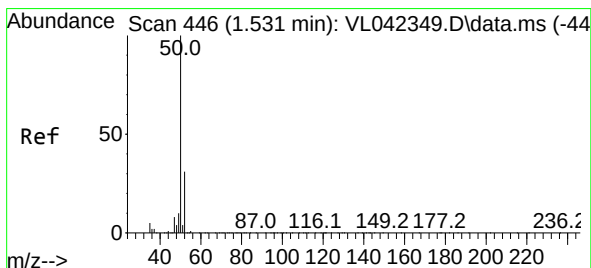
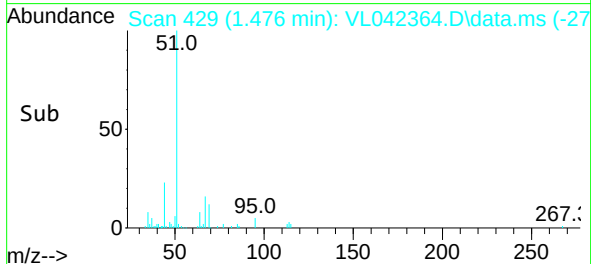
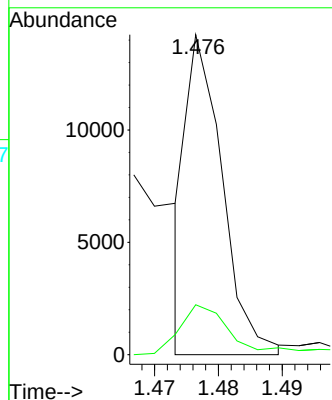
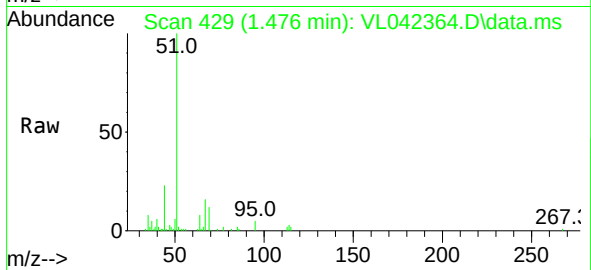
#3
Chlorodifluoromethane
Concen: 0.277 ppbv m
RT: 1.476 min Scan# 429
Delta R.T. 0.000 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

Tgt Ion: 51 Resp: 549
Ion Ratio Lower Upper
51 100
67 6.1 16.2 24.4

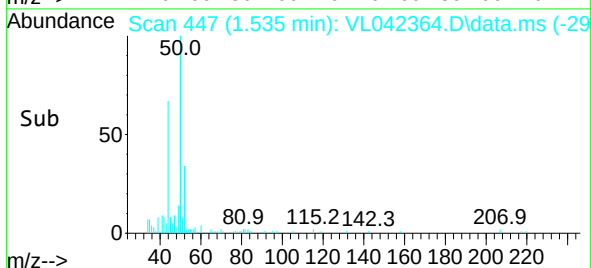
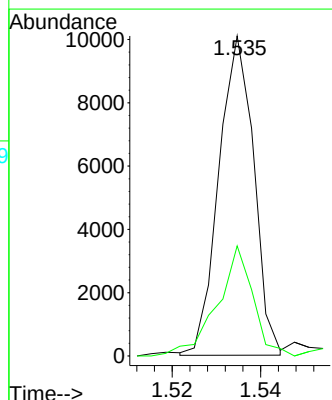
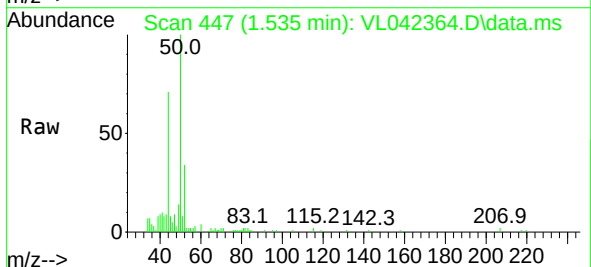
Manual Integrations
APPROVED

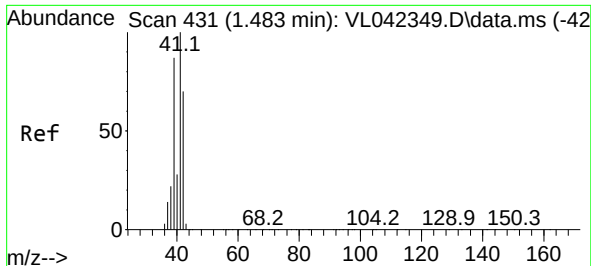
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#4
Chloromethane
Concen: 0.672 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.004 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

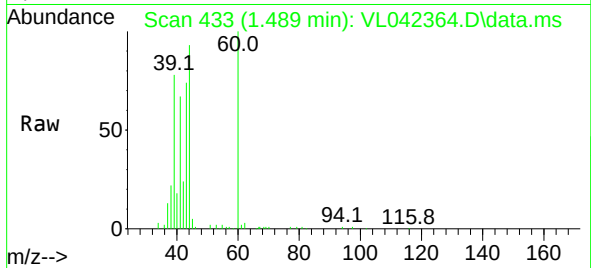
Tgt Ion: 50 Resp: 5532
Ion Ratio Lower Upper
50 100
52 33.4 24.7 37.1





#9
 Propene
 Concen: 0.817 ppbv m
 RT: 1.489 min Scan# 41
 Delta R.T. 0.007 min
 Lab File: VL042364.D
 Acq: 17 Apr 2025 18:58

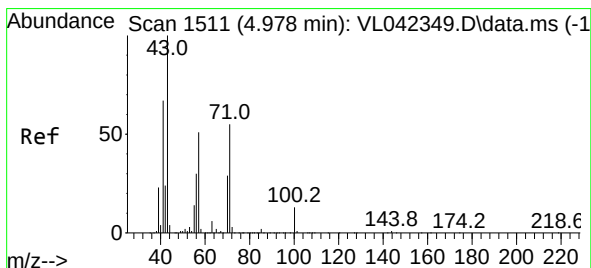
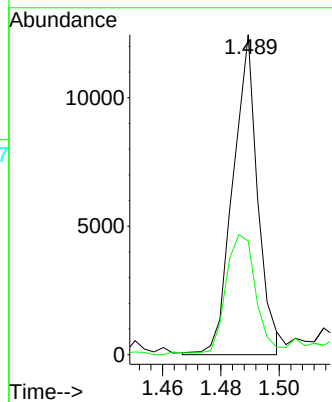
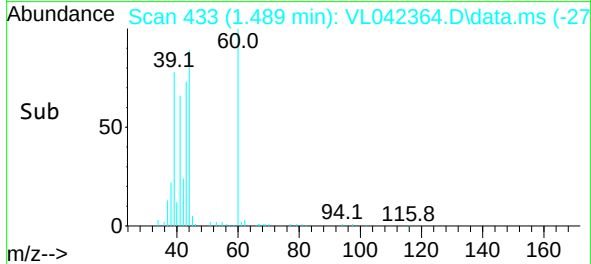
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B1-1-3252025



Tgt Ion: 41 Resp: 736
 Ion Ratio Lower Upper
 41 100
 42 303.3 56.2 84.4

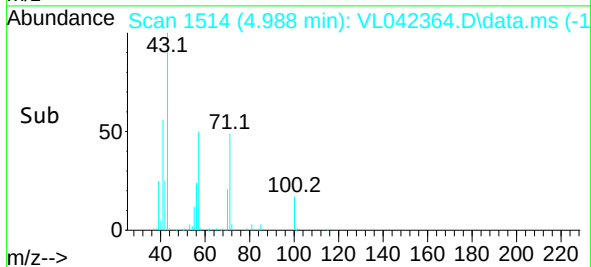
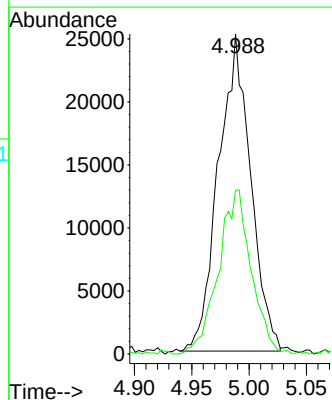
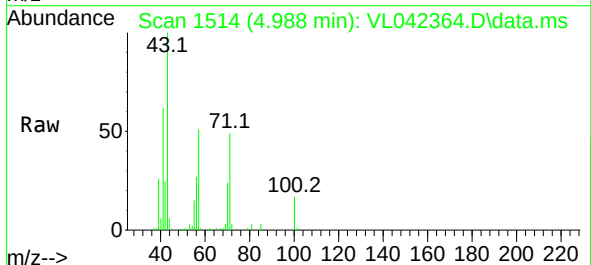
Manual Integrations
 APPROVED

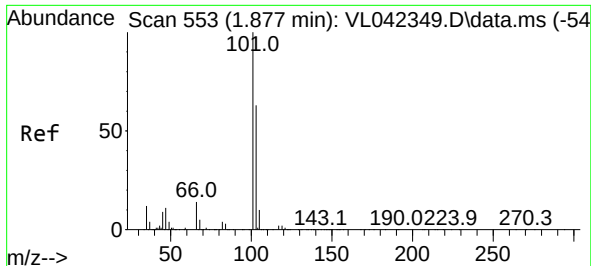
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#10
 Heptane
 Concen: 1.934 ppbv
 RT: 4.988 min Scan# 1514
 Delta R.T. 0.010 min
 Lab File: VL042364.D
 Acq: 17 Apr 2025 18:58

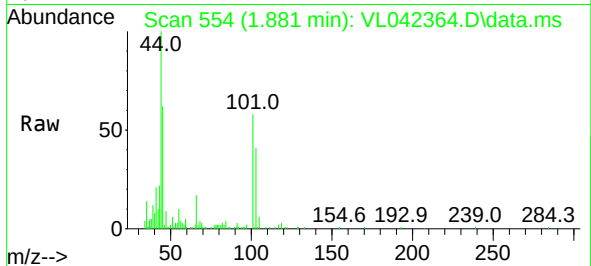
Tgt Ion: 43 Resp: 48989
 Ion Ratio Lower Upper
 43 100
 57 53.3 39.9 59.9





#11
Trichlorofluoromethane
Concen: 0.237 ppbv
RT: 1.881 min Scan# 505
Delta R.T. 0.004 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

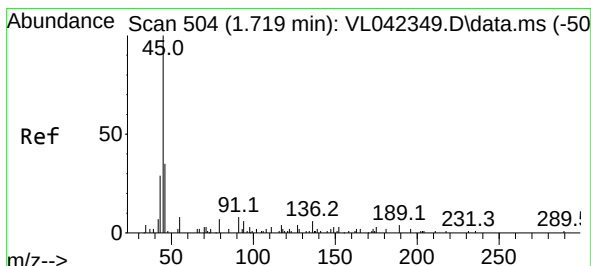
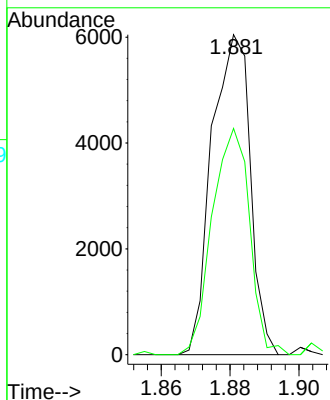
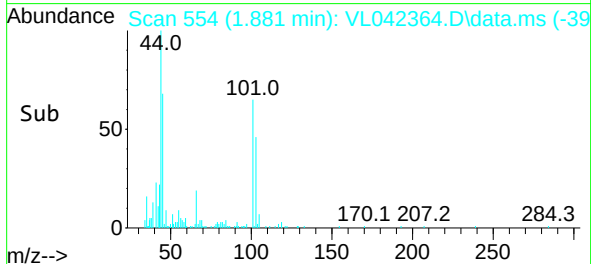
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025



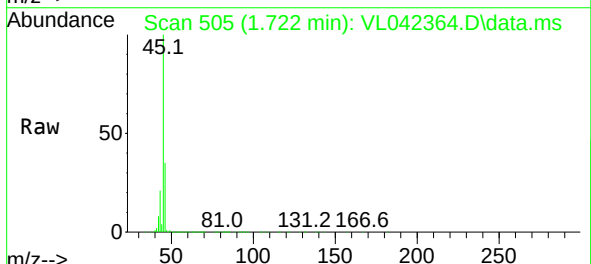
Tgt Ion:101 Resp: 4688
Ion Ratio Lower Upper
101 100
103 70.7 50.1 75.1

Manual Integrations
APPROVED

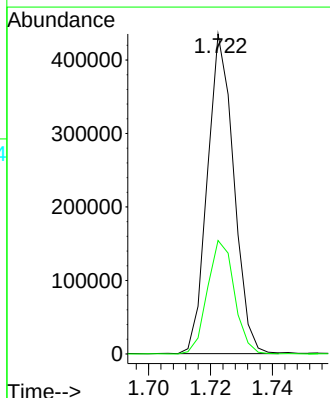
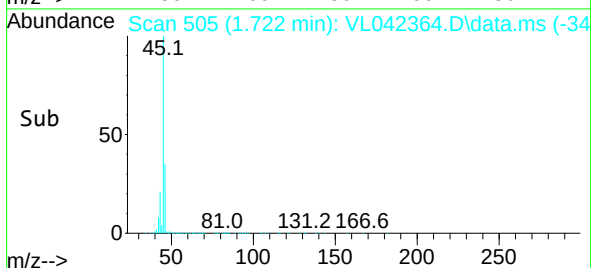
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

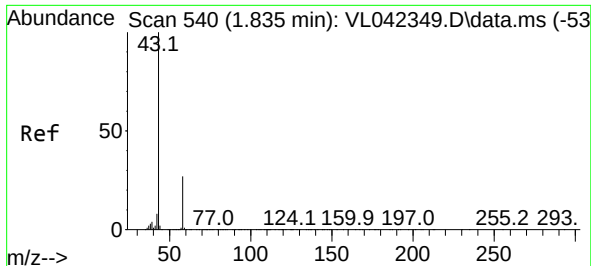


#13
Ethanol
Concen: 179.643 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.004 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58



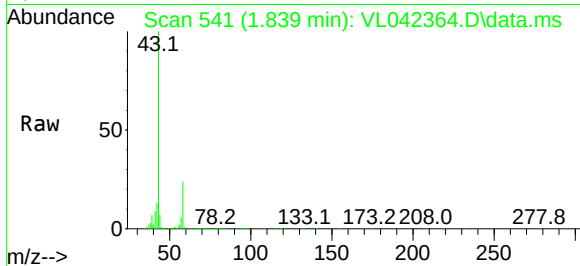
Tgt Ion: 45 Resp: 257475
Ion Ratio Lower Upper
45 100
46 36.4 21.9 87.7





#15
Acetone
Concen: 7.299 ppbv
RT: 1.839 min Scan# 540
Delta R.T. 0.004 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

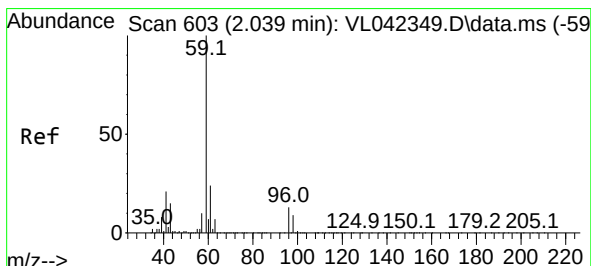
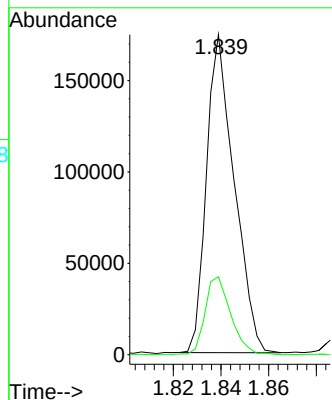
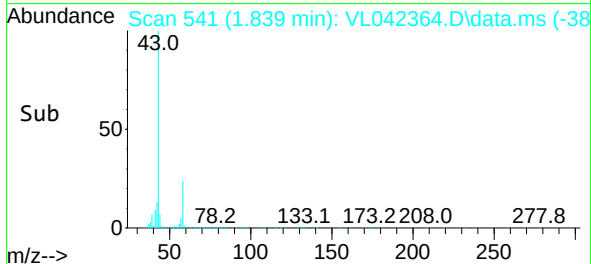
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025



Tgt Ion: 43 Resp: 140628
Ion Ratio Lower Upper
43 100
58 22.9 22.4 33.6

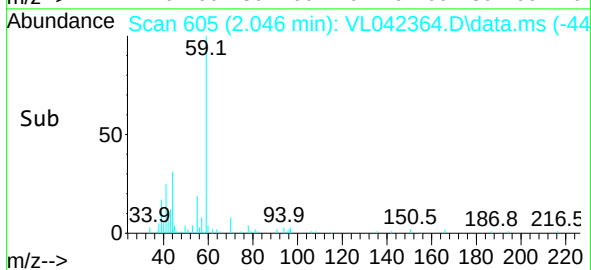
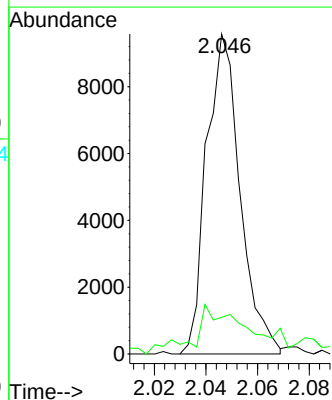
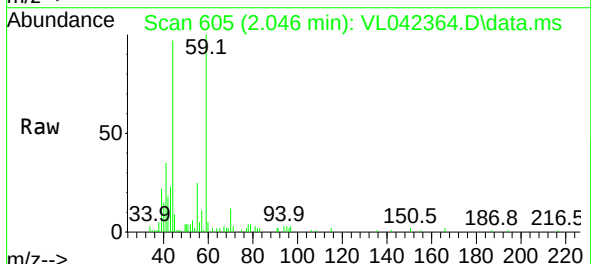
Manual Integrations
APPROVED

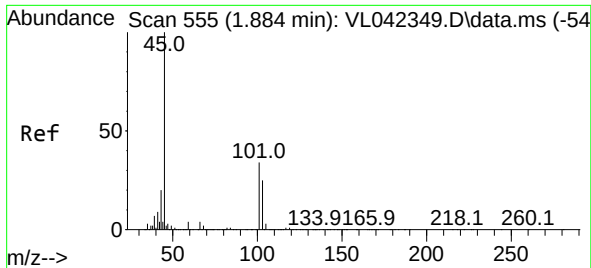
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#17
tert-Butyl alcohol
Concen: 0.364 ppbv
RT: 2.046 min Scan# 605
Delta R.T. 0.007 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

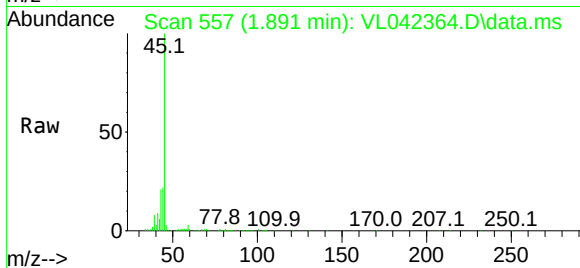
Tgt Ion: 59 Resp: 8687
Ion Ratio Lower Upper
59 100
57 27.5 8.7 13.1#





#19
Isopropyl Alcohol
Concen: 3.132 ppbv
RT: 1.891 min Scan# 511
Delta R.T. 0.007 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

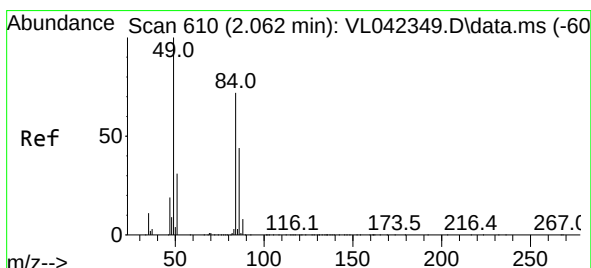
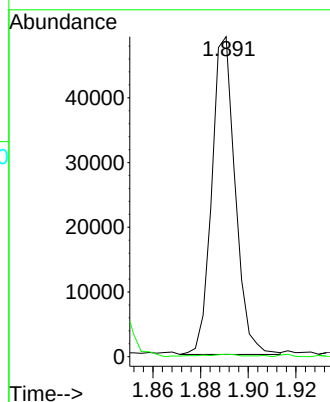
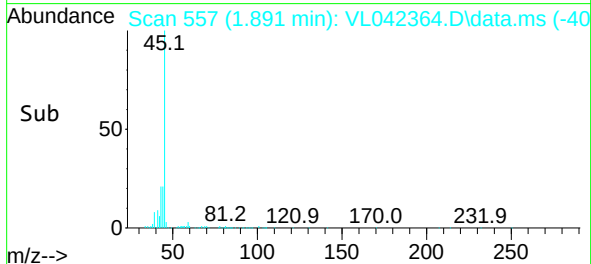
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025



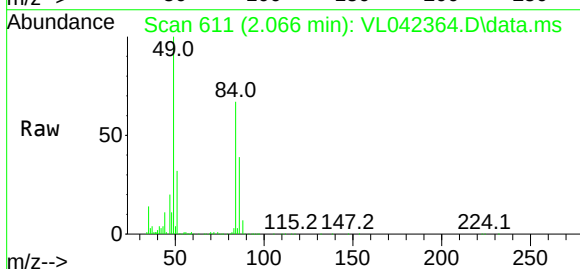
Tgt Ion: 45 Resp: 33520
Ion Ratio Lower Upper
45 100
58 96.1 34.5 51.7

Manual Integrations
APPROVED

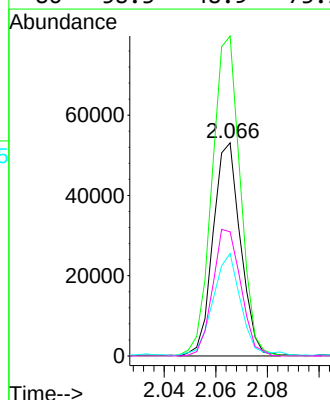
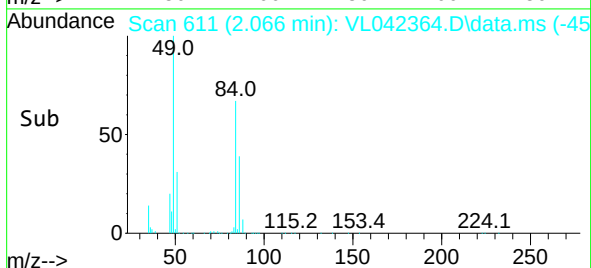
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

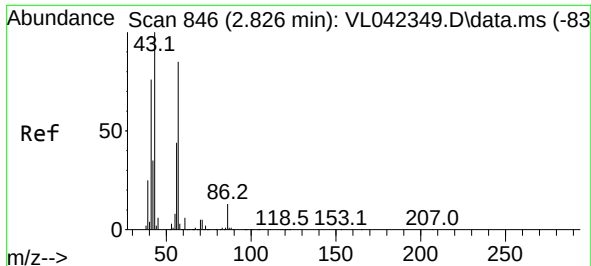


#20
Methylene Chloride
Concen: 5.205 ppbv
RT: 2.066 min Scan# 611
Delta R.T. 0.004 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58



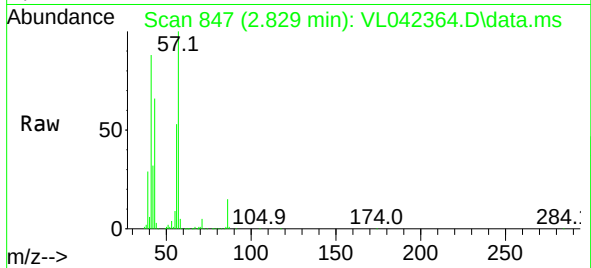
Tgt Ion: 84 Resp: 39273
Ion Ratio Lower Upper
84 100
49 149.8 111.6 167.4
51 47.4 35.1 52.7
86 58.3 48.9 73.3





#26
Hexane
Concen: 4.817 ppbv
RT: 2.829 min Scan# 846
Delta R.T. 0.004 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

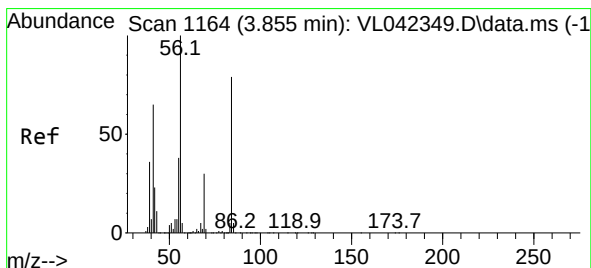
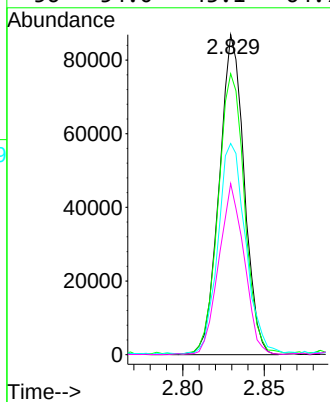
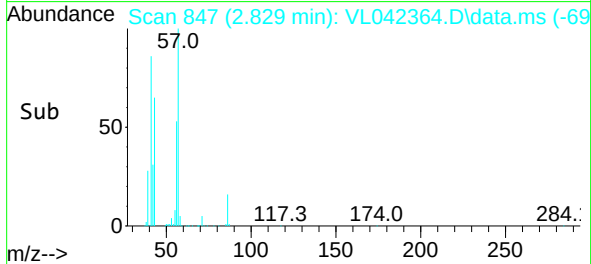
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025



Tgt Ion: 57 Resp: 9259
Ion Ratio Lower Upper
57 100
41 92.9 77.9 116.9
43 73.0 208.4 312.6
56 54.0 43.1 64.7

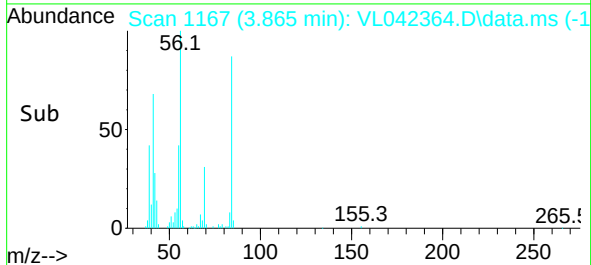
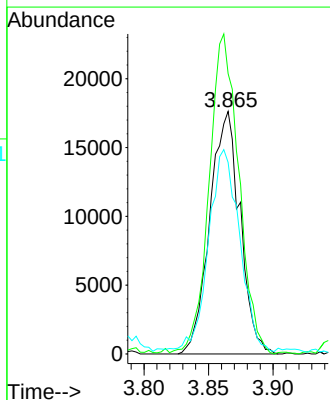
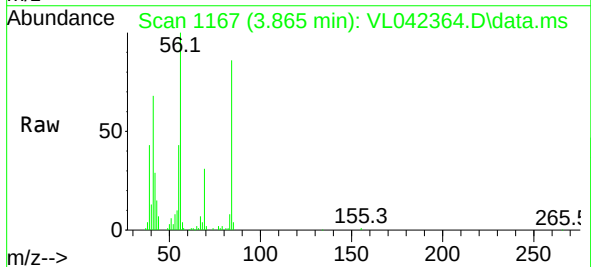
Manual Integrations
APPROVED

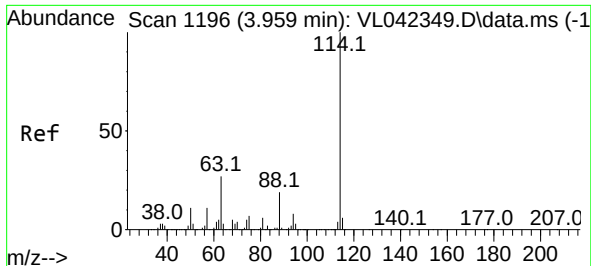
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#30
Cyclohexane
Concen: 1.845 ppbv
RT: 3.865 min Scan# 1167
Delta R.T. 0.010 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion: 84 Resp: 28679
Ion Ratio Lower Upper
84 100
56 129.9 101.0 151.4
41 86.0 67.4 101.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. 0.004 min

Lab File: VL042364.D

Acq: 17 Apr 2025 18:58

Instrument :

MSVOA_L

ClientSampleId :

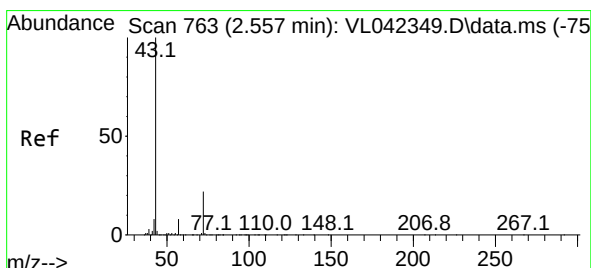
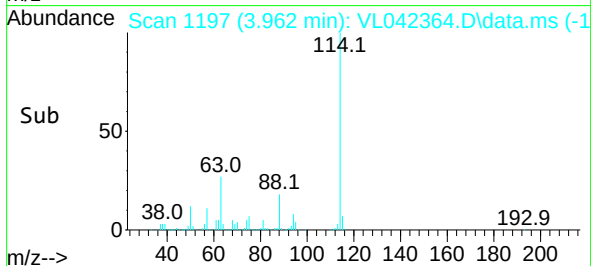
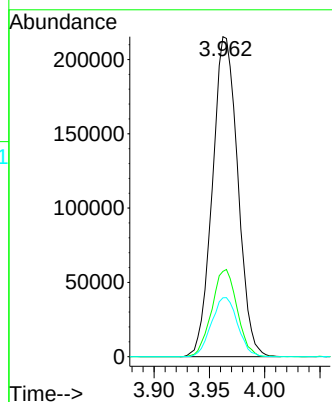
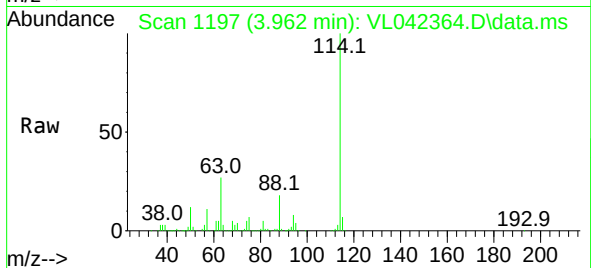
IA-B1-1-3252025

Tgt Ion:114	Resp: 34313
Ion Ratio	Lower Upper
114 100	
63 27.3	21.8 32.6
88 19.0	15.5 23.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#34

2-Butanone

Concen: 0.825 ppbv

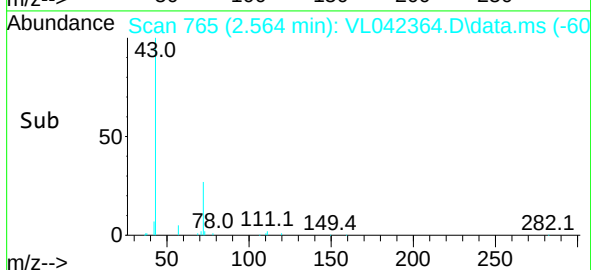
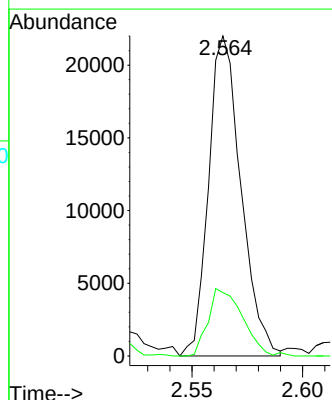
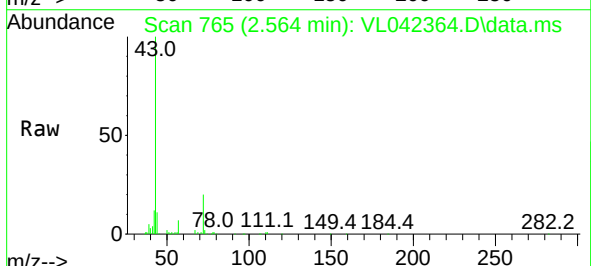
RT: 2.564 min Scan# 765

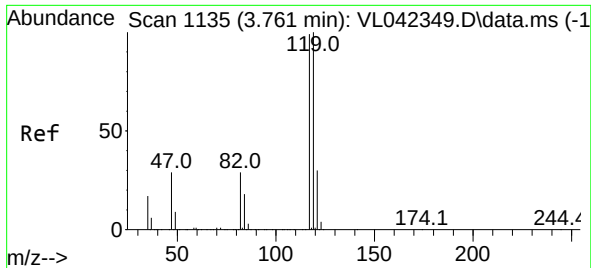
Delta R.T. 0.007 min

Lab File: VL042364.D

Acq: 17 Apr 2025 18:58

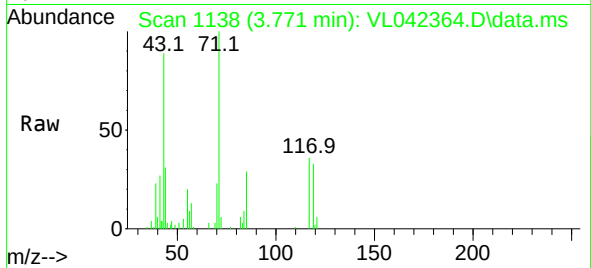
Tgt Ion: 43	Resp: 22380
Ion Ratio	Lower Upper
43 100	
72 22.4	18.2 27.2





#35
Carbon Tetrachloride
Concen: 0.073 ppbv m
RT: 3.771 min Scan# 1135
Delta R.T. 0.010 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

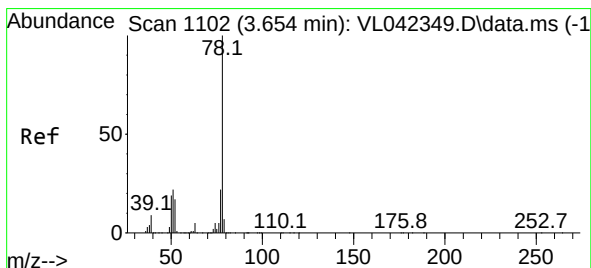
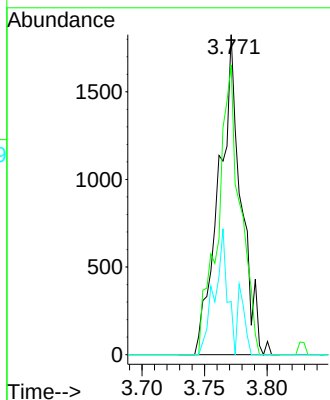
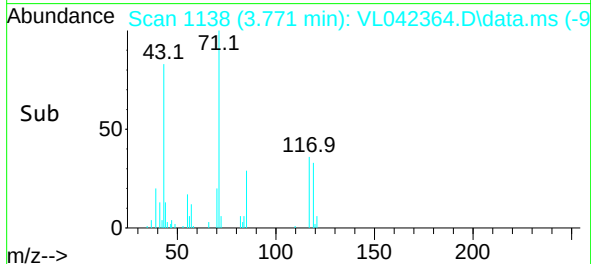
Instrument : MSVOA_L
ClientSampleId : IA-B1-1-3252025



Tgt Ion: 117 Resp: 226
Ion Ratio Lower Upper
117 100
119 90.5 80.5 120.7
121 16.6 24.2 36.2

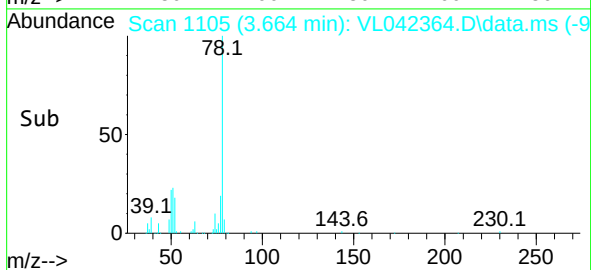
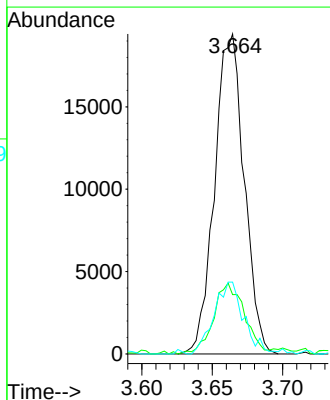
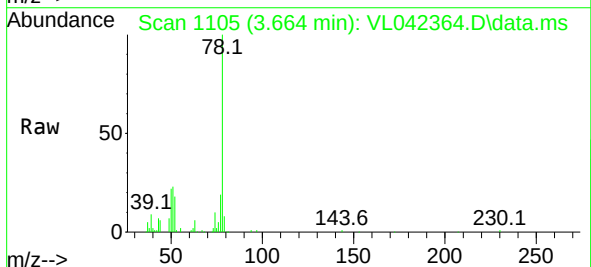
Manual Integrations
APPROVED

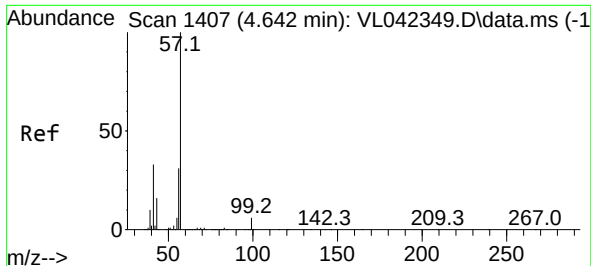
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#36
Benzene
Concen: 0.768 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. 0.010 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

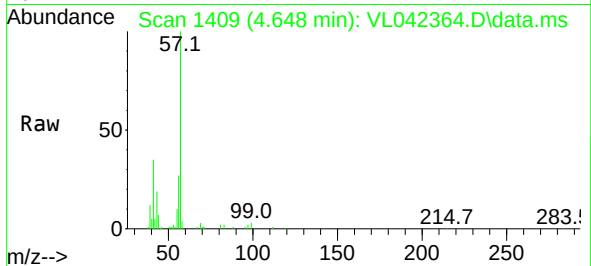
Tgt Ion: 78 Resp: 28409
Ion Ratio Lower Upper
78 100
77 18.5 17.4 26.0
50 21.7 15.5 23.3





#44
2,2,4-Trimethylpentane
Concen: 0.369 ppbv m
RT: 4.648 min Scan# 1407
Delta R.T. 0.007 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

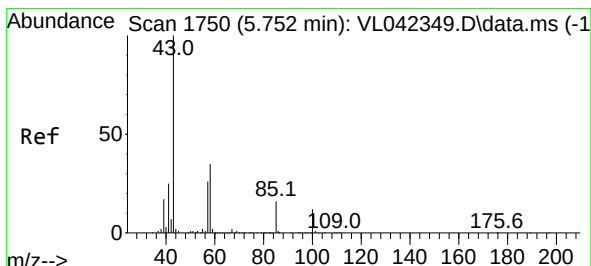
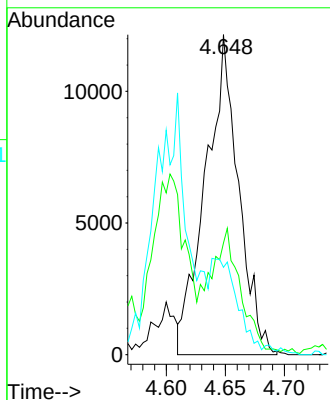
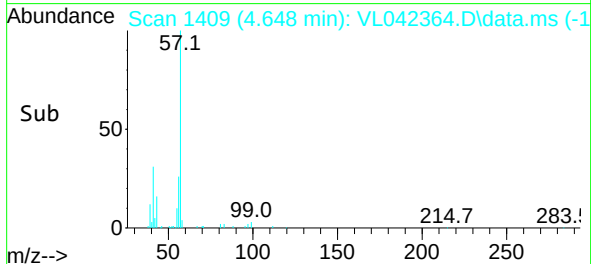
Instrument : MSVOA_L
ClientSampleId : IA-B1-1-3252025



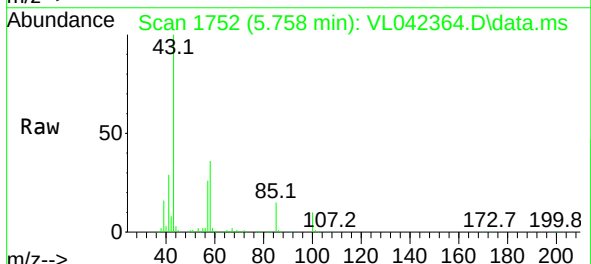
Tgt Ion: 57 Resp: 2361
Ion Ratio Lower Upper
57 100
41 32.4 27.2 40.8
56 0.0 25.7 38.5

Manual Integrations
APPROVED

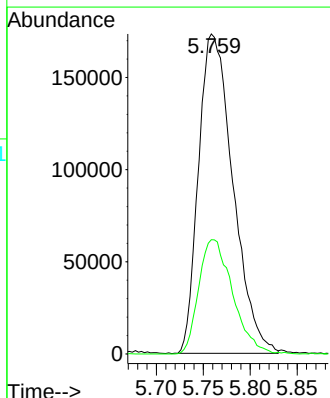
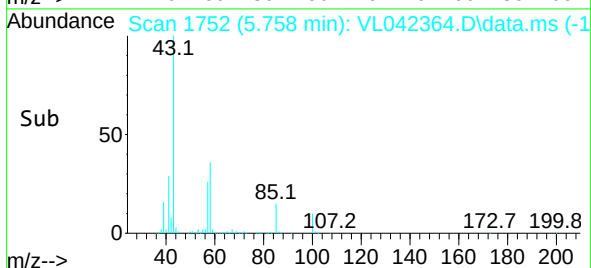
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

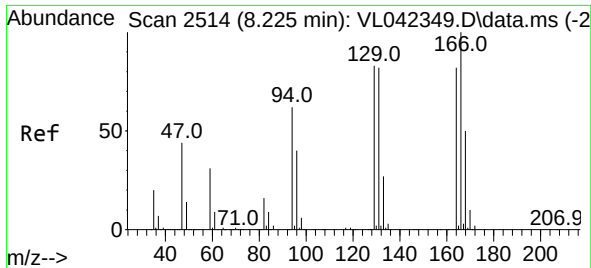


#50
4-Methyl-2-Pentanone
Concen: 9.785 ppbv
RT: 5.758 min Scan# 1752
Delta R.T. 0.007 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58



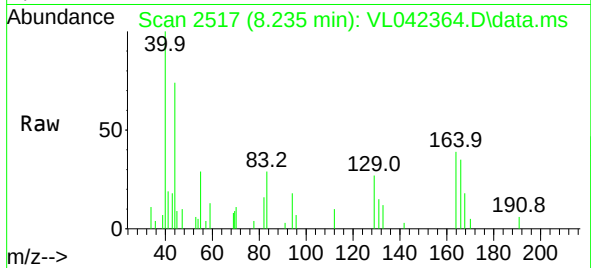
Tgt Ion: 43 Resp: 441281
Ion Ratio Lower Upper
43 100
58 35.4 28.6 43.0





#52
Tetrachloroethene
Concen: 0.050 ppbv m
RT: 8.235 min Scan# 2117
Delta R.T. 0.010 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

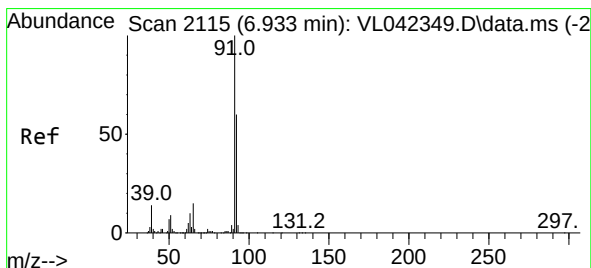
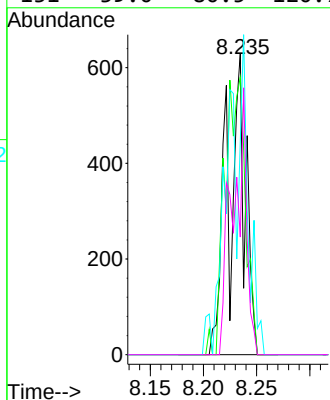
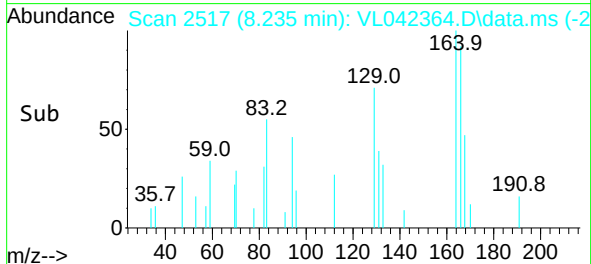
Instrument : MSVOA_L
ClientSampleId : IA-B1-1-3252025



Tgt Ion: 164 Resp: 715
Ion Ratio Lower Upper
164 100
166 92.1 98.2 147.2
129 70.8 81.8 122.8
131 39.0 80.5 120.7

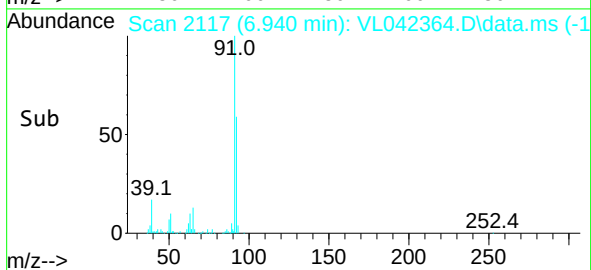
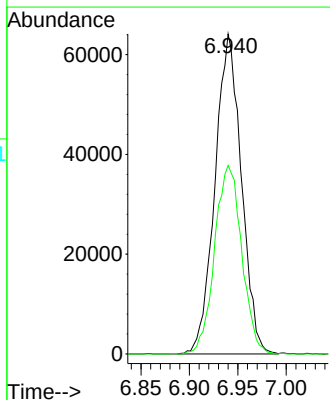
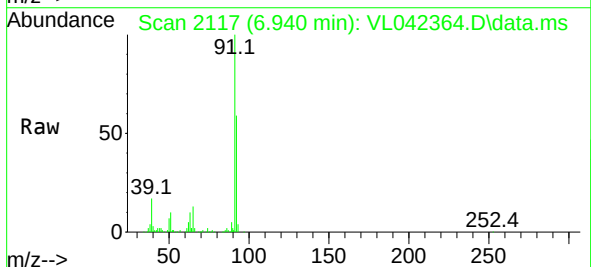
Manual Integrations
APPROVED

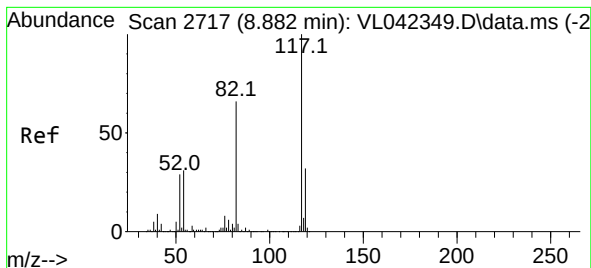
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#53
Toluene
Concen: 2.738 ppbv
RT: 6.940 min Scan# 2117
Delta R.T. 0.007 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion: 91 Resp: 121585
Ion Ratio Lower Upper
91 100
92 60.5 48.2 72.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.885 min Scan# 2717

Delta R.T. 0.004 min

Lab File: VL042364.D

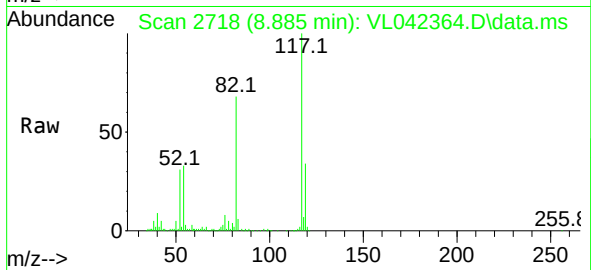
Acq: 17 Apr 2025 18:58

Instrument :

MSVOA_L

ClientSampleId :

IA-B1-1-3252025



Tgt Ion: 117 Resp: 303219

Ion Ratio Lower Upper

117 100

82 69.1 57.8 86.6

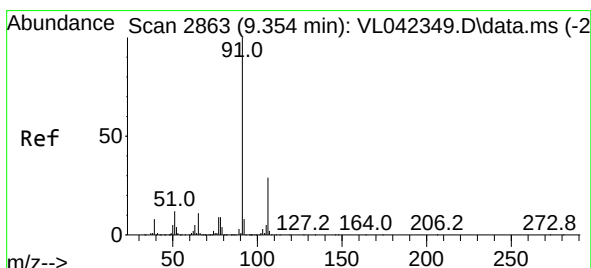
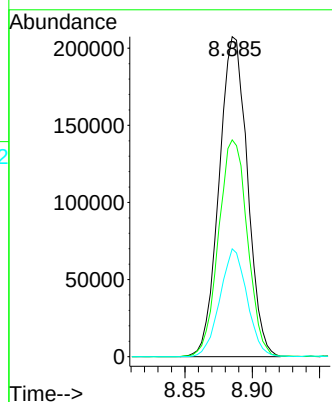
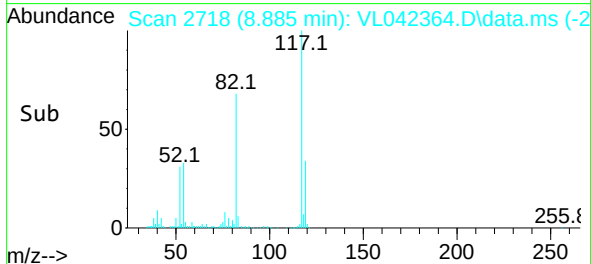
119 32.4 25.2 37.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#58

Ethyl Benzene

Concen: 2.603 ppbv

RT: 9.358 min Scan# 2864

Delta R.T. 0.004 min

Lab File: VL042364.D

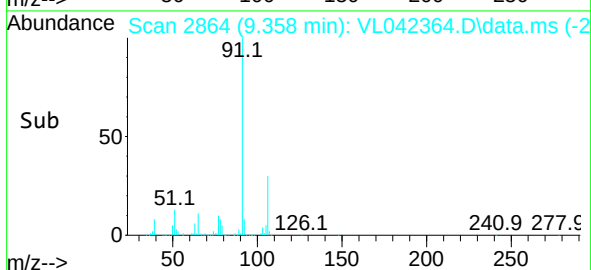
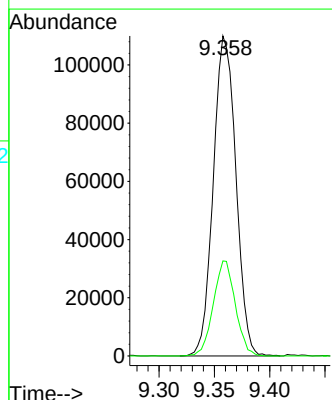
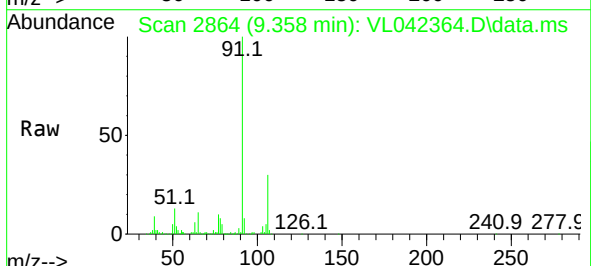
Acq: 17 Apr 2025 18:58

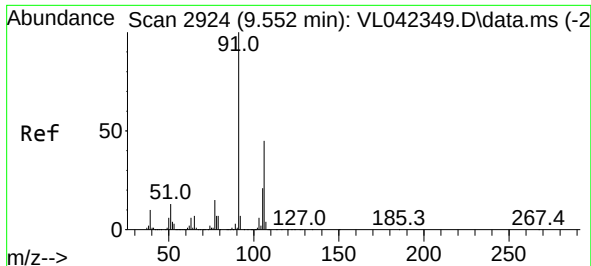
Tgt Ion: 91 Resp: 156392

Ion Ratio Lower Upper

91 100

106 29.7 23.0 34.4





#59

m/p-Xylene

Concen: 14.596 ppbv

RT: 9.536 min Scan# 2919

Delta R.T. -0.016 min

Lab File: VL042364.D

Acq: 17 Apr 2025 18:58

Instrument :

MSVOA_L

ClientSampleId :

IA-B1-1-3252025

Tgt Ion: 91 Resp: 70639

Ion Ratio Lower Upper

91 100

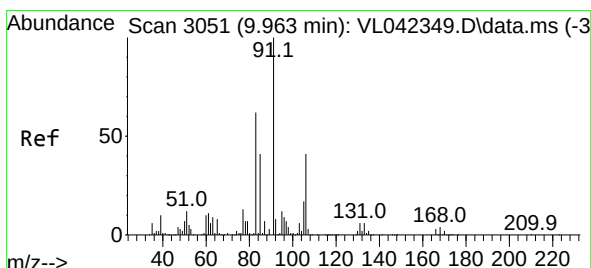
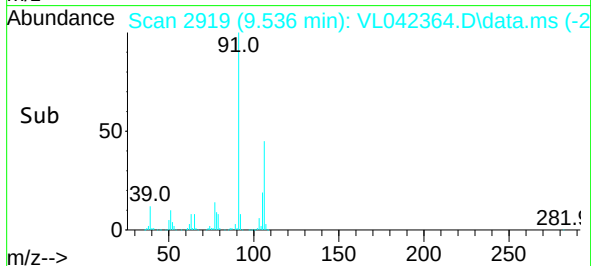
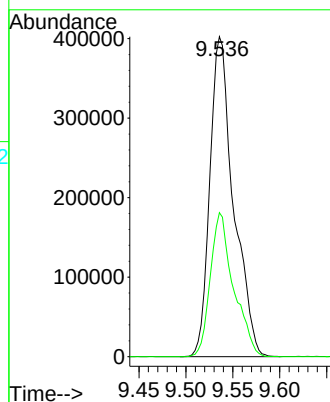
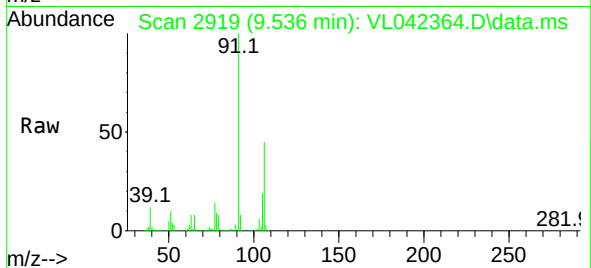
106 44.2 35.4 53.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#60

o-Xylene

Concen: 6.183 ppbv

RT: 9.969 min Scan# 3053

Delta R.T. 0.007 min

Lab File: VL042364.D

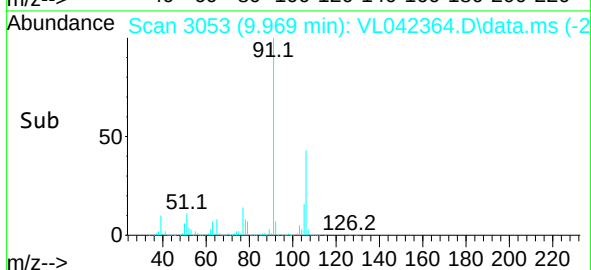
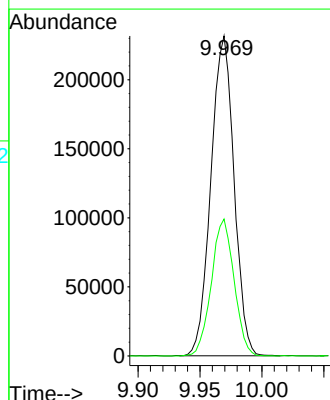
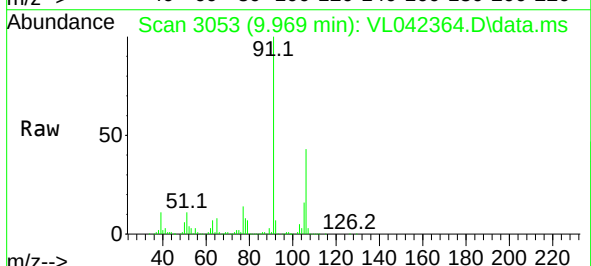
Acq: 17 Apr 2025 18:58

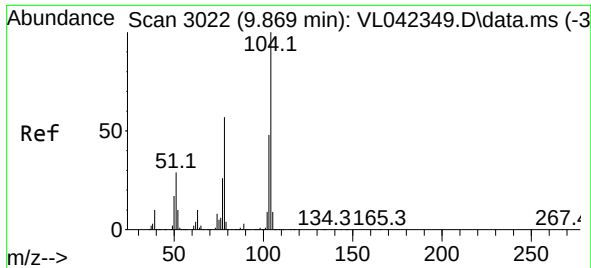
Tgt Ion: 91 Resp: 301328

Ion Ratio Lower Upper

91 100

106 42.0 21.1 63.4





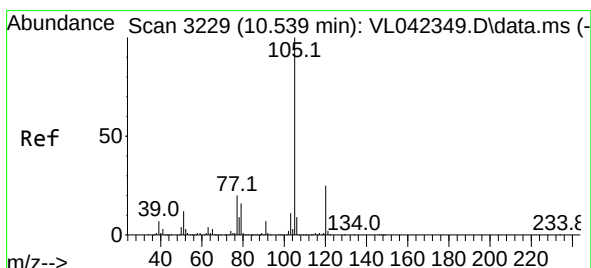
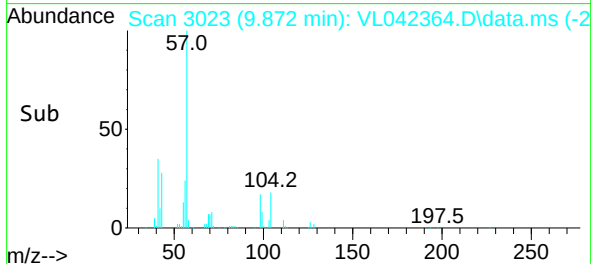
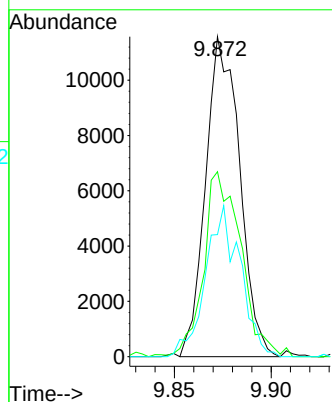
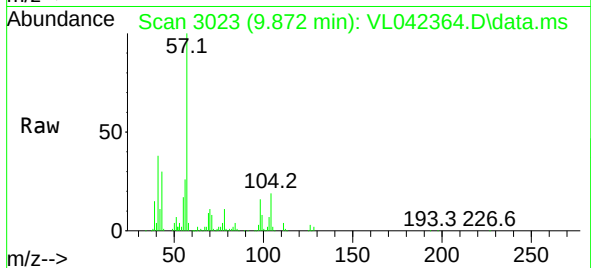
#61
Styrene
Concen: 0.609 ppbv
RT: 9.872 min Scan# 3022
Delta R.T. 0.004 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

Tgt Ion:104 Resp: 14150
Ion Ratio Lower Upper
104 100
78 63.7 44.6 66.8
103 48.0 37.4 56.0

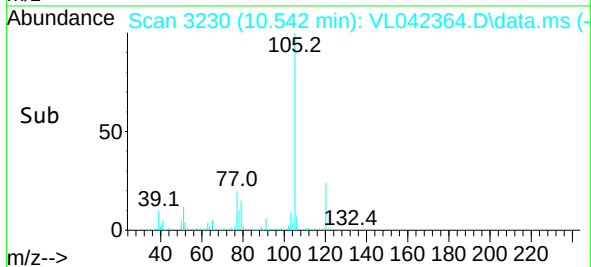
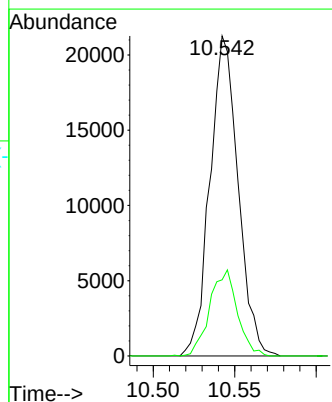
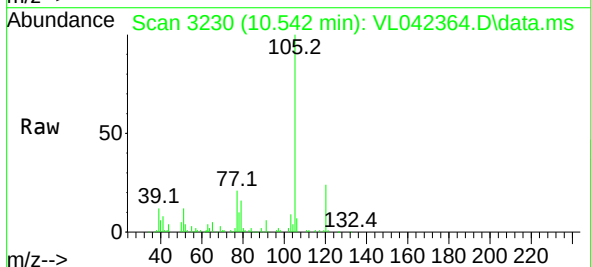
Manual Integrations
APPROVED

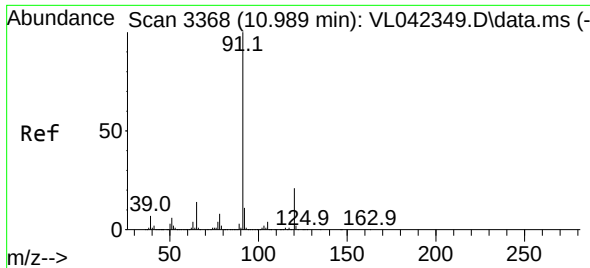
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#62
Isopropylbenzene
Concen: 0.357 ppbv
RT: 10.542 min Scan# 3230
Delta R.T. 0.004 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

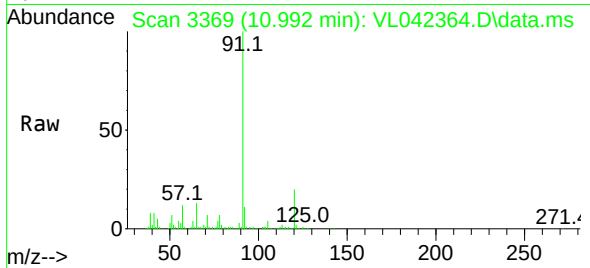
Tgt Ion:105 Resp: 25514
Ion Ratio Lower Upper
105 100
120 26.4 19.8 29.8





#64
n-propylbenzene
Concen: 1.536 ppbv
RT: 10.992 min Scan# 310
Delta R.T. 0.004 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

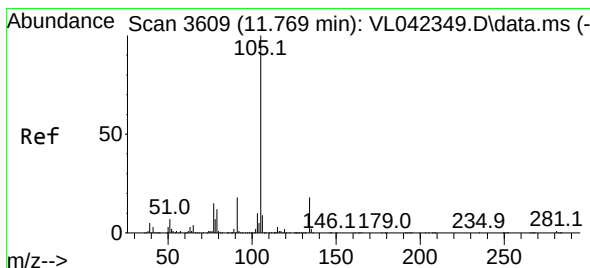
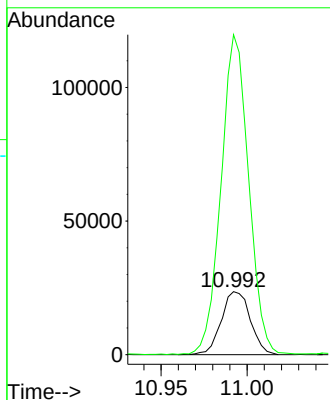
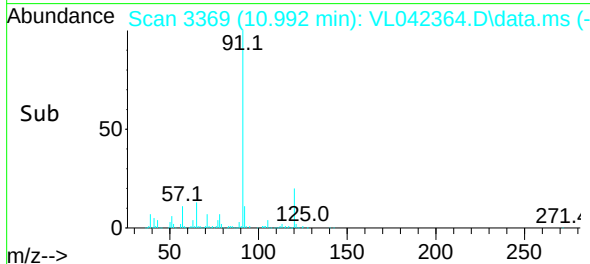
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025



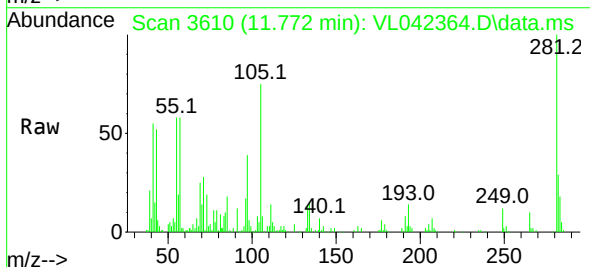
Tgt Ion:120 Resp: 27632
Ion Ratio Lower Upper
120 100
91 483.8 392.4 588.6

Manual Integrations
APPROVED

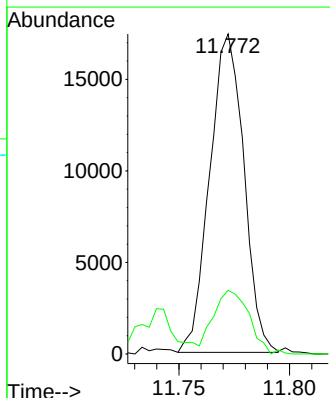
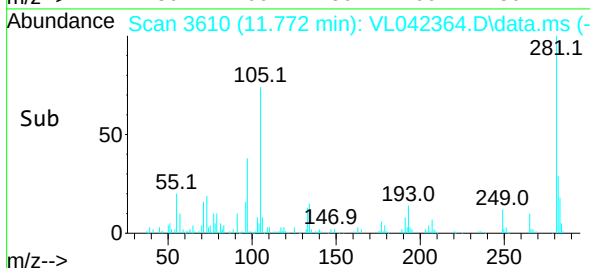
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

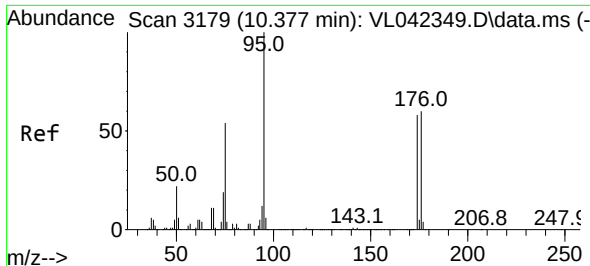


#67
sec-Butylbenzene
Concen: 0.204 ppbv
RT: 11.772 min Scan# 3610
Delta R.T. 0.004 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58



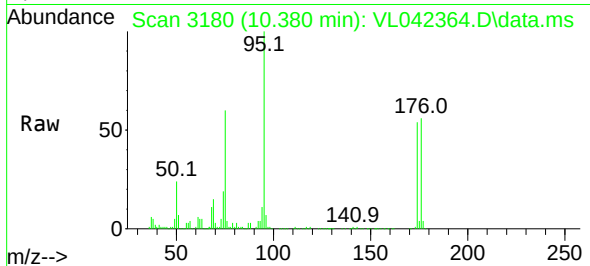
Tgt Ion:105 Resp: 18674
Ion Ratio Lower Upper
105 100
134 20.8 14.6 21.8





#68
1-Bromo-4-Fluorobenzene
Concen: 9.938 ppbv
RT: 10.380 min Scan# 3179
Delta R.T. 0.004 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

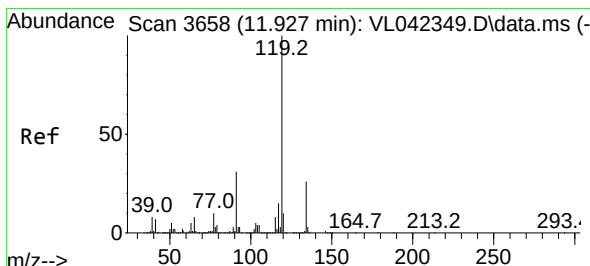
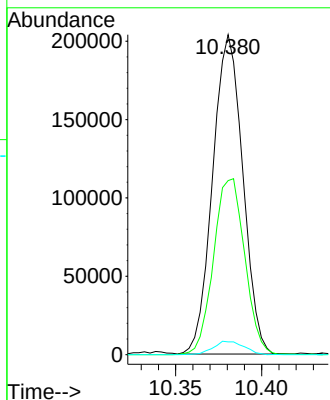
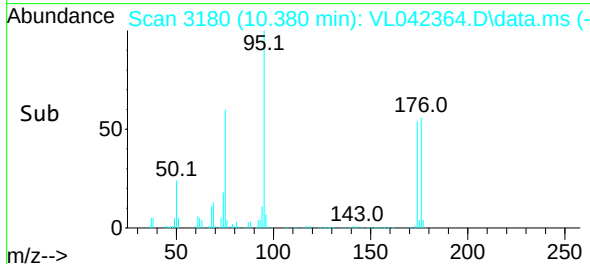
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025



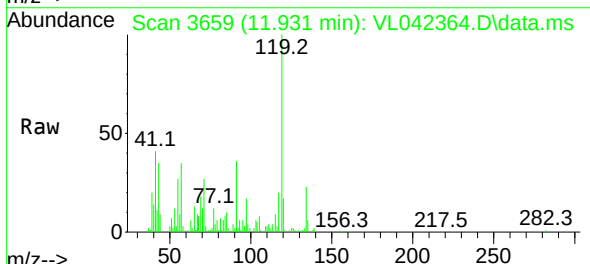
Tgt Ion: 95 Resp: 247619
Ion Ratio Lower Upper
95 100
174 57.3 48.5 72.7
175 4.3 3.7 5.5

Manual Integrations
APPROVED

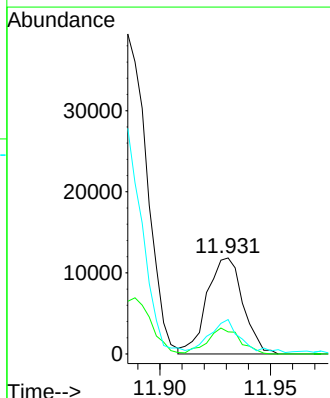
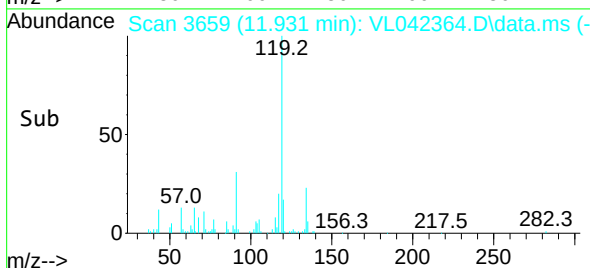
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

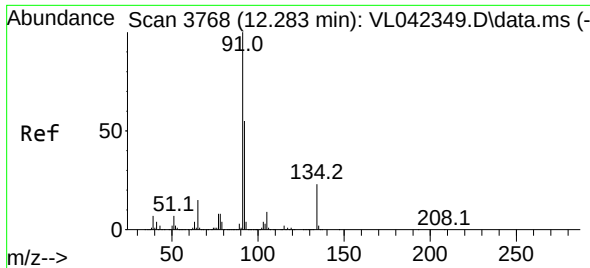


#69
p-Isopropyltoluene
Concen: 0.169 ppbv
RT: 11.931 min Scan# 3659
Delta R.T. 0.004 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58



Tgt Ion:119 Resp: 13409
Ion Ratio Lower Upper
119 100
134 24.4 20.0 30.0
91 31.1 24.4 36.6





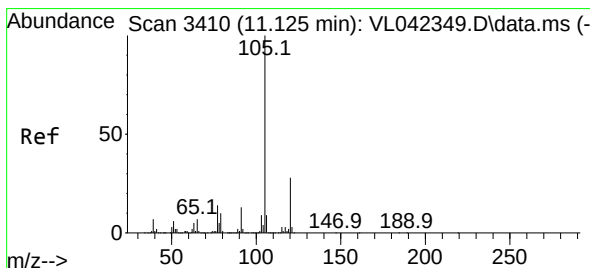
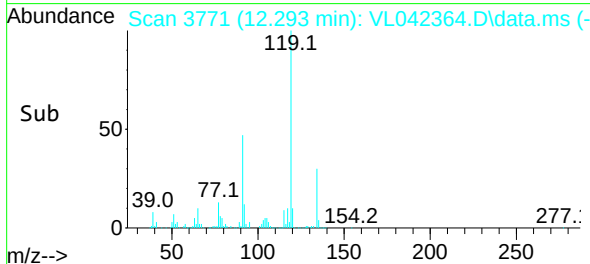
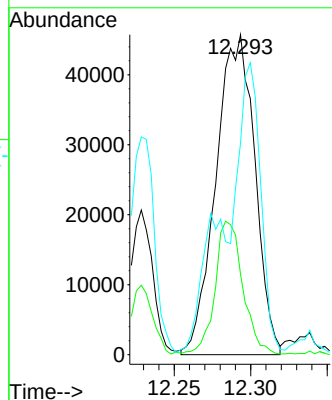
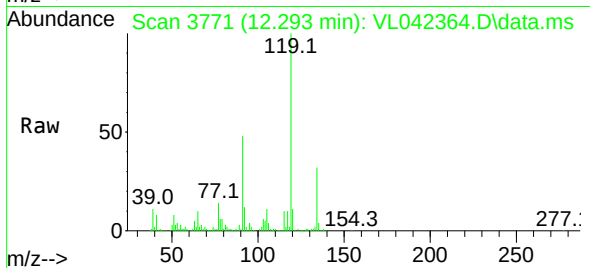
#70
n-Butylbenzene
Concen: 0.978 ppbv m
RT: 12.293 min Scan# 31
Delta R.T. 0.010 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Instrument :
MSVOA_L
ClientSampleId :
LA-B1-1-3252025

Tgt Ion: 91 Resp: 80990
Ion Ratio Lower Upper
91 100
92 30.4 44.2 66.4#
134 0.0 18.2 27.4#

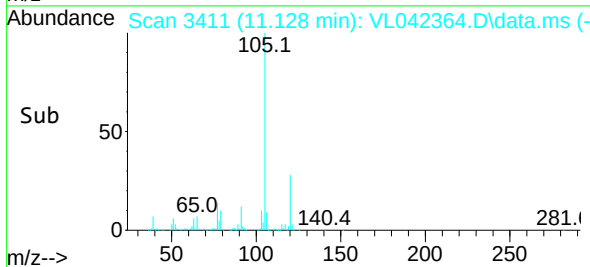
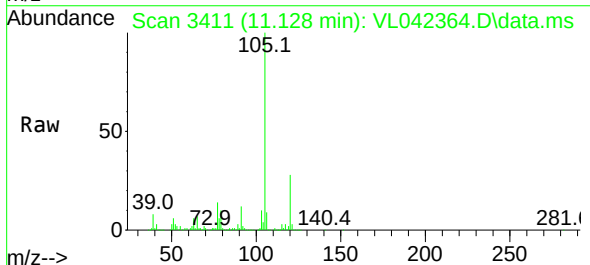
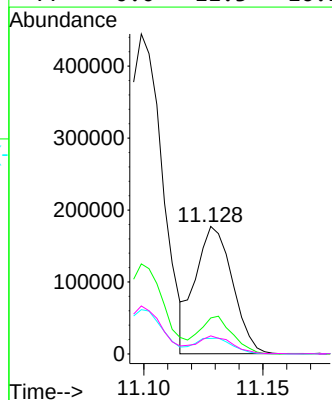
Manual Integrations
APPROVED

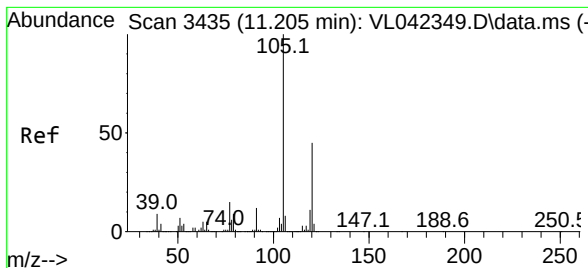
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#72
4-Ethyltoluene
Concen: 3.212 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. 0.004 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion:105 Resp: 191371
Ion Ratio Lower Upper
105 100
120 0.0 23.2 34.8#
91 0.0 10.4 15.6#
77 0.0 11.3 16.9#





#73

1,3,5-Trimethylbenzene

Concen: 3.951 ppbv

RT: 11.209 min Scan# 3435

Delta R.T. 0.004 min

Lab File: VL042364.D

Acq: 17 Apr 2025 18:58

Instrument :

MSVOA_L

ClientSampleId :

IA-B1-1-3252025

Tgt Ion:105 Resp: 207820

Ion Ratio Lower Upper

105 100

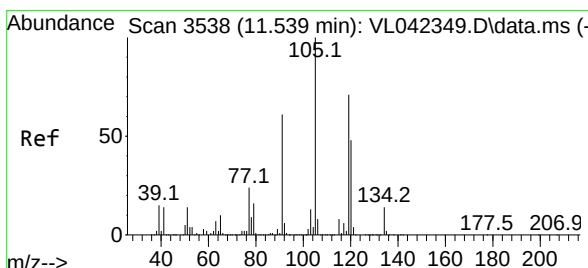
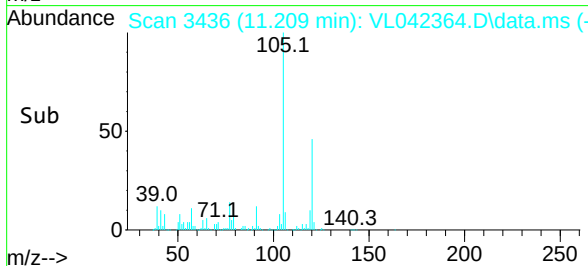
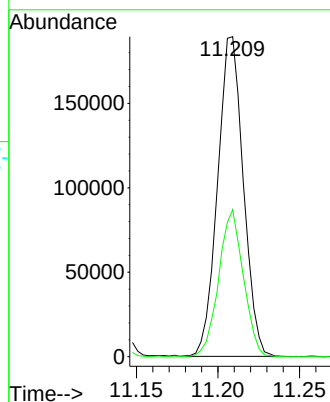
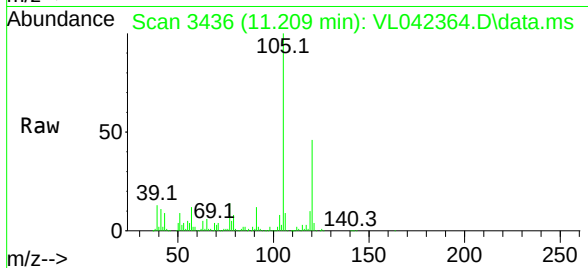
120 45.9 35.6 53.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#74

1,2,4-Trimethylbenzene

Concen: 11.415 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. 0.000 min

Lab File: VL042364.D

Acq: 17 Apr 2025 18:58

Tgt Ion:105 Resp: 701287

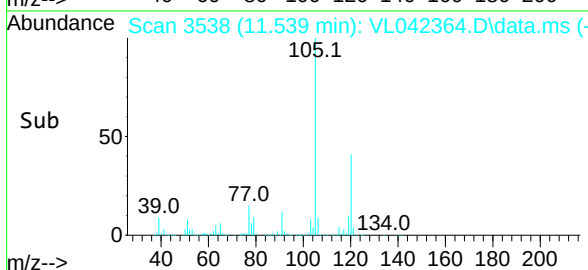
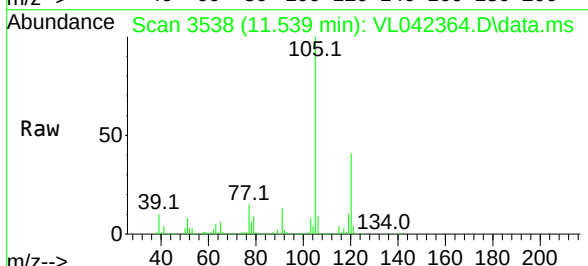
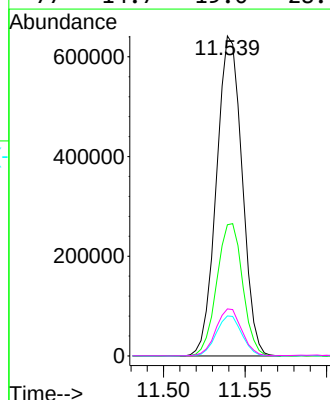
Ion Ratio Lower Upper

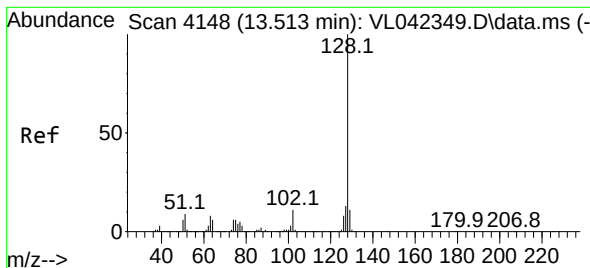
105 100

120 41.0 38.1 57.1

91 12.5 48.8 73.2#

77 14.7 19.0 28.4#





#79

Naphthalene

Concen: 0.491 ppbv

RT: 13.517 min Scan# 4148

Delta R.T. 0.004 min

Lab File: VL042364.D

Acq: 17 Apr 2025 18:58

Instrument :

MSVOA_L

ClientSampleId :

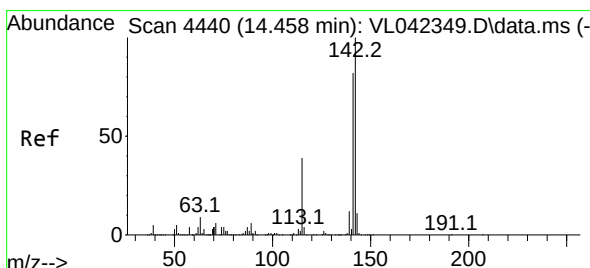
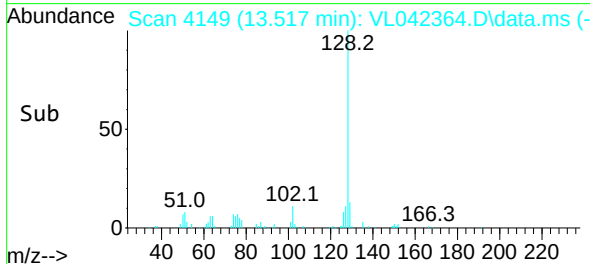
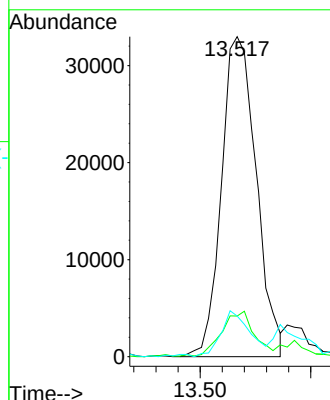
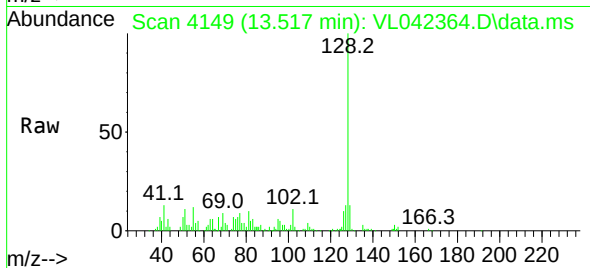
LA-B1-1-3252025

Tgt Ion:	128	Resp:	3605
Ion Ratio	Lower	Upper	
128	100		
127	12.5	10.6	15.8
129	12.0	8.6	12.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#80

Naphthalene,2-methyl-

Concen: 0.335 ppbv

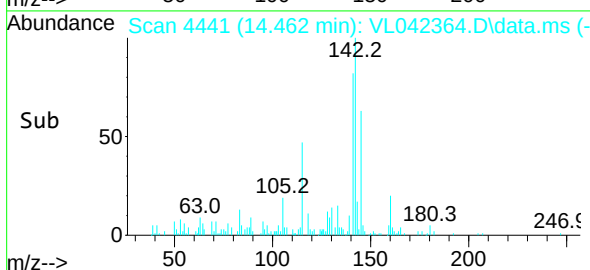
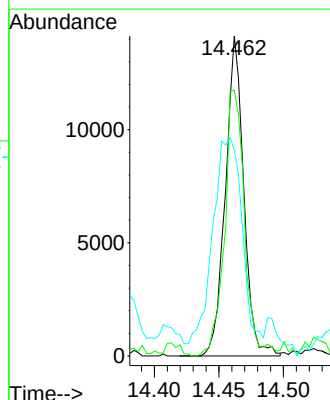
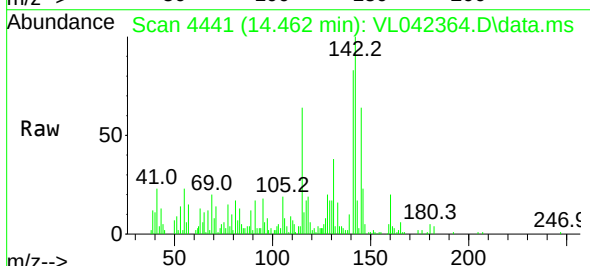
RT: 14.462 min Scan# 4441

Delta R.T. 0.004 min

Lab File: VL042364.D

Acq: 17 Apr 2025 18:58

Tgt Ion:	142	Resp:	14016
Ion Ratio	Lower	Upper	
142	100		
141	90.0	66.8	100.2
115	113.1	33.4	50.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042364.D
 Acq On : 17 Apr 2025 18:58
 Operator : SY/MD
 Sample : Q1668-04
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B1-1-3252025

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 3

Min Area: 3 % of largest Peak

Start Thrs: 0.001

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

Signal : TIC: VL042364.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.431	410	415	421	rBV	4149797	4633093	100.00%	10.435%
2	1.470	424	427	430	rBV2	104544	55900	1.21%	0.126%
3	1.561	451	455	460	rVB	325870	164351	3.55%	0.370%
4	1.622	471	474	478	rVB	267365	141899	3.06%	0.320%
5	1.722	501	505	511	rBV	748457	445609	9.62%	1.004%
6	1.845	535	543	548	rBV2	329873	338063	7.30%	0.761%
7	1.887	548	556	560	rBV2	75922	63419	1.37%	0.143%
8	1.965	576	580	586	rVB	172765	116220	2.51%	0.262%
9	2.066	602	611	615	rBV	249554	217788	4.70%	0.491%
10	2.477	733	738	745	rVB	138280	139694	3.02%	0.315%
11	2.629	777	785	793	rVB	106940	112510	2.43%	0.253%
12	2.791	828	835	841	rBV	431863	450687	9.73%	1.015%
13	2.829	841	847	859	rVB	368014	415026	8.96%	0.935%
14	3.234	963	972	981	rVB2	101903	137733	2.97%	0.310%
15	3.664	1093	1105	1110	rBV	46422	72602	1.57%	0.164%
16	3.694	1110	1114	1127	rVB2	43376	61368	1.32%	0.138%
17	3.862	1154	1166	1178	rBV3	102022	173665	3.75%	0.391%
18	3.962	1184	1197	1211	rBV	571622	923144	19.93%	2.079%
19	4.059	1211	1227	1234	rVV2	164939	291971	6.30%	0.658%
20	4.101	1234	1240	1252	rVB	70413	118333	2.55%	0.267%
21	4.276	1281	1294	1309	rVB4	200690	389529	8.41%	0.877%
22	4.448	1335	1347	1360	rBV4	38252	78598	1.70%	0.177%
23	4.529	1360	1372	1377	rBV7	33332	65230	1.41%	0.147%
24	4.600	1386	1394	1403	rBV5	37203	72872	1.57%	0.164%
25	4.648	1403	1409	1423	rVB3	27611	51410	1.11%	0.116%
26	4.988	1498	1514	1527	rBV3	106918	223015	4.81%	0.502%
27	5.678	1703	1727	1741	rBV5	105024	283698	6.12%	0.639%
28	5.762	1741	1753	1781	rVB2	468862	1203007	25.97%	2.709%
29	6.940	2102	2117	2135	rVB2	170021	346999	7.49%	0.782%
30	7.380	2242	2253	2263	rBV4	37248	71468	1.54%	0.161%
31	7.623	2309	2328	2339	rBV9	67933	196349	4.24%	0.442%
32	7.697	2339	2351	2363	rVB6	55829	128625	2.78%	0.290%
33	8.141	2475	2488	2505	rVB6	42865	79432	1.71%	0.179%
34	8.309	2521	2540	2557	rVB6	112011	269748	5.82%	0.608%
35	8.885	2702	2718	2729	rBV	781432	1217152	26.27%	2.741%
36	8.985	2740	2749	2764	rVB6	126336	242099	5.23%	0.545%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042364.D
 Acq On : 17 Apr 2025 18:58
 Operator : SY/MD
 Sample : Q1668-04
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B1-1-3252025

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 3

Min Area: 3 % of largest Peak

Start Thrs: 0.001

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

37	9.102	2777	2785	2792	rBV4	40278	55304	1.19%	0.125%
38	9.151	2792	2800	2812	rVB3	84218	133718	2.89%	0.301%
39	9.358	2854	2864	2877	rBV	280648	463786	10.01%	1.045%
40	9.422	2877	2884	2892	rVB3	69732	95712	2.07%	0.216%

41	9.536	2901	2919	2936	rVV	1164405	2116857	45.69%	4.768%
42	9.636	2936	2950	2954	rVV6	56495	100418	2.17%	0.226%
43	9.659	2954	2957	2966	rVV6	65775	97391	2.10%	0.219%
44	9.736	2966	2981	2993	rVB5	267004	626021	13.51%	1.410%
45	9.863	3008	3020	3029	rBV2	311391	506480	10.93%	1.141%

46	9.969	3038	3053	3061	rBV	655737	1016424	21.94%	2.289%
47	10.002	3061	3063	3073	rVB6	40417	49397	1.07%	0.111%
48	10.083	3078	3088	3090	rBV5	91090	117524	2.54%	0.265%
49	10.105	3090	3095	3102	rVV2	157502	195241	4.21%	0.440%
50	10.151	3102	3109	3116	rVB5	60311	84868	1.83%	0.191%

51	10.219	3123	3130	3140	rVB4	45767	82068	1.77%	0.185%
52	10.358	3157	3173	3175	rBV	490847	590277	12.74%	1.329%
53	10.380	3175	3180	3189	rVV2	963010	1211002	26.14%	2.727%
54	10.435	3189	3197	3205	rVB4	124000	168154	3.63%	0.379%
55	10.484	3205	3212	3223	rVB2	46059	61037	1.32%	0.137%

56	10.546	3223	3231	3237	rBV2	59415	76998	1.66%	0.173%
57	10.620	3247	3254	3257	rBV5	39108	50070	1.08%	0.113%
58	10.668	3264	3269	3276	rVB5	66224	78523	1.69%	0.177%
59	10.775	3290	3302	3306	rBV4	127688	199251	4.30%	0.449%
60	10.801	3306	3310	3316	rVB4	72740	85572	1.85%	0.193%

61	10.859	3322	3328	3334	rVB6	106690	130595	2.82%	0.294%
62	10.905	3334	3342	3354	rVB2	160051	200667	4.33%	0.452%
63	10.992	3354	3369	3383	rBV	296314	516710	11.15%	1.164%
64	11.063	3383	3391	3395	rBV5	32012	49171	1.06%	0.111%
65	11.099	3395	3402	3408	rBV	1169118	1337061	28.86%	3.011%

66	11.128	3408	3411	3423	rVB	471907	523138	11.29%	1.178%
67	11.206	3423	3435	3443	rBV2	686425	846901	18.28%	1.907%
68	11.261	3443	3452	3455	rBV2	151827	172159	3.72%	0.388%
69	11.283	3455	3459	3465	rVV	234651	241062	5.20%	0.543%
70	11.319	3465	3470	3473	rVV2	259775	261073	5.63%	0.588%

71	11.342	3473	3477	3483	rVV2	349729	367602	7.93%	0.828%
72	11.406	3491	3497	3503	rBV	307987	334467	7.22%	0.753%
73	11.539	3530	3538	3548	rBV	1872101	2110344	45.55%	4.753%
74	11.594	3548	3555	3568	rVV6	132128	228622	4.93%	0.515%
75	11.652	3568	3573	3578	rVB3	43425	46638	1.01%	0.105%

76	11.730	3586	3597	3599	rBV5	93777	128576	2.78%	0.290%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042364.D
 Acq On : 17 Apr 2025 18:58
 Operator : SY/MD
 Sample : Q1668-04
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B1-1-3252025

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 3

Min Area: 3 % of largest Peak

Start Thrs: 0.001

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

77	11.756	3599	3605	3619	rVB4	633132	920681	19.87%	2.074%
78	11.850	3623	3634	3635	rBV5	37483	47215	1.02%	0.106%
79	11.885	3638	3645	3652	rVB	537515	586531	12.66%	1.321%
80	11.947	3660	3664	3671	rVB5	67259	81107	1.75%	0.183%
81	12.021	3676	3687	3692	rBV	333753	435569	9.40%	0.981%
82	12.044	3692	3694	3705	rVB7	139527	130568	2.82%	0.294%
83	12.102	3705	3712	3719	rBV3	90572	108796	2.35%	0.245%
84	12.138	3719	3723	3728	rBV2	79624	73253	1.58%	0.165%
85	12.174	3728	3734	3738	rBV3	117841	130693	2.82%	0.294%
86	12.199	3738	3742	3746	rVV	143236	141085	3.05%	0.318%
87	12.229	3746	3751	3759	rVB	467234	476714	10.29%	1.074%
88	12.274	3759	3765	3768	rBV	179042	194053	4.19%	0.437%
89	12.300	3768	3773	3779	rVB2	380804	400390	8.64%	0.902%
90	12.410	3801	3807	3813	rVB2	298175	316513	6.83%	0.713%
91	12.445	3813	3818	3823	rVB2	183142	174893	3.77%	0.394%
92	12.481	3823	3829	3833	rBV2	197231	196802	4.25%	0.443%
93	12.510	3833	3838	3841	rVV	313592	347242	7.49%	0.782%
94	12.526	3841	3843	3847	rVV	252288	241485	5.21%	0.544%
95	12.549	3847	3850	3856	rVB2	301391	277853	6.00%	0.626%
96	12.591	3856	3863	3875	rVB2	466121	676215	14.60%	1.523%
97	12.659	3875	3884	3893	rBV6	60639	102007	2.20%	0.230%
98	12.708	3893	3899	3904	rVB4	46781	47360	1.02%	0.107%
99	12.779	3916	3921	3923	rBV4	68935	69048	1.49%	0.156%
100	12.798	3923	3927	3932	rVV3	110336	139085	3.00%	0.313%
101	12.831	3932	3937	3943	rVV	587974	573659	12.38%	1.292%
102	12.866	3943	3948	3957	rVB9	87146	110674	2.39%	0.249%
103	12.921	3957	3965	3970	rBV	242531	271089	5.85%	0.611%
104	12.957	3970	3976	3984	rVB	326239	326847	7.05%	0.736%
105	13.005	3984	3991	4003	rVB8	182555	280271	6.05%	0.631%
106	13.070	4003	4011	4017	rVB5	59101	70192	1.52%	0.158%
107	13.109	4017	4023	4025	rBV2	121761	136125	2.94%	0.307%
108	13.132	4025	4030	4037	rVV2	307754	349809	7.55%	0.788%
109	13.170	4037	4042	4047	rVV3	215301	249142	5.38%	0.561%
110	13.193	4047	4049	4054	rVB3	107681	79356	1.71%	0.179%
111	13.232	4054	4061	4067	rBV2	367868	470558	10.16%	1.060%
112	13.261	4067	4070	4075	rVB	150124	137242	2.96%	0.309%
113	13.300	4075	4082	4087	rBV6	69995	89398	1.93%	0.201%
114	13.335	4087	4093	4105	rVV4	385543	542668	11.71%	1.222%
115	13.391	4105	4110	4115	rVB3	186237	196017	4.23%	0.441%
116	13.429	4115	4122	4126	rBV4	146994	158744	3.43%	0.358%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042364.D
 Acq On : 17 Apr 2025 18:58
 Operator : SY/MD
 Sample : Q1668-04
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B1-1-3252025

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 3

Min Area: 3 % of largest Peak

Start Thrs: 0.001

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

117	13.455	4126	4130	4135	rVV	80751	69670	1.50%	0.157%
118	13.488	4135	4140	4145	rVB2	94425	81797	1.77%	0.184%
119	13.520	4145	4150	4153	rBV3	68492	72156	1.56%	0.163%
120	13.539	4153	4156	4162	rVB3	95753	92681	2.00%	0.209%
121	13.578	4162	4168	4172	rBV3	173093	195963	4.23%	0.441%
122	13.598	4172	4174	4179	rVB3	119430	81756	1.76%	0.184%
123	13.643	4179	4188	4189	rBV6	60364	72165	1.56%	0.163%
124	13.666	4189	4195	4205	rVB6	246716	408512	8.82%	0.920%
125	13.730	4205	4215	4220	rBV	460485	449619	9.70%	1.013%
126	13.756	4220	4223	4232	rVB4	68513	86243	1.86%	0.194%
127	13.834	4232	4247	4252	rBV5	175394	252466	5.45%	0.569%
128	13.863	4252	4256	4260	rVV2	91811	92889	2.00%	0.209%
129	13.905	4260	4269	4274	rVB5	109145	151323	3.27%	0.341%
130	13.983	4289	4293	4300	rVB5	86029	95999	2.07%	0.216%
131	14.035	4300	4309	4311	rVV8	66732	78173	1.69%	0.176%
132	14.051	4311	4314	4322	rVV8	53143	77862	1.68%	0.175%
133	14.099	4322	4329	4330	rVV5	106160	93376	2.02%	0.210%
134	14.112	4330	4333	4345	rVB2	124824	173301	3.74%	0.390%
135	14.239	4362	4372	4386	rVB2	268438	419237	9.05%	0.944%
136	14.306	4386	4393	4399	rBV8	61120	66847	1.44%	0.151%
137	14.345	4399	4405	4411	rBV4	98409	120313	2.60%	0.271%
138	14.452	4430	4438	4446	rBV4	140829	193470	4.18%	0.436%
139	14.491	4446	4450	4455	rVV7	46602	50798	1.10%	0.114%
140	14.527	4455	4461	4473	rVB	206040	238966	5.16%	0.538%
141	14.591	4473	4481	4487	rBV4	40320	55723	1.20%	0.126%
142	14.669	4498	4505	4517	rBV7	132742	229855	4.96%	0.518%
143	14.792	4540	4543	4552	rVB8	38282	48662	1.05%	0.110%
144	15.106	4635	4640	4649	rVB10	42110	61795	1.33%	0.139%
145	15.245	4673	4683	4691	rVB7	78664	109219	2.36%	0.246%
146	15.585	4779	4788	4802	rVB7	49036	73265	1.58%	0.165%

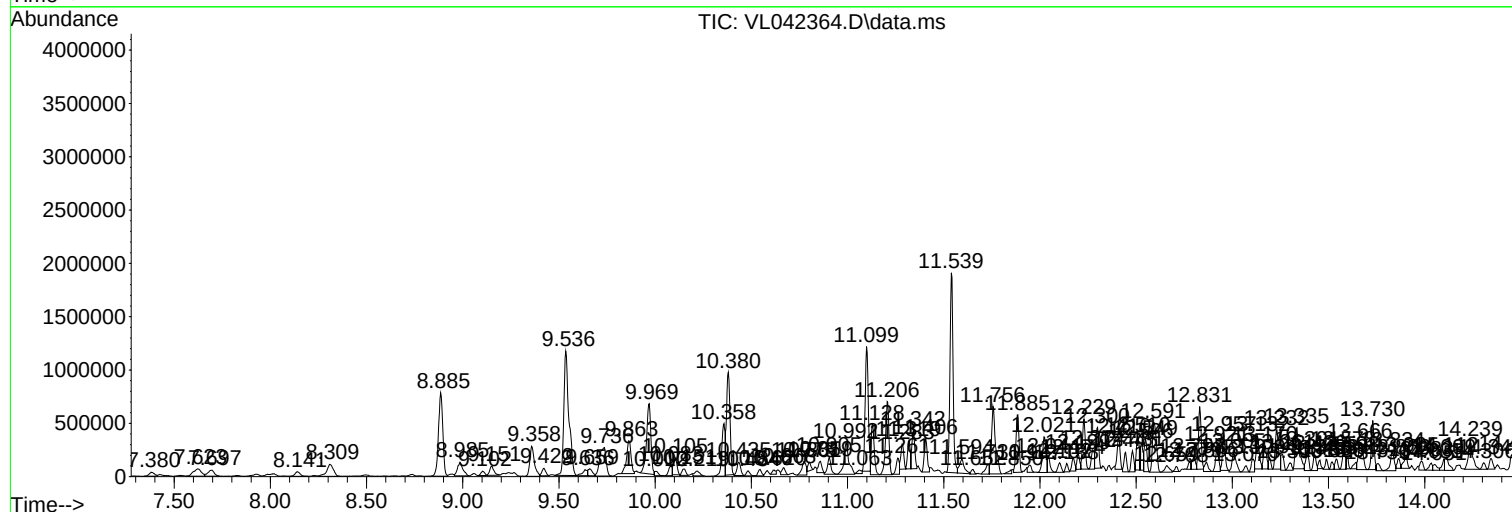
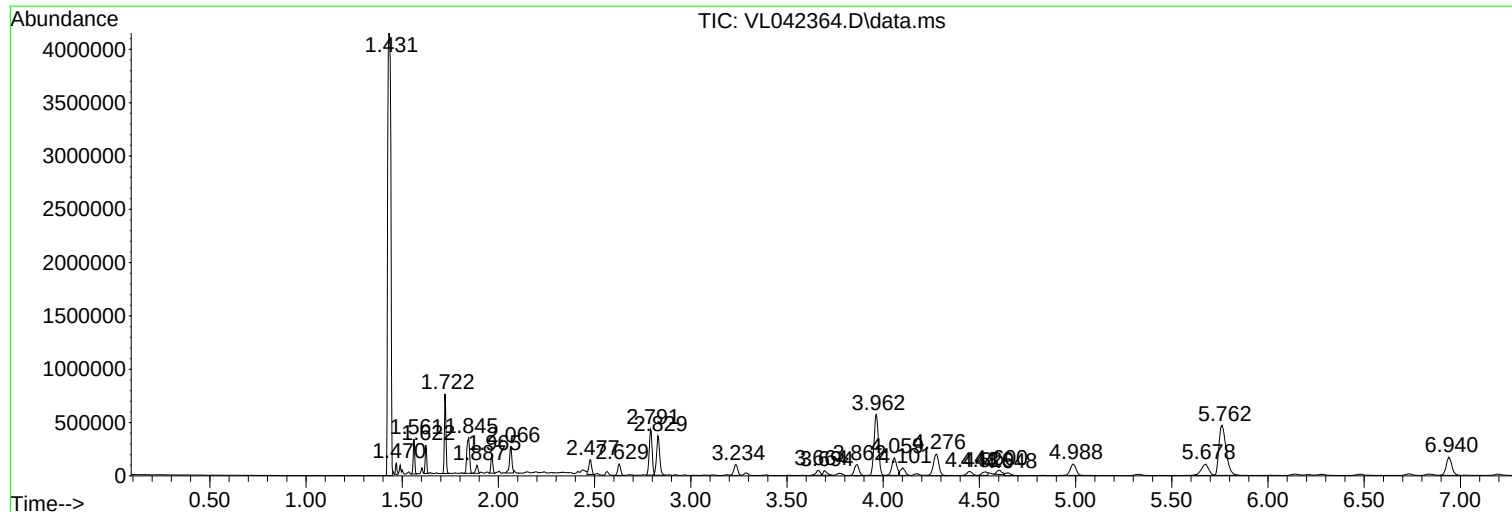
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042364.D
Acq On : 17 Apr 2025 18:58
Operator : SY/MD
Sample : Q1668-04
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042364.D
Acq On : 17 Apr 2025 18:58
Operator : SY/MD
Sample : Q1668-04
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

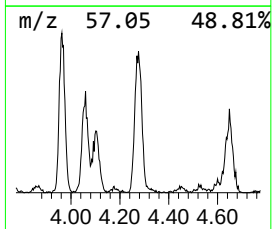
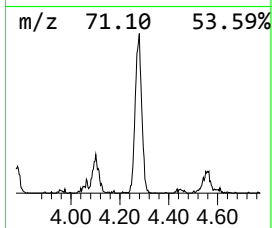
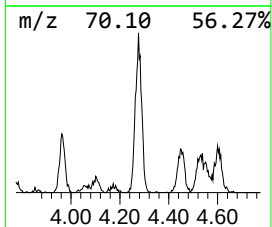
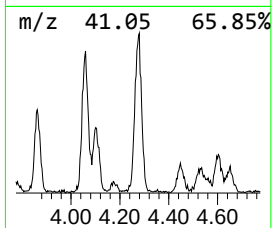
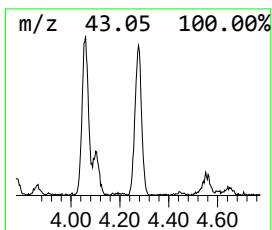
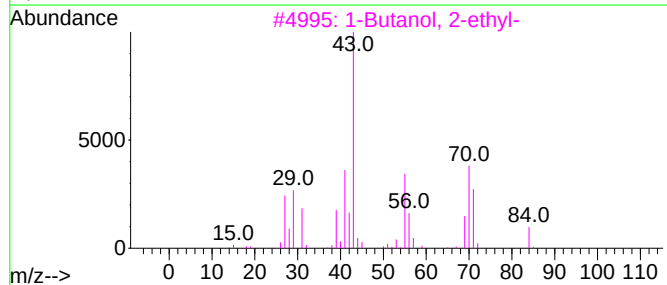
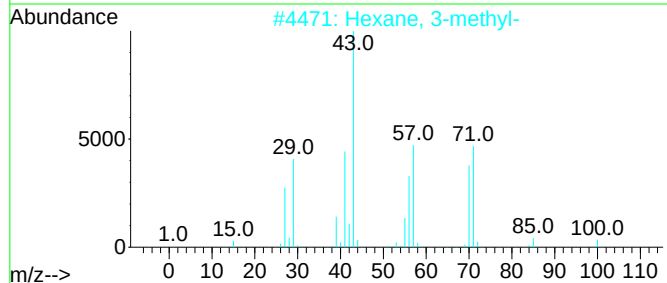
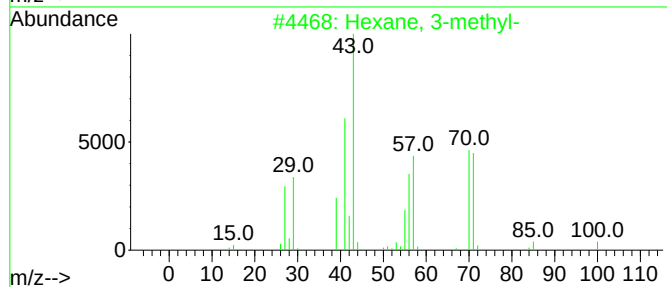
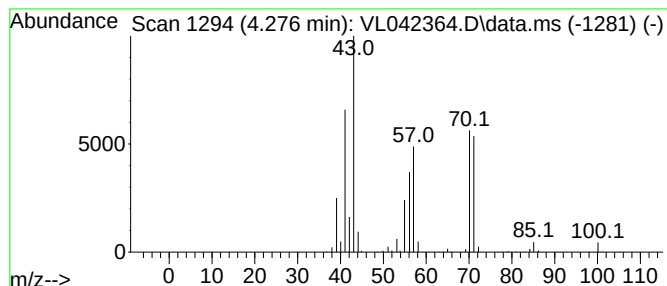
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 1 Hexane, 3-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.276	4.22 ppbv	389529	1,4-Difluorobenzene	3.962

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Hexane, 3-methyl-	100	C7H16	000589-34-4	91
2			Hexane, 3-methyl-	100	C7H16	000589-34-4	90
3			1-Butanol, 2-ethyl-	102	C6H14O	000097-95-0	78
4			Heptane, 4-methyl-	114	C8H18	000589-53-7	64
5			Hexane, 3-methyl-	100	C7H16	000589-34-4	64



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042364.D
Acq On : 17 Apr 2025 18:58
Operator : SY/MD
Sample : Q1668-04
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

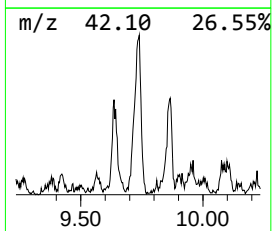
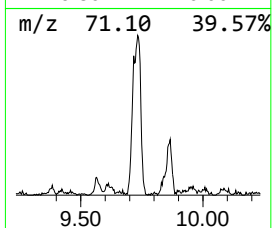
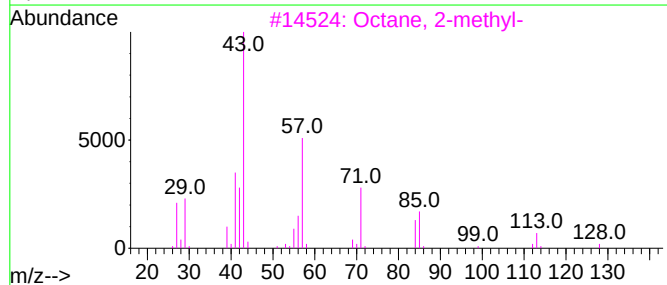
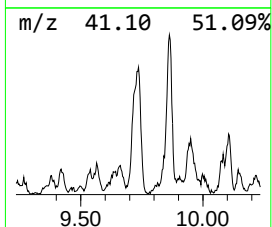
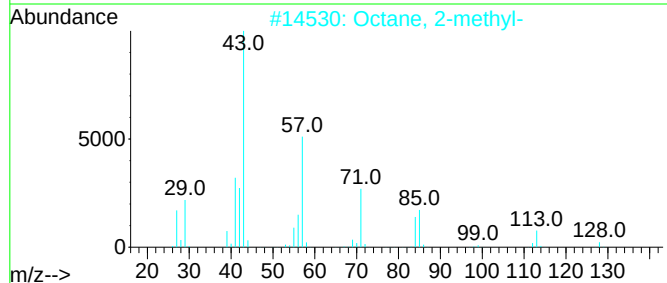
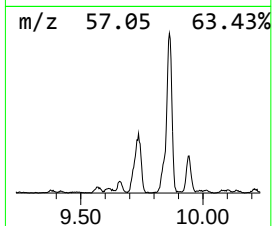
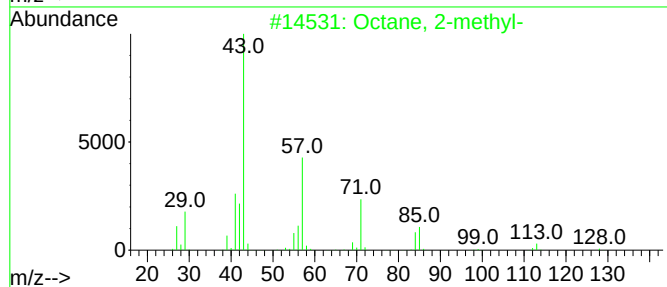
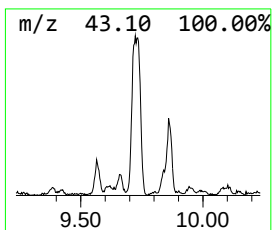
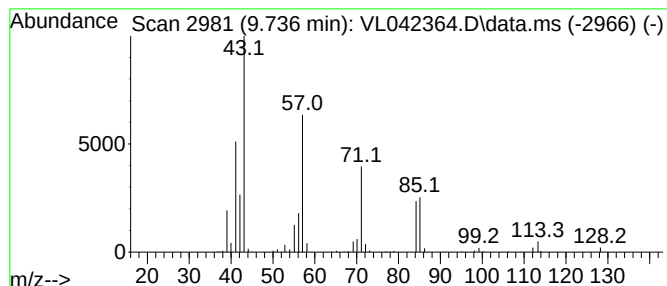
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 2 Octane, 2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.736	5.14 ppbv	626021	Chlorobenzene-d5	8.885

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Octane, 2-methyl-	128	C9H20	003221-61-2	91
2			Octane, 2-methyl-	128	C9H20	003221-61-2	90
3			Octane, 2-methyl-	128	C9H20	003221-61-2	72
4			Octane, 4-methyl-	128	C9H20	002216-34-4	72
5			Undecane, 5-methyl-	170	C12H26	001632-70-8	72



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042364.D
Acq On : 17 Apr 2025 18:58
Operator : SY/MD
Sample : Q1668-04
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

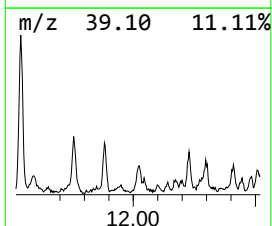
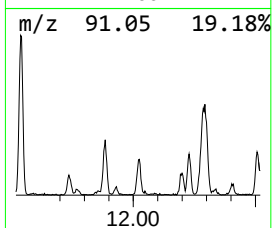
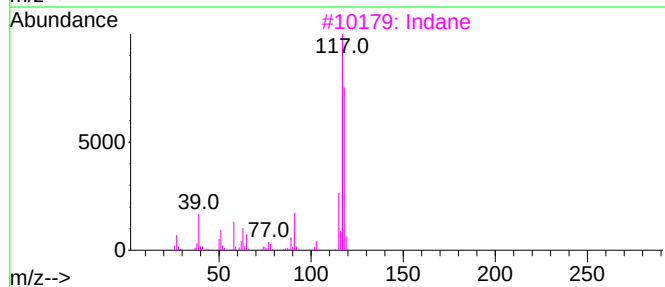
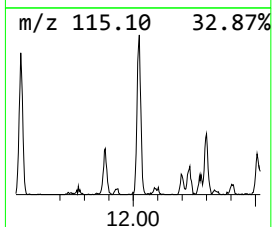
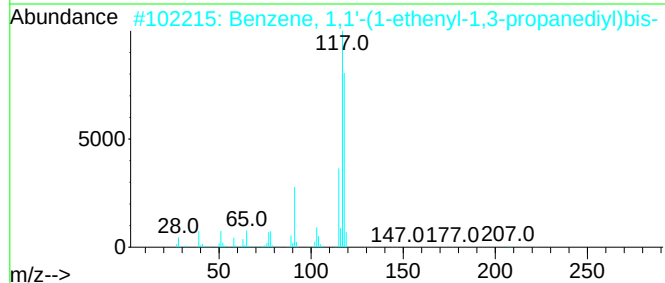
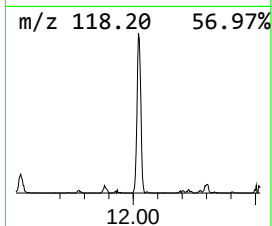
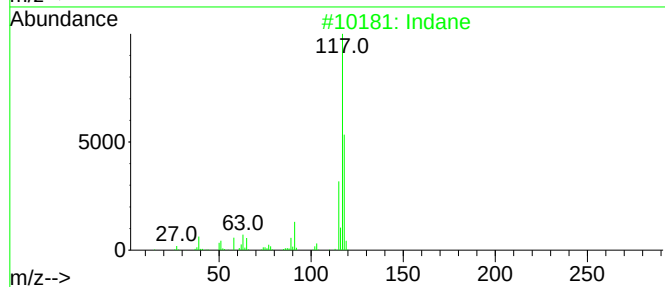
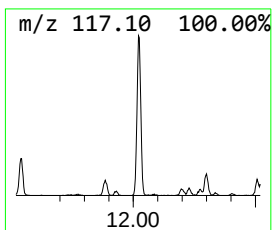
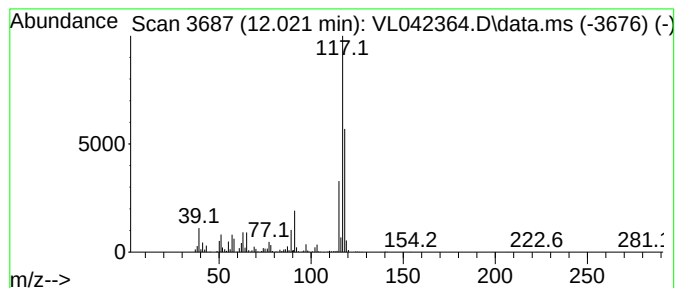
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 3 Indane Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.021	3.58 ppbv	435569	Chlorobenzene-d5	8.885

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Indane	118	C9H10	000496-11-7	91
2			Benzene, 1,1'-(1-ethenyl-1,3-pro...	222	C17H18	061141-97-7	91
3			Indane	118	C9H10	000496-11-7	89
4			Benzene, cyclopropyl-	118	C9H10	000873-49-4	81
5			Benzene, 1-ethenyl-2-methyl-	118	C9H10	000611-15-4	76



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042364.D
Acq On : 17 Apr 2025 18:58
Operator : SY/MD
Sample : Q1668-04
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

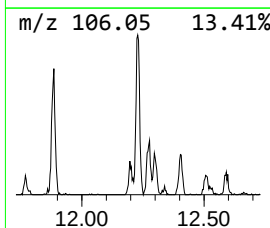
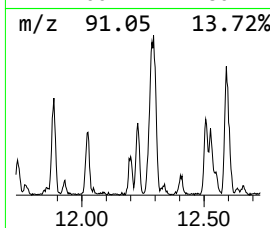
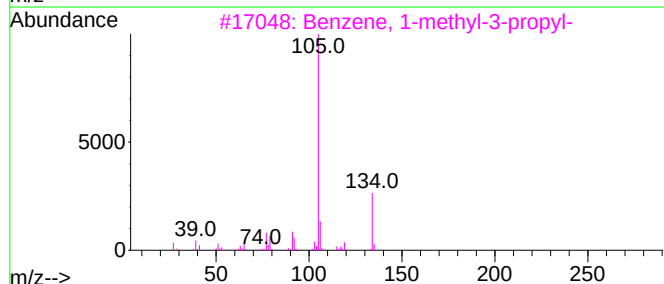
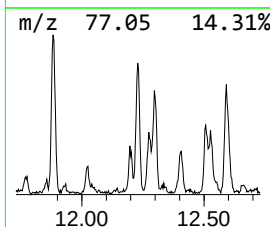
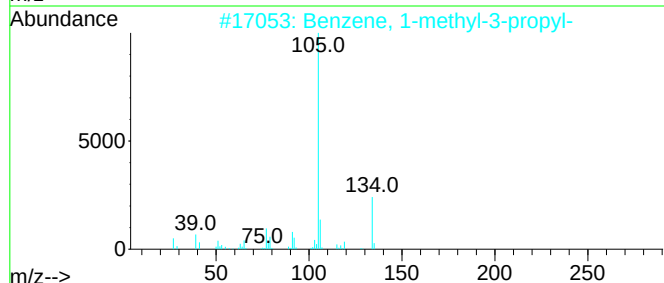
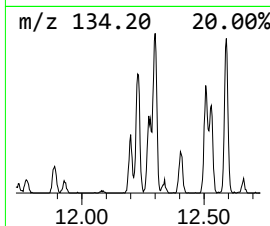
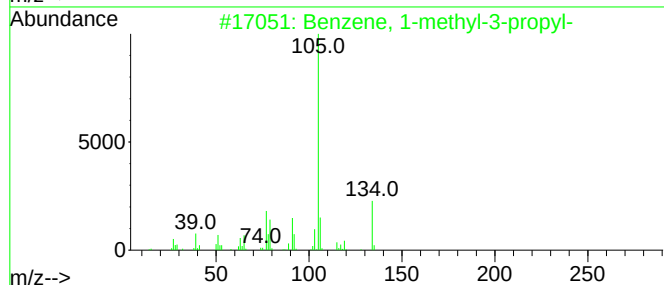
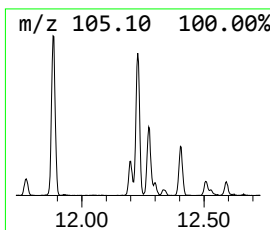
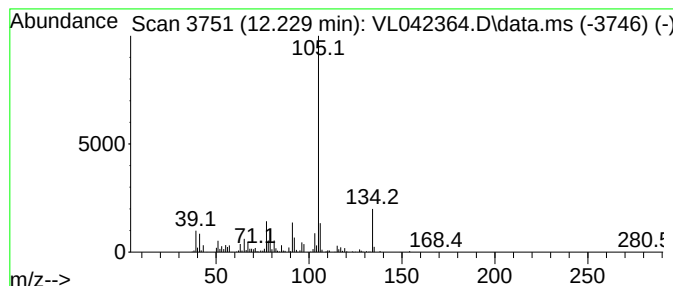
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Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 4 Benzene, 1-methyl-3-propyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.229	3.92 ppbv	476714	Chlorobenzene-d5	8.885

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzene, 1-methyl-3-propyl-	134	C10H14	001074-43-7	93
2			Benzene, 1-methyl-3-propyl-	134	C10H14	001074-43-7	90
3			Benzene, 1-methyl-3-propyl-	134	C10H14	001074-43-7	90
4			Benzene, 1-methyl-4-propyl-	134	C10H14	001074-55-1	87
5			Benzene, (1-methylpropyl)-	134	C10H14	000135-98-8	87



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042364.D
Acq On : 17 Apr 2025 18:58
Operator : SY/MD
Sample : Q1668-04
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

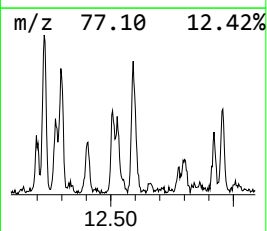
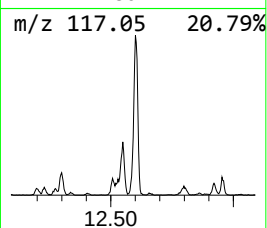
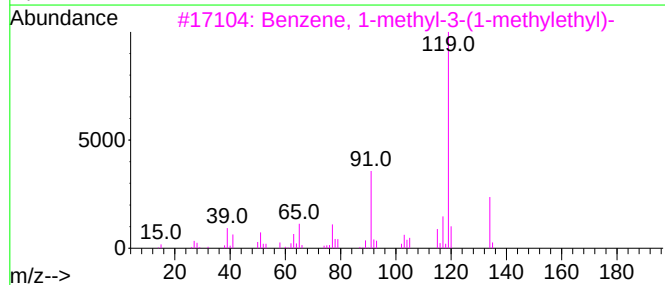
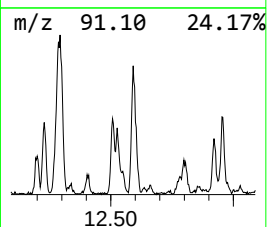
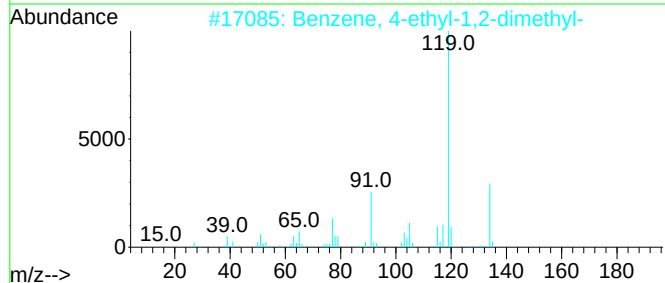
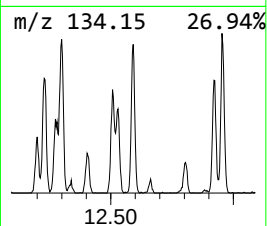
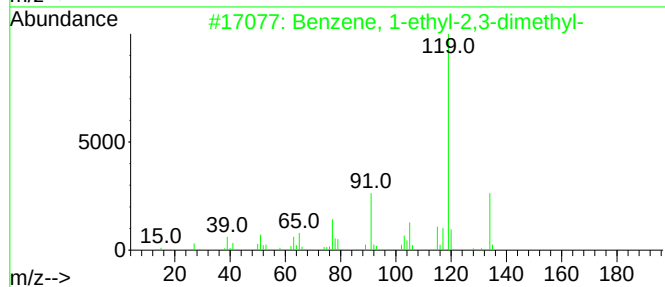
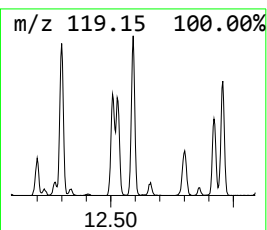
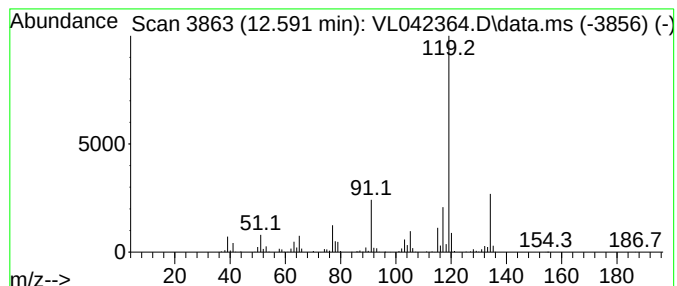
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Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 5 Benzene, 1-ethyl-2,3-dimethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.591	5.56 ppbv	676215	Chlorobenzene-d5	8.885

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	94
2			Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	94
3			Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	90
4			Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	87
5			Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	87



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042364.D
Acq On : 17 Apr 2025 18:58
Operator : SY/MD
Sample : Q1668-04
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

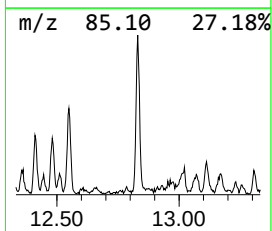
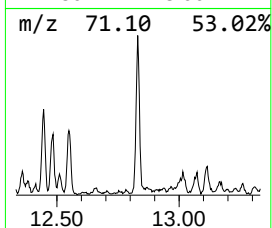
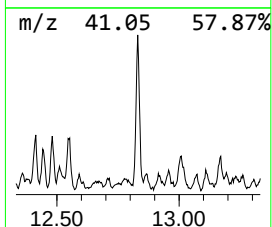
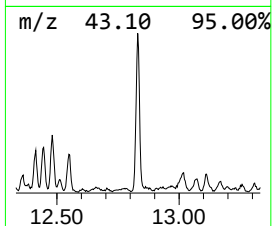
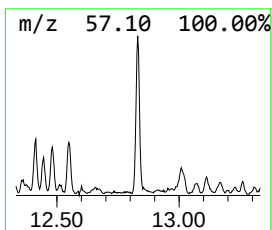
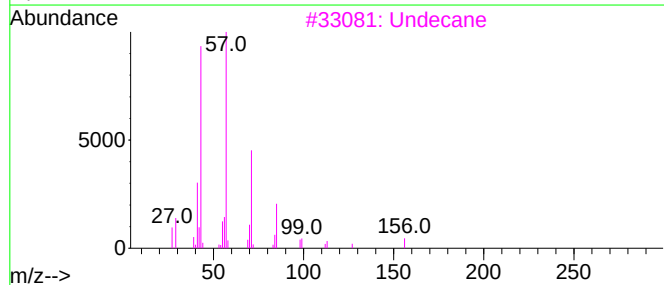
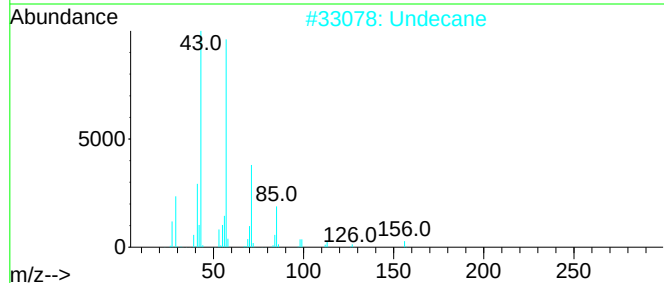
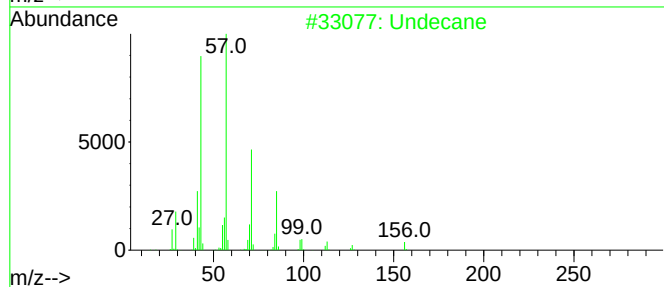
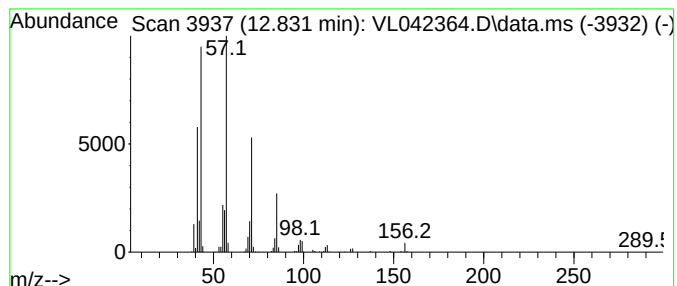
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Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 6 Undecane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.831	4.71 ppbv	573659	Chlorobenzene-d5	8.885

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane			156	C11H24	001120-21-4	90
2	Undecane			156	C11H24	001120-21-4	90
3	Undecane			156	C11H24	001120-21-4	87
4	Tridecane			184	C13H28	000629-50-5	86
5	Decane			142	C10H22	000124-18-5	72



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042364.D
Acq On : 17 Apr 2025 18:58
Operator : SY/MD
Sample : Q1668-04
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

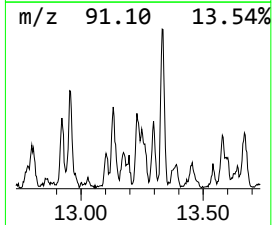
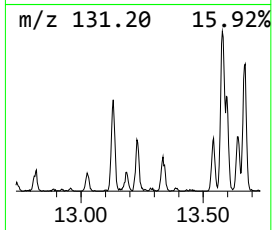
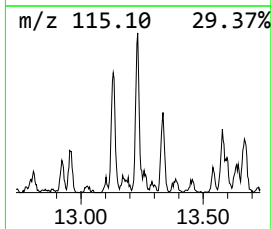
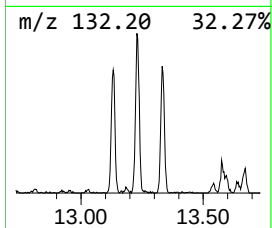
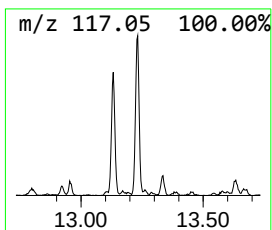
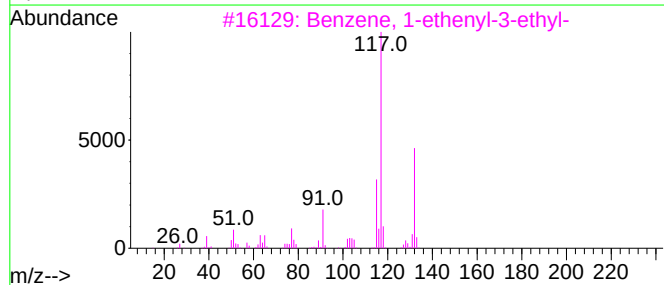
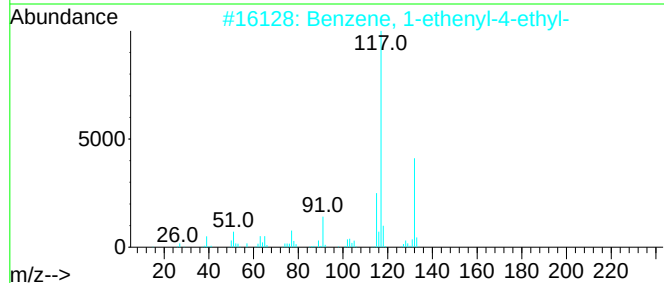
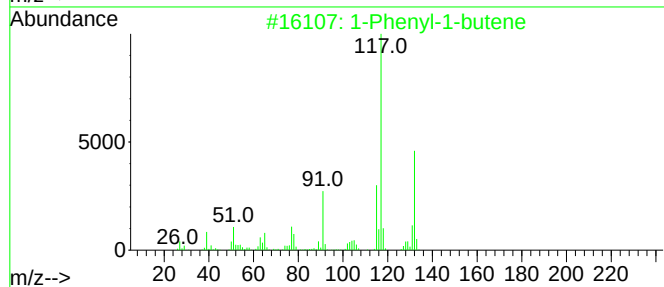
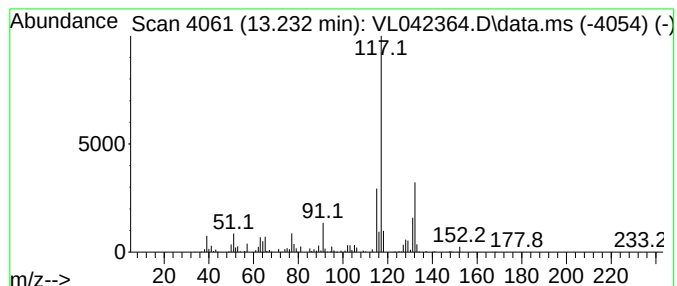
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Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 7 1-Phenyl-1-butene Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.232	3.87 ppbv	470558	Chlorobenzene-d5	8.885

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			1-Phenyl-1-butene	132	C10H12	000824-90-8	94
2			Benzene, 1-ethenyl-4-ethyl-	132	C10H12	003454-07-7	93
3			Benzene, 1-ethenyl-3-ethyl-	132	C10H12	007525-62-4	93
4			Benzene, (2-methyl-1-propenyl)-	132	C10H12	000768-49-0	91
5			Benzene, (1-methyl-1-propenyl)-,...	132	C10H12	000768-00-3	91



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042364.D
Acq On : 17 Apr 2025 18:58
Operator : SY/MD
Sample : Q1668-04
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

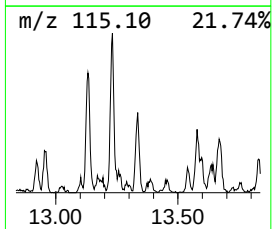
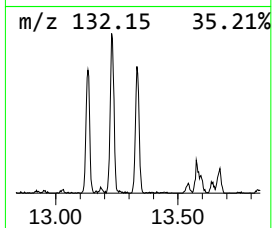
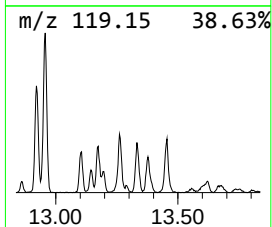
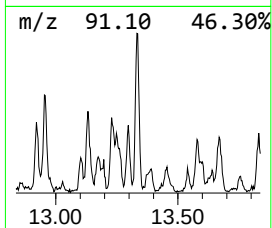
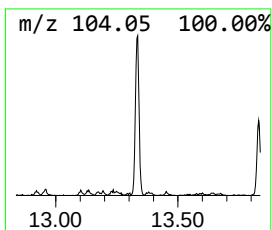
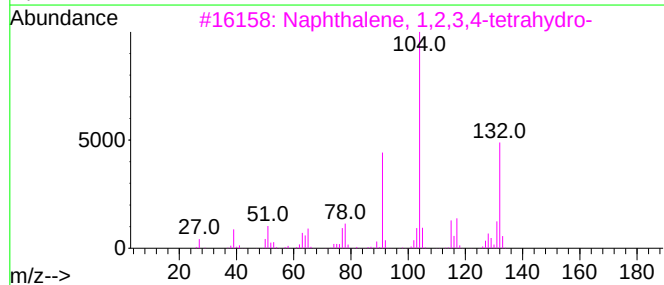
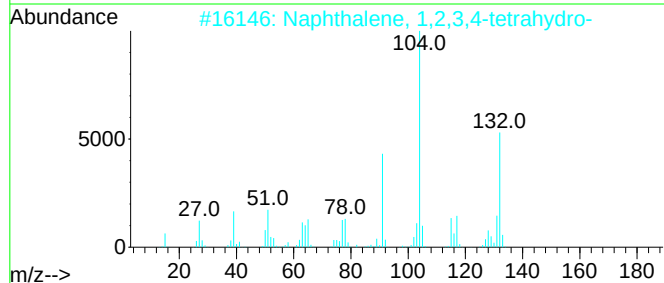
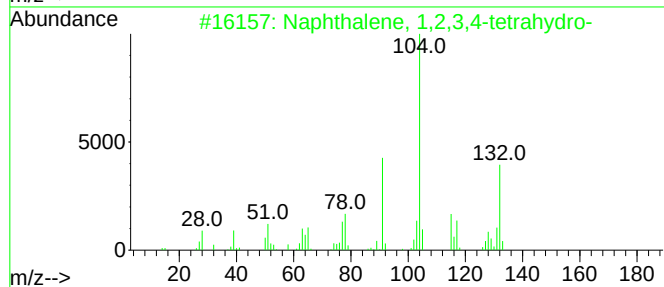
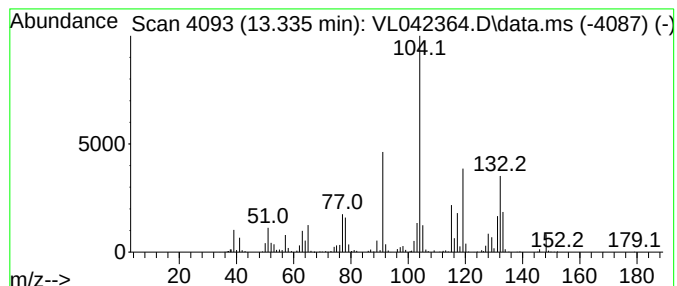
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 8 Naphthalene, 1,2,3,4-tetrahydro... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD		R.T.	
13.336	4.46 ppbv	542668	Chlorobenzene-d5		8.885	
Hit# of 5	Tentative ID		MW	MolForm	CAS#	Qual
1	Naphthalene, 1,2,3,4-tetrahydro-		132	C10H12	000119-64-2	95
2	Naphthalene, 1,2,3,4-tetrahydro-		132	C10H12	000119-64-2	70
3	Naphthalene, 1,2,3,4-tetrahydro-		132	C10H12	000119-64-2	70
4	Naphthalene, 1,2,3,4-tetrahydro-		132	C10H12	000119-64-2	70
5	Naphthalene, 1,2,3,4-tetrahydro-		132	C10H12	000119-64-2	70



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042364.D
Acq On : 17 Apr 2025 18:58
Operator : SY/MD
Sample : Q1668-04
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

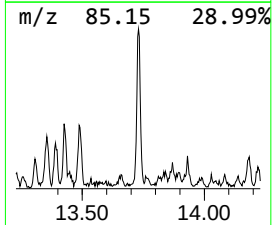
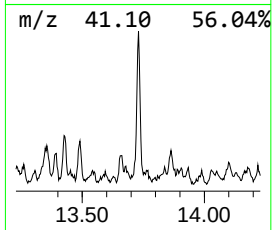
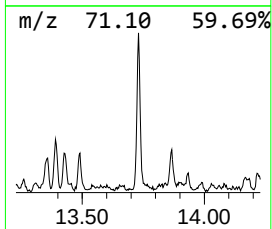
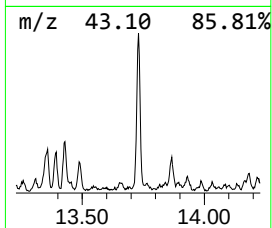
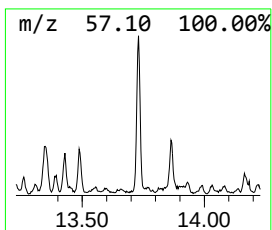
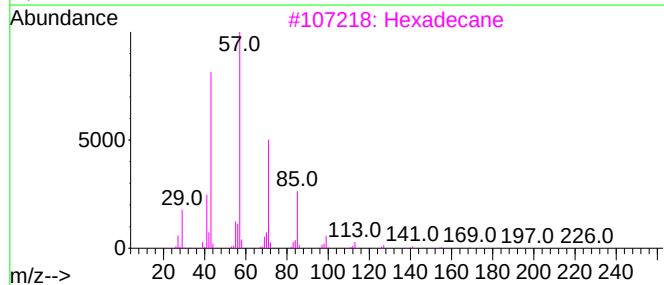
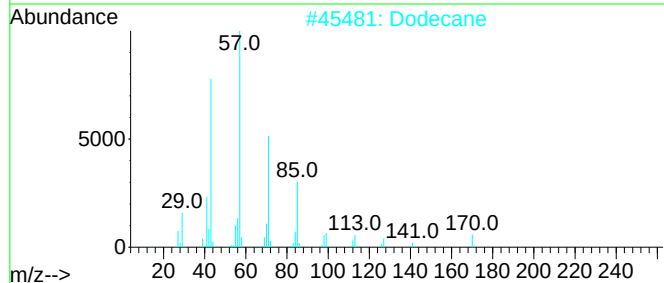
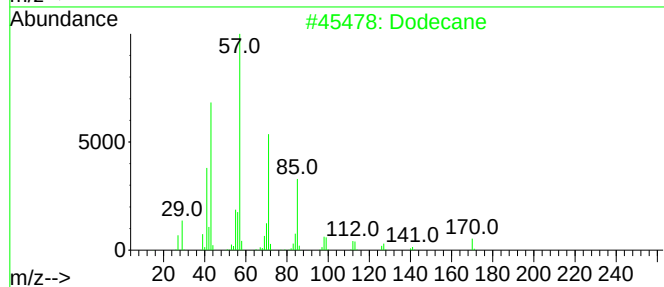
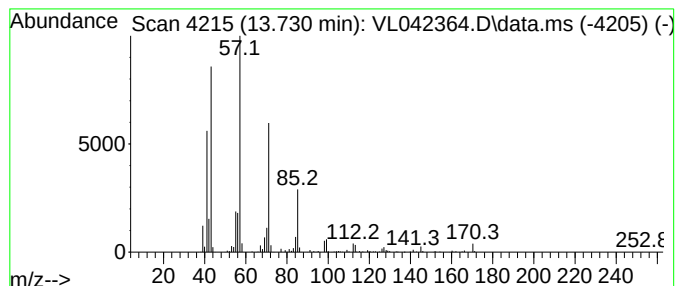
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Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 9 Dodecane Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.730	3.69 ppbv	449619	Chlorobenzene-d5	8.885

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Dodecane	170	C12H26	000112-40-3	95
2			Dodecane	170	C12H26	000112-40-3	91
3			Hexadecane	226	C16H34	000544-76-3	86
4			Tetradecane	198	C14H30	000629-59-4	86
5			Tridecane	184	C13H28	000629-50-5	80



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042364.D
Acq On : 17 Apr 2025 18:58
Operator : SY/MD
Sample : Q1668-04
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

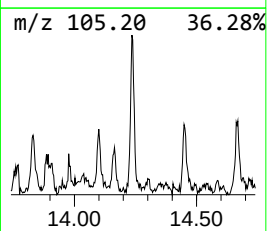
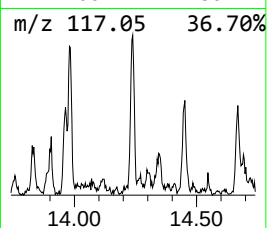
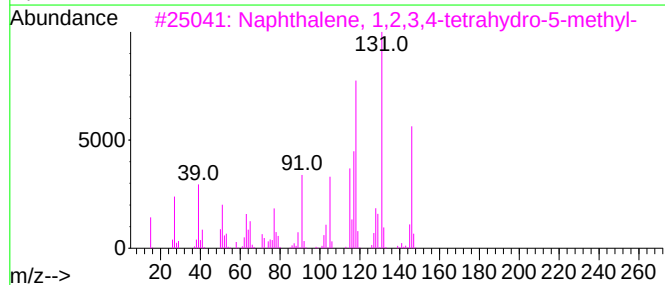
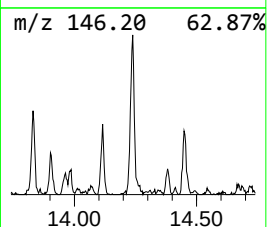
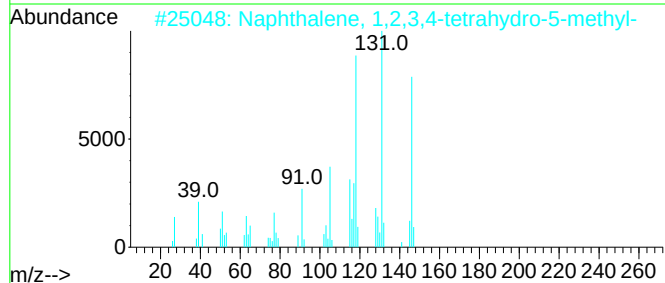
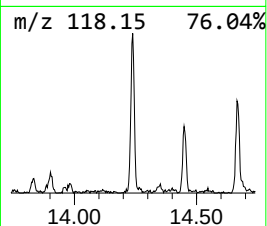
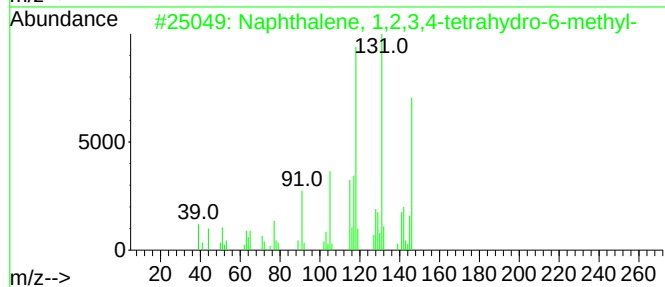
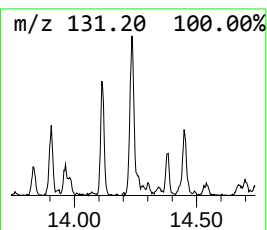
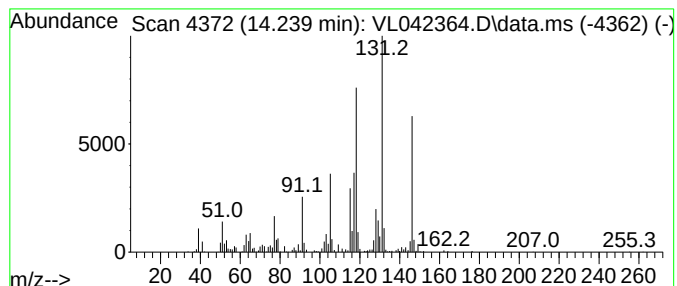
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 10 Naphthalene, 1,2,3,4-tetrahydro-... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD			R.T.
14.239	3.44 ppbv	419237	Chlorobenzene-d5			8.885
Hit# of 5	Tentative ID		MW	MolForm	CAS#	Qual
1	Naphthalene, 1,2,3,4-tetrahydro-...		146	C11H14	001680-51-9	95
2	Naphthalene, 1,2,3,4-tetrahydro-...		146	C11H14	002809-64-5	94
3	Naphthalene, 1,2,3,4-tetrahydro-...		146	C11H14	002809-64-5	94
4	Naphthalene, 1,2,3,4-tetrahydro-...		146	C11H14	002809-64-5	94
5	Naphthalene, 1,2,3,4-tetrahydro-...		146	C11H14	001680-51-9	93



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042364.D
Acq On : 17 Apr 2025 18:58
Operator : SY/MD
Sample : Q1668-04
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST0.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
Hexane, 3-methyl-	4.276	4.2	ppbv	389529	2	3.962	923144	10.0
Octane, 2-methyl-	9.736	5.1	ppbv	626021	3	8.885	1217150	10.0
Indane	12.021	3.6	ppbv	435569	3	8.885	1217150	10.0
Benzene, 1-meth...	12.229	3.9	ppbv	476714	3	8.885	1217150	10.0
Benzene, 1-ethy...	12.591	5.6	ppbv	676215	3	8.885	1217150	10.0
Undecane	12.831	4.7	ppbv	573659	3	8.885	1217150	10.0
1-Phenyl-1-butene	13.232	3.9	ppbv	470558	3	8.885	1217150	10.0
Naphthalene, 1,...	13.336	4.5	ppbv	542668	3	8.885	1217150	10.0
Dodecane	13.730	3.7	ppbv	449619	3	8.885	1217150	10.0
Naphthalene, 1,...	14.239	3.4	ppbv	419237	3	8.885	1217150	10.0



CALIBRATION SUMMARY

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\

Method File : VL041725AIR.M

Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

Last Update : Fri Apr 18 02:14:00 2025

Response Via : Initial Calibration

Calibration Files

0.03=VL042354.D 0.1 =VL042353.D 0.5 =VL042352.D 1 =VL042351.D 2 =VL042350.D 10 =VL042349.D 15 =VL042355.D

Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD

1) I Bromochloromethane	-----ISTD-----								
2) T Dichlorodifluo...			1.831	1.837	1.827	1.658	1.682	1.767	5.05
3) Chlorodifluoro...			1.876	1.657	1.698	1.573	1.608	1.682	7.01
4) Chloromethane			0.752	0.725	0.701	0.652	0.665	0.699	5.93
5) T Vinyl Chloride	1.002	0.911	0.731	0.709	0.689	0.638	0.647	0.761	18.39
6) T Bromomethane			0.397	0.330	0.300	0.304	0.303	0.327	12.56
7) Chloroethane			0.303	0.287	0.280	0.253	0.255	0.275	7.76
8) T Dichlorotetra...			1.556	1.550	1.581	1.432	1.465	1.517	4.25
9) T Propene			0.880	0.797	0.758	0.690	0.707	0.766	9.95
10) T Heptane			2.444	2.296	2.209	1.884	1.931	2.153	11.14
11) T Trichlorofluor...			1.684	1.806	1.746	1.567	1.597	1.680	5.95
12) T 1,1,2-Trichlor...			1.389	1.439	1.437	1.281	1.323	1.374	5.11
13) Ethanol			0.275	0.139	0.123	0.035	0.036	0.122	80.54
14) T Bromoethene			0.537	0.545	0.530	0.490	0.487	0.518	5.24
15) T Acetone			1.968	1.895	1.743	1.263	1.316	1.637	20.03
16) T 1,3-Butadiene			1.015	0.836	0.735	0.651	0.678	0.783	18.90
17) tert-Butyl alc...			2.263	2.132	2.103	1.804	1.841	2.029	9.76
18) T 1,1-Dichloroet...			0.735	0.635	0.637	0.583	0.618	0.642	8.79
19) T Isopropyl Alcohol			1.050	0.980	0.897	0.821	0.798	0.909	11.66
20) T Methylene Chlo...			0.875	0.728	0.582	0.498	0.523	0.641	24.71
21) T Allyl Chloride			1.276	1.213	1.110	0.973	1.080	1.130	10.44
22) T trans-1,2-Dich...			0.814	0.759	0.736	0.664	0.681	0.731	8.32
23) T Vinyl Acetate			0.656	0.744	0.749	0.555	0.610	0.663	12.72
24) T 1,1-Dichloroet...			1.452	1.469	1.383	1.284	1.352	1.388	5.43
25) T Ethyl Acetate			4.428	4.147	4.118	3.677	3.812	4.036	7.34
26) T Hexane			1.899	1.719	1.625	1.424	1.499	1.633	11.45
27) T Carbon Disulfide			1.903	1.670	1.785	1.668	1.718	1.749	5.63
28) T Methyl tert-Bu...			1.134	1.141	1.132	0.940	1.004	1.070	8.64
29) T Chloroform			2.458	2.333	2.392	2.145	2.215	2.309	5.54
30) T Cyclohexane			1.422	1.333	1.347	1.252	1.249	1.320	5.50
31) T cis-1,2-Dichlo...			1.588	1.603	1.593	1.459	1.522	1.553	3.95
32) T 1,1,1-Trichlor...	3.110	2.840	2.557	2.549	2.493	2.274	2.369	2.599	11.03

33) I 1,4-Difluorobenzene	-----ISTD-----								
34) T 2-Butanone			0.886	0.826	0.818	0.687	0.737	0.791	9.94
35) T Carbon Tetrach...	1.319	0.914	0.832	0.830	0.847	0.770	0.823	0.905	20.70
36) T Benzene			1.146	1.075	1.121	1.002	1.048	1.079	5.31
37) T 1,2-Dichloroet...			0.691	0.647	0.666	0.592	0.641	0.647	5.63
38) T Trichloroethene	0.643	0.505	0.443	0.448	0.447	0.395	0.419	0.471	17.59
39) T 1,2-Dichloropr...			0.441	0.413	0.405	0.370	0.381	0.402	6.97

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\										
Method File : VL041725AIR.M										
40) T	1,4-Dioxane			0.263	0.243	0.232	0.182	0.185	0.221	16.27
41) T	Tetrahydrofuran			0.518	0.480	0.468	0.409	0.432	0.461	9.20
42) T	Bromodichlorom...			0.943	0.909	0.912	0.852	0.889	0.901	3.71
43) T	Methyl Methacr...			0.545	0.520	0.495	0.430	0.441	0.486	10.21
44) T	2,2,4-Trimethy...			1.935	1.916	1.962	1.708	1.794	1.863	5.79
45) T	t-1,3-Dichloro...			0.514	0.510	0.509	0.459	0.491	0.497	4.60
46) T	cis-1,3-Dichlo...			0.613	0.617	0.637	0.570	0.603	0.608	4.05
47) T	1,1,2-Trichlor...			0.423	0.429	0.420	0.376	0.399	0.410	5.32
48) T	Dibromochlorom...			0.743	0.721	0.746	0.679	0.729	0.723	3.70
49) T	Bromoform			0.622	0.623	0.675	0.616	0.627	0.633	3.82
50) T	4-Methyl-2-Pen...			1.541	1.382	1.435	1.082	1.132	1.314	15.12
51) T	2-Hexanone			1.341	1.311	1.411	0.893	0.938	1.179	20.69
52) T	Tetrachloroethene	0.543	0.452	0.420	0.393	0.391	0.357	0.363	0.417	15.46
53) T	Toluene			1.371	1.295	1.370	1.193	1.244	1.294	6.03
54) T	1,2-Dibromoethane		0.621	0.582	0.605	0.606	0.539	0.562	0.586	5.27
-----ISTD-----										
55) I	Chlorobenzene-d5									
56) T	1,1,1,2-Tetrac...			0.621	0.640	0.635	0.550	0.581	0.605	6.37
57) T	Chlorobenzene			1.129	1.067	1.068	0.956	0.981	1.040	6.79
58) T	Ethyl Benzene			2.029	2.088	2.068	1.832	1.890	1.981	5.73
59) T	m/p-Xylene			1.685	1.682	1.658	1.456	1.500	1.596	6.86
60) T	o-Xylene			1.740	1.697	1.668	1.442	1.490	1.607	8.25
61) T	Styrene			0.792	0.776	0.808	0.726	0.734	0.767	4.68
62) T	Isopropylbenzene			2.517	2.470	2.439	2.170	2.202	2.360	6.83
63) T	1,1,2,2-Tetrac...	1.407	1.176	0.990	0.985	0.968	0.873	0.892	1.042	18.12
64) T	n-propylbenzene			0.645	0.605	0.610	0.542	0.564	0.593	6.81
65) T	tert-Butylbenzene			2.319	2.358	2.315	1.907	1.945	2.169	10.27
66) T	Benzyl Chloride			0.241	0.239	0.258	0.246	0.208	0.238	7.84
67) T	sec-Butylbenzene			3.242	3.219	3.253	2.662	2.709	3.017	10.05
68) S	1-Bromo-4-Fluo...	0.819	0.814	0.824	0.818	0.822	0.831	0.825	0.822	0.69
69) T	p-Isopropyltol...			2.834	2.818	2.811	2.304	2.338	2.621	10.46
70) T	n-Butylbenzene			2.985	2.926	2.953	2.370	2.414	2.730	11.33
71) T	2-Chlorotoluene			1.972	1.924	1.920	1.695	1.744	1.851	6.65
72) T	4-Ethyltoluene			2.055	2.118	2.054	1.765	1.833	1.965	7.92
73) T	1,3,5-Trimethy...			1.894	1.851	1.841	1.517	1.570	1.735	10.19
74) T	1,2,4-Trimethy...			2.348	2.245	2.168	1.671	1.698	2.026	15.71
75) T	1,3-Dichlorobe...			1.119	1.121	1.119	0.948	0.960	1.053	8.64
76) T	1,4-Dichlorobe...			1.138	1.115	1.122	0.944	0.974	1.059	8.69
77) T	1,2-Dichlorobe...			1.085	1.093	1.114	0.904	0.924	1.024	9.88
78) T	Hexachloro-1,3...			1.163	1.136	1.135	0.863	0.874	1.034	14.66
79) T	Naphthalene		2.433	2.395	2.756	2.909	2.004	2.040	2.423	15.11
80) T	Naphthalene,2-...			1.311	1.534	1.777	1.115	1.168	1.381	19.88
81) T	1,2,4-Trichlor...			1.026	1.117	1.224	0.905	0.929	1.040	12.75

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042349.D
 Acq On : 17 Apr 2025 09:44
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 01:25:08 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025

QLast Update : Fri Apr 18 01:24:29 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	125455	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	366544	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	338126	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 281013 10.114 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.100%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	207962	9.382	ppbv	100
3) Chlorodifluoromethane	1.476	51	197334	9.350	ppbv	100
4) Chloromethane	1.531	50	81843	9.330	ppbv	100
5) Vinyl Chloride	1.580	62	80068	8.385	ppbv	100
6) Bromomethane	1.667	94	38128	9.219	ppbv	100
7) Chloroethane	1.703	64	31705	9.182	ppbv	100
8) Dichlorotetrafluoroethane	1.554	85	179696	9.442	ppbv	100
9) Propene	1.483	41	86530	9.002	ppbv	100
10) Heptane	4.978	43	236341	9.138	ppbv	100
11) Trichlorofluoromethane	1.877	101	196596	9.327	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.136	101	160682	9.323	ppbv	100
13) Ethanol	1.719	45	4439	5.651	ppbv	100
14) Bromoethene	1.780	108	61493	9.466	ppbv	100
15) Acetone	1.835	43	158490	7.717	ppbv	100
16) 1,3-Butadiene	1.609	39	81688	8.470	ppbv	100
17) tert-Butyl alcohol	2.039	59	226280	8.891	ppbv	100
18) 1,1-Dichloroethene	2.033	96	73186	8.833	ppbv	100
19) Isopropyl Alcohol	1.884	45	103029	9.031	ppbv	100
20) Methylene Chloride	2.062	84	62414	7.760	ppbv	100
21) Allyl Chloride	2.094	41	122115	8.611	ppbv	100
22) trans-1,2-Dichloroethene	2.340	96	83278	9.084	ppbv	100
23) Vinyl Acetate	2.460	43	69649	8.378	ppbv	100
24) 1,1-Dichloroethane	2.408	63	161102	9.251	ppbv	100
25) Ethyl Acetate	2.836	43	461315	9.110	ppbv	100
26) Hexane	2.826	57	178691	8.720	ppbv	100
27) Carbon Disulfide	2.149	76	209297	9.539	ppbv	100
28) Methyl tert-Butyl Ether	2.441	73	117924	8.783	ppbv	100
29) Chloroform	2.848	83	269088	9.290	ppbv	100
30) Cyclohexane	3.855	84	157035	9.517	ppbv	100
31) cis-1,2-Dichloroethene	2.719	61	183082	9.397	ppbv	100
32) 1,1,1-Trichloroethane	3.366	97	285336	9.187	ppbv	100
34) 2-Butanone	2.557	43	251704	8.683	ppbv	100
35) Carbon Tetrachloride	3.761	117	282402	8.513	ppbv	100
36) Benzene	3.654	78	367355	9.292	ppbv	100
37) 1,2-Dichloroethane	3.217	62	216999	9.145	ppbv	100
38) Trichloroethene	4.548	130	144767	8.352	ppbv	100
39) 1,2-Dichloropropane	4.311	63	135605	9.197	ppbv	100
40) 1,4-Dioxane	4.580	88	66662	8.348	ppbv #	100
41) Tetrahydrofuran	3.052	42	149905	8.950	ppbv	100
42) Bromodichloromethane	4.489	83	312268	9.456	ppbv	100
43) Methyl Methacrylate	4.881	69	157501	8.876	ppbv	100
44) 2,2,4-Trimethylpentane	4.642	57	626085	9.157	ppbv	100
45) t-1,3-Dichloropropene	6.415	75	168223	9.233	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042349.D
 Acq On : 17 Apr 2025 09:44
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 01:25:08 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

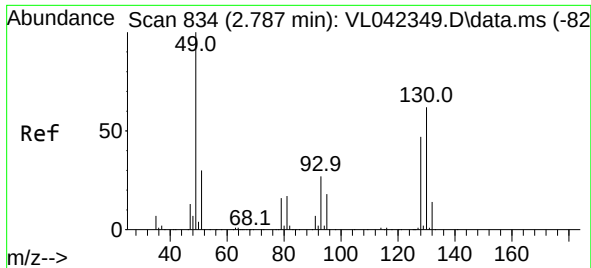
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Fri Apr 18 01:24:29 2025

Response via : Initial Calibration

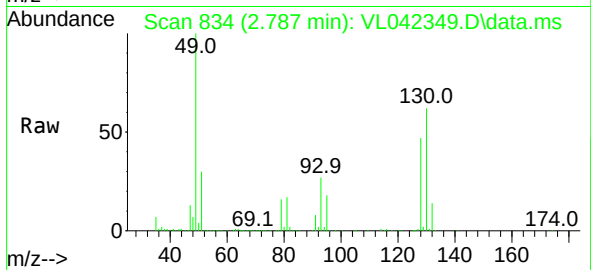
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.600	75	208811	9.377	ppbv	100
47) 1,1,2-Trichloroethane	6.580	97	137898	9.181	ppbv	100
48) Dibromochloromethane	7.386	129	248954	9.388	ppbv	100
49) Bromoform	9.480	173	225706	9.734	ppbv	100
50) 4-Methyl-2-Pentanone	5.752	43	396548	8.215	ppbv	100
51) 2-Hexanone	7.435	43	327165	7.511	ppbv	100
52) Tetrachloroethene	8.225	164	130720	8.553	ppbv	100
53) Toluene	6.933	91	437258	9.216	ppbv	100
54) 1,2-Dibromoethane	7.652	107	197665	9.235	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.927	131	186041	9.091	ppbv	100
57) Chlorobenzene	8.920	112	323084	9.187	ppbv	100
58) Ethyl Benzene	9.354	91	619581	9.248	ppbv	100
59) m/p-Xylene	9.552	91	984458m	18.187	ppbv	
60) o-Xylene	9.963	91	487616	8.972	ppbv	100
61) Styrene	9.869	104	245487	9.464	ppbv	100
62) Isopropylbenzene	10.539	105	733788	9.197	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.963	83	295041	8.355	ppbv	100
64) n-propylbenzene	10.989	120	183390	9.144	ppbv	100
65) tert-Butylbenzene	11.532	119	644953	8.795	ppbv	100
66) Benzyl Chloride	11.617	91	83269	10.333	ppbv	100
67) sec-Butylbenzene	11.769	105	900074	8.824	ppbv	100
69) p-Isopropyltoluene	11.927	119	778987	8.790	ppbv	100
70) n-Butylbenzene	12.283	91	801364	8.682	ppbv	100
71) 2-Chlorotoluene	10.901	91	573039	9.157	ppbv	100
72) 4-Ethyltoluene	11.125	105	596757	8.982	ppbv	100
73) 1,3,5-Trimethylbenzene	11.205	105	512855	8.743	ppbv	100
74) 1,2,4-Trimethylbenzene	11.539	105	565064	8.248	ppbv	100
75) 1,3-Dichlorobenzene	11.607	146	320380	8.997	ppbv	100
76) 1,4-Dichlorobenzene	11.672	146	319089	8.915	ppbv	100
77) 1,2-Dichlorobenzene	11.947	146	305822	8.832	ppbv	100
78) Hexachloro-1,3-Butadiene	13.882	225	291833	8.346	ppbv	100
79) Naphthalene	13.513	128	677578	8.271	ppbv	100
80) Naphthalene,2-methyl-	14.458	142	376995	8.074	ppbv	100
81) 1,2,4-Trichlorobenzene	13.442	180	306119	8.702	ppbv	100

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 834
Delta R.T. -0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

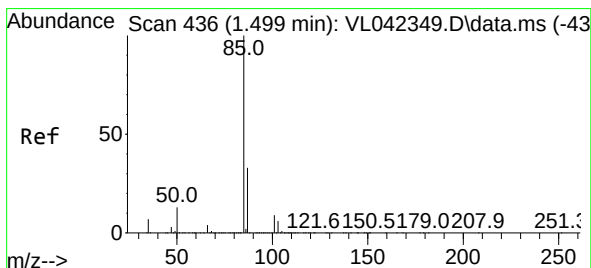
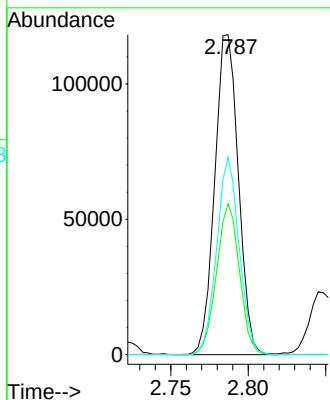
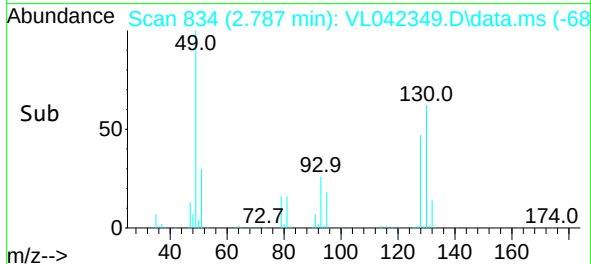
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



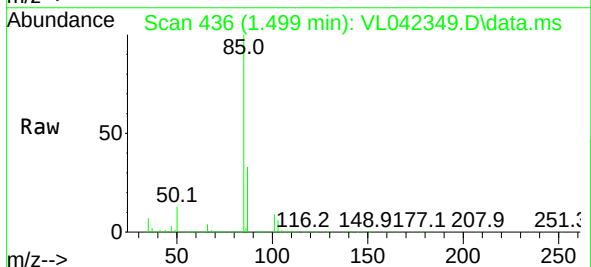
Tgt Ion: 49 Resp: 125458
Ion Ratio Lower Upper
49 100
128 45.6 22.8 68.4
130 58.7 29.3 88.0

Manual Integrations
APPROVED

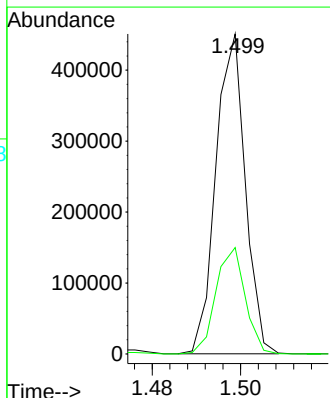
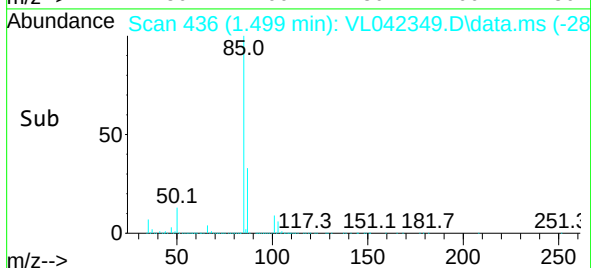
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

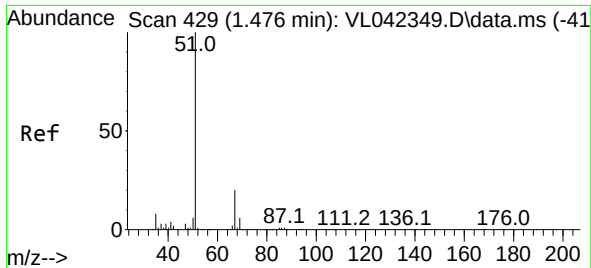


#2
Dichlorodifluoromethane
Concen: 9.382 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



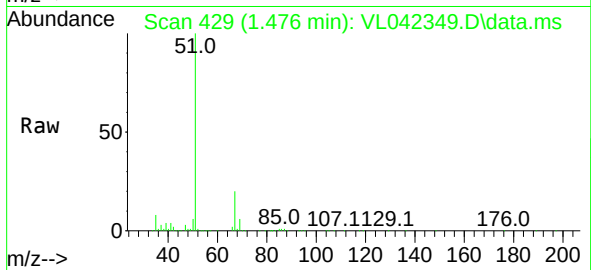
Tgt Ion: 85 Resp: 207962
Ion Ratio Lower Upper
85 100
87 33.2 26.6 39.8





#3
Chlorodifluoromethane
Concen: 9.350 ppbv
RT: 1.476 min Scan# 429
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

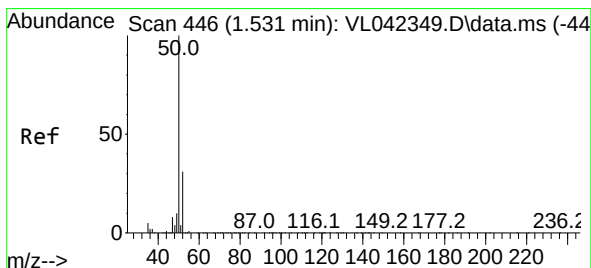
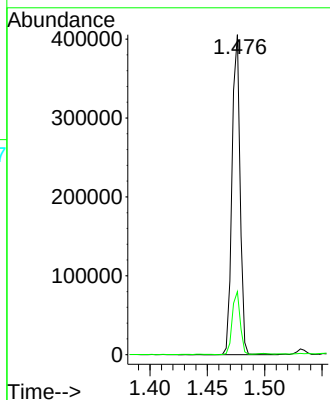
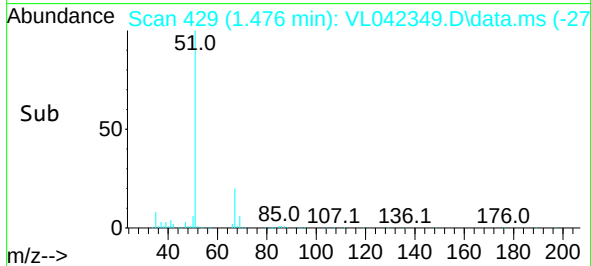
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



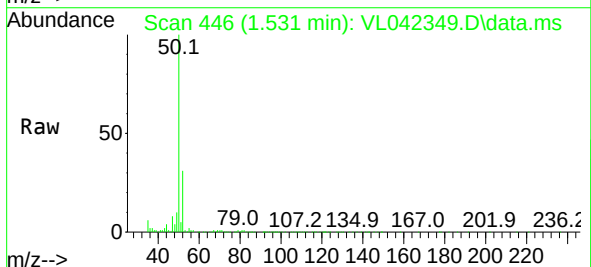
Tgt Ion: 51 Resp: 197334
Ion Ratio Lower Upper
51 100
67 20.3 16.2 24.4

Manual Integrations
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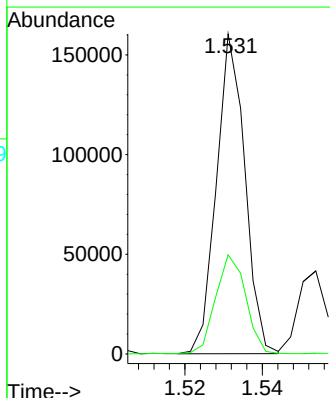
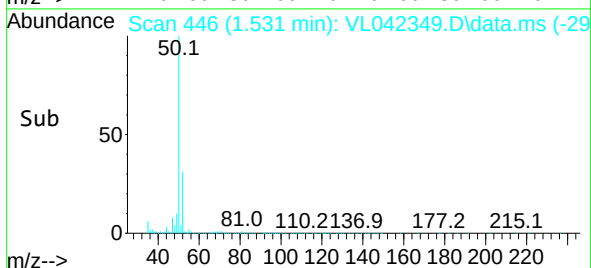
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

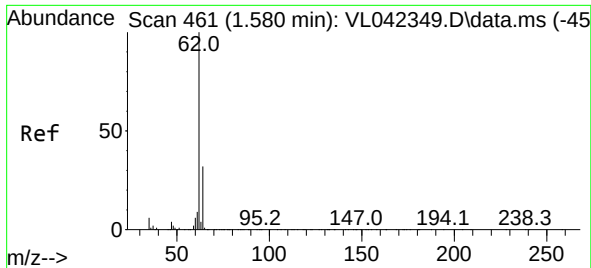


#4
Chloromethane
Concen: 9.330 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



Tgt Ion: 50 Resp: 81843
Ion Ratio Lower Upper
50 100
52 30.9 24.7 37.1





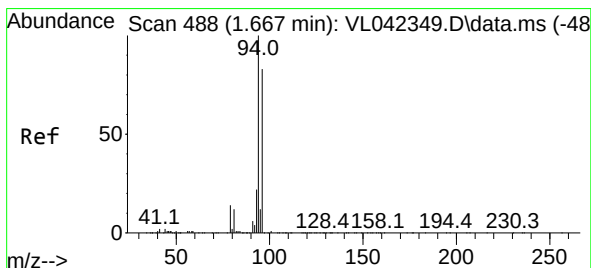
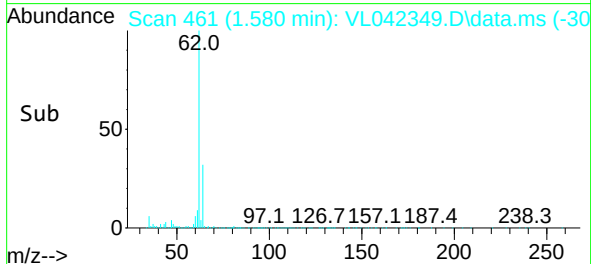
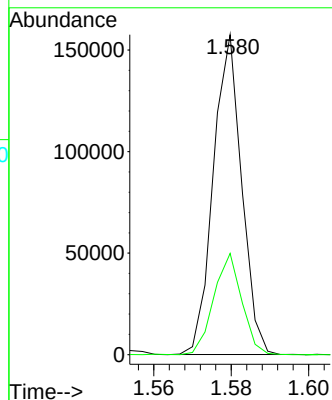
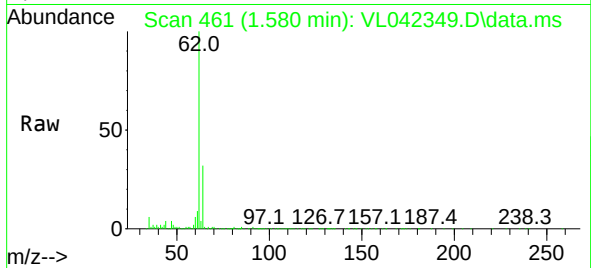
#5
 Vinyl Chloride
 Concen: 8.385 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tgt Ion: 62 Resp: 80068
 Ion Ratio Lower Upper
 62 100
 64 31.7 25.4 38.0

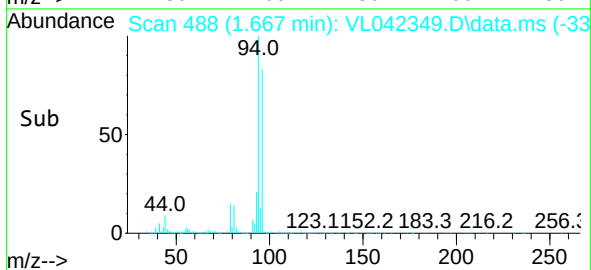
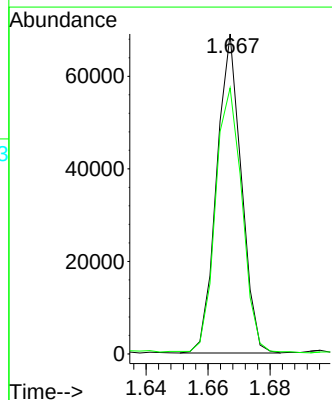
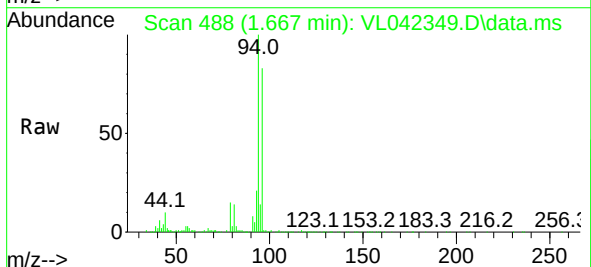
Manual Integrations
 APPROVED

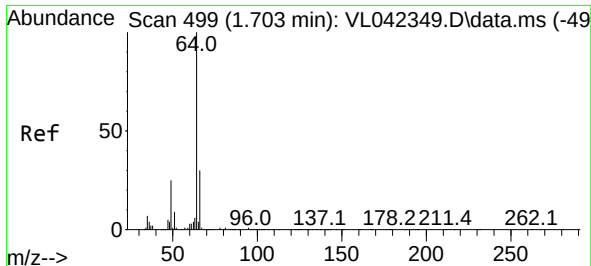
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#6
 Bromomethane
 Concen: 9.219 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44

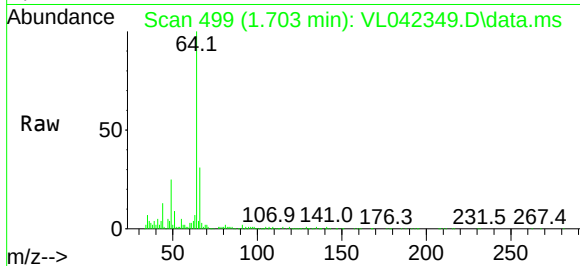
Tgt Ion: 94 Resp: 38128
 Ion Ratio Lower Upper
 94 100
 96 82.7 66.2 99.2





#7
Chloroethane
Concen: 9.182 ppbv
RT: 1.703 min Scan# 499
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

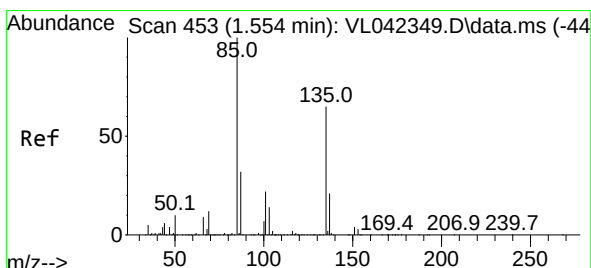
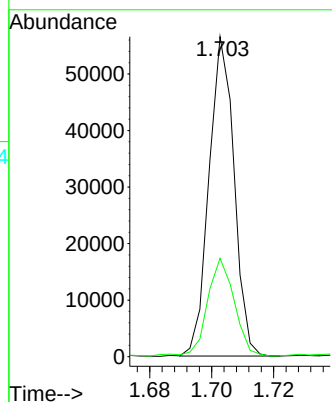
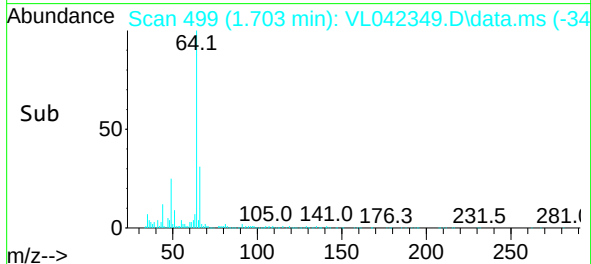
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



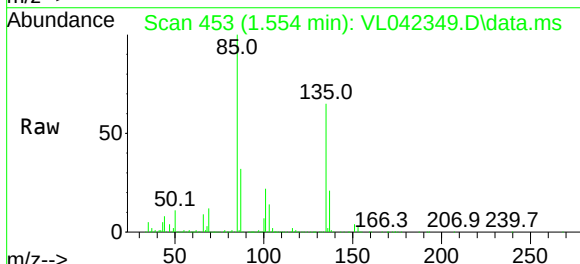
Tgt Ion: 64 Resp: 31705
Ion Ratio Lower Upper
64 100
66 30.8 24.6 37.0

Manual Integrations
APPROVED

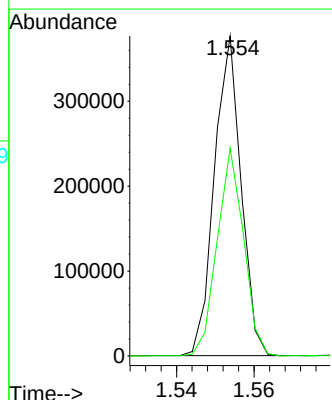
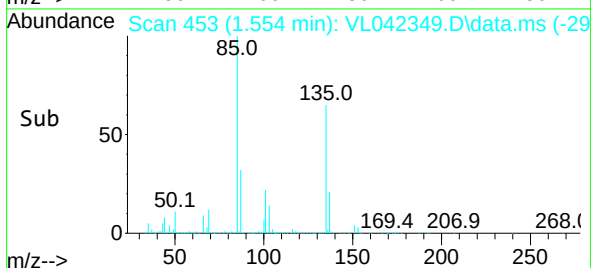
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

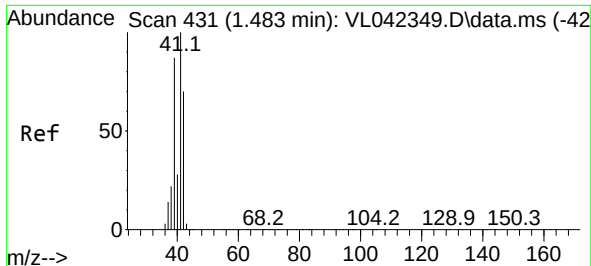


#8
Dichlorotetrafluoroethane
Concen: 9.442 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



Tgt Ion: 85 Resp: 179696
Ion Ratio Lower Upper
85 100
135 65.2 52.2 78.2





#9

Propene

Concen: 9.002 ppbv

RT: 1.483 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL042349.D

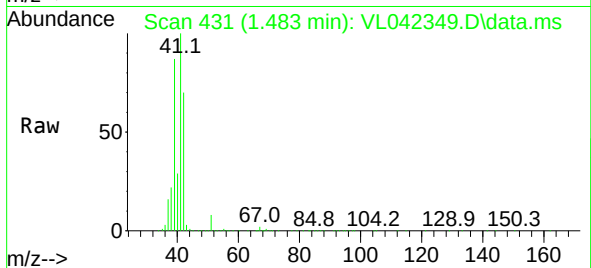
Acq: 17 Apr 2025 09:44

Instrument :

MSVOA_L

ClientSampleId :

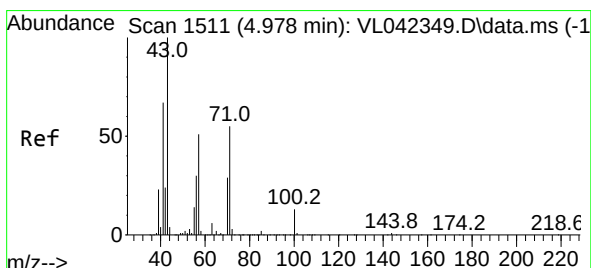
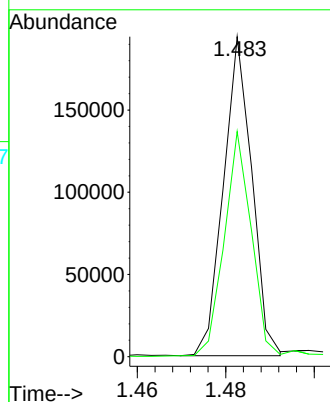
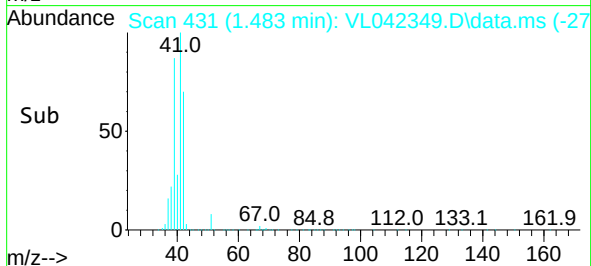
VSTDICCC010



Tgt Ion: 41 Resp: 86530
Ion Ratio Lower Upper
41 100
42 70.3 56.2 84.4

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#10

Heptane

Concen: 9.138 ppbv

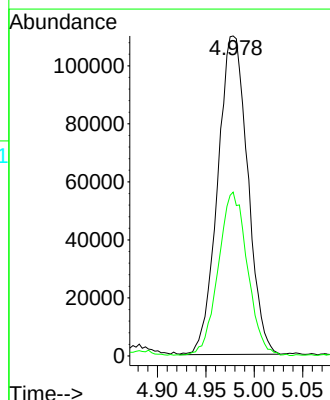
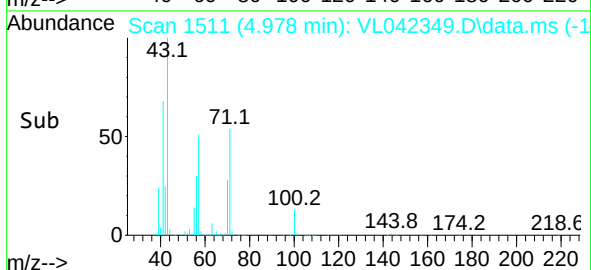
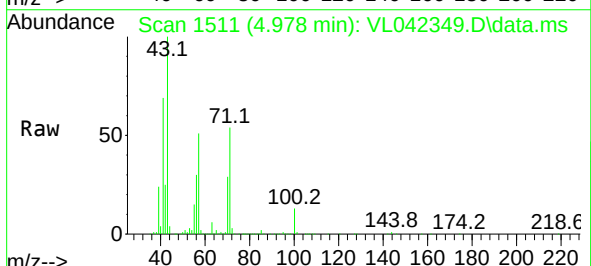
RT: 4.978 min Scan# 1511

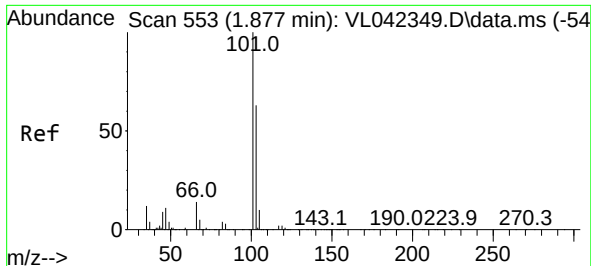
Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

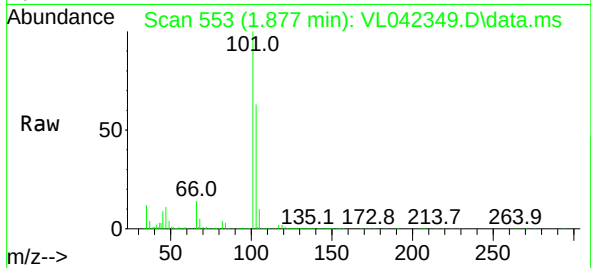
Tgt Ion: 43 Resp: 236341
Ion Ratio Lower Upper
43 100
57 49.9 39.9 59.9





#11
 Trichlorofluoromethane
 Concen: 9.327 ppbv
 RT: 1.877 min Scan# 511
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44

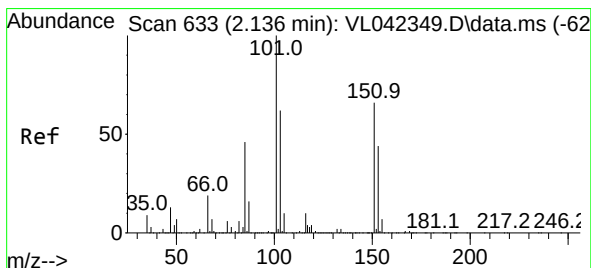
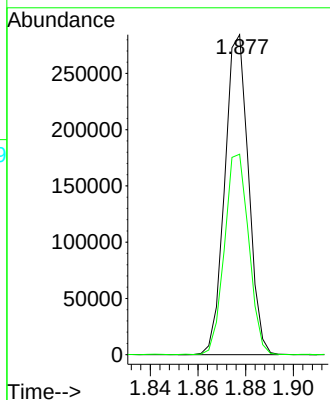
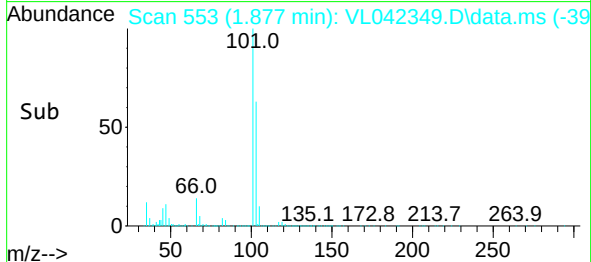
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



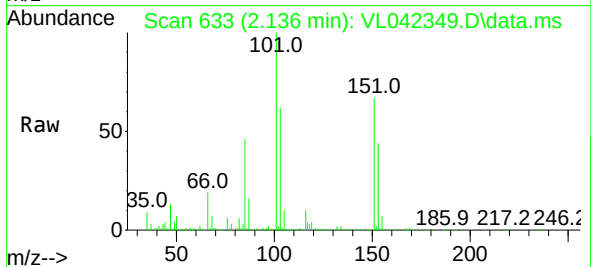
Tgt Ion:101 Resp: 196590
 Ion Ratio Lower Upper
 101 100
 103 62.6 50.1 75.1

Manual Integrations
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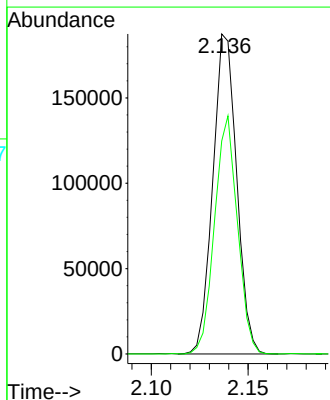
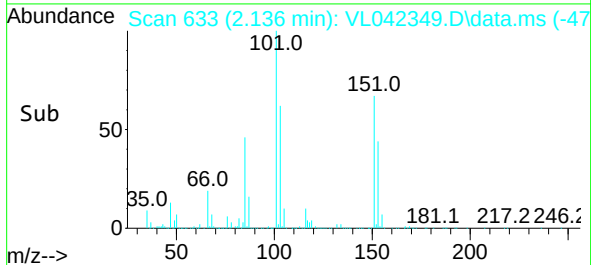
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

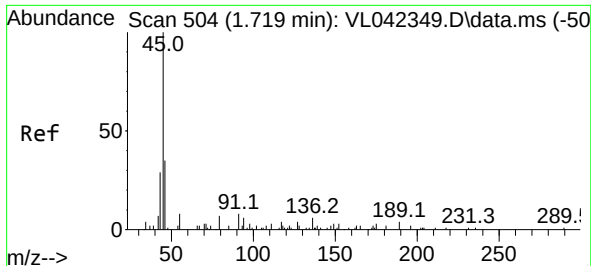


#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.323 ppbv
 RT: 2.136 min Scan# 633
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44



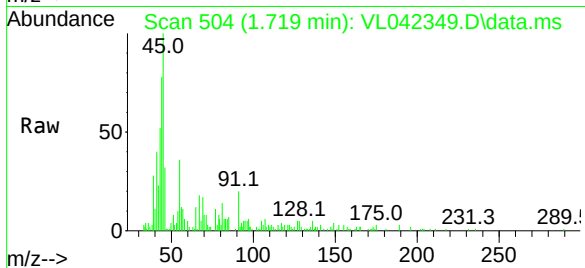
Tgt Ion:101 Resp: 160682
 Ion Ratio Lower Upper
 101 100
 151 71.3 57.0 85.6





#13
Ethanol
Concen: 5.651 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

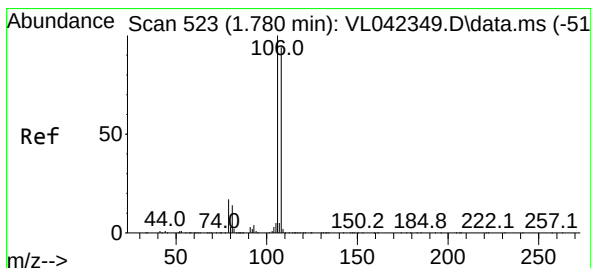
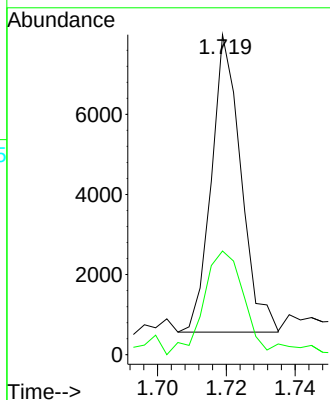
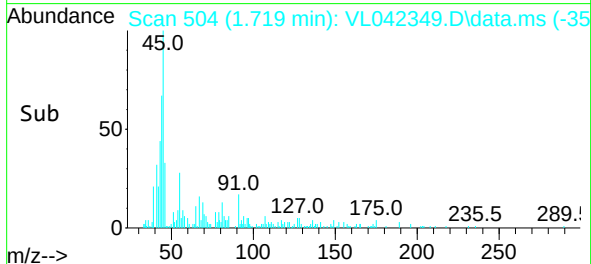
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



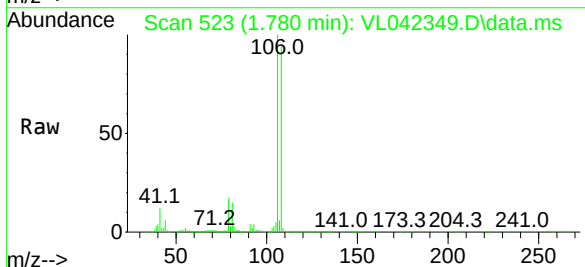
Tgt Ion: 45 Resp: 4439
Ion Ratio Lower Upper
45 100
46 54.8 21.9 87.7

Manual Integrations
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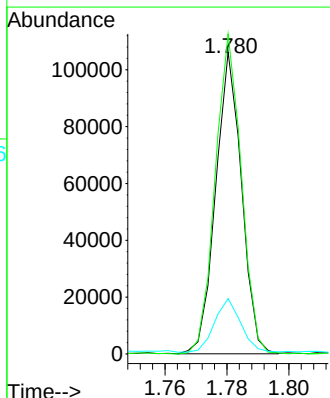
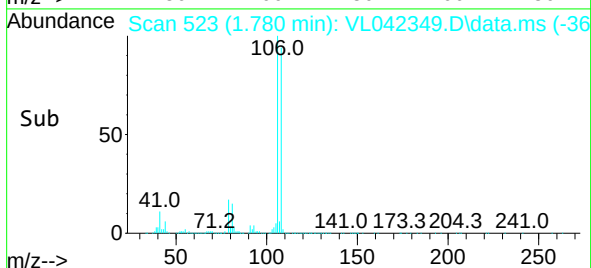
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

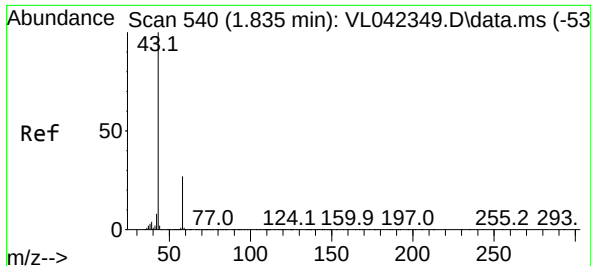


#14
Bromoethene
Concen: 9.466 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



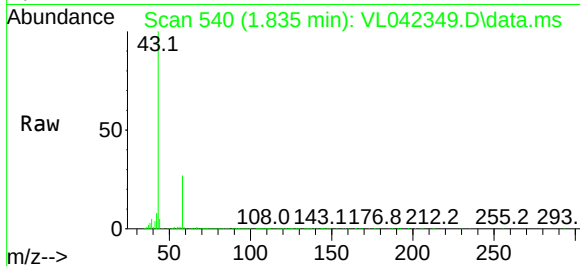
Tgt Ion:108 Resp: 61493
Ion Ratio Lower Upper
108 100
106 107.4 85.9 128.9
79 17.4 13.9 20.9





#15
Acetone
Concen: 7.717 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

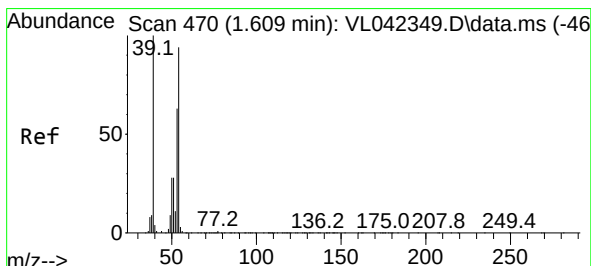
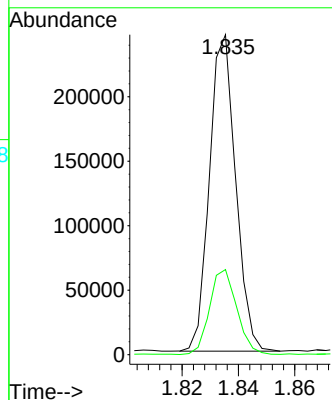
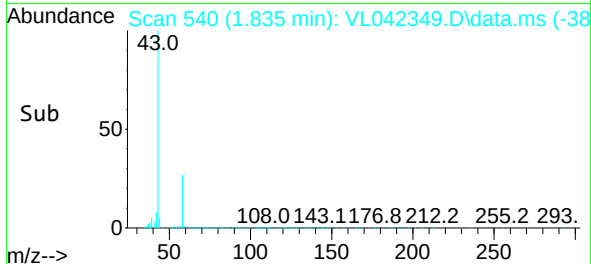
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



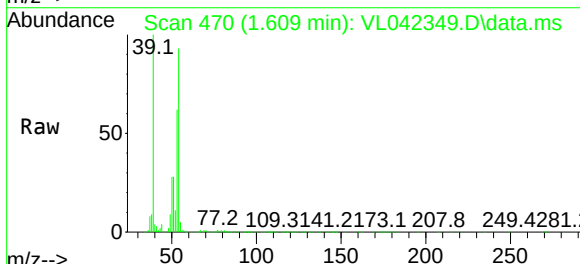
Tgt Ion: 43 Resp: 158490
Ion Ratio Lower Upper
43 100
58 28.0 22.4 33.6

Manual Integrations
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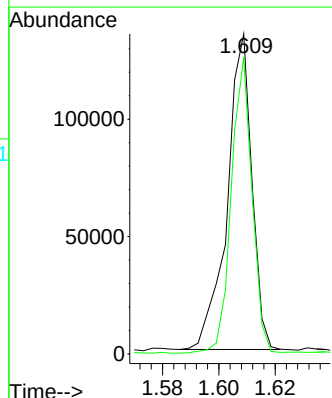
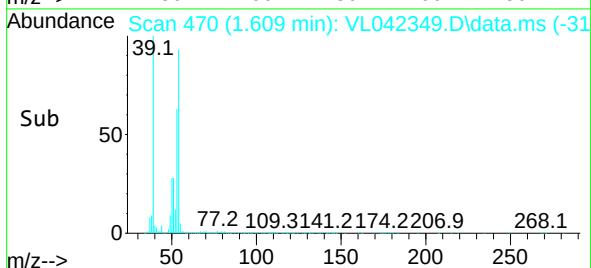
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

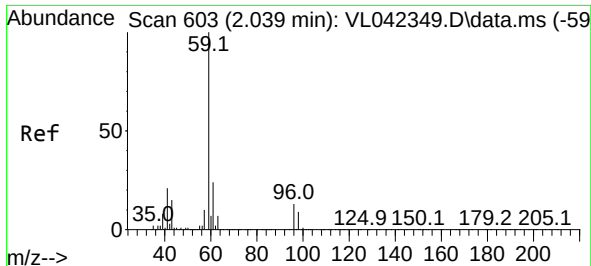


#16
1,3-Butadiene
Concen: 8.470 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



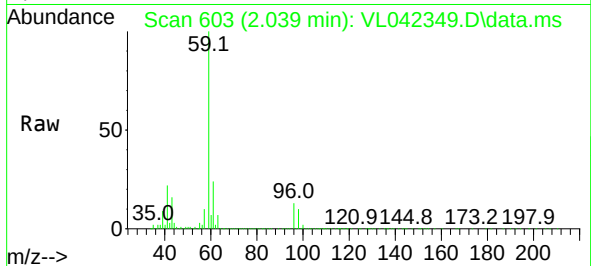
Tgt Ion: 39 Resp: 81688
Ion Ratio Lower Upper
39 100
54 81.1 64.9 97.3





#17
tert-Butyl alcohol
Concen: 8.891 ppbv
RT: 2.039 min Scan# 603
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

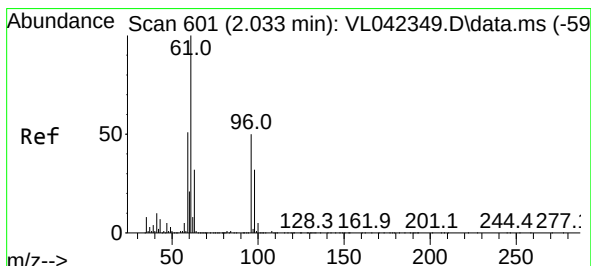
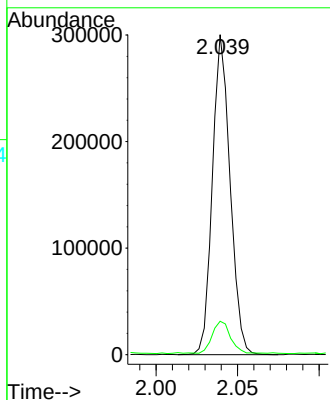
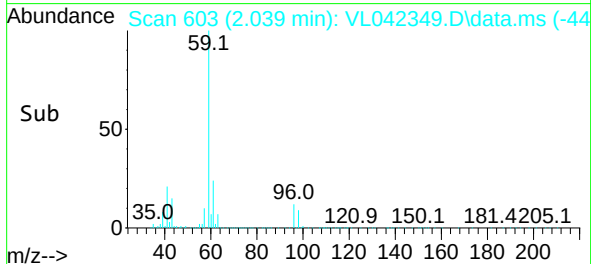
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



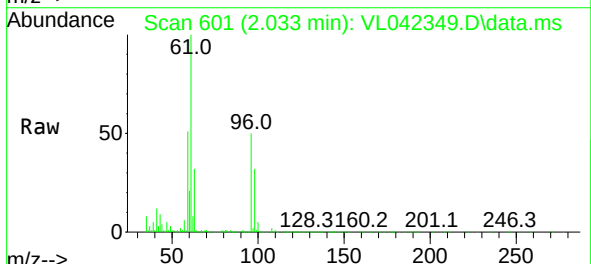
Tgt Ion: 59 Resp: 226280
Ion Ratio Lower Upper
59 100
57 10.9 8.7 13.1

Manual Integrations
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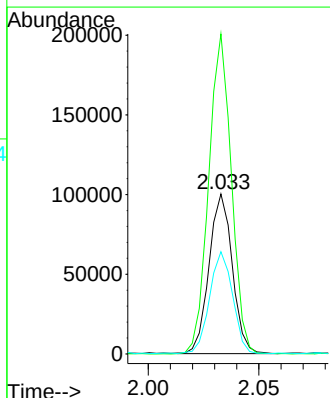
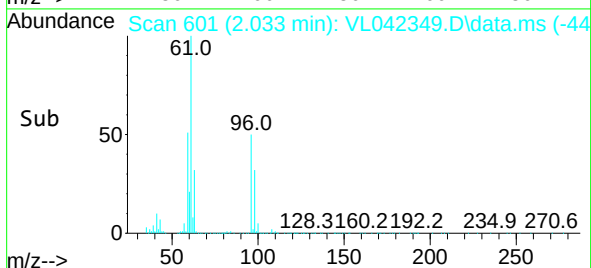
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

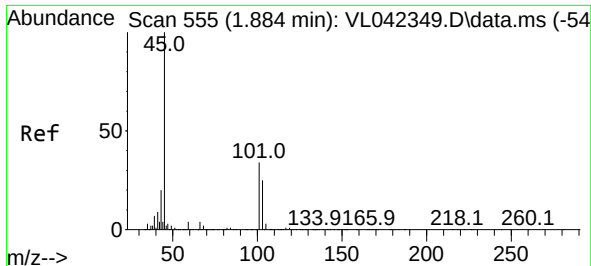


#18
1,1-Dichloroethene
Concen: 8.833 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



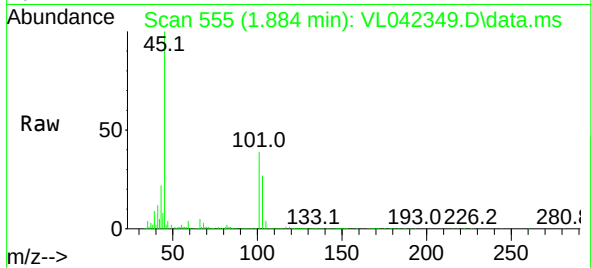
Tgt Ion: 96 Resp: 73186
Ion Ratio Lower Upper
96 100
61 200.2 160.2 240.2
98 63.7 51.0 76.4





#19
Isopropyl Alcohol
Concen: 9.031 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

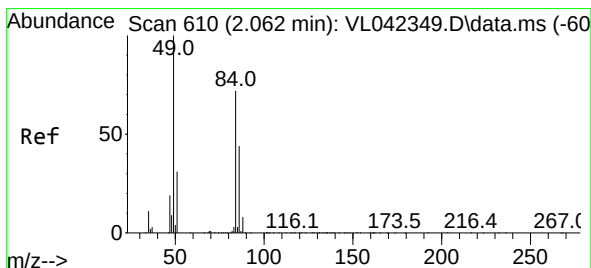
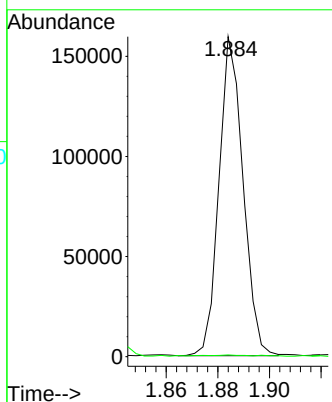
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



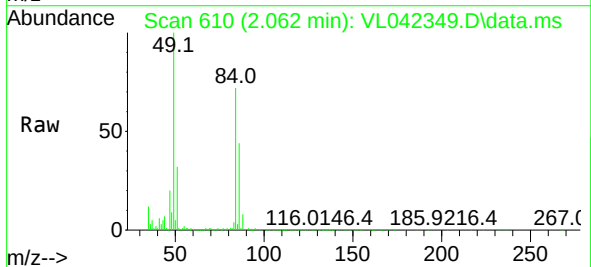
Tgt Ion: 45 Resp: 103029
Ion Ratio Lower Upper
45 100
58 43.1 34.5 51.7

Manual Integrations
APPROVED

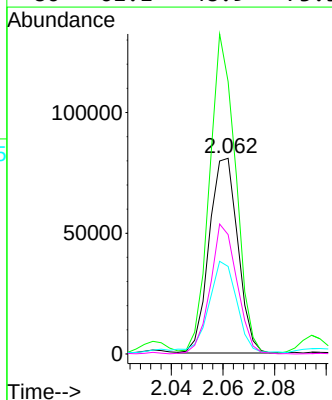
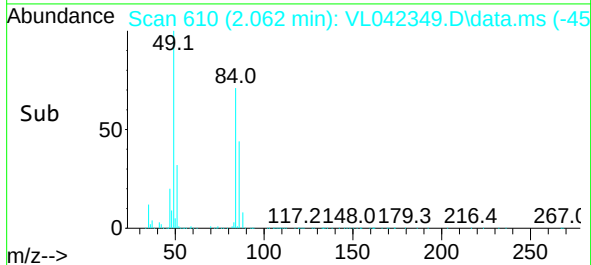
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

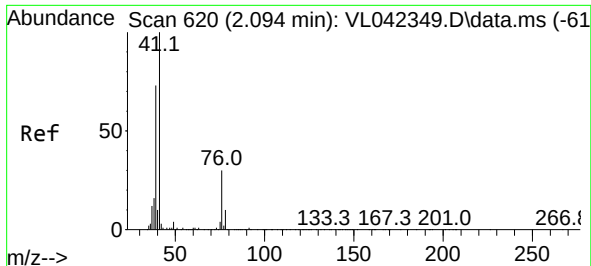


#20
Methylene Chloride
Concen: 7.760 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



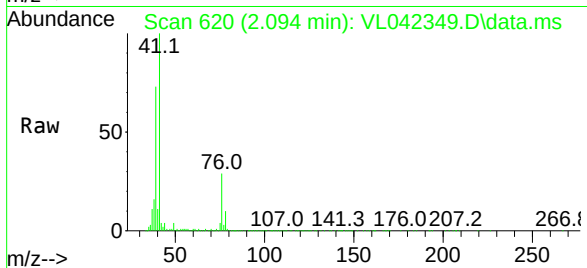
Tgt Ion: 84 Resp: 62414
Ion Ratio Lower Upper
84 100
49 139.5 111.6 167.4
51 43.9 35.1 52.7
86 61.1 48.9 73.3





#21
 Allyl Chloride
 Concen: 8.611 ppbv
 RT: 2.094 min Scan# 611
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44

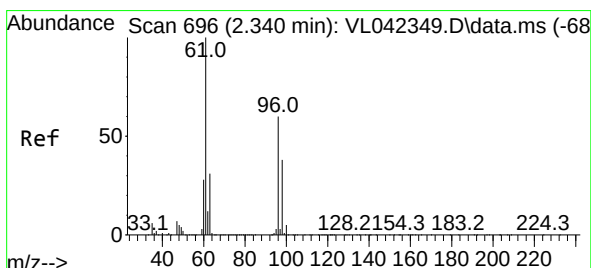
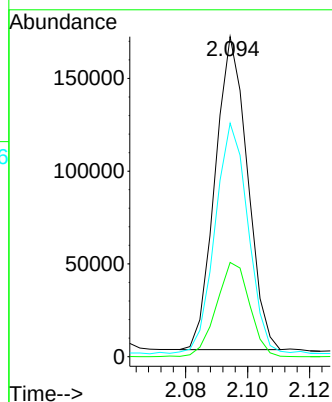
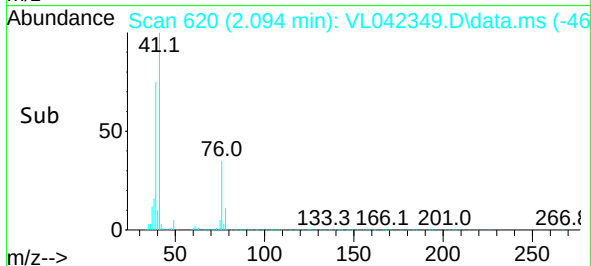
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



Tgt Ion: 41 Resp: 122115
 Ion Ratio Lower Upper
 41 100
 76 31.0 24.8 37.2
 39 75.7 60.6 90.8

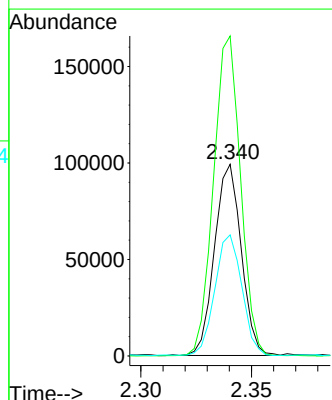
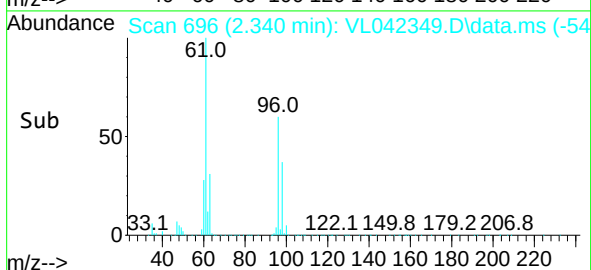
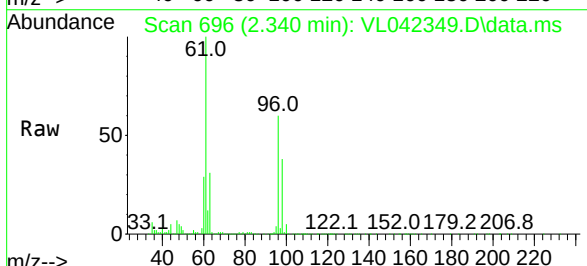
Manual Integrations
 APPROVED

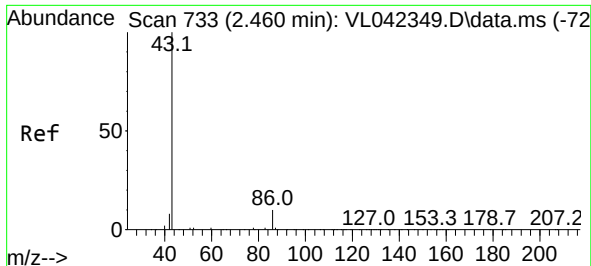
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#22
 trans-1,2-Dichloroethene
 Concen: 9.084 ppbv
 RT: 2.340 min Scan# 696
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44

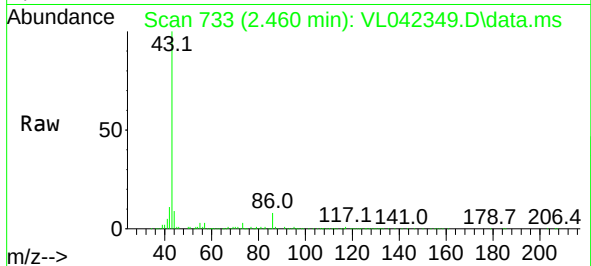
Tgt Ion: 96 Resp: 83278
 Ion Ratio Lower Upper
 96 100
 61 167.1 133.7 200.5
 98 62.9 50.3 75.5





#23
 Vinyl Acetate
 Concen: 8.378 ppbv
 RT: 2.460 min Scan# 717
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44

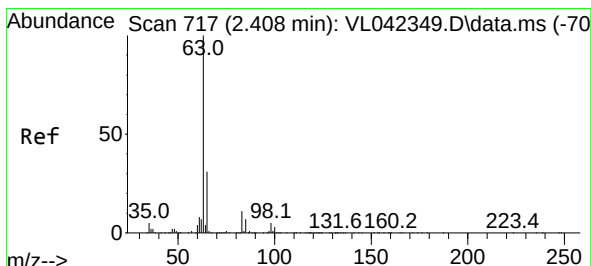
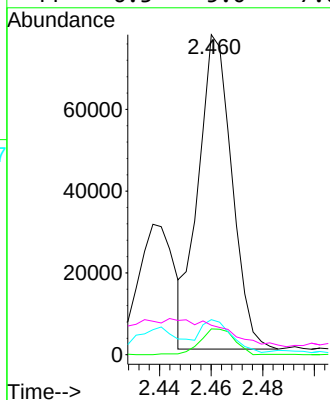
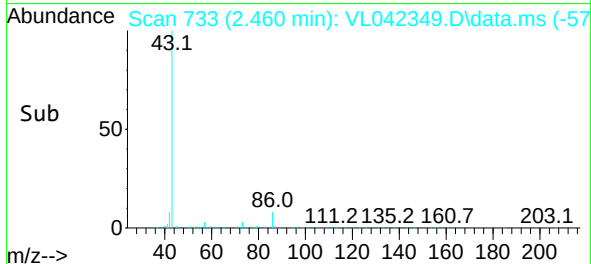
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010



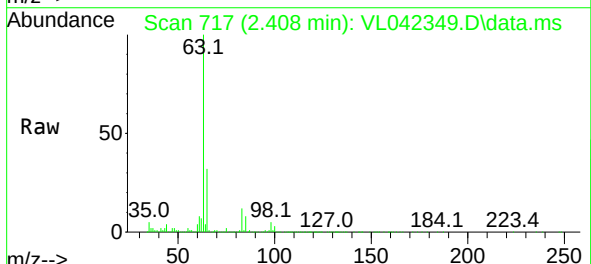
Tgt Ion: 43 Resp: 69649
 Ion Ratio Lower Upper
 43 100
 86 8.1 6.5 9.7
 42 9.8 7.8 11.8
 44 6.3 5.0 7.6

Manual Integrations
 APPROVED

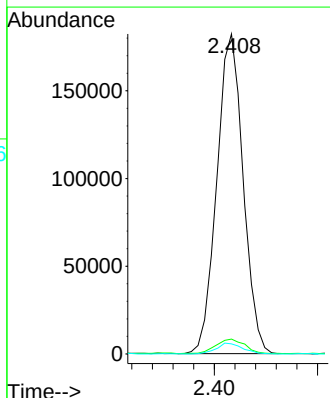
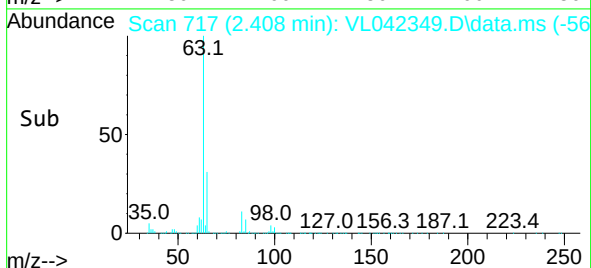
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

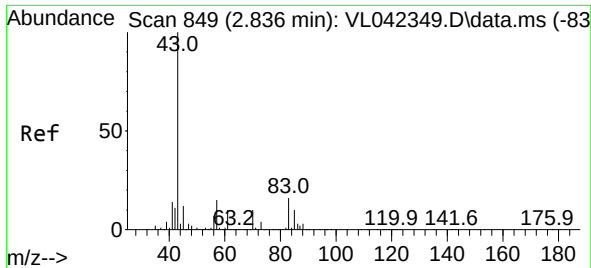


#24
 1,1-Dichloroethane
 Concen: 9.251 ppbv
 RT: 2.408 min Scan# 717
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44



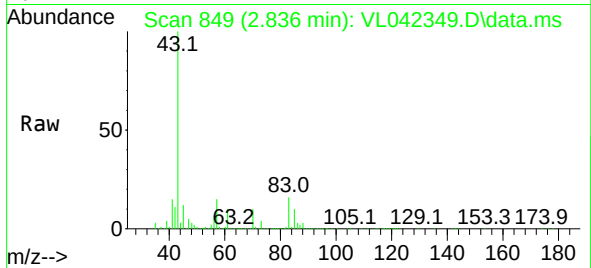
Tgt Ion: 63 Resp: 161102
 Ion Ratio Lower Upper
 63 100
 98 4.5 2.3 6.8
 100 3.2 1.6 4.8





#25
Ethyl Acetate
Concen: 9.110 ppbv
RT: 2.836 min Scan# 849
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

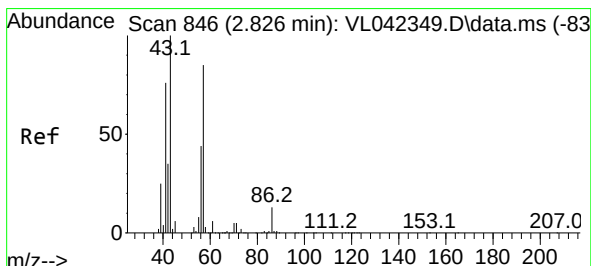
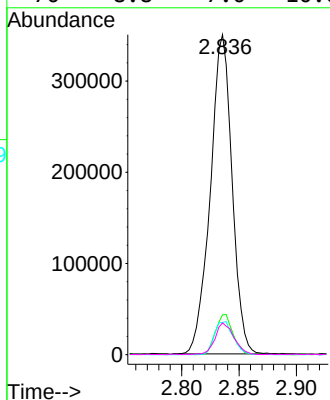
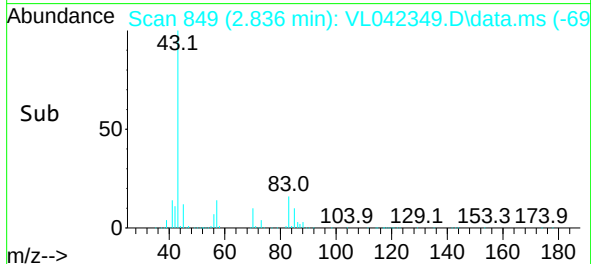
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



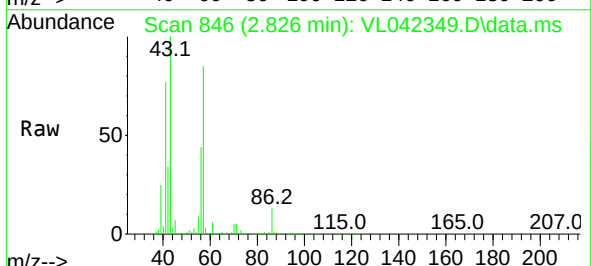
Tgt Ion: 43 Resp: 461315
Ion Ratio Lower Upper
43 100
45 10.4 8.3 12.5
61 9.1 7.3 10.9
70 8.8 7.0 10.6

Manual Integrations
APPROVED

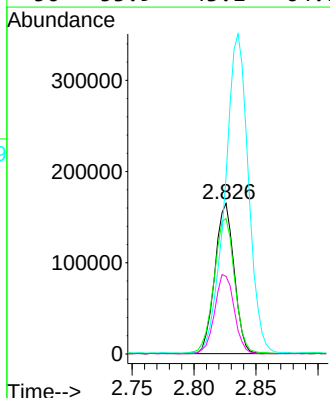
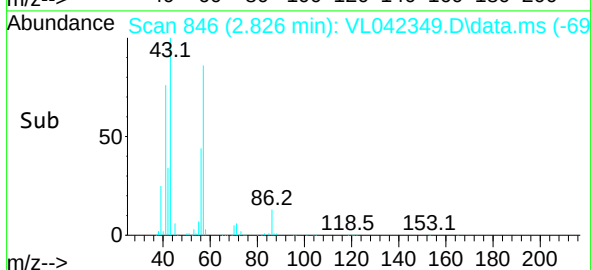
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

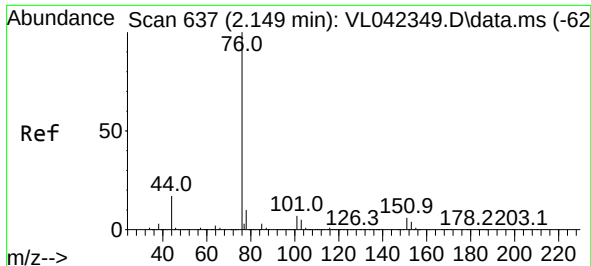


#26
Hexane
Concen: 8.720 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



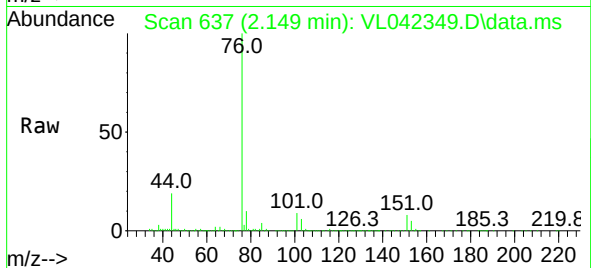
Tgt Ion: 57 Resp: 178691
Ion Ratio Lower Upper
57 100
41 97.4 77.9 116.9
43 260.5 208.4 312.6
56 53.9 43.1 64.7





#27
Carbon Disulfide
Concen: 9.539 ppbv
RT: 2.149 min Scan# 61
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

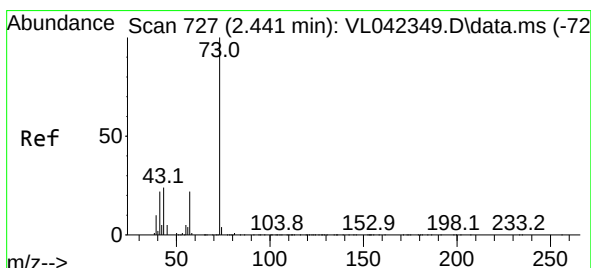
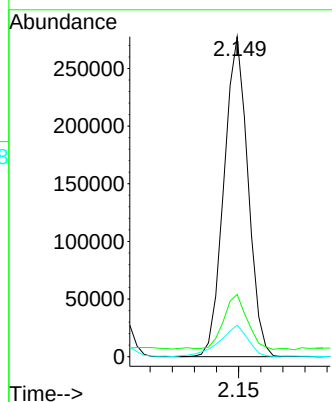
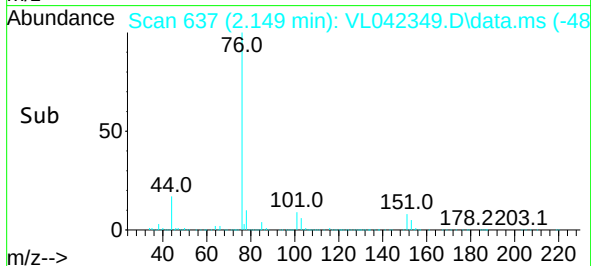
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



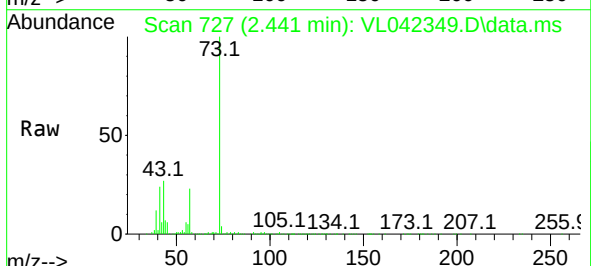
Tgt Ion: 76 Resp: 20929
Ion Ratio Lower Upper
76 100
44 19.4 15.5 23.3
78 11.6 9.3 13.9

Manual Integrations
APPROVED

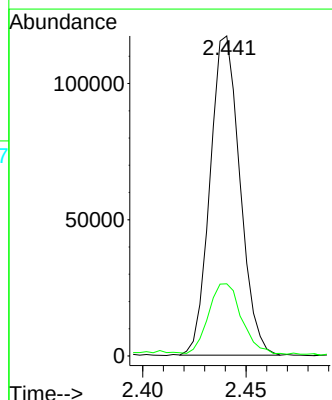
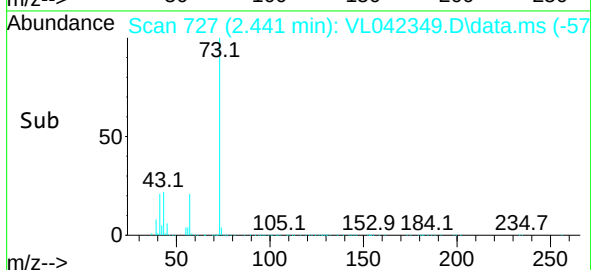
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

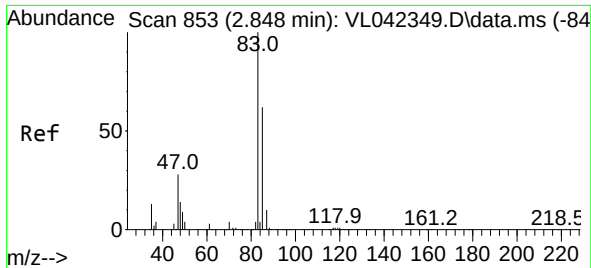


#28
Methyl tert-Butyl Ether
Concen: 8.783 ppbv
RT: 2.441 min Scan# 727
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



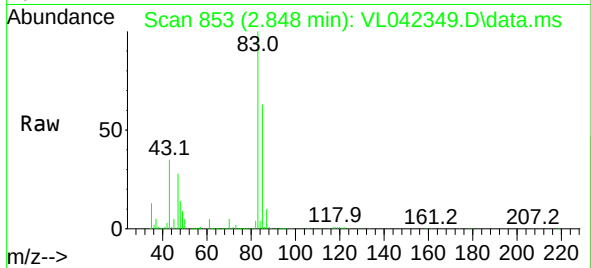
Tgt Ion: 73 Resp: 117924
Ion Ratio Lower Upper
73 100
57 26.6 21.3 31.9





#29
Chloroform
Concen: 9.290 ppbv
RT: 2.848 min Scan# 853
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

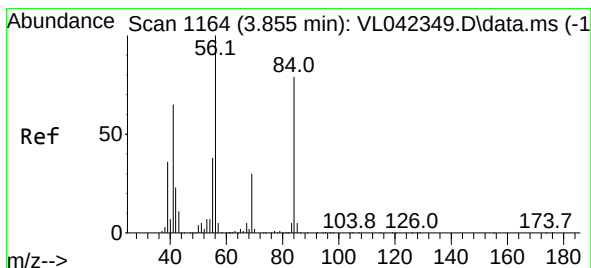
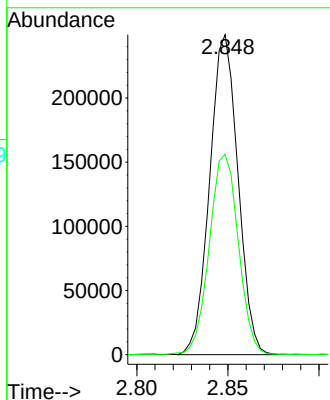
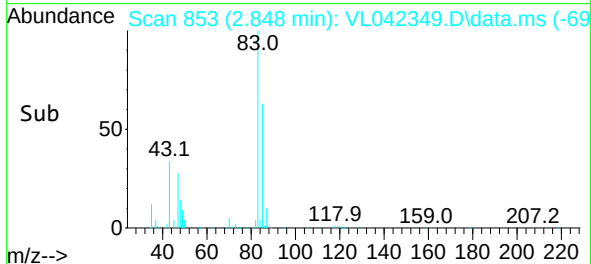
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



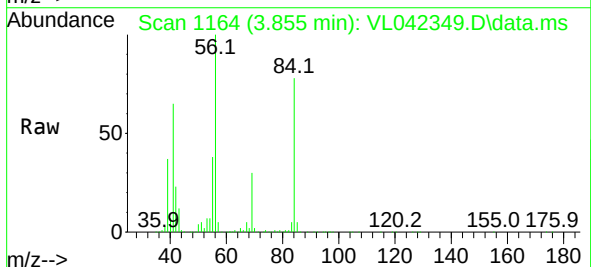
Tgt Ion: 83 Resp: 269088
Ion Ratio Lower Upper
83 100
85 62.5 50.0 75.0

Manual Integrations
APPROVED

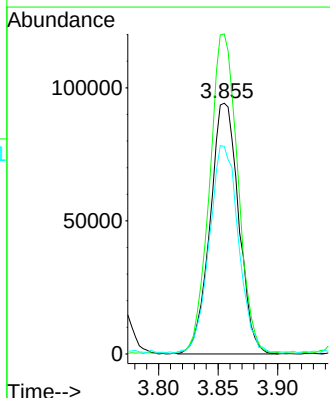
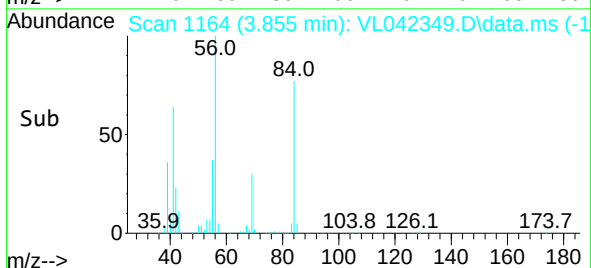
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

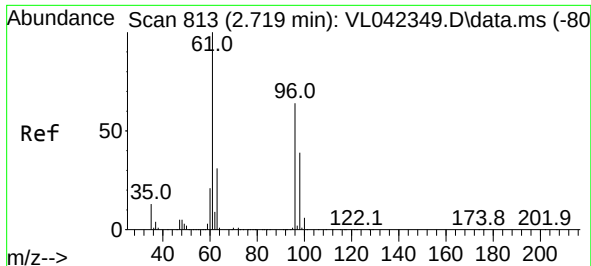


#30
Cyclohexane
Concen: 9.517 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



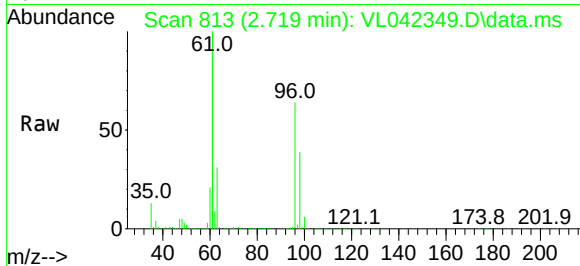
Tgt Ion: 84 Resp: 157035
Ion Ratio Lower Upper
84 100
56 126.2 101.0 151.4
41 84.2 67.4 101.0





#31
 cis-1,2-Dichloroethene
 Concen: 9.397 ppbv
 RT: 2.719 min Scan# 813
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44

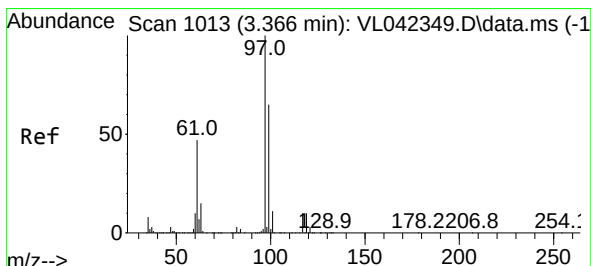
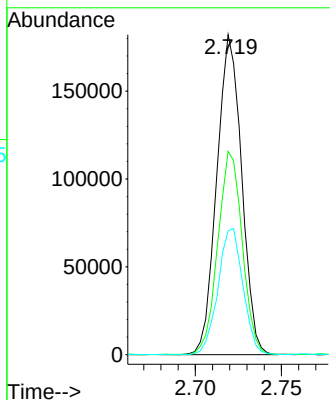
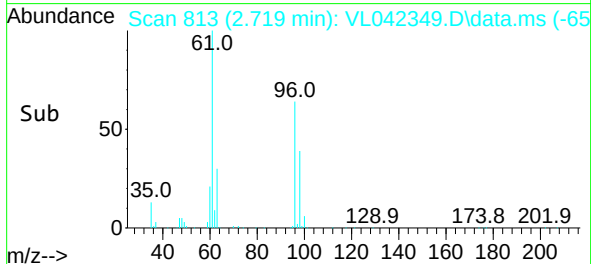
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



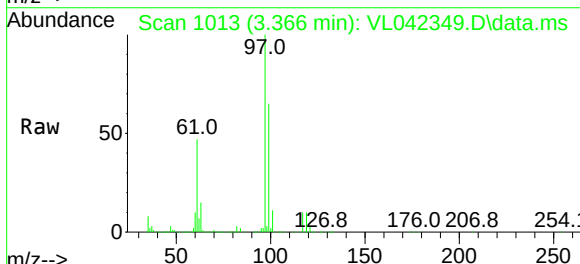
Tgt Ion: 61 Resp: 18308
 Ion Ratio Lower Upper
 61 100
 96 63.5 50.8 76.2
 98 38.6 30.9 46.3

Manual Integrations
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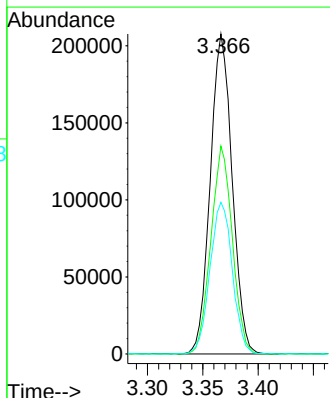
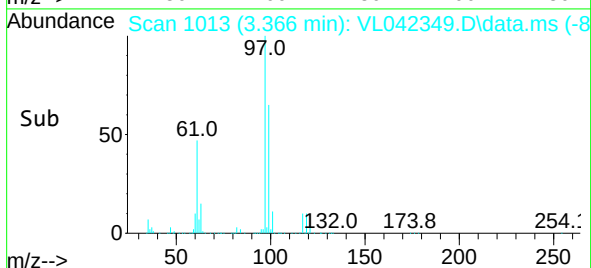
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

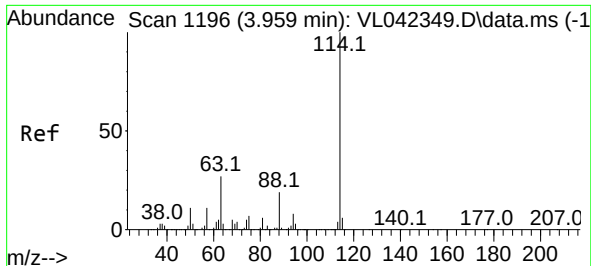


#32
 1,1,1-Trichloroethane
 Concen: 9.187 ppbv
 RT: 3.366 min Scan# 1013
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44



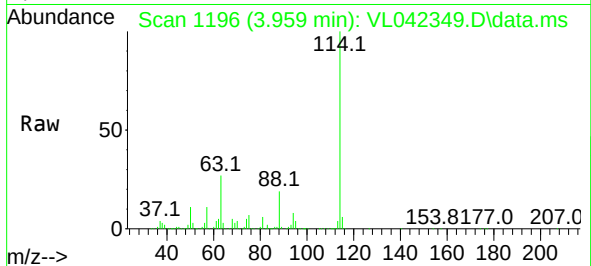
Tgt Ion: 97 Resp: 285336
 Ion Ratio Lower Upper
 97 100
 99 63.7 51.0 76.4
 61 48.5 38.8 58.2





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

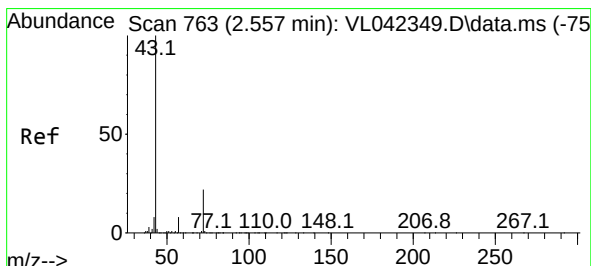
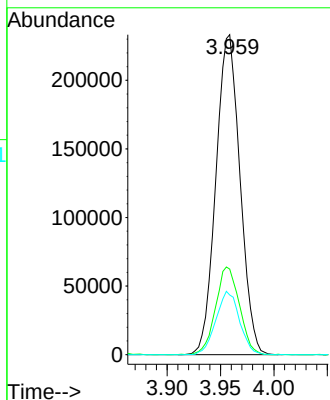
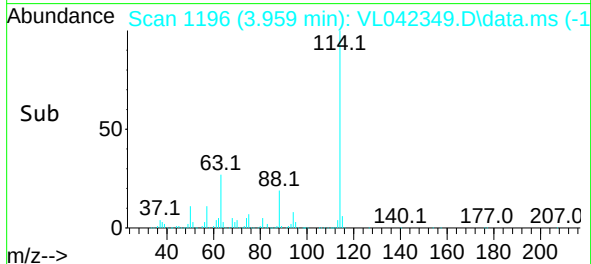
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion:114 Resp: 366544
Ion Ratio Lower Upper
114 100
63 27.2 21.8 32.6
88 19.4 15.5 23.3

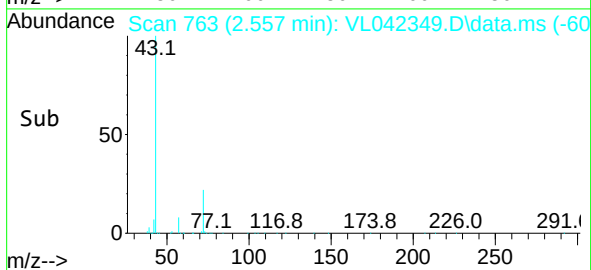
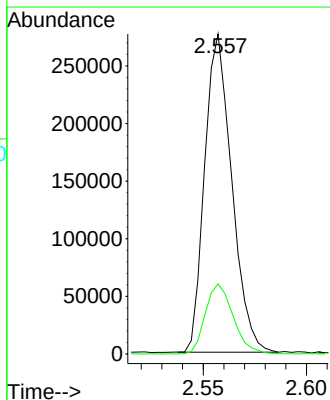
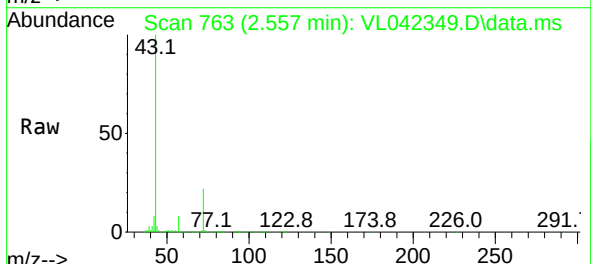
Manual Integrations
APPROVED

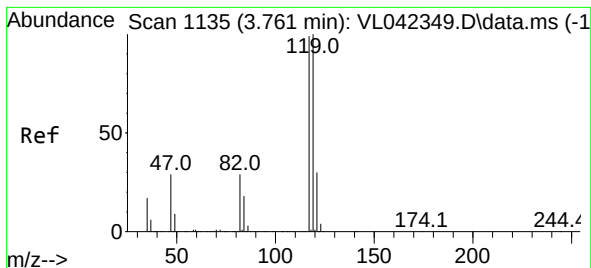
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#34
2-Butanone
Concen: 8.683 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 43 Resp: 251704
Ion Ratio Lower Upper
43 100
72 22.7 18.2 27.2





#35

Carbon Tetrachloride

Concen: 8.513 ppbv

RT: 3.761 min Scan# 1135

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

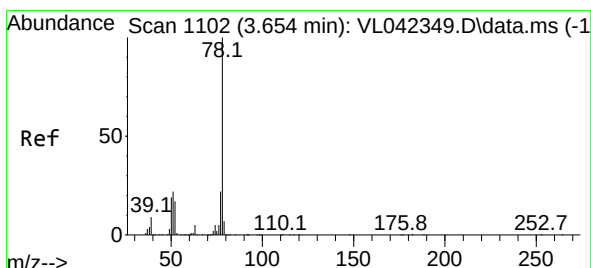
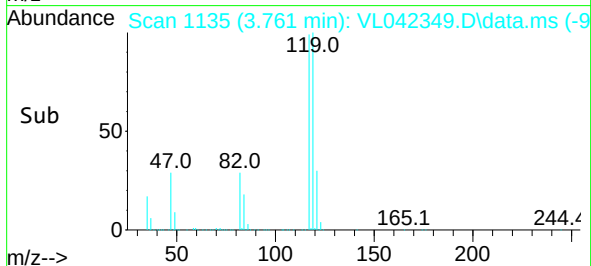
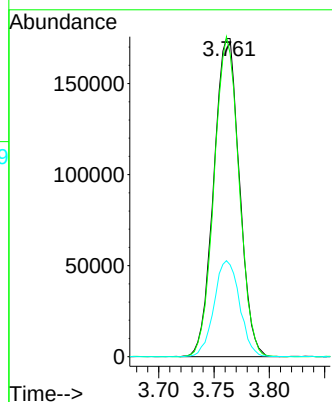
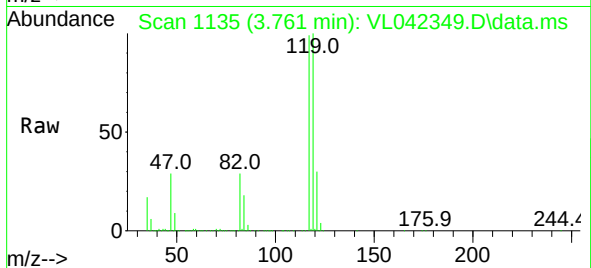
Tgt Ion:117 Resp: 28240

Ion	Ratio	Lower	Upper
117	100		
119	100.6	80.5	120.7
121	30.2	24.2	36.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#36

Benzene

Concen: 9.292 ppbv

RT: 3.654 min Scan# 1102

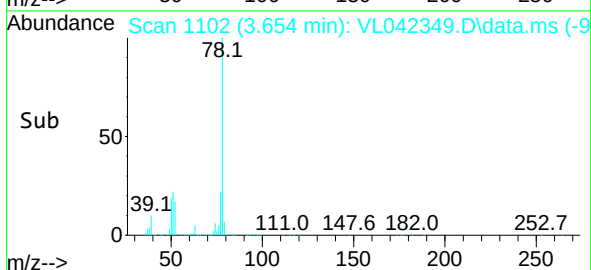
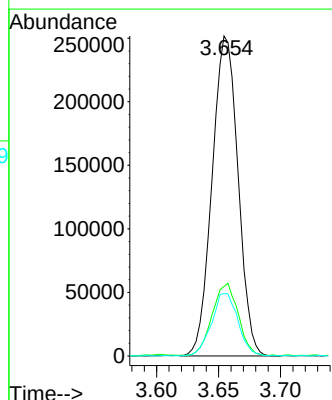
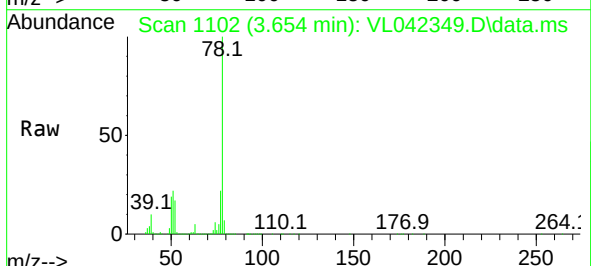
Delta R.T. 0.000 min

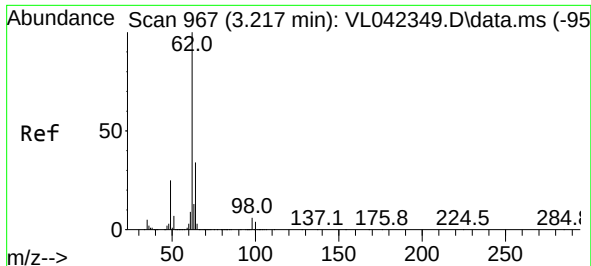
Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

Tgt Ion: 78 Resp: 367355

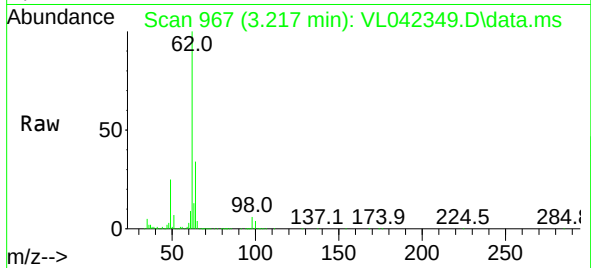
Ion	Ratio	Lower	Upper
78	100		
77	21.7	17.4	26.0
50	19.4	15.5	23.3





#37
1,2-Dichloroethane
Concen: 9.145 ppbv
RT: 3.217 min Scan# 967
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

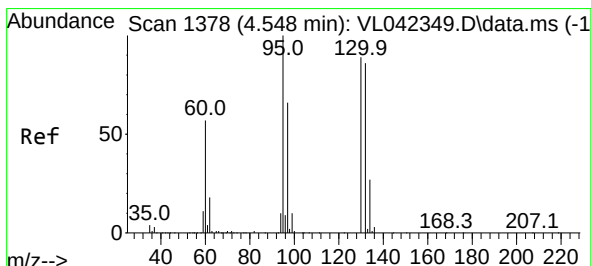
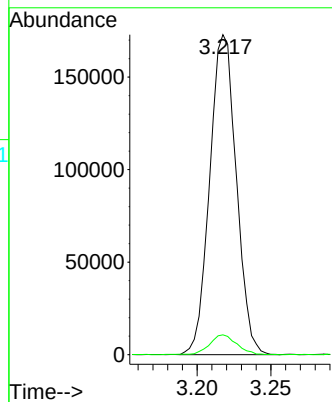
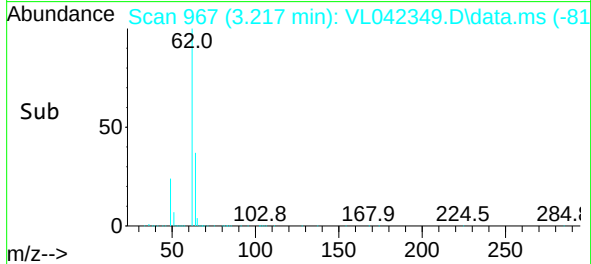
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion: 62 Resp: 216999
Ion Ratio Lower Upper
62 100
98 6.4 5.1 7.7

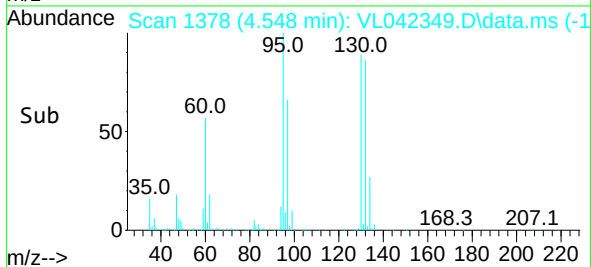
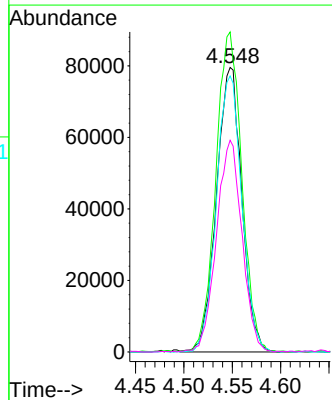
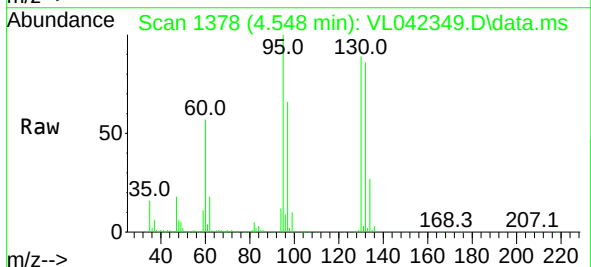
Manual Integrations
APPROVED

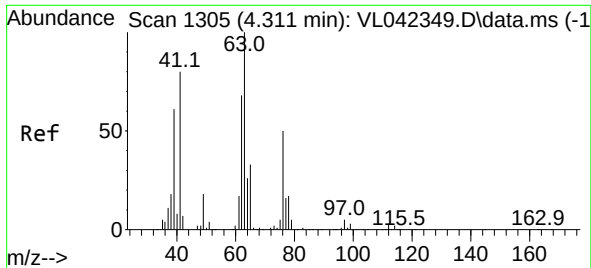
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#38
Trichloroethene
Concen: 8.352 ppbv
RT: 4.548 min Scan# 1378
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:130 Resp: 144767
Ion Ratio Lower Upper
130 100
95 112.2 89.8 134.6
132 97.1 77.7 116.5
97 74.3 59.4 89.2





#39

1,2-Dichloropropane

Concen: 9.197 ppbv

RT: 4.311 min Scan# 1305

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 63 Resp: 13560

Ion Ratio Lower Upper

63 100

41 80.2 64.2 96.2

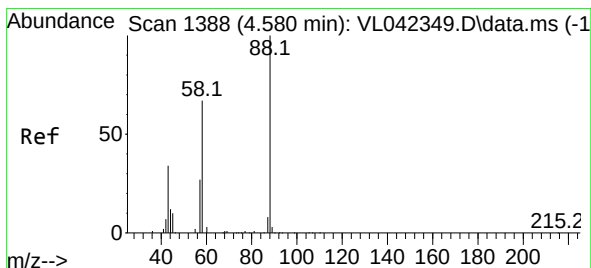
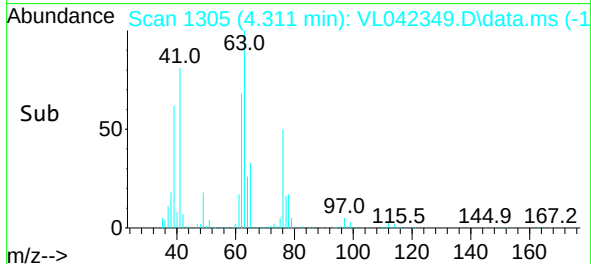
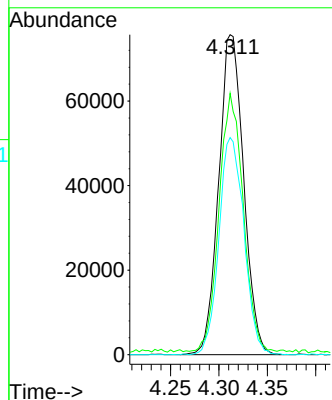
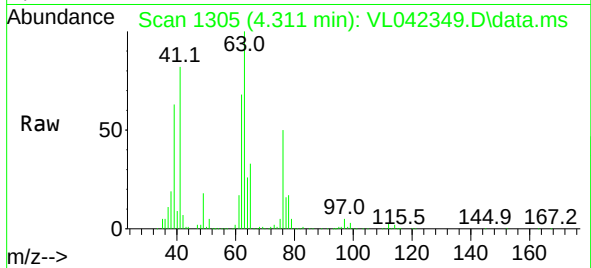
62 67.9 54.3 81.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#40

1,4-Dioxane

Concen: 8.348 ppbv

RT: 4.580 min Scan# 1388

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

Tgt Ion: 88 Resp: 66662

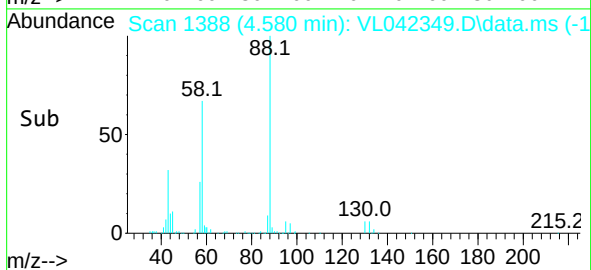
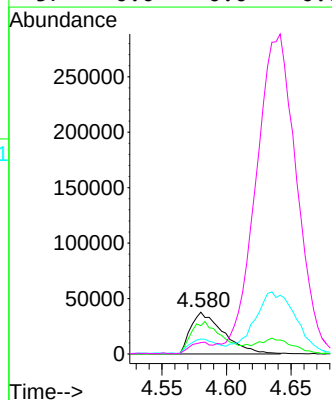
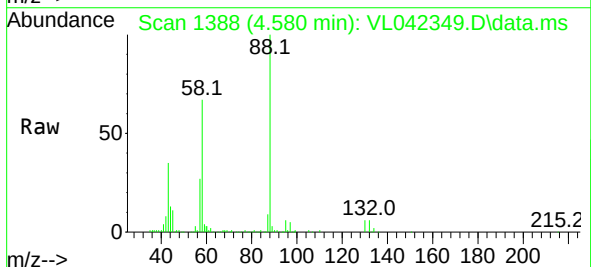
Ion Ratio Lower Upper

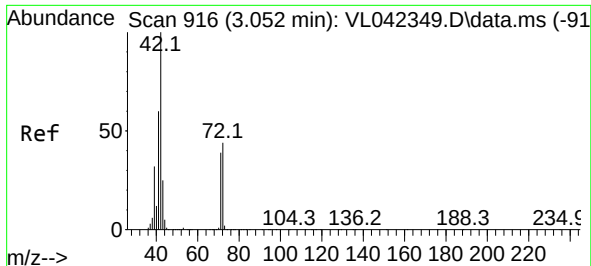
88 100

58 76.7 61.4 92.0

43 29.0 23.2 34.8

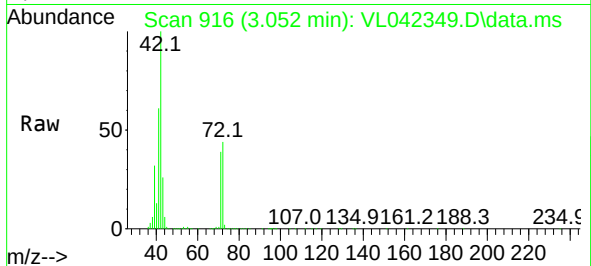
57 0.0 0.0 0.0





#41
Tetrahydrofuran
Concen: 8.950 ppbv
RT: 3.052 min Scan# 916
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

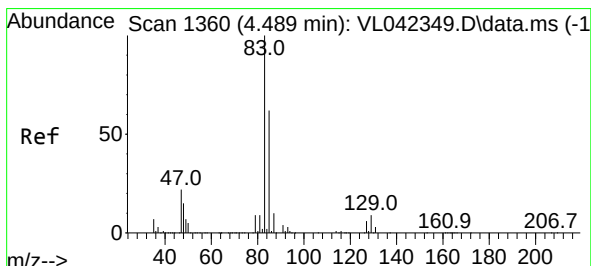
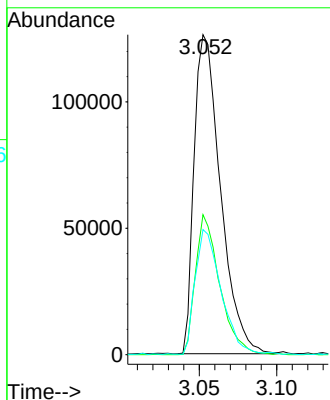
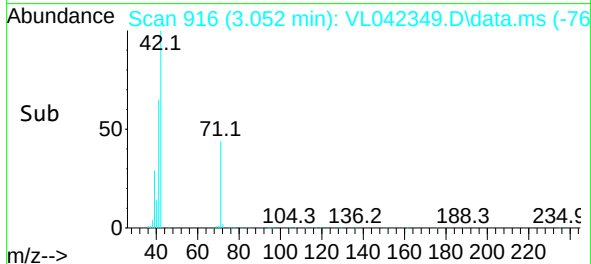
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



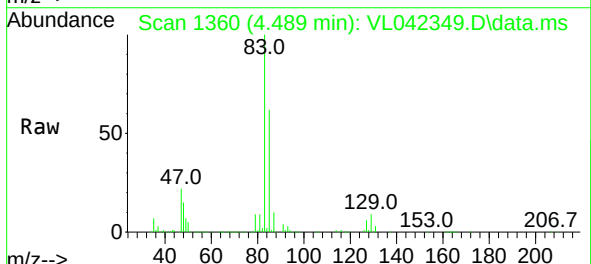
Tgt Ion: 42 Resp: 149905
Ion Ratio Lower Upper
42 100
72 40.4 32.3 48.5
71 39.3 31.4 47.2

Manual Integrations
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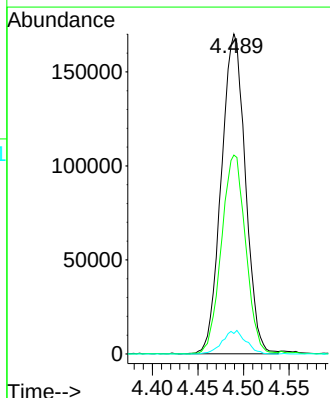
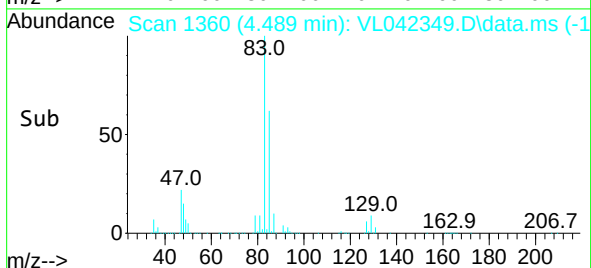
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

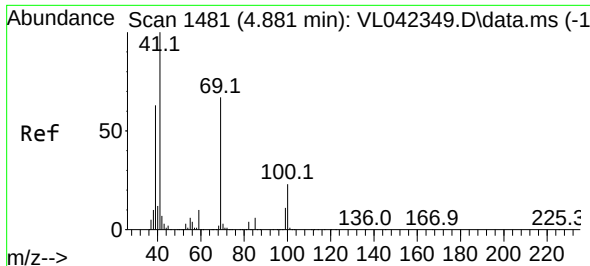


#42
Bromodichloromethane
Concen: 9.456 ppbv
RT: 4.489 min Scan# 1360
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



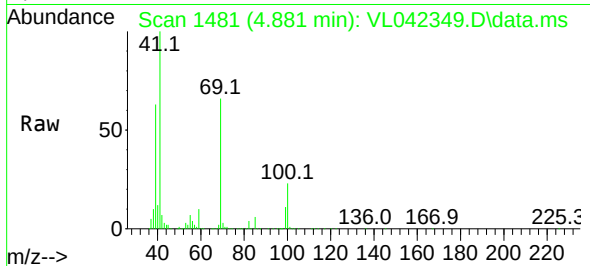
Tgt Ion: 83 Resp: 312268
Ion Ratio Lower Upper
83 100
85 62.1 49.7 74.5
127 6.4 5.1 7.7





#43
Methyl Methacrylate
Concen: 8.876 ppbv
RT: 4.881 min Scan# 1481
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

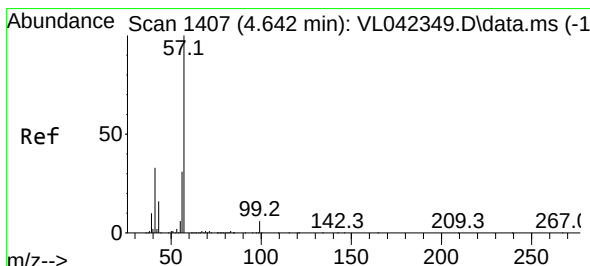
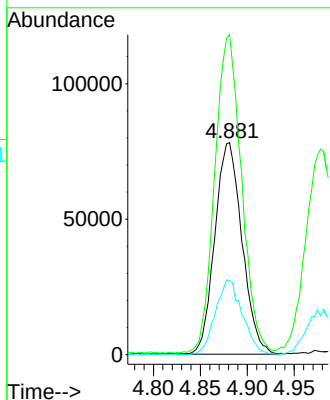
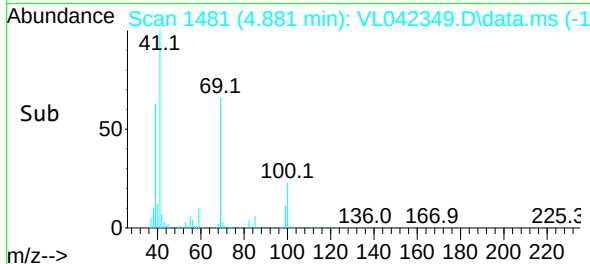
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



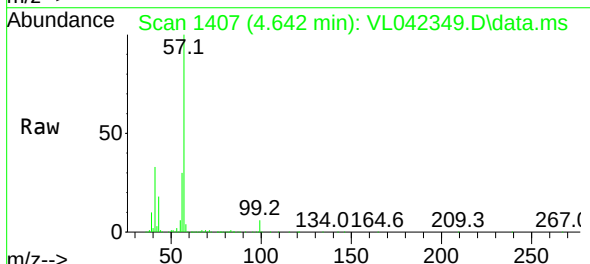
Tgt Ion: 69 Resp: 15750
Ion Ratio Lower Upper
69 100
41 148.2 118.6 177.8
100 35.2 28.2 42.2

Manual Integrations
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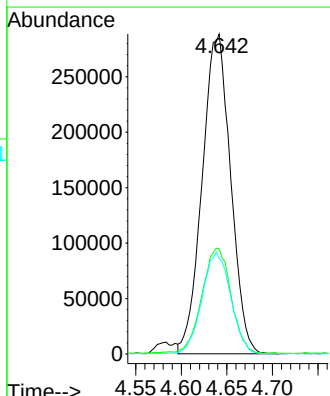
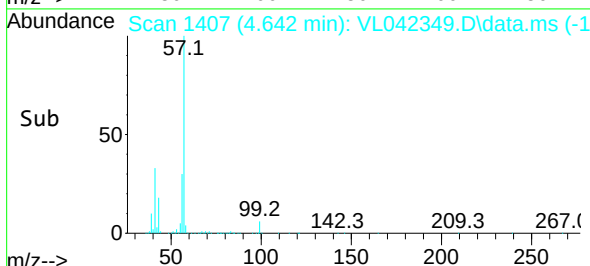
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

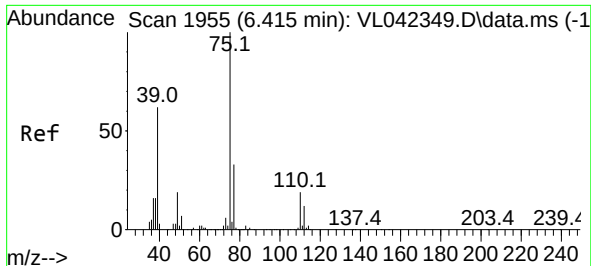


#44
2,2,4-Trimethylpentane
Concen: 9.157 ppbv
RT: 4.642 min Scan# 1407
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



Tgt Ion: 57 Resp: 626085
Ion Ratio Lower Upper
57 100
41 34.0 27.2 40.8
56 32.1 25.7 38.5





#45

t-1,3-Dichloropropene

Concen: 9.233 ppbv

RT: 6.415 min Scan# 1955

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 75 Resp: 16822

Ion Ratio Lower Upper

75 100

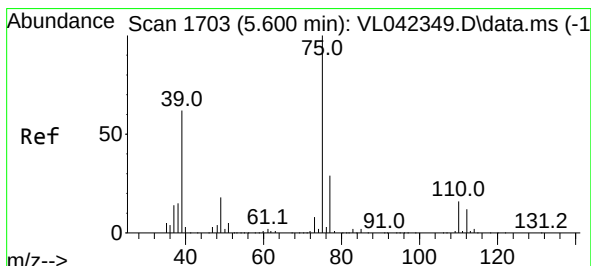
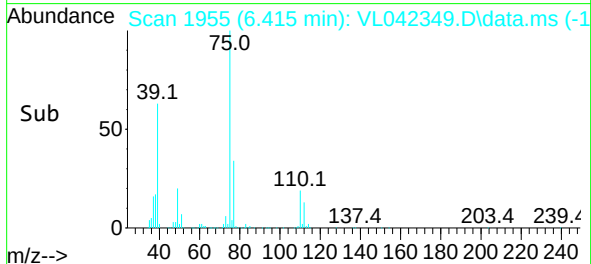
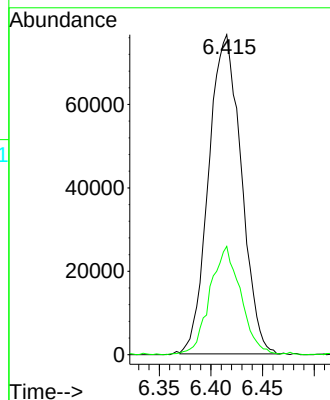
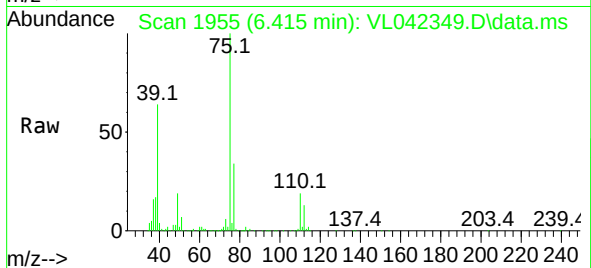
77 33.8 27.0 40.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#46

cis-1,3-Dichloropropene

Concen: 9.377 ppbv

RT: 5.600 min Scan# 1703

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

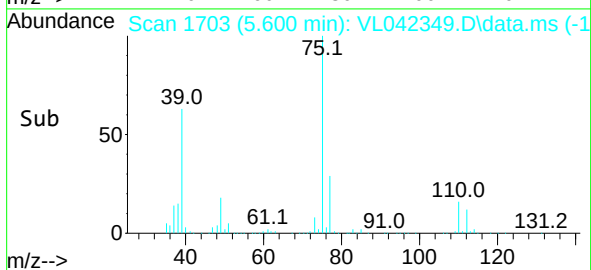
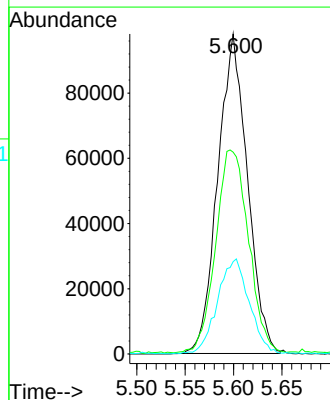
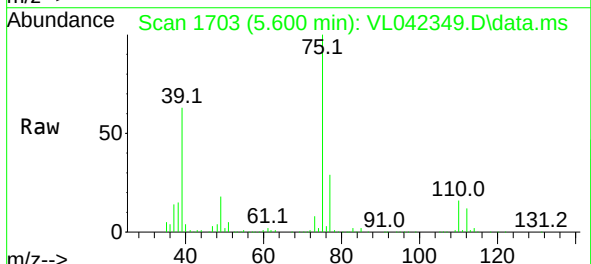
Tgt Ion: 75 Resp: 208811

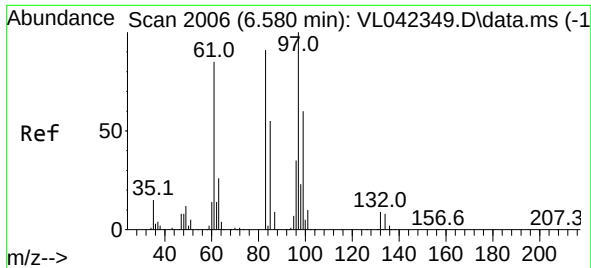
Ion Ratio Lower Upper

75 100

39 62.5 50.0 75.0

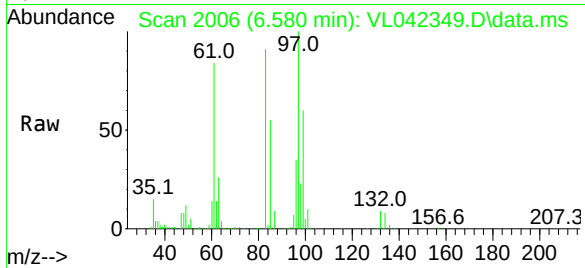
77 28.8 23.0 34.6





#47
1,1,2-Trichloroethane
Concen: 9.181 ppbv
RT: 6.580 min Scan# 2006
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

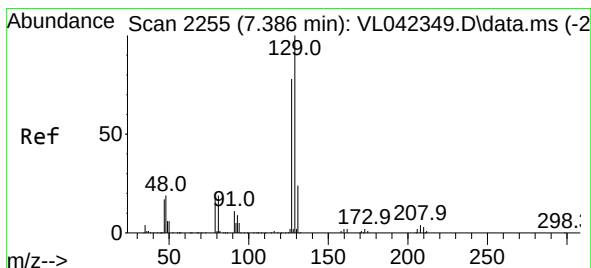
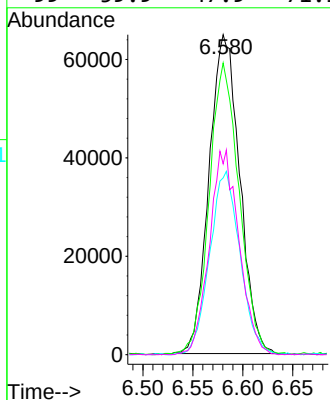
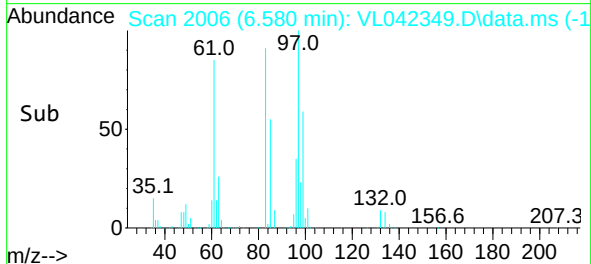
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



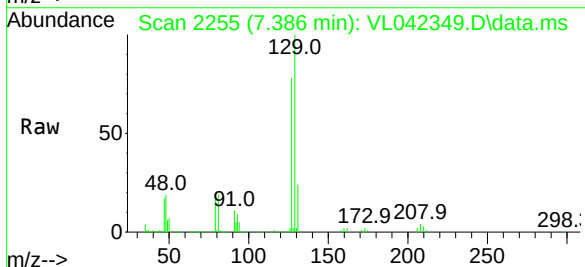
Tgt Ion: 97 Resp: 137898
Ion Ratio Lower Upper
97 100
83 91.0 72.8 109.2
85 55.3 44.2 66.4
99 59.9 47.9 71.9

Manual Integrations
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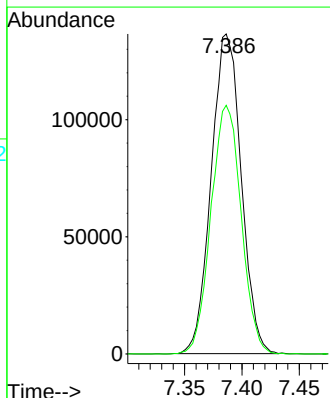
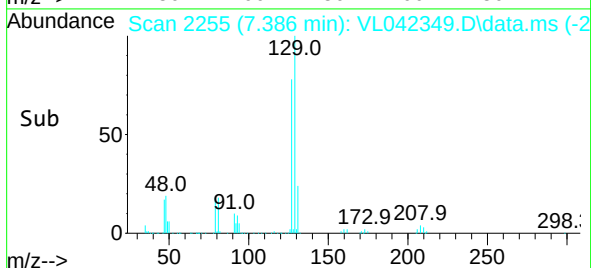
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

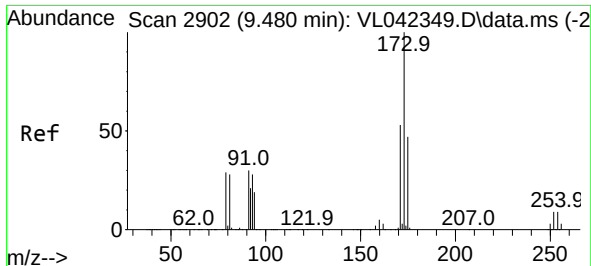


#48
Dibromochloromethane
Concen: 9.388 ppbv
RT: 7.386 min Scan# 2255
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



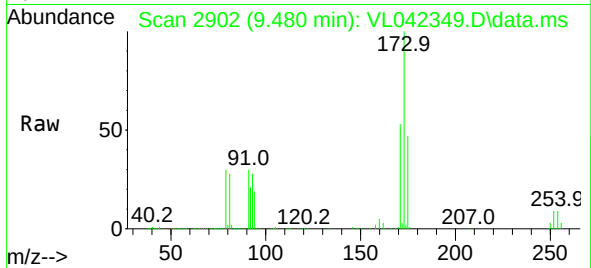
Tgt Ion:129 Resp: 248954
Ion Ratio Lower Upper
129 100
127 78.2 39.1 117.3





#49
Bromoform
Concen: 9.734 ppbv
RT: 9.480 min Scan# 2902
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

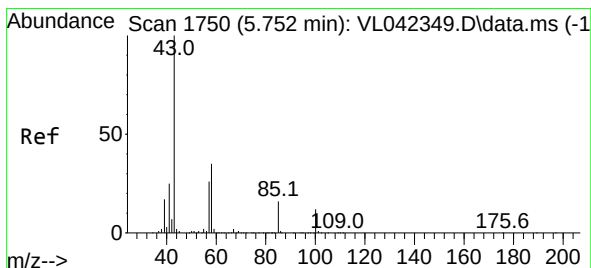
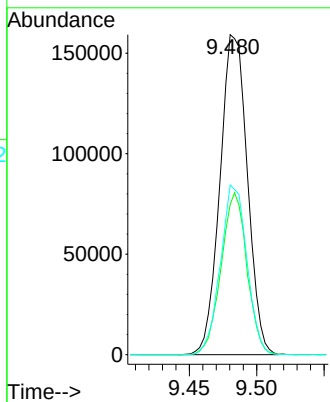
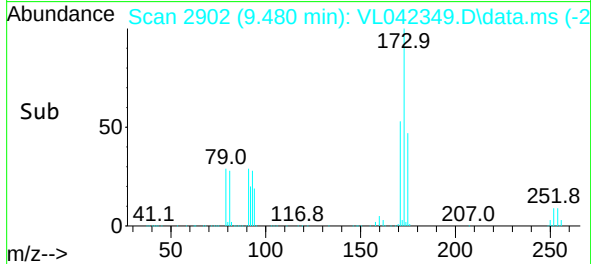
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion: 173 Resp: 225700
Ion Ratio Lower Upper
173 100
175 47.7 38.2 57.2
171 51.1 40.9 61.3

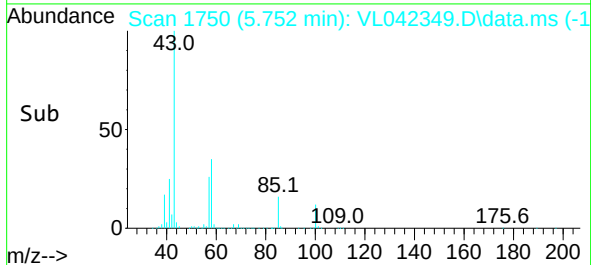
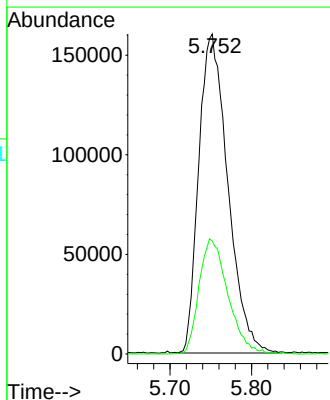
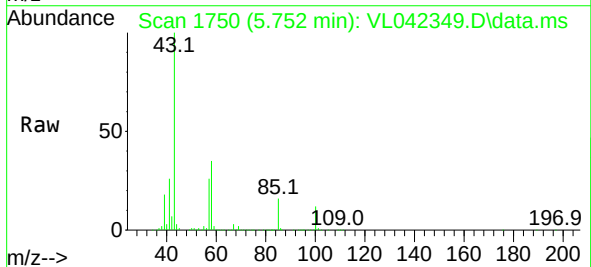
Manual Integrations
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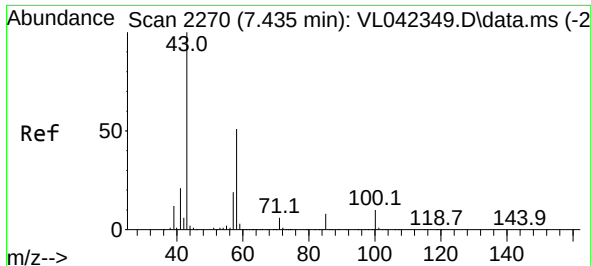
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#50
4-Methyl-2-Pentanone
Concen: 8.215 ppbv
RT: 5.752 min Scan# 1750
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

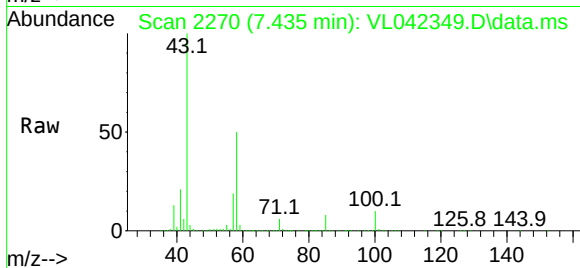
Tgt Ion: 43 Resp: 396548
Ion Ratio Lower Upper
43 100
58 35.8 28.6 43.0





#51
2-Hexanone
Concen: 7.511 ppbv
RT: 7.435 min Scan# 2270
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

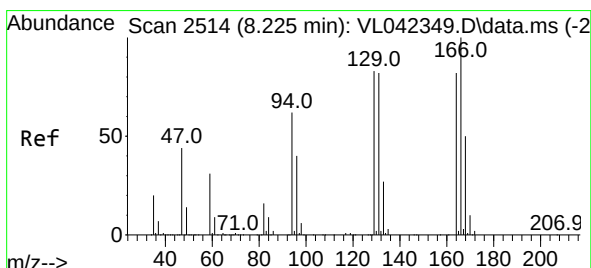
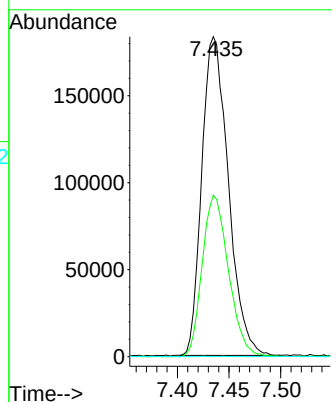
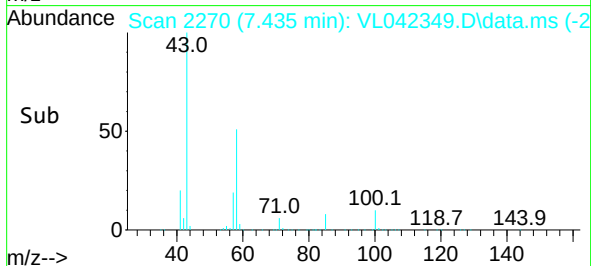
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



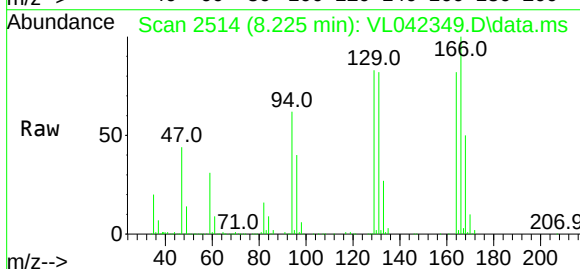
Tgt Ion: 43 Resp: 32716
Ion Ratio Lower Upper
43 100
58 50.3 40.2 60.4
98 0.1 0.1 0.1

Manual Integrations
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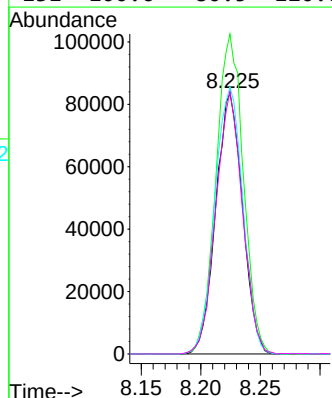
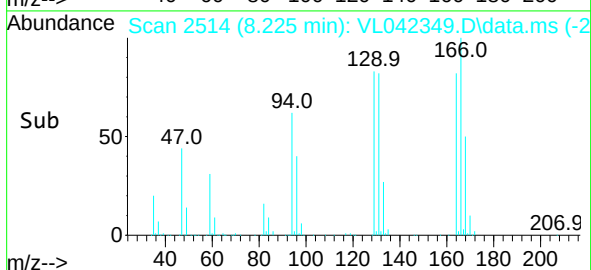
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

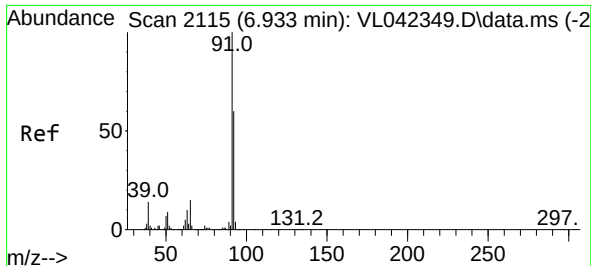


#52
Tetrachloroethene
Concen: 8.553 ppbv
RT: 8.225 min Scan# 2514
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



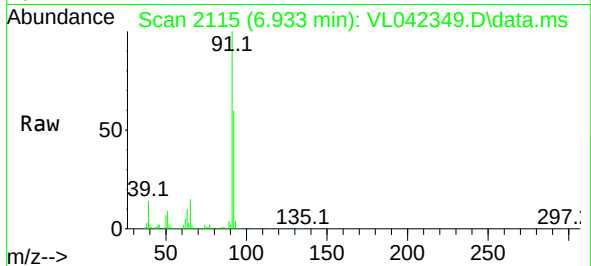
Tgt Ion:164 Resp: 130720
Ion Ratio Lower Upper
164 100
166 122.7 98.2 147.2
129 102.3 81.8 122.8
131 100.6 80.5 120.7





#53
Toluene
Concen: 9.216 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

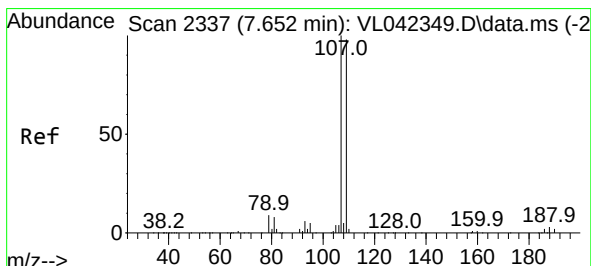
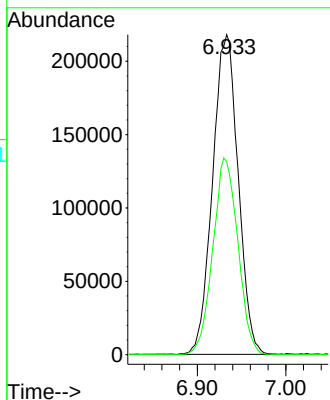
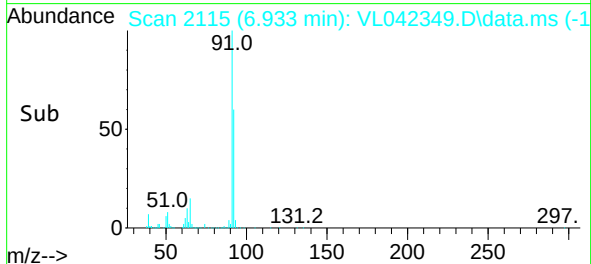
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



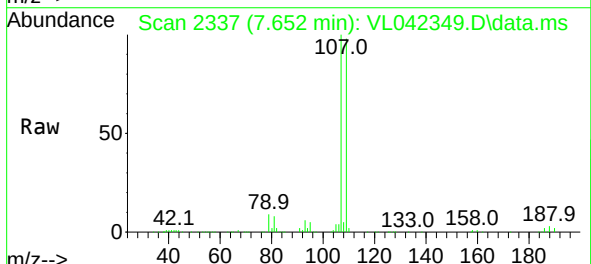
Tgt Ion: 91 Resp: 437258
Ion Ratio Lower Upper
91 100
92 60.3 48.2 72.4

Manual Integrations
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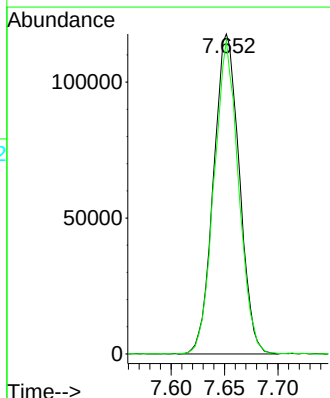
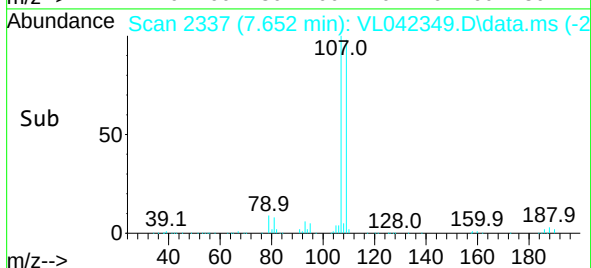
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

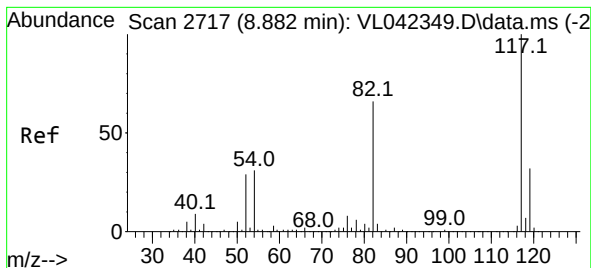


#54
1,2-Dibromoethane
Concen: 9.235 ppbv
RT: 7.652 min Scan# 2337
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



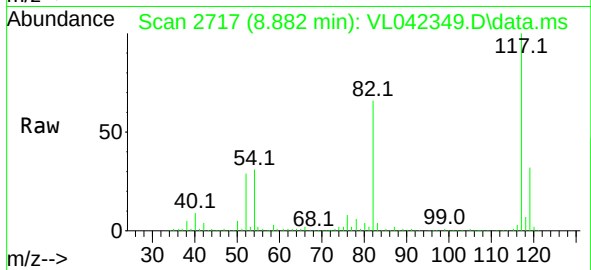
Tgt Ion:107 Resp: 197665
Ion Ratio Lower Upper
107 100
109 97.8 78.2 117.4





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2717
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

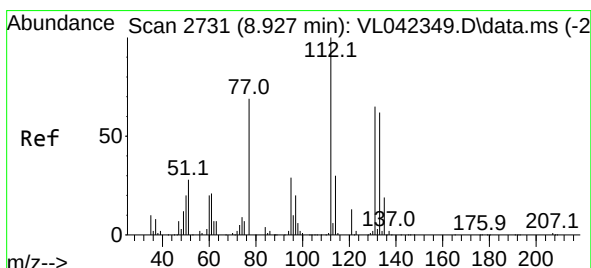
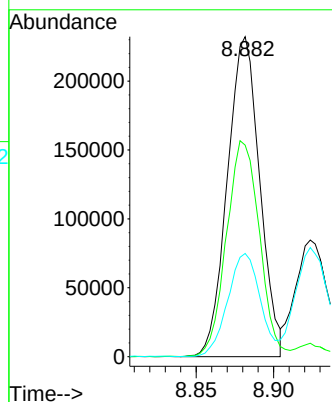
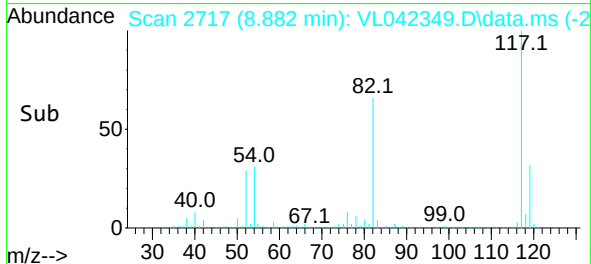
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion:117 Resp: 338120
Ion Ratio Lower Upper
117 100
82 72.2 57.8 86.6
119 31.5 25.2 37.8

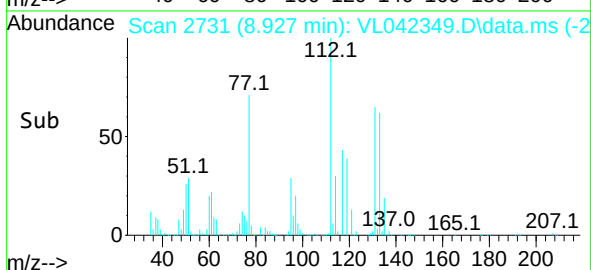
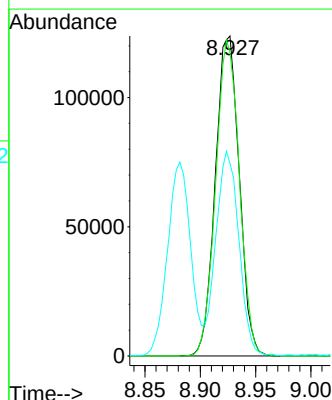
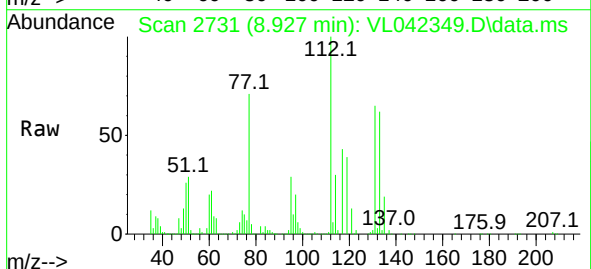
Manual Integrations
APPROVED

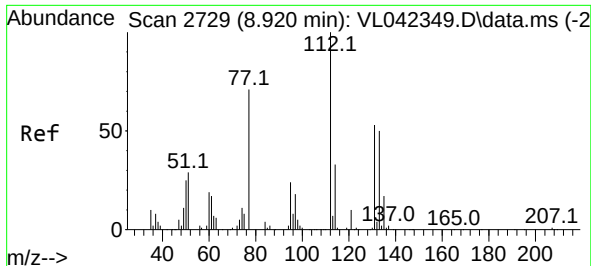
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#56
1,1,1,2-Tetrachloroethane
Concen: 9.091 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

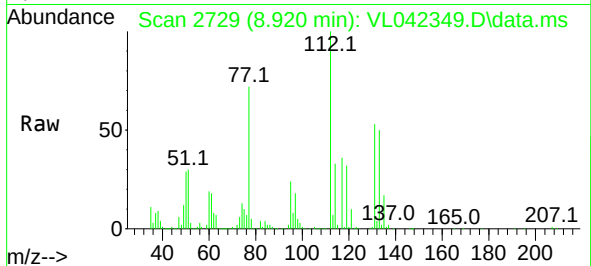
Tgt Ion:131 Resp: 186041
Ion Ratio Lower Upper
131 100
133 97.9 78.3 117.5
119 60.9 48.7 73.1





#57
Chlorobenzene
Concen: 9.187 ppbv
RT: 8.920 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

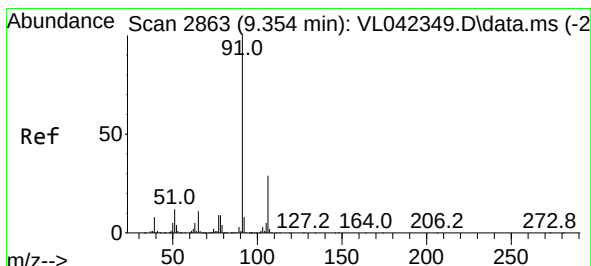
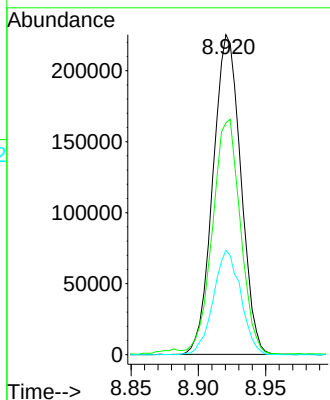
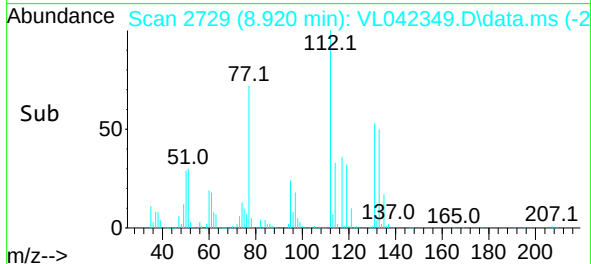
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion: 112 Resp: 323084
Ion Ratio Lower Upper
112 100
77 72.2 57.8 86.6
114 32.6 29.3 35.9

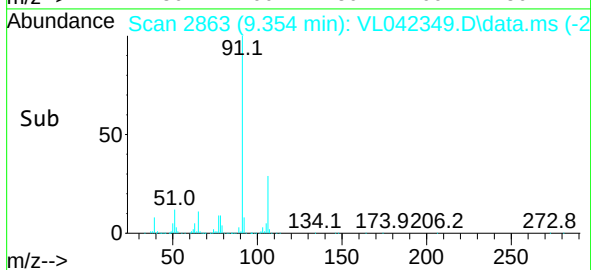
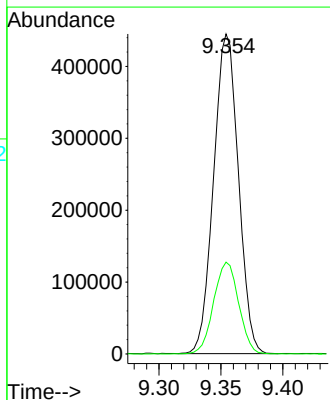
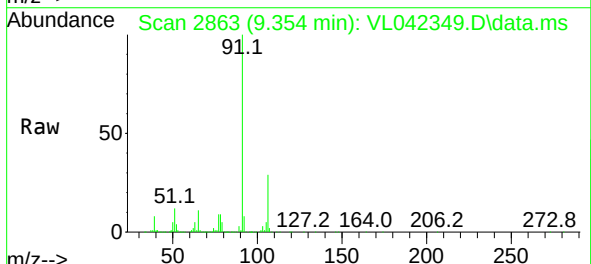
Manual Integrations
APPROVED

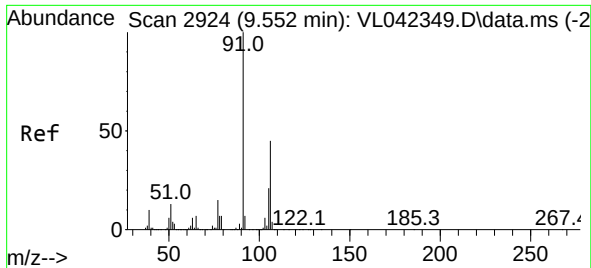
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#58
Ethyl Benzene
Concen: 9.248 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

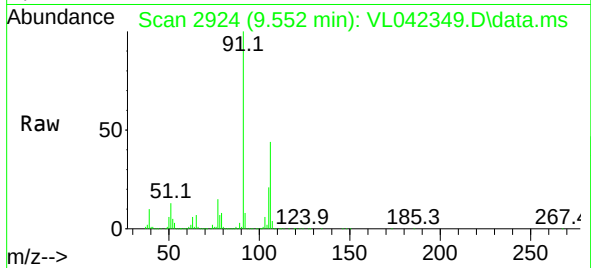
Tgt Ion: 91 Resp: 619581
Ion Ratio Lower Upper
91 100
106 28.7 23.0 34.4





#59
m/p-Xylene
Concen: 18.187 ppbv m
RT: 9.552 min Scan# 2924
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

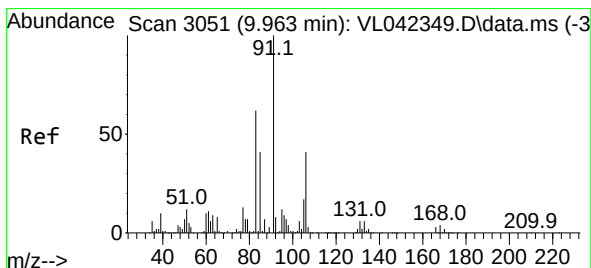
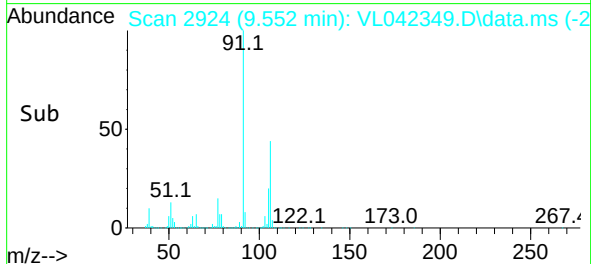
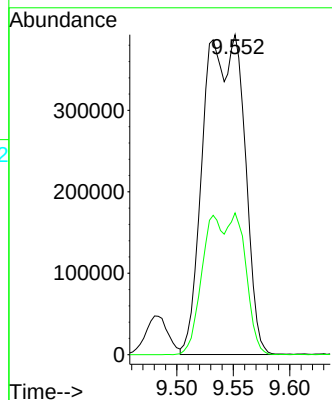
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion: 91 Resp: 984458
Ion Ratio Lower Upper
91 100
106 44.3 35.4 53.2

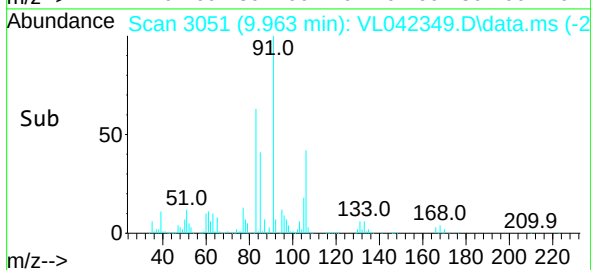
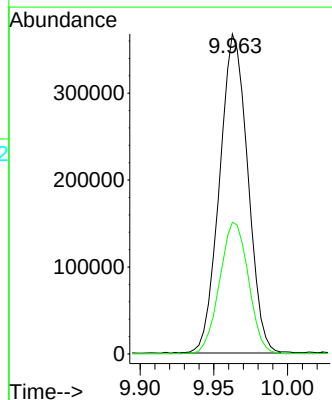
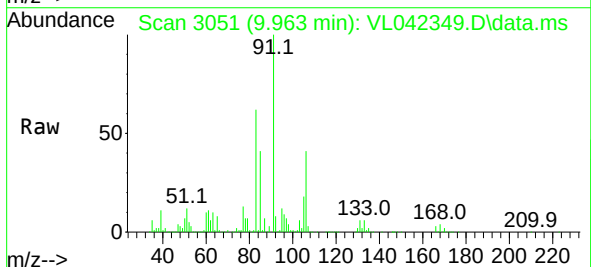
Manual Integrations
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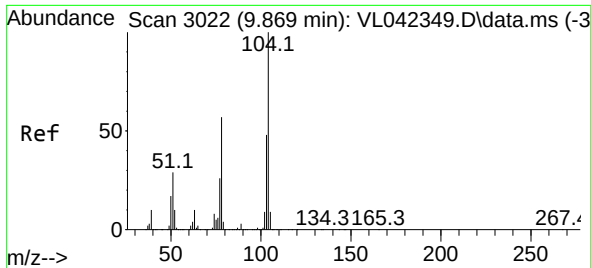
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#60
o-Xylene
Concen: 8.972 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 91 Resp: 487616
Ion Ratio Lower Upper
91 100
106 42.3 21.1 63.4





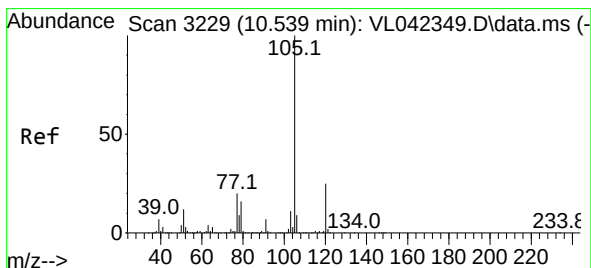
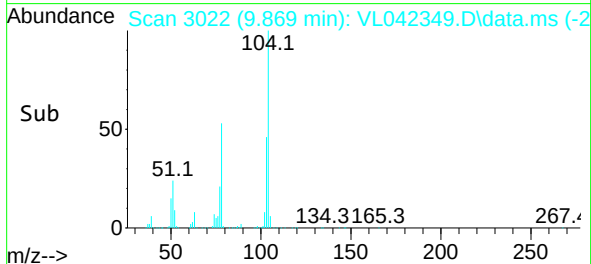
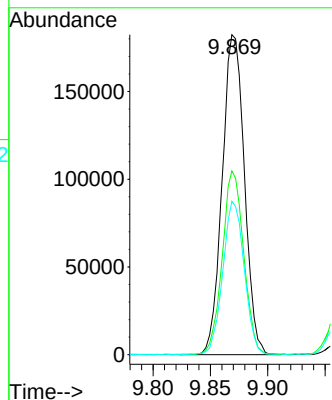
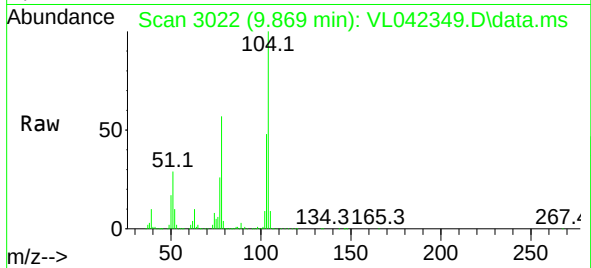
#61
Styrene
Concen: 9.464 ppbv
RT: 9.869 min Scan# 3022
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion:104 Resp: 24548
Ion Ratio Lower Upper
104 100
78 55.7 44.6 66.8
103 46.7 37.4 56.0

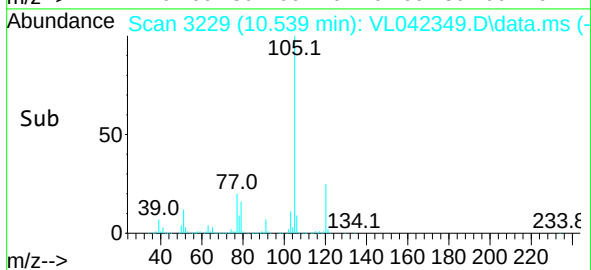
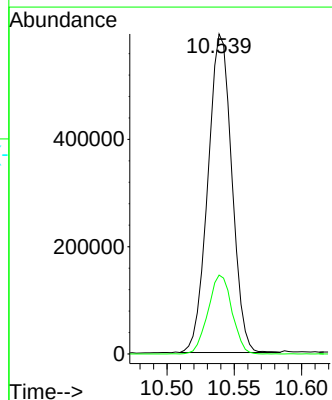
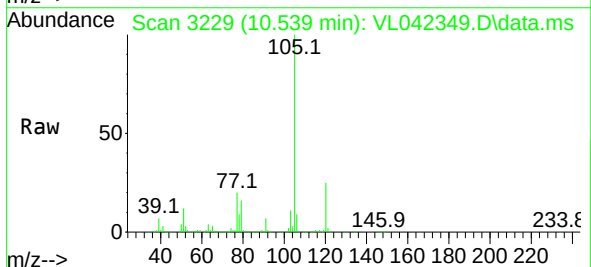
Manual Integrations
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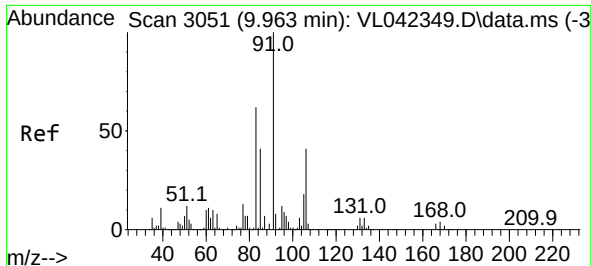
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#62
Isopropylbenzene
Concen: 9.197 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

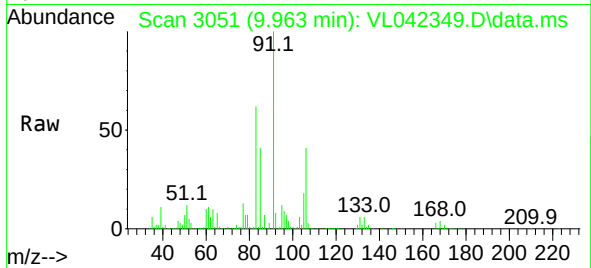
Tgt Ion:105 Resp: 733788
Ion Ratio Lower Upper
105 100
120 24.8 19.8 29.8





#63
1,1,2,2-Tetrachloroethane
Concen: 8.355 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

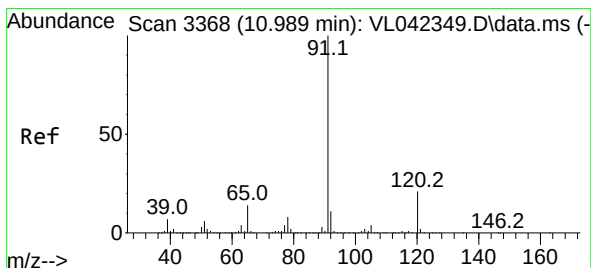
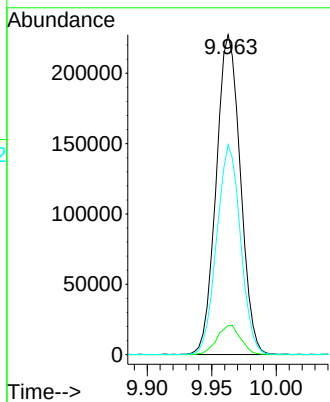
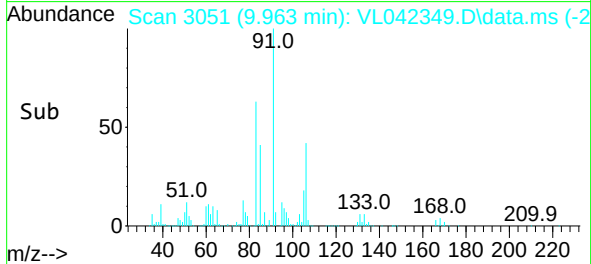
Instrument : MSVOA_1
ClientSampleId : VSTDICCC010



Tgt Ion: 83 Resp: 29504
Ion Ratio Lower Upper
83 100
131 9.1 4.5 13.7
85 64.7 32.4 97.0

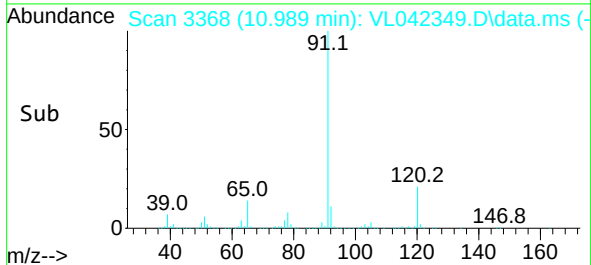
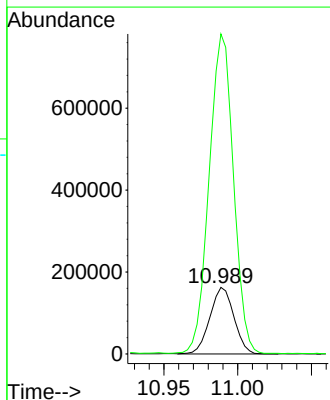
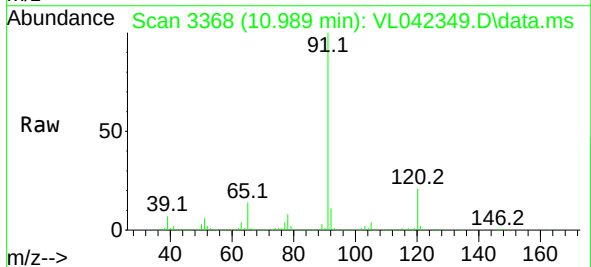
Manual Integrations
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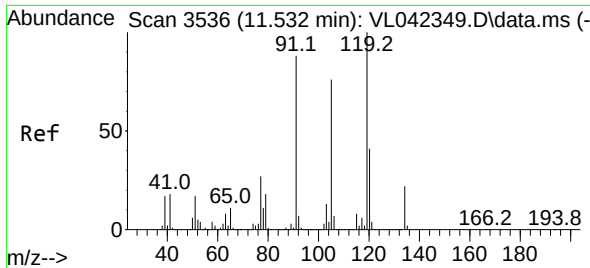
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#64
n-propylbenzene
Concen: 9.144 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

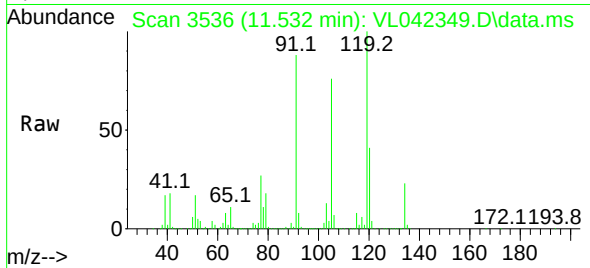
Tgt Ion:120 Resp: 183390
Ion Ratio Lower Upper
120 100
91 490.5 392.4 588.6





#65
tert-Butylbenzene
Concen: 8.795 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

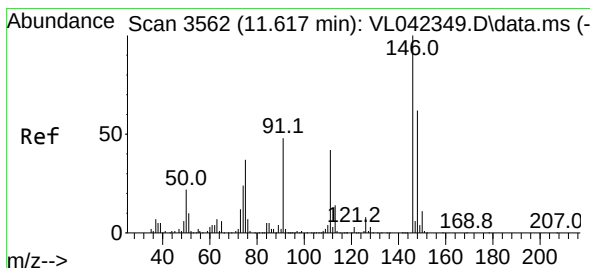
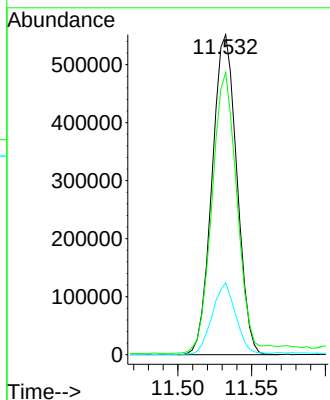
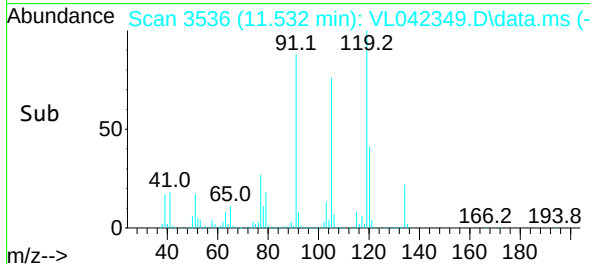
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



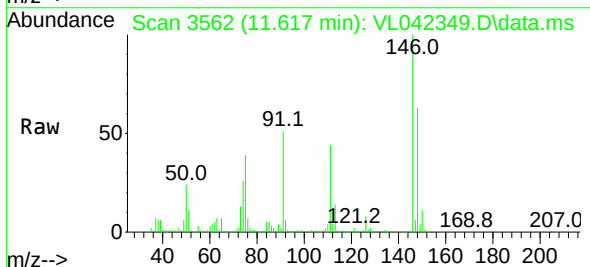
Tgt Ion: 119 Resp: 64495
Ion Ratio Lower Upper
119 100
91 93.2 74.6 111.8
134 23.5 18.8 28.2

Manual Integrations
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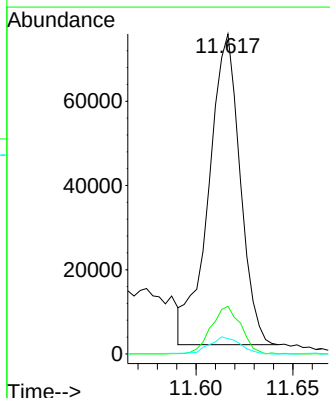
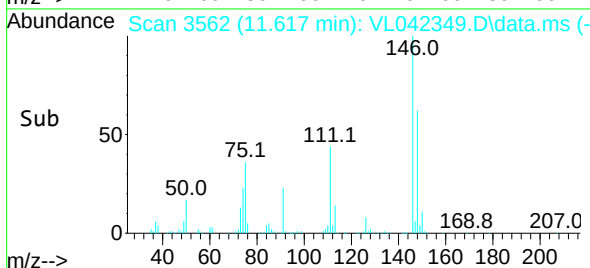
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

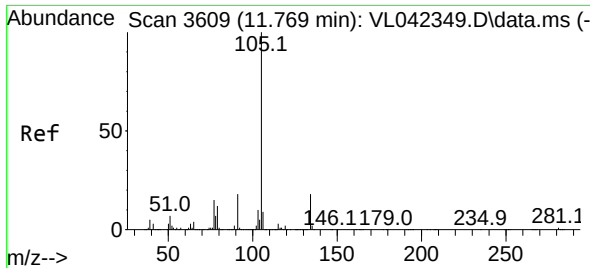


#66
Benzyl Chloride
Concen: 10.333 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



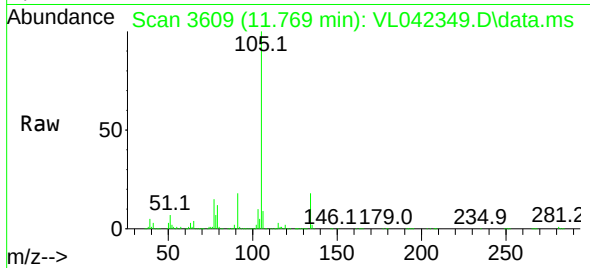
Tgt Ion: 91 Resp: 83269
Ion Ratio Lower Upper
91 100
126 14.7 11.8 17.6
128 5.6 4.5 6.7





#67
 sec-Butylbenzene
 Concen: 8.824 ppbv
 RT: 11.769 min Scan# 3609
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44

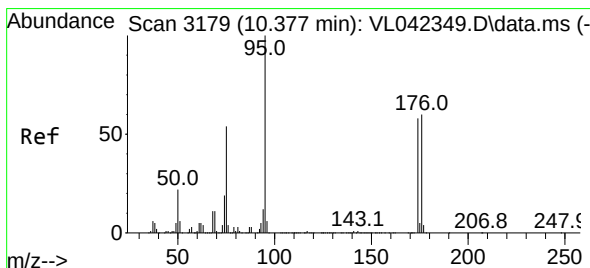
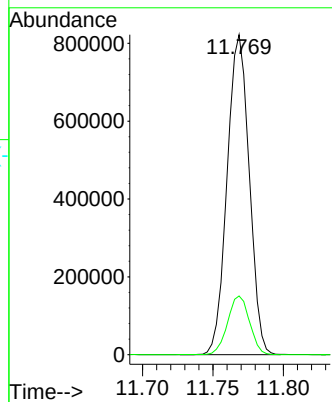
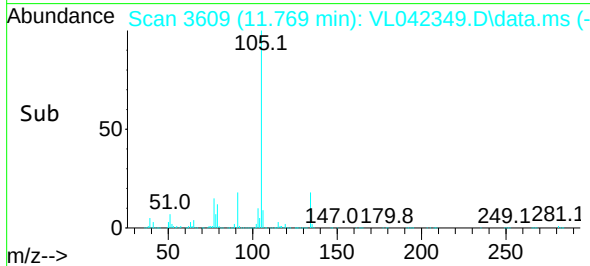
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



Tgt Ion:105 Resp: 900074
 Ion Ratio Lower Upper
 105 100
 134 18.2 14.6 21.8

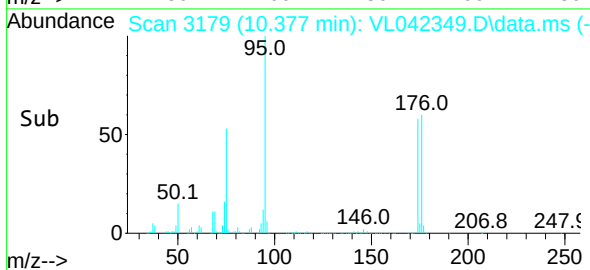
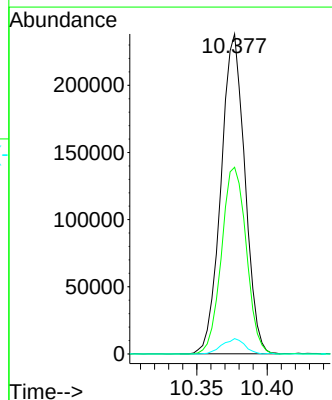
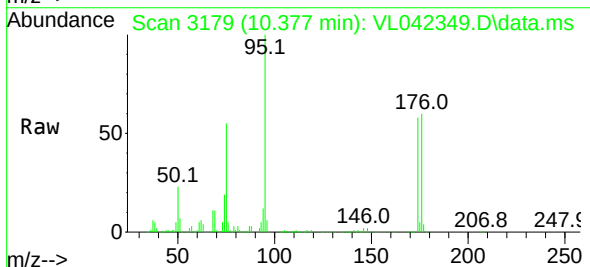
Manual Integrations
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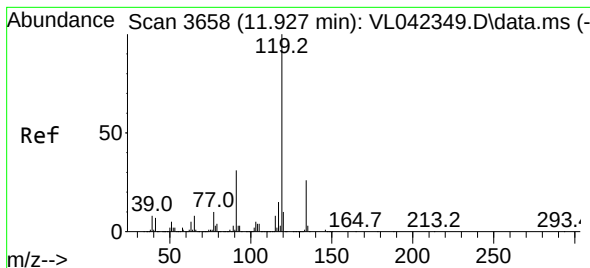
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.114 ppbv
 RT: 10.377 min Scan# 3179
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44

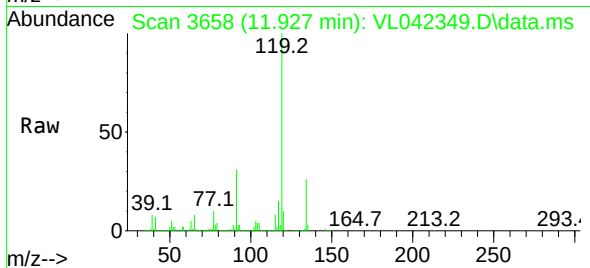
Tgt Ion: 95 Resp: 281013
 Ion Ratio Lower Upper
 95 100
 174 60.6 48.5 72.7
 175 4.6 3.7 5.5





#69
p-Isopropyltoluene
Concen: 8.790 ppbv
RT: 11.927 min Scan# 3658
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

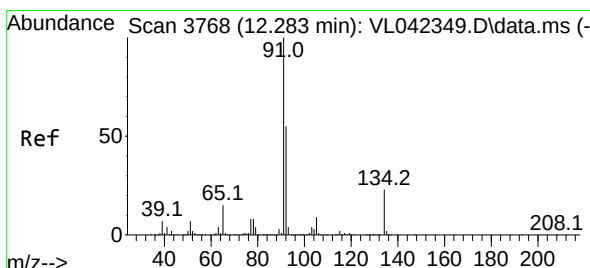
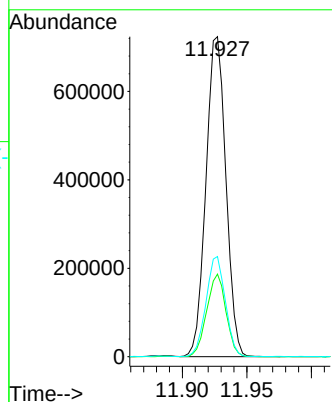
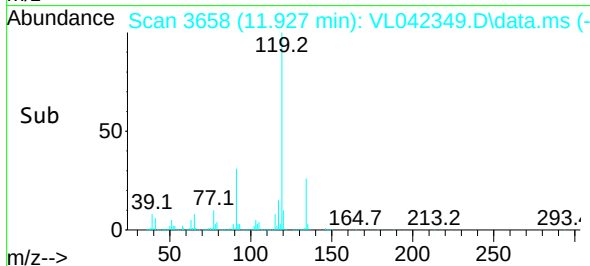
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



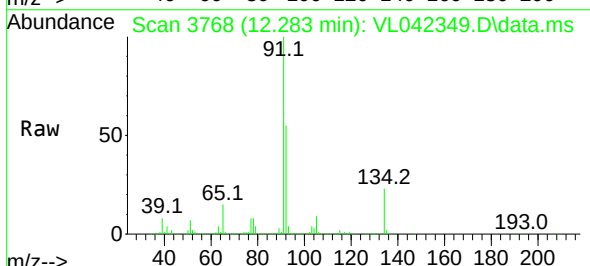
Tgt Ion:119 Resp: 77898
Ion Ratio Lower Upper
119 100
134 25.0 20.0 30.0
91 30.5 24.4 36.6

Manual Integrations
APPROVED

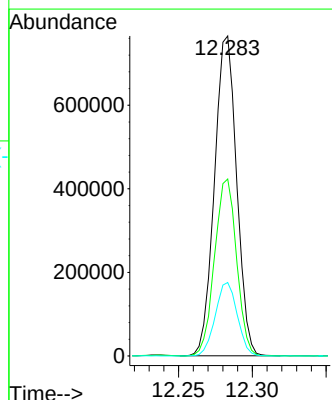
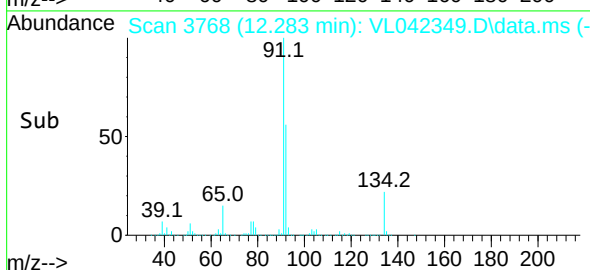
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

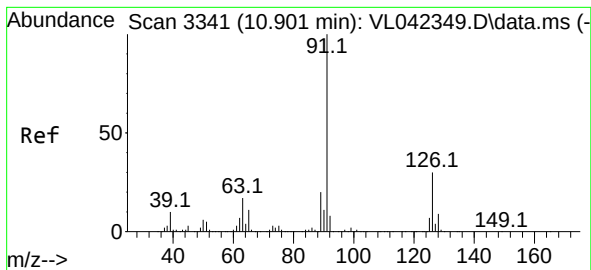


#70
n-Butylbenzene
Concen: 8.682 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



Tgt Ion: 91 Resp: 801364
Ion Ratio Lower Upper
91 100
92 55.3 44.2 66.4
134 22.8 18.2 27.4





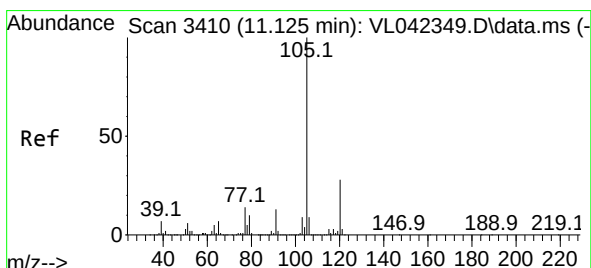
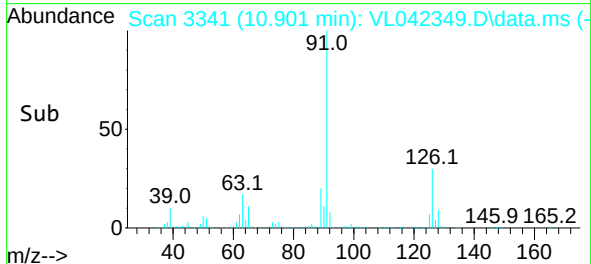
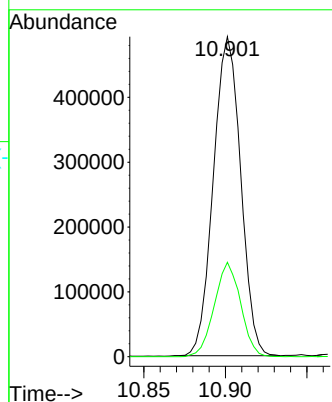
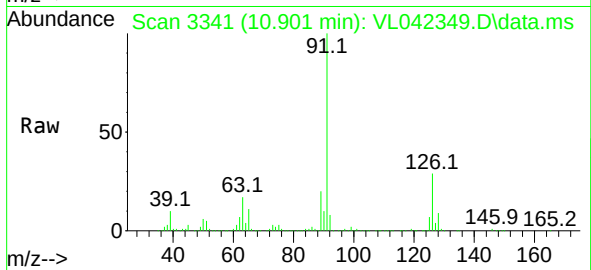
#71
2-Chlorotoluene
Concen: 9.157 ppbv
RT: 10.901 min Scan# 3341
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 91 Resp: 573039
Ion Ratio Lower Upper
91 100
126 28.4 11.4 45.4

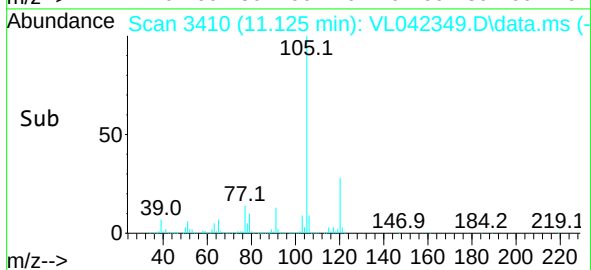
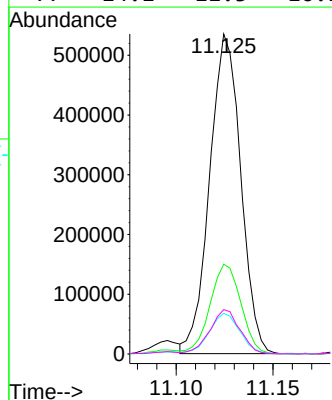
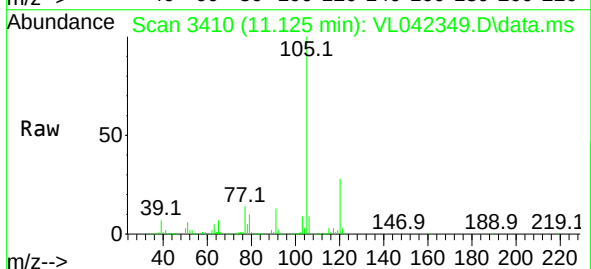
Manual Integrations
APPROVED

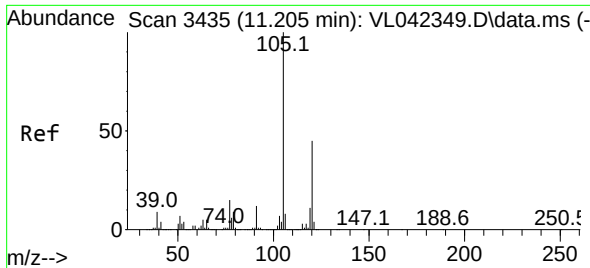
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#72
4-Ethyltoluene
Concen: 8.982 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

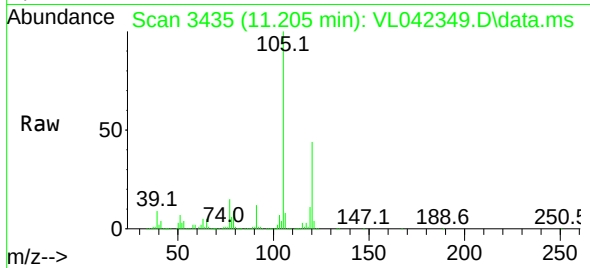
Tgt Ion:105 Resp: 596757
Ion Ratio Lower Upper
105 100
120 29.0 23.2 34.8
91 13.0 10.4 15.6
77 14.1 11.3 16.9





#73
1,3,5-Trimethylbenzene
Concen: 8.743 ppbv
RT: 11.205 min Scan# 3435
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

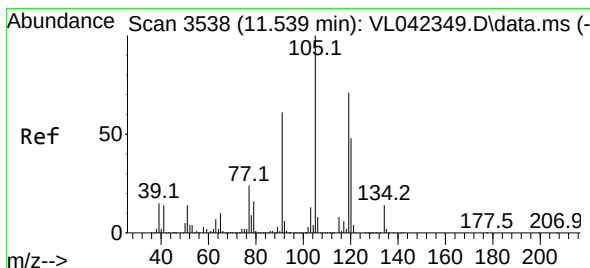
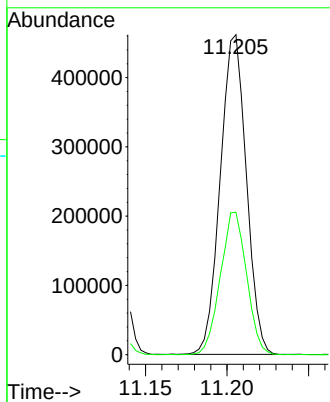
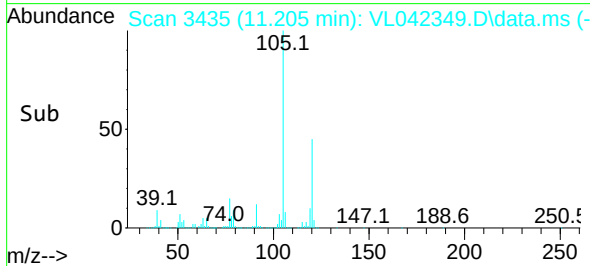
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



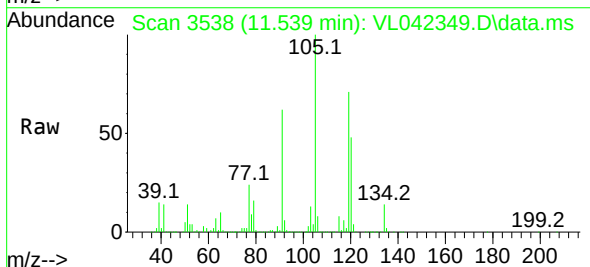
Tgt Ion:105 Resp: 51285
Ion Ratio Lower Upper
105 100
120 44.5 35.6 53.4

Manual Integrations
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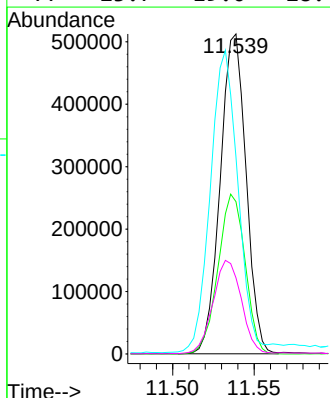
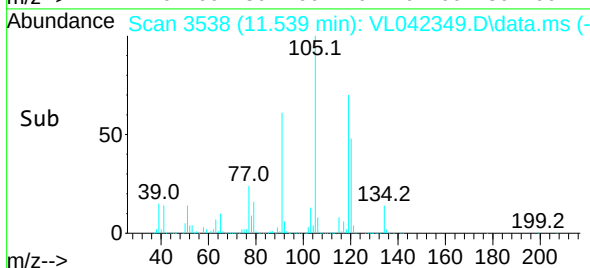
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

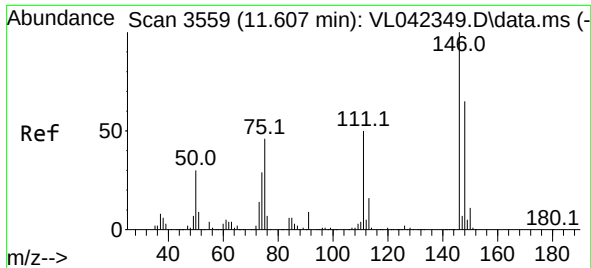


#74
1,2,4-Trimethylbenzene
Concen: 8.248 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



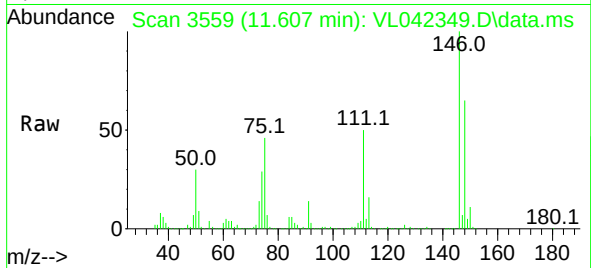
Tgt Ion:105 Resp: 565064
Ion Ratio Lower Upper
105 100
120 47.6 38.1 57.1
91 61.0 48.8 73.2
77 23.7 19.0 28.4





#75
1,3-Dichlorobenzene
Concen: 8.997 ppbv
RT: 11.607 min Scan# 3559
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

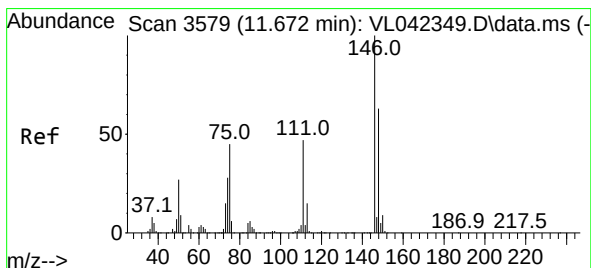
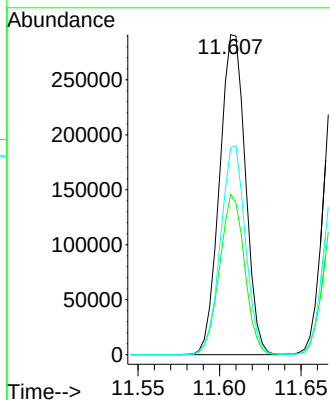
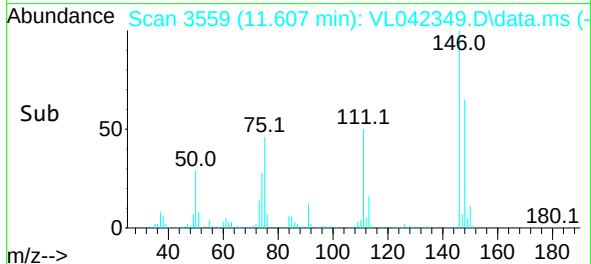
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



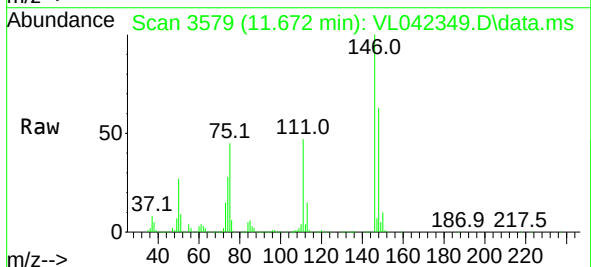
Tgt Ion:146 Resp: 320380
Ion Ratio Lower Upper
146 100
111 48.5 24.3 72.8
148 63.2 31.6 94.8

Manual Integrations
APPROVED

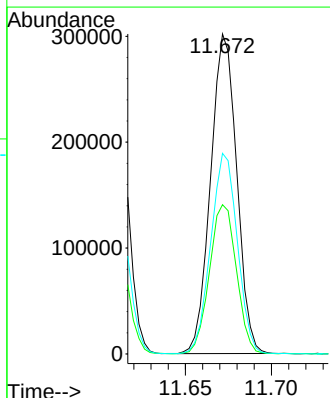
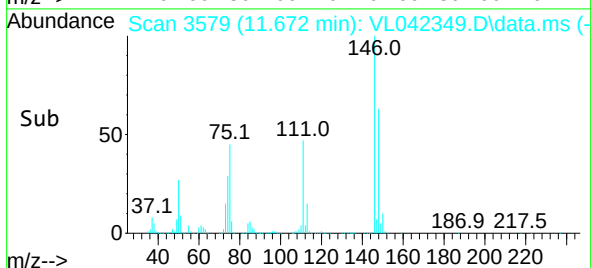
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

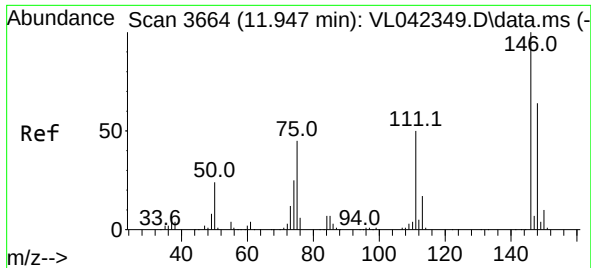


#76
1,4-Dichlorobenzene
Concen: 8.915 ppbv
RT: 11.672 min Scan# 3579
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



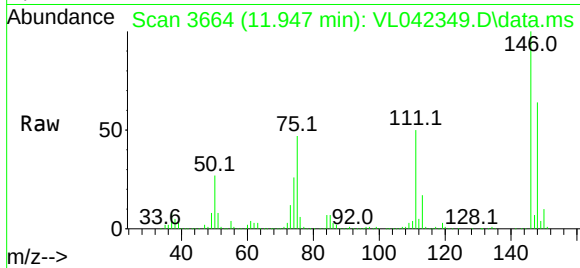
Tgt Ion:146 Resp: 319089
Ion Ratio Lower Upper
146 100
111 48.4 24.2 72.6
148 64.3 32.1 96.5





#77
1,2-Dichlorobenzene
Concen: 8.832 ppbv
RT: 11.947 min Scan# 30582
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

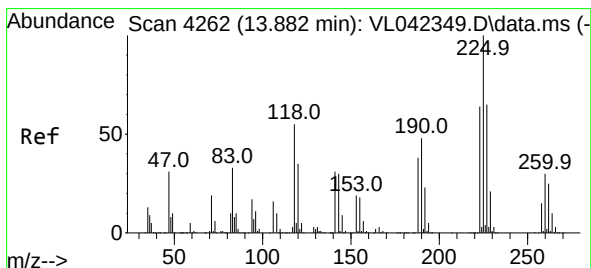
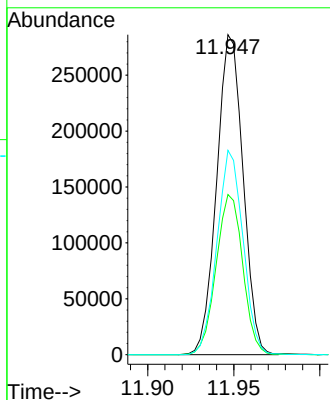
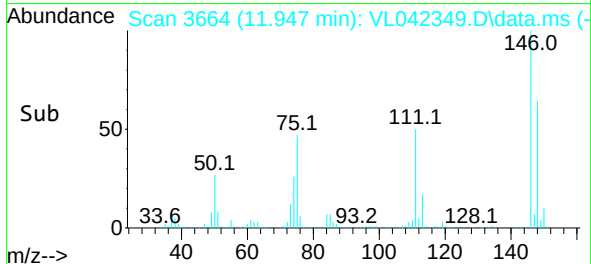
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



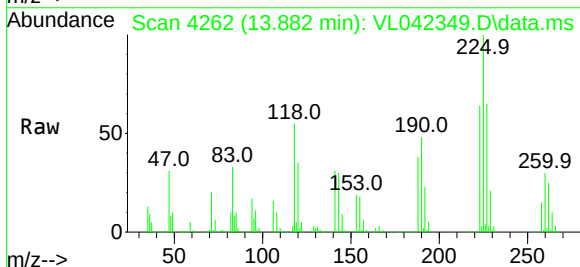
Tgt Ion:146 Resp: 30582
Ion Ratio Lower Upper
146 100
111 50.6 25.3 75.9
148 63.0 31.5 94.5

Manual Integrations
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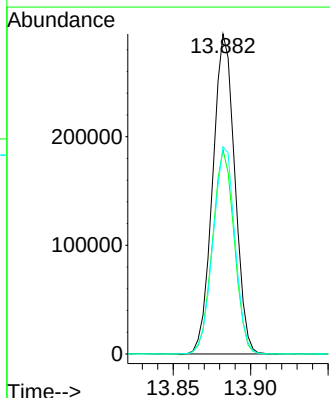
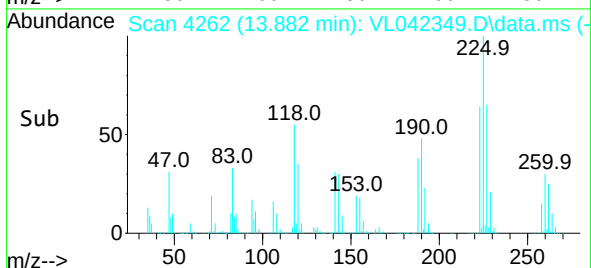
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

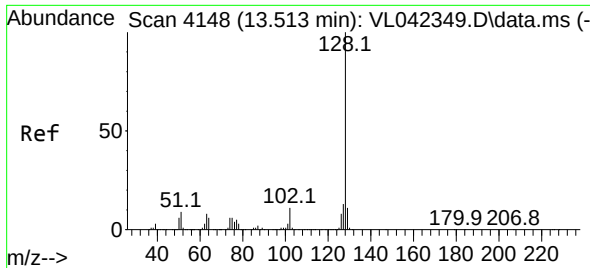


#78
Hexachloro-1,3-Butadiene
Concen: 8.346 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



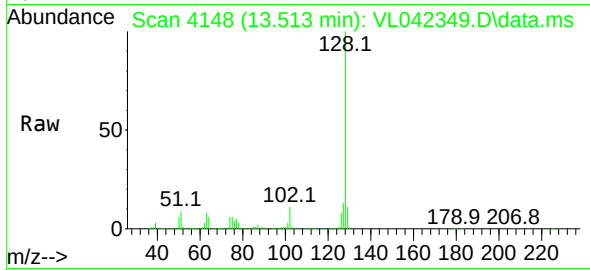
Tgt Ion:225 Resp: 291833
Ion Ratio Lower Upper
225 100
223 62.9 50.3 75.5
227 64.4 51.5 77.3





#79
Naphthalene
Concen: 8.271 ppbv
RT: 13.513 min Scan# 4148
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

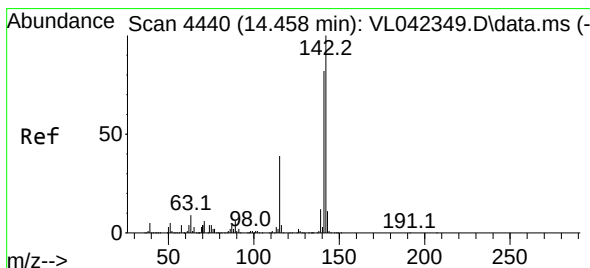
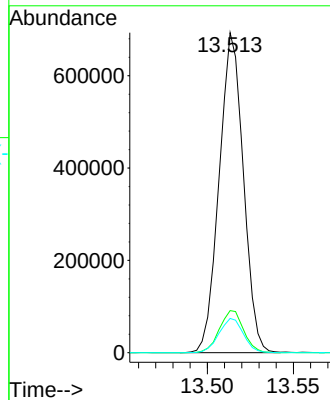
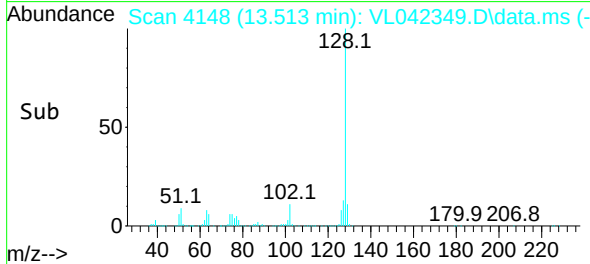
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion:128 Resp: 677578
Ion Ratio Lower Upper
128 100
127 13.2 10.6 15.8
129 10.7 8.6 12.8

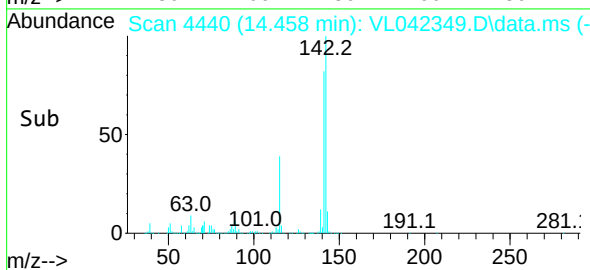
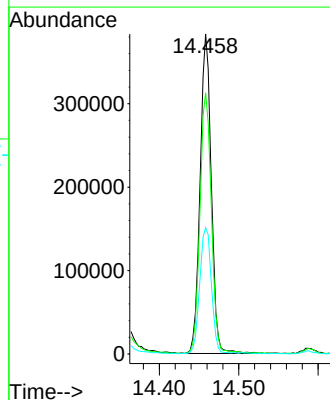
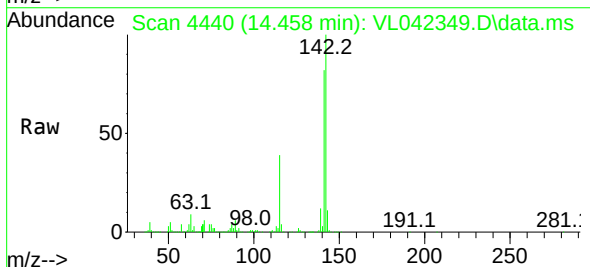
Manual Integrations
APPROVED

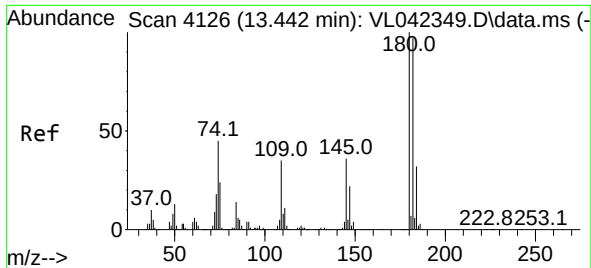
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#80
Naphthalene,2-methyl-
Concen: 8.074 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:142 Resp: 376995
Ion Ratio Lower Upper
142 100
141 83.5 66.8 100.2
115 41.8 33.4 50.2





#81

1,2,4-Trichlorobenzene

Concen: 8.702 ppbv

RT: 13.442 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL042349.D

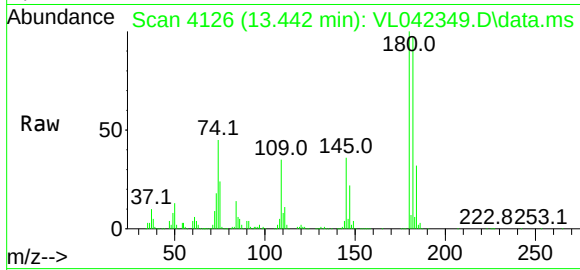
Acq: 17 Apr 2025 09:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010



Tgt Ion:180 Resp: 306119

Ion Ratio Lower Upper

180 100

182 96.0 76.8 115.2

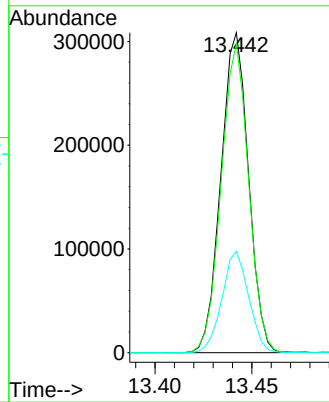
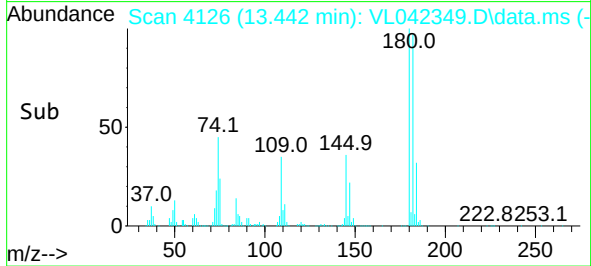
184 30.7 24.6 36.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042350.D
 Acq On : 17 Apr 2025 10:17
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Quant Time: Apr 18 01:26:23 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025
 QLast Update : Fri Apr 18 01:24:29 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 04/18/2025
 Supervised By : Mahesh Dadoda 04/18/2025

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

Internal Standards						
1) Bromochloromethane	2.787	49	123206	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	355918	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.881	117	335603	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.377	95	275715	9.998	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.000%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	45008	2.068	ppbv	95
3) Chlorodifluoromethane	1.476	51	41853	2.019	ppbv	97
4) Chloromethane	1.534	50	17272	2.005	ppbv	93
5) Vinyl Chloride	1.580	62	16979	1.811	ppbv	92
6) Bromomethane	1.667	94	7398	1.821	ppbv #	80
7) Chloroethane	1.706	64	6889	2.031	ppbv	98
8) Dichlorotetrafluoroethane	1.554	85	38955	2.084	ppbv	98
9) Propene	1.483	41	18671	1.978	ppbv	97
10) Heptane	4.978	43	54438m	2.143	ppbv	
11) Trichlorofluoromethane	1.877	101	43035	2.079	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.140	101	35415	2.092	ppbv	100
13) Ethanol	1.722	45	3034m	3.933	ppbv	
14) Bromoethene	1.780	108	13049	2.045	ppbv #	92
15) Acetone	1.835	43	42949	2.129	ppbv	93
16) 1,3-Butadiene	1.609	39	18110	1.912	ppbv	96
17) tert-Butyl alcohol	2.042	59	51829	2.074	ppbv #	94
18) 1,1-Dichloroethene	2.036	96	15690	1.928	ppbv	87
19) Isopropyl Alcohol	1.887	45	22106	1.973	ppbv #	38
20) Methylene Chloride	2.062	84	14329	1.814	ppbv #	82
21) Allyl Chloride	2.098	41	27340	1.963	ppbv	95
22) trans-1,2-Dichloroethene	2.340	96	18142	2.015	ppbv	97
23) Vinyl Acetate	2.463	43	18454	2.260	ppbv #	91
24) 1,1-Dichloroethane	2.411	63	34077	1.993	ppbv	96
25) Ethyl Acetate	2.835	43	101467	2.040	ppbv	99
26) Hexane	2.826	57	40046	1.990	ppbv	99
27) Carbon Disulfide	2.149	76	43975	2.041	ppbv #	64
28) Methyl tert-Butyl Ether	2.441	73	27905	2.116	ppbv	97
29) Chloroform	2.848	83	58946	2.072	ppbv	100
30) Cyclohexane	3.858	84	33195	2.048	ppbv	94
31) cis-1,2-Dichloroethene	2.722	61	39249	2.051	ppbv	98
32) 1,1,1-Trichloroethane	3.366	97	61442	2.014	ppbv	99
34) 2-Butanone	2.560	43	58249	2.069	ppbv	100
35) Carbon Tetrachloride	3.761	117	60291	1.872	ppbv	88
36) Benzene	3.658	78	79814	2.079	ppbv	98
37) 1,2-Dichloroethane	3.217	62	47398	2.057	ppbv	100
38) Trichloroethene	4.544	130	31826m	1.891	ppbv	
39) 1,2-Dichloropropane	4.315	63	28806	2.012	ppbv	96
40) 1,4-Dioxane	4.593	88	16536m	2.133	ppbv	
41) Tetrahydrofuran	3.059	42	33298	2.047	ppbv	98
42) Bromodichloromethane	4.489	83	64941	2.025	ppbv	97
43) Methyl Methacrylate	4.881	69	35256	2.046	ppbv	97
44) 2,2,4-Trimethylpentane	4.645	57	139641	2.103	ppbv	99
45) t-1,3-Dichloropropene	6.415	75	36265	2.050	ppbv	94

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042350.D
 Acq On : 17 Apr 2025 10:17
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 01:26:23 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

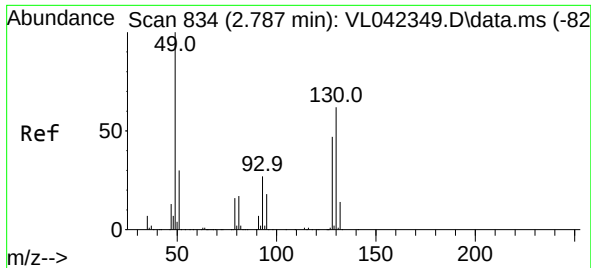
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Fri Apr 18 01:24:29 2025

Response via : Initial Calibration

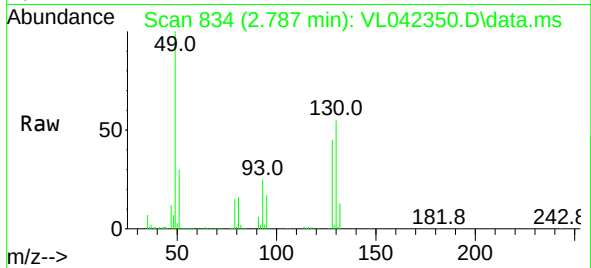
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.600	75	45327m	2.096	ppbv	
47) 1,1,2-Trichloroethane	6.590	97	29879	2.049	ppbv	88
48) Dibromochloromethane	7.389	129	53069	2.061	ppbv	100
49) Bromoform	9.483	173	48069	2.135	ppbv	97
50) 4-Methyl-2-Pentanone	5.758	43	102182	2.180	ppbv	99
51) 2-Hexanone	7.441	43	100443	2.375	ppbv	98
52) Tetrachloroethene	8.228	164	27854	1.877	ppbv	96
53) Toluene	6.933	91	97493	2.116	ppbv	98
54) 1,2-Dibromoethane	7.655	107	43153	2.076	ppbv	87
56) 1,1,1,2-Tetrachloroethane	8.924	131	42601	2.097	ppbv	95
57) Chlorobenzene	8.924	112	71685	2.054	ppbv	98
58) Ethyl Benzene	9.357	91	138810	2.088	ppbv	98
59) m/p-Xylene	9.532	91	222542m	4.142	ppbv	
60) o-Xylene	9.963	91	111972	2.076	ppbv	98
61) Styrene	9.872	104	54229	2.106	ppbv	98
62) Isopropylbenzene	10.539	105	163716	2.067	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.963	83	64952	1.853	ppbv	99
64) n-propylbenzene	10.989	120	40956	2.058	ppbv	96
65) tert-Butylbenzene	11.532	119	155401	2.135	ppbv	92
66) Benzyl Chloride	11.616	91	17300	2.163	ppbv	98
67) sec-Butylbenzene	11.769	105	218327	2.156	ppbv	100
69) p-Isopropyltoluene	11.927	119	188657	2.145	ppbv	99
70) n-Butylbenzene	12.283	91	198221	2.164	ppbv	99
71) 2-Chlorotoluene	10.901	91	128858	2.075	ppbv	98
72) 4-Ethyltoluene	11.124	105	137872	2.091	ppbv	97
73) 1,3,5-Trimethylbenzene	11.205	105	123580	2.123	ppbv	98
74) 1,2,4-Trimethylbenzene	11.539	105	145510	2.140	ppbv	92
75) 1,3-Dichlorobenzene	11.607	146	75082	2.124	ppbv	98
76) 1,4-Dichlorobenzene	11.671	146	75323	2.120	ppbv	99
77) 1,2-Dichlorobenzene	11.947	146	74786	2.176	ppbv	98
78) Hexachloro-1,3-Butadiene	13.882	225	76158	2.194	ppbv	100
79) Naphthalene	13.513	128	195233	2.401	ppbv	99
80) Naphthalene,2-methyl-	14.458	142	119262	2.574	ppbv	99
81) 1,2,4-Trichlorobenzene	13.442	180	82156	2.353	ppbv	99

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 834
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

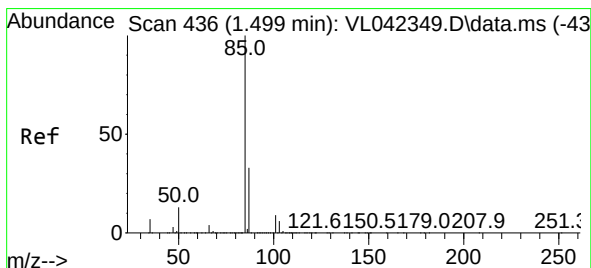
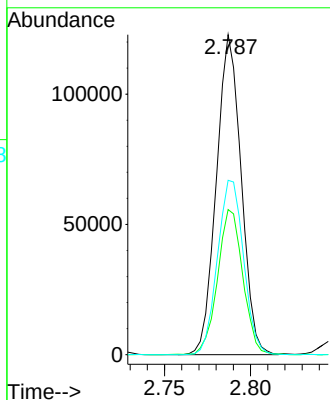
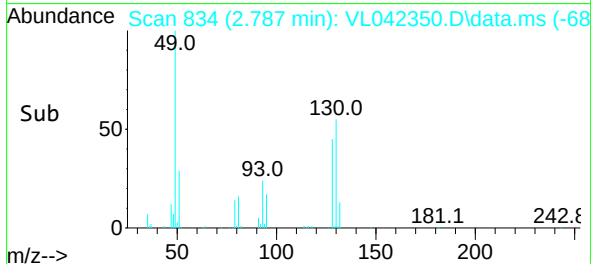
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



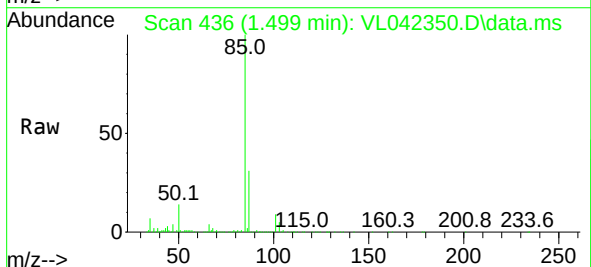
Tgt Ion: 49 Resp: 123200
Ion Ratio Lower Upper
49 100
128 46.2 22.8 68.4
130 57.3 29.3 88.0

Manual Integrations
APPROVED

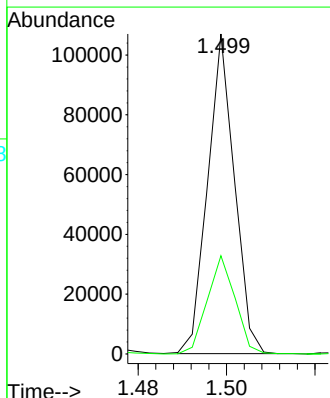
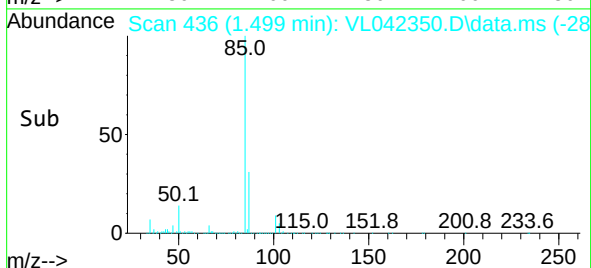
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

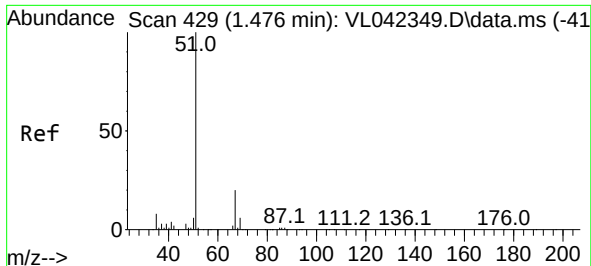


#2
Dichlorodifluoromethane
Concen: 2.068 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17



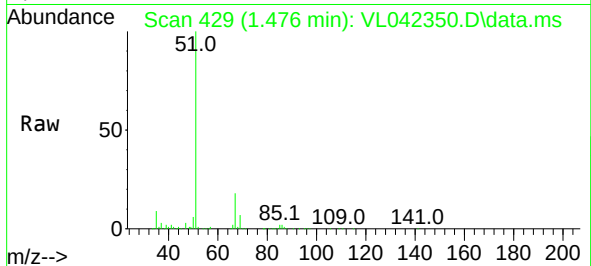
Tgt Ion: 85 Resp: 45008
Ion Ratio Lower Upper
85 100
87 30.6 26.6 39.8





#3
Chlorodifluoromethane
Concen: 2.019 ppbv
RT: 1.476 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

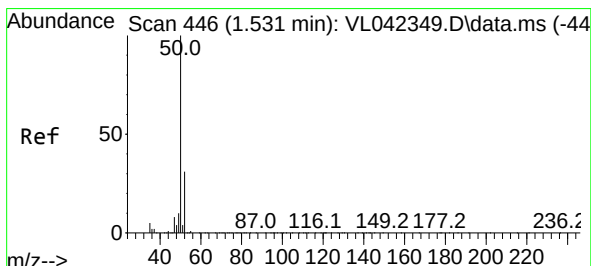
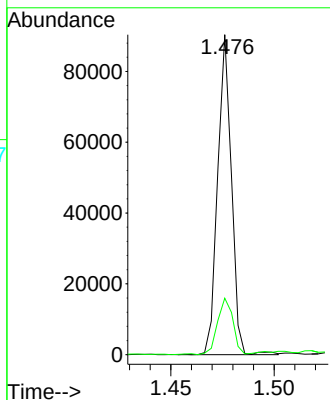
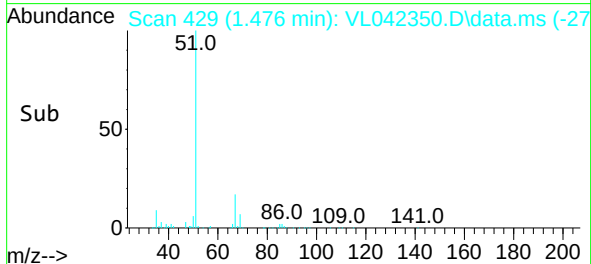
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



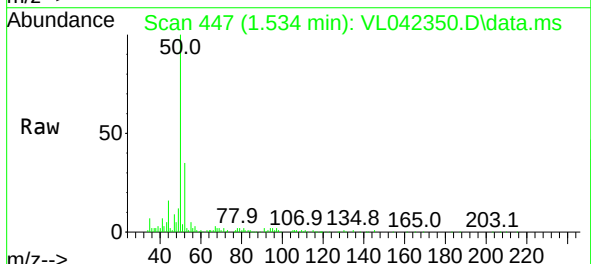
Tgt Ion: 51 Resp: 4185
Ion Ratio Lower Upper
51 100
67 21.7 16.2 24.4

Manual Integrations
APPROVED

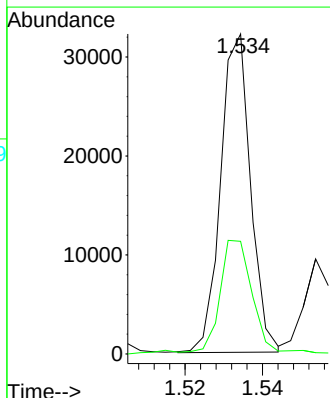
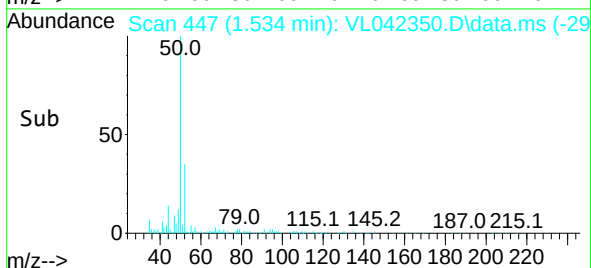
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

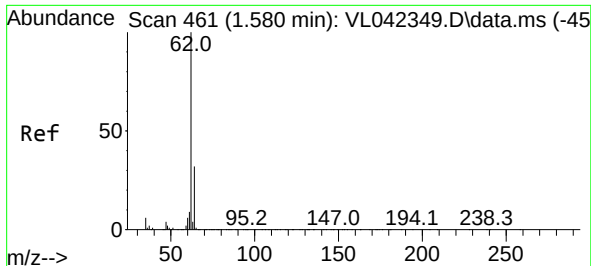


#4
Chloromethane
Concen: 2.005 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17



Tgt Ion: 50 Resp: 17272
Ion Ratio Lower Upper
50 100
52 34.9 24.7 37.1





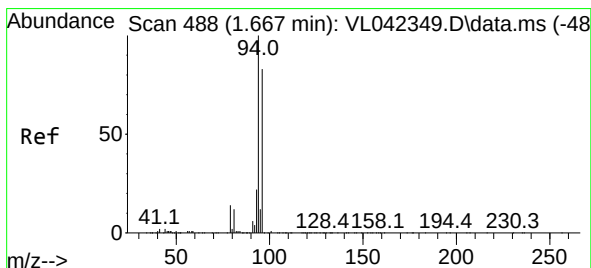
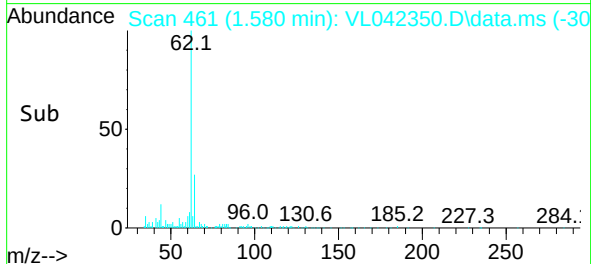
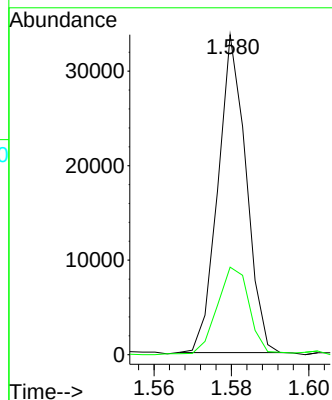
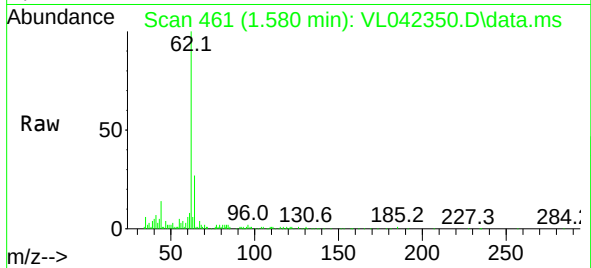
#5
 Vinyl Chloride
 Concen: 1.811 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. -0.000 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICC002

Tgt Ion: 62 Resp: 16979
 Ion Ratio Lower Upper
 62 100
 64 27.2 25.4 38.0

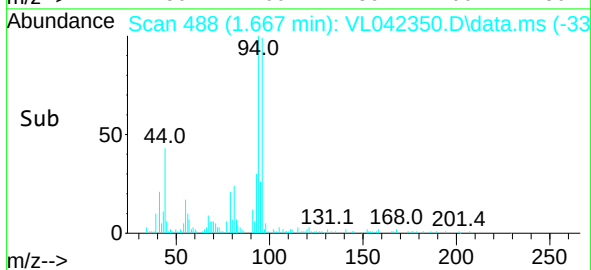
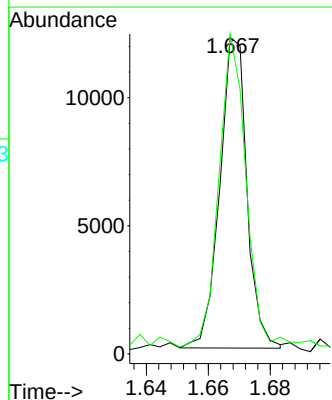
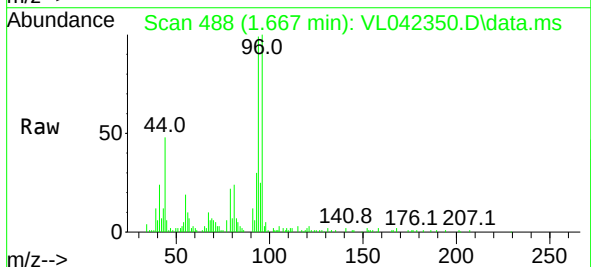
Manual Integrations
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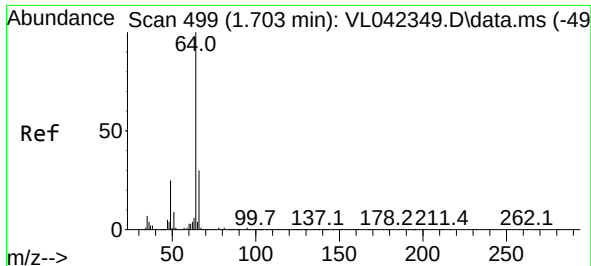
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#6
 Bromomethane
 Concen: 1.821 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. -0.000 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

Tgt Ion: 94 Resp: 7398
 Ion Ratio Lower Upper
 94 100
 96 100.8 66.2 99.2#





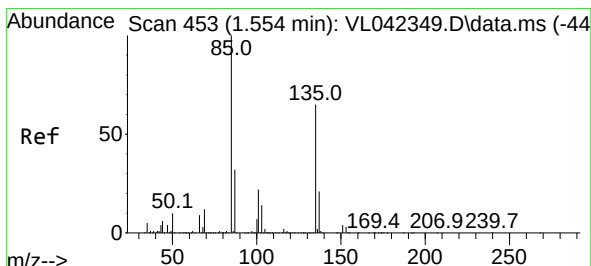
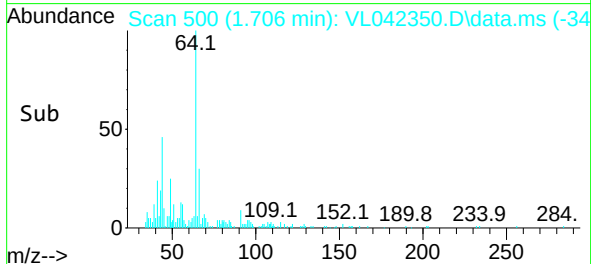
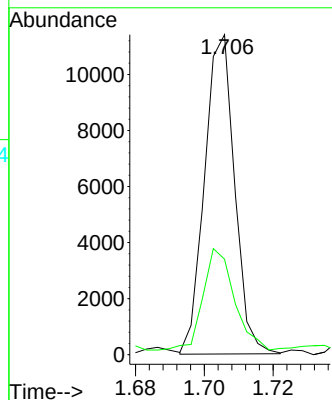
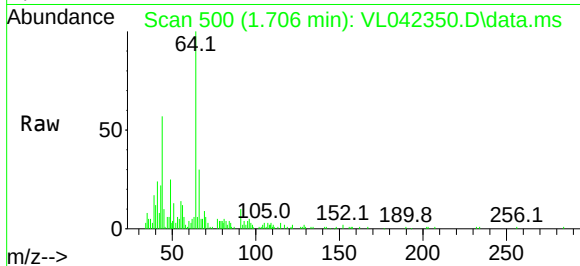
#7
Chloroethane
Concen: 2.031 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion: 64 Resp: 6889
Ion Ratio Lower Upper
64 100
66 29.8 24.6 37.0

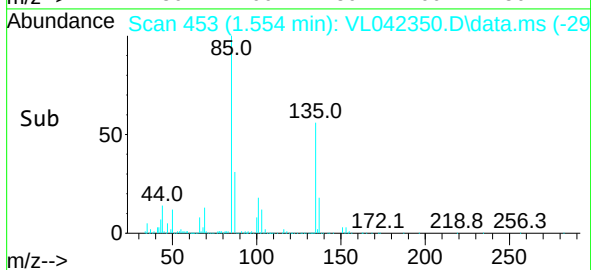
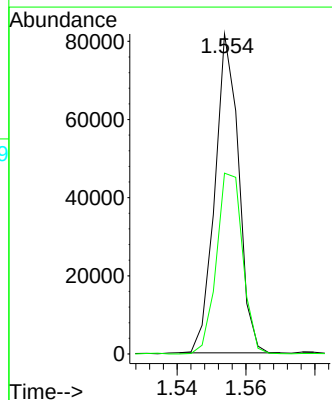
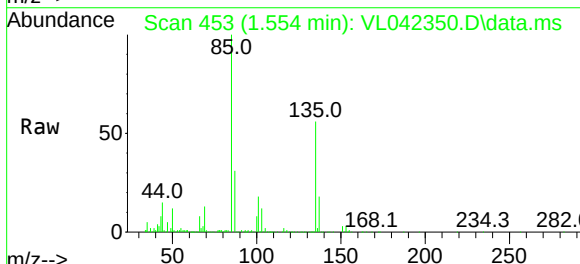
Manual Integrations
APPROVED

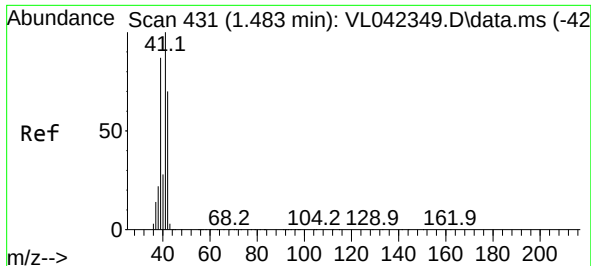
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#8
Dichlorotetrafluoroethane
Concen: 2.084 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 85 Resp: 38955
Ion Ratio Lower Upper
85 100
135 63.3 52.2 78.2





#9

Propene

Concen: 1.978 ppbv

RT: 1.483 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

Tgt Ion: 41 Resp: 1867

Ion Ratio Lower Upper

41 100

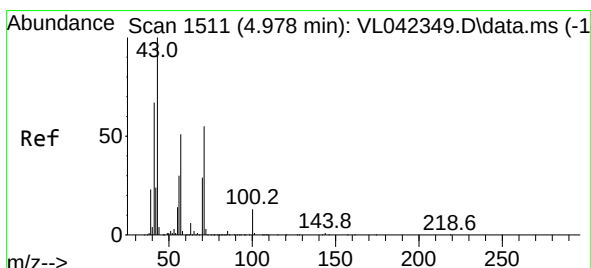
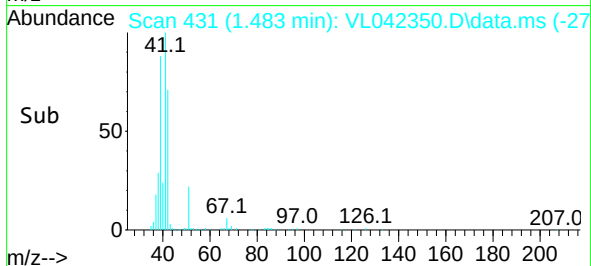
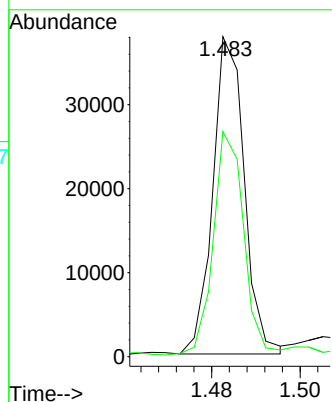
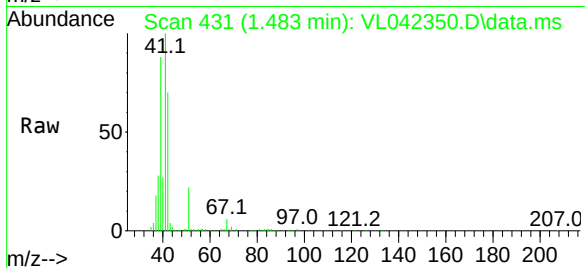
42 72.7 56.2 84.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#10

Heptane

Concen: 2.143 ppbv m

RT: 4.978 min Scan# 1511

Delta R.T. -0.000 min

Lab File: VL042350.D

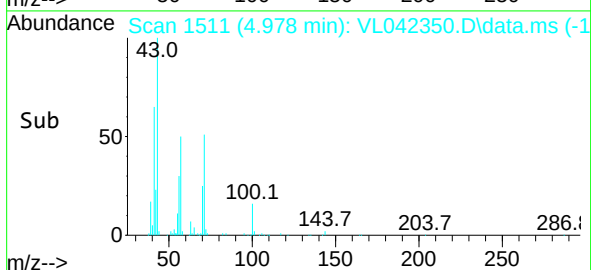
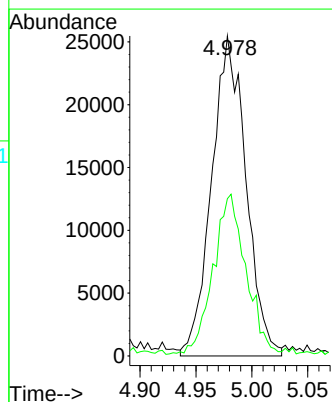
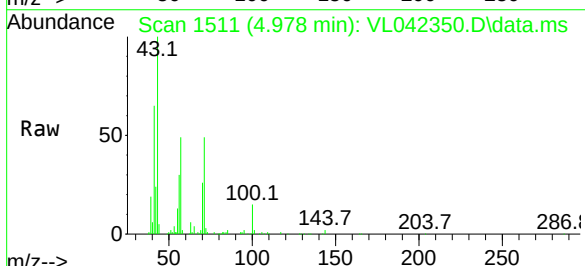
Acq: 17 Apr 2025 10:17

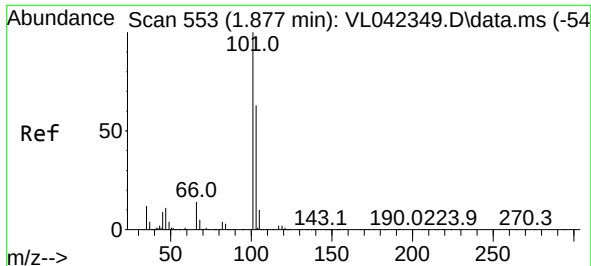
Tgt Ion: 43 Resp: 54438

Ion Ratio Lower Upper

43 100

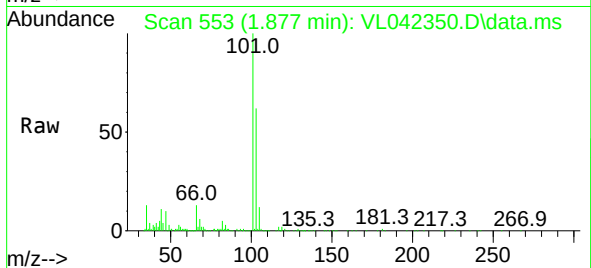
57 48.3 39.9 59.9





#11
Trichlorofluoromethane
Concen: 2.079 ppbv
RT: 1.877 min Scan# 553
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

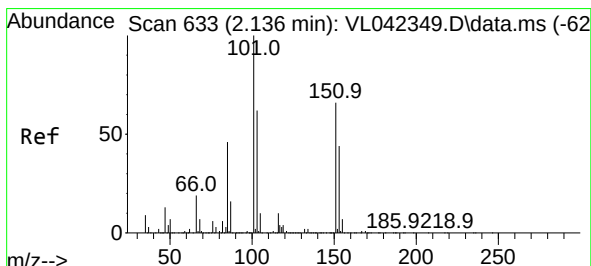
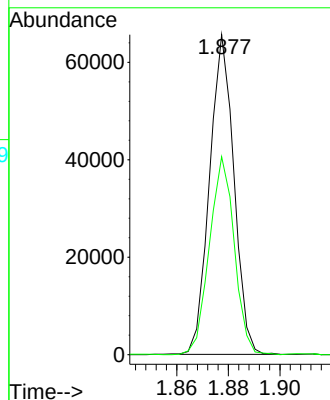
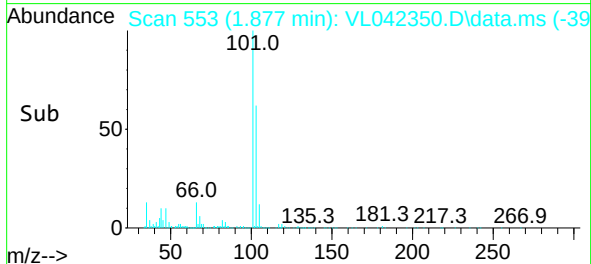
Instrument : MSVOA_L
ClientSampleId : VSTDIC002



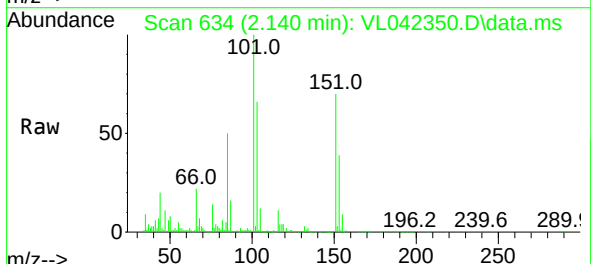
Tgt Ion:101 Resp: 43035
Ion Ratio Lower Upper
101 100
103 61.9 50.1 75.1

Manual Integrations
APPROVED

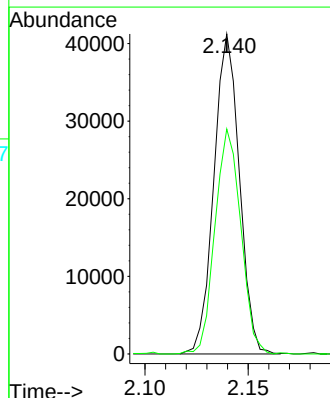
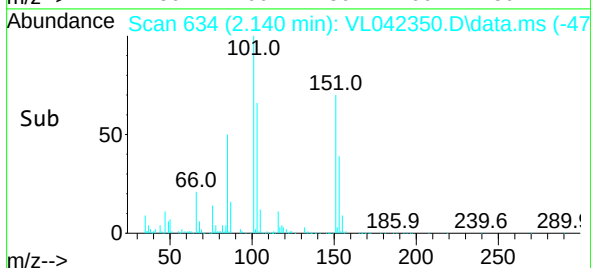
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

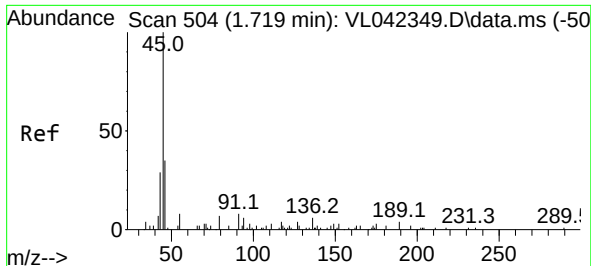


#12
1,1,2-Trichlorotrifluoroethane
Concen: 2.092 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17



Tgt Ion:101 Resp: 35415
Ion Ratio Lower Upper
101 100
151 71.5 57.0 85.6





#13

Ethanol

Concen: 3.933 ppbv m

RT: 1.722 min Scan# 504

Delta R.T. 0.003 min

Lab File: VL042350.D

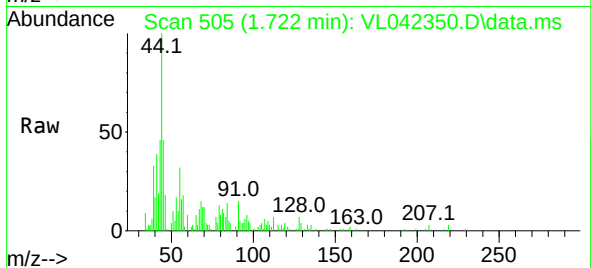
Acq: 17 Apr 2025 10:17

Instrument :

MSVOA_L

ClientSampleId :

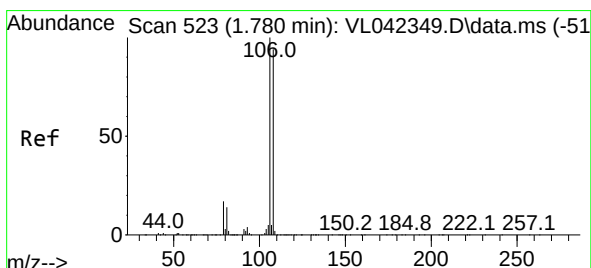
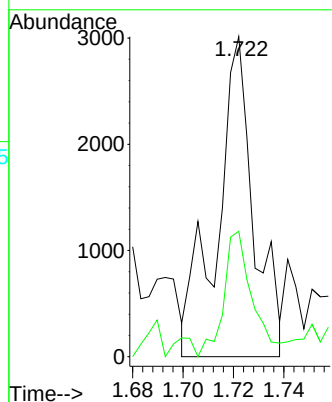
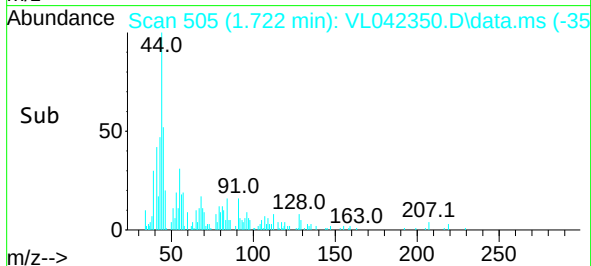
VSTDICC002



Tgt Ion: 45 Resp: 3034
Ion Ratio Lower Upper
45 100
46 39.3 21.9 87.7

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#14

Bromoethene

Concen: 2.045 ppbv

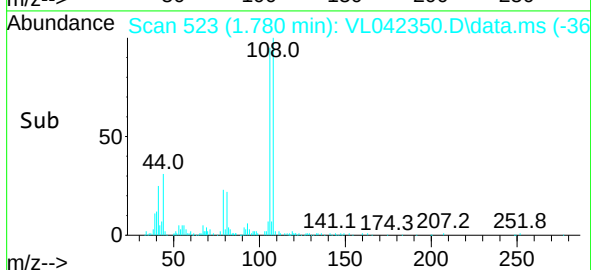
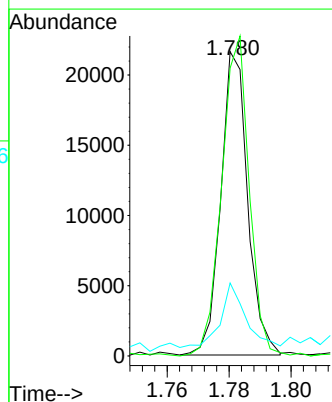
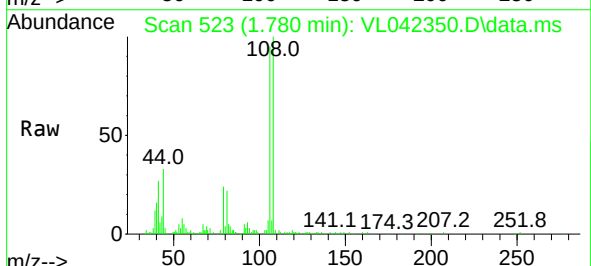
RT: 1.780 min Scan# 523

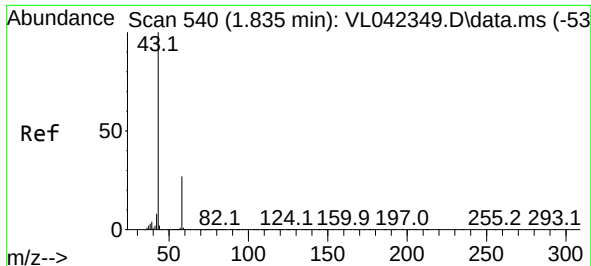
Delta R.T. -0.000 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

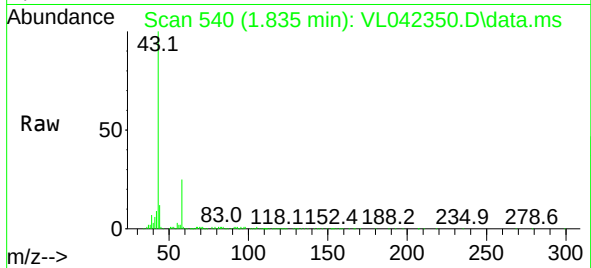
Tgt Ion:108 Resp: 13049
Ion Ratio Lower Upper
108 100
106 110.2 85.9 128.9
79 34.0 13.9 20.9#





#15
Acetone
Concen: 2.129 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

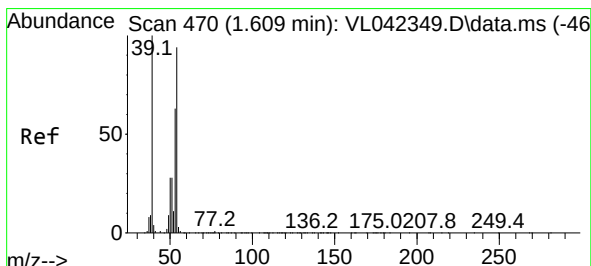
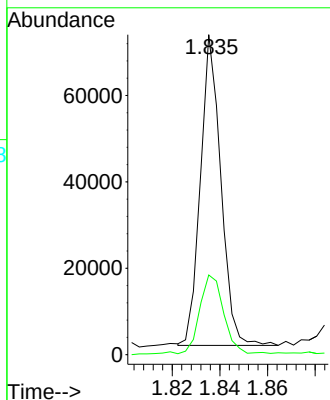
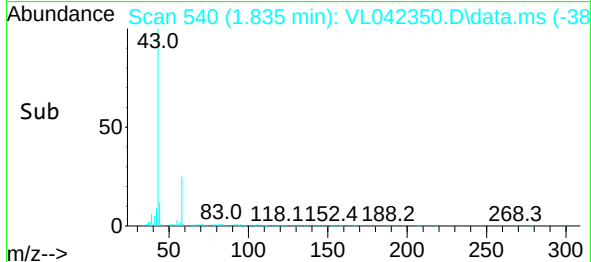
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



Tgt Ion: 43 Resp: 42949
Ion Ratio Lower Upper
43 100
58 31.4 22.4 33.6

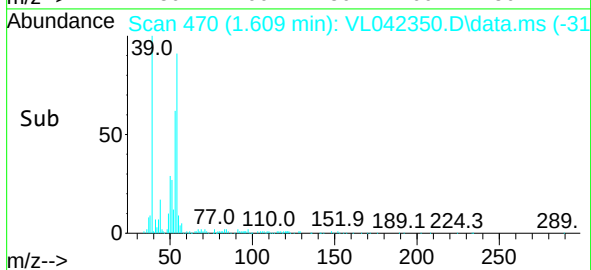
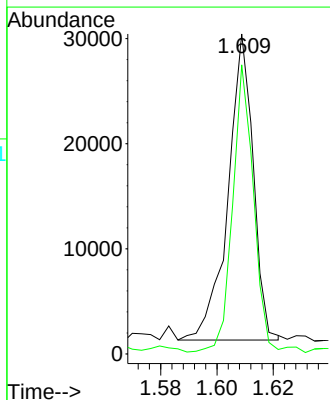
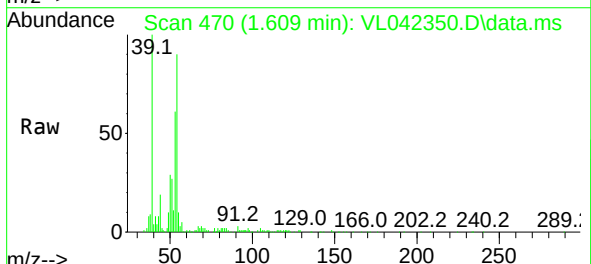
Manual Integrations
APPROVED

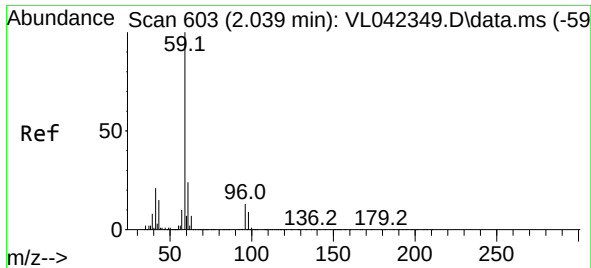
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#16
1,3-Butadiene
Concen: 1.912 ppbv
RT: 1.609 min Scan# 470
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

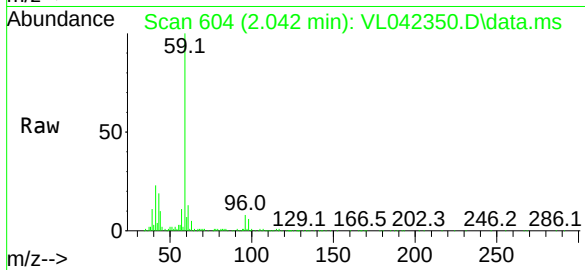
Tgt Ion: 39 Resp: 18110
Ion Ratio Lower Upper
39 100
54 77.2 64.9 97.3





#17
tert-Butyl alcohol
Concen: 2.074 ppbv
RT: 2.042 min Scan# 603
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

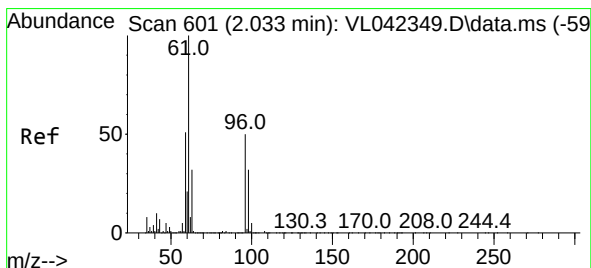
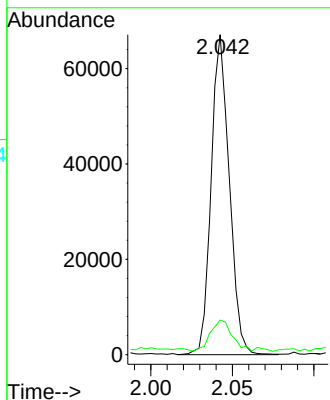
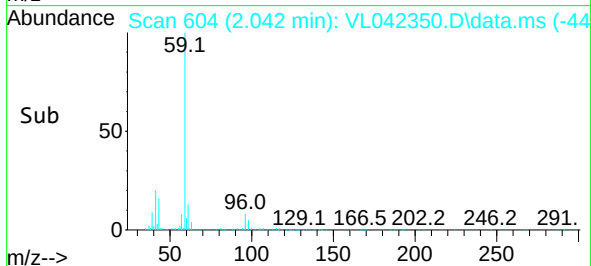
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



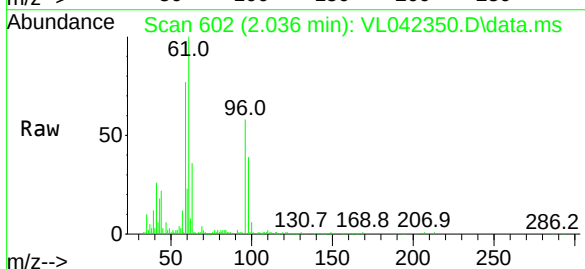
Tgt Ion: 59 Resp: 51829
Ion Ratio Lower Upper
59 100
57 13.2 8.7 13.1

Manual Integrations
APPROVED

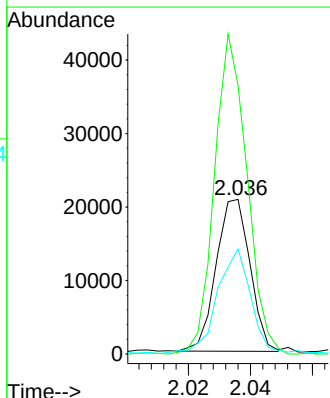
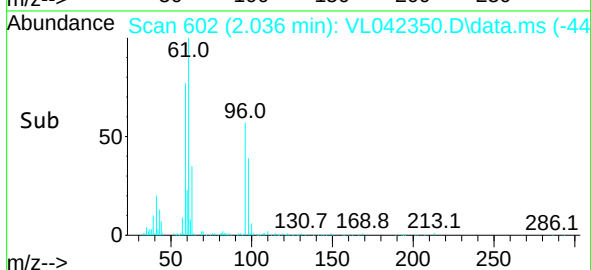
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

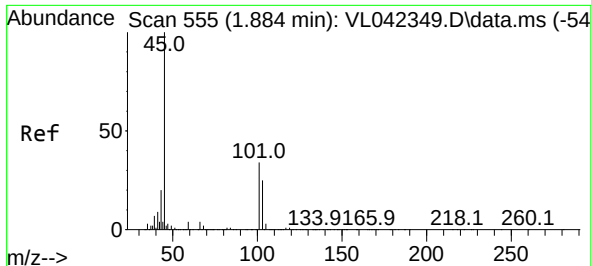


#18
1,1-Dichloroethene
Concen: 1.928 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17



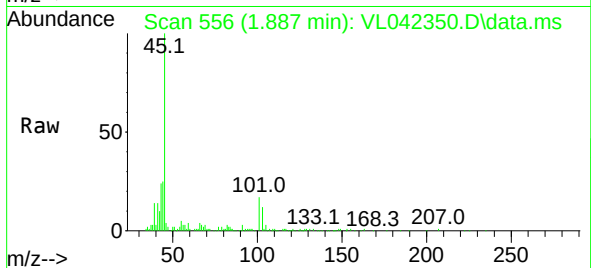
Tgt Ion: 96 Resp: 15690
Ion Ratio Lower Upper
96 100
61 176.1 160.2 240.2
98 67.2 51.0 76.4





#19
Isopropyl Alcohol
Concen: 1.973 ppbv
RT: 1.887 min Scan# 555
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

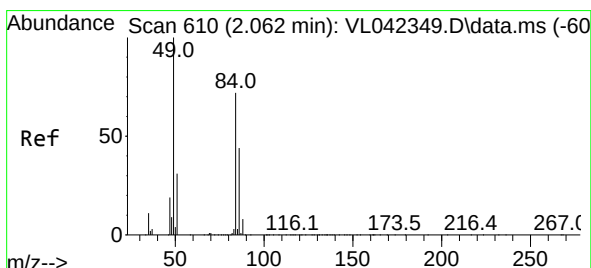
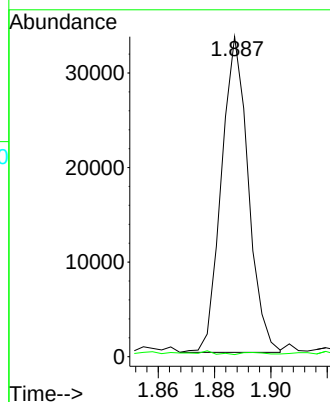
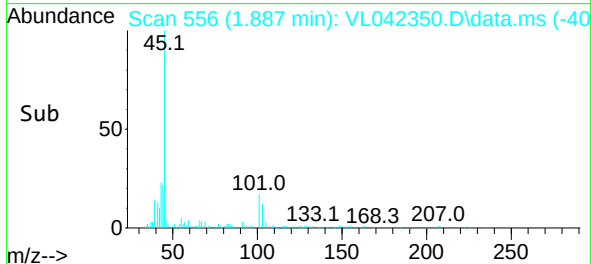
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



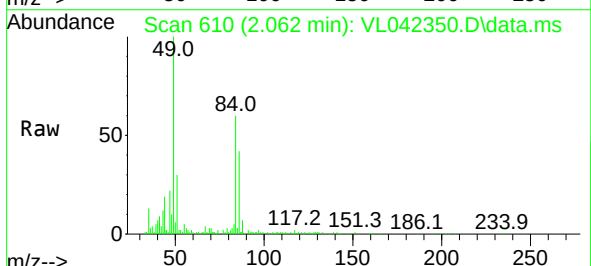
Tgt Ion: 45 Resp: 22100
Ion Ratio Lower Upper
45 100
58 3.6 34.5 51.7

Manual Integrations
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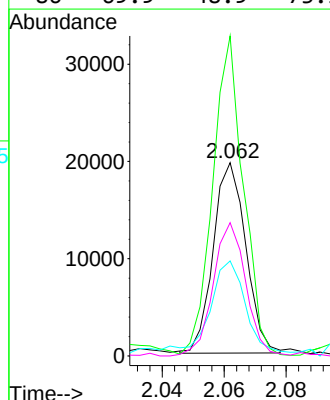
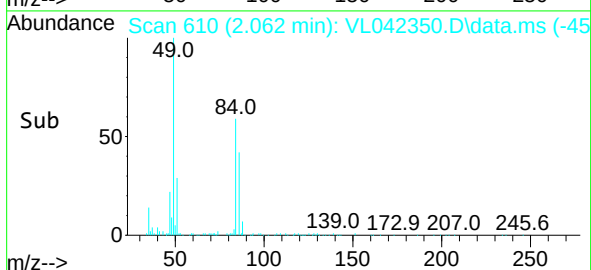
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

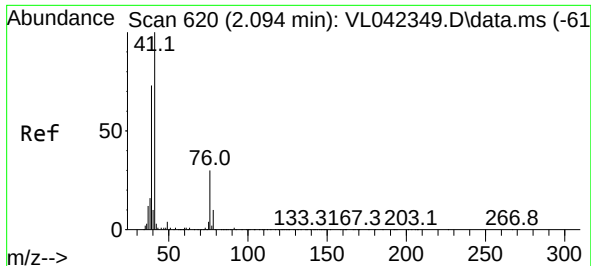


#20
Methylene Chloride
Concen: 1.814 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17



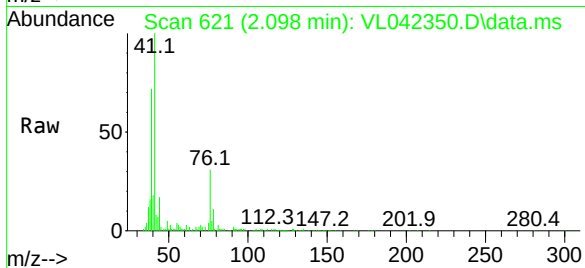
Tgt Ion: 84 Resp: 14329
Ion Ratio Lower Upper
84 100
49 169.1 111.6 167.4#
51 47.9 35.1 52.7
86 69.9 48.9 73.3





#21
 Allyl Chloride
 Concen: 1.963 ppbv
 RT: 2.098 min Scan# 61
 Delta R.T. 0.003 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

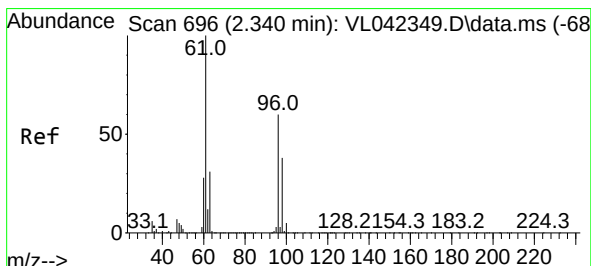
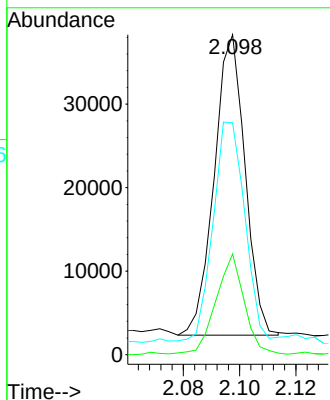
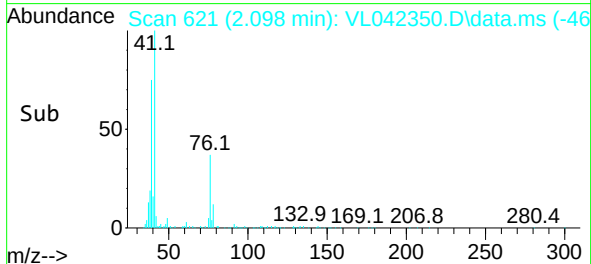
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002



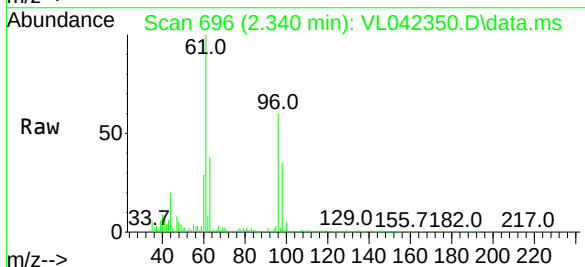
Tgt Ion: 41 Resp: 27340
 Ion Ratio Lower Upper
 41 100
 76 31.9 24.8 37.2
 39 81.2 60.6 90.8

Manual Integrations
 APPROVED

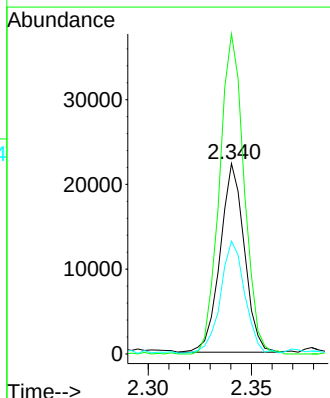
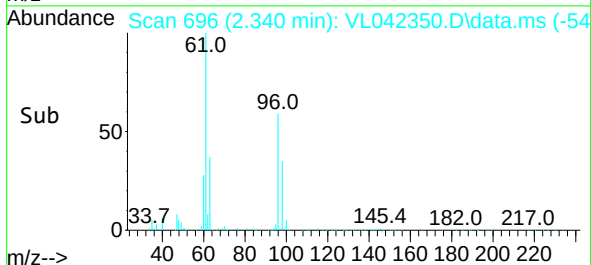
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

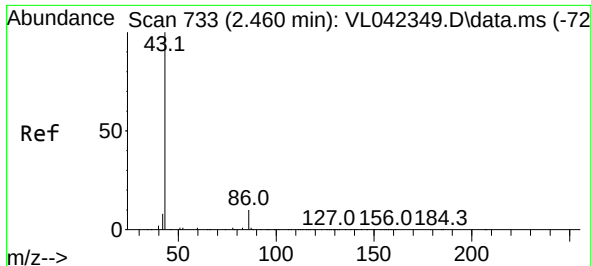


#22
 trans-1,2-Dichloroethene
 Concen: 2.015 ppbv
 RT: 2.340 min Scan# 696
 Delta R.T. -0.000 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17



Tgt Ion: 96 Resp: 18142
 Ion Ratio Lower Upper
 96 100
 61 169.6 133.7 200.5
 98 59.3 50.3 75.5





#23
 Vinyl Acetate
 Concen: 2.260 ppbv
 RT: 2.463 min Scan# 718
 Delta R.T. 0.003 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

Instrument :

MSVOA_L

ClientSampleId :

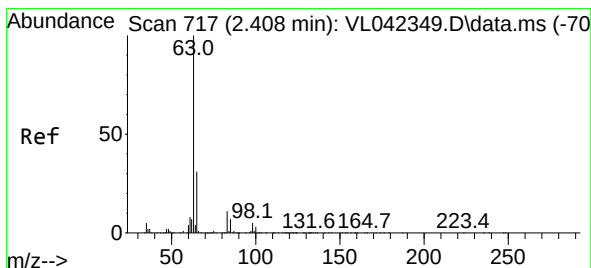
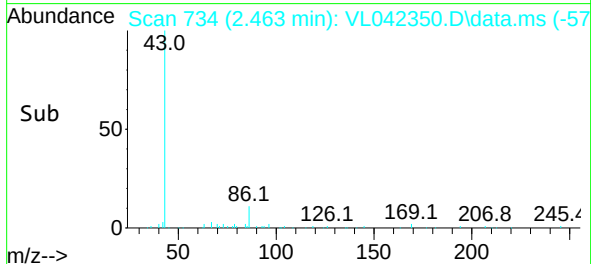
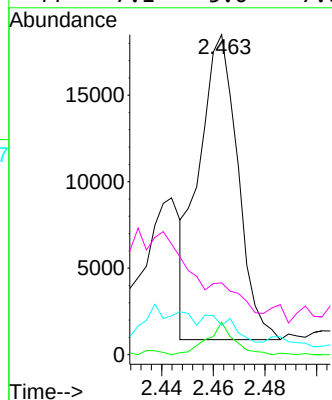
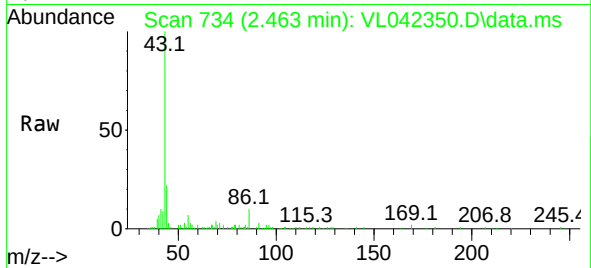
VSTDICC002

Tgt Ion: 43 Resp: 18454
 Ion Ratio Lower Upper
 43 100
 86 10.2 6.5 9.7
 42 3.7 7.8 11.8
 44 7.1 5.0 7.6

Manual Integrations

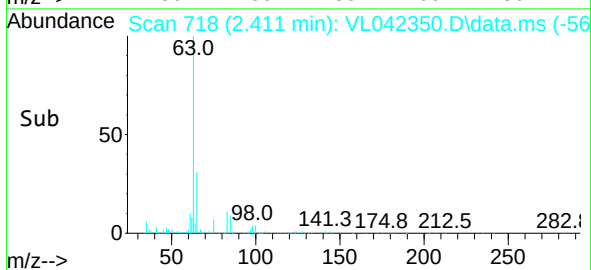
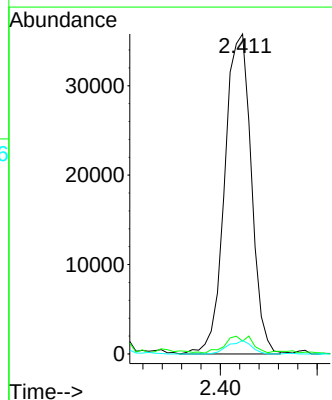
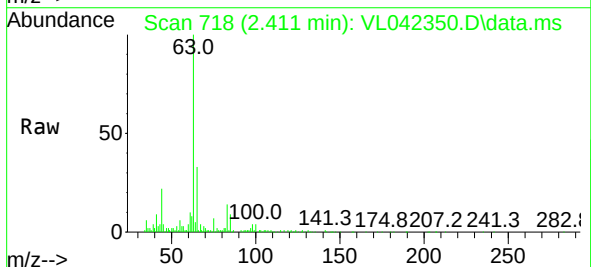
APPROVED

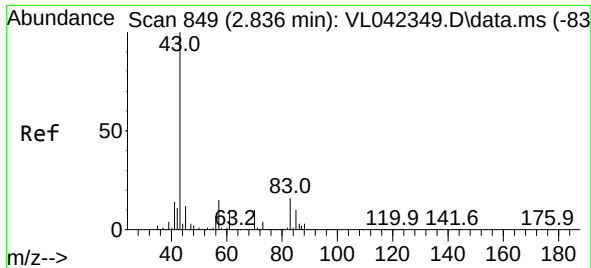
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#24
 1,1-Dichloroethane
 Concen: 1.993 ppbv
 RT: 2.411 min Scan# 718
 Delta R.T. 0.003 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

Tgt Ion: 63 Resp: 34077
 Ion Ratio Lower Upper
 63 100
 98 3.1 2.3 6.8
 100 4.2 1.6 4.8





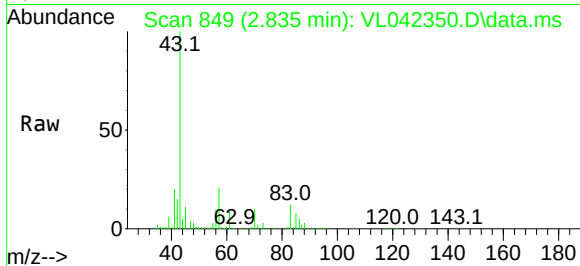
#25
Ethyl Acetate
Concen: 2.040 ppbv
RT: 2.835 min Scan# 849
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :

MSVOA_L

ClientSampleId :

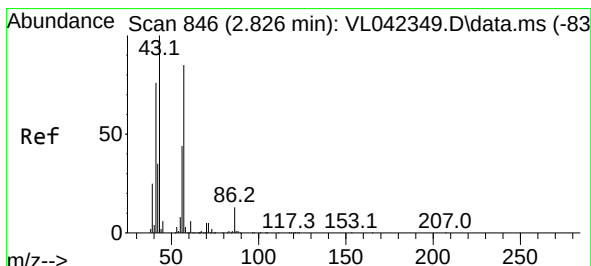
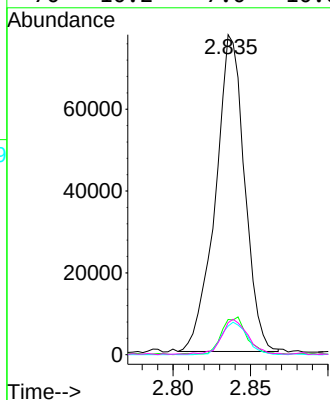
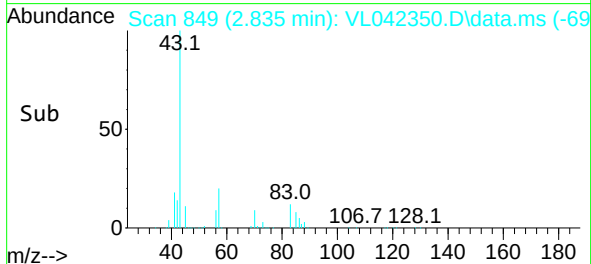
VSTDICC002



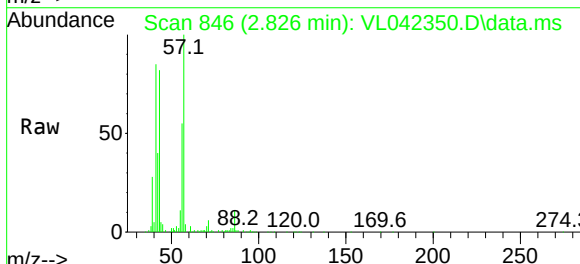
Tgt Ion: 43 Resp: 10146
Ion Ratio Lower Upper
43 100
45 10.4 8.3 12.5
61 9.2 7.3 10.9
70 10.2 7.0 10.6

Manual Integrations
APPROVED

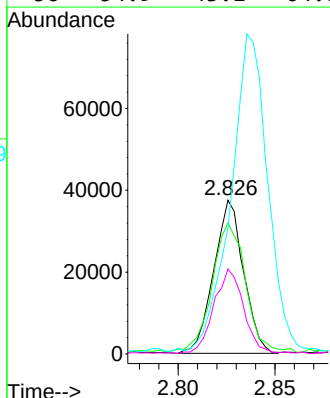
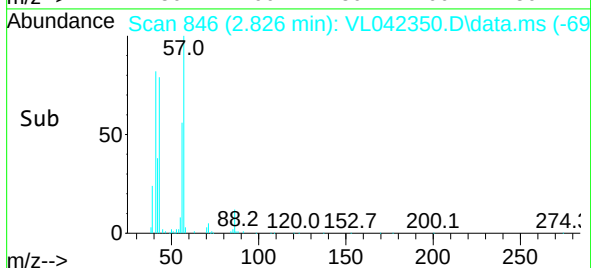
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

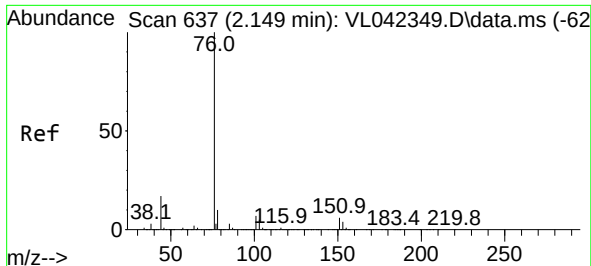


#26
Hexane
Concen: 1.990 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17



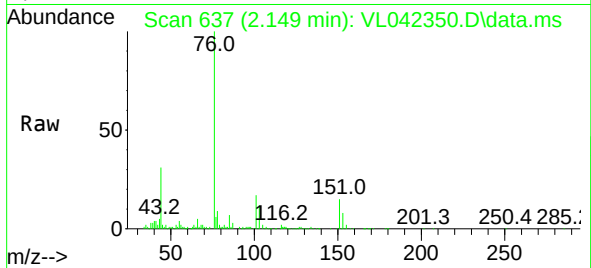
Tgt Ion: 57 Resp: 40046
Ion Ratio Lower Upper
57 100
41 94.1 77.9 116.9
43 260.7 208.4 312.6
56 54.9 43.1 64.7





#27
Carbon Disulfide
Concen: 2.041 ppbv
RT: 2.149 min Scan# 637
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

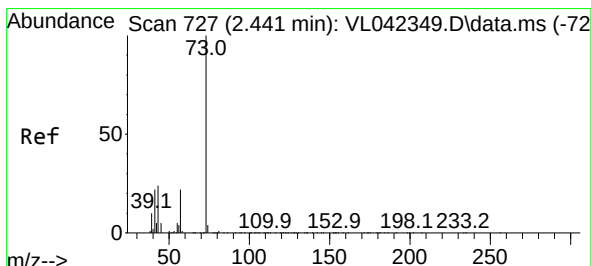
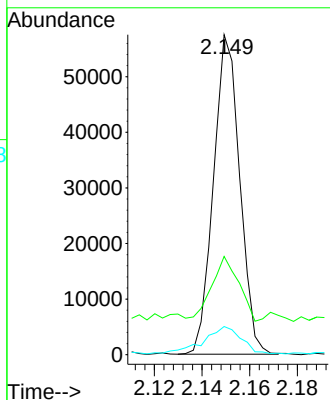
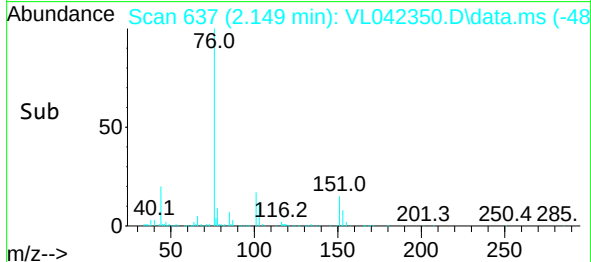
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



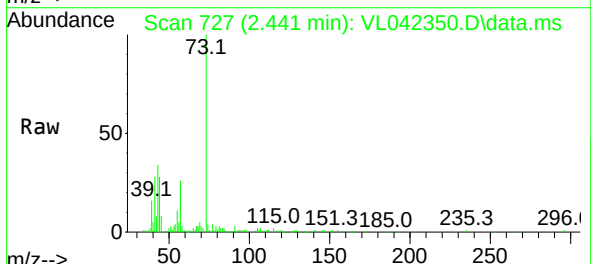
Tgt Ion: 76 Resp: 43975
Ion Ratio Lower Upper
76 100
44 44.3 15.5 23.3
78 13.6 9.3 13.9

Manual Integrations
APPROVED

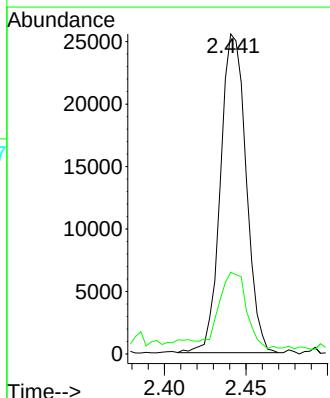
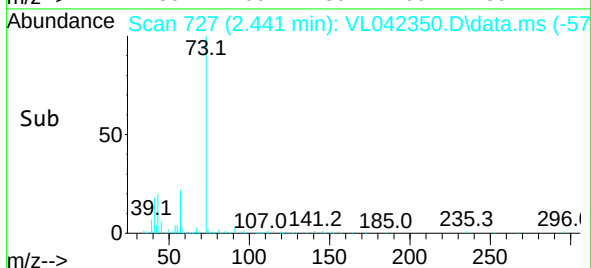
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

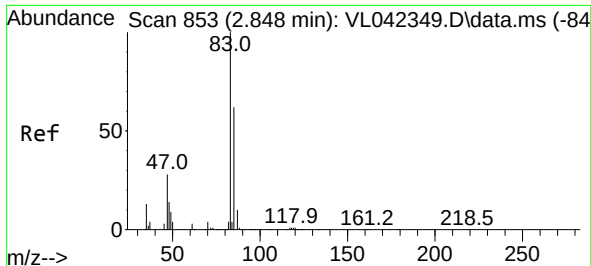


#28
Methyl tert-Butyl Ether
Concen: 2.116 ppbv
RT: 2.441 min Scan# 727
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17



Tgt Ion: 73 Resp: 27905
Ion Ratio Lower Upper
73 100
57 28.1 21.3 31.9





#29

Chloroform

Concen: 2.072 ppbv

RT: 2.848 min Scan# 81

Delta R.T. -0.000 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

Tgt Ion: 83 Resp: 58940

Ion Ratio Lower Upper

83 100

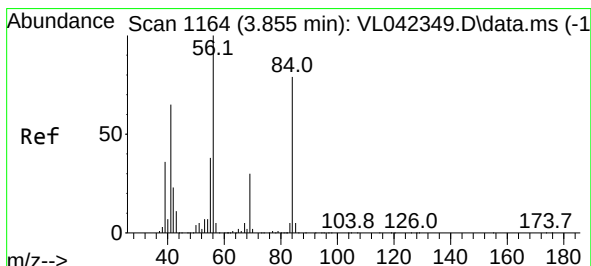
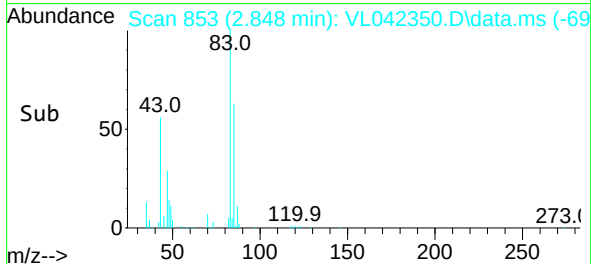
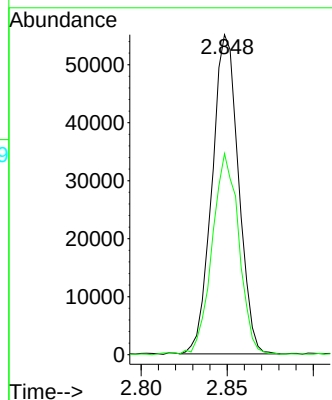
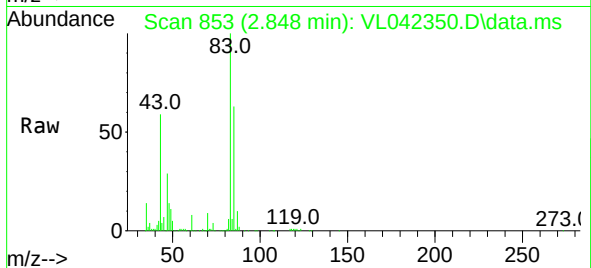
85 62.9 50.0 75.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#30

Cyclohexane

Concen: 2.048 ppbv

RT: 3.858 min Scan# 1165

Delta R.T. 0.003 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

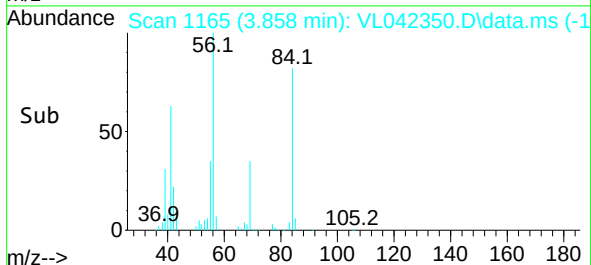
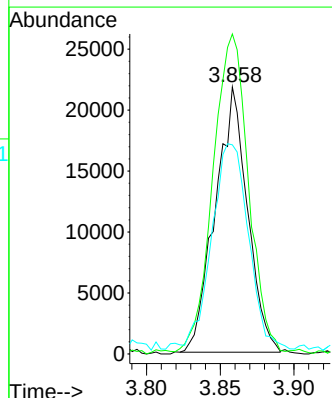
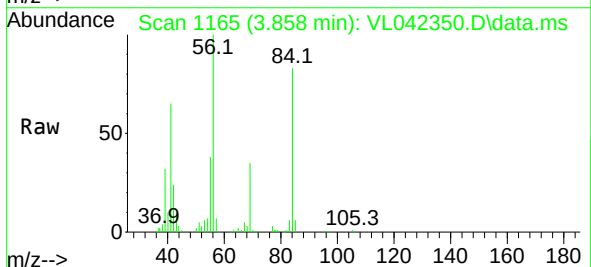
Tgt Ion: 84 Resp: 33195

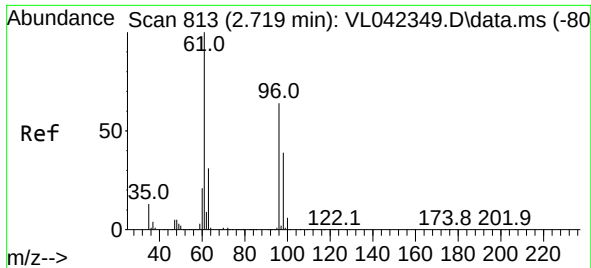
Ion Ratio Lower Upper

84 100

56 134.5 101.0 151.4

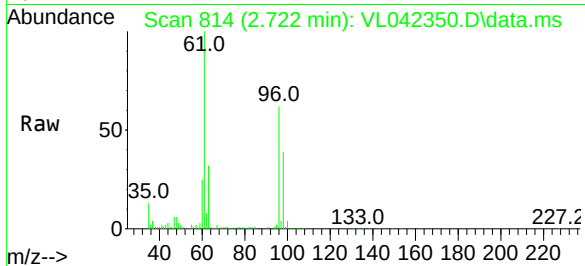
41 88.1 67.4 101.0





#31
 cis-1,2-Dichloroethene
 Concen: 2.051 ppbv
 RT: 2.722 min Scan# 813
 Delta R.T. 0.003 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

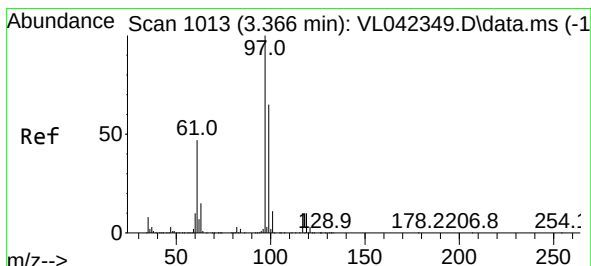
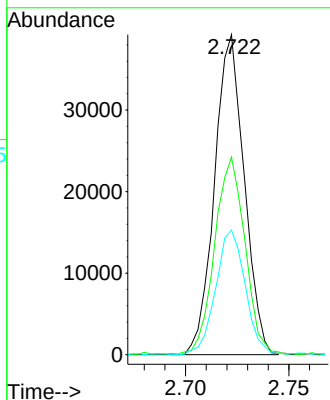
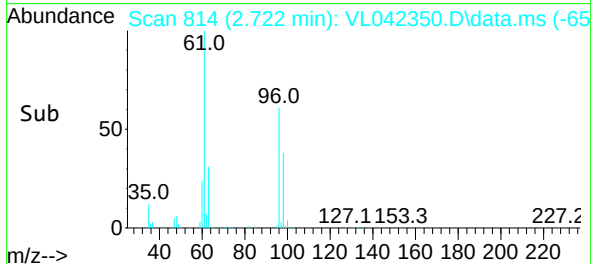
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002



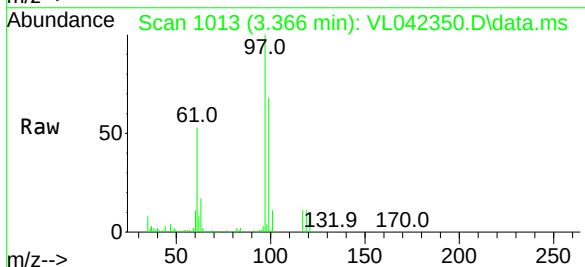
Tgt Ion: 61 Resp: 39249
 Ion Ratio Lower Upper
 61 100
 96 61.6 50.8 76.2
 98 39.0 30.9 46.3

Manual Integrations
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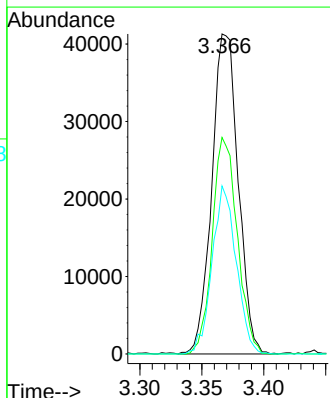
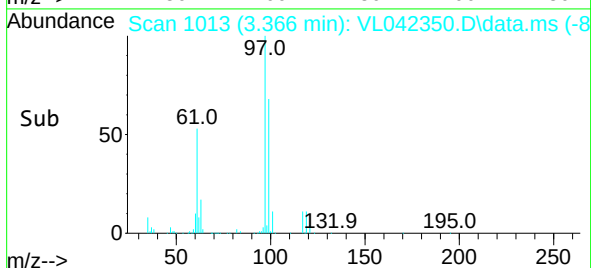
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

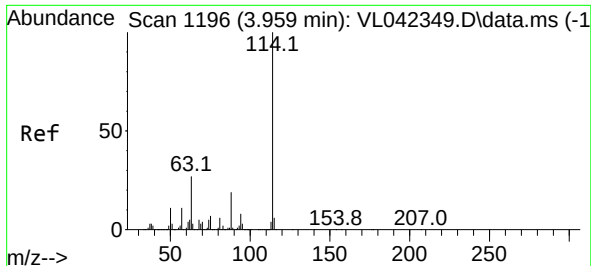


#32
 1,1,1-Trichloroethane
 Concen: 2.014 ppbv
 RT: 3.366 min Scan# 1013
 Delta R.T. -0.000 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17



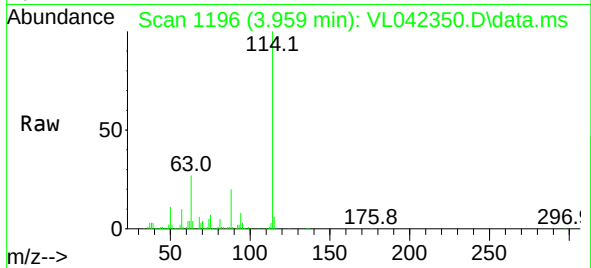
Tgt Ion: 97 Resp: 61442
 Ion Ratio Lower Upper
 97 100
 99 64.0 51.0 76.4
 61 48.0 38.8 58.2





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

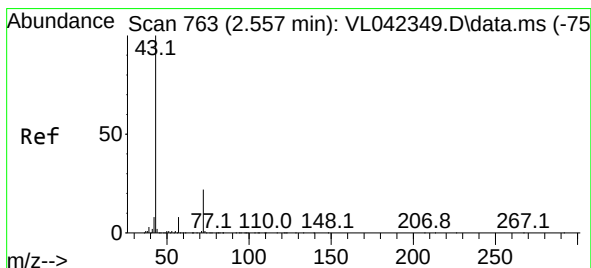
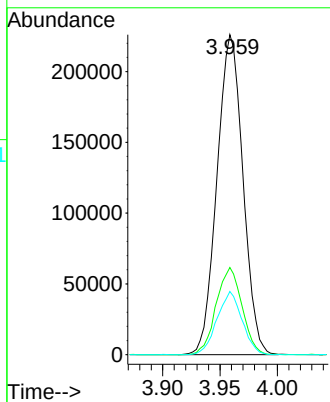
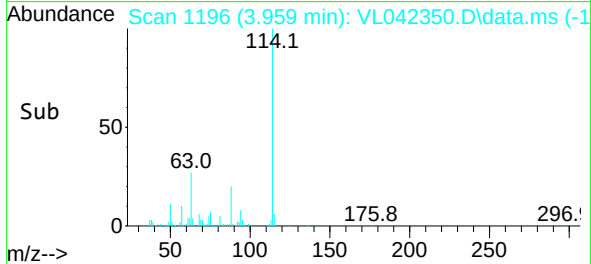
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



Tgt Ion:114 Resp: 355918
Ion Ratio Lower Upper
114 100
63 27.1 21.8 32.6
88 19.0 15.5 23.3

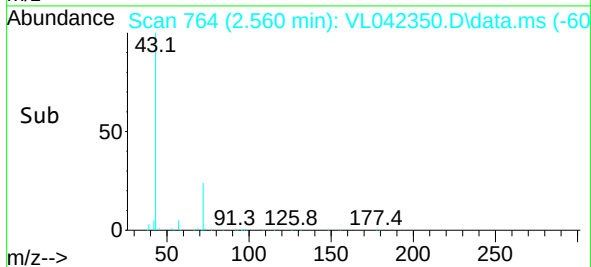
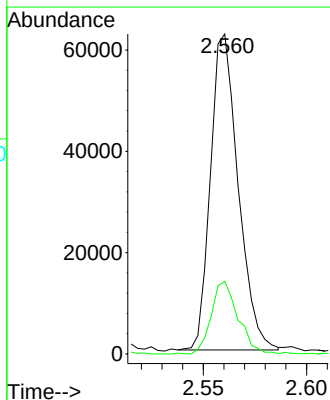
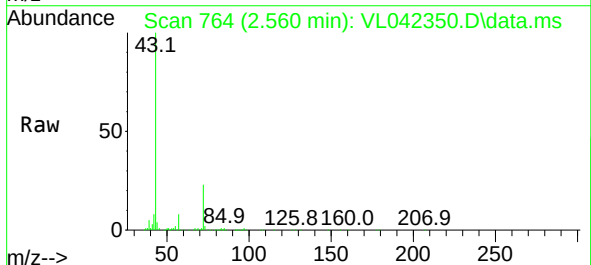
Manual Integrations
APPROVED

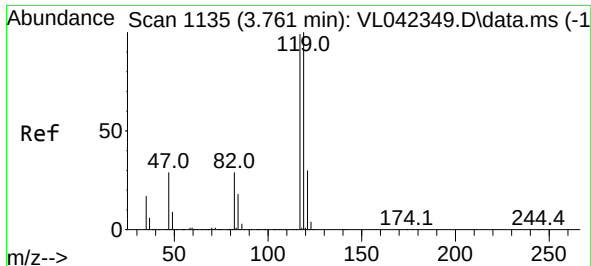
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#34
2-Butanone
Concen: 2.069 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

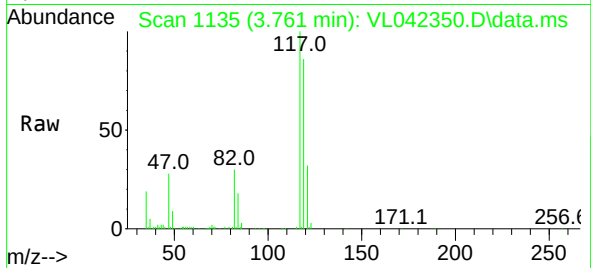
Tgt Ion: 43 Resp: 58249
Ion Ratio Lower Upper
43 100
72 22.5 18.2 27.2





#35
Carbon Tetrachloride
Concen: 1.872 ppbv
RT: 3.761 min Scan# 1135
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

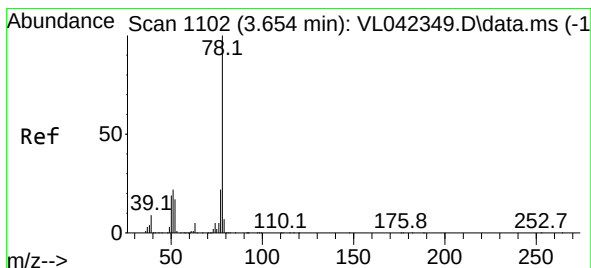
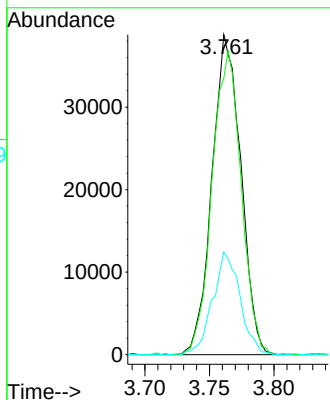
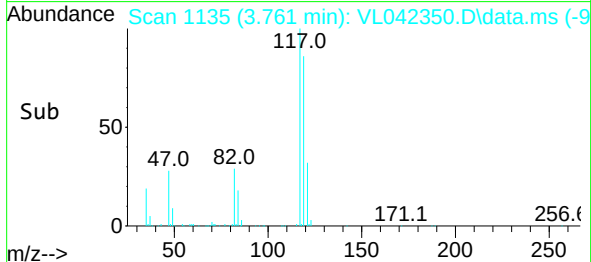
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



Tgt Ion: 117 Resp: 6029
Ion Ratio Lower Upper
117 100
119 86.4 80.5 120.7
121 32.1 24.2 36.2

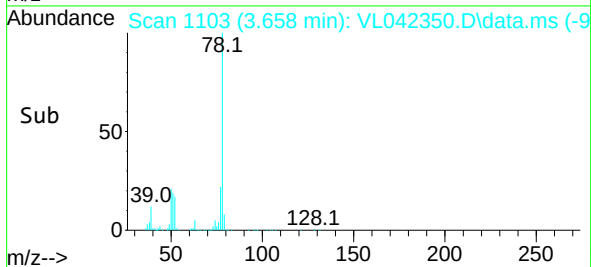
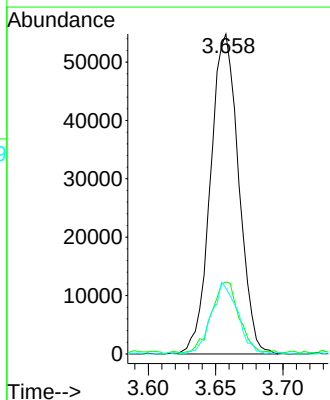
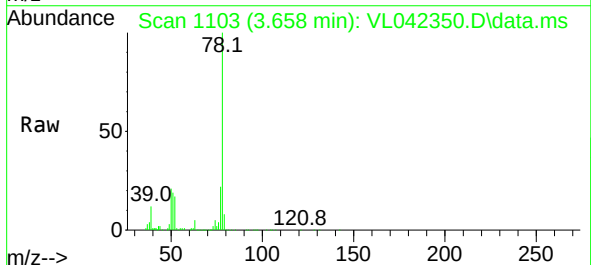
Manual Integrations
APPROVED

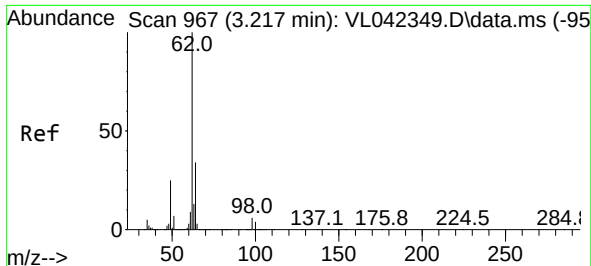
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#36
Benzene
Concen: 2.079 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

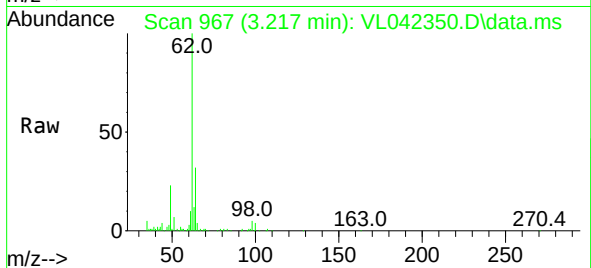
Tgt Ion: 78 Resp: 79814
Ion Ratio Lower Upper
78 100
77 22.0 17.4 26.0
50 20.6 15.5 23.3





#37
1,2-Dichloroethane
Concen: 2.057 ppbv
RT: 3.217 min Scan# 967
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

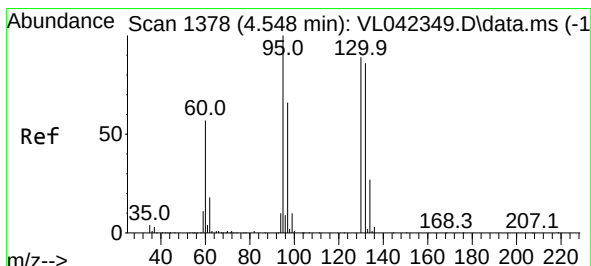
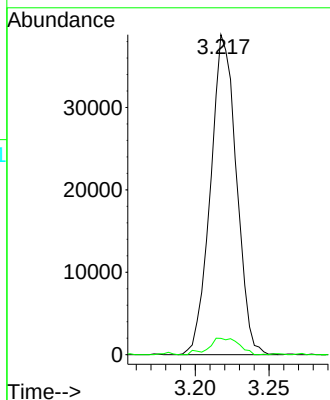
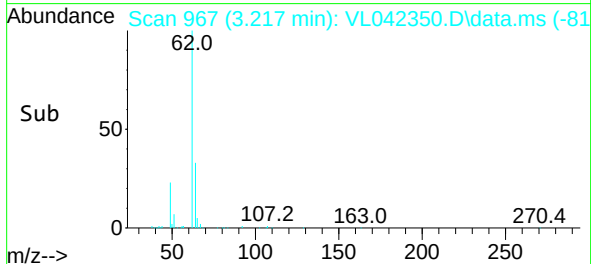
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



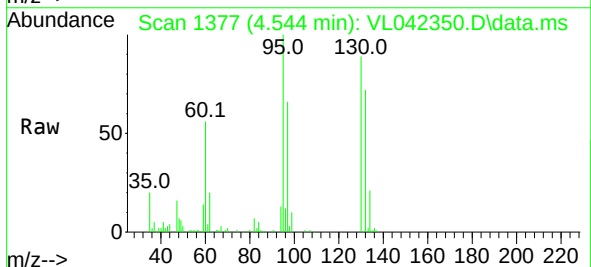
Tgt Ion: 62 Resp: 47398
Ion Ratio Lower Upper
62 100
98 6.4 5.1 7.7

Manual Integrations
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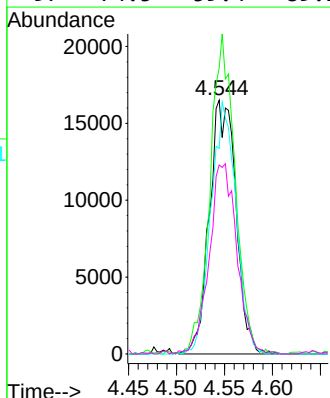
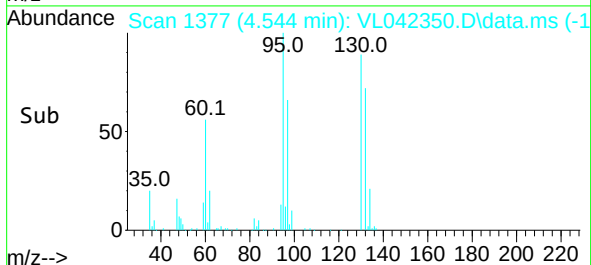
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

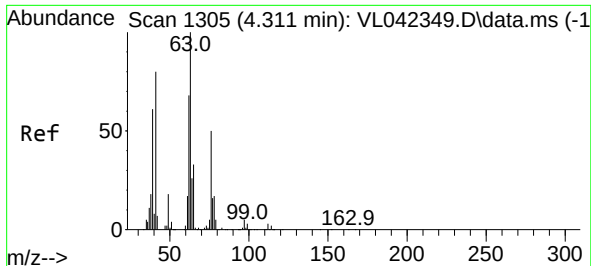


#38
Trichloroethene
Concen: 1.891 ppbv m
RT: 4.544 min Scan# 1377
Delta R.T. -0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17



Tgt Ion:130 Resp: 31826
Ion Ratio Lower Upper
130 100
95 112.6 89.8 134.6
132 81.1 77.7 116.5
97 74.5 59.4 89.2





#39

1,2-Dichloropropane

Concen: 2.012 ppbv

RT: 4.315 min Scan# 1305

Delta R.T. 0.003 min

Lab File: VL042350.D

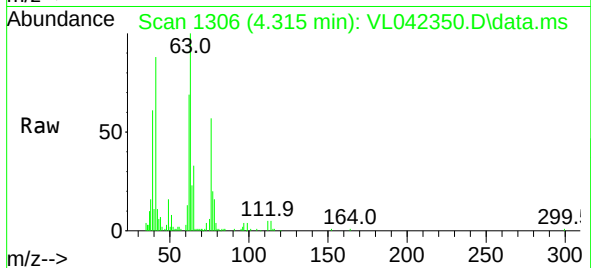
Acq: 17 Apr 2025 10:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002



Tgt Ion: 63 Resp: 28800

Ion Ratio Lower Upper

63 100

41 85.2 64.2 96.2

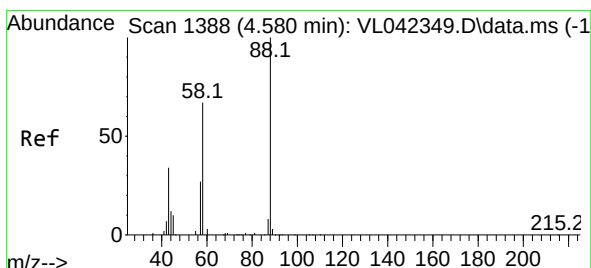
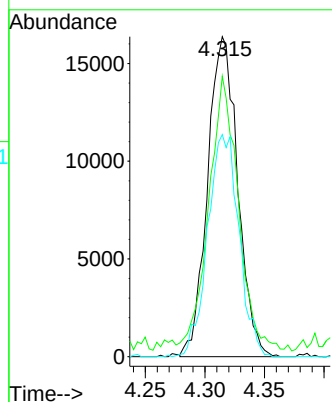
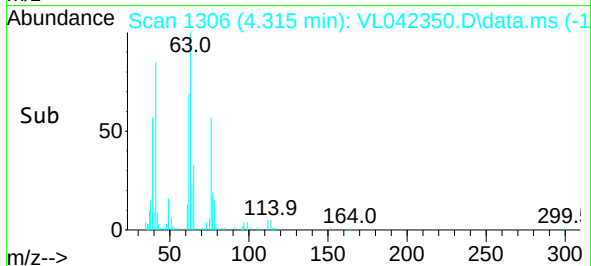
62 69.4 54.3 81.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#40

1,4-Dioxane

Concen: 2.133 ppbv m

RT: 4.593 min Scan# 1392

Delta R.T. 0.013 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

Tgt Ion: 88 Resp: 16536

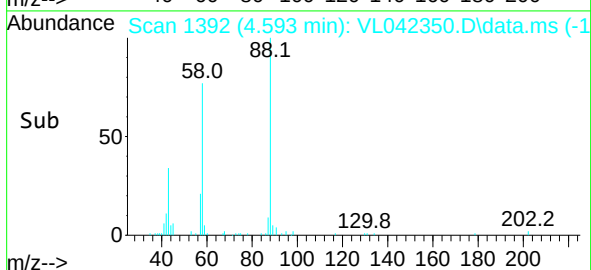
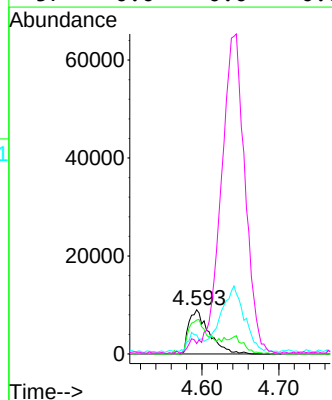
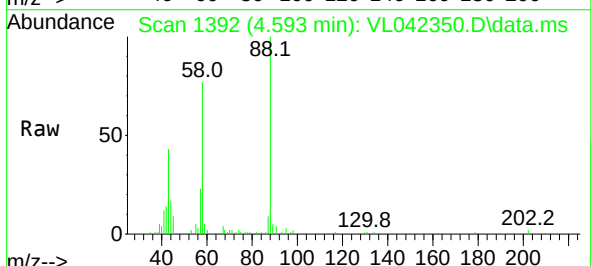
Ion Ratio Lower Upper

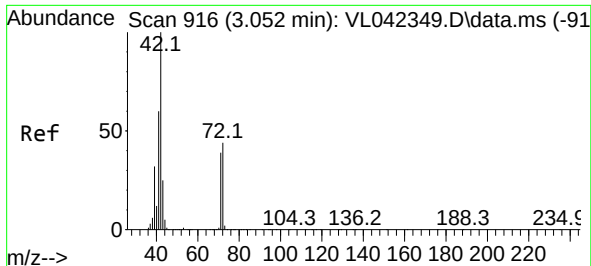
88 100

58 82.3 61.4 92.0

43 6.1 23.2 34.8#

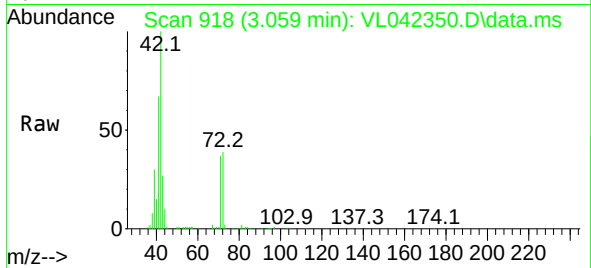
57 0.0 0.0 0.0





#41
Tetrahydrofuran
Concen: 2.047 ppbv
RT: 3.059 min Scan# 916
Delta R.T. 0.006 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

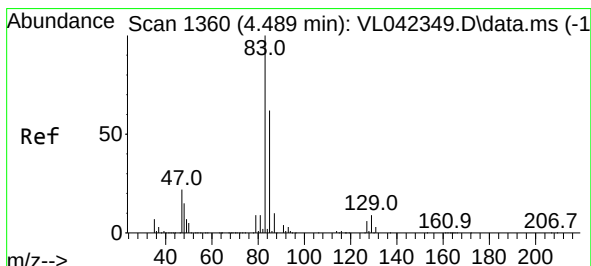
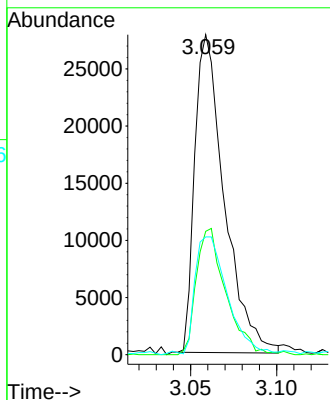
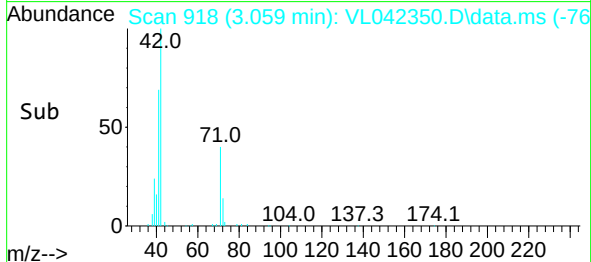
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



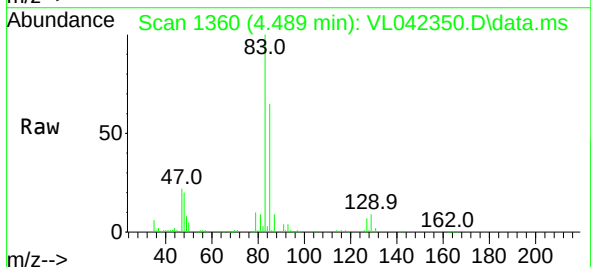
Tgt Ion: 42 Resp: 33298
Ion Ratio Lower Upper
42 100
72 39.9 32.3 48.5
71 41.5 31.4 47.2

Manual Integrations
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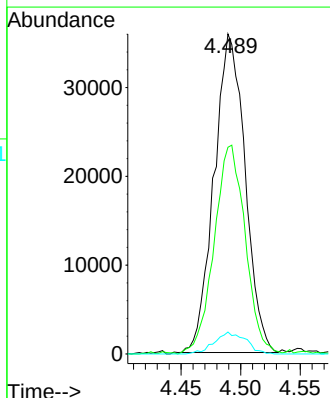
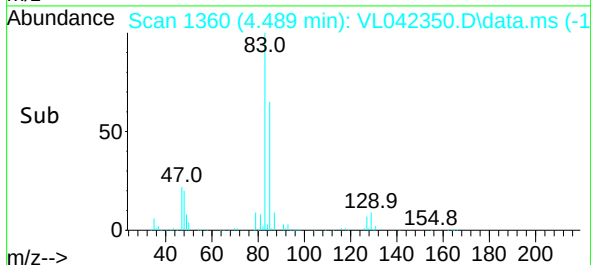
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

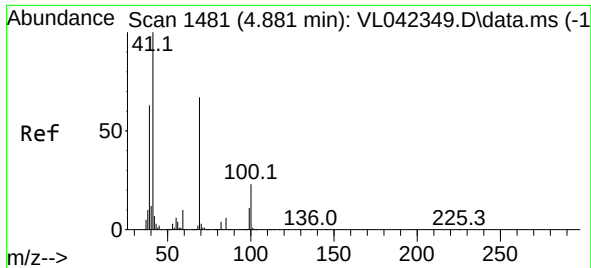


#42
Bromodichloromethane
Concen: 2.025 ppbv
RT: 4.489 min Scan# 1360
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17



Tgt Ion: 83 Resp: 64941
Ion Ratio Lower Upper
83 100
85 64.9 49.7 74.5
127 6.9 5.1 7.7





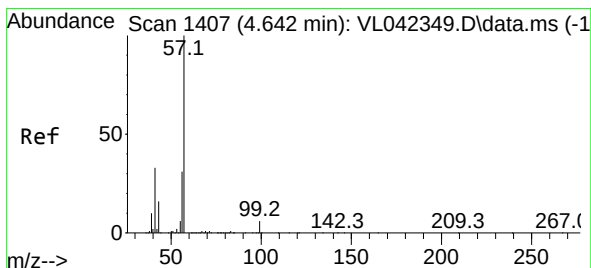
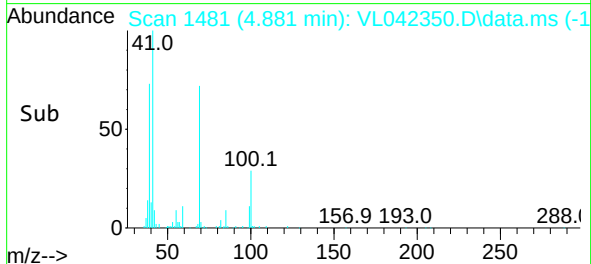
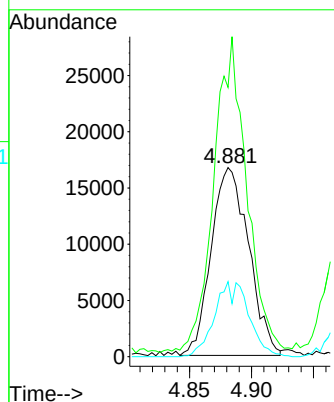
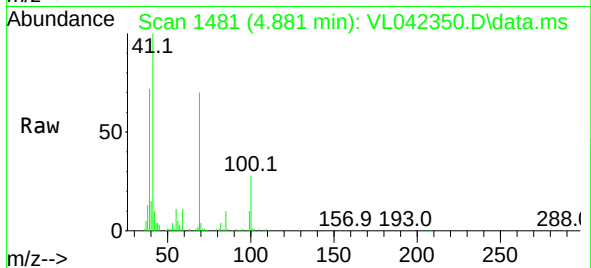
#43
Methyl Methacrylate
Concen: 2.046 ppbv
RT: 4.881 min Scan# 1481
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 69 Resp: 35250
Ion Ratio Lower Upper
69 100
41 144.4 118.6 177.8
100 36.5 28.2 42.2

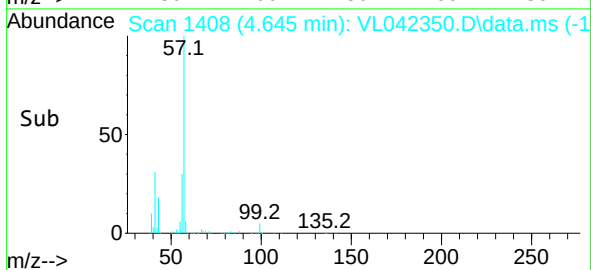
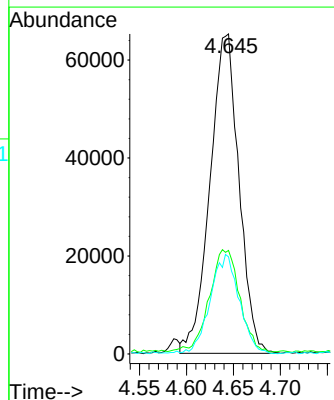
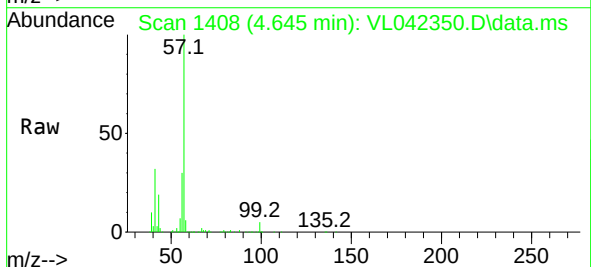
Manual Integrations
APPROVED

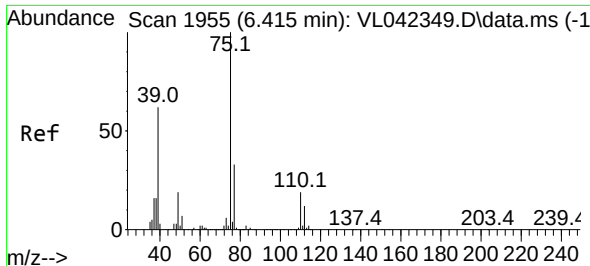
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#44
2,2,4-Trimethylpentane
Concen: 2.103 ppbv
RT: 4.645 min Scan# 1408
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

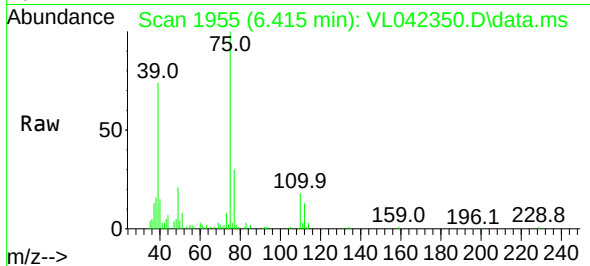
Tgt Ion: 57 Resp: 139641
Ion Ratio Lower Upper
57 100
41 34.4 27.2 40.8
56 31.3 25.7 38.5





#45
 t-1,3-Dichloropropene
 Concen: 2.050 ppbv
 RT: 6.415 min Scan# 1955
 Delta R.T. -0.000 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

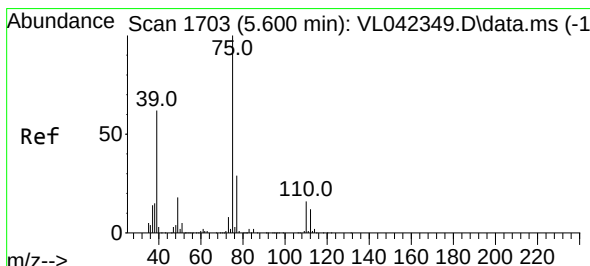
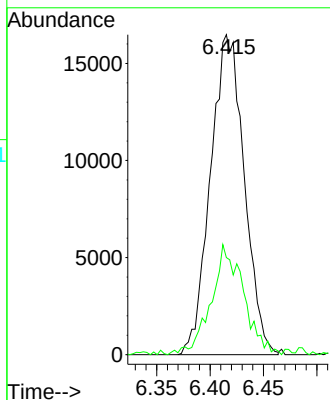
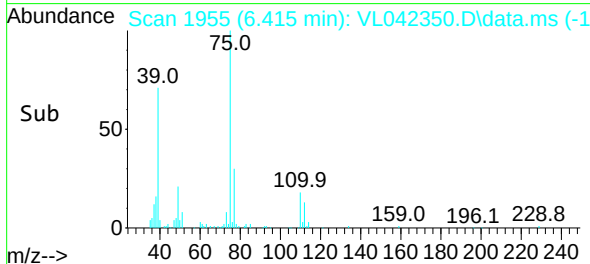
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002



Tgt Ion: 75 Resp: 3626
 Ion Ratio Lower Upper
 75 100
 77 30.4 27.0 40.6

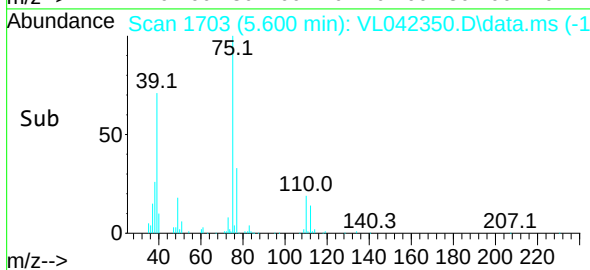
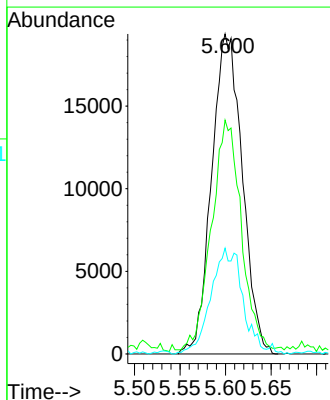
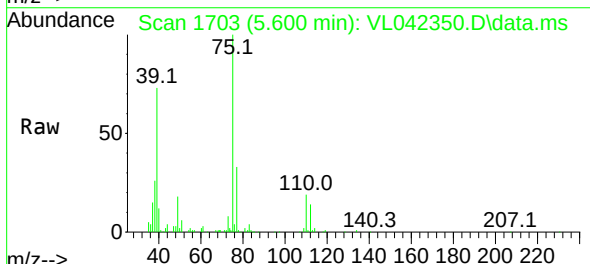
Manual Integrations
 APPROVED

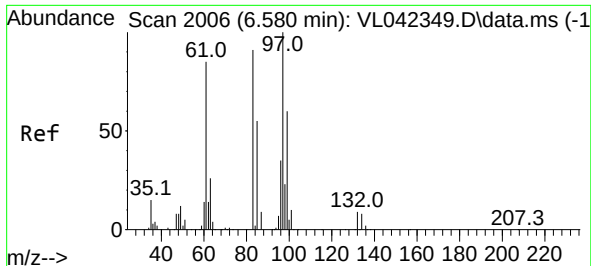
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#46
 cis-1,3-Dichloropropene
 Concen: 2.096 ppbv m
 RT: 5.600 min Scan# 1703
 Delta R.T. -0.000 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

Tgt Ion: 75 Resp: 45327
 Ion Ratio Lower Upper
 75 100
 39 73.0 50.0 75.0
 77 33.1 23.0 34.6





#47

1,1,2-Trichloroethane

Concen: 2.049 ppbv

RT: 6.590 min Scan# 2006

Delta R.T. 0.010 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion: 97 Resp: 29879

Ion Ratio Lower Upper

97 100

83 78.8 72.8 109.2

85 61.7 44.2 66.4

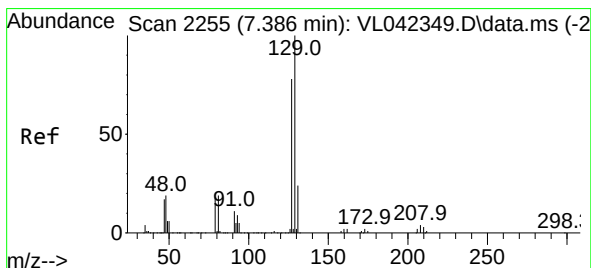
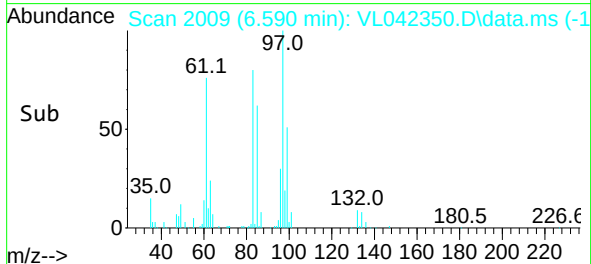
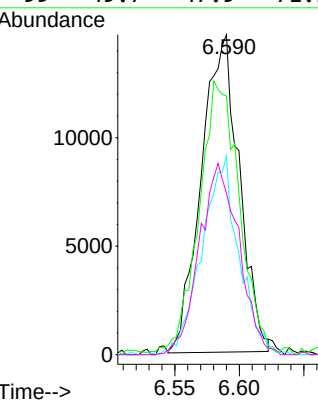
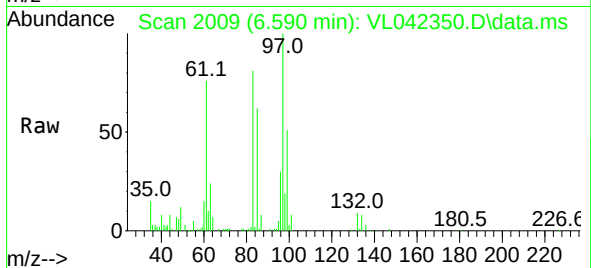
99 49.7 47.9 71.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#48

Dibromochloromethane

Concen: 2.061 ppbv

RT: 7.389 min Scan# 2256

Delta R.T. 0.003 min

Lab File: VL042350.D

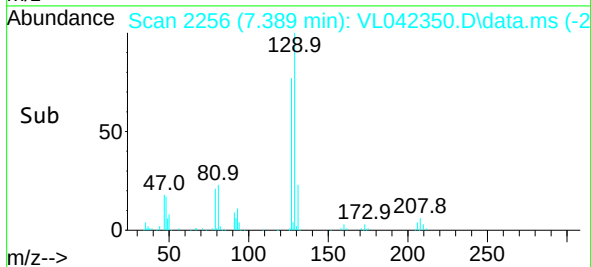
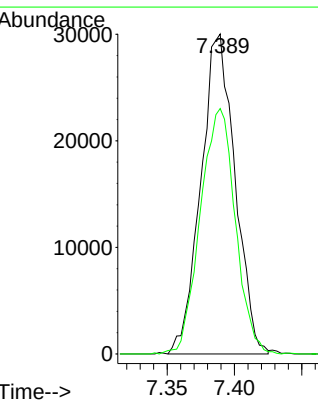
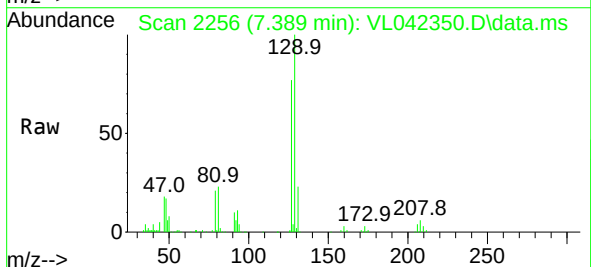
Acq: 17 Apr 2025 10:17

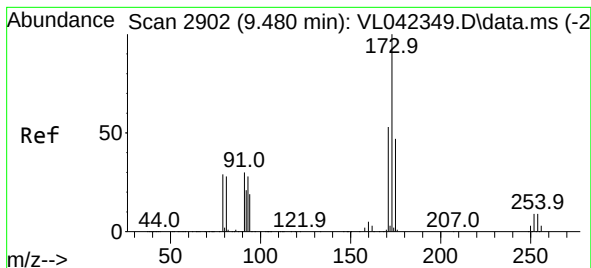
Tgt Ion:129 Resp: 53069

Ion Ratio Lower Upper

129 100

127 78.4 39.1 117.3





#49

Bromoform

Concen: 2.135 ppbv

RT: 9.483 min Scan# 2902

Delta R.T. 0.003 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

Instrument :

MSVOA_L

ClientSampleId :

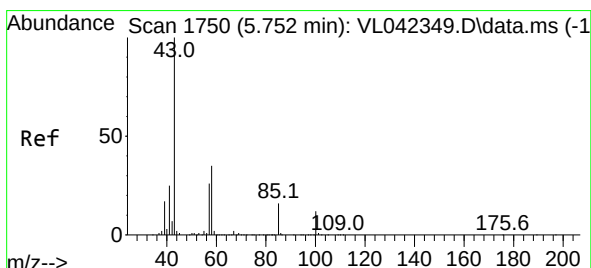
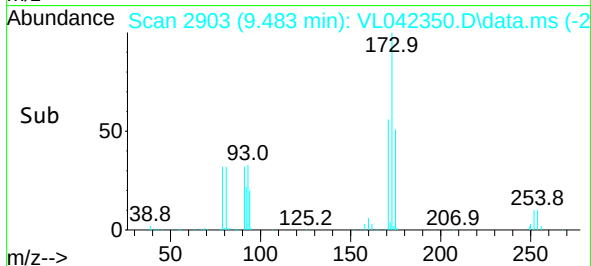
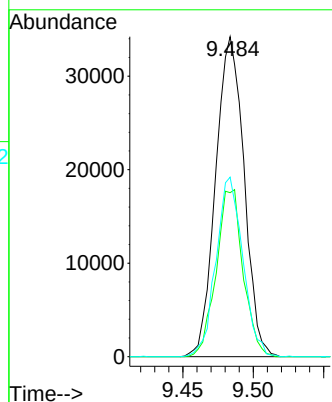
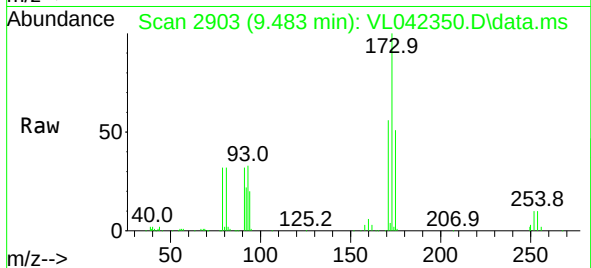
VSTDICC002

Tgt Ion:	173	Resp:	48069
Ion Ratio	Lower	Upper	
173	100		
175	49.4	38.2	57.2
171	53.0	40.9	61.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#50

4-Methyl-2-Pentanone

Concen: 2.180 ppbv

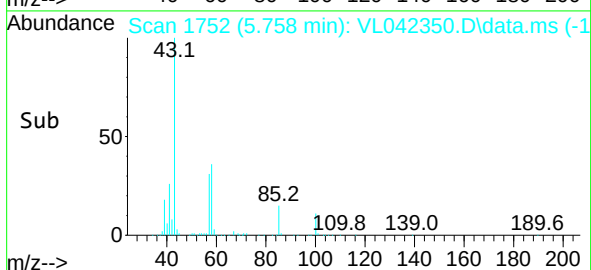
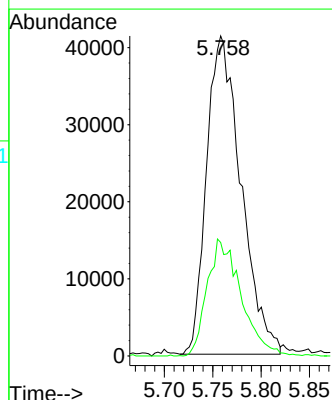
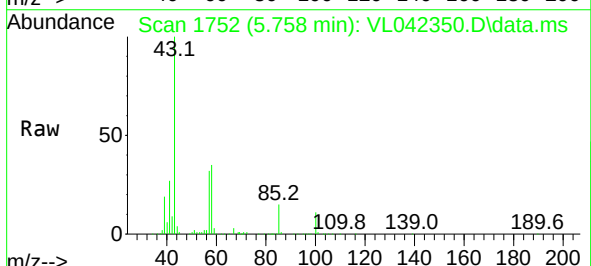
RT: 5.758 min Scan# 1752

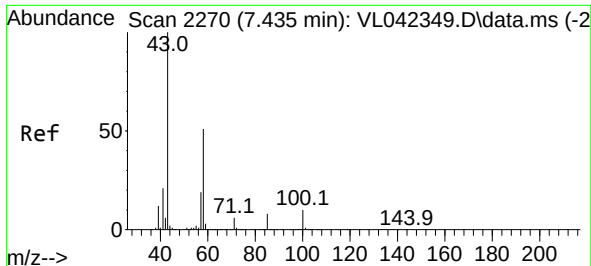
Delta R.T. 0.006 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

Tgt Ion:	43	Resp:	102182
Ion Ratio	Lower	Upper	
43	100		
58	36.3	28.6	43.0





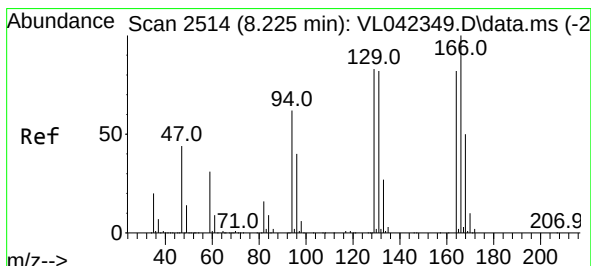
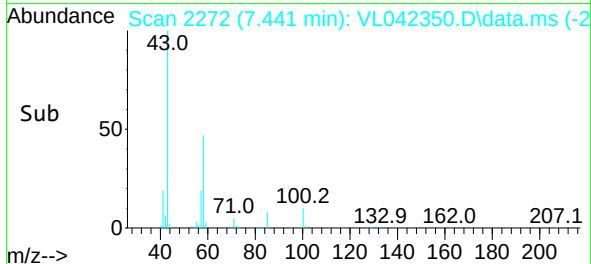
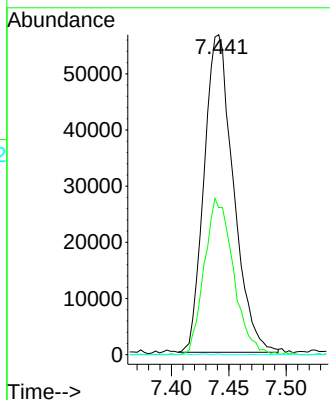
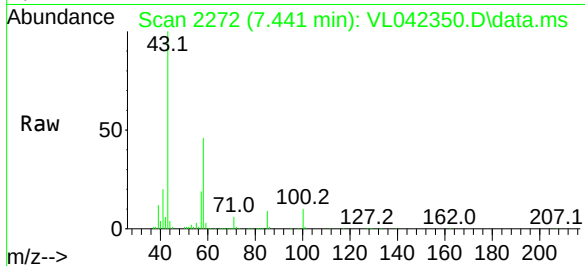
#51
2-Hexanone
Concen: 2.375 ppbv
RT: 7.441 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion: 43 Resp: 10044
Ion Ratio Lower Upper
43 100
58 49.0 40.2 60.4
98 0.1 0.1 0.1

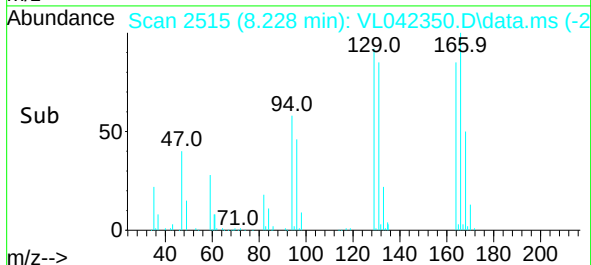
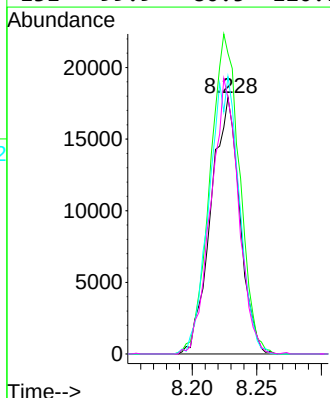
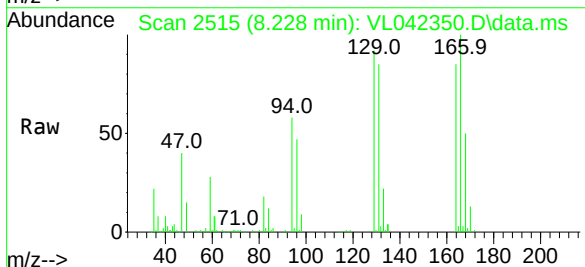
Manual Integrations
APPROVED

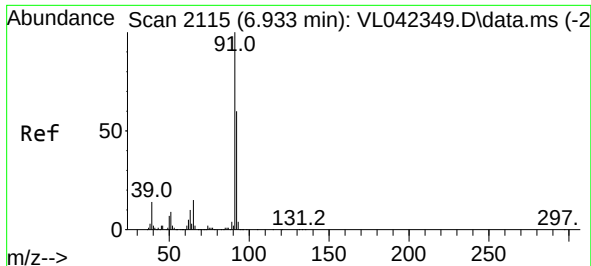
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#52
Tetrachloroethene
Concen: 1.877 ppbv
RT: 8.228 min Scan# 2515
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

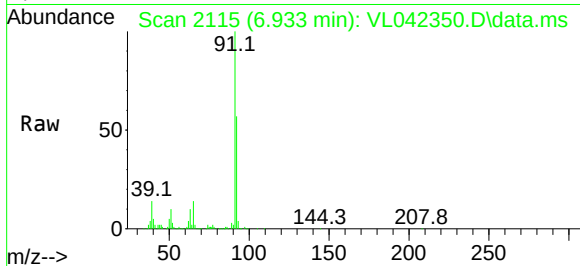
Tgt Ion:164 Resp: 27854
Ion Ratio Lower Upper
164 100
166 117.2 98.2 147.2
129 108.2 81.8 122.8
131 99.9 80.5 120.7





#53
Toluene
Concen: 2.116 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

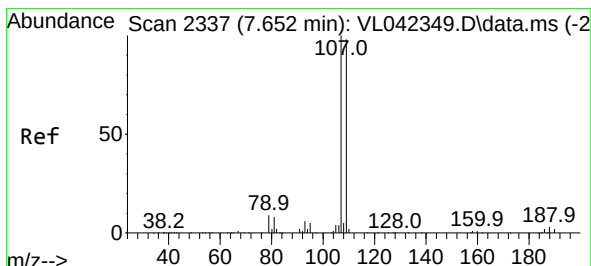
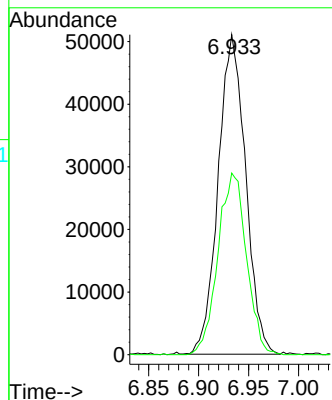
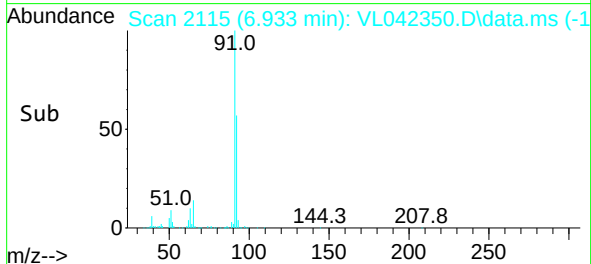
Instrument : MSVOA_L
ClientSampleId : VSTDIC002



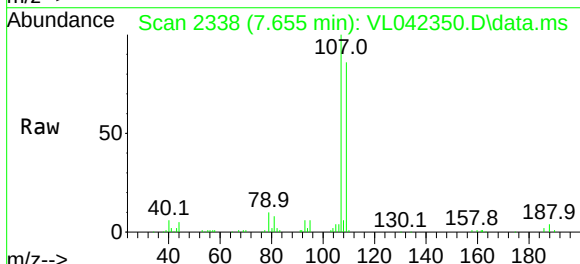
Tgt Ion: 91 Resp: 9749
Ion Ratio Lower Upper
91 100
92 59.1 48.2 72.4

Manual Integrations
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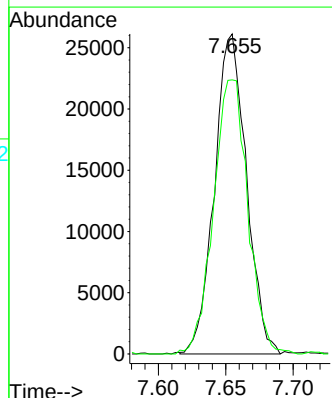
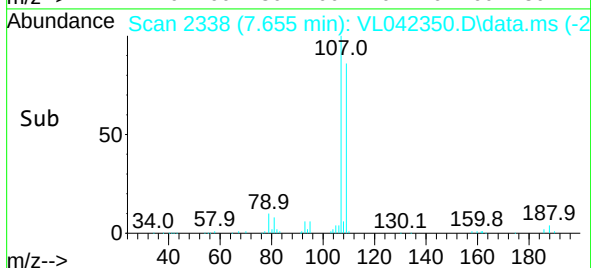
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

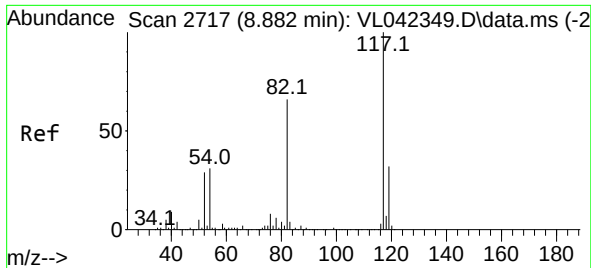


#54
1,2-Dibromoethane
Concen: 2.076 ppbv
RT: 7.655 min Scan# 2338
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17



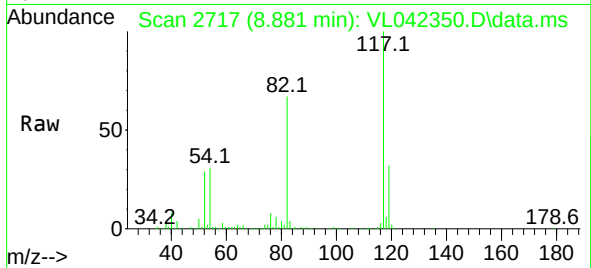
Tgt Ion:107 Resp: 43153
Ion Ratio Lower Upper
107 100
109 84.5 78.2 117.4





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.881 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

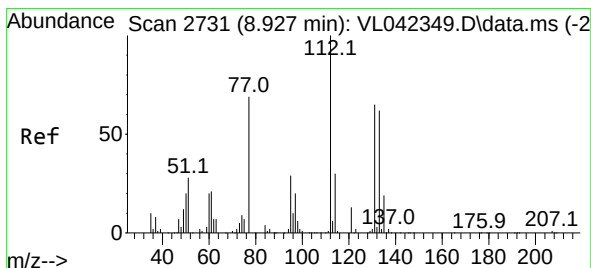
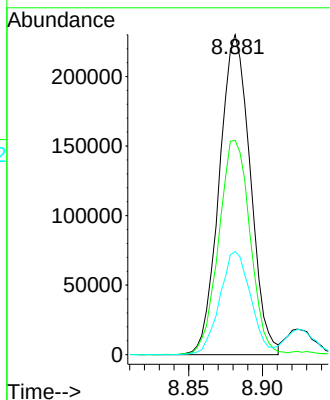
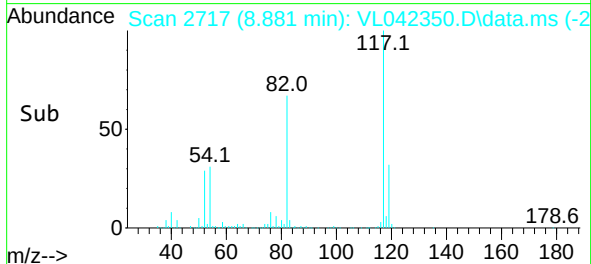
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



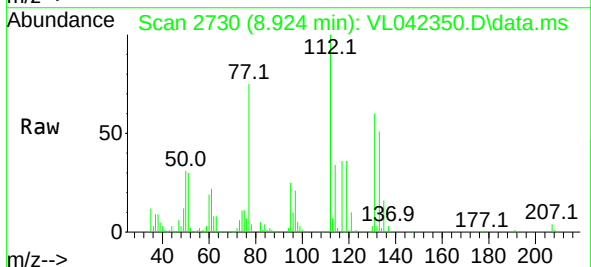
Tgt Ion:117 Resp: 33560
Ion Ratio Lower Upper
117 100
82 68.8 57.8 86.6
119 32.2 25.2 37.8

Manual Integrations
APPROVED

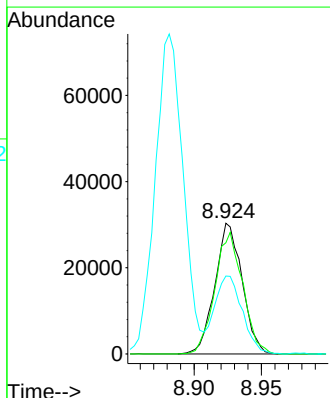
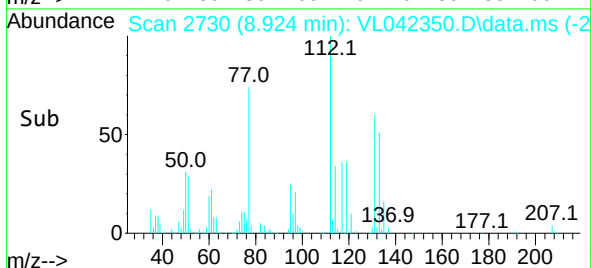
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

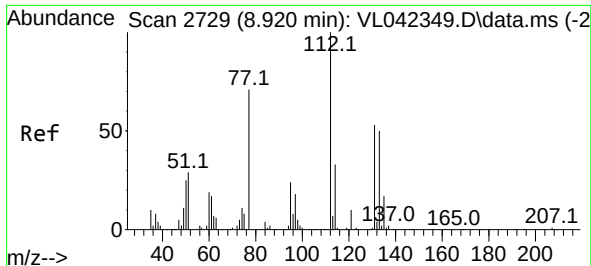


#56
1,1,1,2-Tetrachloroethane
Concen: 2.097 ppbv
RT: 8.924 min Scan# 2730
Delta R.T. -0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17



Tgt Ion:131 Resp: 42601
Ion Ratio Lower Upper
131 100
133 95.3 78.3 117.5
119 53.8 48.7 73.1





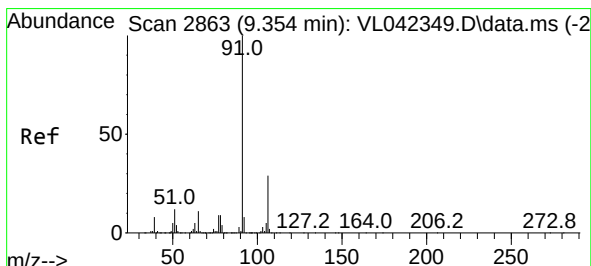
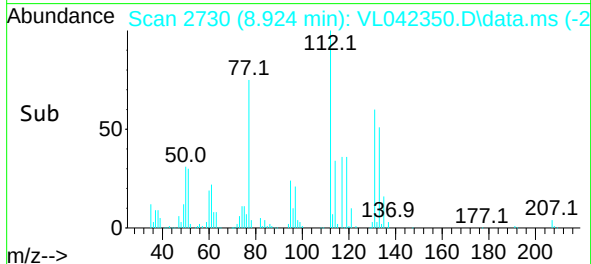
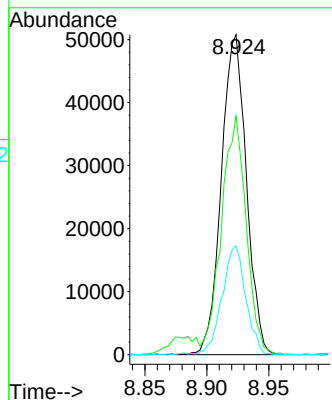
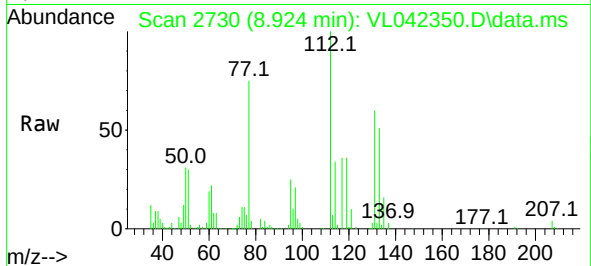
#57
Chlorobenzene
Concen: 2.054 ppbv
RT: 8.924 min Scan# 2729
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion: 112 Resp: 71685
Ion Ratio Lower Upper
112 100
77 74.0 57.8 86.6
114 34.0 29.3 35.9

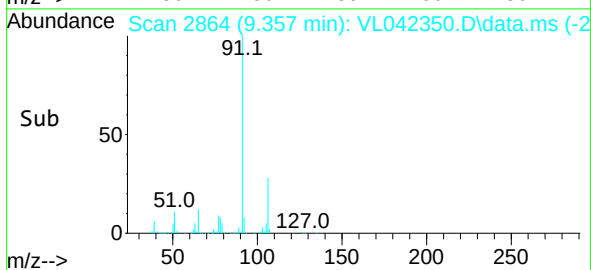
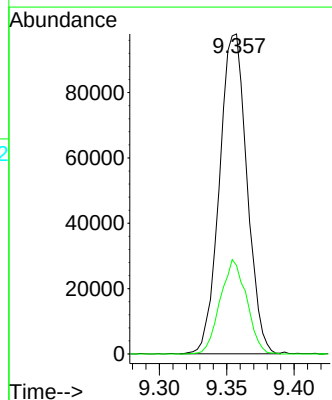
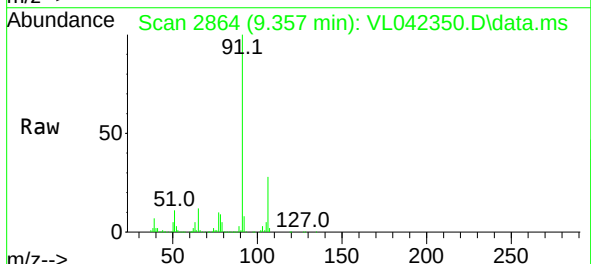
Manual Integrations
APPROVED

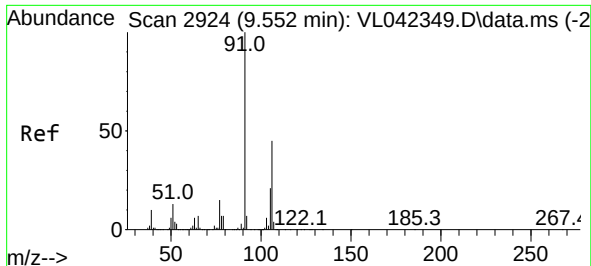
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#58
Ethyl Benzene
Concen: 2.088 ppbv
RT: 9.357 min Scan# 2864
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 91 Resp: 138810
Ion Ratio Lower Upper
91 100
106 27.7 23.0 34.4





#59

m/p-Xylene

Concen: 4.142 ppbv m

RT: 9.532 min Scan# 2918

Delta R.T. -0.019 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

Tgt Ion: 91 Resp: 22254

Ion Ratio Lower Upper

91 100

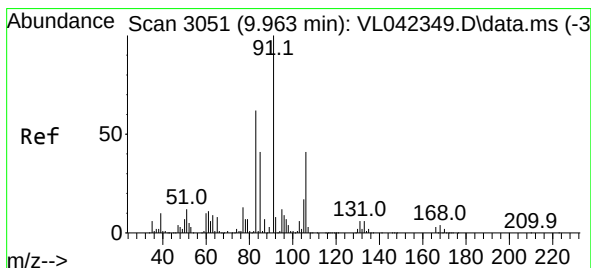
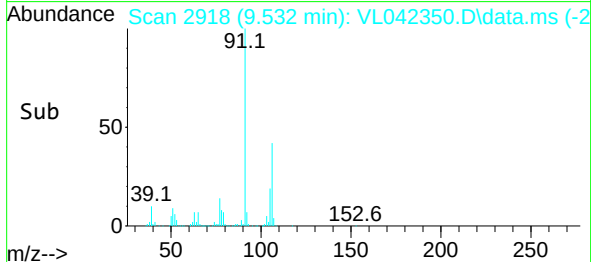
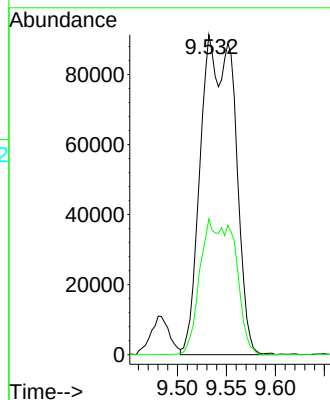
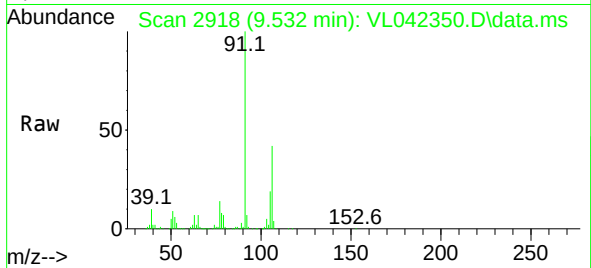
106 0.0 35.4 53.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#60

o-Xylene

Concen: 2.076 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. -0.000 min

Lab File: VL042350.D

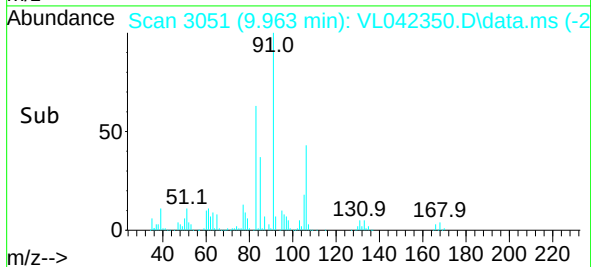
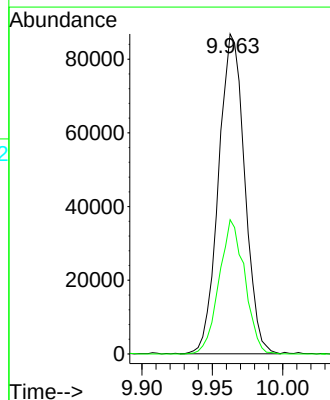
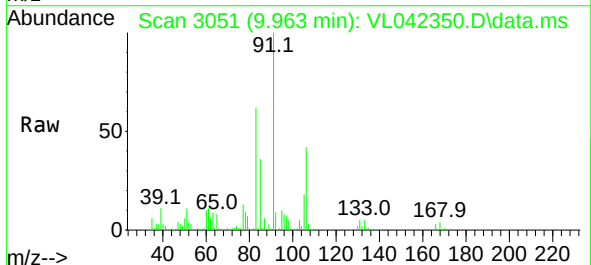
Acq: 17 Apr 2025 10:17

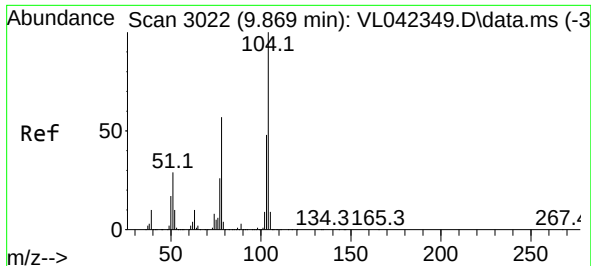
Tgt Ion: 91 Resp: 111972

Ion Ratio Lower Upper

91 100

106 41.2 21.1 63.4





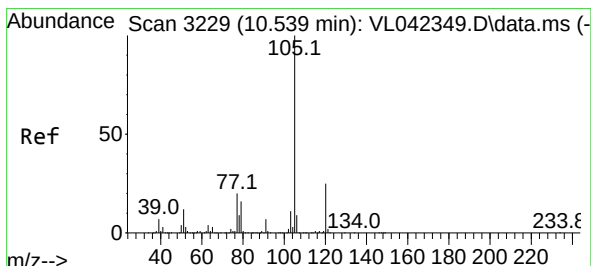
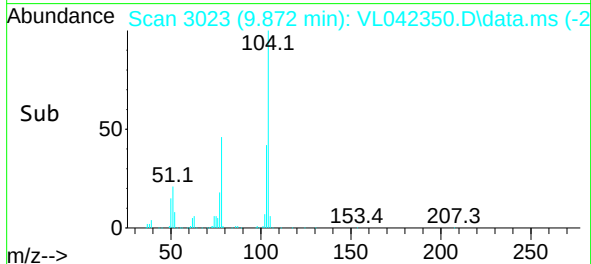
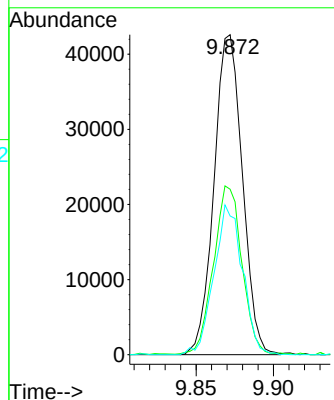
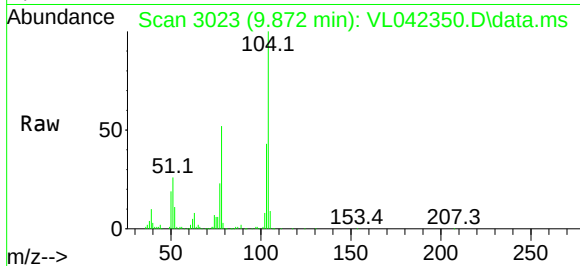
#61
Styrene
Concen: 2.106 ppbv
RT: 9.872 min Scan# 3022
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion:104 Resp: 54229
Ion Ratio Lower Upper
104 100
78 53.4 44.6 66.8
103 47.1 37.4 56.0

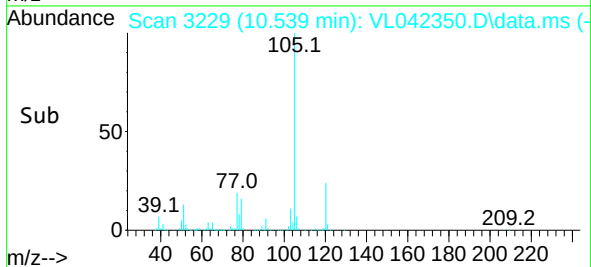
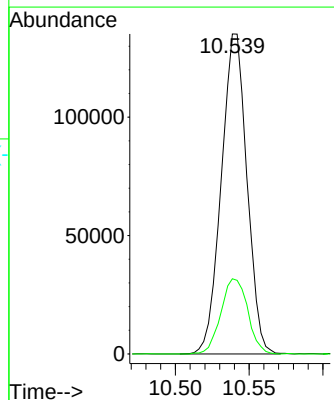
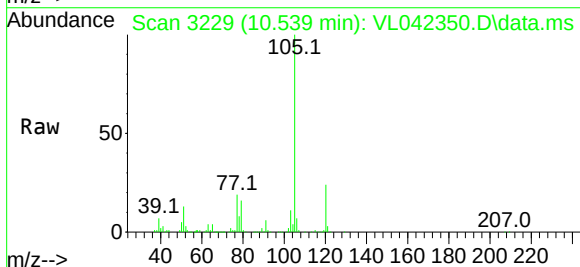
Manual Integrations
APPROVED

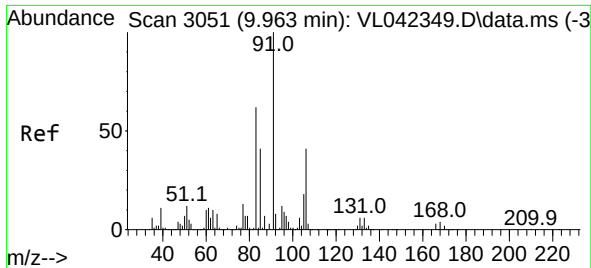
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#62
Isopropylbenzene
Concen: 2.067 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

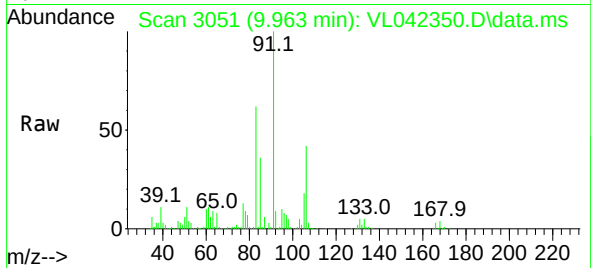
Tgt Ion:105 Resp: 163716
Ion Ratio Lower Upper
105 100
120 24.6 19.8 29.8





#63
1,1,2,2-Tetrachloroethane
Concen: 1.853 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

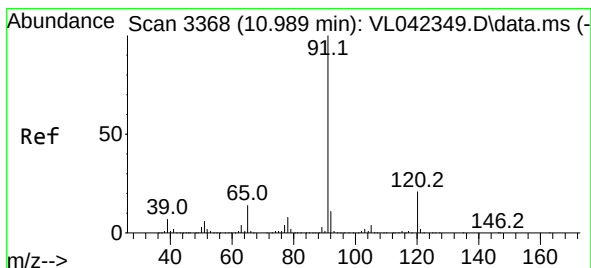
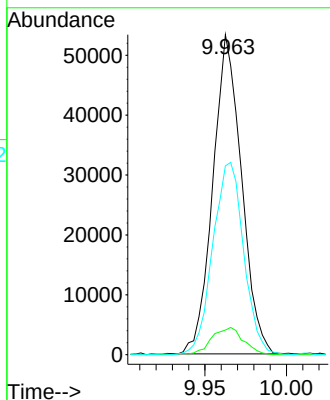
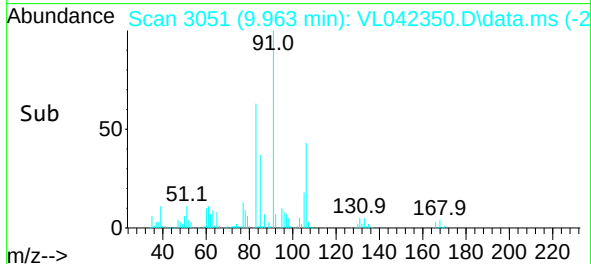
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



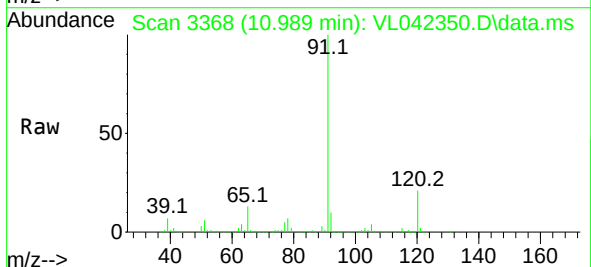
Tgt Ion: 83 Resp: 64952
Ion Ratio Lower Upper
83 100
131 9.6 4.5 13.7
85 65.4 32.4 97.0

Manual Integrations
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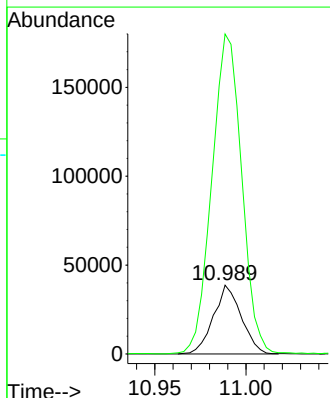
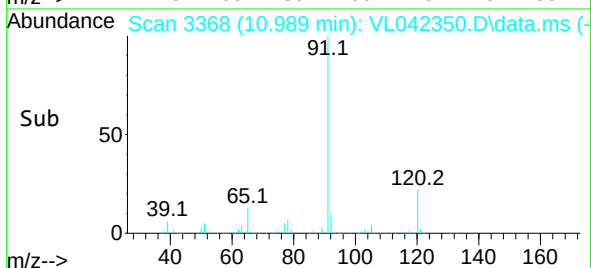
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

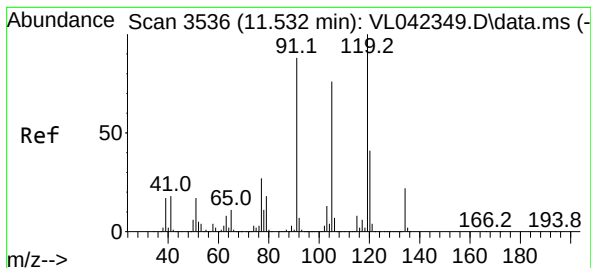


#64
n-propylbenzene
Concen: 2.058 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17



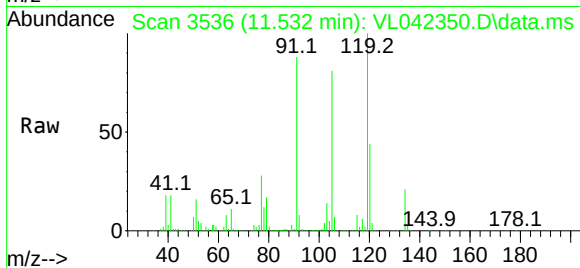
Tgt Ion:120 Resp: 40956
Ion Ratio Lower Upper
120 100
91 502.0 392.4 588.6





#65
tert-Butylbenzene
Concen: 2.135 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

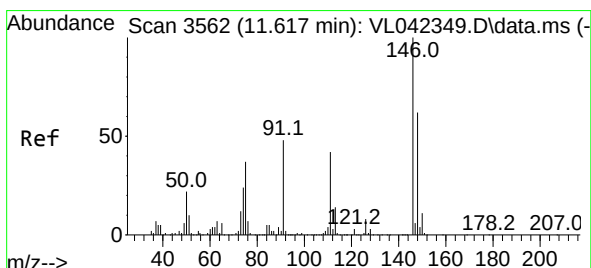
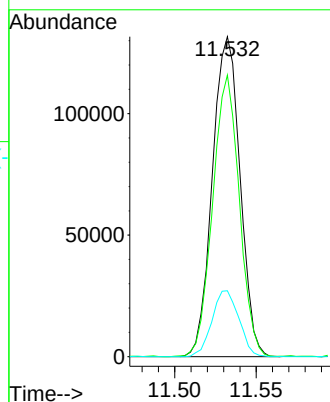
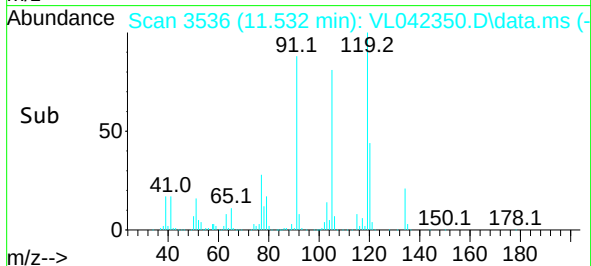
Instrument : MSVOA_1
ClientSampleId : VSTDIC002



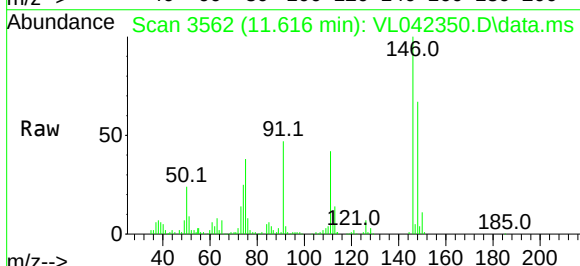
Tgt Ion: 119 Resp: 15540
Ion Ratio Lower Upper
119 100
91 85.0 74.6 111.8
134 20.1 18.8 28.2

Manual Integrations
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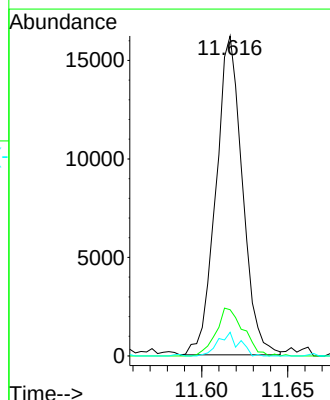
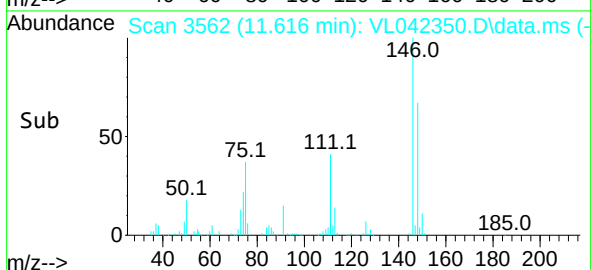
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

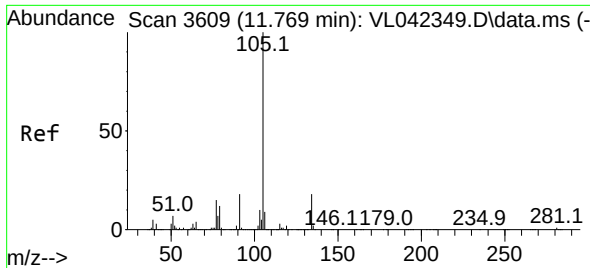


#66
Benzyl Chloride
Concen: 2.163 ppbv
RT: 11.616 min Scan# 3562
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17



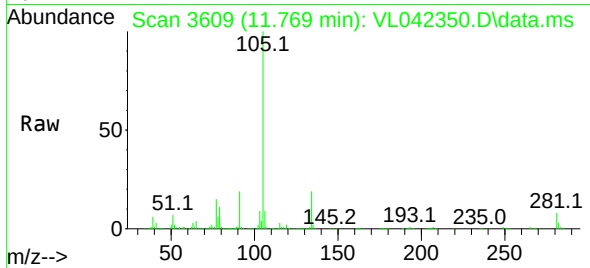
Tgt Ion: 91 Resp: 17300
Ion Ratio Lower Upper
91 100
126 15.6 11.8 17.6
128 6.1 4.5 6.7





#67
 sec-Butylbenzene
 Concen: 2.156 ppbv
 RT: 11.769 min Scan# 3609
 Delta R.T. -0.000 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

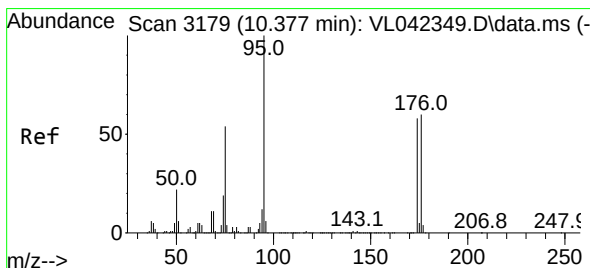
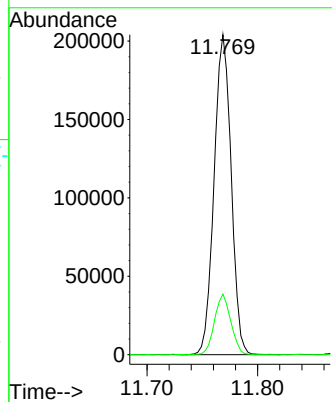
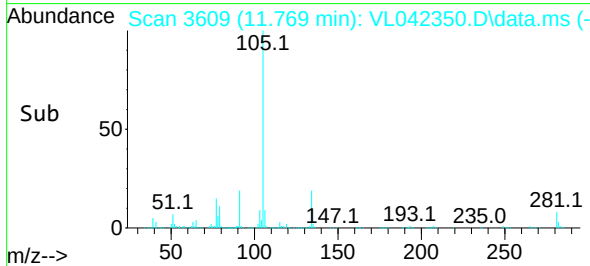
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002



Tgt Ion:105 Resp: 21832
 Ion Ratio Lower Upper
 105 100
 134 18.1 14.6 21.8

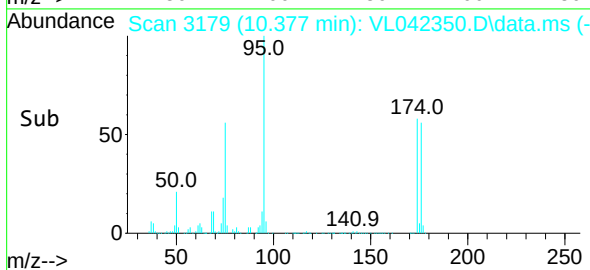
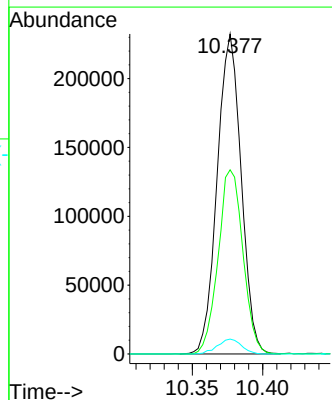
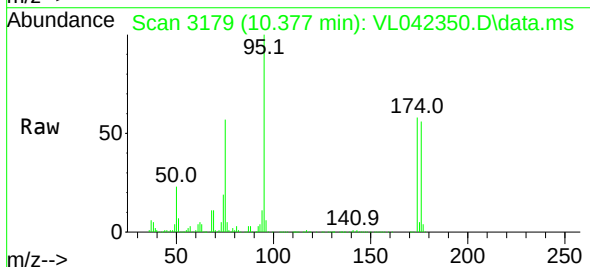
Manual Integrations
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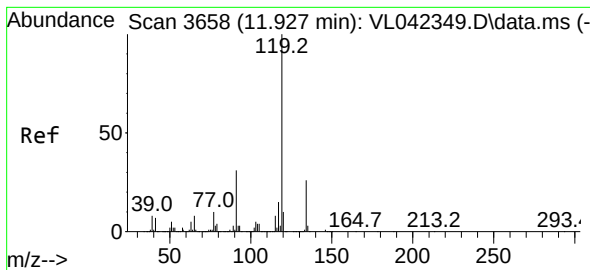
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.998 ppbv
 RT: 10.377 min Scan# 3179
 Delta R.T. -0.000 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

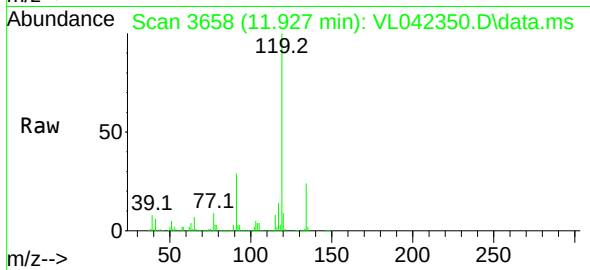
Tgt Ion: 95 Resp: 275715
 Ion Ratio Lower Upper
 95 100
 174 59.6 48.5 72.7
 175 4.7 3.7 5.5





#69
p-Isopropyltoluene
Concen: 2.145 ppbv
RT: 11.927 min Scan# 3658
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

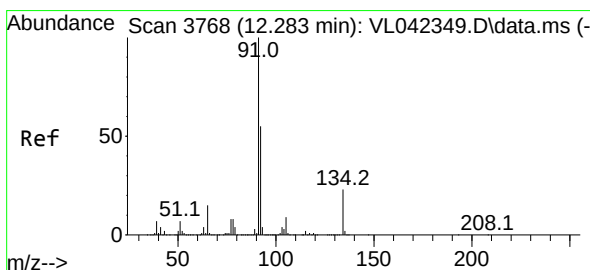
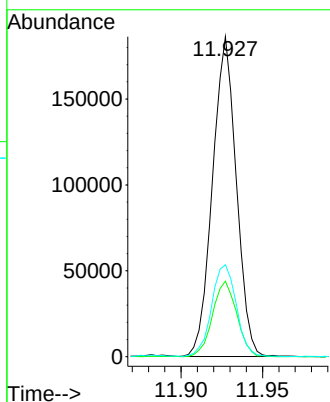
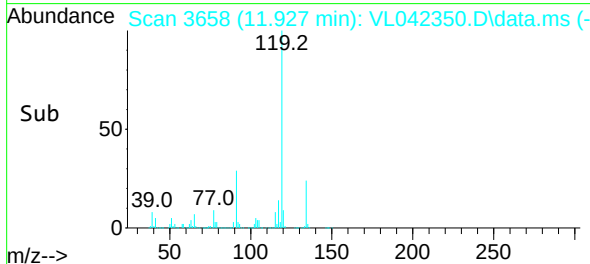
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



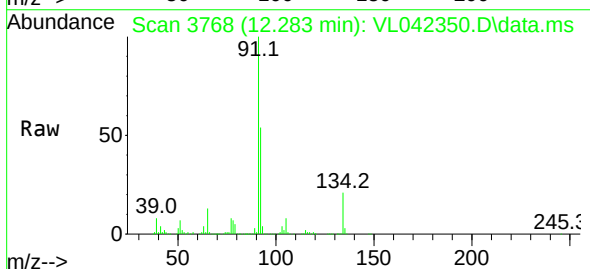
Tgt Ion: 119 Resp: 18865
Ion Ratio Lower Upper
119 100
134 24.2 20.0 30.0
91 30.8 24.4 36.6

Manual Integrations
APPROVED

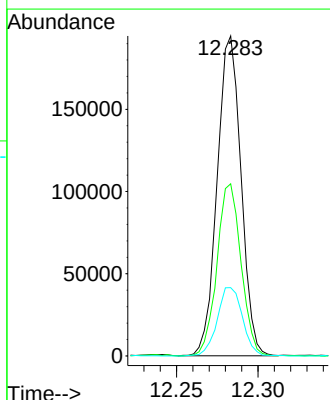
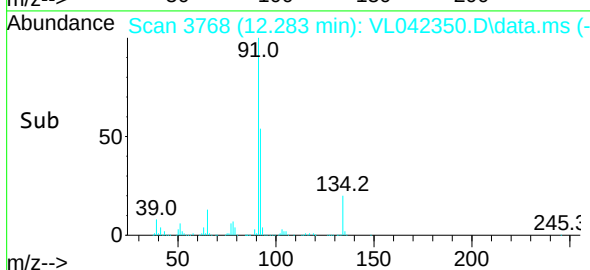
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

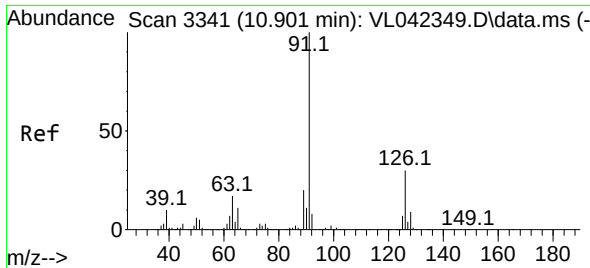


#70
n-Butylbenzene
Concen: 2.164 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17



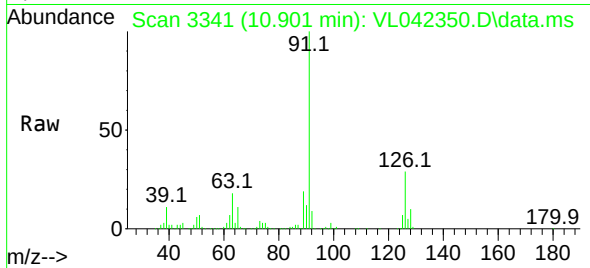
Tgt Ion: 91 Resp: 198221
Ion Ratio Lower Upper
91 100
92 54.4 44.2 66.4
134 22.6 18.2 27.4





#71
2-Chlorotoluene
Concen: 2.075 ppbv
RT: 10.901 min Scan# 3341
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

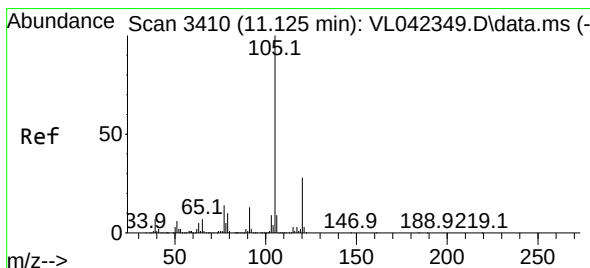
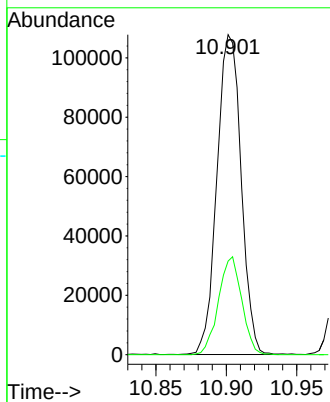
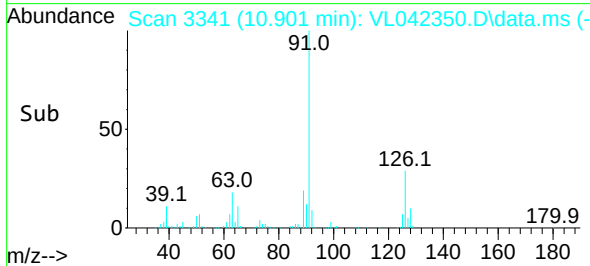
Instrument : MSVOA_L
ClientSampleId : VSTDIC002



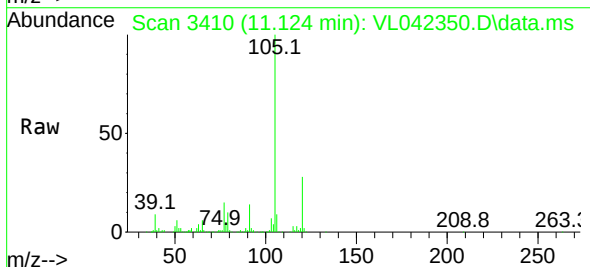
Tgt Ion: 91 Resp: 128858
Ion Ratio Lower Upper
91 100
126 29.5 11.4 45.4

Manual Integrations
APPROVED

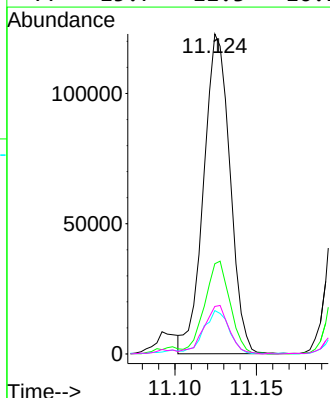
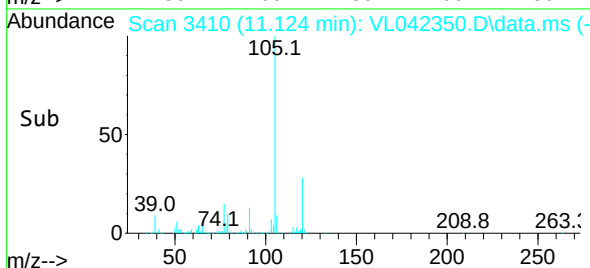
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

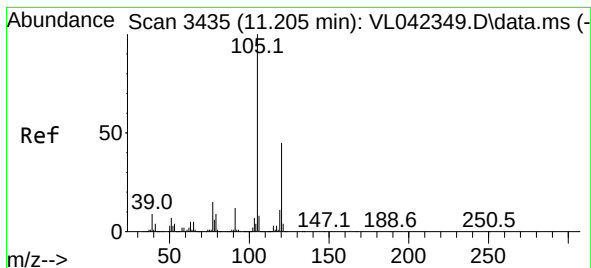


#72
4-Ethyltoluene
Concen: 2.091 ppbv
RT: 11.124 min Scan# 3410
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17



Tgt Ion:105 Resp: 137872
Ion Ratio Lower Upper
105 100
120 30.1 23.2 34.8
91 14.4 10.4 15.6
77 15.7 11.3 16.9





#73

1,3,5-Trimethylbenzene

Concen: 2.123 ppbv

RT: 11.205 min Scan# 3435

Delta R.T. -0.000 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion:105 Resp: 123580

Ion Ratio Lower Upper

105 100

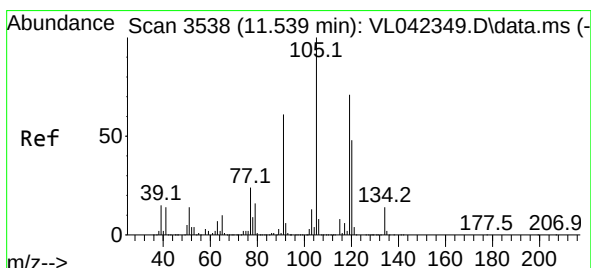
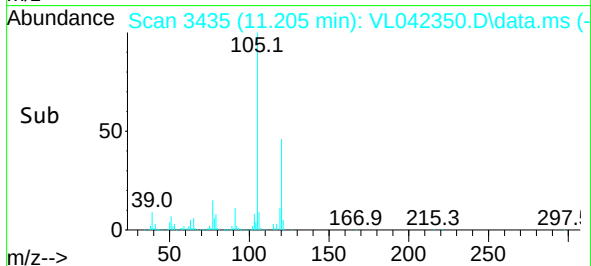
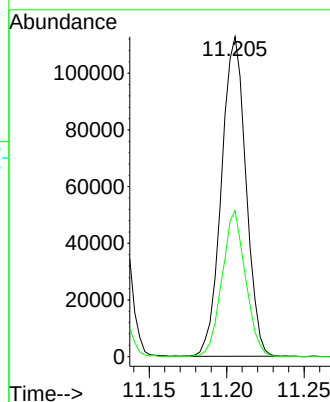
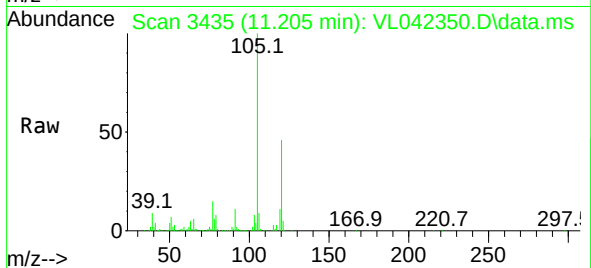
120 45.7 35.6 53.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#74

1,2,4-Trimethylbenzene

Concen: 2.140 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. -0.000 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

Tgt Ion:105 Resp: 145510

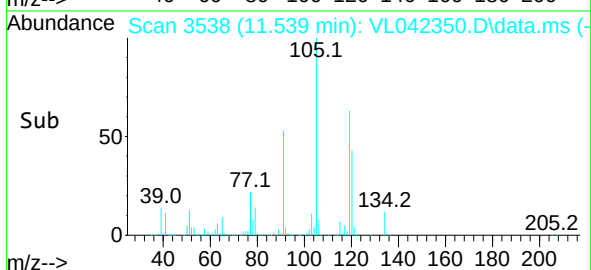
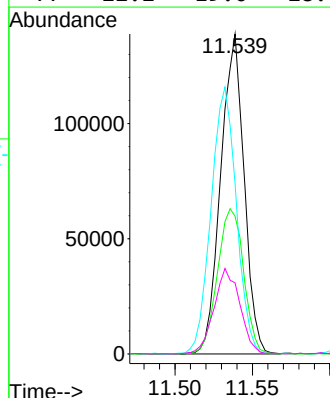
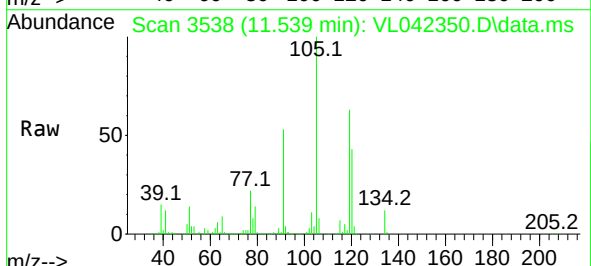
Ion Ratio Lower Upper

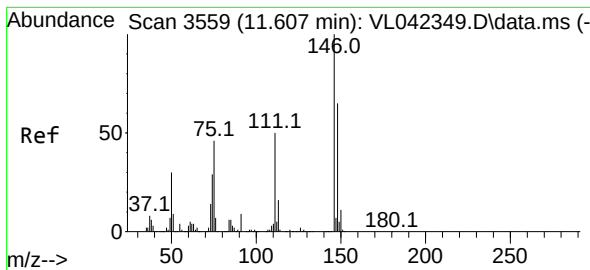
105 100

120 43.0 38.1 57.1

91 53.1 48.8 73.2

77 22.2 19.0 28.4





#75

1,3-Dichlorobenzene

Concen: 2.124 ppbv

RT: 11.607 min Scan# 3559

Delta R.T. -0.000 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

Instrument :

MSVOA_L

ClientSampleId :

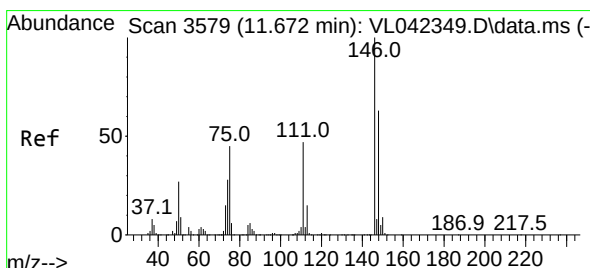
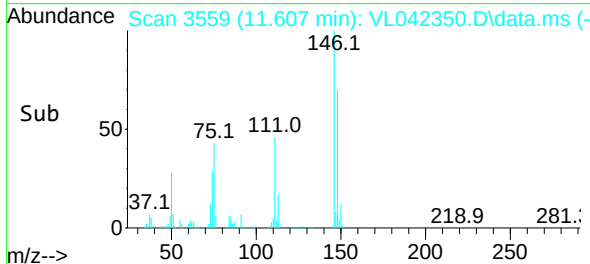
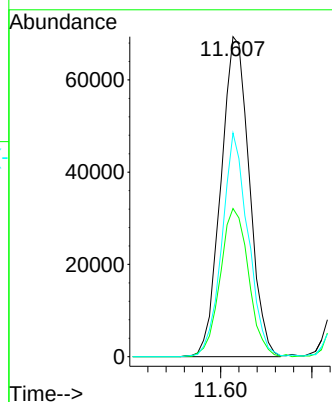
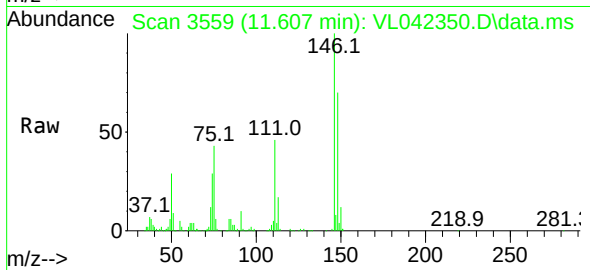
VSTDICC002

Tgt Ion:	146	Resp:	7508
Ion Ratio	Lower	Upper	
146	100		
111	46.3	24.3	72.8
148	64.3	31.6	94.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#76

1,4-Dichlorobenzene

Concen: 2.120 ppbv

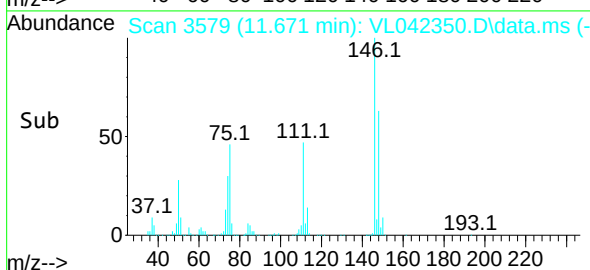
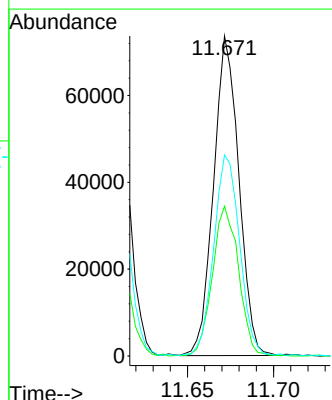
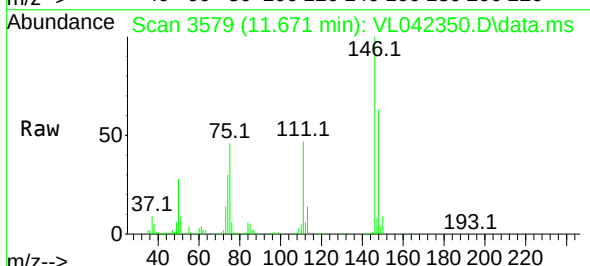
RT: 11.671 min Scan# 3579

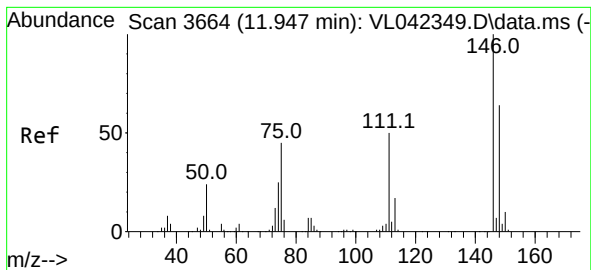
Delta R.T. -0.000 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

Tgt Ion:	146	Resp:	75323
Ion Ratio	Lower	Upper	
146	100		
111	48.4	24.2	72.6
148	65.1	32.1	96.5





#77

1,2-Dichlorobenzene

Concen: 2.176 ppbv

RT: 11.947 min Scan# 3664

Delta R.T. -0.000 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

Instrument :

MSVOA_L

ClientSampleId :

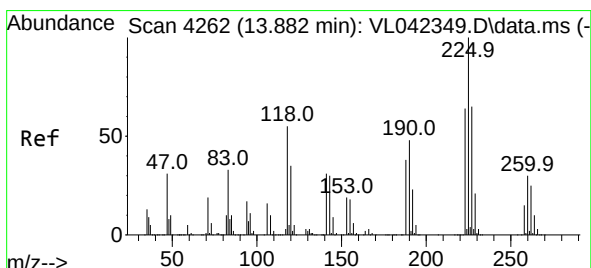
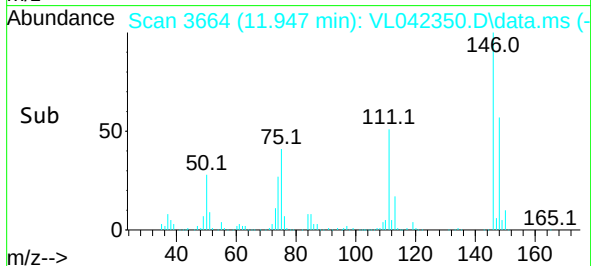
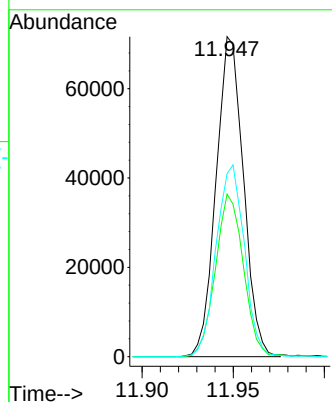
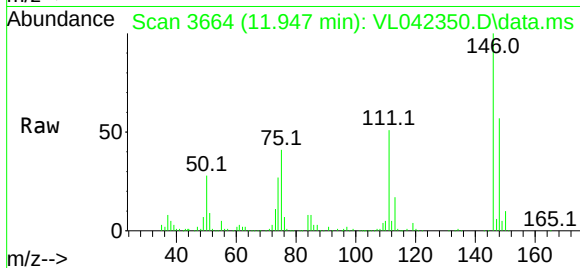
VSTDIC002

Tgt Ion:	146	Resp:	74780
Ion Ratio	Lower	Upper	
146	100		
111	52.0	25.3	75.9
148	61.8	31.5	94.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#78

Hexachloro-1,3-Butadiene

Concen: 2.194 ppbv

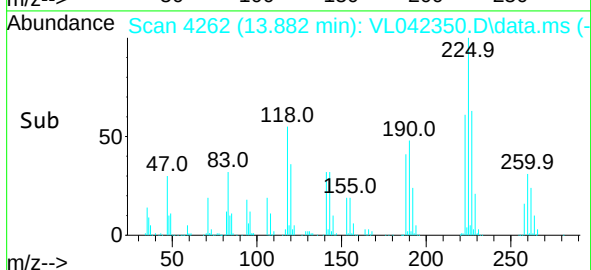
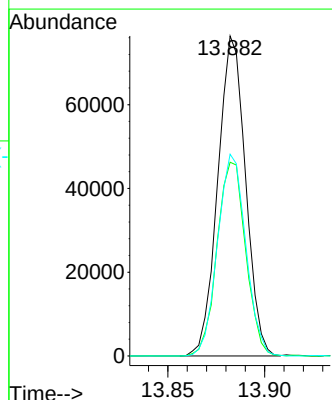
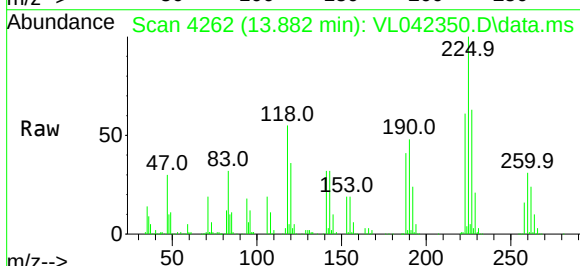
RT: 13.882 min Scan# 4262

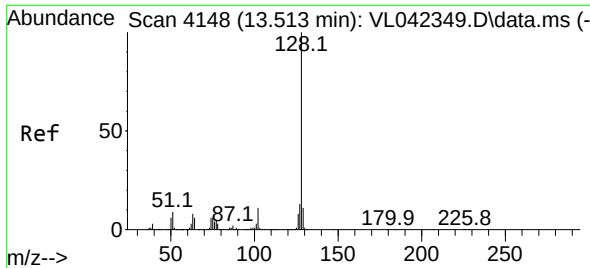
Delta R.T. -0.000 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

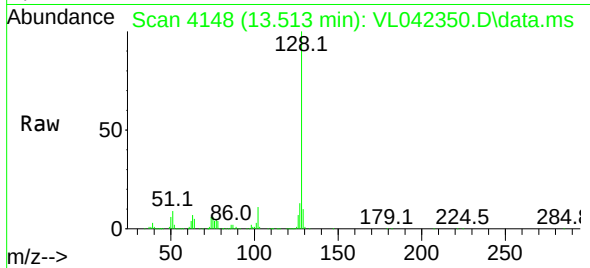
Tgt Ion:	225	Resp:	76158
Ion Ratio	Lower	Upper	
225	100		
223	62.6	50.3	75.5
227	64.1	51.5	77.3





#79
Naphthalene
Concen: 2.401 ppbv
RT: 13.513 min Scan# 4148
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

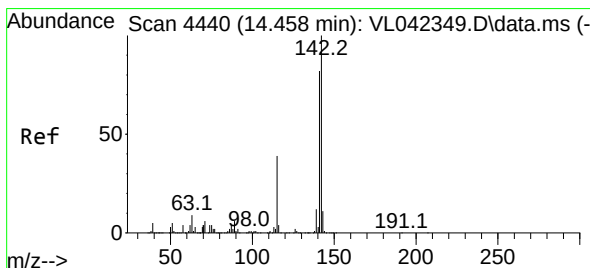
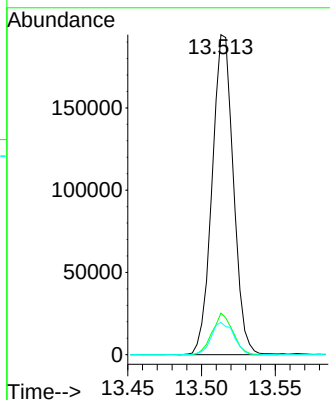
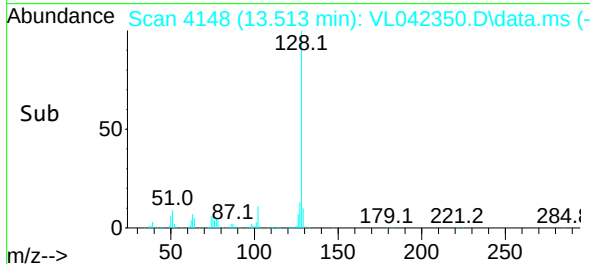
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



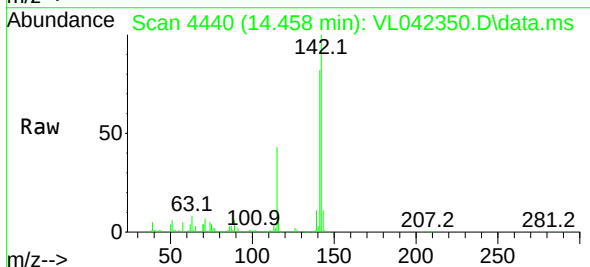
Tgt Ion:128 Resp: 195233
Ion Ratio Lower Upper
128 100
127 13.0 10.6 15.8
129 10.1 8.6 12.8

Manual Integrations
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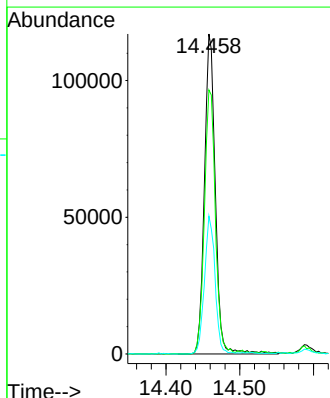
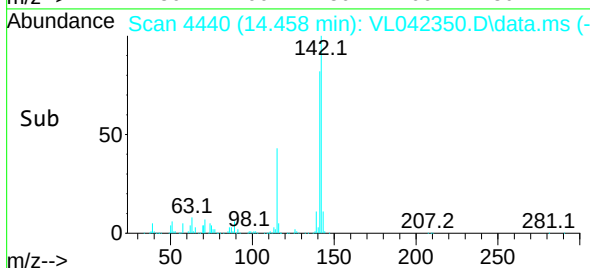
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

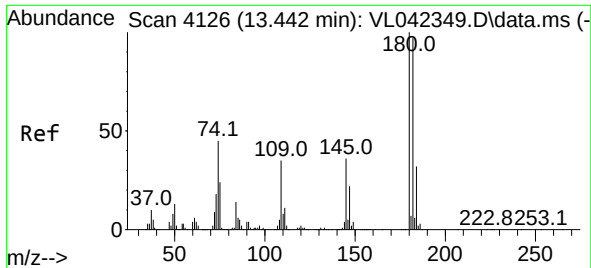


#80
Naphthalene,2-methyl-
Concen: 2.574 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17



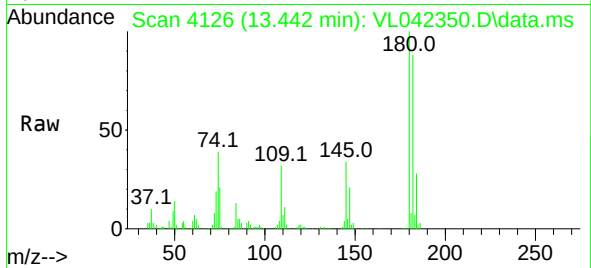
Tgt Ion:142 Resp: 119262
Ion Ratio Lower Upper
142 100
141 84.7 66.8 100.2
115 42.2 33.4 50.2





#81
 1,2,4-Trichlorobenzene
 Concen: 2.353 ppbv
 RT: 13.442 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

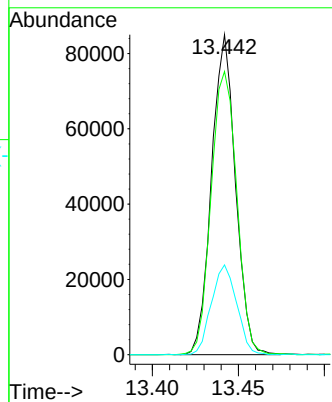
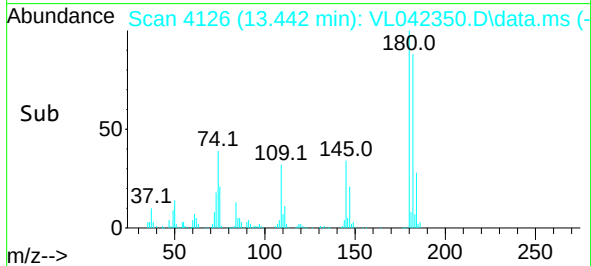
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002



Tgt Ion:180 Resp: 82150
 Ion Ratio Lower Upper
 180 100
 182 95.1 76.8 115.2
 184 29.8 24.6 36.8

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042351.D
 Acq On : 17 Apr 2025 10:48
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 01:27:33 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025

QLast Update : Fri Apr 18 01:24:29 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.791	49	124177	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	359907	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	329090	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 269087 9.950 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 99.500%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	22816	1.040	ppbv	93
3) Chlorodifluoromethane	1.476	51	20573	0.985	ppbv	97
4) Chloromethane	1.535	50	9008	1.038	ppbv	99
5) Vinyl Chloride	1.580	62	8807	0.932	ppbv	98
6) Bromomethane	1.671	94	4099	1.001	ppbv	91
7) Chloroethane	1.706	64	3559	1.041	ppbv	90
8) Dichlorotetrafluoroethane	1.554	85	19251	1.022	ppbv	100
9) Propene	1.486	41	9892	1.040	ppbv	92
10) Heptane	4.982	43	28507m	1.114	ppbv	
11) Trichlorofluoromethane	1.878	101	22428	1.075	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.140	101	17865	1.047	ppbv	98
13) Ethanol	1.722	45	1730m	2.225	ppbv	
14) Bromoethene	1.784	108	6766	1.052	ppbv #	89
15) Acetone	1.839	43	23537	1.158	ppbv	97
16) 1,3-Butadiene	1.609	39	10377m	1.087	ppbv	
17) tert-Butyl alcohol	2.043	59	26477	1.051	ppbv #	90
18) 1,1-Dichloroethene	2.036	96	7890	0.962	ppbv	94
19) Isopropyl Alcohol	1.888	45	12175	1.078	ppbv #	39
20) Methylene Chloride	2.062	84	9046	1.136	ppbv	87
21) Allyl Chloride	2.098	41	15057	1.073	ppbv	91
22) trans-1,2-Dichloroethene	2.344	96	9421	1.038	ppbv	96
23) Vinyl Acetate	2.467	43	9234	1.122	ppbv #	90
24) 1,1-Dichloroethane	2.409	63	18236	1.058	ppbv	99
25) Ethyl Acetate	2.842	43	51494	1.027	ppbv #	97
26) Hexane	2.826	57	21350	1.053	ppbv	95
27) Carbon Disulfide	2.153	76	20739	0.955	ppbv #	1
28) Methyl tert-Butyl Ether	2.444	73	14164	1.066	ppbv #	85
29) Chloroform	2.852	83	28973	1.011	ppbv	100
30) Cyclohexane	3.862	84	16547m	1.013	ppbv	
31) cis-1,2-Dichloroethene	2.723	61	19904	1.032	ppbv	97
32) 1,1,1-Trichloroethane	3.376	97	31653	1.030	ppbv	98
34) 2-Butanone	2.564	43	29735	1.045	ppbv	99
35) Carbon Tetrachloride	3.768	117	29875	0.917	ppbv	94
36) Benzene	3.661	78	38707	0.997	ppbv	95
37) 1,2-Dichloroethane	3.224	62	23284	0.999	ppbv	97
38) Trichloroethene	4.551	130	16119	0.947	ppbv	96
39) 1,2-Dichloropropane	4.318	63	14866	1.027	ppbv	96
40) 1,4-Dioxane	4.597	88	8737m	1.114	ppbv	
41) Tetrahydrofuran	3.062	42	17259	1.049	ppbv	96
42) Bromodichloromethane	4.490	83	32721	1.009	ppbv #	98
43) Methyl Methacrylate	4.885	69	18699m	1.073	ppbv	
44) 2,2,4-Trimethylpentane	4.642	57	68946m	1.027	ppbv	
45) t-1,3-Dichloropropene	6.416	75	18347m	1.026	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042351.D
 Acq On : 17 Apr 2025 10:48
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 01:27:33 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

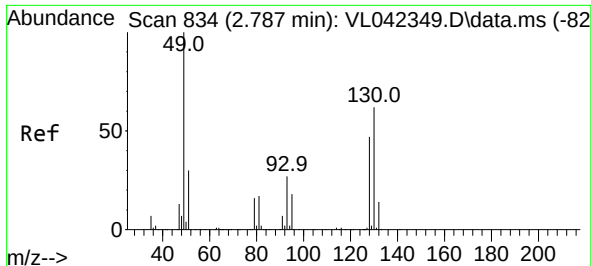
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Fri Apr 18 01:24:29 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.603	75	22189m	1.015	ppbv	
47) 1,1,2-Trichloroethane	6.587	97	15457m	1.048	ppbv	
48) Dibromochloromethane	7.390	129	25948	0.997	ppbv	100
49) Bromoform	9.484	173	22413	0.984	ppbv	98
50) 4-Methyl-2-Pentanone	5.765	43	49725	1.049	ppbv	97
51) 2-Hexanone	7.445	43	47178	1.103	ppbv	99
52) Tetrachloroethene	8.228	164	14154	0.943	ppbv	93
53) Toluene	6.940	91	46611	1.001	ppbv	100
54) 1,2-Dibromoethane	7.658	107	21780	1.036	ppbv	93
56) 1,1,1,2-Tetrachloroethane	8.927	131	21052	1.057	ppbv	95
57) Chlorobenzene	8.921	112	35113	1.026	ppbv #	95
58) Ethyl Benzene	9.354	91	68703	1.054	ppbv	96
59) m/p-Xylene	9.552	91	110702m	2.101	ppbv	
60) o-Xylene	9.966	91	55831	1.056	ppbv	99
61) Styrene	9.872	104	25544	1.012	ppbv	100
62) Isopropylbenzene	10.542	105	81286	1.047	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.966	83	32410	0.943	ppbv	99
64) n-propylbenzene	10.989	120	19898	1.019	ppbv	90
65) tert-Butylbenzene	11.533	119	77598	1.087	ppbv	92
66) Benzyl Chloride	11.617	91	7864	1.003	ppbv #	91
67) sec-Butylbenzene	11.769	105	105919	1.067	ppbv	97
69) p-Isopropyltoluene	11.928	119	92733	1.075	ppbv	97
70) n-Butylbenzene	12.284	91	96306	1.072	ppbv	99
71) 2-Chlorotoluene	10.905	91	63321	1.040	ppbv	99
72) 4-Ethyltoluene	11.128	105	69698	1.078	ppbv	99
73) 1,3,5-Trimethylbenzene	11.206	105	60927	1.067	ppbv	99
74) 1,2,4-Trimethylbenzene	11.539	105	73888	1.108	ppbv	95
75) 1,3-Dichlorobenzene	11.610	146	36877	1.064	ppbv	98
76) 1,4-Dichlorobenzene	11.675	146	36692	1.053	ppbv	98
77) 1,2-Dichlorobenzene	11.950	146	35977	1.068	ppbv	97
78) Hexachloro-1,3-Butadiene	13.886	225	37377	1.098	ppbv	99
79) Naphthalene	13.517	128	90710	1.138	ppbv	99
80) Naphthalene,2-methyl-	14.462	142	50487	1.111	ppbv	98
81) 1,2,4-Trichlorobenzene	13.442	180	36764	1.074	ppbv	99

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



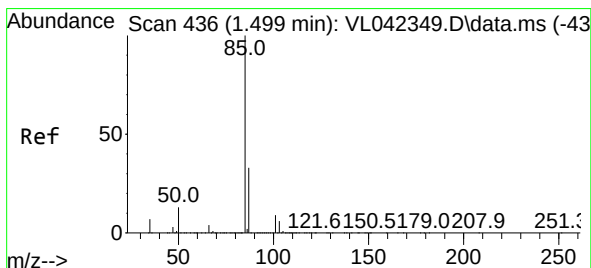
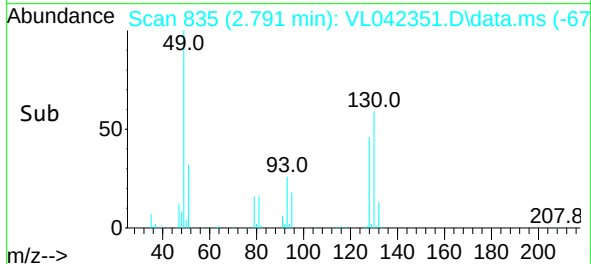
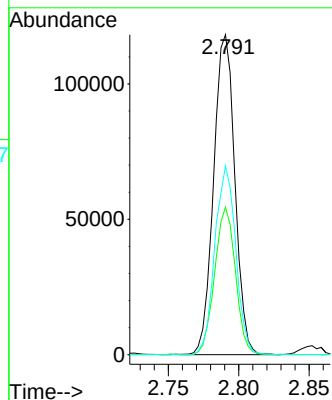
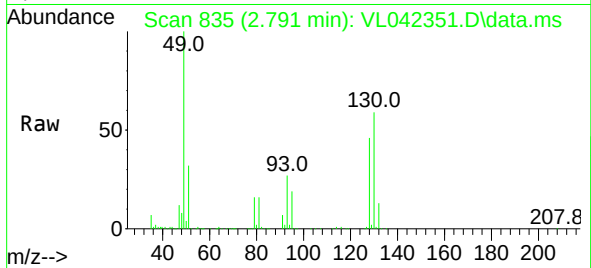
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.791 min Scan# 81
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 49 Resp: 12417
Ion Ratio Lower Upper
49 100
128 45.2 22.8 68.4
130 58.1 29.3 88.0

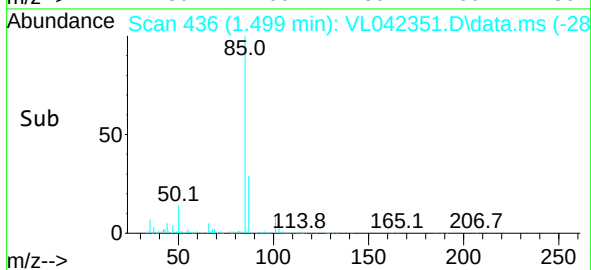
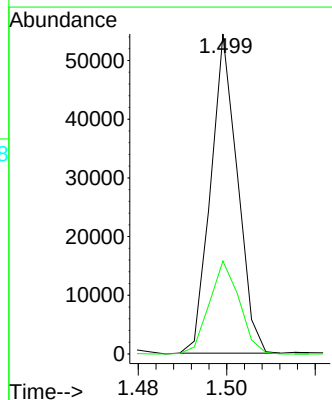
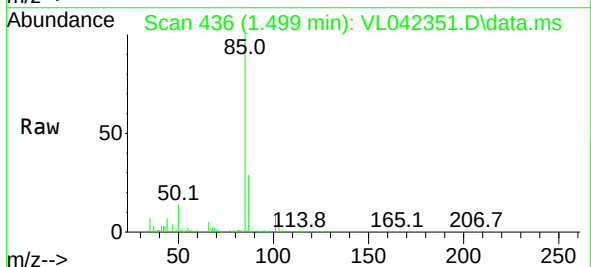
Manual Integrations
APPROVED

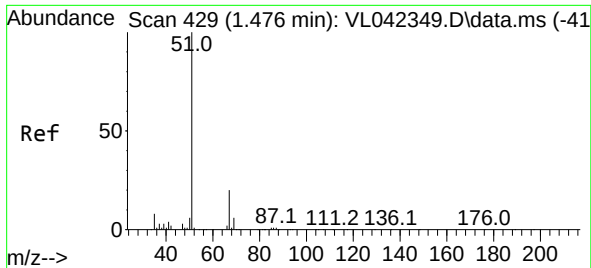
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#2
Dichlorodifluoromethane
Concen: 1.040 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

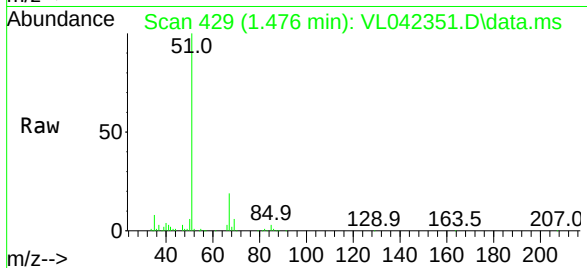
Tgt Ion: 85 Resp: 22816
Ion Ratio Lower Upper
85 100
87 29.1 26.6 39.8





#3
Chlorodifluoromethane
Concen: 0.985 ppbv
RT: 1.476 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

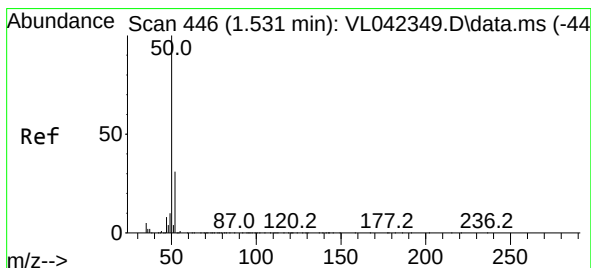
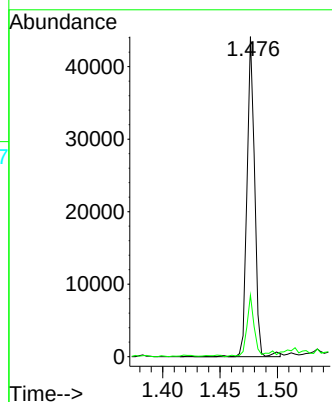
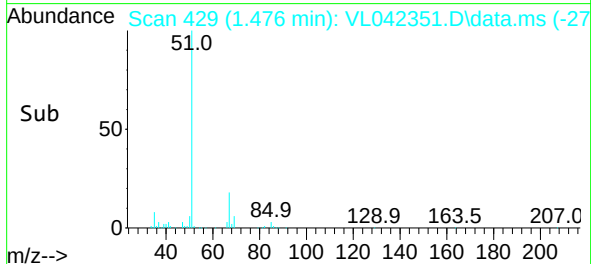
Instrument :
MSVOA_L
ClientSampleId :
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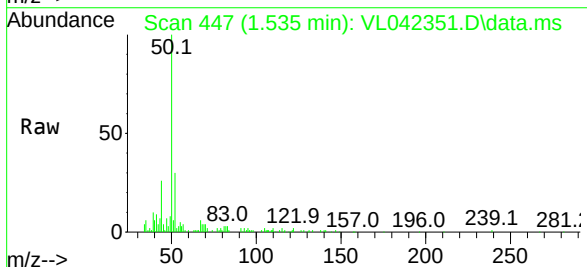
Tgt Ion: 51 Resp: 2057
Ion Ratio Lower Upper
51 100
67 19.1 16.2 24.4

Manual Integrations
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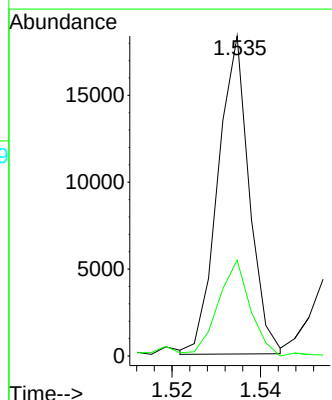
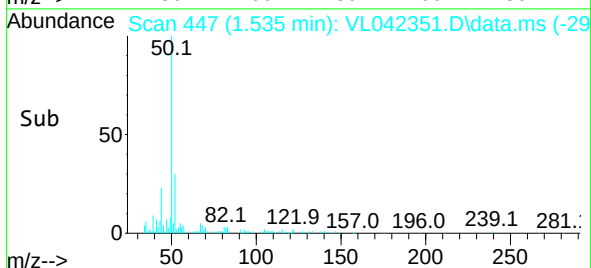
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

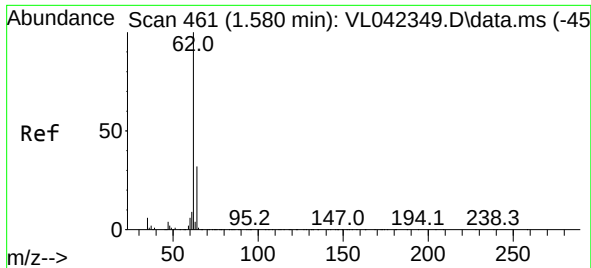


#4
Chloromethane
Concen: 1.038 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48



Tgt Ion: 50 Resp: 9008
Ion Ratio Lower Upper
50 100
52 30.4 24.7 37.1





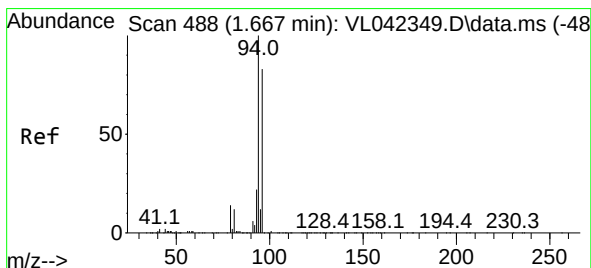
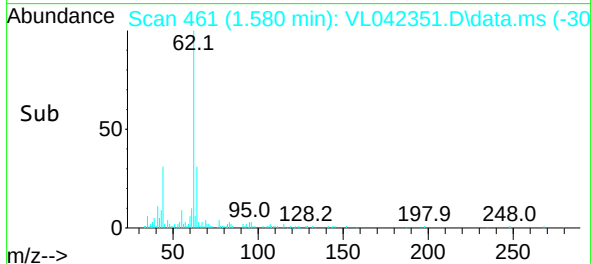
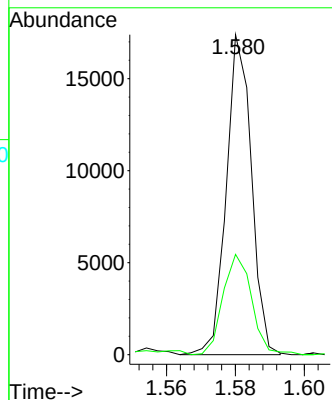
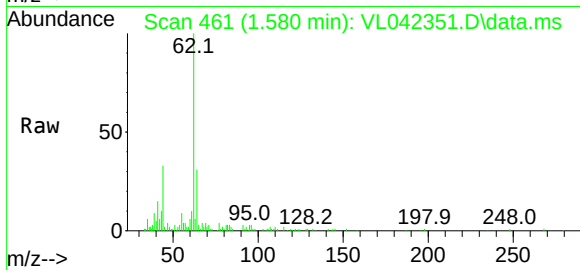
#5
 Vinyl Chloride
 Concen: 0.932 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. 0.000 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tgt Ion: 62 Resp: 880
 Ion Ratio Lower Upper
 62 100
 64 30.5 25.4 38.0

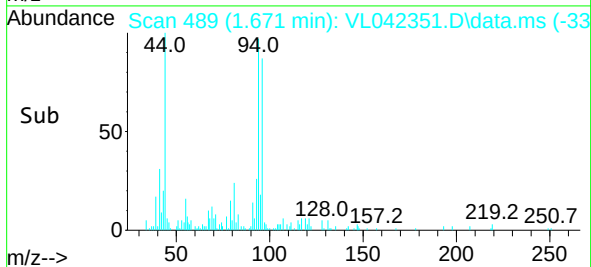
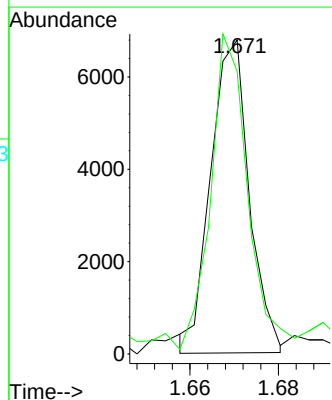
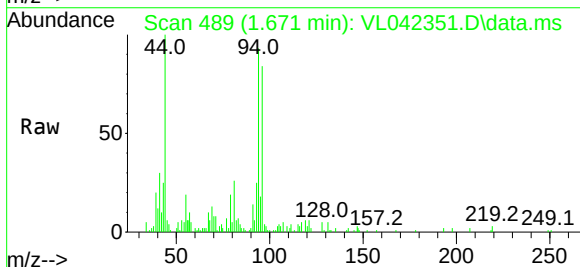
Manual Integrations
 APPROVED

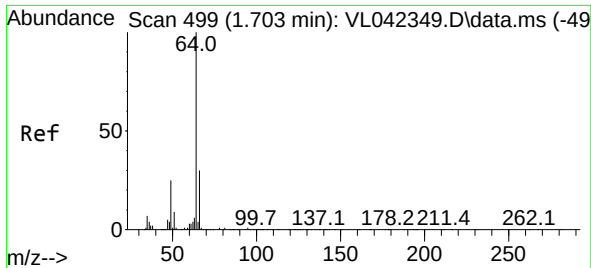
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#6
 Bromomethane
 Concen: 1.001 ppbv
 RT: 1.671 min Scan# 489
 Delta R.T. 0.004 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48

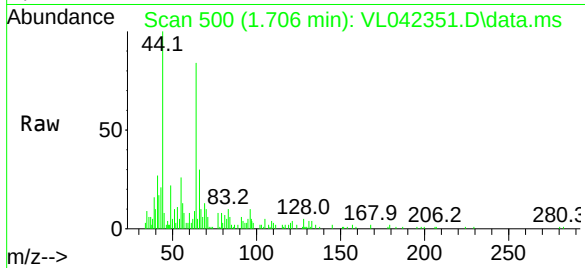
Tgt Ion: 94 Resp: 4099
 Ion Ratio Lower Upper
 94 100
 96 91.0 66.2 99.2





#7
Chloroethane
Concen: 1.041 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

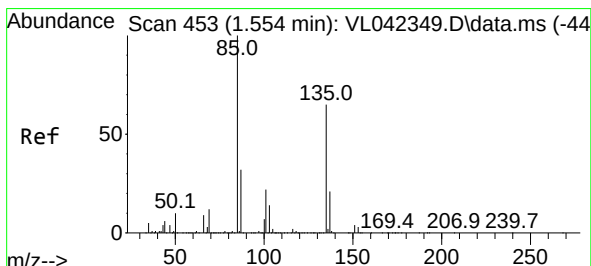
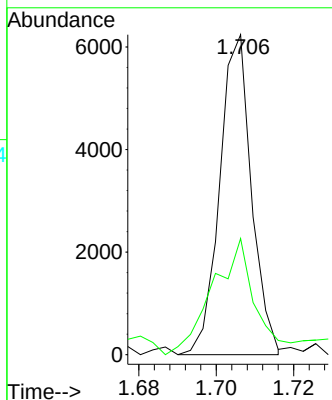
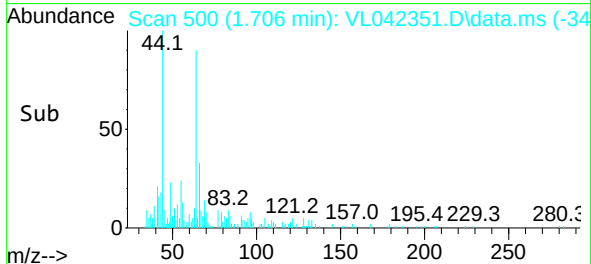
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



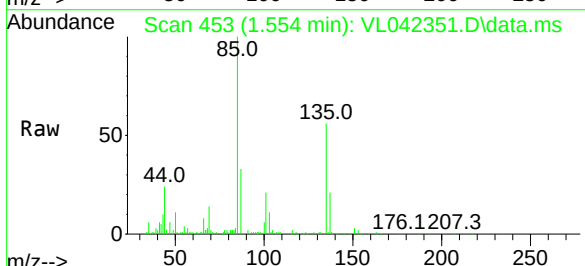
Tgt Ion: 64 Resp: 3559
Ion Ratio Lower Upper
64 100
66 36.3 24.6 37.0

Manual Integrations
APPROVED

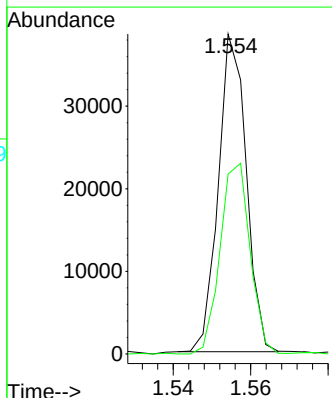
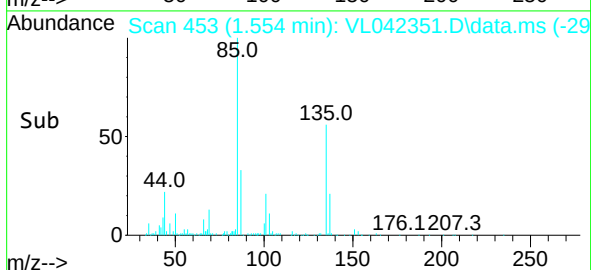
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

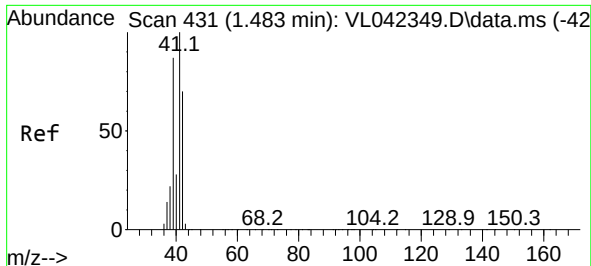


#8
Dichlorotetrafluoroethane
Concen: 1.022 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48



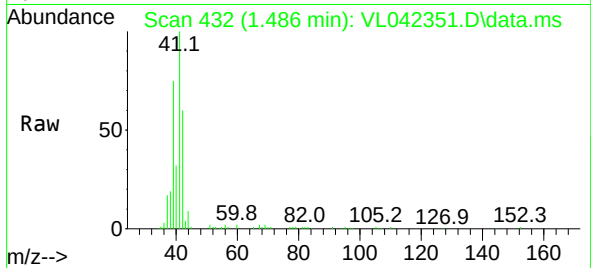
Tgt Ion: 85 Resp: 19251
Ion Ratio Lower Upper
85 100
135 65.2 52.2 78.2





#9
Propene
Concen: 1.040 ppbv
RT: 1.486 min Scan# 41
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

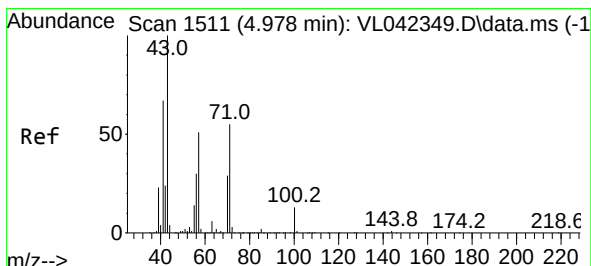
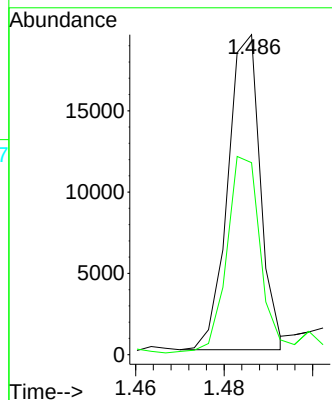
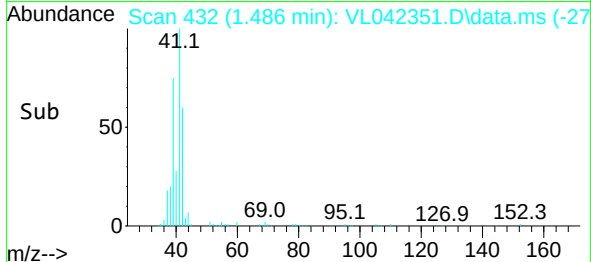
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



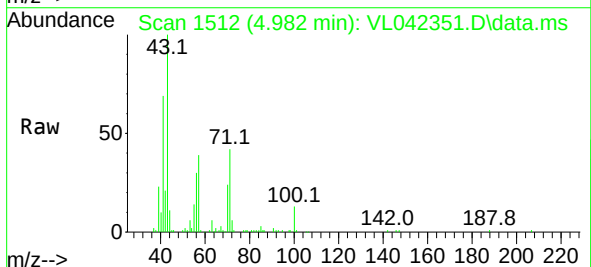
Tgt Ion: 41 Resp: 989
Ion Ratio Lower Upper
41 100
42 77.2 56.2 84.4

Manual Integrations
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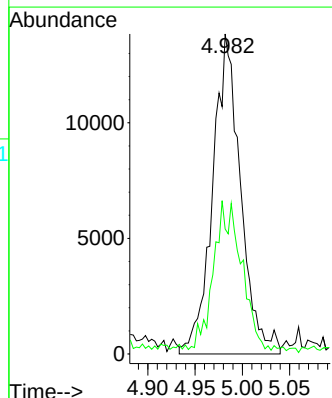
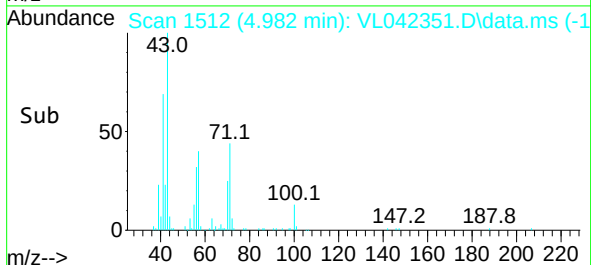
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

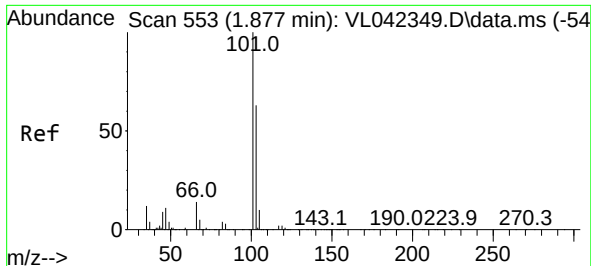


#10
Heptane
Concen: 1.114 ppbv m
RT: 4.982 min Scan# 1512
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48



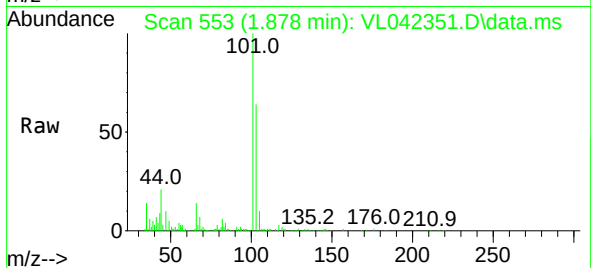
Tgt Ion: 43 Resp: 28507
Ion Ratio Lower Upper
43 100
57 48.1 39.9 59.9





#11
 Trichlorofluoromethane
 Concen: 1.075 ppbv
 RT: 1.878 min Scan# 51
 Delta R.T. 0.000 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48

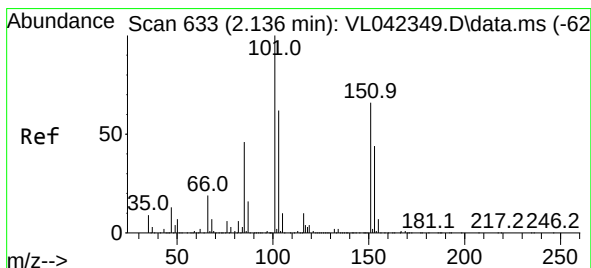
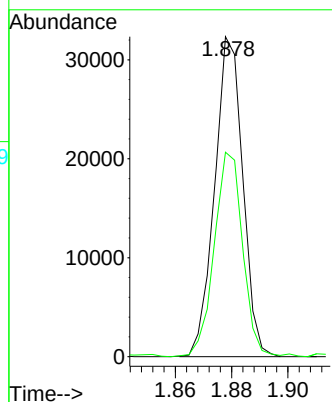
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001



Tgt Ion:101 Resp: 22428
 Ion Ratio Lower Upper
 101 100
 103 63.6 50.1 75.1

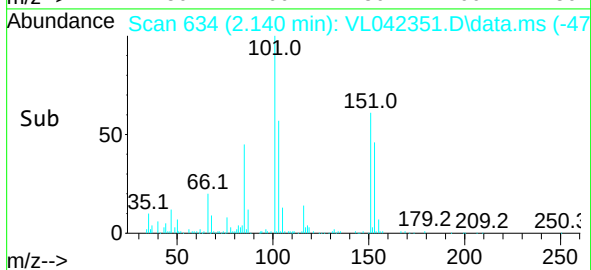
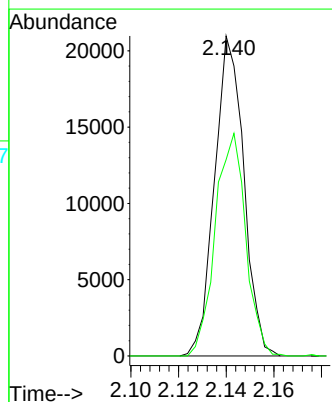
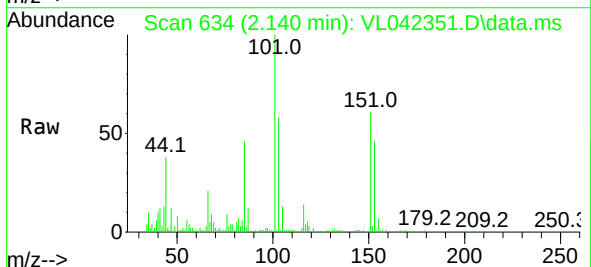
Manual Integrations
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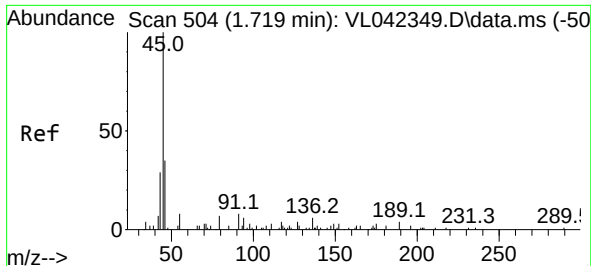
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 1.047 ppbv
 RT: 2.140 min Scan# 634
 Delta R.T. 0.004 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48

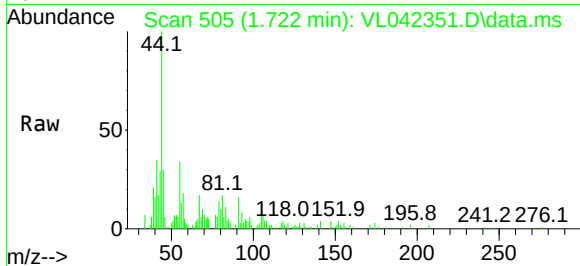
Tgt Ion:101 Resp: 17865
 Ion Ratio Lower Upper
 101 100
 151 72.6 57.0 85.6





#13
Ethanol
Concen: 2.225 ppbv m
RT: 1.722 min Scan# 504
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

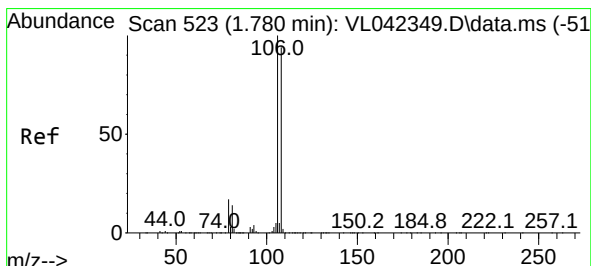
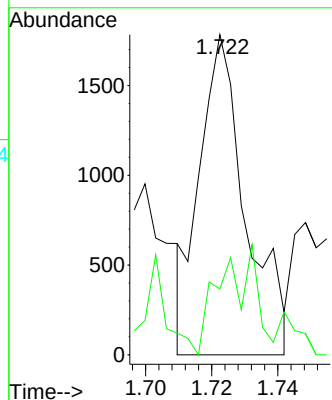
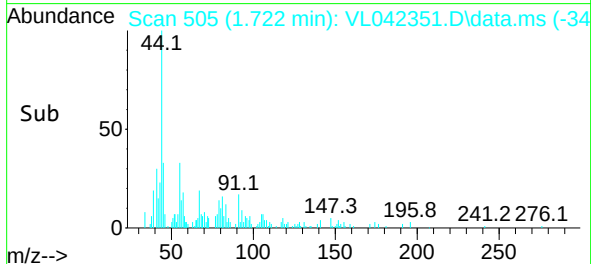
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ClientSampleId :
VSTDICC001



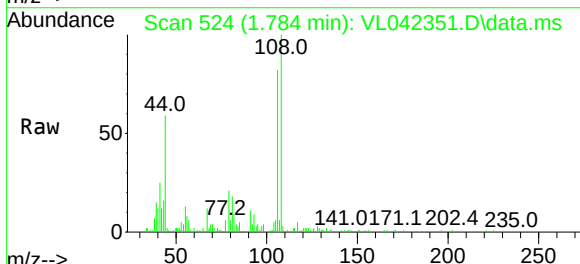
Tgt Ion: 45 Resp: 1730
Ion Ratio Lower Upper
45 100
46 44.9 21.9 87.7

Manual Integrations
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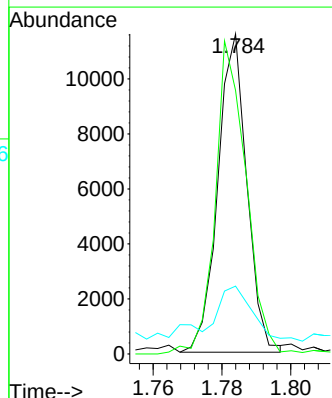
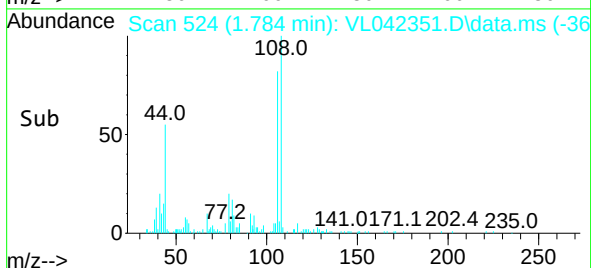
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

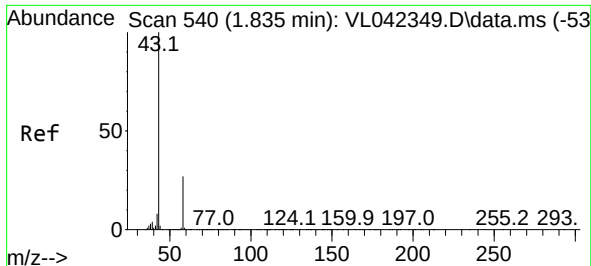


#14
Bromoethene
Concen: 1.052 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48



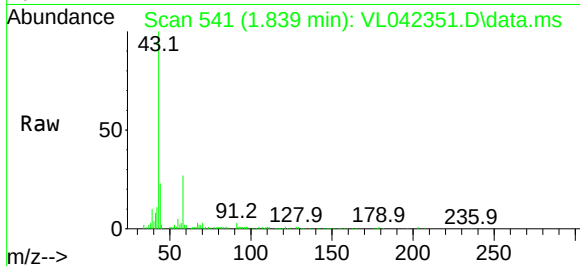
Tgt Ion:108 Resp: 6766
Ion Ratio Lower Upper
108 100
106 104.7 85.9 128.9
79 45.4 13.9 20.9





#15
Acetone
Concen: 1.158 ppbv
RT: 1.839 min Scan# 540
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

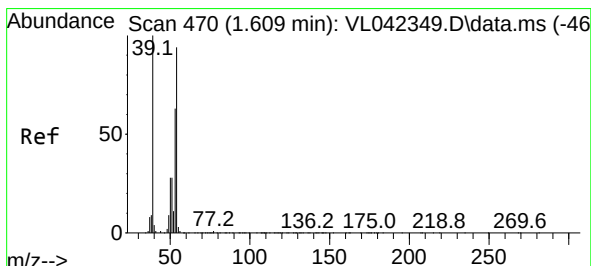
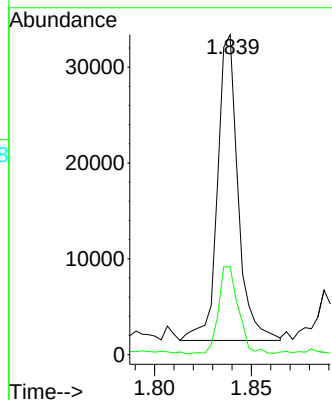
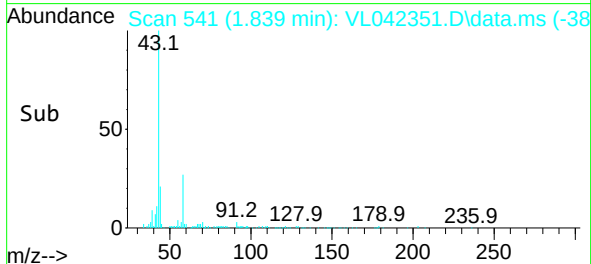
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



Tgt Ion: 43 Resp: 2353
Ion Ratio Lower Upper
43 100
58 29.4 22.4 33.6

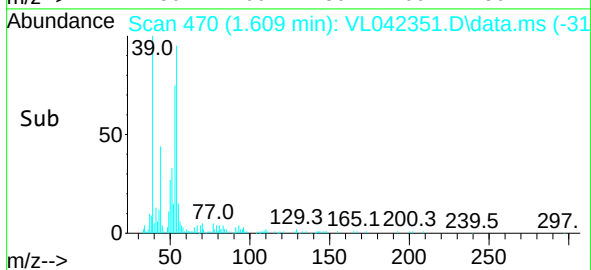
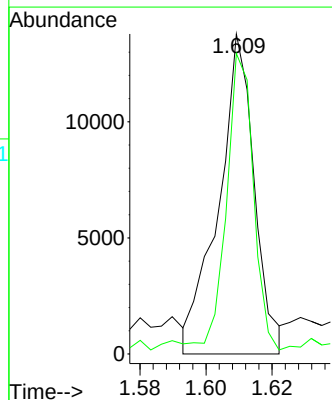
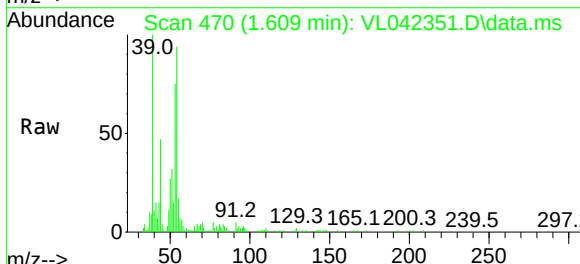
Manual Integrations
APPROVED

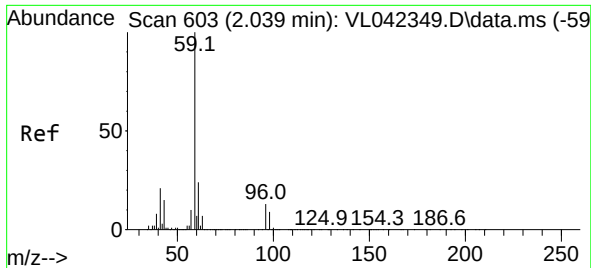
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#16
1,3-Butadiene
Concen: 1.087 ppbv m
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

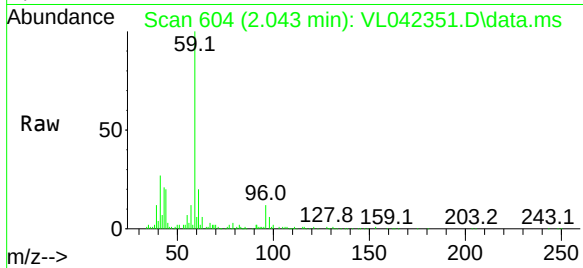
Tgt Ion: 39 Resp: 10377
Ion Ratio Lower Upper
39 100
54 71.0 64.9 97.3





#17
tert-Butyl alcohol
Concen: 1.051 ppbv
RT: 2.043 min Scan# 603
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

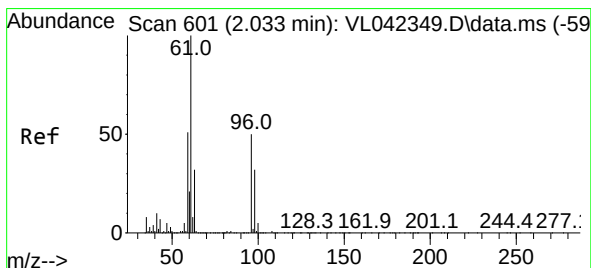
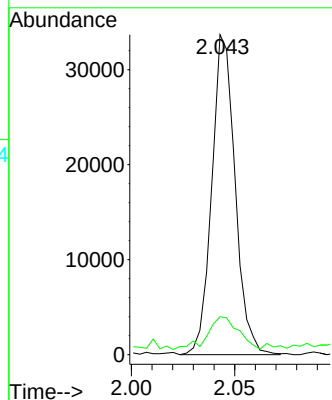
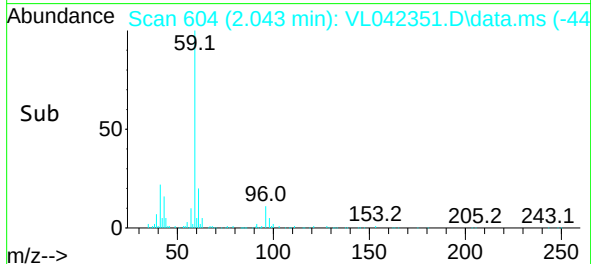
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001



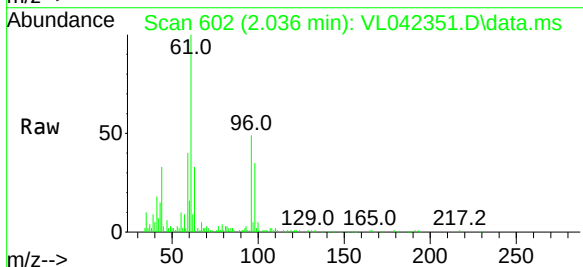
Tgt Ion: 59 Resp: 2647
Ion Ratio Lower Upper
59 100
57 14.6 8.7 13.1

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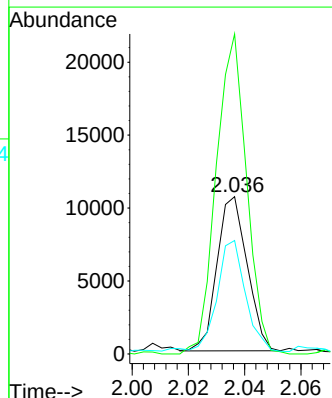
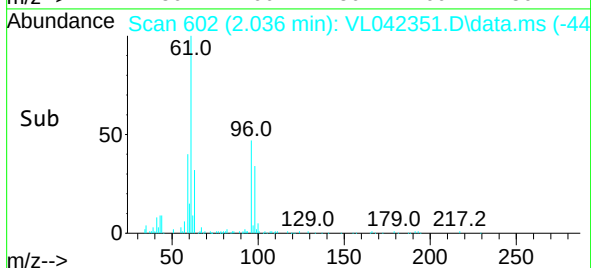
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

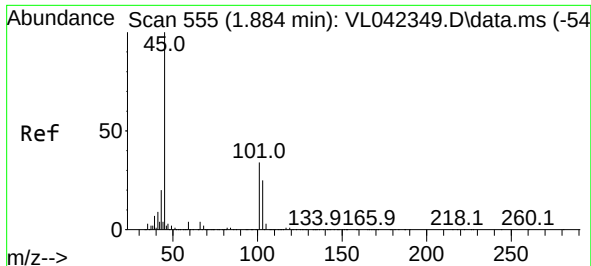


#18
1,1-Dichloroethene
Concen: 0.962 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48



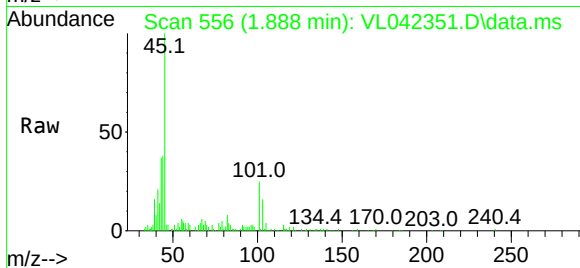
Tgt Ion: 96 Resp: 7890
Ion Ratio Lower Upper
96 100
61 207.8 160.2 240.2
98 71.9 51.0 76.4





#19
Isopropyl Alcohol
Concen: 1.078 ppbv
RT: 1.888 min Scan# 511
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

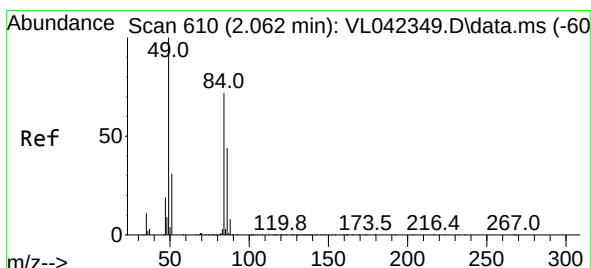
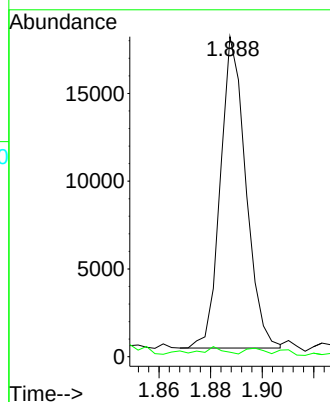
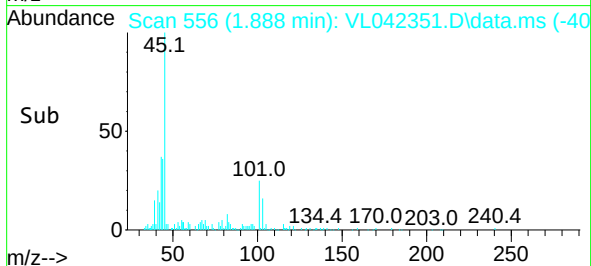
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



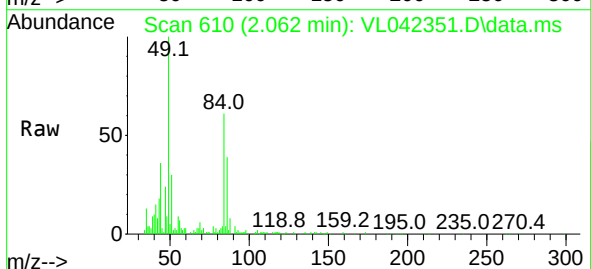
Tgt Ion: 45 Resp: 12179
Ion Ratio Lower Upper
45 100
58 3.8 34.5 51.7

Manual Integrations
APPROVED

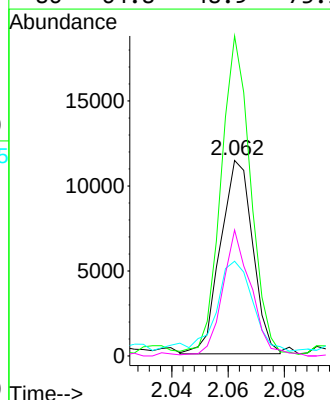
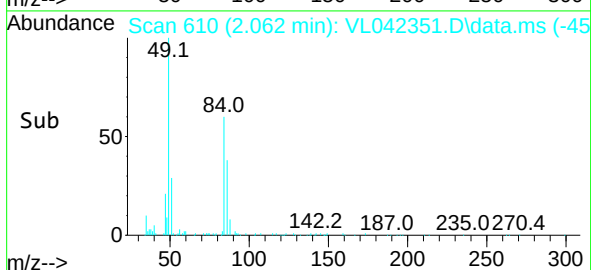
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

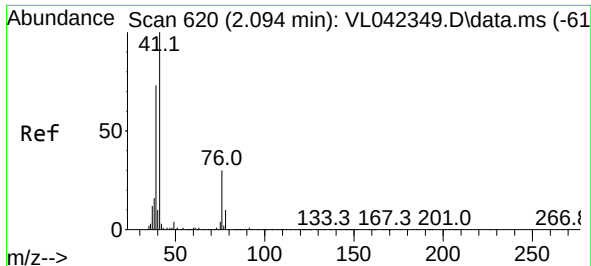


#20
Methylene Chloride
Concen: 1.136 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48



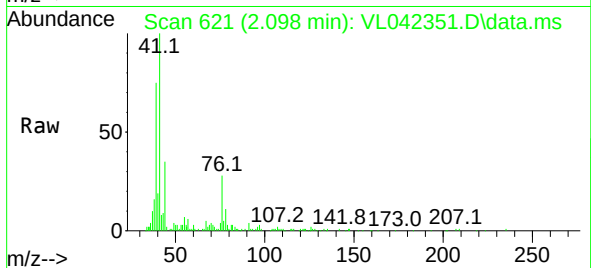
Tgt Ion: 84 Resp: 9046
Ion Ratio Lower Upper
84 100
49 164.4 111.6 167.4
51 44.4 35.1 52.7
86 64.8 48.9 73.3





#21
 Allyl Chloride
 Concen: 1.073 ppbv
 RT: 2.098 min Scan# 61
 Delta R.T. 0.004 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48

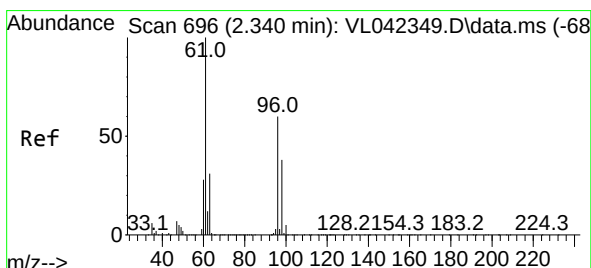
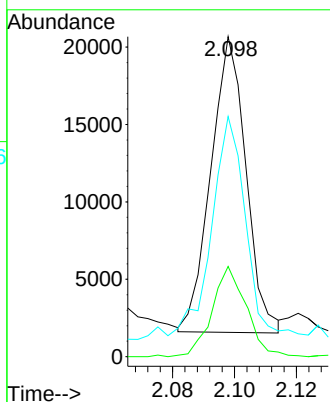
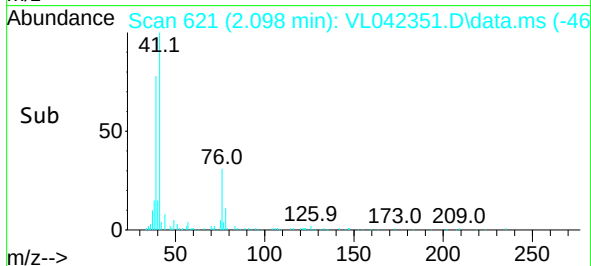
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001



Tgt Ion: 41 Resp: 1505
 Ion Ratio Lower Upper
 41 100
 76 29.8 24.8 37.2
 39 86.1 60.6 90.8

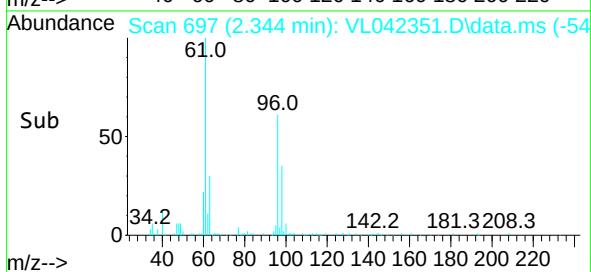
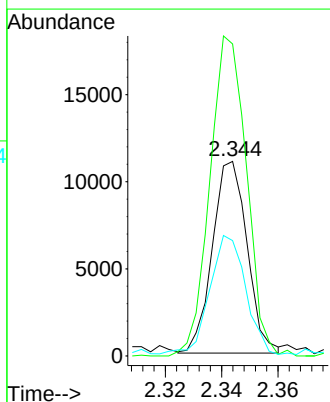
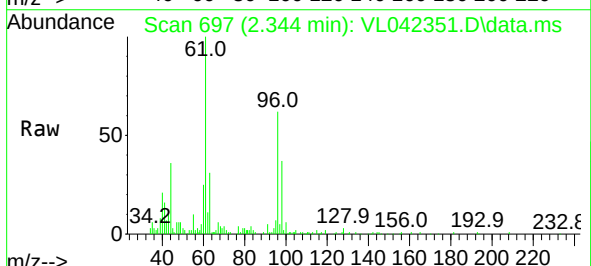
Manual Integrations
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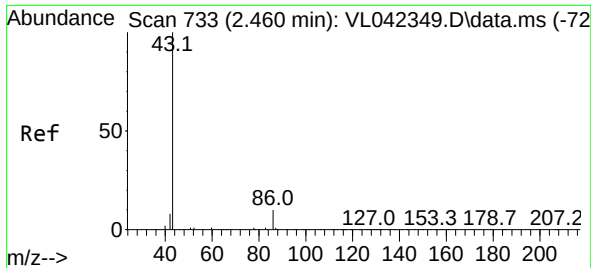
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#22
 trans-1,2-Dichloroethene
 Concen: 1.038 ppbv
 RT: 2.344 min Scan# 697
 Delta R.T. 0.004 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48

Tgt Ion: 96 Resp: 9421
 Ion Ratio Lower Upper
 96 100
 61 161.7 133.7 200.5
 98 59.8 50.3 75.5





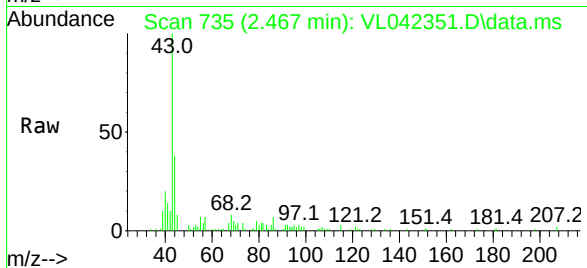
#23
 Vinyl Acetate
 Concen: 1.122 ppbv
 RT: 2.467 min Scan# 717
 Delta R.T. 0.007 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC001

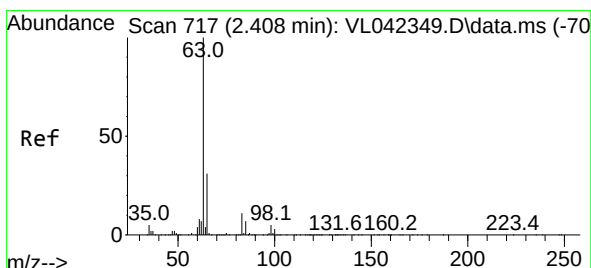
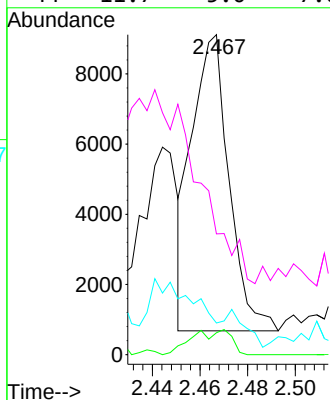
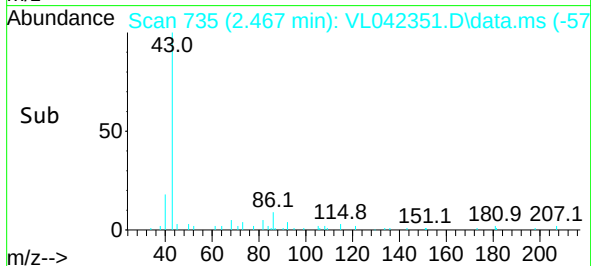


Tgt Ion: 43 Resp: 9234
 Ion Ratio Lower Upper
 43 100
 86 7.4 6.5 9.7
 42 4.6 7.8 11.8
 44 11.7 5.0 7.6#

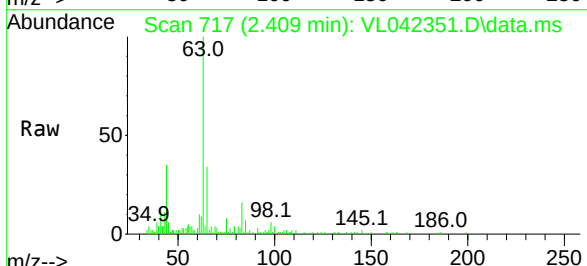
Manual Integrations

APPROVED

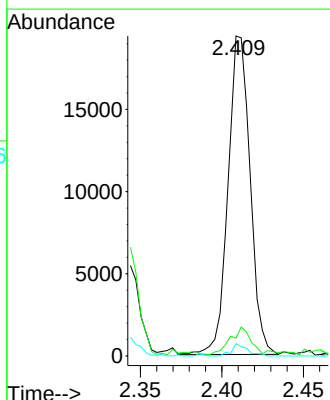
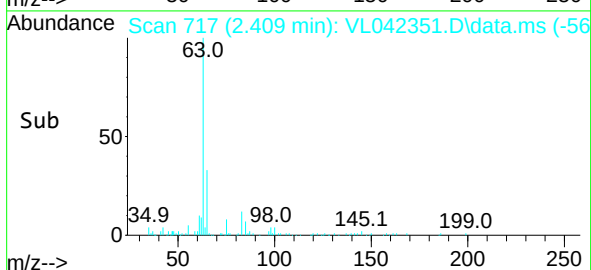
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

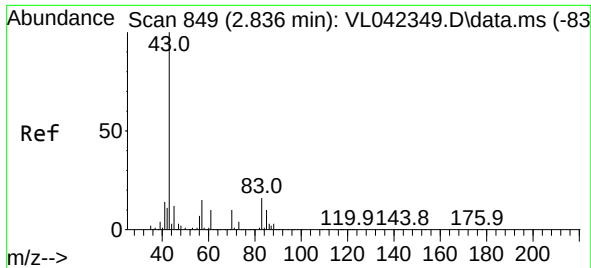


#24
 1,1-Dichloroethane
 Concen: 1.058 ppbv
 RT: 2.409 min Scan# 717
 Delta R.T. 0.000 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48



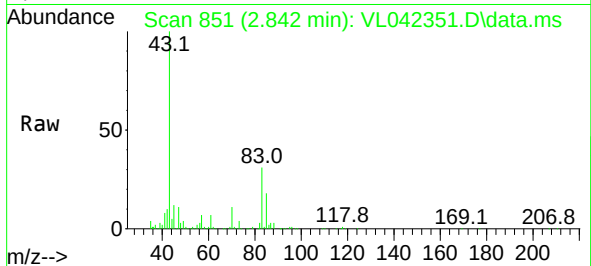
Tgt Ion: 63 Resp: 18236
 Ion Ratio Lower Upper
 63 100
 98 4.7 2.3 6.8
 100 3.9 1.6 4.8





#25
Ethyl Acetate
Concen: 1.027 ppbv
RT: 2.842 min Scan# 849
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

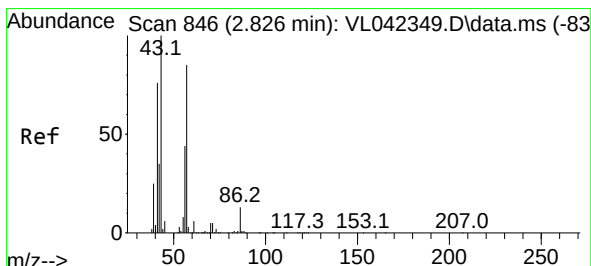
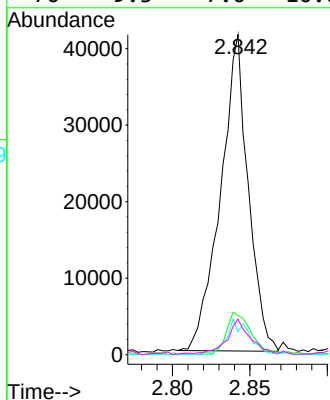
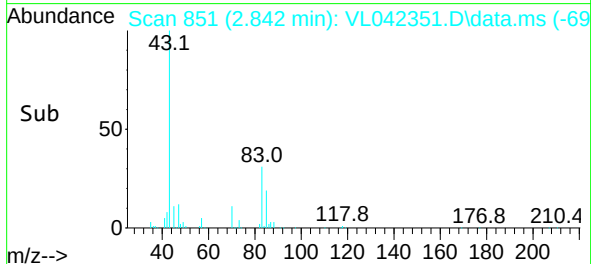
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



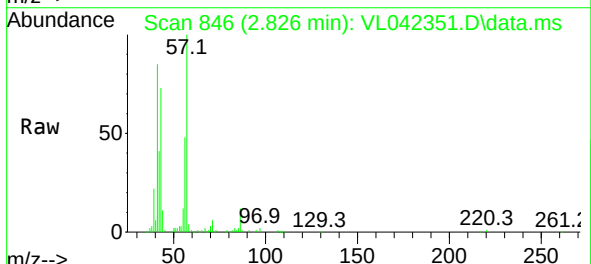
Tgt Ion: 43 Resp: 51494
Ion Ratio Lower Upper
43 100
45 13.1 8.3 12.5
61 9.0 7.3 10.9
70 9.3 7.0 10.6

Manual Integrations
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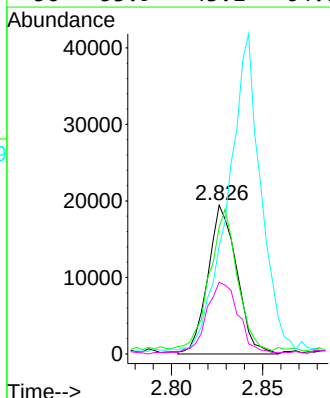
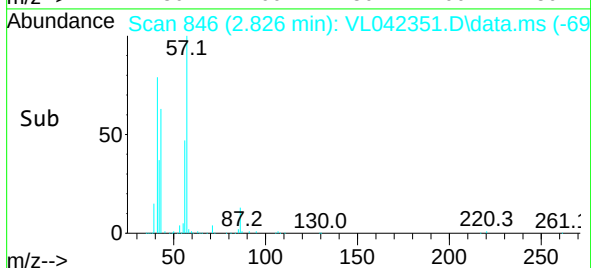
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

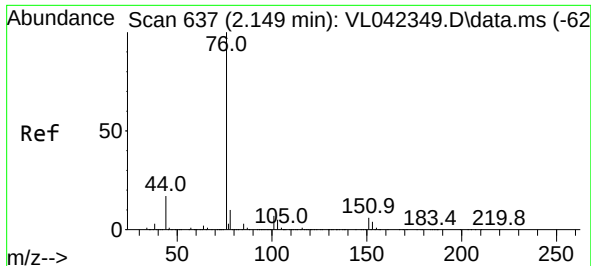


#26
Hexane
Concen: 1.053 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48



Tgt Ion: 57 Resp: 21350
Ion Ratio Lower Upper
57 100
41 95.3 77.9 116.9
43 247.5 208.4 312.6
56 53.9 43.1 64.7





#27

Carbon Disulfide

Concen: 0.955 ppbv

RT: 2.153 min Scan# 61

Delta R.T. 0.004 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Instrument :

MSVOA_L

ClientSampleId :

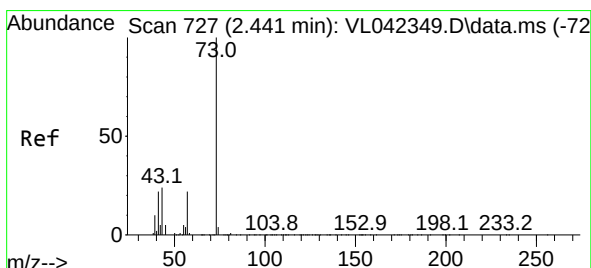
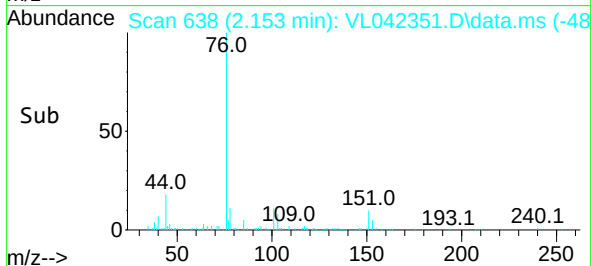
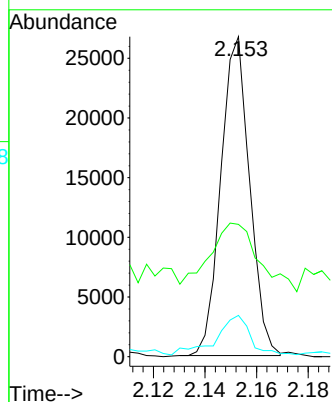
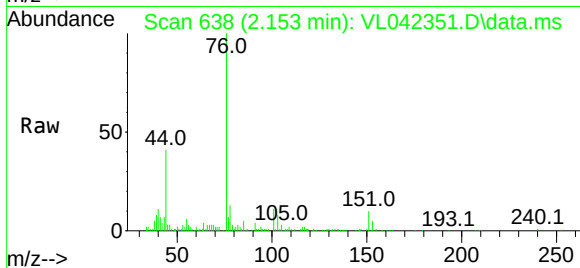
VSTDICC001

Tgt Ion: 76 Resp: 20739
 Ion Ratio Lower Upper
 76 100
 44 93.1 15.5 23.3
 78 19.8 9.3 13.9

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#28

Methyl tert-Butyl Ether

Concen: 1.066 ppbv

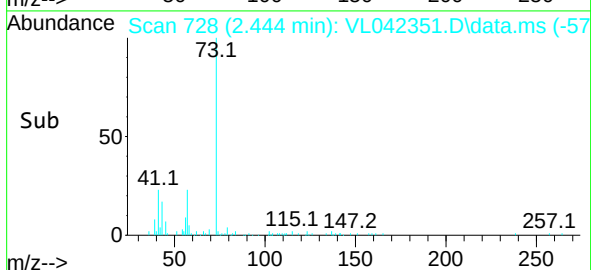
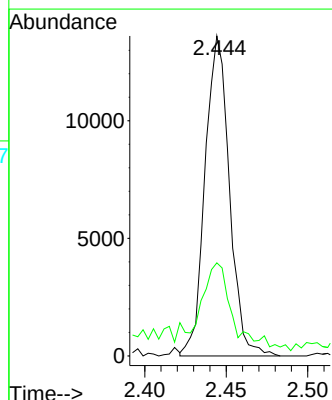
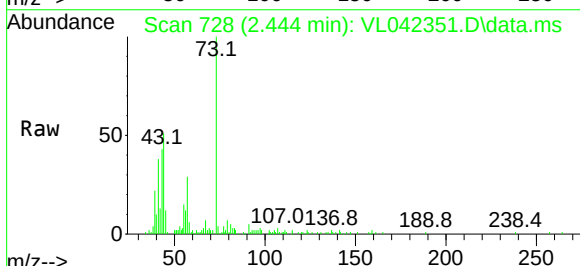
RT: 2.444 min Scan# 728

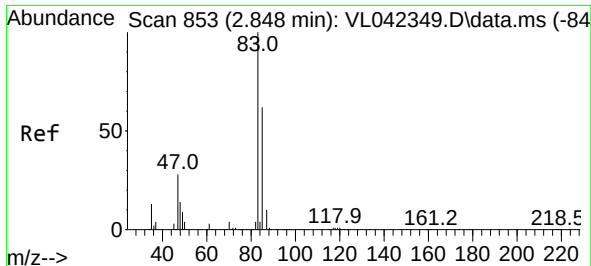
Delta R.T. 0.004 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Tgt Ion: 73 Resp: 14164
 Ion Ratio Lower Upper
 73 100
 57 34.2 21.3 31.9





#29

Chloroform

Concen: 1.011 ppbv

RT: 2.852 min Scan# 854

Delta R.T. 0.004 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC001

Tgt Ion: 83 Resp: 2897

Ion Ratio Lower Upper

83 100

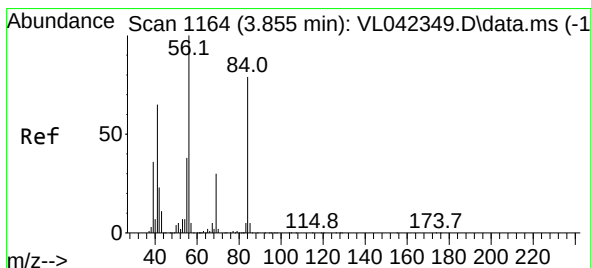
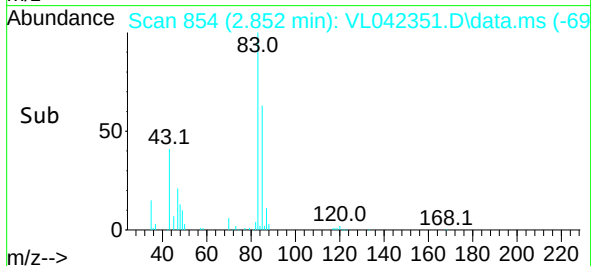
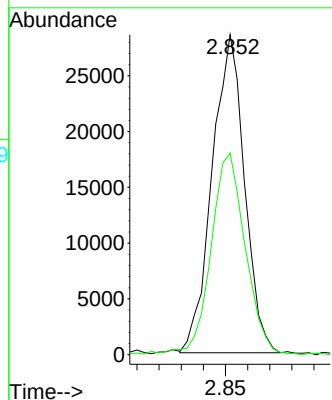
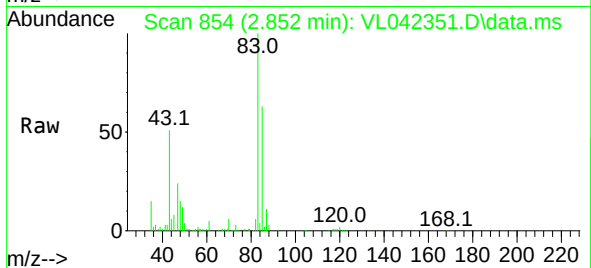
85 62.6 50.0 75.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#30

Cyclohexane

Concen: 1.013 ppbv m

RT: 3.862 min Scan# 1166

Delta R.T. 0.007 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

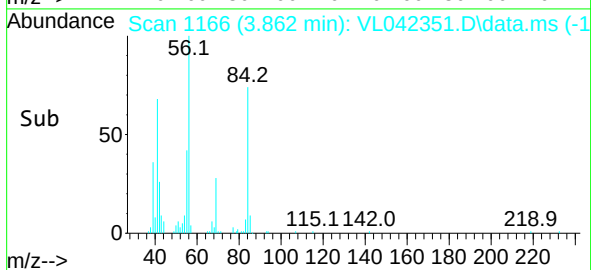
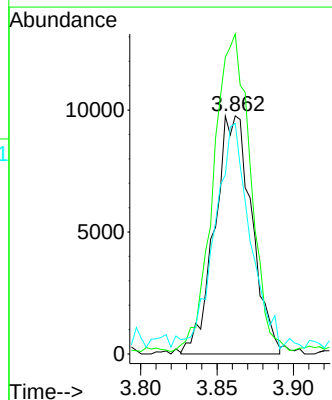
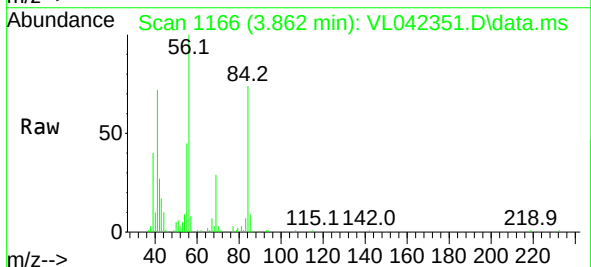
Tgt Ion: 84 Resp: 16547

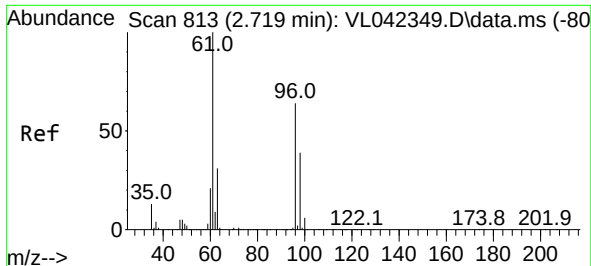
Ion Ratio Lower Upper

84 100

56 134.2 101.0 151.4

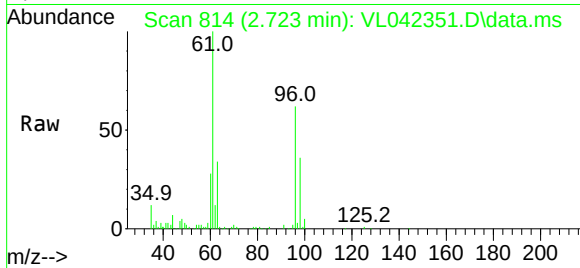
41 85.1 67.4 101.0





#31
 cis-1,2-Dichloroethene
 Concen: 1.032 ppbv
 RT: 2.723 min Scan# 813
 Delta R.T. 0.004 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48

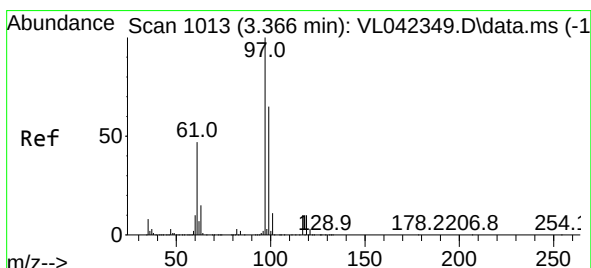
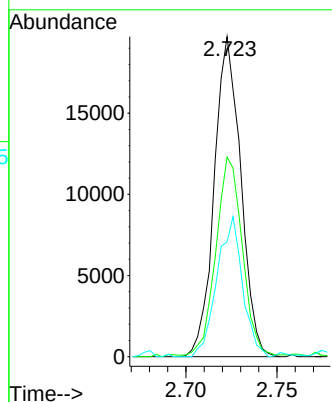
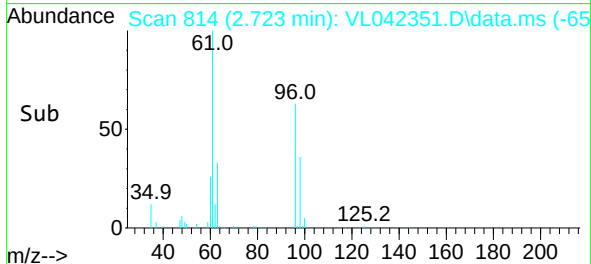
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001



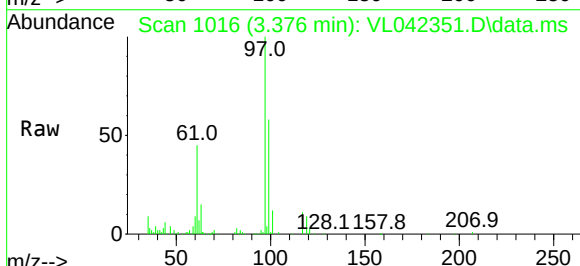
Tgt Ion: 61 Resp: 19904
 Ion Ratio Lower Upper
 61 100
 96 61.9 50.8 76.2
 98 35.9 30.9 46.3

Manual Integrations
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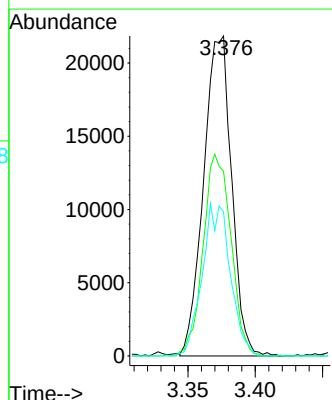
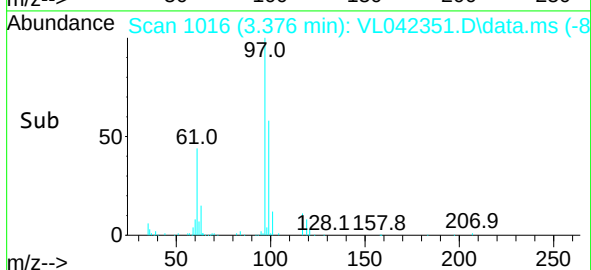
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

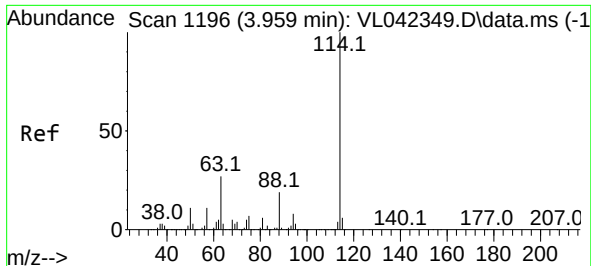


#32
 1,1,1-Trichloroethane
 Concen: 1.030 ppbv
 RT: 3.376 min Scan# 1016
 Delta R.T. 0.010 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48



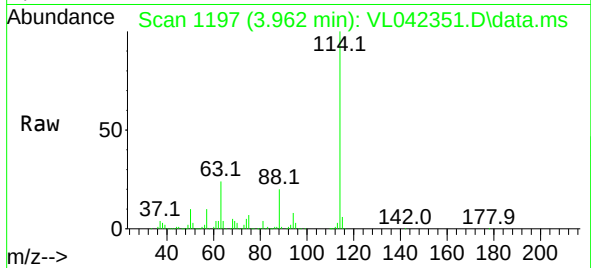
Tgt Ion: 97 Resp: 31653
 Ion Ratio Lower Upper
 97 100
 99 62.4 51.0 76.4
 61 47.6 38.8 58.2





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1196
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

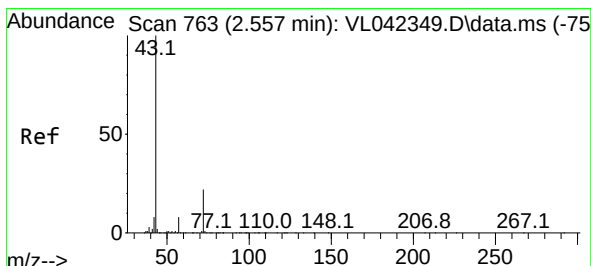
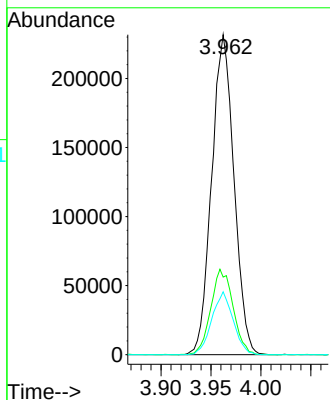
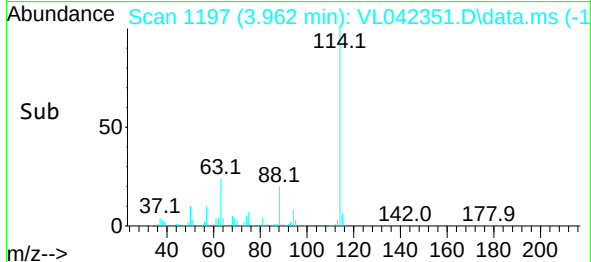
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



Tgt Ion:114 Resp: 35990
Ion Ratio Lower Upper
114 100
63 26.7 21.8 32.6
88 18.8 15.5 23.3

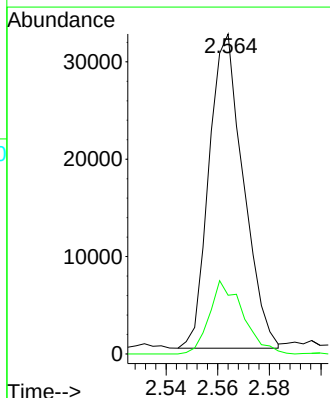
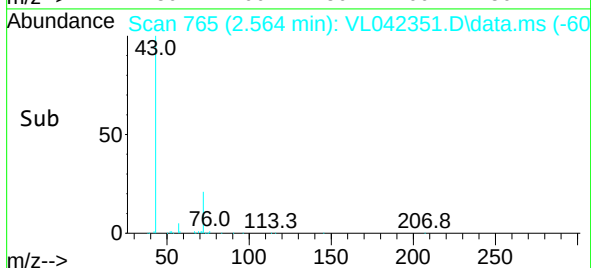
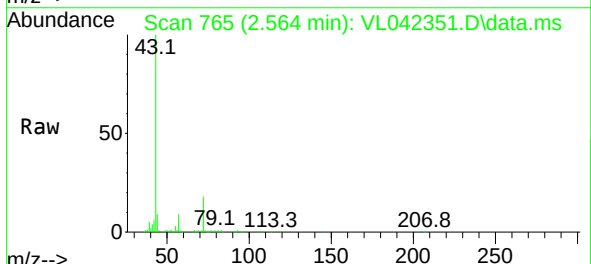
Manual Integrations
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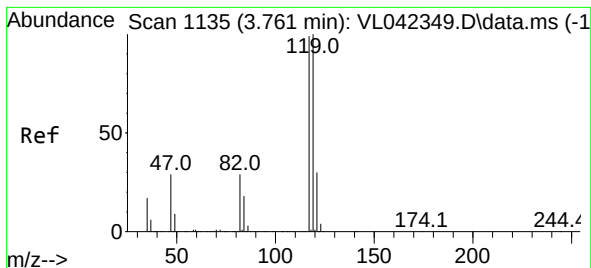
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#34
2-Butanone
Concen: 1.045 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 43 Resp: 29735
Ion Ratio Lower Upper
43 100
72 23.1 18.2 27.2





#35

Carbon Tetrachloride

Concen: 0.917 ppbv

RT: 3.768 min Scan# 1135

Delta R.T. 0.007 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Instrument :

MSVOA_L

ClientSampleId :

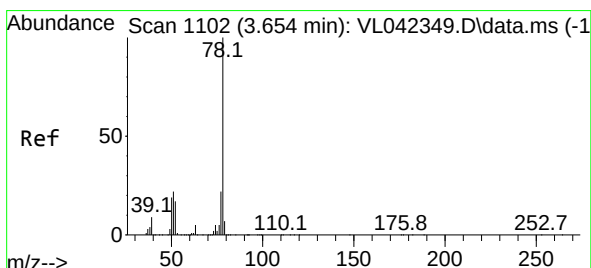
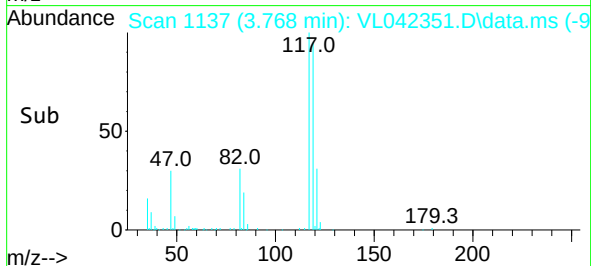
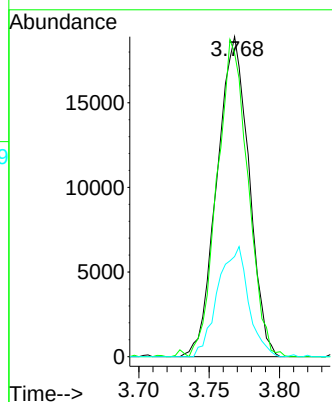
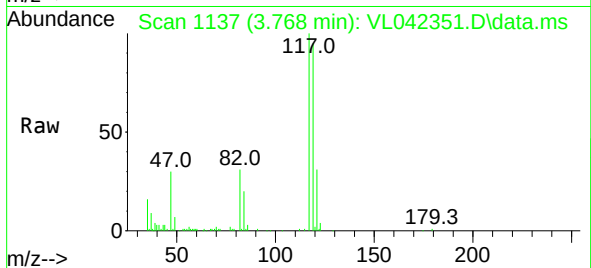
VSTDICC001

Tgt Ion:117	Resp:	2987
Ion Ratio	Lower	Upper
117	100	
119	93.3	80.5 120.7
121	31.3	24.2 36.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#36

Benzene

Concen: 0.997 ppbv

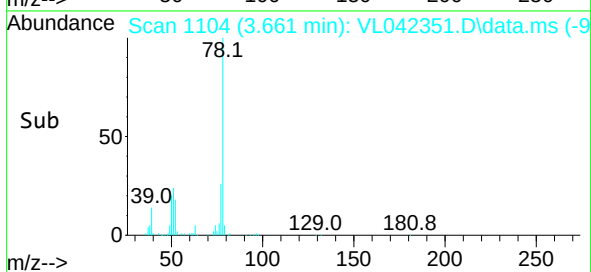
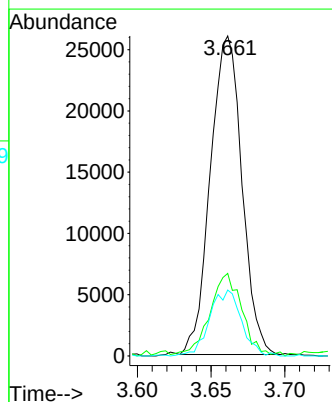
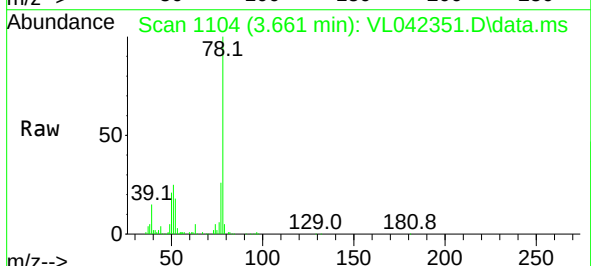
RT: 3.661 min Scan# 1104

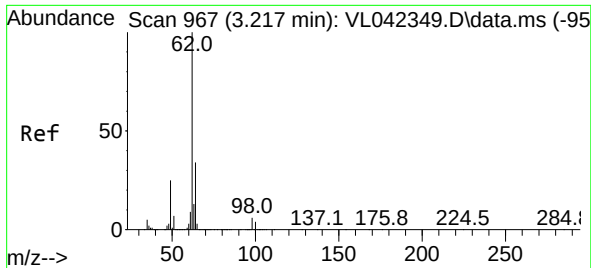
Delta R.T. 0.007 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Tgt Ion: 78	Resp:	38707
Ion Ratio	Lower	Upper
78	100	
77	24.7	17.4 26.0
50	20.7	15.5 23.3





#37

1,2-Dichloroethane

Concen: 0.999 ppbv

RT: 3.224 min Scan# 967

Delta R.T. 0.007 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC001

Tgt Ion: 62 Resp: 23284

Ion Ratio Lower Upper

62 100

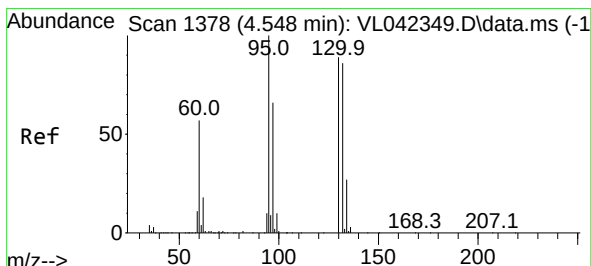
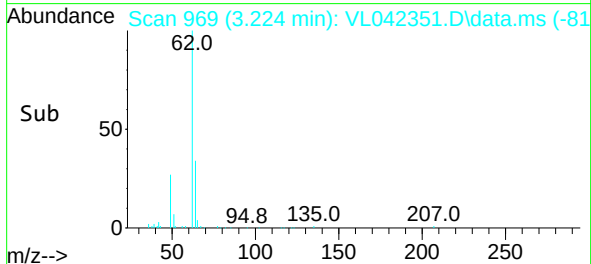
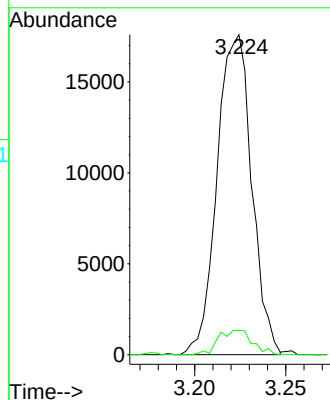
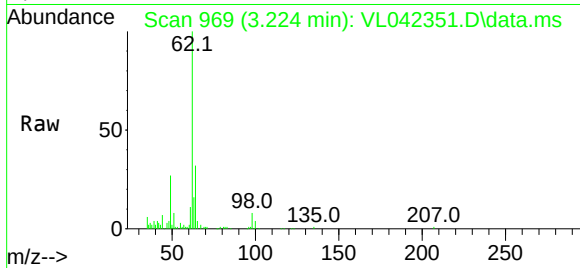
98 7.5 5.1 7.7

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#38

Trichloroethene

Concen: 0.947 ppbv

RT: 4.551 min Scan# 1379

Delta R.T. 0.004 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Tgt Ion:130 Resp: 16119

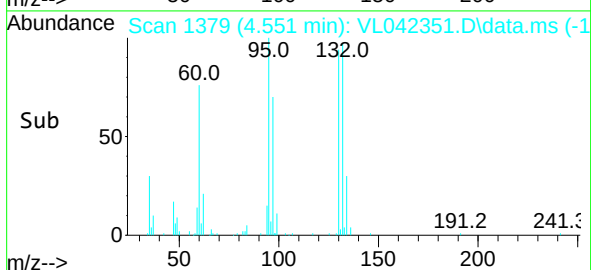
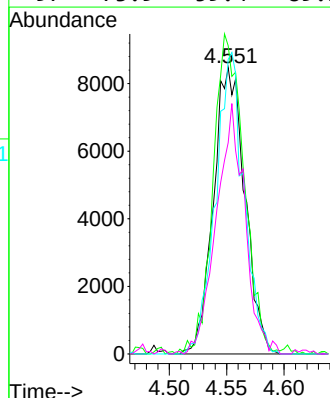
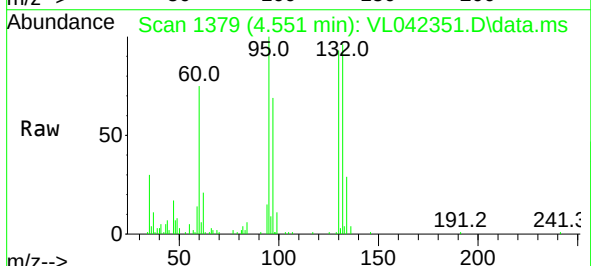
Ion Ratio Lower Upper

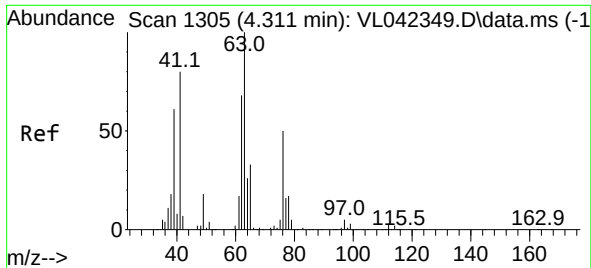
130 100

95 106.6 89.8 134.6

132 102.9 77.7 116.5

97 73.9 59.4 89.2





#39

1,2-Dichloropropane

Concen: 1.027 ppbv

RT: 4.318 min Scan# 1305

Delta R.T. 0.007 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Instrument :

MSVOA_L

ClientSampleId :

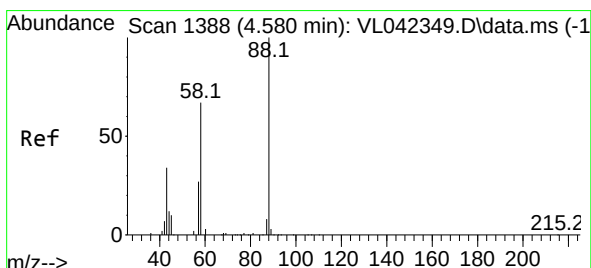
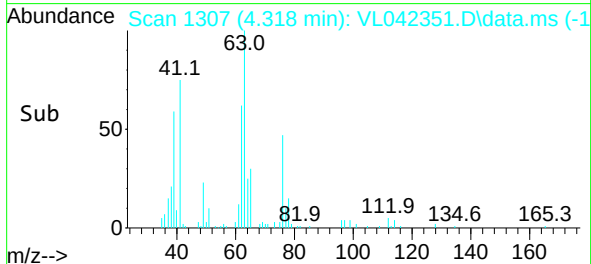
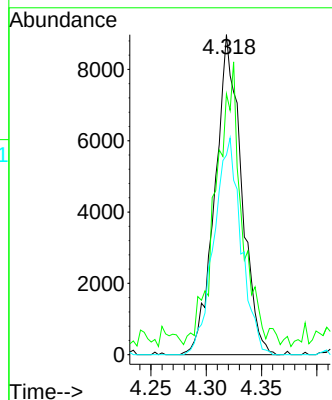
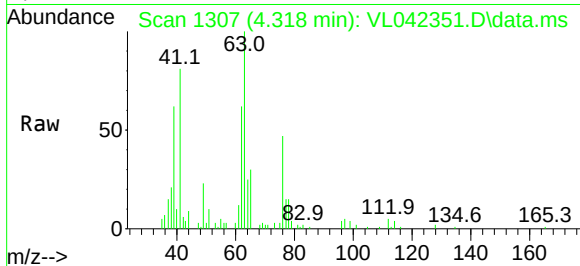
VSTDICC001

Tgt Ion: 63	Resp: 1486
Ion Ratio	Lower Upper
63	100
41	78.3 64.2 96.2
62	62.3 54.3 81.5

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#40

1,4-Dioxane

Concen: 1.114 ppbv m

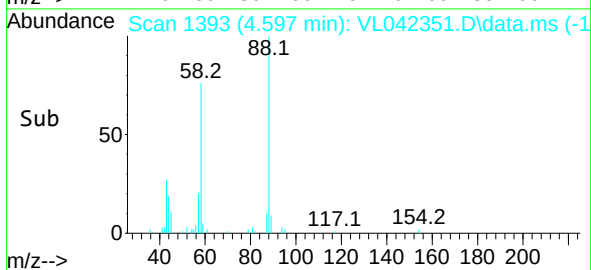
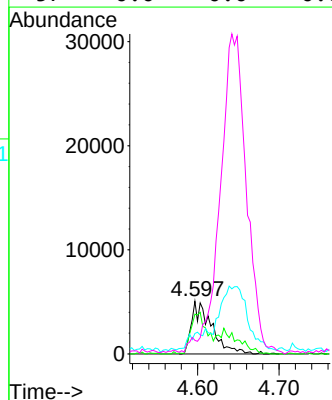
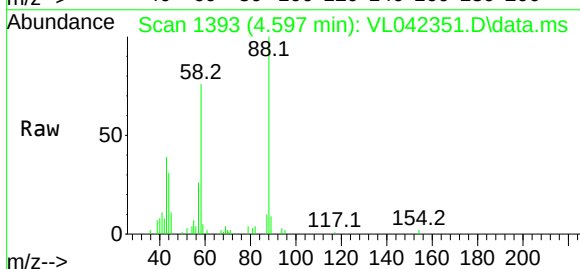
RT: 4.597 min Scan# 1393

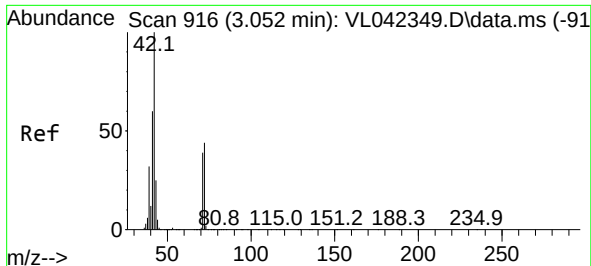
Delta R.T. 0.017 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Tgt Ion: 88	Resp: 8737
Ion Ratio	Lower Upper
88	100
58	110.6 61.4 92.0#
43	0.0 23.2 34.8#
57	0.0 0.0 0.0





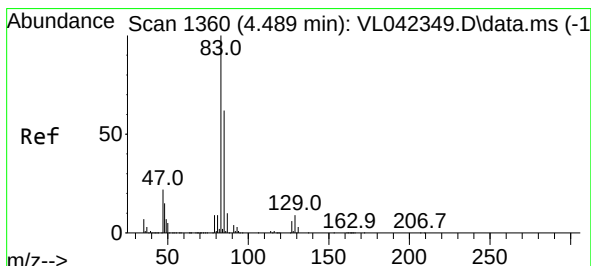
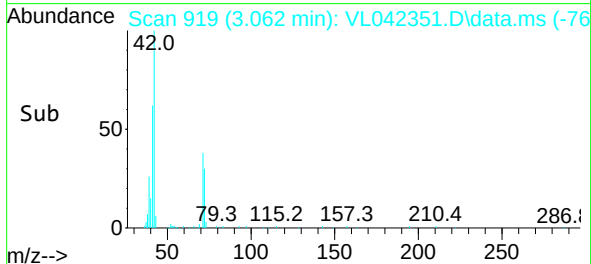
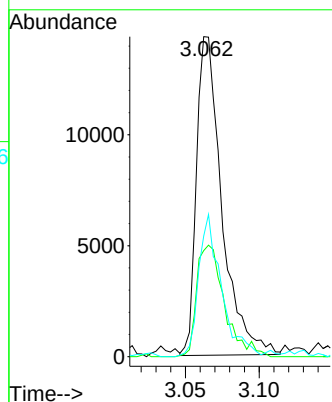
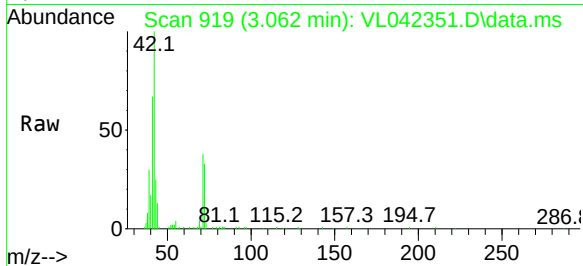
#41
Tetrahydrofuran
Concen: 1.049 ppbv
RT: 3.062 min Scan# 916
Delta R.T. 0.010 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 42 Resp: 17259
Ion Ratio Lower Upper
42 100
72 38.1 32.3 48.5
71 42.3 31.4 47.2

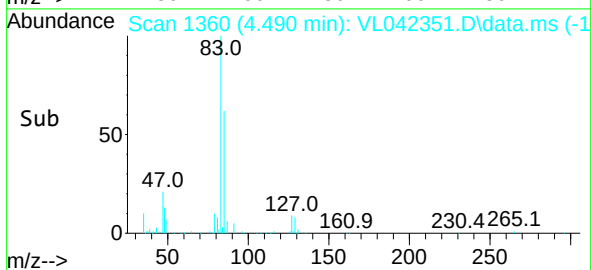
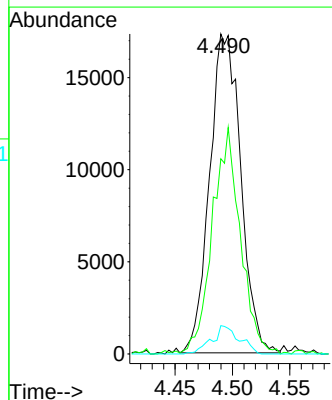
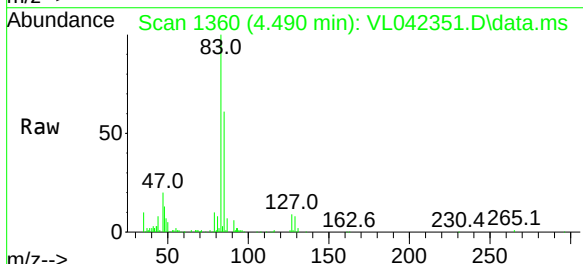
Manual Integrations
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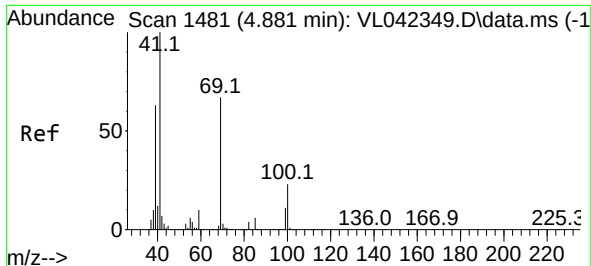
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#42
Bromodichloromethane
Concen: 1.009 ppbv
RT: 4.490 min Scan# 1360
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

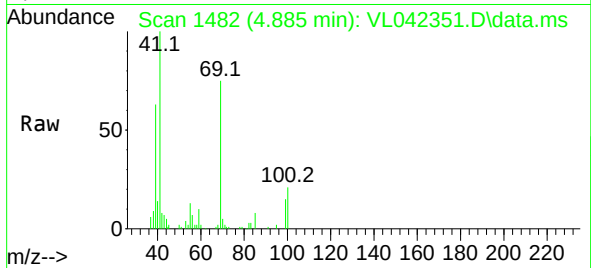
Tgt Ion: 83 Resp: 32721
Ion Ratio Lower Upper
83 100
85 61.2 49.7 74.5
127 8.9 5.1 7.7#





#43
Methyl Methacrylate
Concen: 1.073 ppbv m
RT: 4.885 min Scan# 1481
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

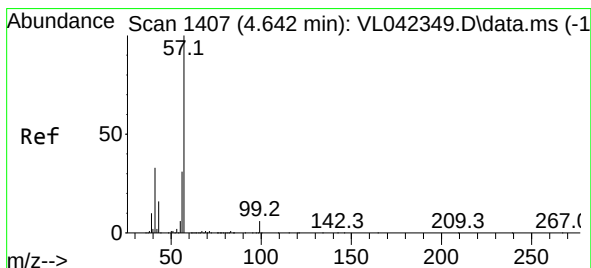
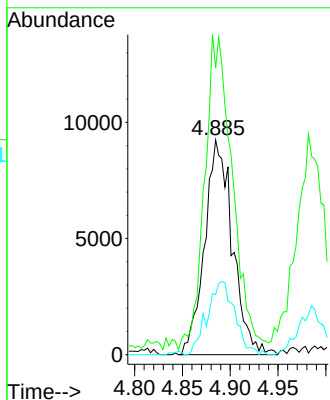
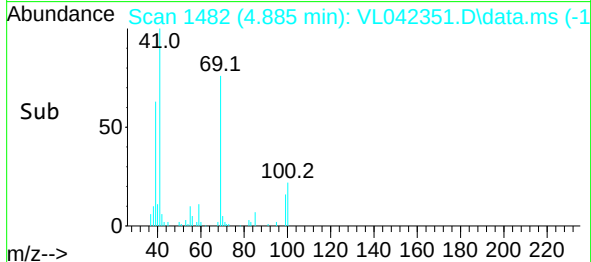
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



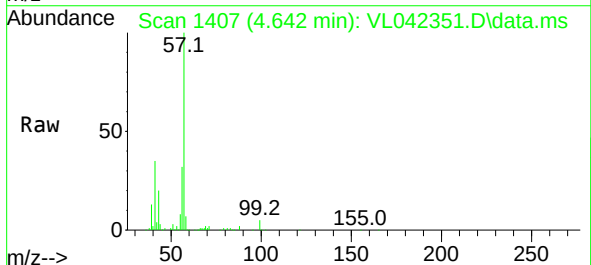
Tgt Ion: 69 Resp: 18699
Ion Ratio Lower Upper
69 100
41 149.3 118.6 177.8
100 0.0 28.2 42.2

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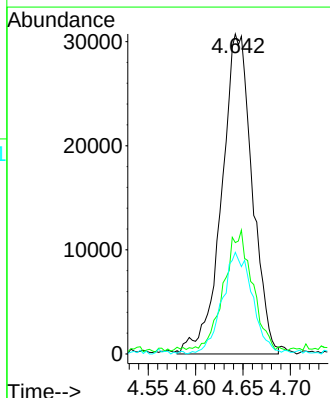
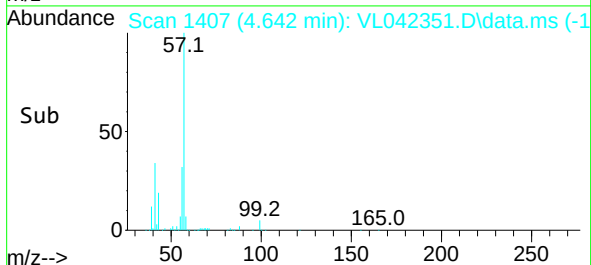
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

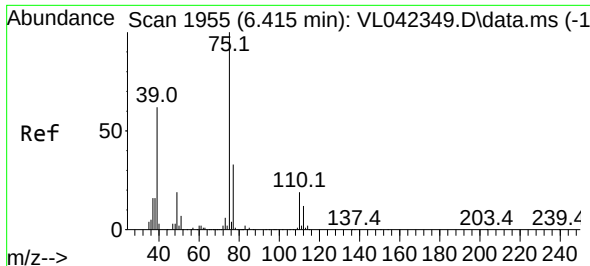


#44
2,2,4-Trimethylpentane
Concen: 1.027 ppbv m
RT: 4.642 min Scan# 1407
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48



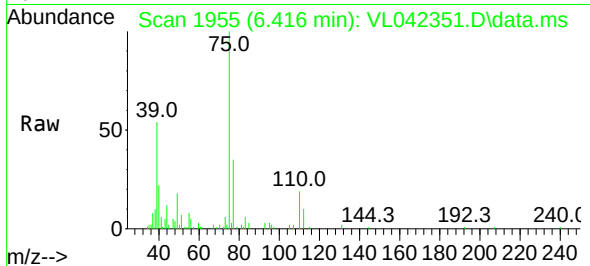
Tgt Ion: 57 Resp: 68946
Ion Ratio Lower Upper
57 100
41 37.9 27.2 40.8
56 0.0 25.7 38.5





#45
 t-1,3-Dichloropropene
 Concen: 1.026 ppbv m
 RT: 6.416 min Scan# 1955
 Delta R.T. 0.000 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48

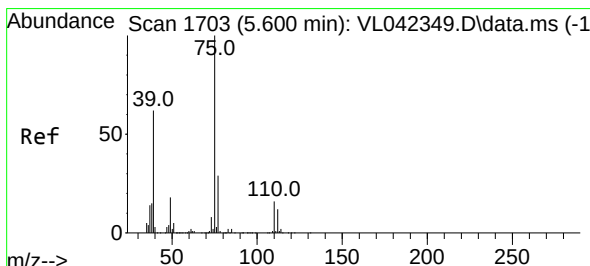
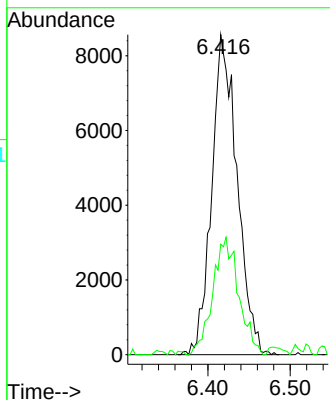
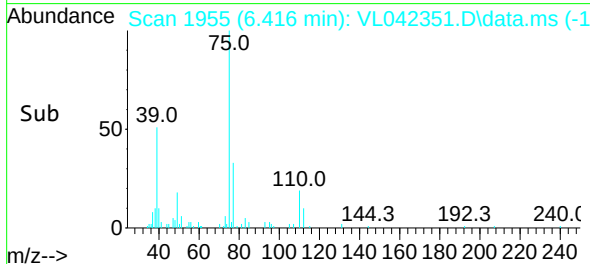
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001



Tgt Ion: 75 Resp: 1834
 Ion Ratio Lower Upper
 75 100
 77 34.5 27.0 40.6

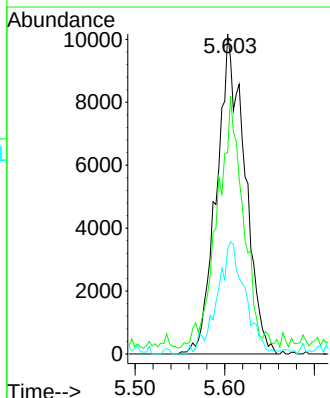
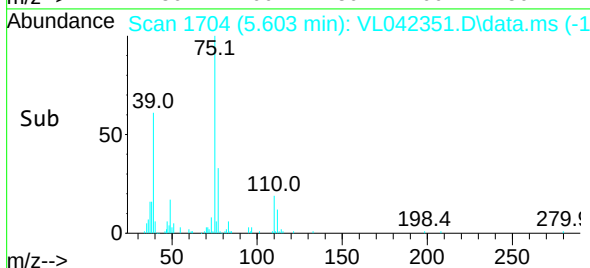
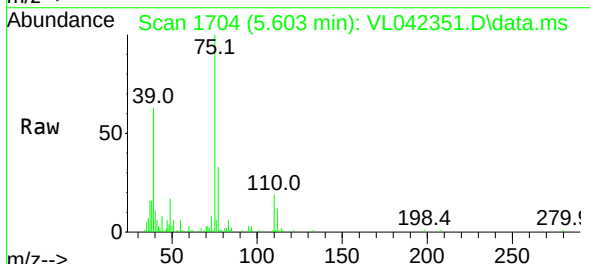
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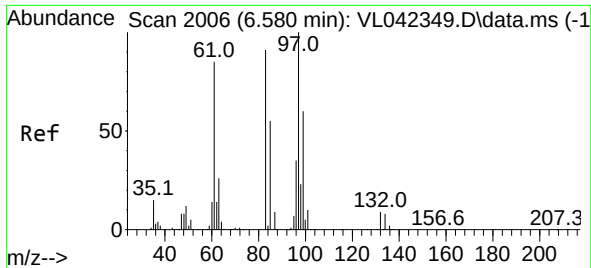
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#46
 cis-1,3-Dichloropropene
 Concen: 1.015 ppbv m
 RT: 5.603 min Scan# 1704
 Delta R.T. 0.004 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48

Tgt Ion: 75 Resp: 22189
 Ion Ratio Lower Upper
 75 100
 39 62.9 50.0 75.0
 77 32.9 23.0 34.6





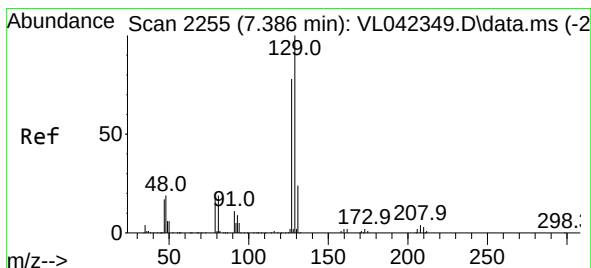
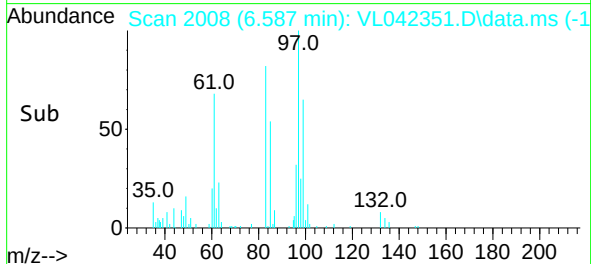
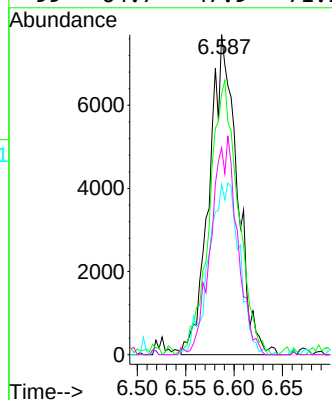
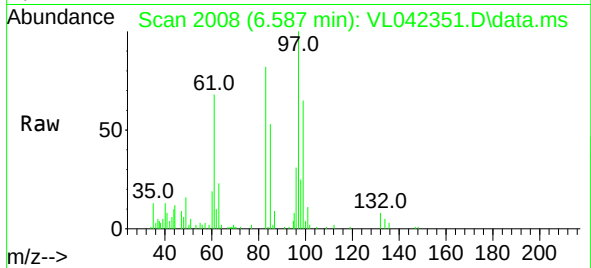
#47
1,1,2-Trichloroethane
Concen: 1.048 ppbv m
RT: 6.587 min Scan# 2006
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Tgt Ion: 97	Resp: 1545
Ion Ratio	Lower Upper
97 100	
83 81.5	72.8 109.2
85 53.2	44.2 66.4
99 64.7	47.9 71.9

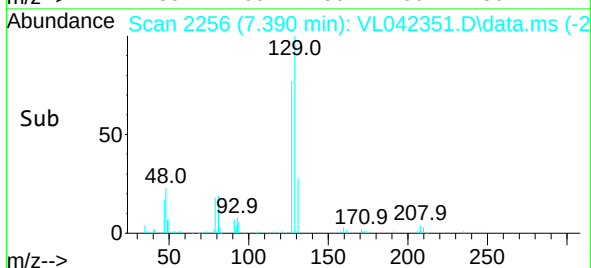
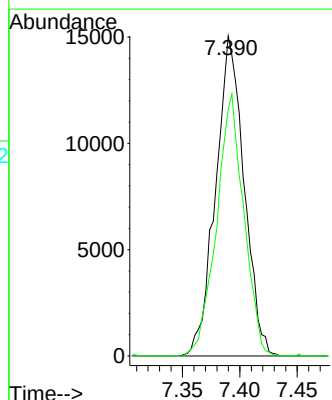
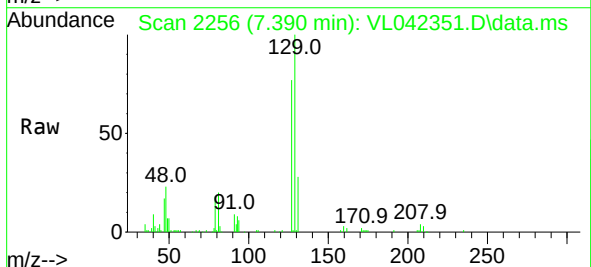
Manual Integrations
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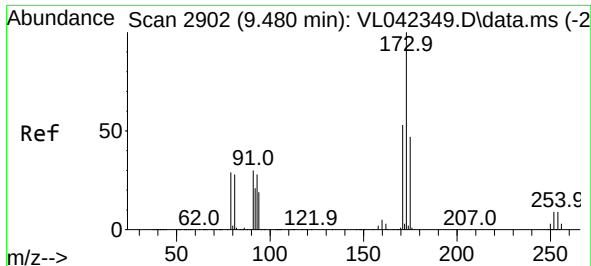
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#48
Dibromochloromethane
Concen: 0.997 ppbv
RT: 7.390 min Scan# 2256
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

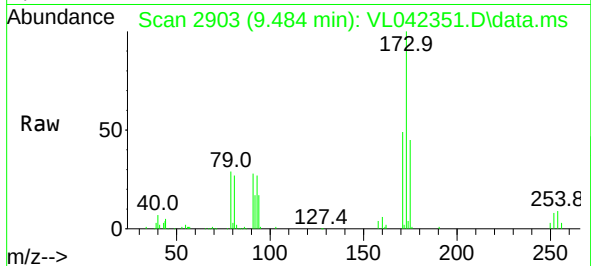
Tgt Ion:129	Resp: 25948
Ion Ratio	Lower Upper
129 100	
127 78.4	39.1 117.3





#49
Bromoform
Concen: 0.984 ppbv
RT: 9.484 min Scan# 2902
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

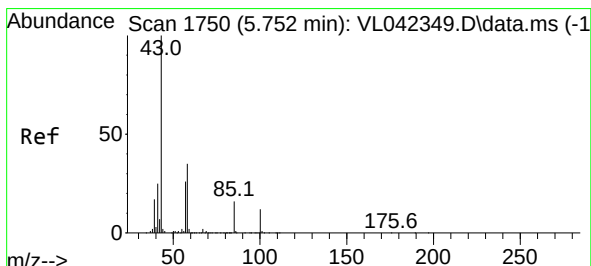
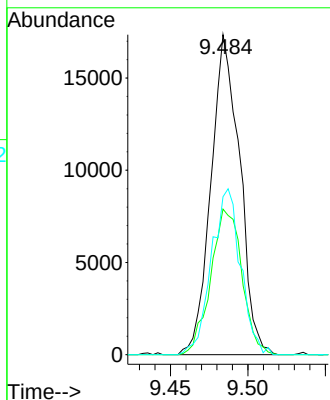
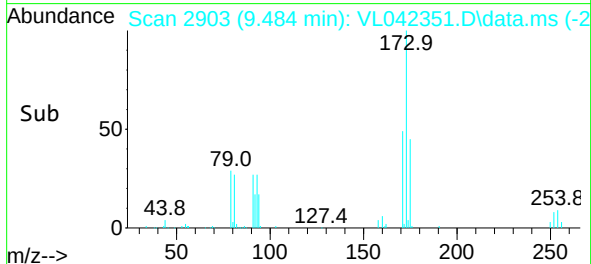
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



Tgt Ion: 173 Resp: 2241
Ion Ratio Lower Upper
173 100
175 49.3 38.2 57.2
171 52.7 40.9 61.3

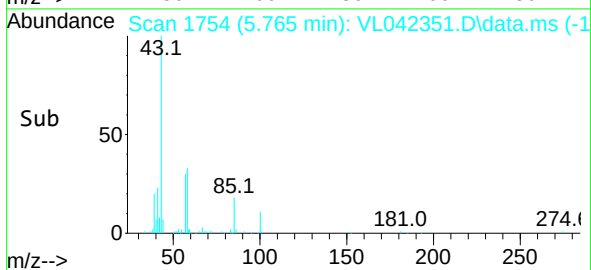
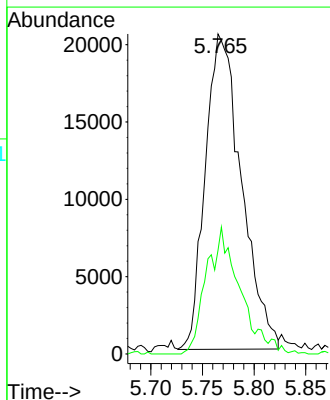
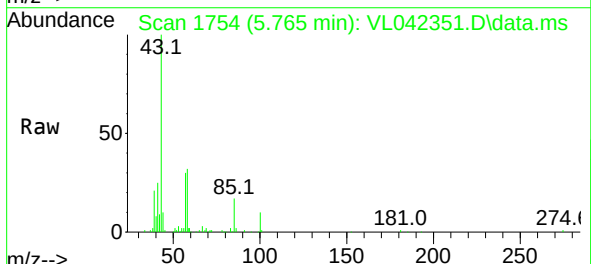
Manual Integrations
APPROVED

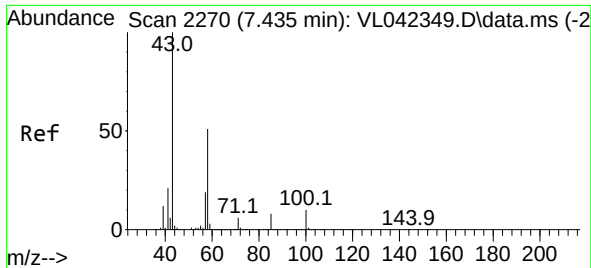
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#50
4-Methyl-2-Pentanone
Concen: 1.049 ppbv
RT: 5.765 min Scan# 1754
Delta R.T. 0.013 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 43 Resp: 49725
Ion Ratio Lower Upper
43 100
58 37.7 28.6 43.0





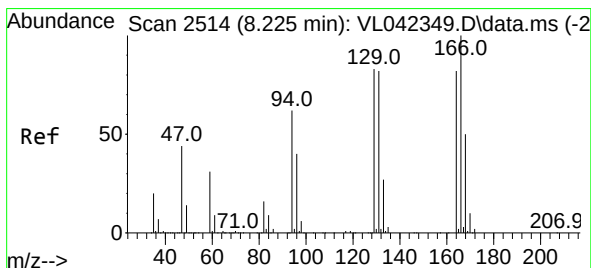
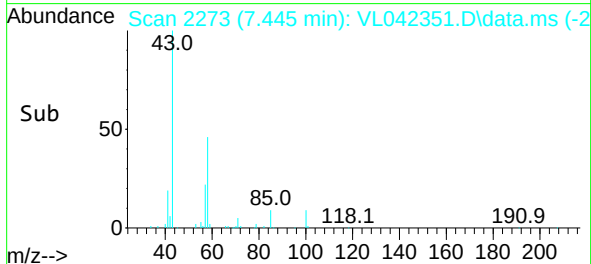
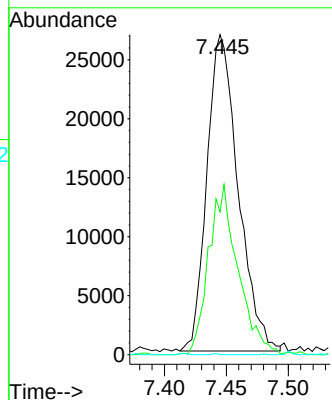
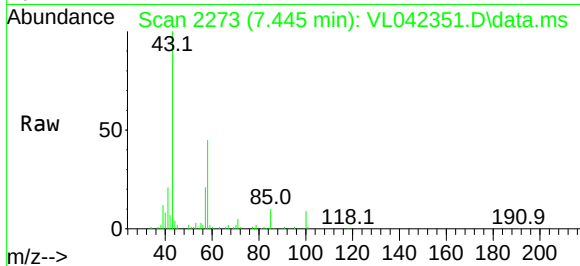
#51
2-Hexanone
Concen: 1.103 ppbv
RT: 7.445 min Scan# 2115
Delta R.T. 0.010 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 43 Resp: 47178
Ion Ratio Lower Upper
43 100
58 50.8 40.2 60.4
98 0.1 0.1 0.1

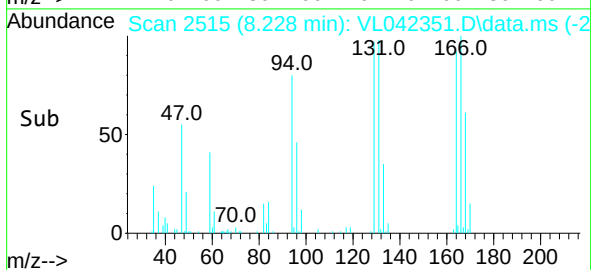
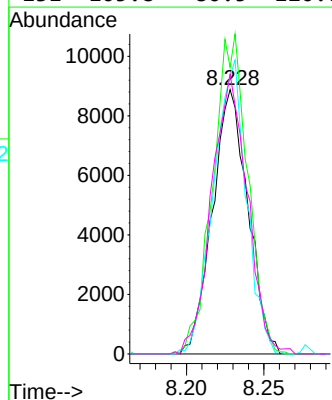
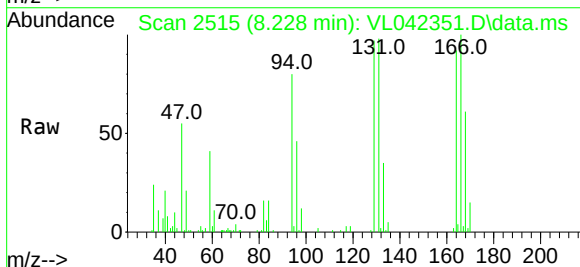
Manual Integrations
APPROVED

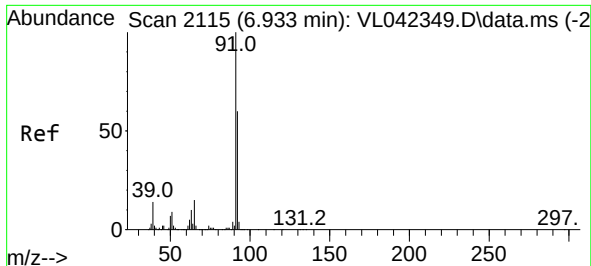
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#52
Tetrachloroethene
Concen: 0.943 ppbv
RT: 8.228 min Scan# 2515
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

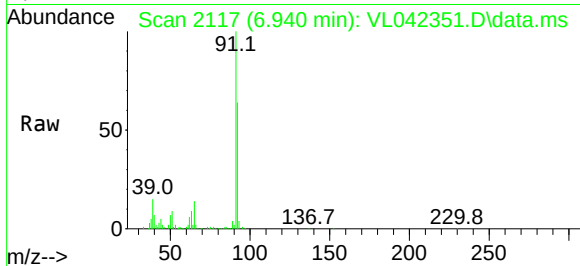
Tgt Ion:164 Resp: 14154
Ion Ratio Lower Upper
164 100
166 107.7 98.2 147.2
129 104.2 81.8 122.8
131 105.8 80.5 120.7





#53
Toluene
Concen: 1.001 ppbv
RT: 6.940 min Scan# 2115
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

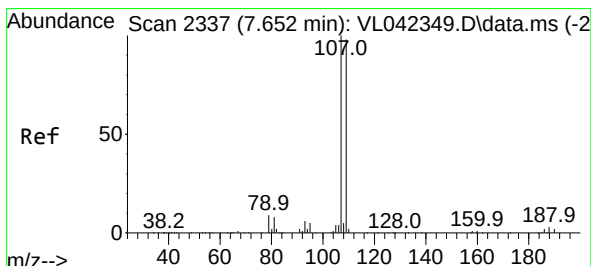
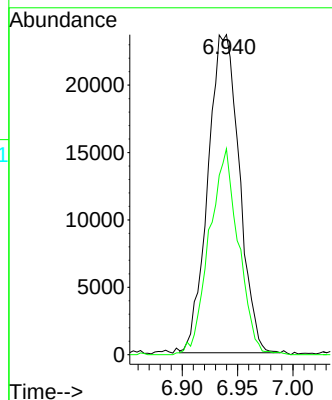
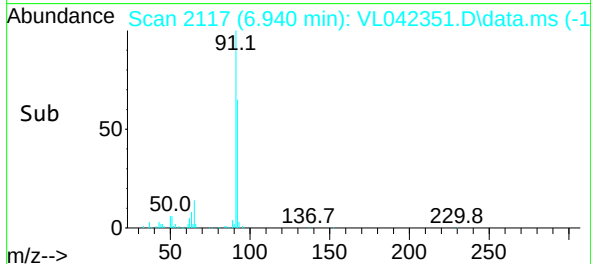
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



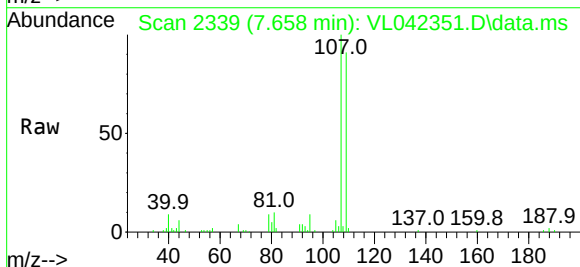
Tgt Ion: 91 Resp: 4661
Ion Ratio Lower Upper
91 100
92 60.4 48.2 72.4

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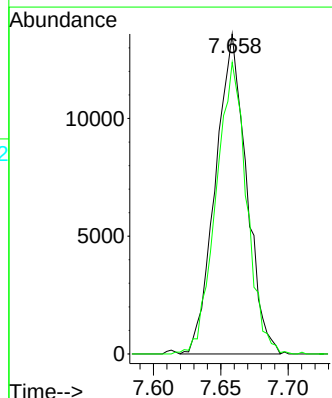
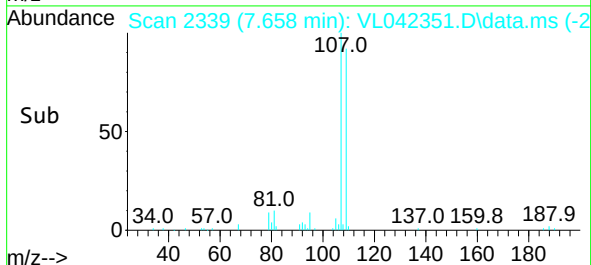
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

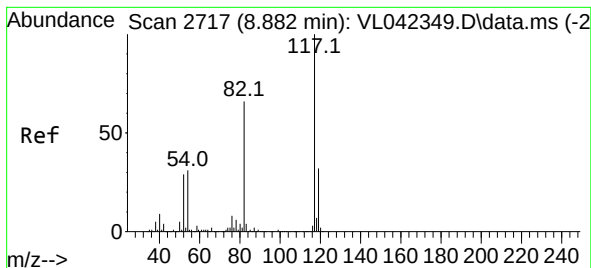


#54
1,2-Dibromoethane
Concen: 1.036 ppbv
RT: 7.658 min Scan# 2339
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48



Tgt Ion:107 Resp: 21780
Ion Ratio Lower Upper
107 100
109 90.7 78.2 117.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.885 min Scan# 2717

Delta R.T. 0.004 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion:117 Resp: 329090

Ion Ratio Lower Upper

117 100

82 69.7 57.8 86.6

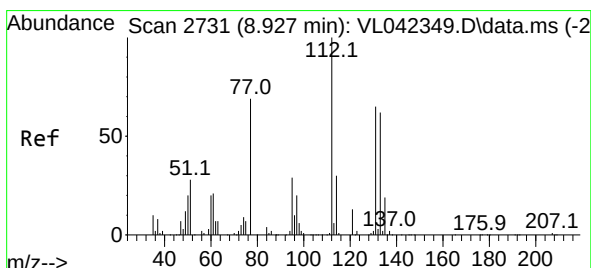
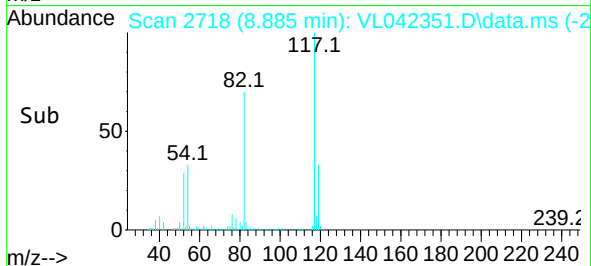
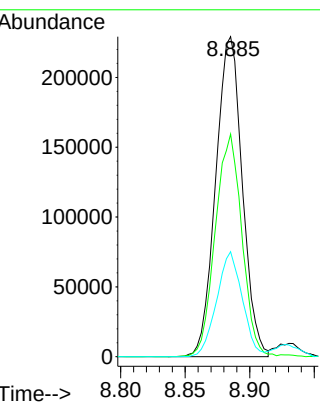
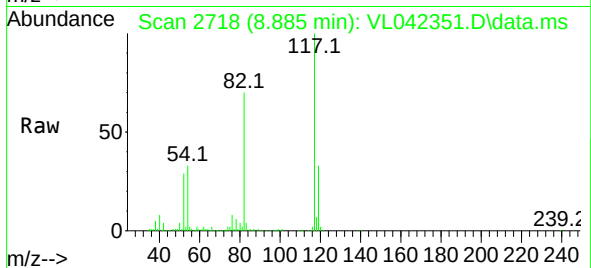
119 31.8 25.2 37.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#56

1,1,1,2-Tetrachloroethane

Concen: 1.057 ppbv

RT: 8.927 min Scan# 2731

Delta R.T. 0.000 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

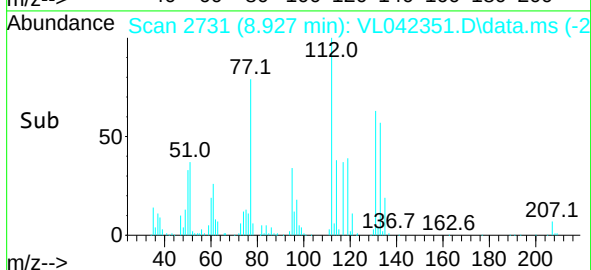
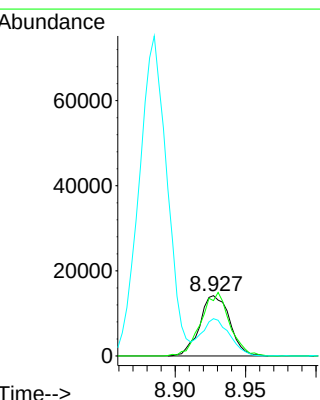
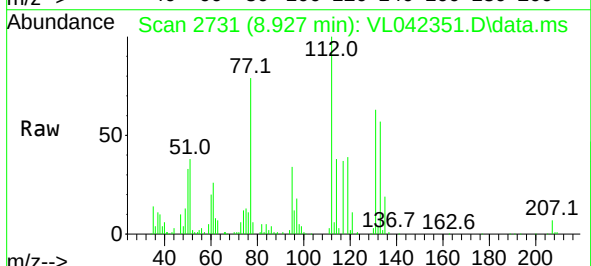
Tgt Ion:131 Resp: 21052

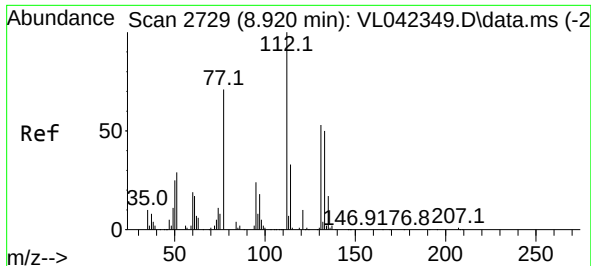
Ion Ratio Lower Upper

131 100

133 100.5 78.3 117.5

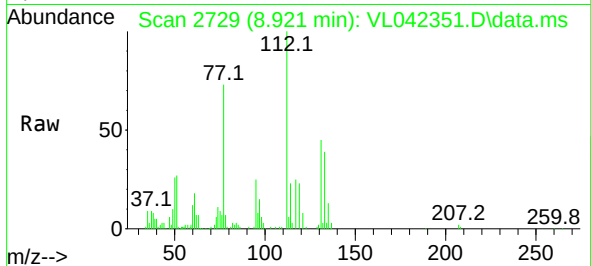
119 55.1 48.7 73.1





#57
Chlorobenzene
Concen: 1.026 ppbv
RT: 8.921 min Scan# 2729
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

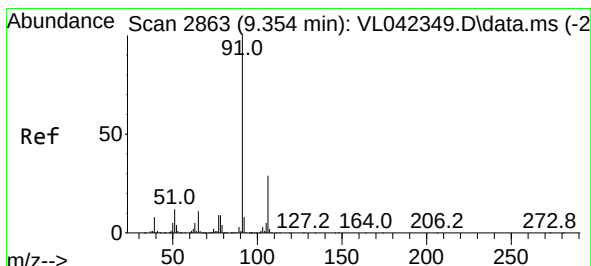
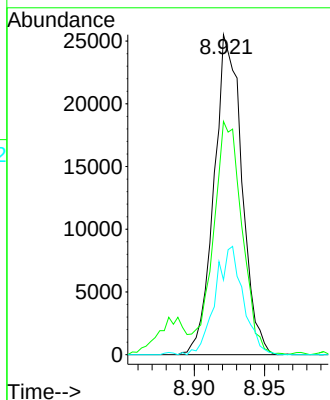
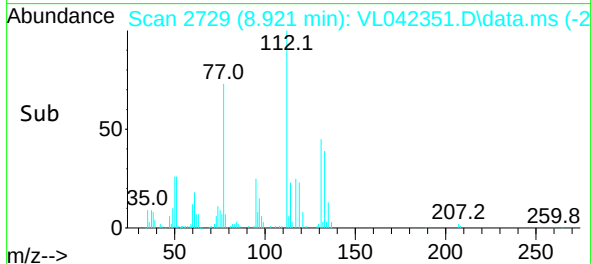
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



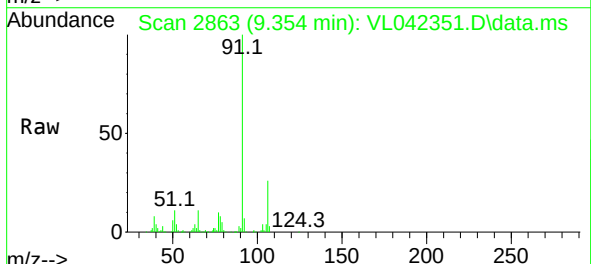
Tgt Ion: 112 Resp: 3511
Ion Ratio Lower Upper
112 100
77 72.4 57.8 86.6
114 23.3 29.3 35.9

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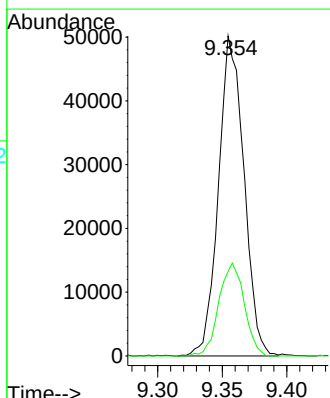
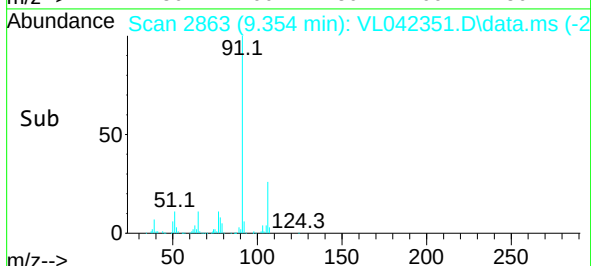
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

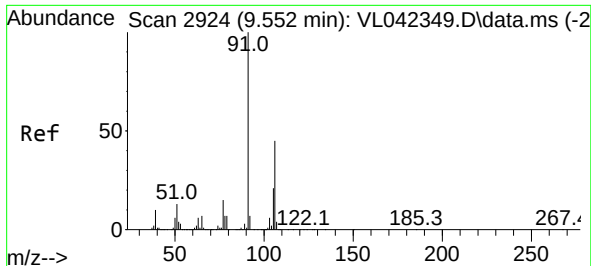


#58
Ethyl Benzene
Concen: 1.054 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48



Tgt Ion: 91 Resp: 68703
Ion Ratio Lower Upper
91 100
106 26.5 23.0 34.4





#59

m/p-Xylene

Concen: 2.101 ppbv m

RT: 9.552 min Scan# 2924

Delta R.T. 0.000 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

Tgt Ion: 91 Resp: 11070

Ion Ratio Lower Upper

91 100

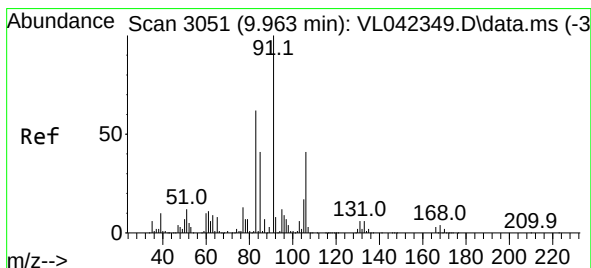
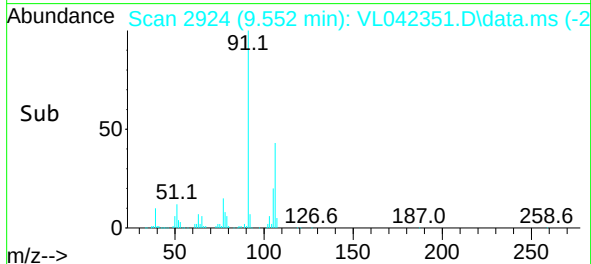
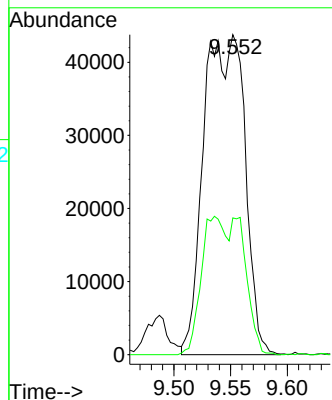
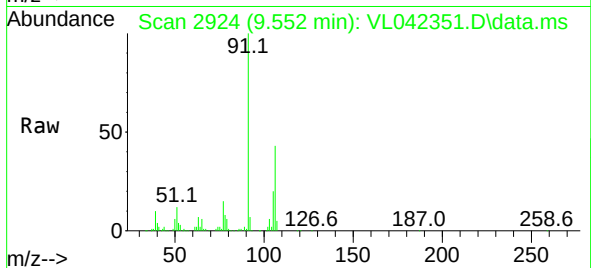
106 0.0 35.4 53.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#60

o-Xylene

Concen: 1.056 ppbv

RT: 9.966 min Scan# 3052

Delta R.T. 0.004 min

Lab File: VL042351.D

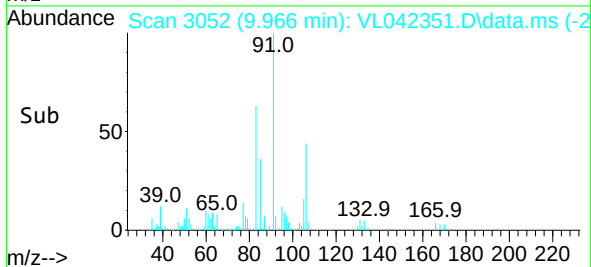
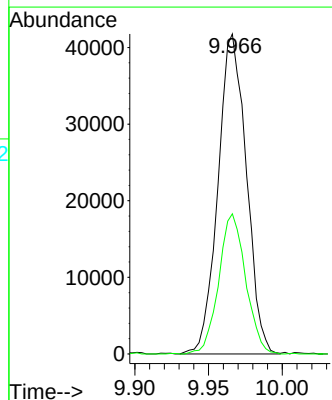
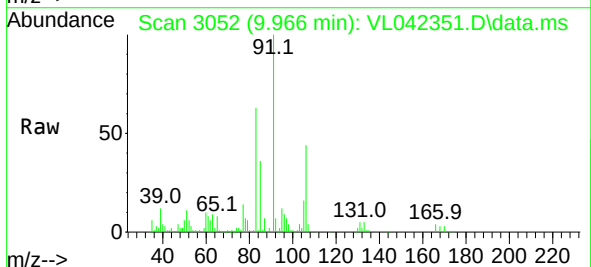
Acq: 17 Apr 2025 10:48

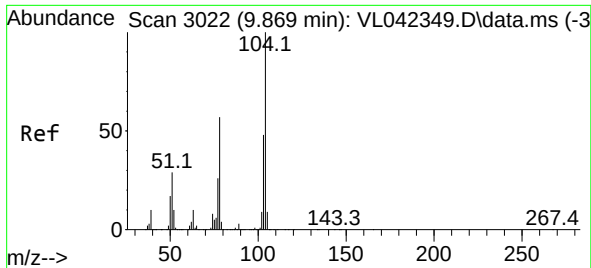
Tgt Ion: 91 Resp: 55831

Ion Ratio Lower Upper

91 100

106 41.6 21.1 63.4





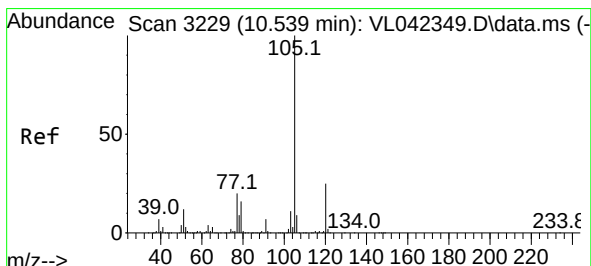
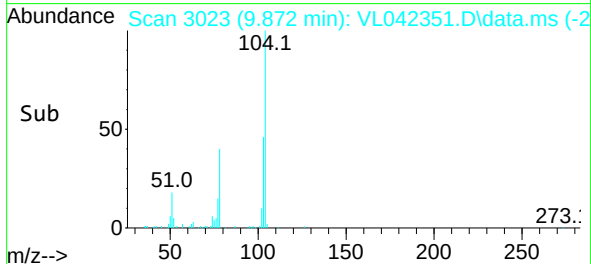
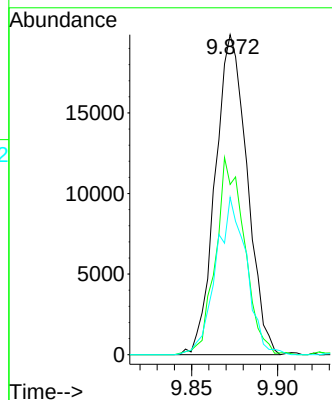
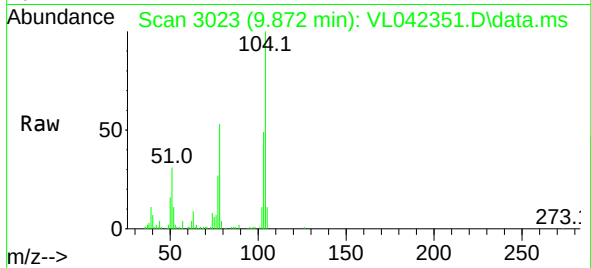
#61
Styrene
Concen: 1.012 ppbv
RT: 9.872 min Scan# 3022
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion:104 Resp: 25544
Ion Ratio Lower Upper
104 100
78 55.7 44.6 66.8
103 47.2 37.4 56.0

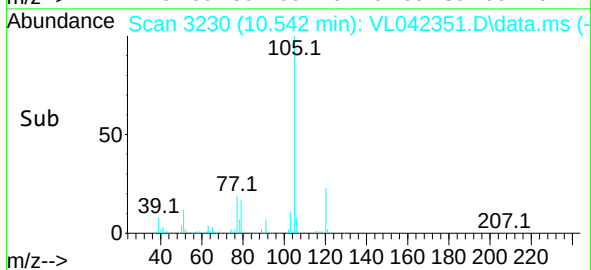
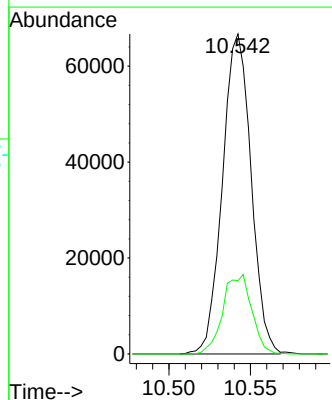
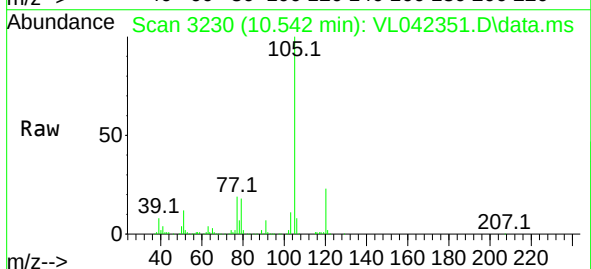
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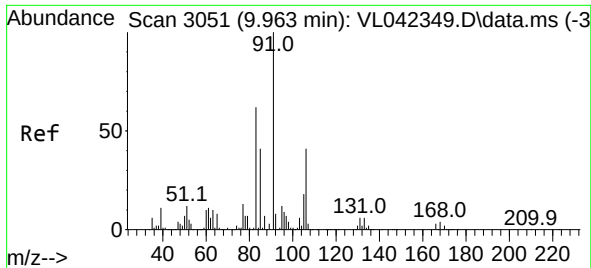
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#62
Isopropylbenzene
Concen: 1.047 ppbv
RT: 10.542 min Scan# 3230
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

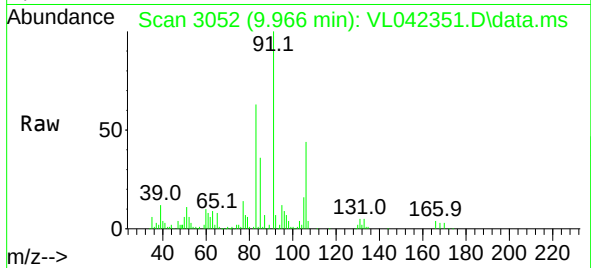
Tgt Ion:105 Resp: 81286
Ion Ratio Lower Upper
105 100
120 25.0 19.8 29.8





#63
1,1,2,2-Tetrachloroethane
Concen: 0.943 ppbv
RT: 9.966 min Scan# 3051
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

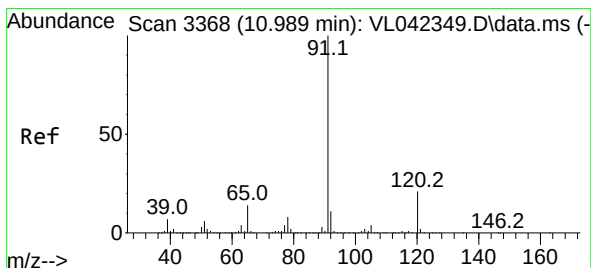
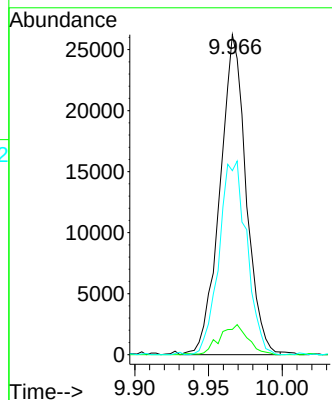
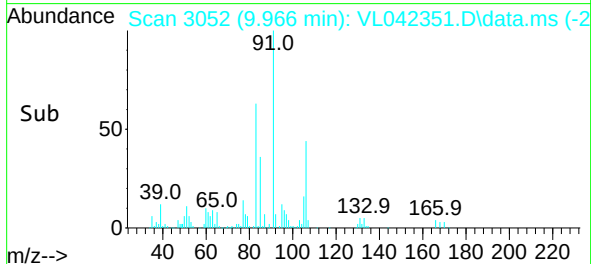
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



Tgt Ion: 83 Resp: 32410
Ion Ratio Lower Upper
83 100
131 10.2 4.5 13.7
85 64.4 32.4 97.0

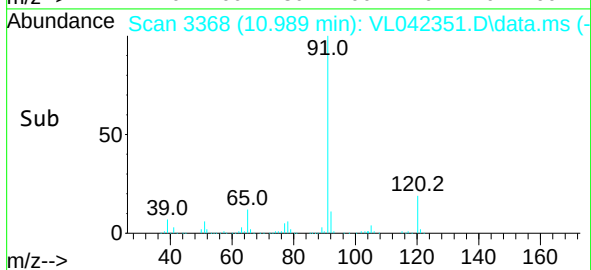
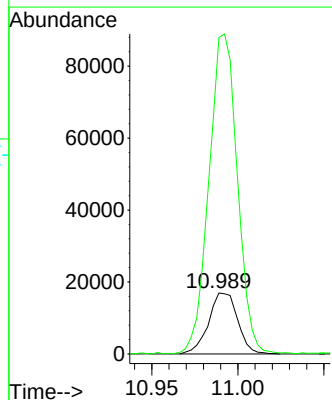
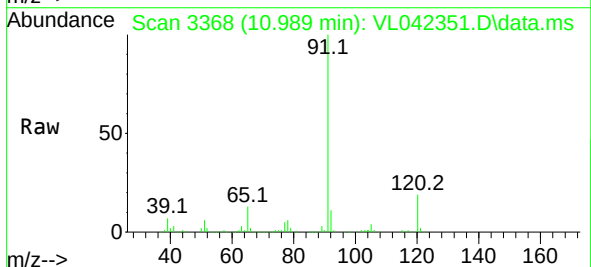
Manual Integrations
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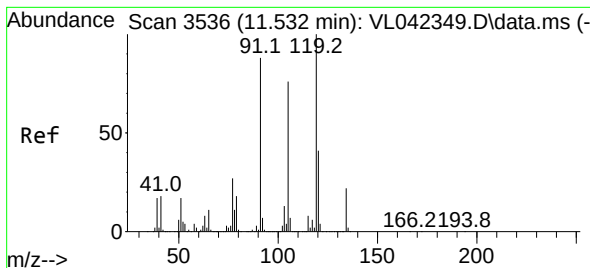
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#64
n-propylbenzene
Concen: 1.019 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

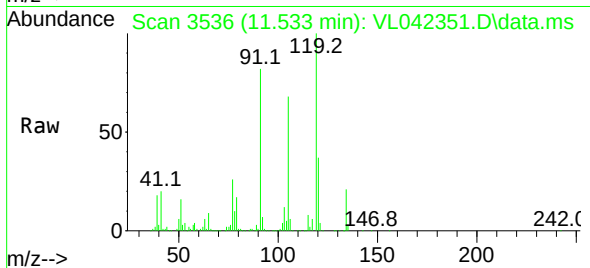
Tgt Ion:120 Resp: 19898
Ion Ratio Lower Upper
120 100
91 517.6 392.4 588.6





#65
tert-Butylbenzene
Concen: 1.087 ppbv
RT: 11.533 min Scan# 3536
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

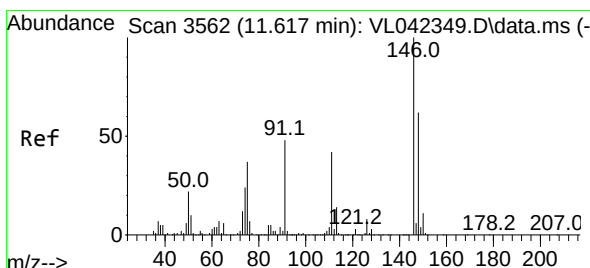
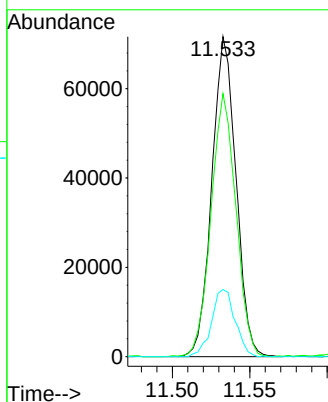
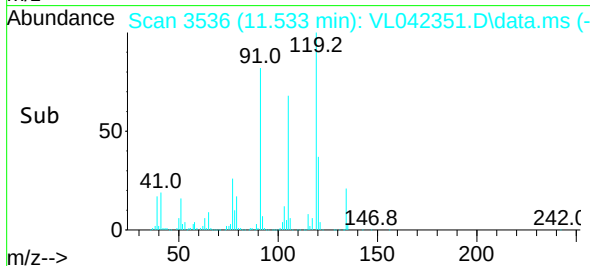
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



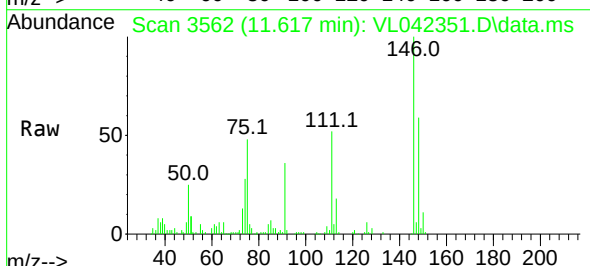
Tgt Ion:119 Resp: 77598
Ion Ratio Lower Upper
119 100
91 85.0 74.6 111.8
134 20.5 18.8 28.2

Manual Integrations
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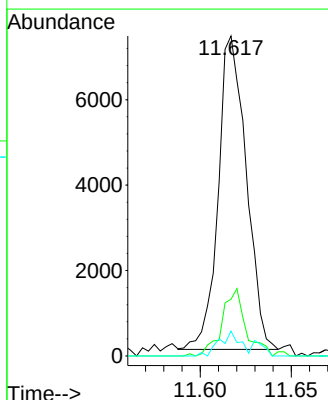
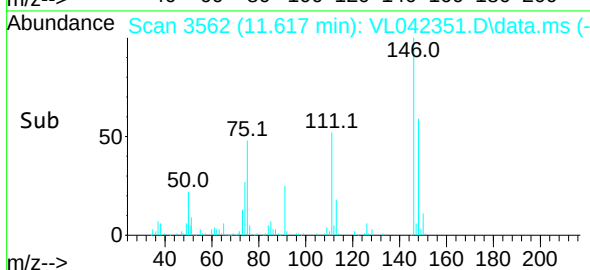
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

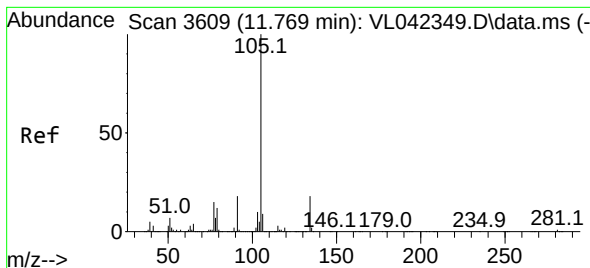


#66
Benzyl Chloride
Concen: 1.003 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48



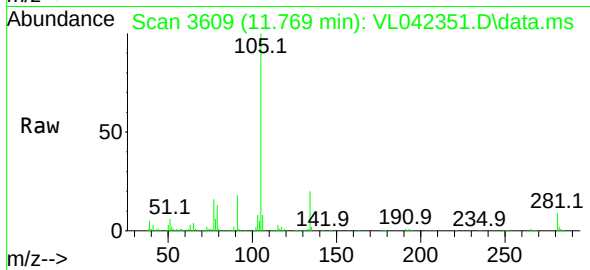
Tgt Ion: 91 Resp: 7864
Ion Ratio Lower Upper
91 100
126 18.6 11.8 17.6#
128 7.7 4.5 6.7#





#67
sec-Butylbenzene
Concen: 1.067 ppbv
RT: 11.769 min Scan# 3609
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

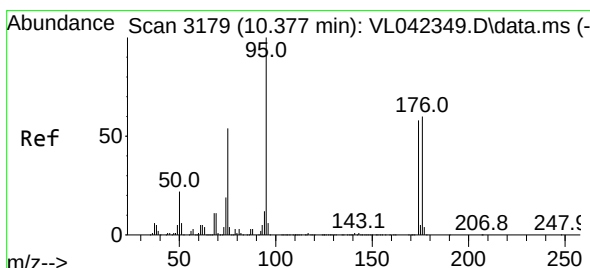
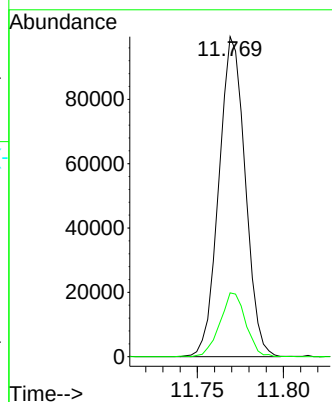
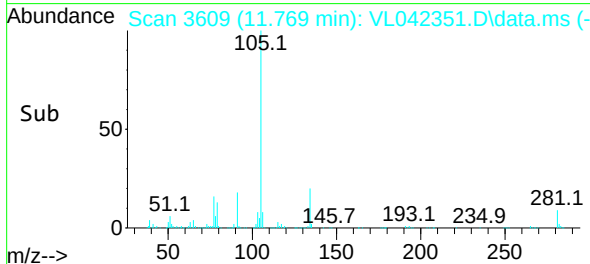
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



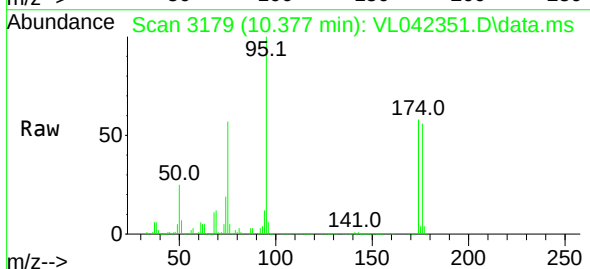
Tgt Ion:105 Resp: 105919
Ion Ratio Lower Upper
105 100
134 19.6 14.6 21.8

Manual Integrations
APPROVED

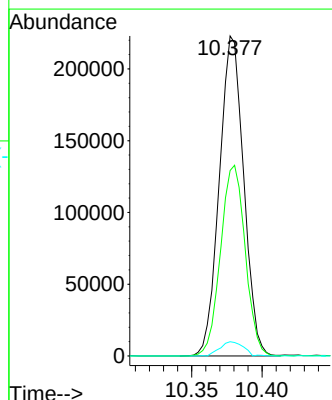
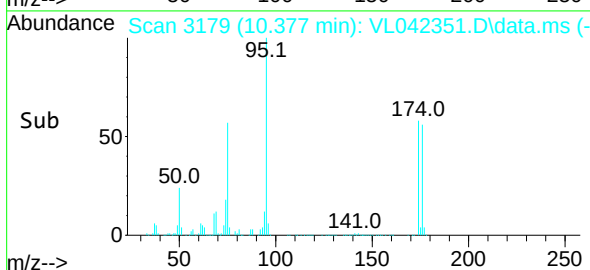
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

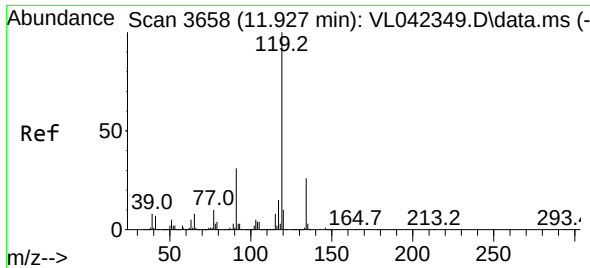


#68
1-Bromo-4-Fluorobenzene
Concen: 9.950 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48



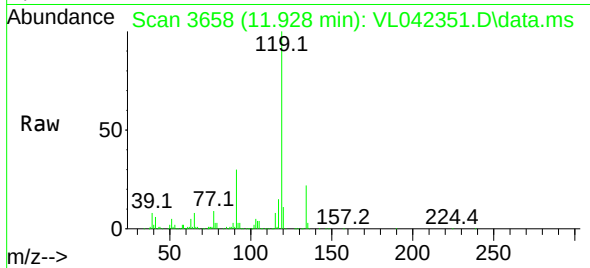
Tgt Ion: 95 Resp: 269087
Ion Ratio Lower Upper
95 100
174 60.4 48.5 72.7
175 4.3 3.7 5.5





#69
p-Isopropyltoluene
Concen: 1.075 ppbv
RT: 11.928 min Scan# 3658
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

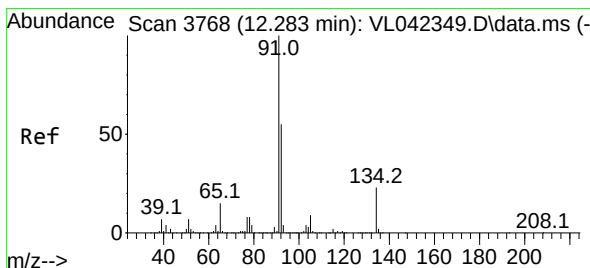
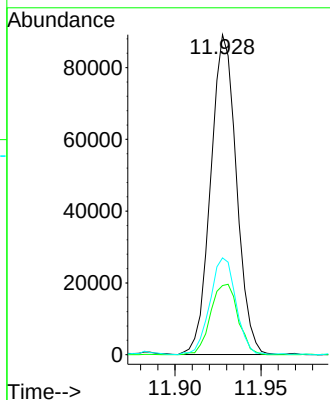
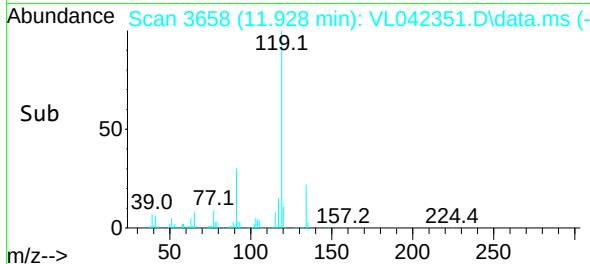
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



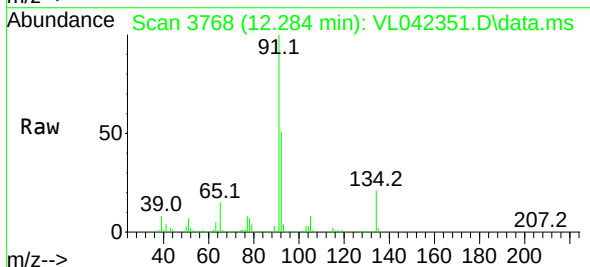
Tgt Ion: 119 Resp: 92733
Ion Ratio Lower Upper
119 100
134 23.5 20.0 30.0
91 32.1 24.4 36.6

Manual Integrations
APPROVED

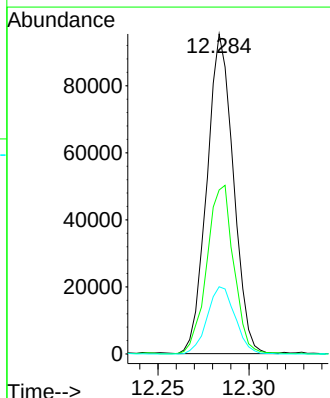
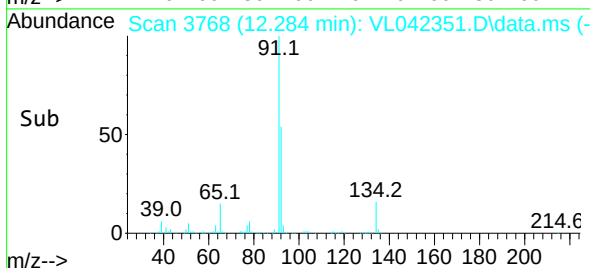
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

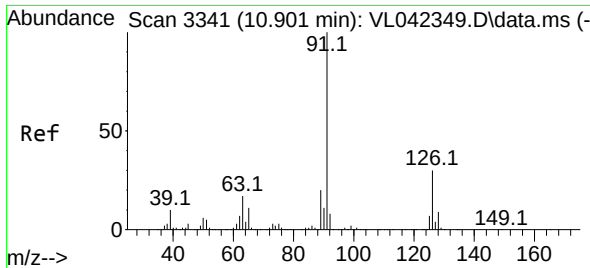


#70
n-Butylbenzene
Concen: 1.072 ppbv
RT: 12.284 min Scan# 3768
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48



Tgt Ion: 91 Resp: 96306
Ion Ratio Lower Upper
91 100
92 54.2 44.2 66.4
134 22.1 18.2 27.4





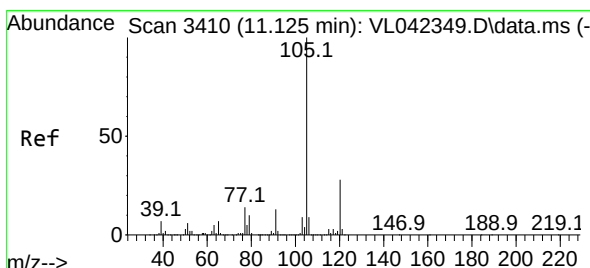
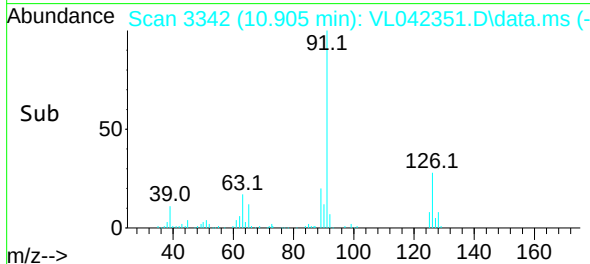
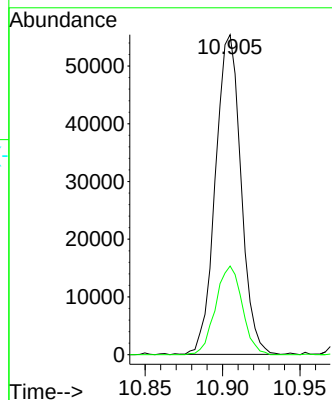
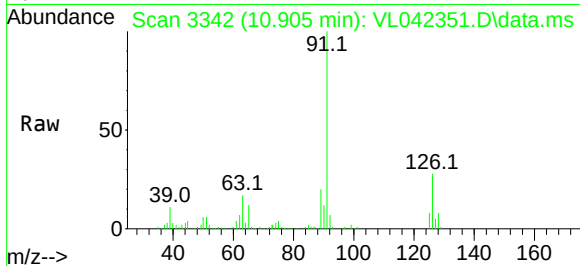
#71
2-Chlorotoluene
Concen: 1.040 ppbv
RT: 10.905 min Scan# 31
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 91 Resp: 6332
Ion Ratio Lower Upper
91 100
126 28.9 11.4 45.4

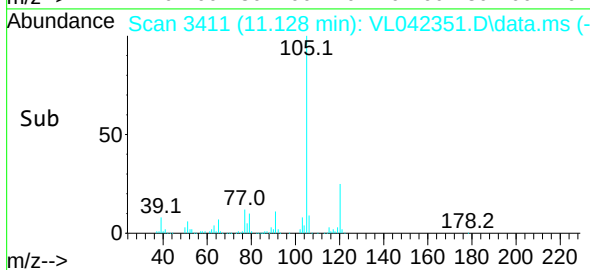
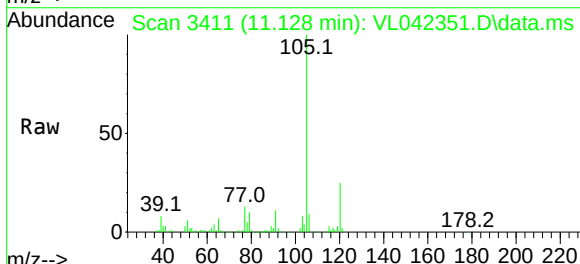
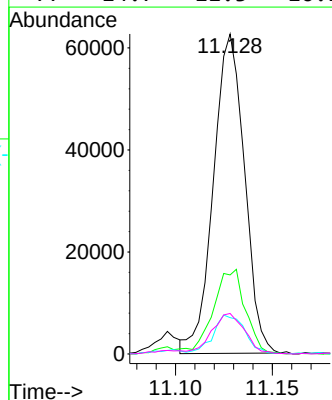
Manual Integrations
APPROVED

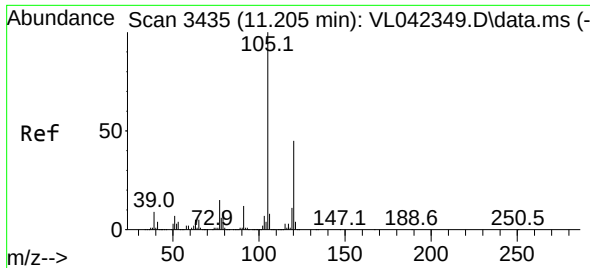
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#72
4-Ethyltoluene
Concen: 1.078 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:105 Resp: 69698
Ion Ratio Lower Upper
105 100
120 29.2 23.2 34.8
91 13.5 10.4 15.6
77 14.7 11.3 16.9





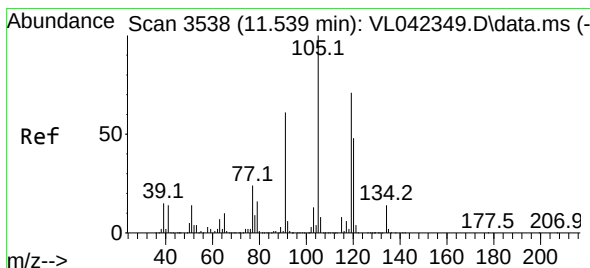
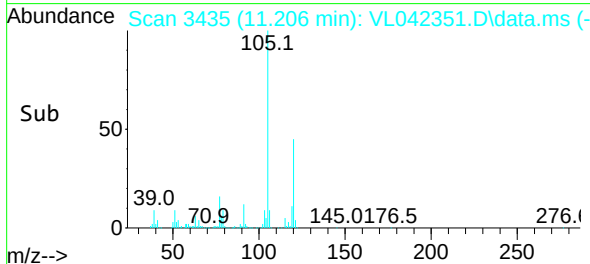
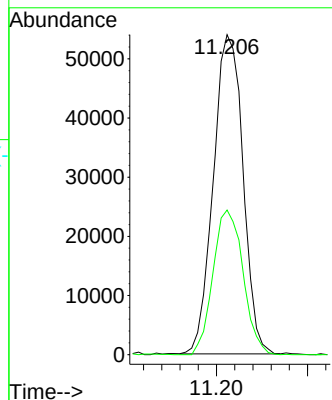
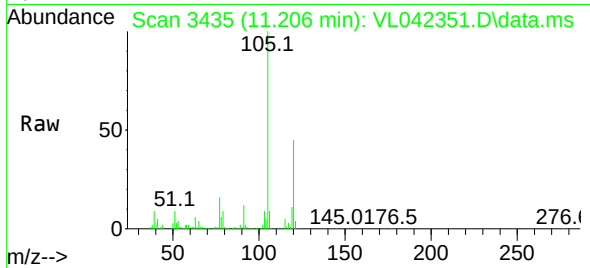
#73
1,3,5-Trimethylbenzene
Concen: 1.067 ppbv
RT: 11.206 min Scan# 3435
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

Tgt Ion:105 Resp: 6092
Ion Ratio Lower Upper
105 100
120 45.3 35.6 53.4

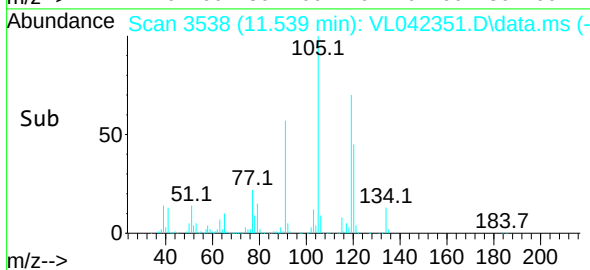
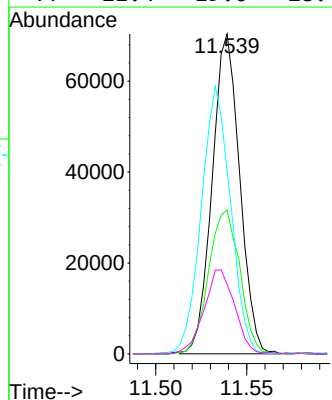
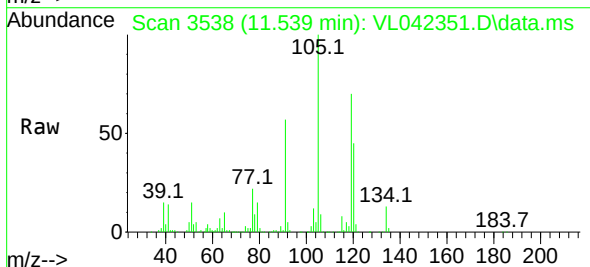
Manual Integrations
APPROVED

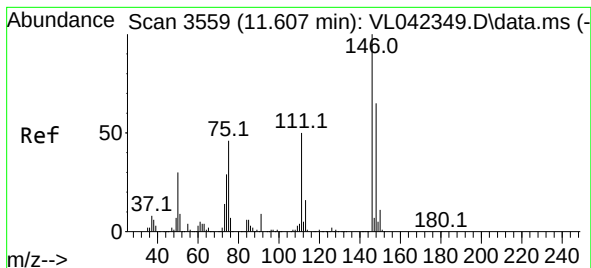
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#74
1,2,4-Trimethylbenzene
Concen: 1.108 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:105 Resp: 73888
Ion Ratio Lower Upper
105 100
120 45.0 38.1 57.1
91 57.0 48.8 73.2
77 21.4 19.0 28.4





#75

1,3-Dichlorobenzene

Concen: 1.064 ppbv

RT: 11.610 min Scan# 3559

Delta R.T. 0.004 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Instrument :

MSVOA_L

ClientSampleId :

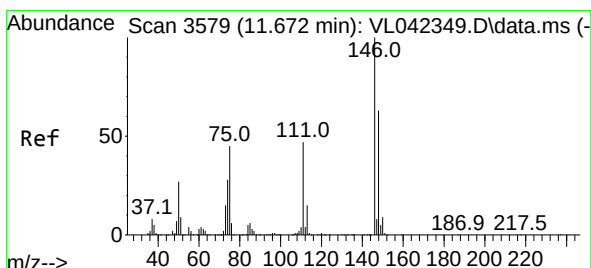
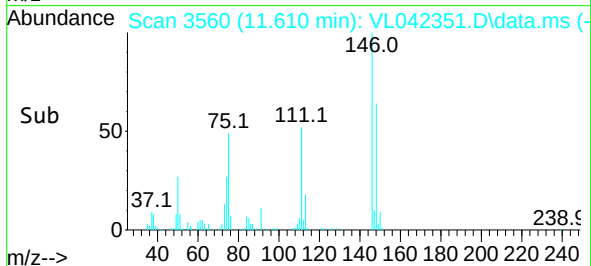
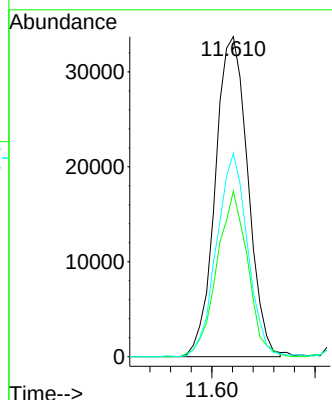
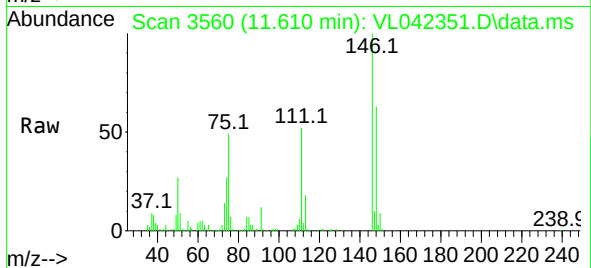
VSTDICC001

Tgt Ion:146	Resp:	3687
Ion Ratio	Lower	Upper
146	100	
111	48.9	24.3 72.8
148	60.8	31.6 94.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#76

1,4-Dichlorobenzene

Concen: 1.053 ppbv

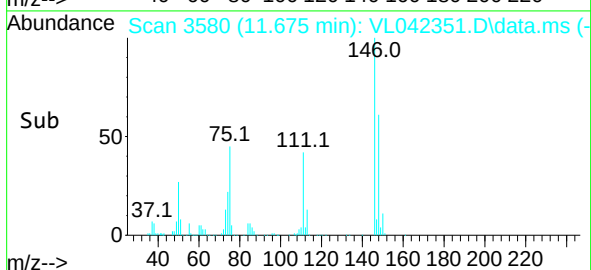
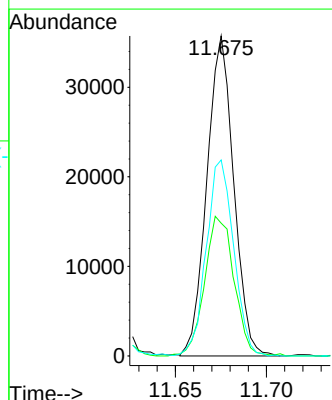
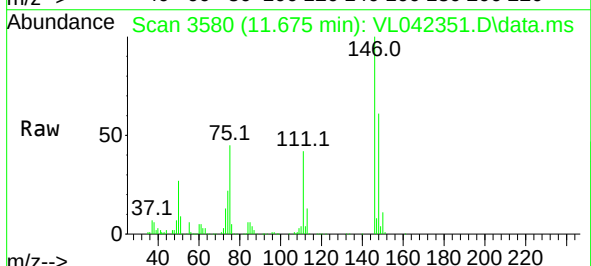
RT: 11.675 min Scan# 3580

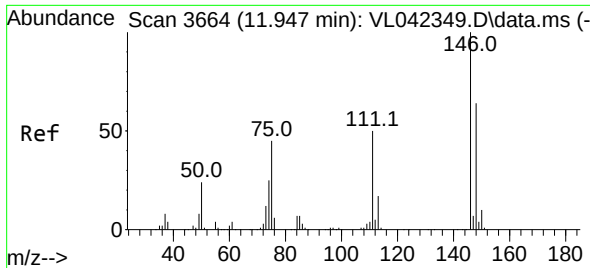
Delta R.T. 0.004 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

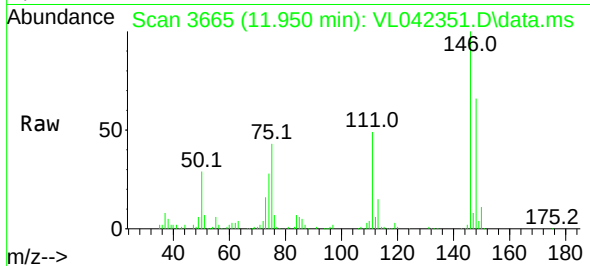
Tgt Ion:146	Resp:	36692
Ion Ratio	Lower	Upper
146	100	
111	47.7	24.2 72.6
148	62.3	32.1 96.5





#77
1,2-Dichlorobenzene
Concen: 1.068 ppbv
RT: 11.950 min Scan# 30
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

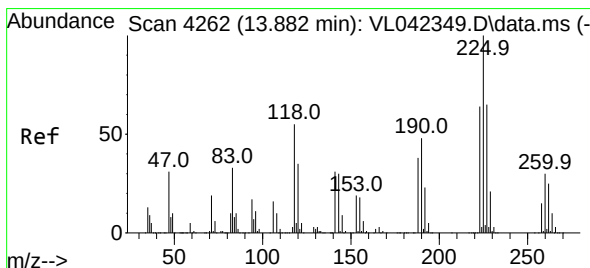
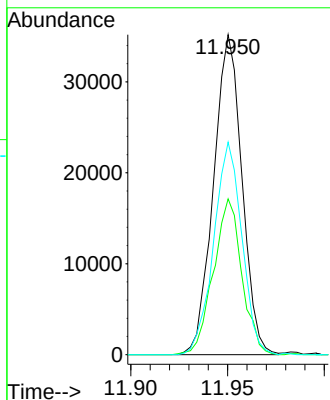
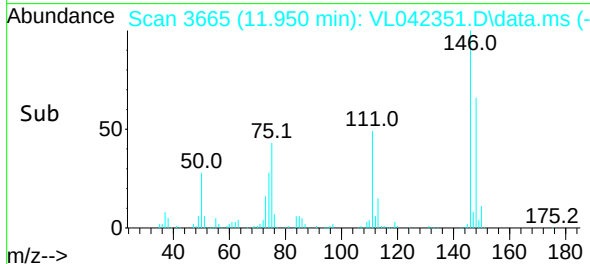
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



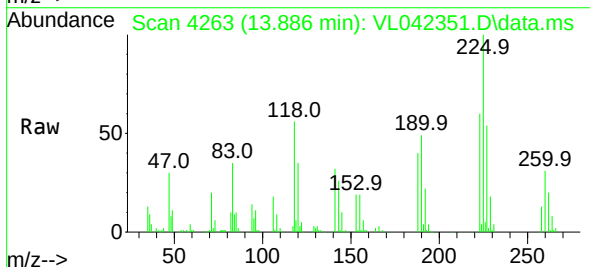
Tgt Ion:146 Resp: 3597
Ion Ratio Lower Upper
146 100
111 48.7 25.3 75.9
148 65.9 31.5 94.5

Manual Integrations
APPROVED

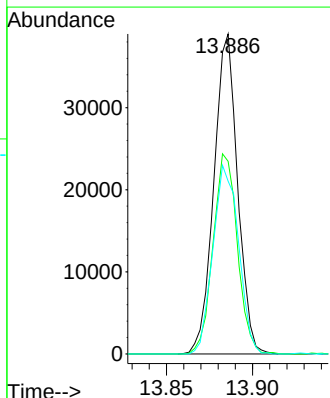
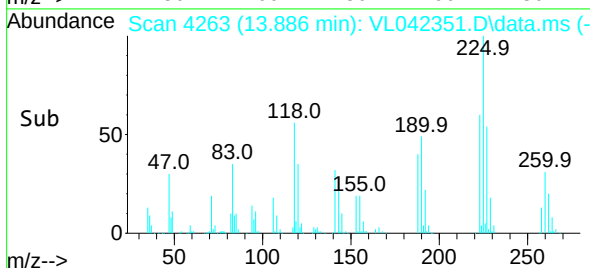
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

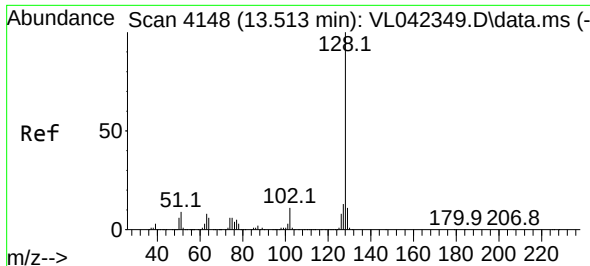


#78
Hexachloro-1,3-Butadiene
Concen: 1.098 ppbv
RT: 13.886 min Scan# 4263
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48



Tgt Ion:225 Resp: 37377
Ion Ratio Lower Upper
225 100
223 64.1 50.3 75.5
227 63.6 51.5 77.3





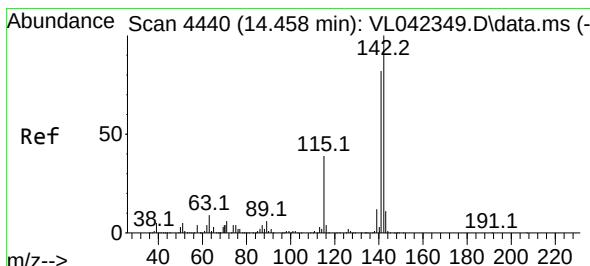
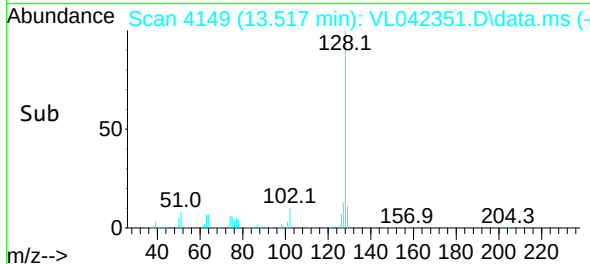
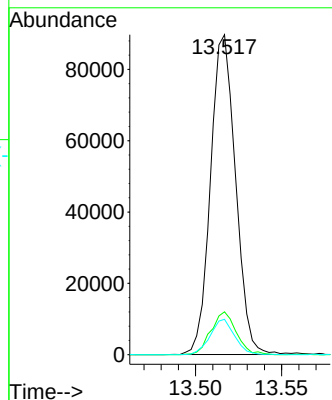
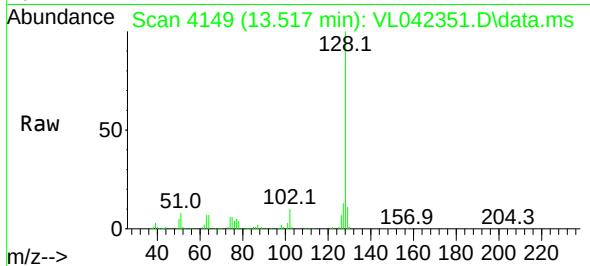
#79
Naphthalene
Concen: 1.138 ppbv
RT: 13.517 min Scan# 4148
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion:128 Resp: 90710
Ion Ratio Lower Upper
128 100
127 13.4 10.6 15.8
129 11.1 8.6 12.8

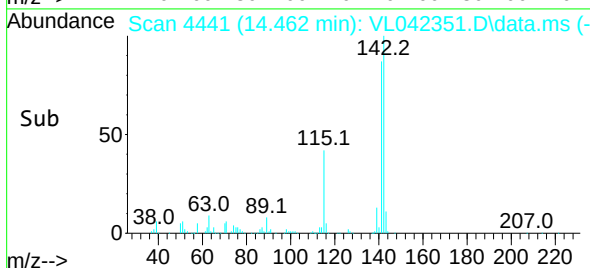
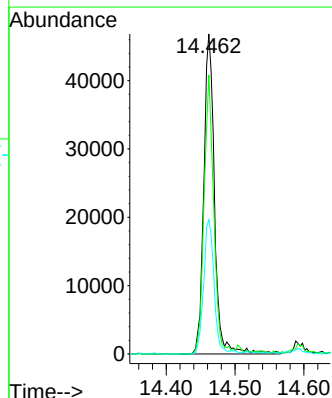
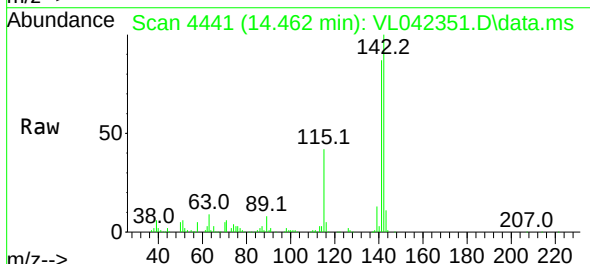
Manual Integrations
APPROVED

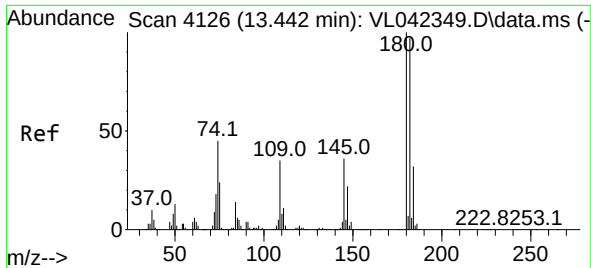
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#80
Naphthalene,2-methyl-
Concen: 1.111 ppbv
RT: 14.462 min Scan# 4441
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:142 Resp: 50487
Ion Ratio Lower Upper
142 100
141 80.9 66.8 100.2
115 41.2 33.4 50.2





#81

1,2,4-Trichlorobenzene

Concen: 1.074 ppbv

RT: 13.442 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL042351.D

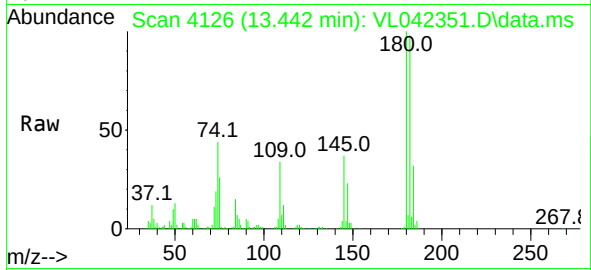
Acq: 17 Apr 2025 10:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001



Tgt Ion:180 Resp: 36764

Ion Ratio Lower Upper

180 100

182 97.0 76.8 115.2

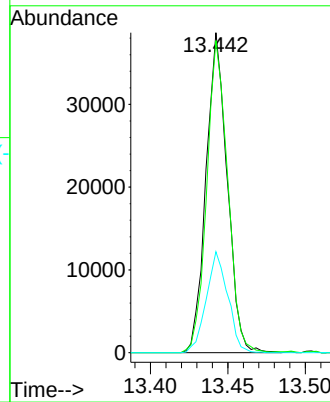
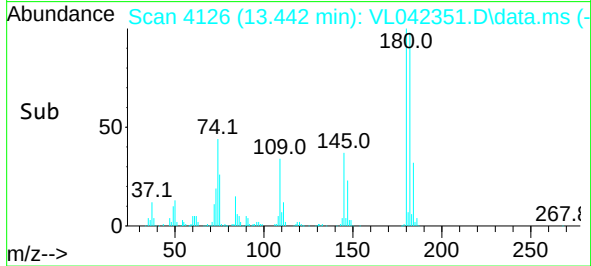
184 32.0 24.6 36.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042352.D
 Acq On : 17 Apr 2025 11:19
 Operator : SY/MD
 Sample : VSTDIC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 04/18/2025
 Supervised By : Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 01:28:45 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025

QLast Update : Fri Apr 18 01:24:29 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	120542	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	353137	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	321644	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.374 95 265161 10.032 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	11036	0.518	ppbv	92
3) Chlorodifluoromethane	1.476	51	11304	0.557	ppbv #	84
4) Chloromethane	1.531	50	4534	0.538	ppbv	97
5) Vinyl Chloride	1.580	62	4406	0.480	ppbv	97
6) Bromomethane	1.667	94	2394	0.602	ppbv	95
7) Chloroethane	1.703	64	1824	0.550	ppbv #	87
8) Dichlorotetrafluoroethane	1.554	85	9381	0.513	ppbv	99
9) Propene	1.483	41	5303	0.574	ppbv	93
10) Heptane	4.978	43	14728m	0.593	ppbv	
11) Trichlorofluoromethane	1.877	101	10150	0.501	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.136	101	8371	0.506	ppbv	93
13) Ethanol	1.719	45	1656m	2.194	ppbv	
14) Bromoethene	1.780	108	3238	0.519	ppbv #	93
15) Acetone	1.835	43	11859	0.601	ppbv #	74
16) 1,3-Butadiene	1.609	39	6120	0.660	ppbv #	82
17) tert-Butyl alcohol	2.043	59	13640	0.558	ppbv #	85
18) 1,1-Dichloroethene	2.033	96	4430	0.556	ppbv #	87
19) Isopropyl Alcohol	1.884	45	6327	0.577	ppbv #	39
20) Methylene Chloride	2.059	84	5273	0.682	ppbv	93
21) Allyl Chloride	2.094	41	7692	0.565	ppbv #	81
22) trans-1,2-Dichloroethene	2.340	96	4908	0.557	ppbv	92
23) Vinyl Acetate	2.460	43	3953	0.495	ppbv #	57
24) 1,1-Dichloroethane	2.408	63	8753	0.523	ppbv #	94
25) Ethyl Acetate	2.835	43	26686	0.548	ppbv #	93
26) Hexane	2.823	57	11448	0.581	ppbv	91
27) Carbon Disulfide	2.149	76	11472	0.544	ppbv #	1
28) Methyl tert-Butyl Ether	2.441	73	6833	0.530	ppbv #	32
29) Chloroform	2.848	83	14815	0.532	ppbv	93
30) Cyclohexane	3.852	84	8572	0.541	ppbv	94
31) cis-1,2-Dichloroethene	2.722	61	9571	0.511	ppbv	96
32) 1,1,1-Trichloroethane	3.370	97	15413	0.516	ppbv	97
34) 2-Butanone	2.560	43	15640	0.560	ppbv	97
35) Carbon Tetrachloride	3.761	117	14683	0.459	ppbv	87
36) Benzene	3.651	78	20233	0.531	ppbv	97
37) 1,2-Dichloroethane	3.217	62	12194	0.533	ppbv #	95
38) Trichloroethene	4.551	130	7819	0.468	ppbv #	78
39) 1,2-Dichloropropane	4.308	63	7790m	0.548	ppbv	
40) 1,4-Dioxane	4.599	88	4637m	0.603	ppbv	
41) Tetrahydrofuran	3.062	42	9144m	0.567	ppbv	
42) Bromodichloromethane	4.489	83	16642	0.523	ppbv #	91
43) Methyl Methacrylate	4.881	69	9620m	0.563	ppbv	
44) 2,2,4-Trimethylpentane	4.635	57	34170	0.519	ppbv	91
45) t-1,3-Dichloropropene	6.415	75	9073m	0.517	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042352.D
 Acq On : 17 Apr 2025 11:19
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 01:28:45 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

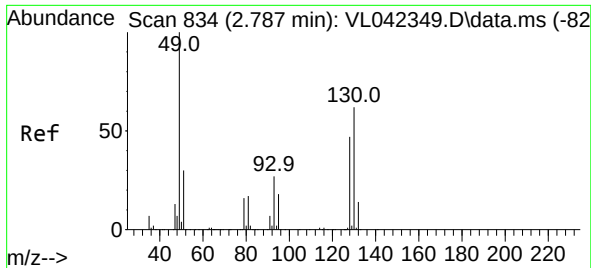
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Fri Apr 18 01:24:29 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.596	75	10827m	0.505	ppbv	
47) 1,1,2-Trichloroethane	6.577	97	7466m	0.516	ppbv	
48) Dibromochloromethane	7.386	129	13122	0.514	ppbv	97
49) Bromoform	9.477	173	10988	0.492	ppbv	99
50) 4-Methyl-2-Pentanone	5.761	43	27206m	0.585	ppbv	
51) 2-Hexanone	7.441	43	23684	0.564	ppbv	98
52) Tetrachloroethene	8.221	164	7412	0.503	ppbv #	88
53) Toluene	6.927	91	24200	0.529	ppbv	97
54) 1,2-Dibromoethane	7.645	107	10282	0.499	ppbv	84
56) 1,1,1,2-Tetrachloroethane	8.930	131	9987	0.513	ppbv #	1
57) Chlorobenzene	8.917	112	18149m	0.543	ppbv	
58) Ethyl Benzene	9.351	91	32624	0.512	ppbv	97
59) m/p-Xylene	9.532	91	54197m	1.053	ppbv	
60) o-Xylene	9.963	91	27983	0.541	ppbv	99
61) Styrene	9.869	104	12736	0.516	ppbv	96
62) Isopropylbenzene	10.539	105	40481	0.533	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.959	83	15920	0.474	ppbv	99
64) n-propylbenzene	10.985	120	10369	0.544	ppbv	97
65) tert-Butylbenzene	11.529	119	37294	0.535	ppbv	93
66) Benzyl Chloride	11.613	91	3878	0.506	ppbv #	91
67) sec-Butylbenzene	11.765	105	52139	0.537	ppbv	97
69) p-Isopropyltoluene	11.924	119	45574	0.541	ppbv	98
70) n-Butylbenzene	12.280	91	48004	0.547	ppbv	99
71) 2-Chlorotoluene	10.898	91	31709	0.533	ppbv	100
72) 4-Ethyltoluene	11.125	105	33048	0.523	ppbv #	95
73) 1,3,5-Trimethylbenzene	11.202	105	30464	0.546	ppbv	99
74) 1,2,4-Trimethylbenzene	11.536	105	37765	0.579	ppbv #	90
75) 1,3-Dichlorobenzene	11.607	146	18003	0.531	ppbv	99
76) 1,4-Dichlorobenzene	11.668	146	18300	0.537	ppbv	96
77) 1,2-Dichlorobenzene	11.947	146	17446	0.530	ppbv	95
78) Hexachloro-1,3-Butadiene	13.879	225	18705	0.562	ppbv	98
79) Naphthalene	13.513	128	38521	0.494	ppbv #	92
80) Naphthalene,2-methyl-	14.458	142	21076	0.475	ppbv	96
81) 1,2,4-Trichlorobenzene	13.442	180	16504	0.493	ppbv	97

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



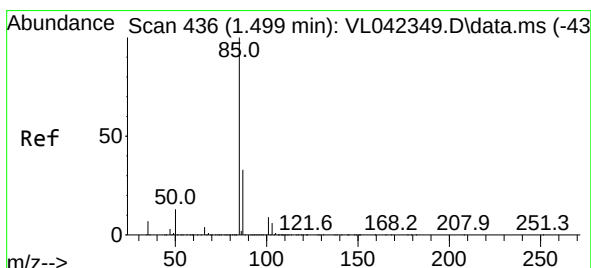
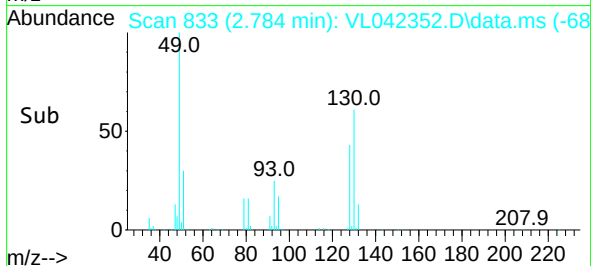
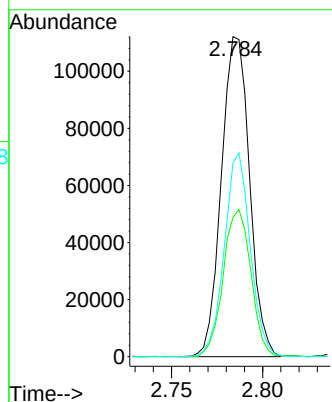
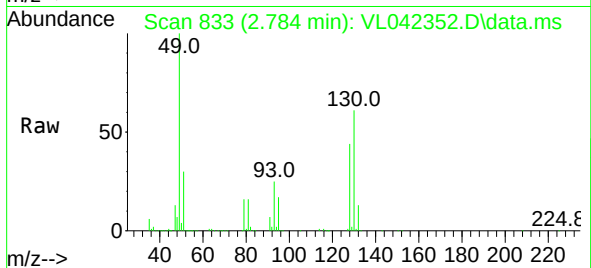
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Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 49 Resp: 12054
Ion Ratio Lower Upper
49 100
128 45.3 22.8 68.4
130 59.0 29.3 88.0

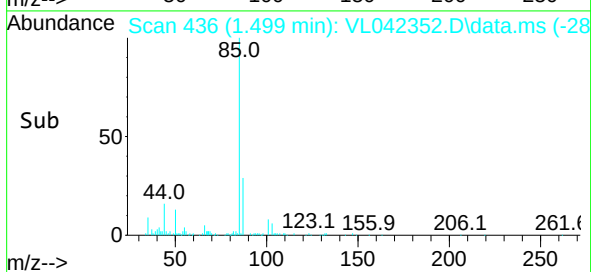
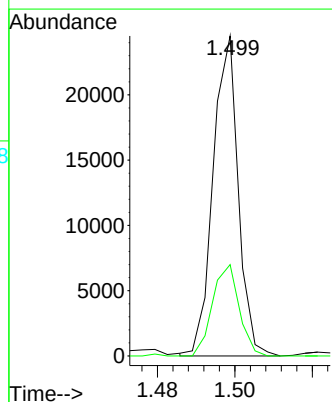
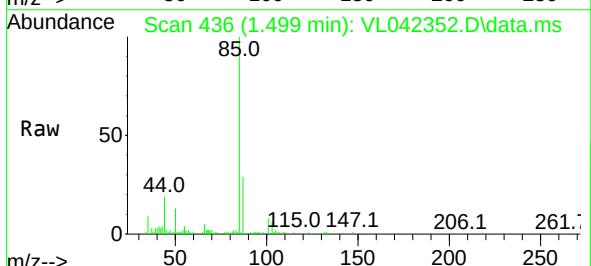
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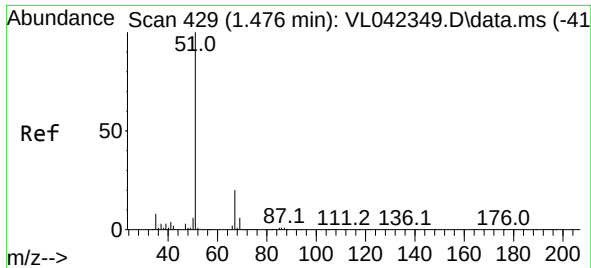
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#2
Dichlorodifluoromethane
Concen: 0.518 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 85 Resp: 11036
Ion Ratio Lower Upper
85 100
87 28.6 26.6 39.8





#3

Chlorodifluoromethane

Concen: 0.557 ppbv

RT: 1.476 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.5

Tgt Ion: 51 Resp: 11304

Ion Ratio Lower Upper

51 100

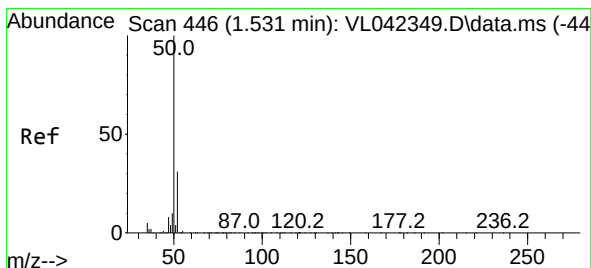
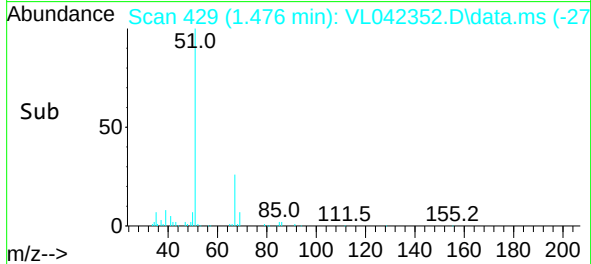
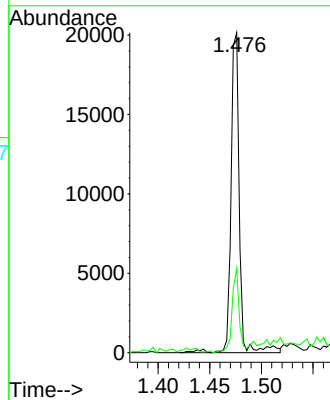
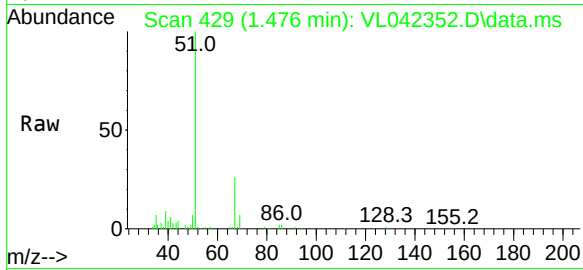
67 27.8 16.2 24.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#4

Chloromethane

Concen: 0.538 ppbv

RT: 1.531 min Scan# 446

Delta R.T. -0.000 min

Lab File: VL042352.D

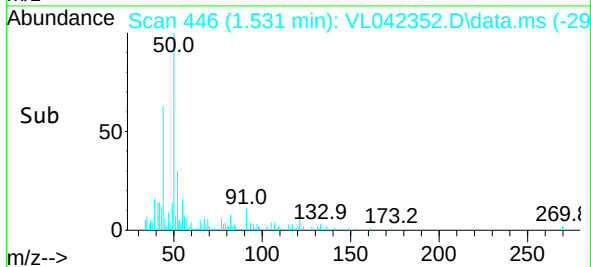
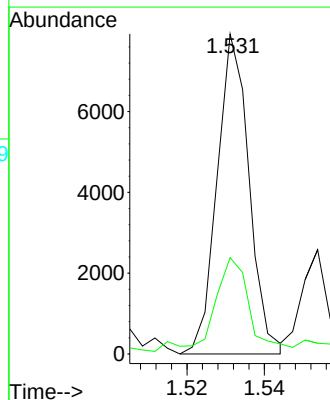
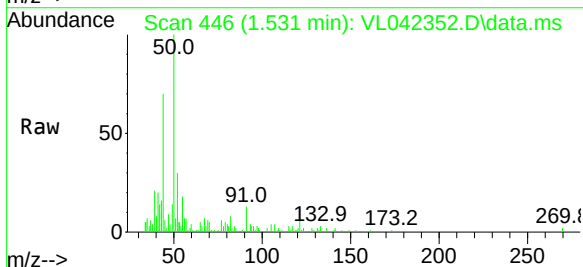
Acq: 17 Apr 2025 11:19

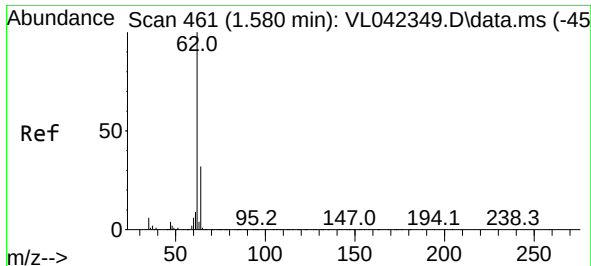
Tgt Ion: 50 Resp: 4534

Ion Ratio Lower Upper

50 100

52 32.8 24.7 37.1





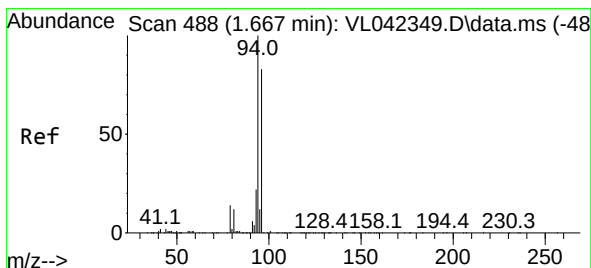
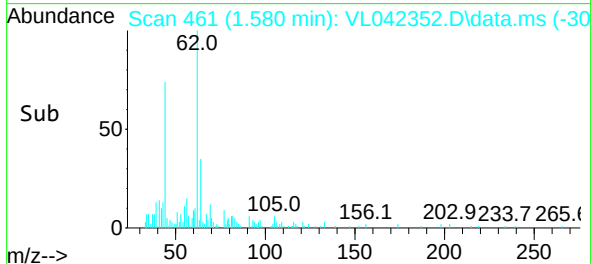
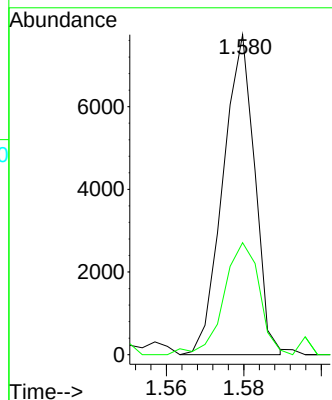
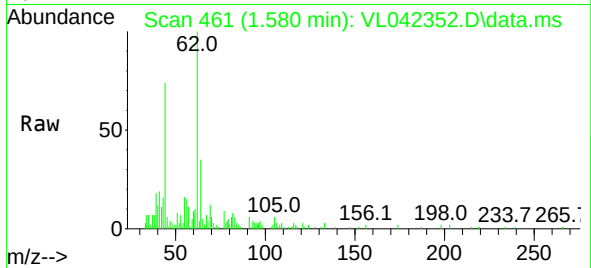
#5
 Vinyl Chloride
 Concen: 0.480 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. -0.000 min
 Lab File: VL042352.D
 Acq: 17 Apr 2025 11:19

Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5

Tgt Ion: 62 Resp: 4400
 Ion Ratio Lower Upper
 62 100
 64 33.5 25.4 38.0

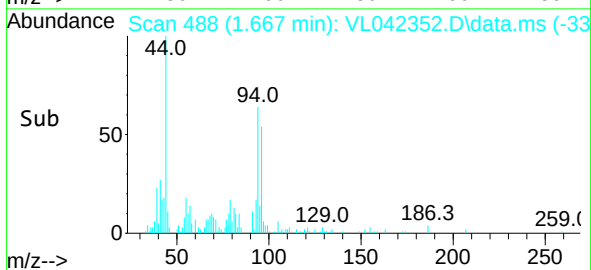
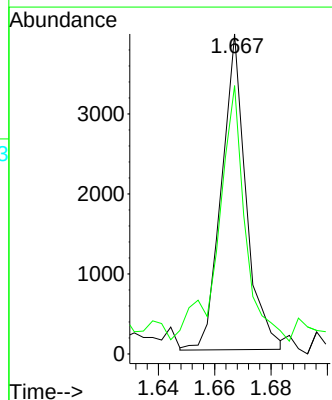
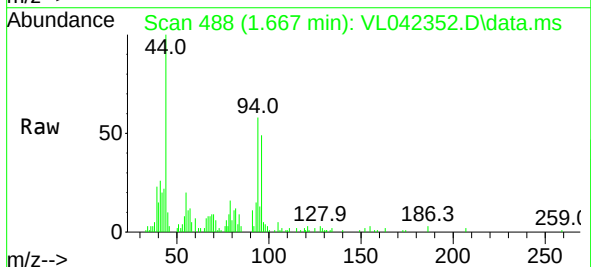
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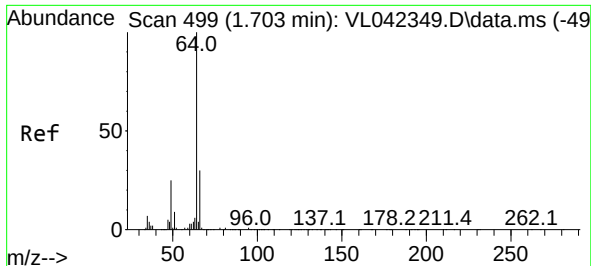
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#6
 Bromomethane
 Concen: 0.602 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. -0.000 min
 Lab File: VL042352.D
 Acq: 17 Apr 2025 11:19

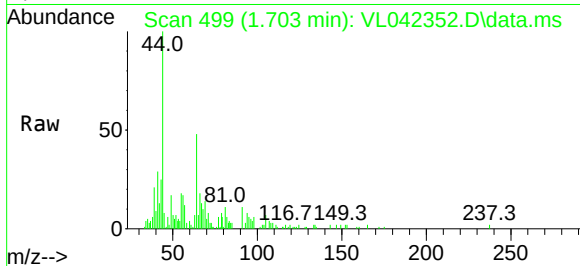
Tgt Ion: 94 Resp: 2394
 Ion Ratio Lower Upper
 94 100
 96 78.1 66.2 99.2





#7
Chloroethane
Concen: 0.550 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

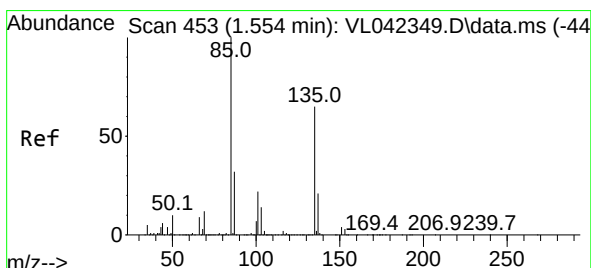
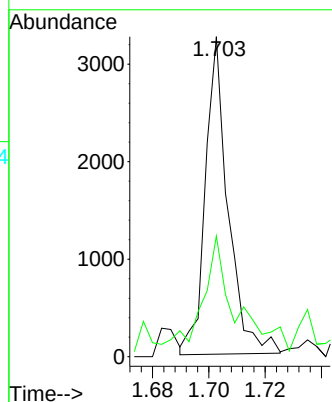
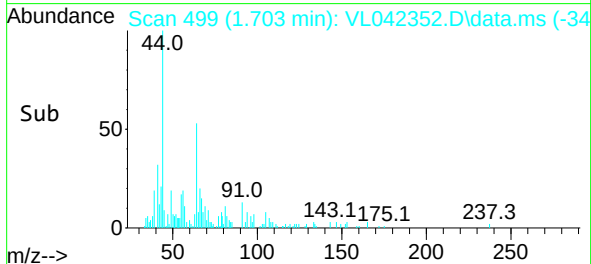
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



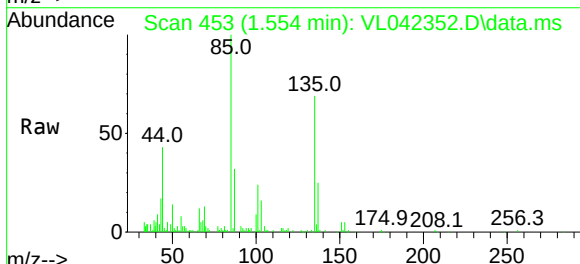
Tgt Ion: 64 Resp: 1824
Ion Ratio Lower Upper
64 100
66 37.7 24.6 37.0

Manual Integrations
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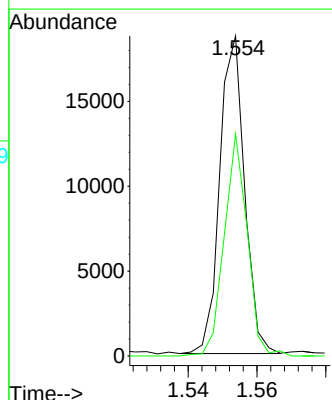
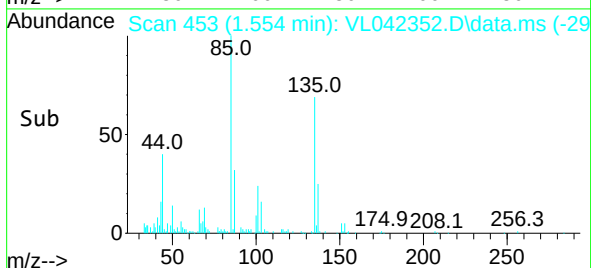
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

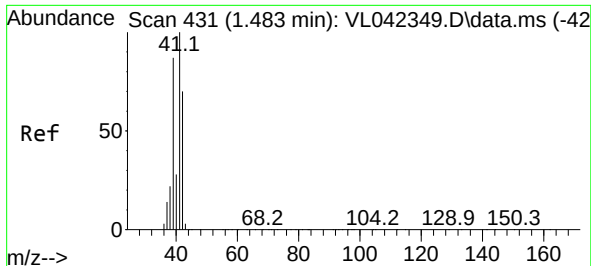


#8
Dichlorotetrafluoroethane
Concen: 0.513 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19



Tgt Ion: 85 Resp: 9381
Ion Ratio Lower Upper
85 100
135 66.2 52.2 78.2





#9

Propene

Concen: 0.574 ppbv

RT: 1.483 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.5

Tgt Ion: 41 Resp: 530

Ion Ratio Lower Upper

41 100

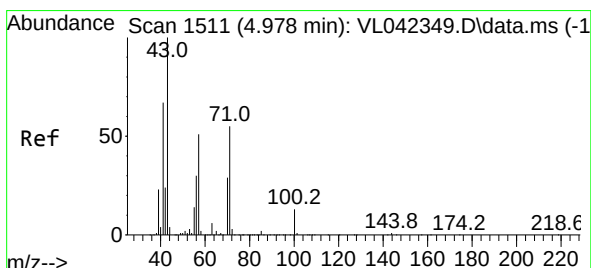
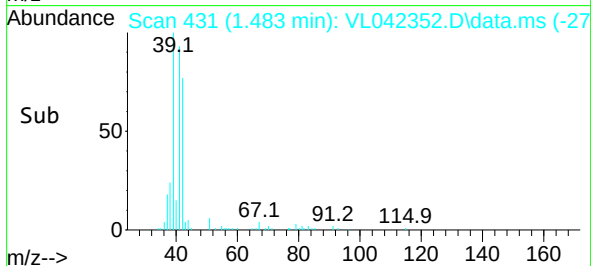
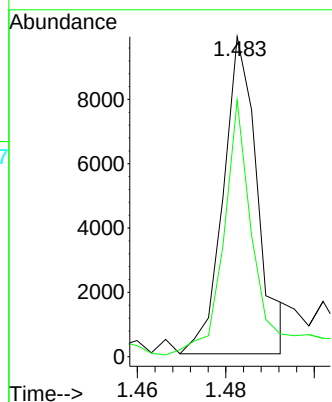
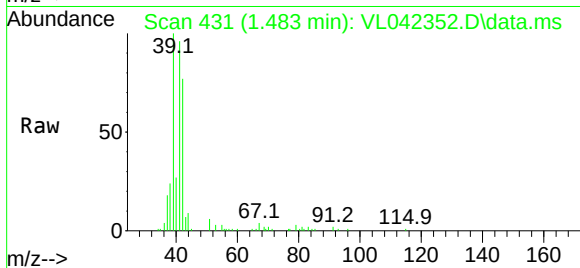
42 64.8 56.2 84.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#10

Heptane

Concen: 0.593 ppbv m

RT: 4.978 min Scan# 1511

Delta R.T. -0.000 min

Lab File: VL042352.D

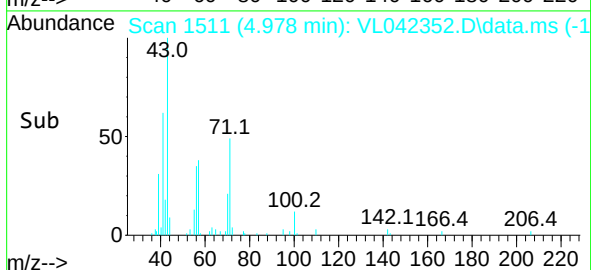
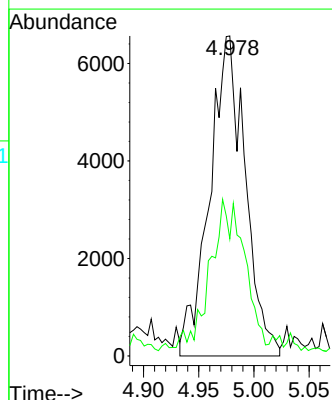
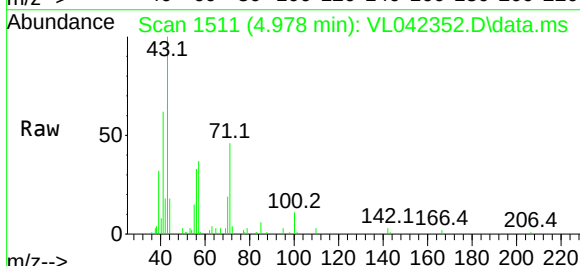
Acq: 17 Apr 2025 11:19

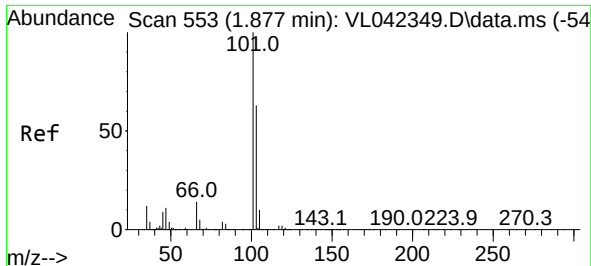
Tgt Ion: 43 Resp: 14728

Ion Ratio Lower Upper

43 100

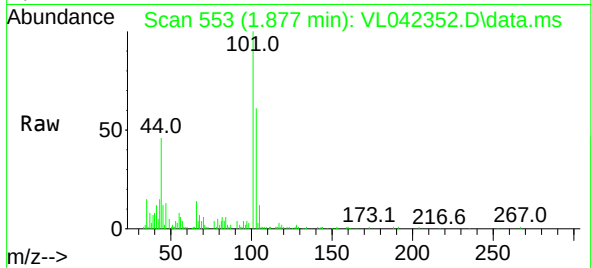
57 51.1 39.9 59.9





#11
Trichlorofluoromethane
Concen: 0.501 ppbv
RT: 1.877 min Scan# 553
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

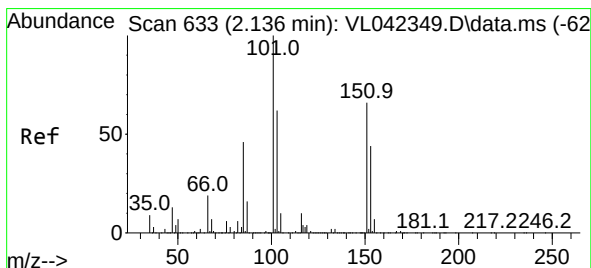
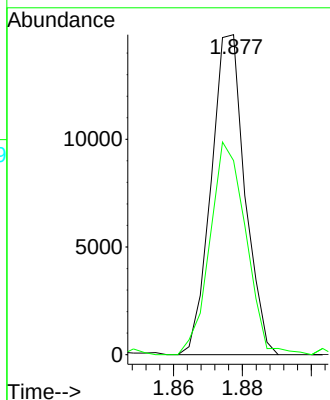
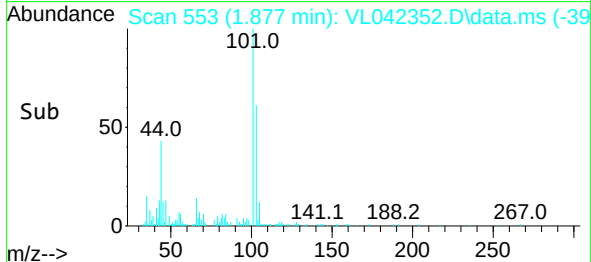
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



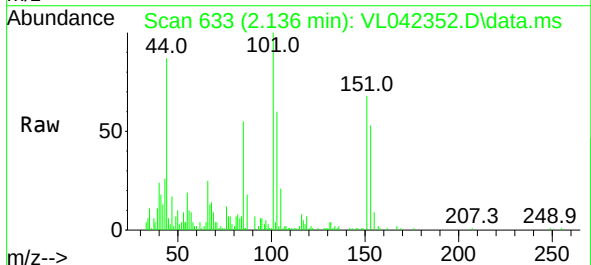
Tgt Ion:101 Resp: 10150
Ion Ratio Lower Upper
101 100
103 60.6 50.1 75.1

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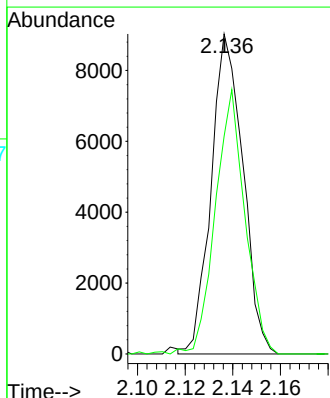
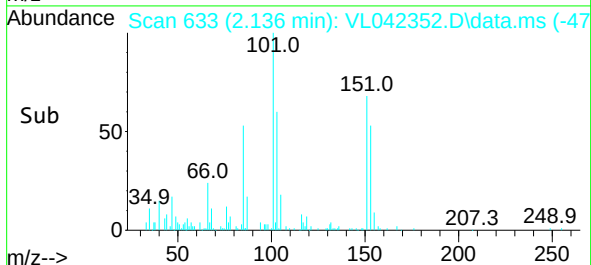
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

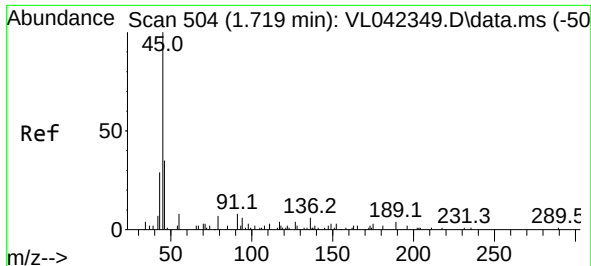


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.506 ppbv
RT: 2.136 min Scan# 633
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19



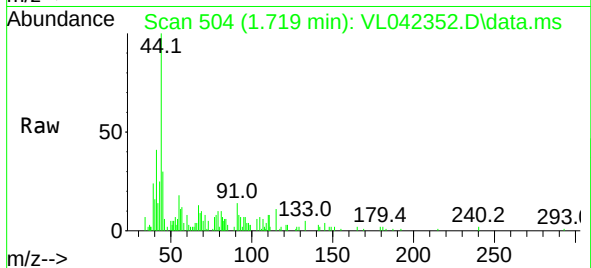
Tgt Ion:101 Resp: 8371
Ion Ratio Lower Upper
101 100
151 77.4 57.0 85.6





#13
Ethanol
Concen: 2.194 ppbv m
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

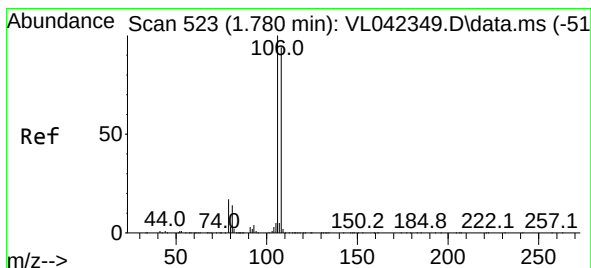
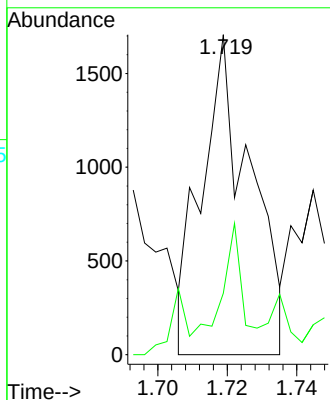
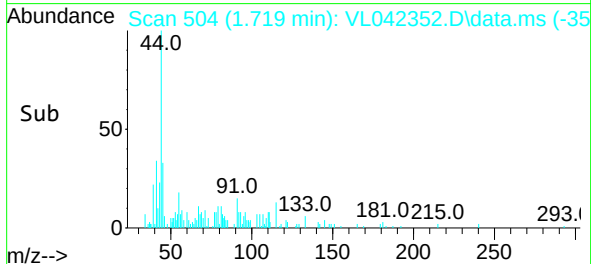
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



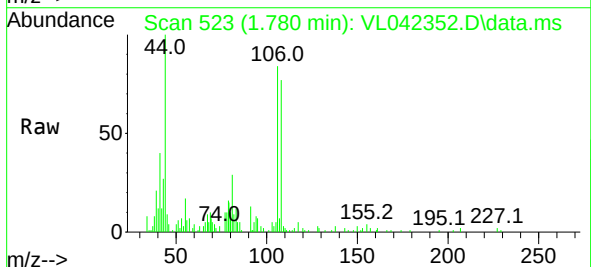
Tgt Ion: 45 Resp: 1650
Ion Ratio Lower Upper
45 100
46 0.0 21.9 87.7

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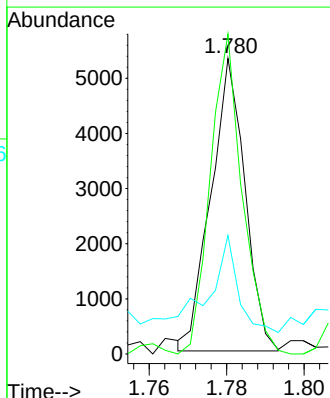
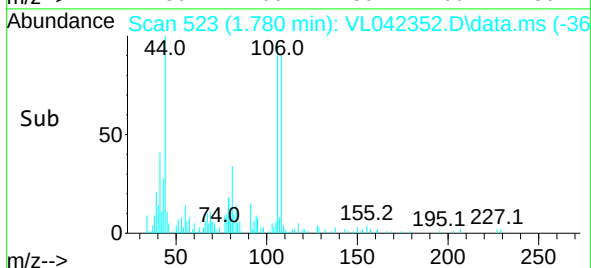
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

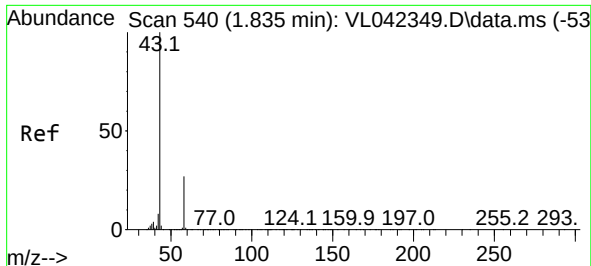


#14
Bromoethene
Concen: 0.519 ppbv
RT: 1.780 min Scan# 523
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19



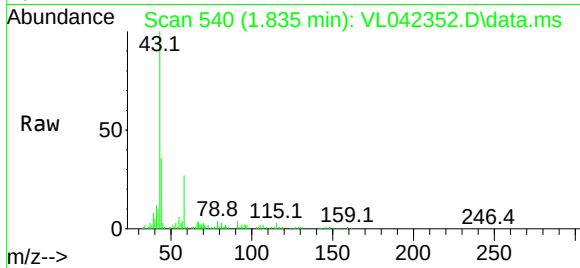
Tgt Ion:108 Resp: 3238
Ion Ratio Lower Upper
108 100
106 110.3 85.9 128.9
79 33.0 13.9 20.9





#15
Acetone
Concen: 0.601 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

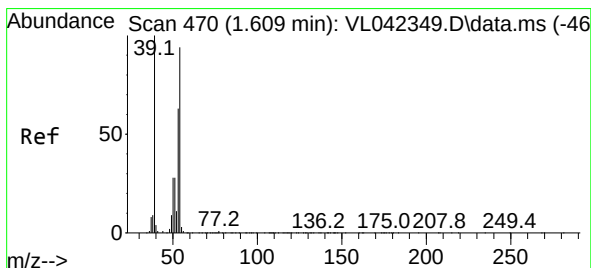
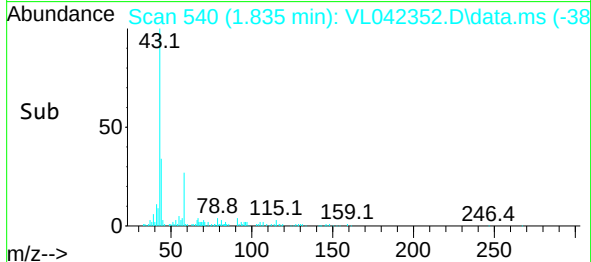
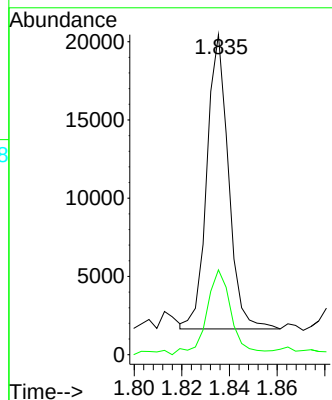
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



Tgt Ion: 43 Resp: 1185
Ion Ratio Lower Upper
43 100
58 41.7 22.4 33.6

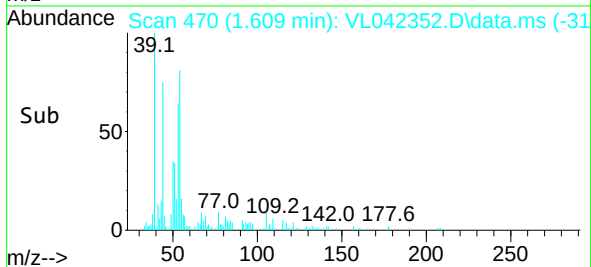
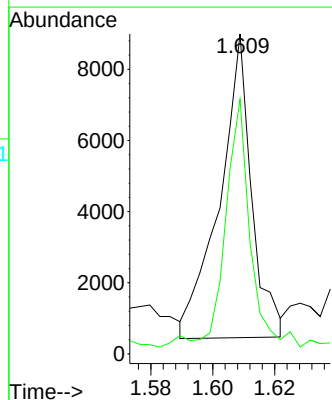
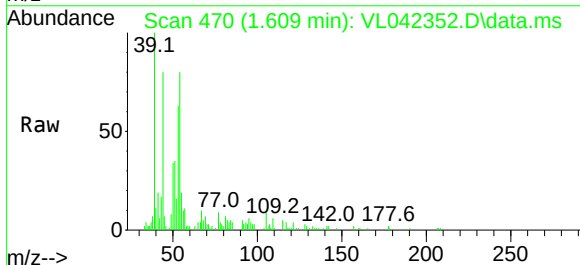
Manual Integrations
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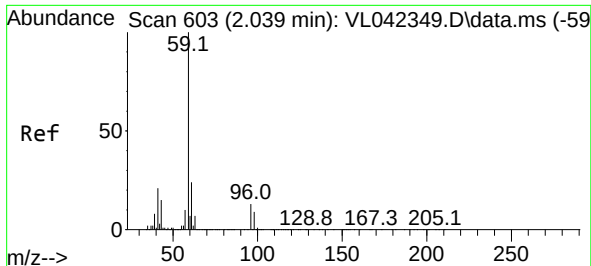
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#16
1,3-Butadiene
Concen: 0.660 ppbv
RT: 1.609 min Scan# 470
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 39 Resp: 6120
Ion Ratio Lower Upper
39 100
54 64.7 64.9 97.3





#17

tert-Butyl alcohol

Concen: 0.558 ppbv

RT: 2.043 min Scan# 603

Delta R.T. 0.003 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.5

Tgt Ion: 59 Resp: 13640

Ion Ratio Lower Upper

59 100

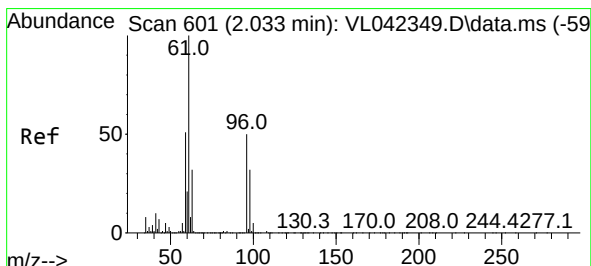
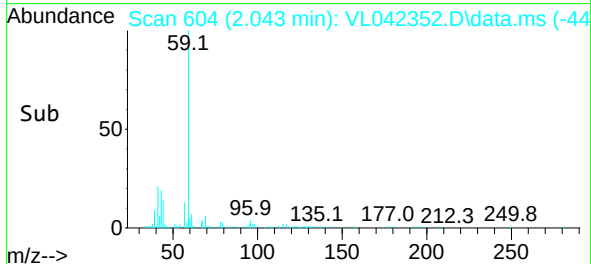
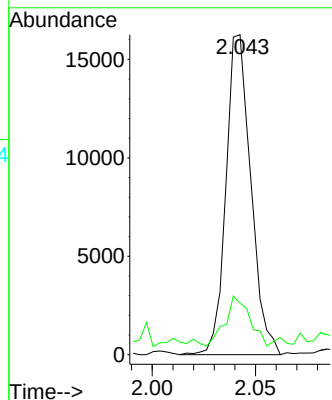
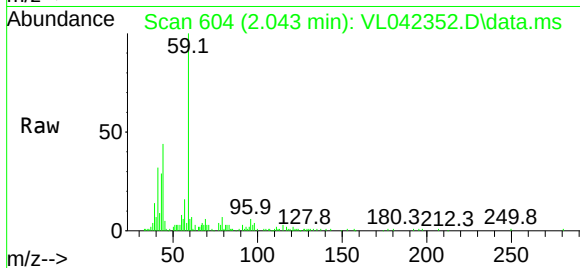
57 16.5 8.7 13.1

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#18

1,1-Dichloroethene

Concen: 0.556 ppbv

RT: 2.033 min Scan# 601

Delta R.T. -0.000 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

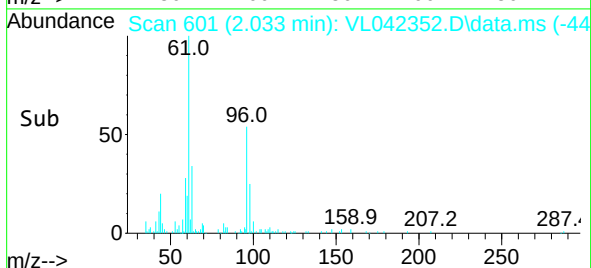
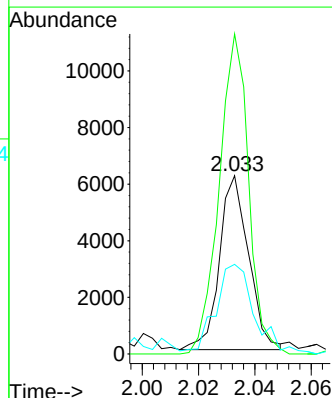
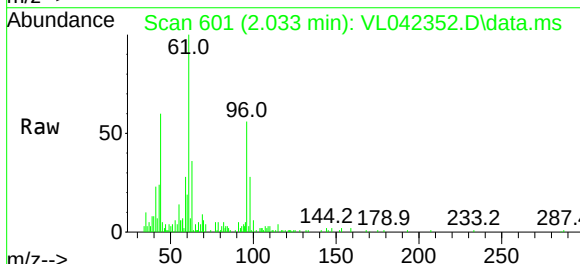
Tgt Ion: 96 Resp: 4430

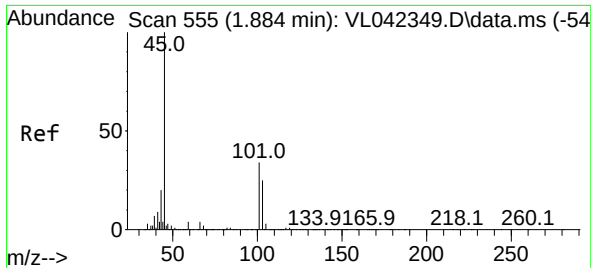
Ion Ratio Lower Upper

96 100

61 183.9 160.2 240.2

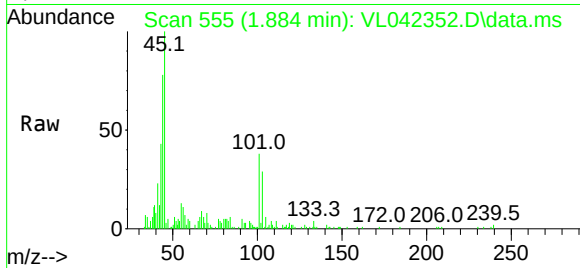
98 49.7 51.0 76.4





#19
Isopropyl Alcohol
Concen: 0.577 ppbv
RT: 1.884 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

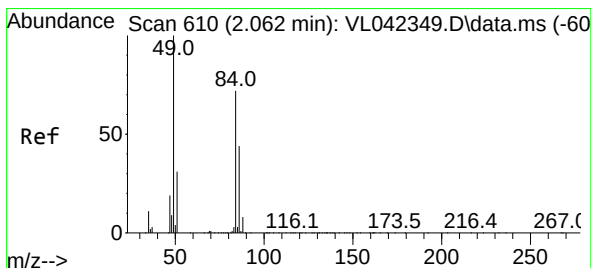
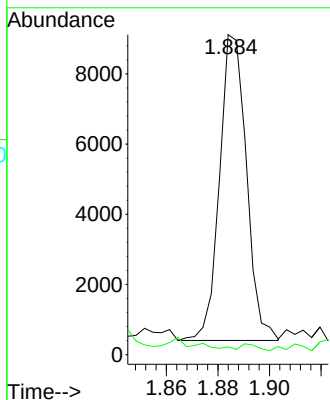
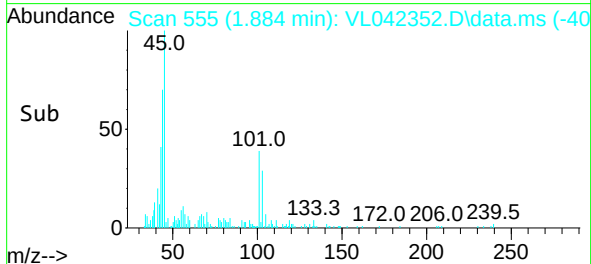
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



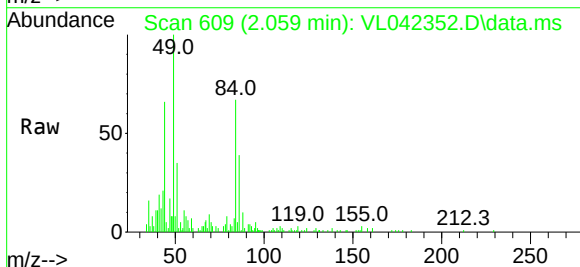
Tgt Ion: 45 Resp: 632
Ion Ratio Lower Upper
45 100
58 3.8 34.5 51.7

Manual Integrations
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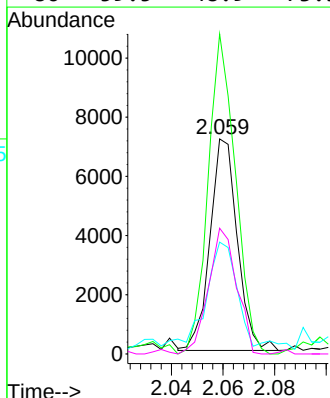
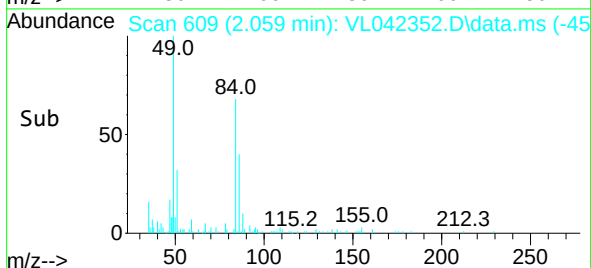
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

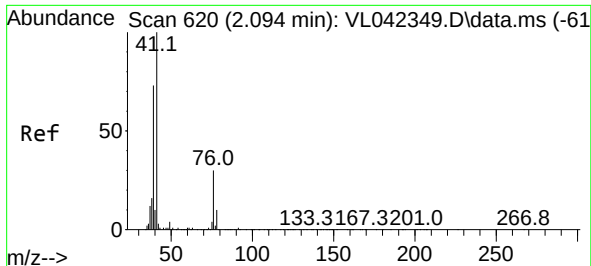


#20
Methylene Chloride
Concen: 0.682 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19



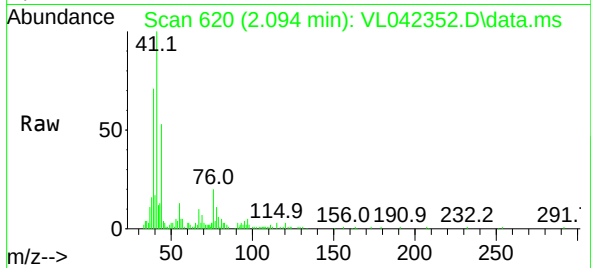
Tgt Ion: 84 Resp: 5273
Ion Ratio Lower Upper
84 100
49 151.3 111.6 167.4
51 48.1 35.1 52.7
86 59.5 48.9 73.3





#21
 Allyl Chloride
 Concen: 0.565 ppbv
 RT: 2.094 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: VL042352.D
 Acq: 17 Apr 2025 11:19

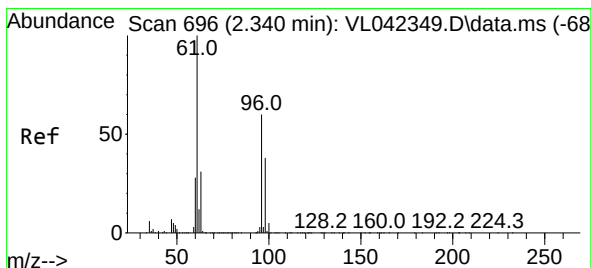
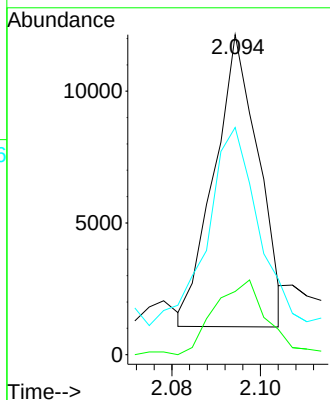
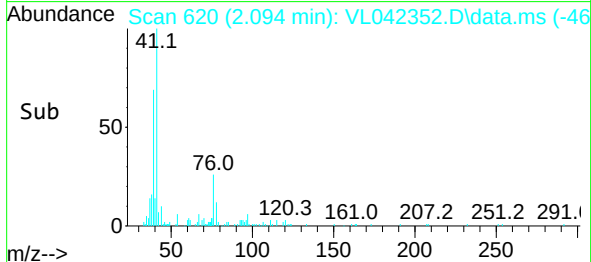
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



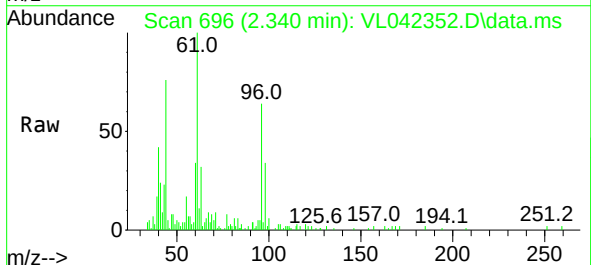
Tgt Ion: 41 Resp: 7692
 Ion Ratio Lower Upper
 41 100
 76 31.1 24.8 37.2
 39 98.8 60.6 90.8

Manual Integrations
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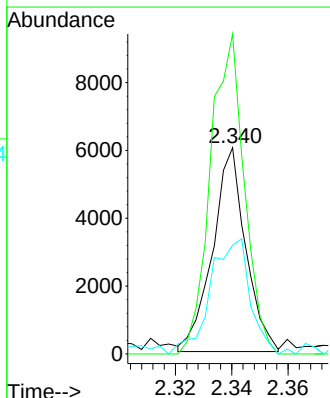
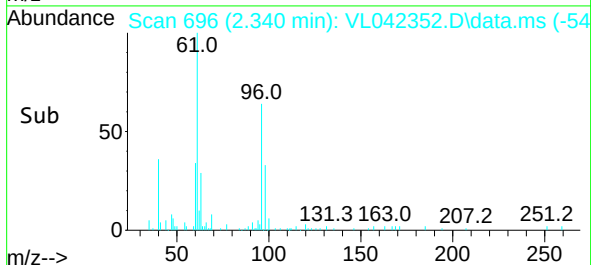
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

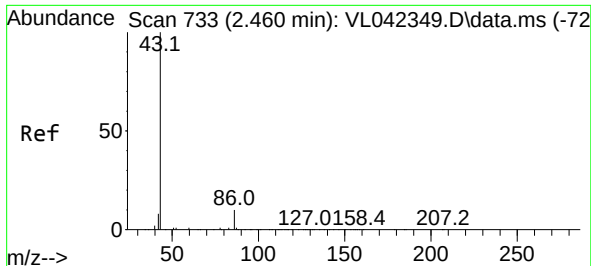


#22
 trans-1,2-Dichloroethene
 Concen: 0.557 ppbv
 RT: 2.340 min Scan# 696
 Delta R.T. -0.000 min
 Lab File: VL042352.D
 Acq: 17 Apr 2025 11:19



Tgt Ion: 96 Resp: 4908
 Ion Ratio Lower Upper
 96 100
 61 158.7 133.7 200.5
 98 54.0 50.3 75.5





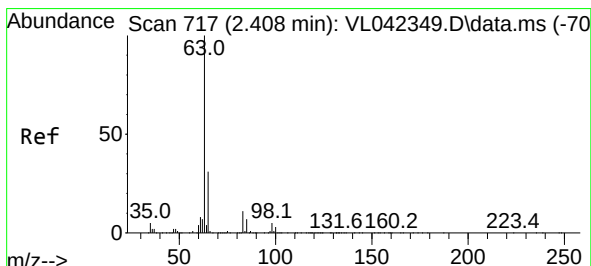
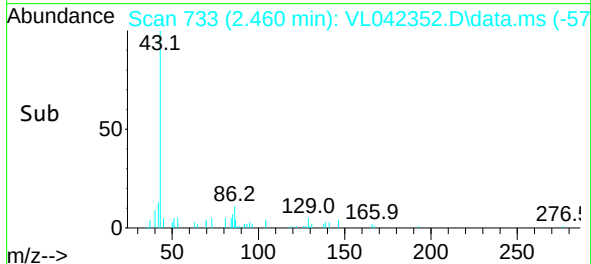
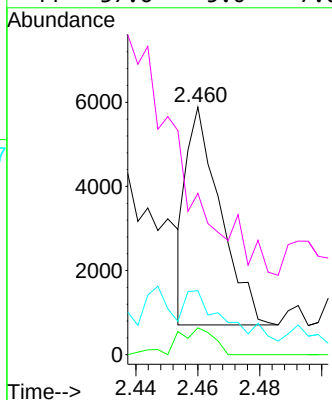
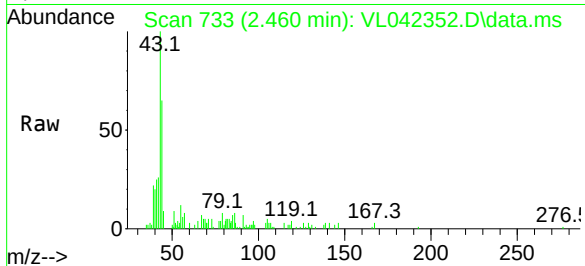
#23
 Vinyl Acetate
 Concen: 0.495 ppbv
 RT: 2.460 min Scan# 717
 Delta R.T. -0.000 min
 Lab File: VL042352.D
 Acq: 17 Apr 2025 11:19

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tgt Ion:	43	Resp:	395
Ion	Ratio	Lower	Upper
43	100		
86	12.4	6.5	9.7
42	23.2	7.8	11.8
44	37.6	5.0	7.6

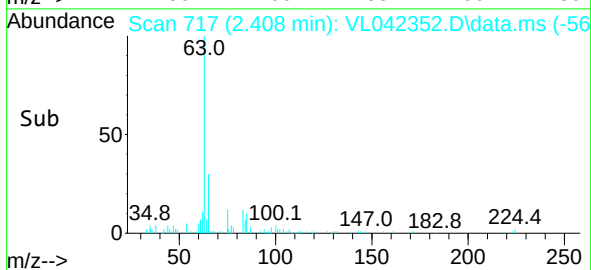
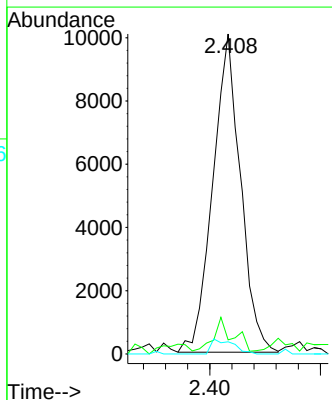
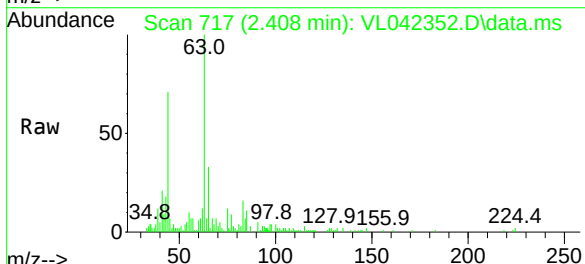
Manual Integrations
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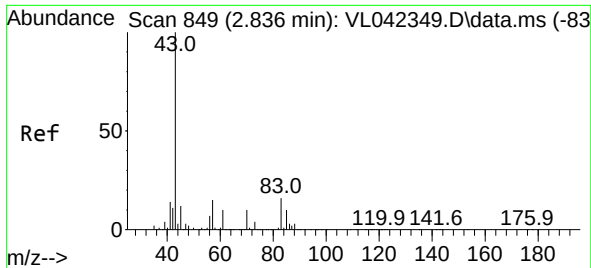
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#24
 1,1-Dichloroethane
 Concen: 0.523 ppbv
 RT: 2.408 min Scan# 717
 Delta R.T. -0.000 min
 Lab File: VL042352.D
 Acq: 17 Apr 2025 11:19

Tgt Ion:	63	Resp:	8753
Ion	Ratio	Lower	Upper
63	100		
98	1.4	2.3	6.8
100	3.8	1.6	4.8





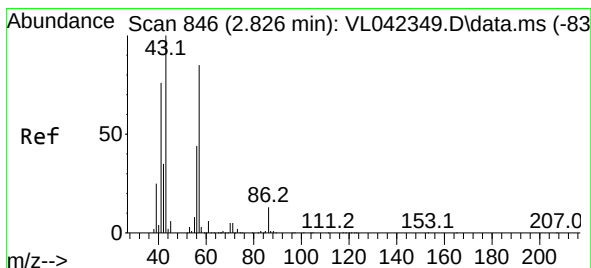
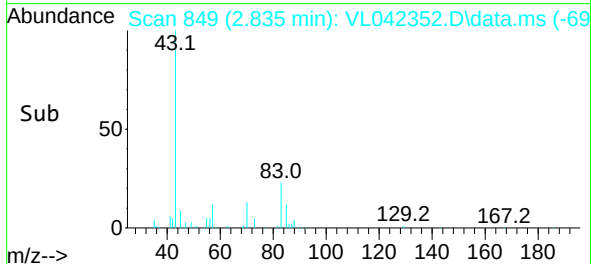
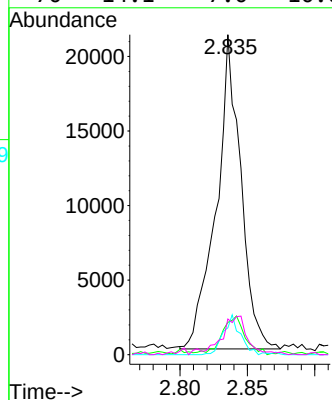
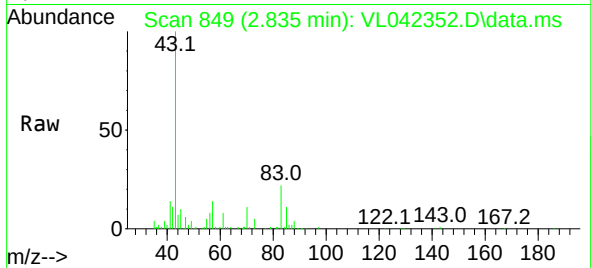
#25
Ethyl Acetate
Concen: 0.548 ppbv
RT: 2.835 min Scan# 849
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 43	Resp: 26680
Ion Ratio	Lower Upper
43 100	
45 13.3	8.3 12.5
61 9.0	7.3 10.9
70 14.1	7.0 10.6

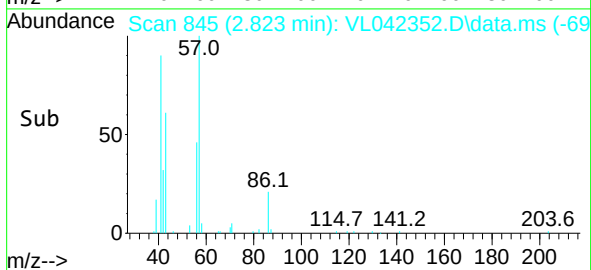
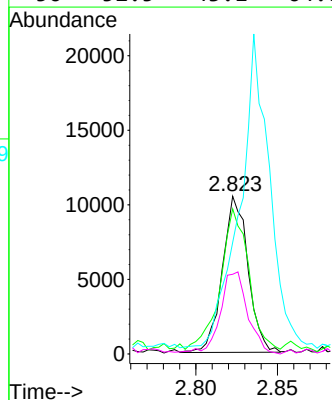
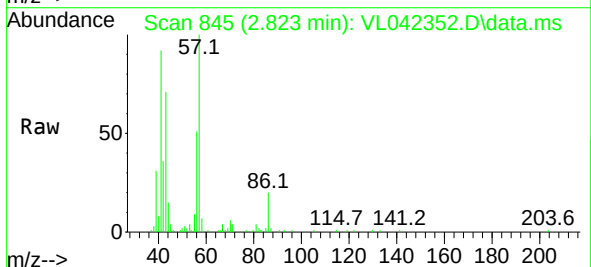
Manual Integrations
APPROVED

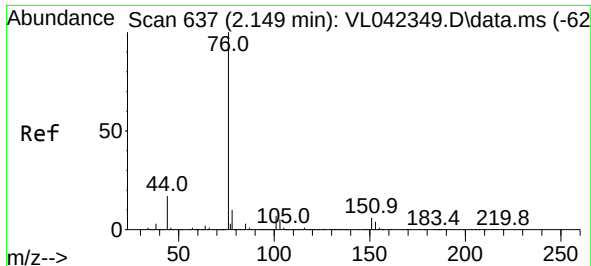
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#26
Hexane
Concen: 0.581 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 57	Resp: 11448
Ion Ratio	Lower Upper
57 100	
41 103.5	77.9 116.9
43 240.0	208.4 312.6
56 52.5	43.1 64.7





#27

Carbon Disulfide

Concen: 0.544 ppbv

RT: 2.149 min Scan# 61

Delta R.T. -0.000 min

Lab File: VL042352.D

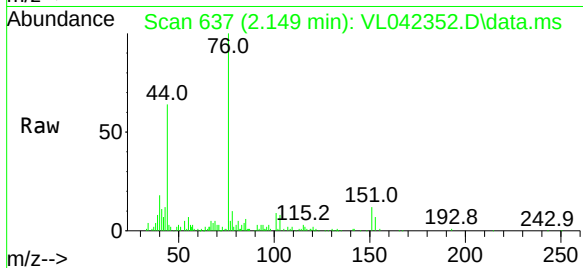
Acq: 17 Apr 2025 11:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.5



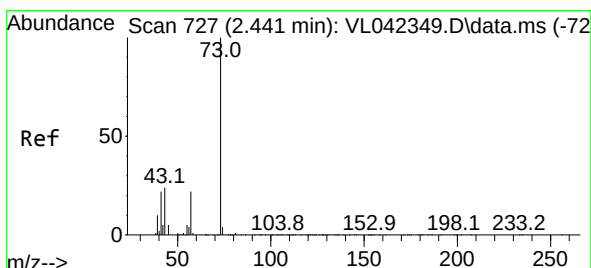
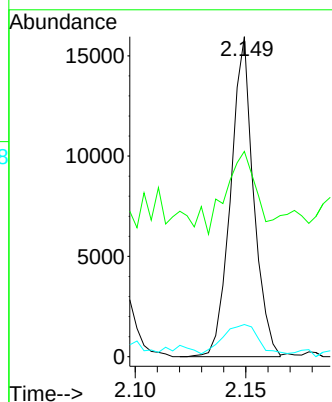
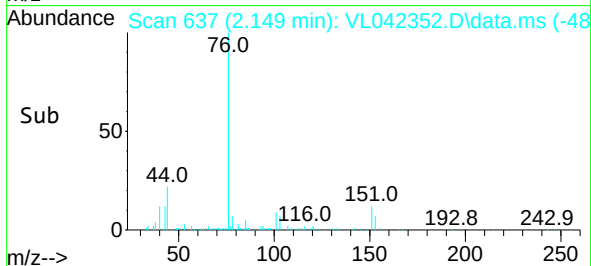
Tgt Ion: 76 Resp: 11472

Ion	Ratio	Lower	Upper
76	100		
44	123.7	15.5	23.3
78	18.8	9.3	13.9

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#28

Methyl tert-Butyl Ether

Concen: 0.530 ppbv

RT: 2.441 min Scan# 727

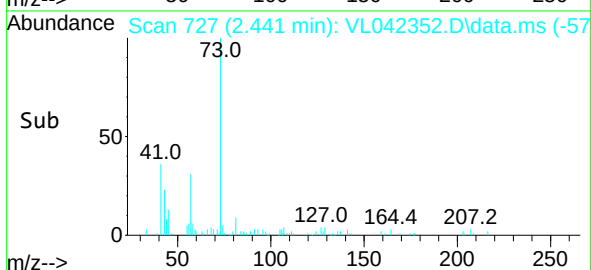
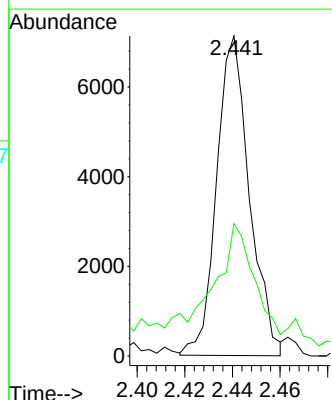
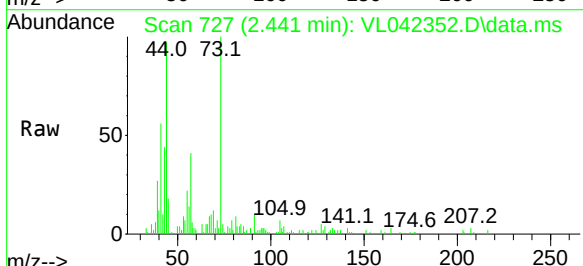
Delta R.T. -0.000 min

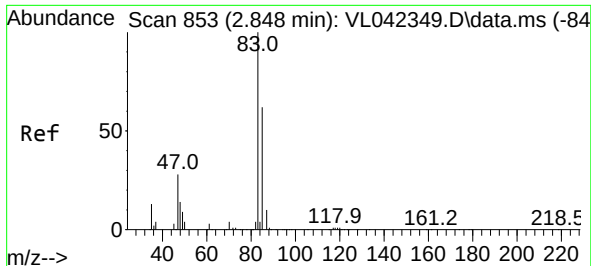
Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Tgt Ion: 73 Resp: 6833

Ion	Ratio	Lower	Upper
73	100		
57	61.8	21.3	31.9





#29

Chloroform

Concen: 0.532 ppbv

RT: 2.848 min Scan# 853

Delta R.T. -0.000 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.5

Tgt Ion: 83 Resp: 1481

Ion Ratio Lower Upper

83 100

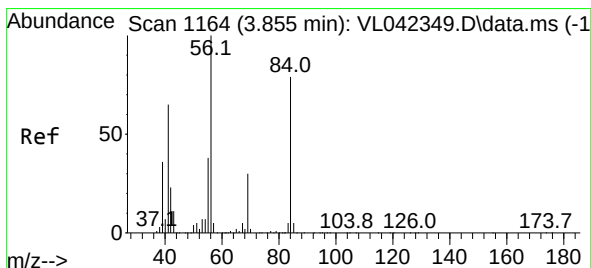
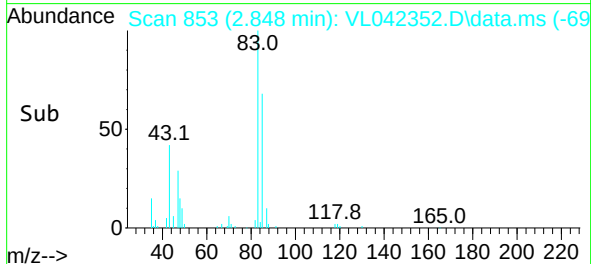
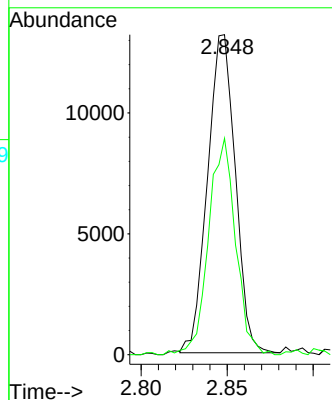
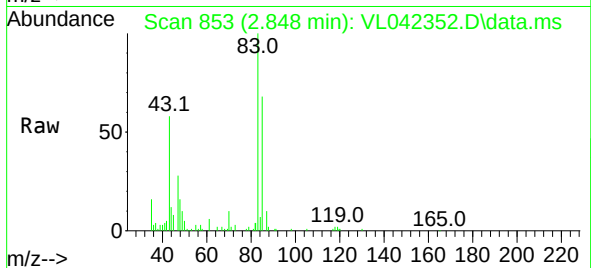
85 68.0 50.0 75.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#30

Cyclohexane

Concen: 0.541 ppbv

RT: 3.852 min Scan# 1163

Delta R.T. -0.003 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

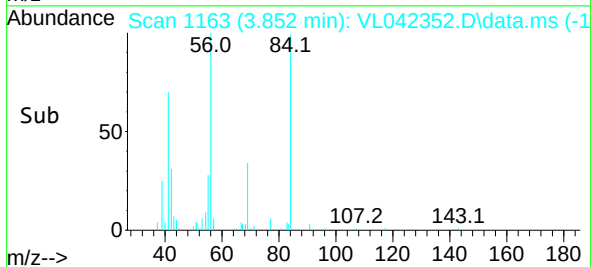
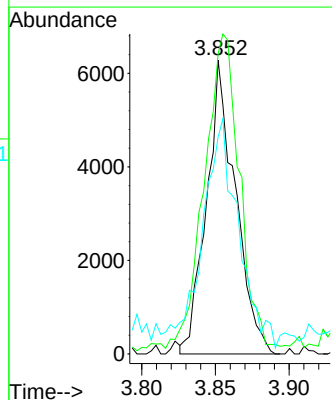
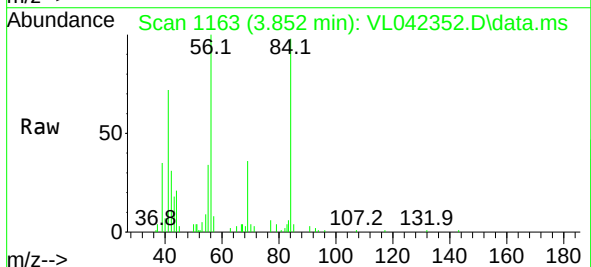
Tgt Ion: 84 Resp: 8572

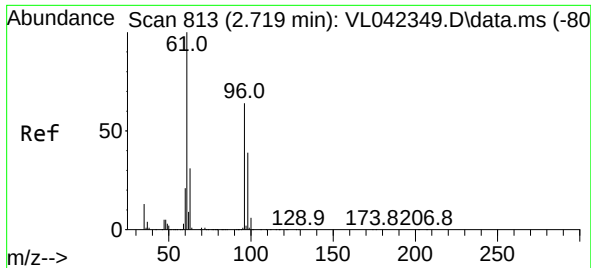
Ion Ratio Lower Upper

84 100

56 132.8 101.0 151.4

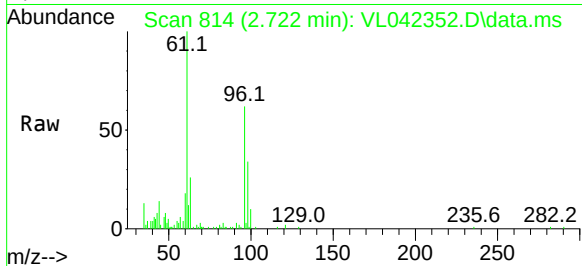
41 89.8 67.4 101.0





#31
cis-1,2-Dichloroethene
Concen: 0.511 ppbv
RT: 2.722 min Scan# 813
Delta R.T. 0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

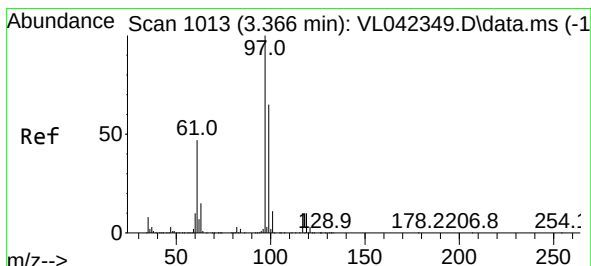
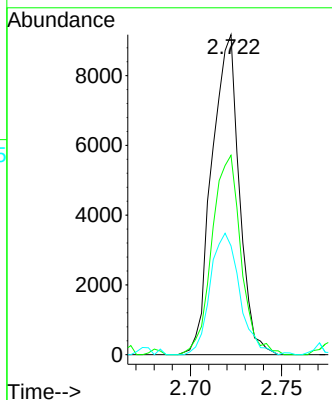
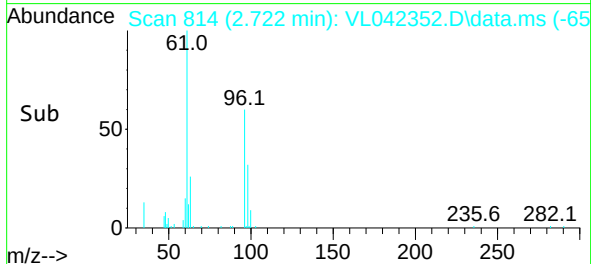
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



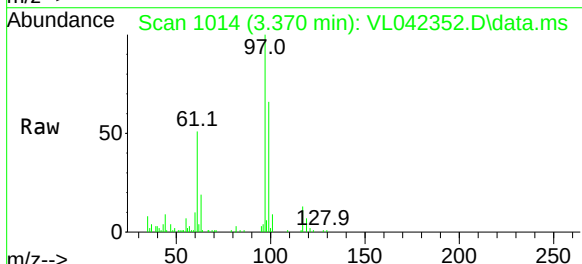
Tgt Ion: 61 Resp: 957
Ion Ratio Lower Upper
61 100
96 62.3 50.8 76.2
98 34.0 30.9 46.3

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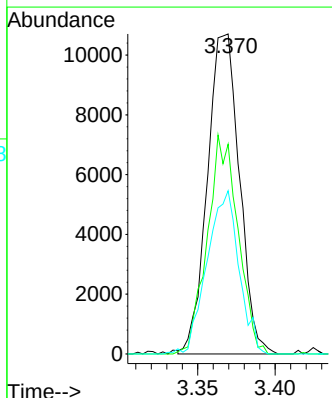
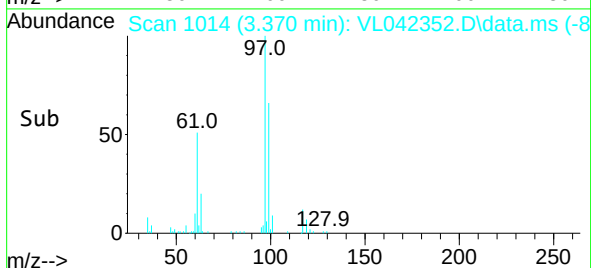
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

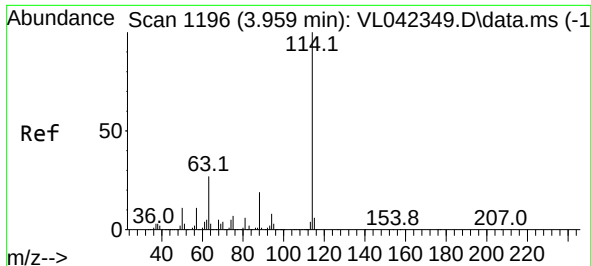


#32
1,1,1-Trichloroethane
Concen: 0.516 ppbv
RT: 3.370 min Scan# 1014
Delta R.T. 0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19



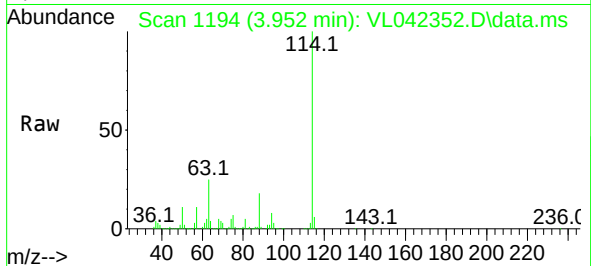
Tgt Ion: 97 Resp: 15413
Ion Ratio Lower Upper
97 100
99 65.6 51.0 76.4
61 50.8 38.8 58.2





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1196
Delta R.T. -0.006 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

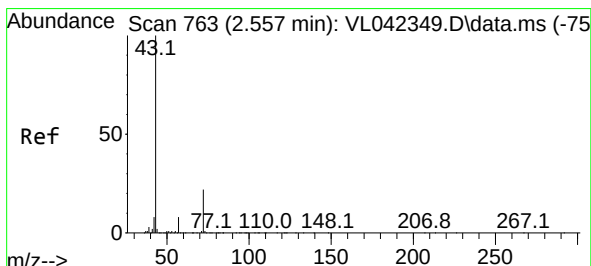
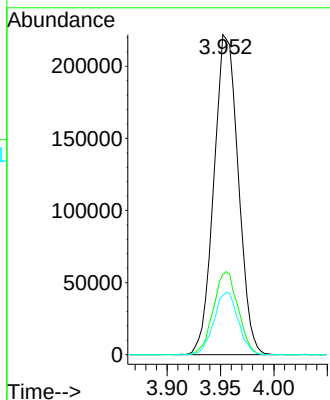
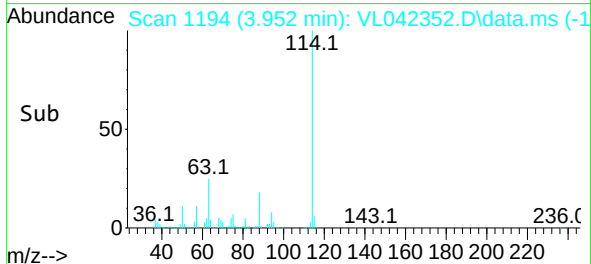
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



Tgt Ion: 114 Resp: 35313
Ion Ratio Lower Upper
114 100
63 26.3 21.8 32.6
88 19.4 15.5 23.3

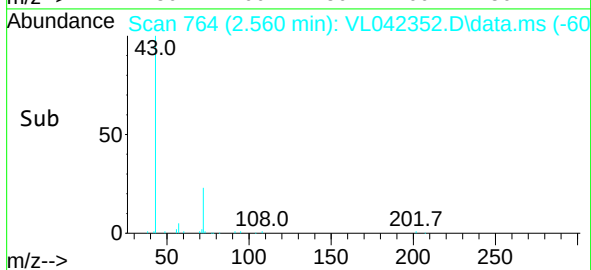
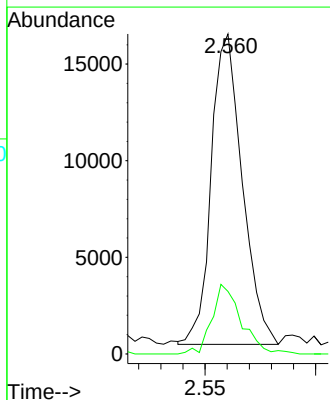
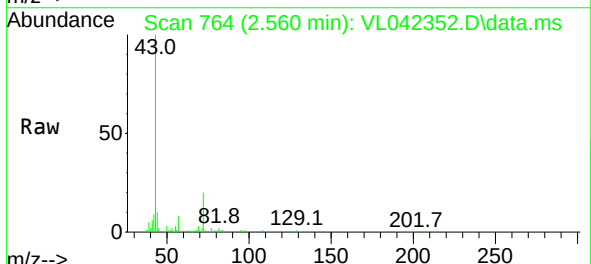
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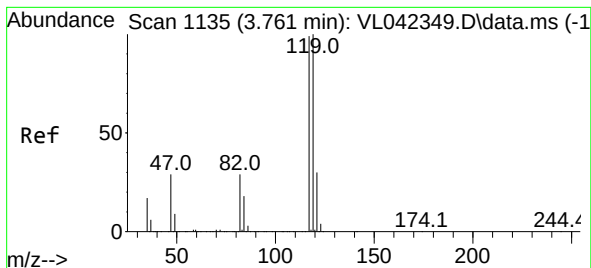
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#34
2-Butanone
Concen: 0.560 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 43 Resp: 15640
Ion Ratio Lower Upper
43 100
72 21.3 18.2 27.2





#35

Carbon Tetrachloride

Concen: 0.459 ppbv

RT: 3.761 min Scan# 1135

Delta R.T. -0.000 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA_L

ClientSampleId :

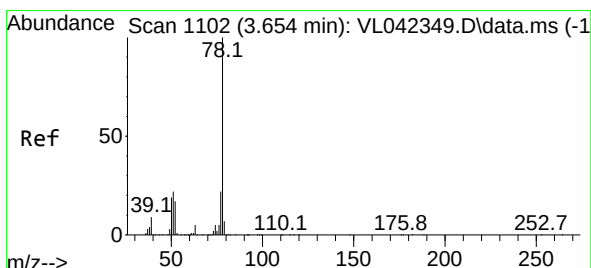
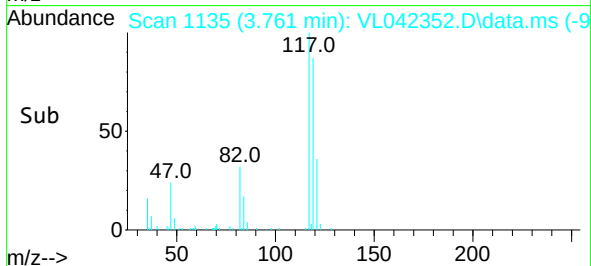
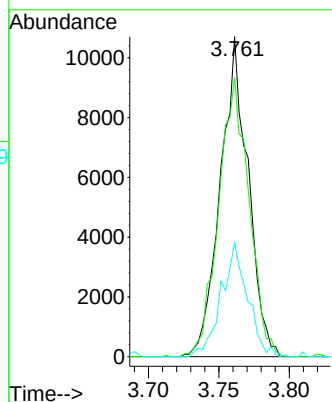
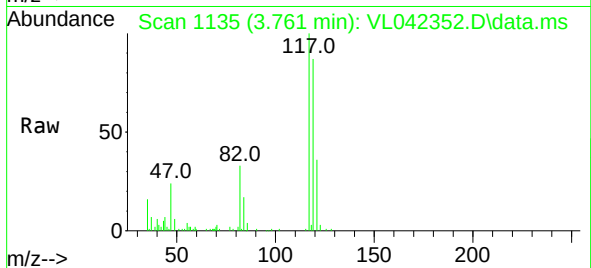
VSTDICC0.5

Tgt Ion:117	Resp:	1468
Ion	Ratio	Lower Upper
117	100	
119	87.2	80.5 120.7
121	35.6	24.2 36.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#36

Benzene

Concen: 0.531 ppbv

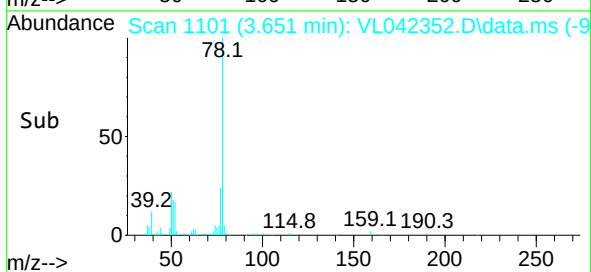
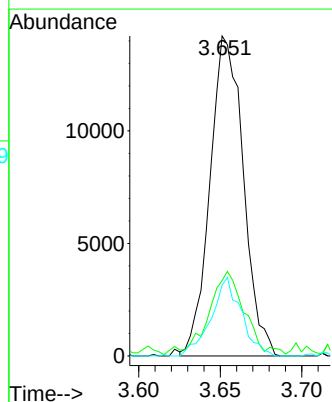
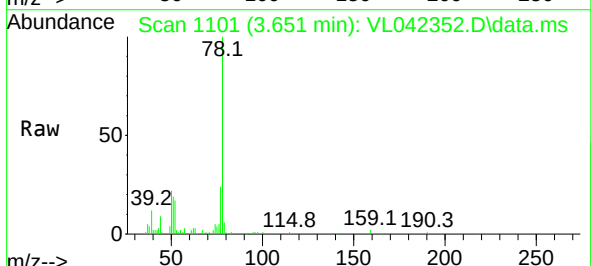
RT: 3.651 min Scan# 1101

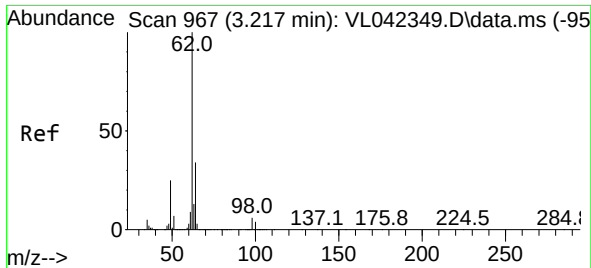
Delta R.T. -0.003 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Tgt Ion: 78	Resp:	20233
Ion	Ratio	Lower Upper
78	100	
77	21.7	17.4 26.0
50	22.1	15.5 23.3





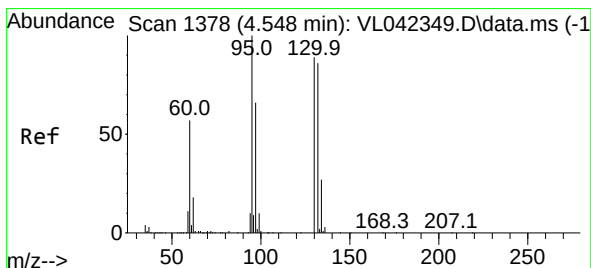
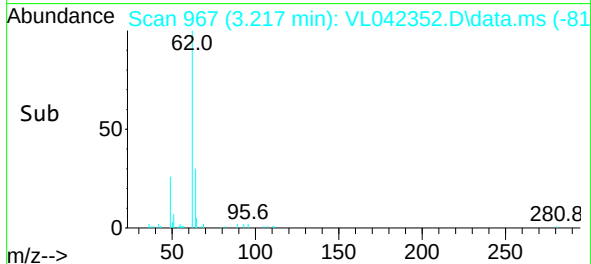
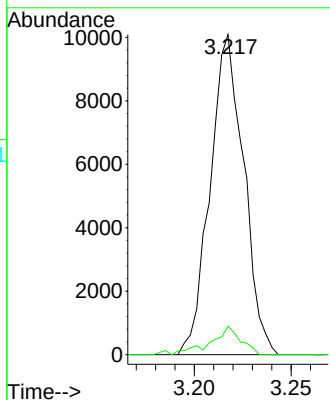
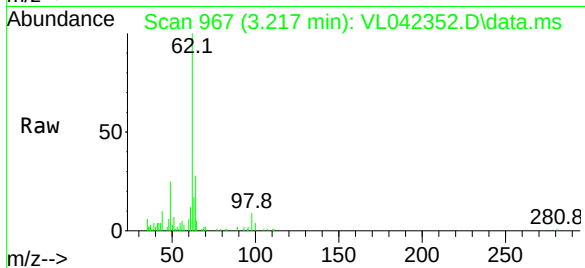
#37
1,2-Dichloroethane
Concen: 0.533 ppbv
RT: 3.217 min Scan# 967
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 62 Resp: 12194
Ion Ratio Lower Upper
62 100
98 8.1 5.1 7.7

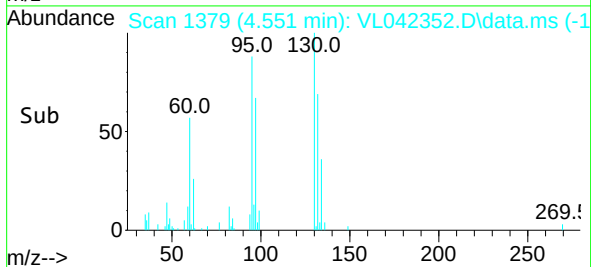
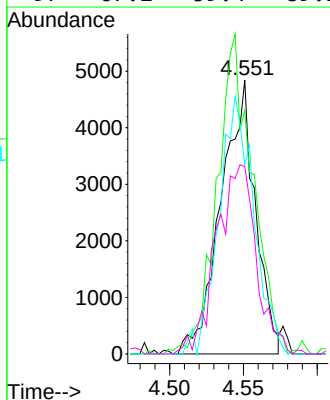
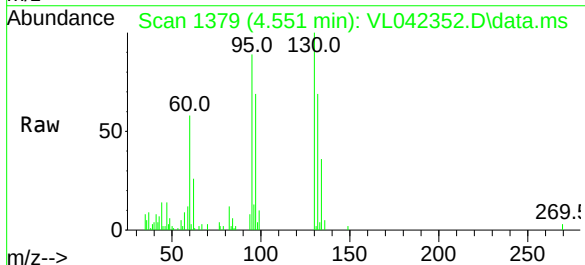
Manual Integrations
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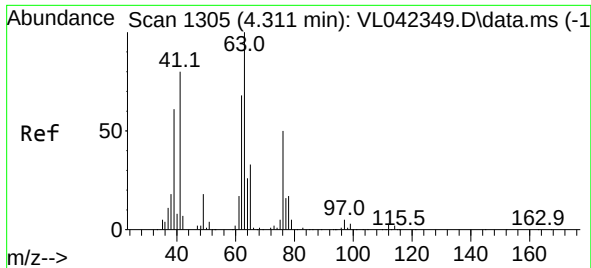
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#38
Trichloroethene
Concen: 0.468 ppbv
RT: 4.551 min Scan# 1379
Delta R.T. 0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:130 Resp: 7819
Ion Ratio Lower Upper
130 100
95 86.2 89.8 134.6#
132 69.1 77.7 116.5#
97 67.2 59.4 89.2





#39

1,2-Dichloropropane

Concen: 0.548 ppbv m

RT: 4.308 min Scan# 1304

Delta R.T. -0.003 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA_L

ClientSampleId :

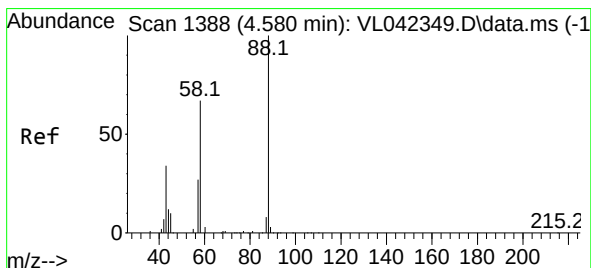
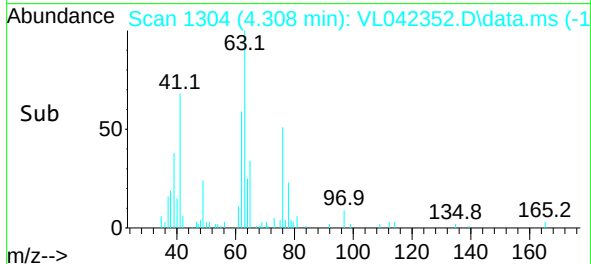
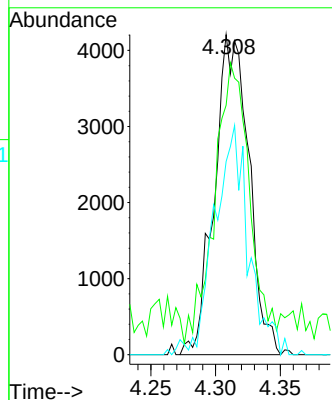
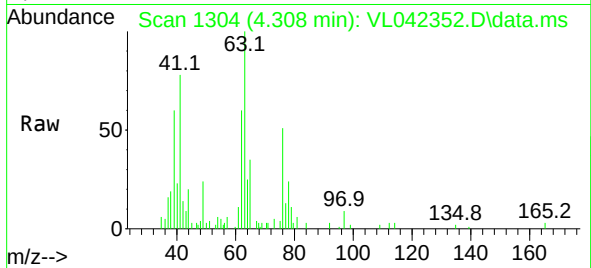
VSTDICC0.5

Tgt Ion: 63	Resp: 7790
Ion Ratio	Lower Upper
63 100	
41 78.0	64.2 96.2
62 60.4	54.3 81.5

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#40

1,4-Dioxane

Concen: 0.603 ppbv m

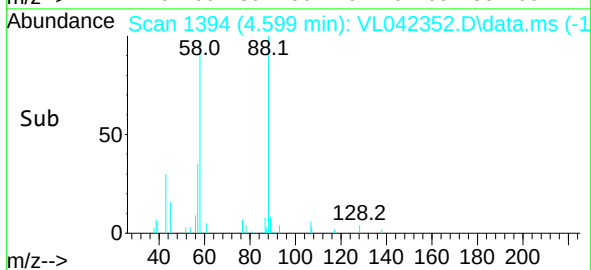
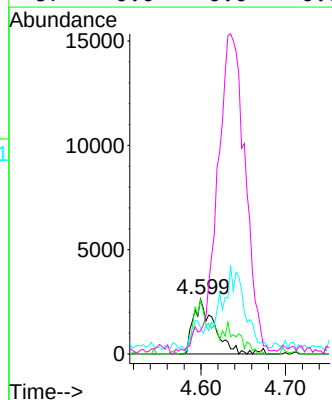
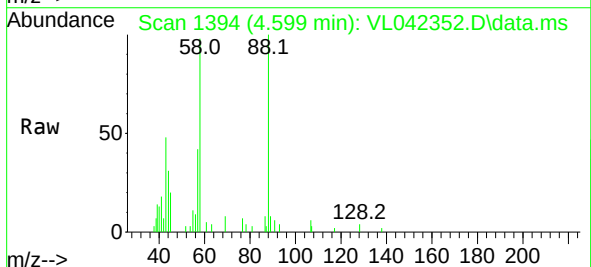
RT: 4.599 min Scan# 1394

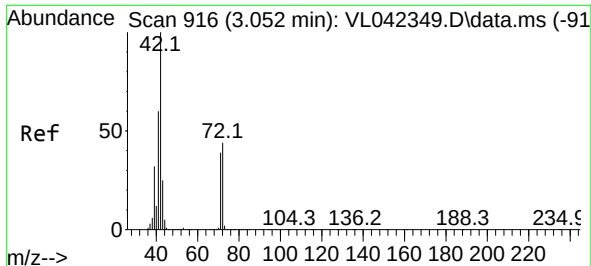
Delta R.T. 0.019 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

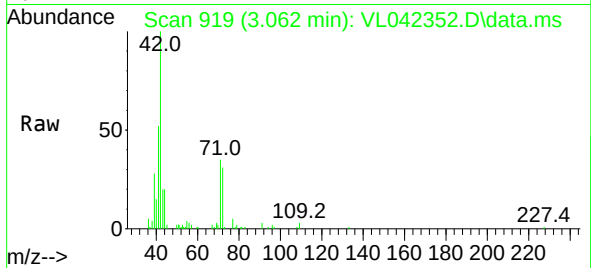
Tgt Ion: 88	Resp: 4637
Ion Ratio	Lower Upper
88 100	
58 118.1	61.4 92.0#
43 0.0	23.2 34.8#
57 0.0	0.0 0.0





#41
Tetrahydrofuran
Concen: 0.567 ppbv m
RT: 3.062 min Scan# 916
Delta R.T. 0.010 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

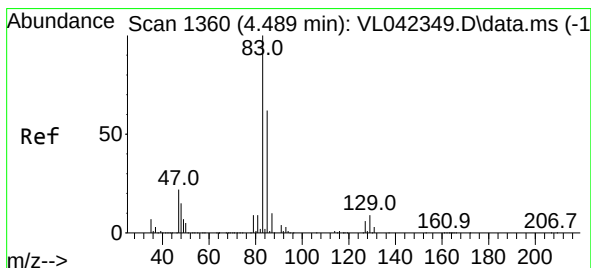
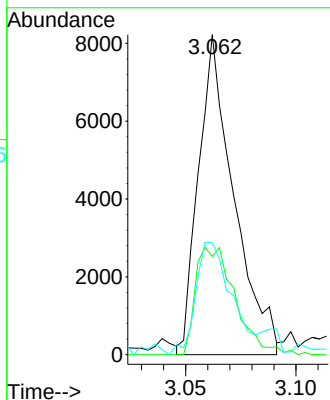
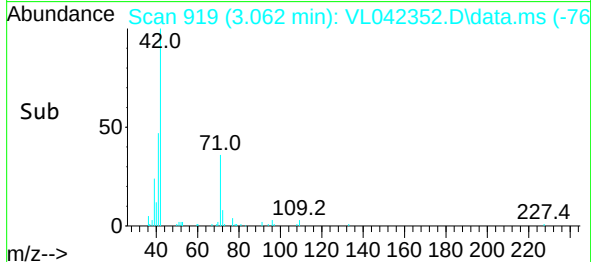
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



Tgt Ion: 42 Resp: 9144
Ion Ratio Lower Upper
42 100
72 37.7 32.3 48.5
71 43.1 31.4 47.2

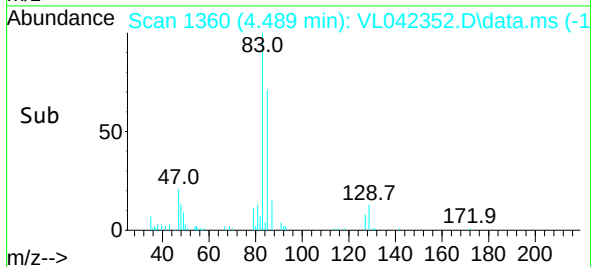
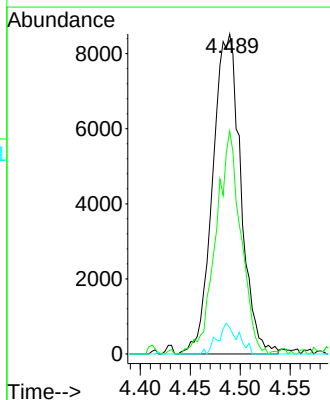
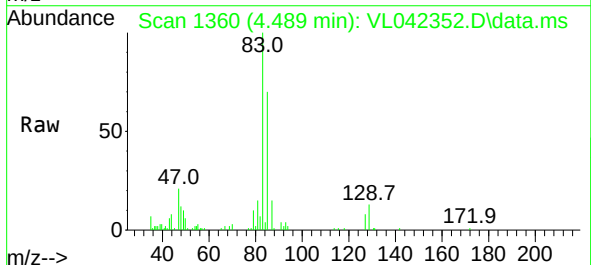
Manual Integrations
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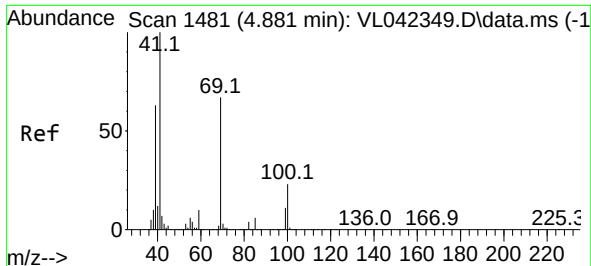
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#42
Bromodichloromethane
Concen: 0.523 ppbv
RT: 4.489 min Scan# 1360
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 83 Resp: 16642
Ion Ratio Lower Upper
83 100
85 69.6 49.7 74.5
127 8.2 5.1 7.7#





#43

Methyl Methacrylate

Concen: 0.563 ppbv m

RT: 4.881 min Scan# 1481

Delta R.T. -0.000 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

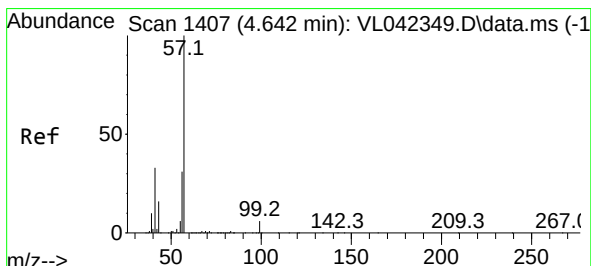
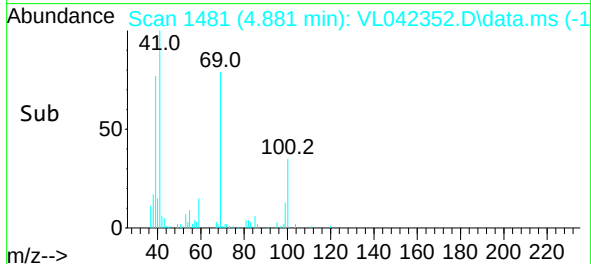
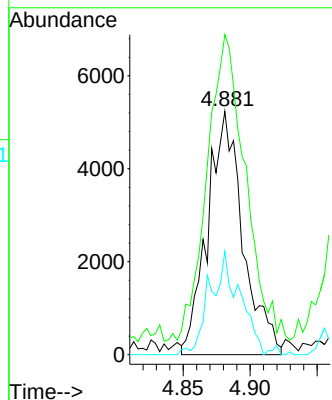
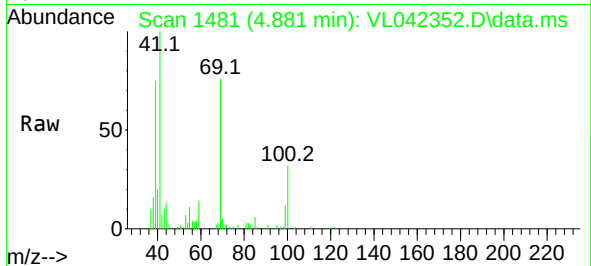
Tgt Ion: 69 Resp: 9620

Ion	Ratio	Lower	Upper
69	100		
41	0.0	118.6	177.8
100	0.0	28.2	42.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#44

2,2,4-Trimethylpentane

Concen: 0.519 ppbv

RT: 4.635 min Scan# 1405

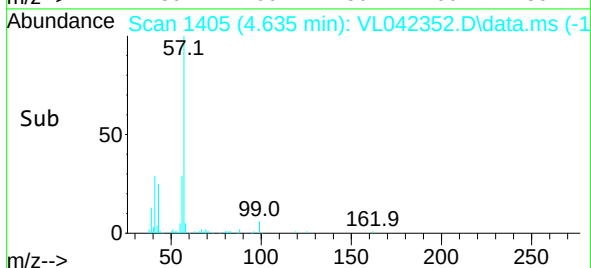
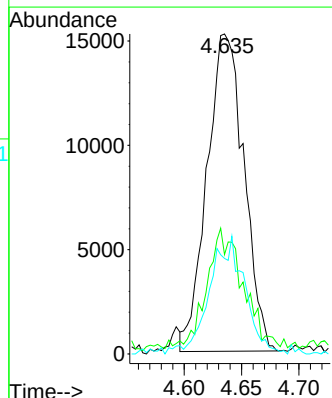
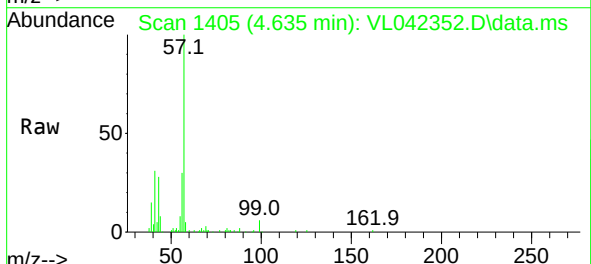
Delta R.T. -0.006 min

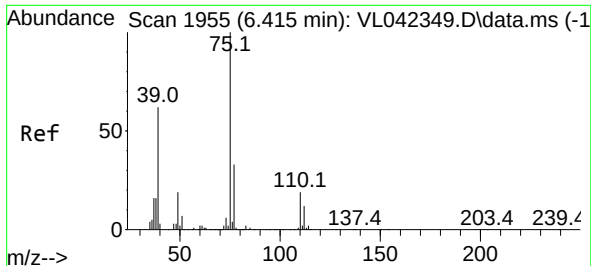
Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Tgt Ion: 57 Resp: 34170

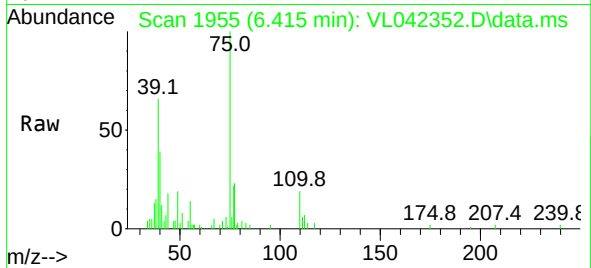
Ion	Ratio	Lower	Upper
57	100		
41	39.1	27.2	40.8
56	37.1	25.7	38.5





#45
t-1,3-Dichloropropene
Concen: 0.517 ppbv m
RT: 6.415 min Scan# 1955
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

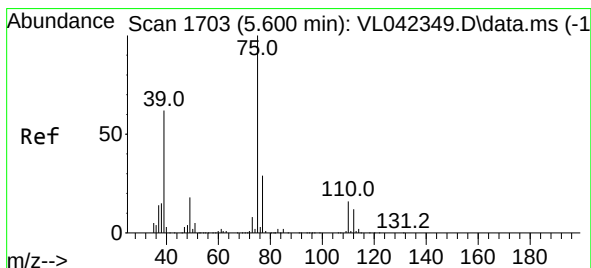
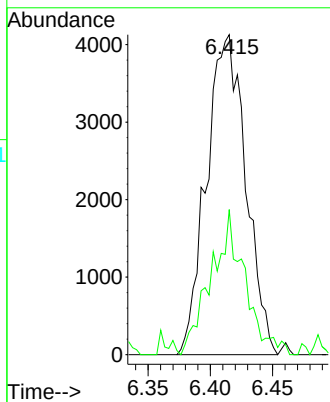
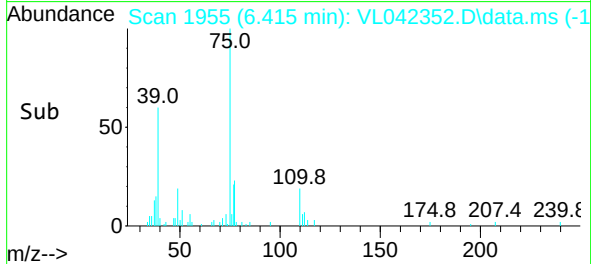
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



Tgt Ion: 75 Resp: 9073
Ion Ratio Lower Upper
75 100
77 23.1 27.0 40.6

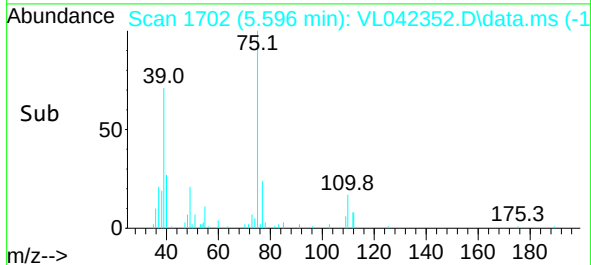
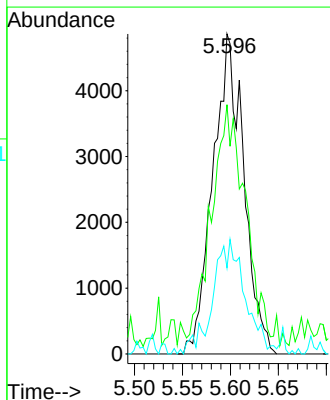
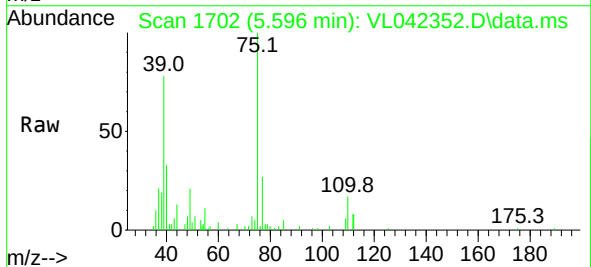
Manual Integrations
APPROVED

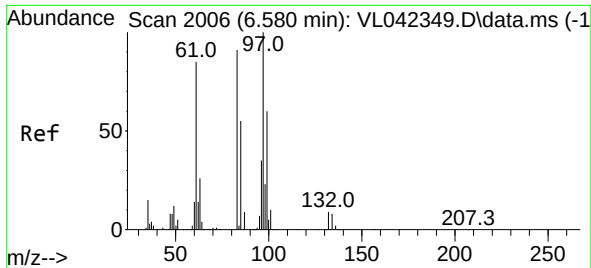
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#46
cis-1,3-Dichloropropene
Concen: 0.505 ppbv m
RT: 5.596 min Scan# 1702
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 75 Resp: 10827
Ion Ratio Lower Upper
75 100
39 77.9 50.0 75.0#
77 26.9 23.0 34.6





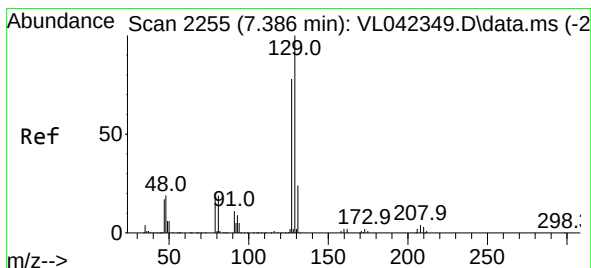
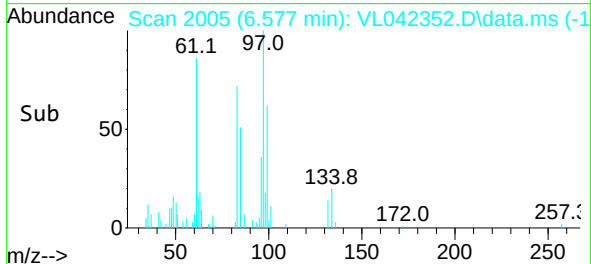
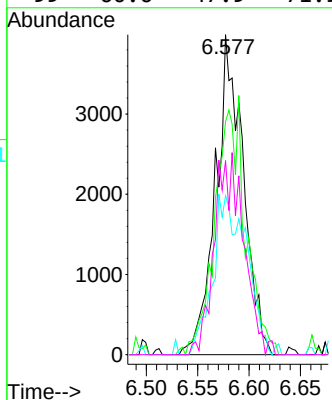
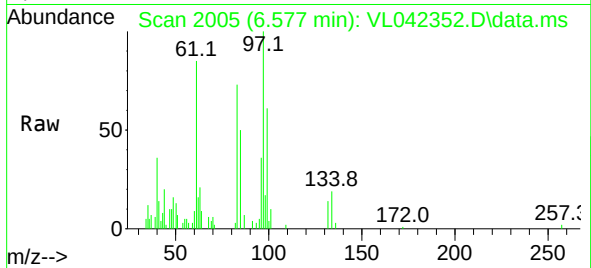
#47
1,1,2-Trichloroethane
Concen: 0.516 ppbv m
RT: 6.577 min Scan# 2006
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 97	Resp: 746
Ion Ratio	Lower Upper
97 100	
83 72.9	72.8 109.2
85 49.6	44.2 66.4
99 60.6	47.9 71.9

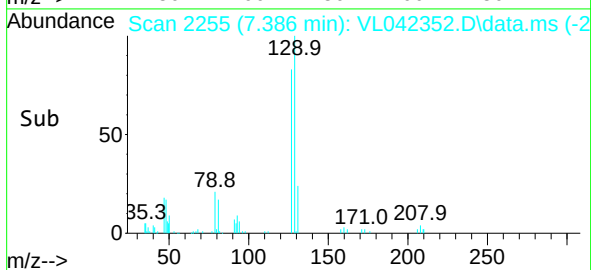
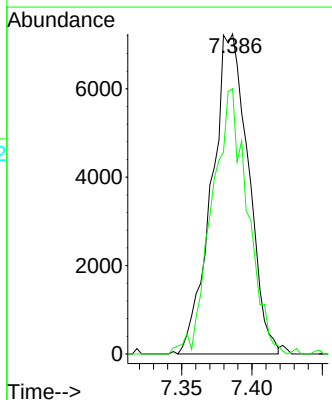
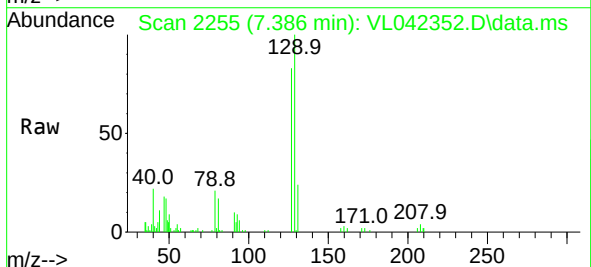
Manual Integrations
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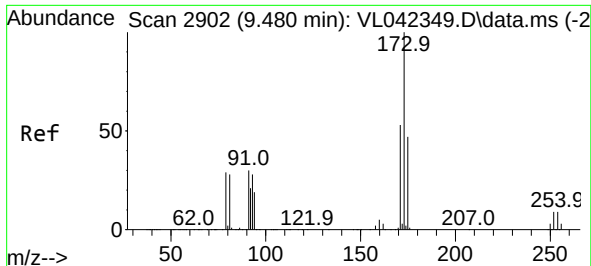
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#48
Dibromochloromethane
Concen: 0.514 ppbv
RT: 7.386 min Scan# 2255
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:129	Resp: 13122
Ion Ratio	Lower Upper
129 100	
127 80.9	39.1 117.3





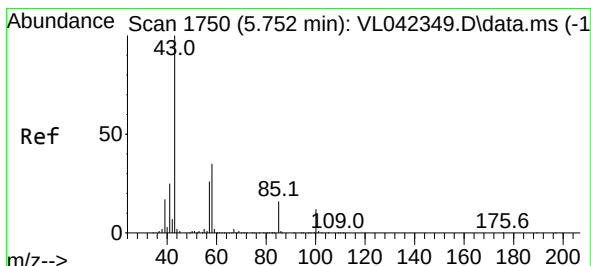
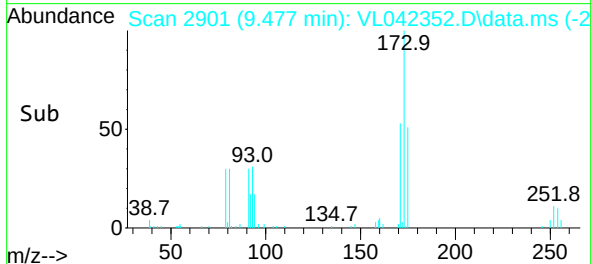
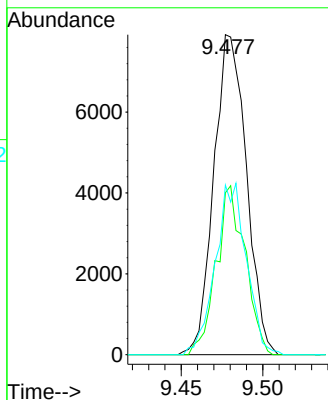
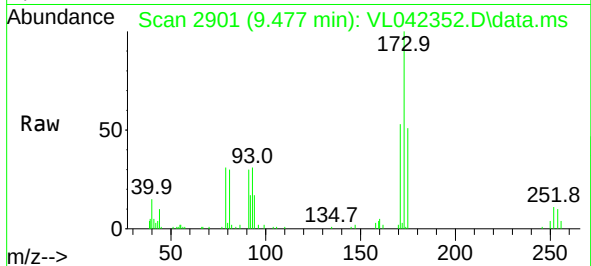
#49
Bromoform
Concen: 0.492 ppbv
RT: 9.477 min Scan# 2902
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion:173 Resp: 1098
Ion Ratio Lower Upper
173 100
175 46.8 38.2 57.2
171 51.2 40.9 61.3

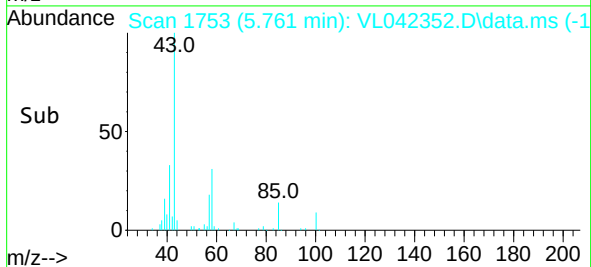
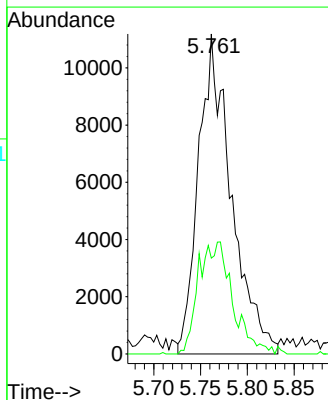
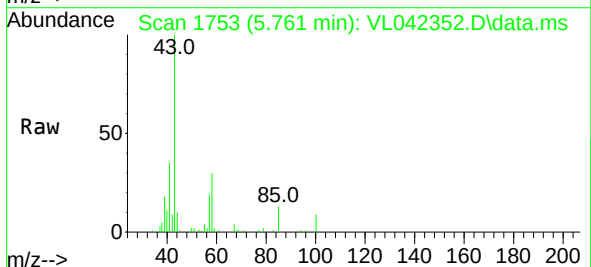
Manual Integrations
APPROVED

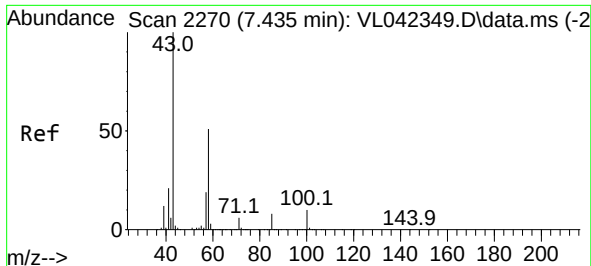
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#50
4-Methyl-2-Pentanone
Concen: 0.585 ppbv m
RT: 5.761 min Scan# 1753
Delta R.T. 0.010 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

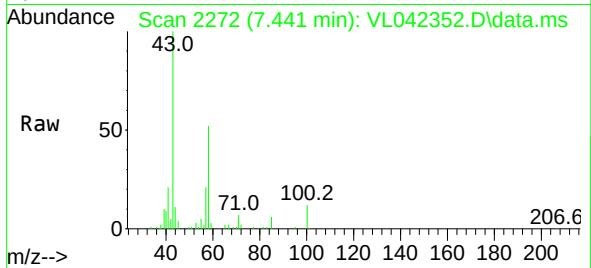
Tgt Ion: 43 Resp: 27206
Ion Ratio Lower Upper
43 100
58 0.0 28.6 43.0#





#51
2-Hexanone
Concen: 0.564 ppbv
RT: 7.441 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

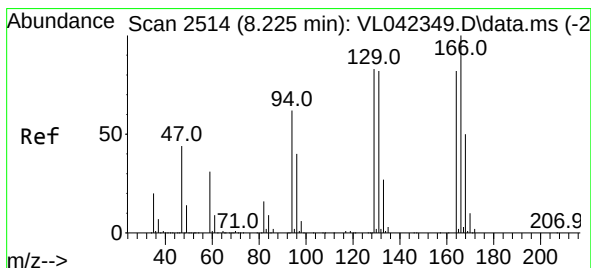
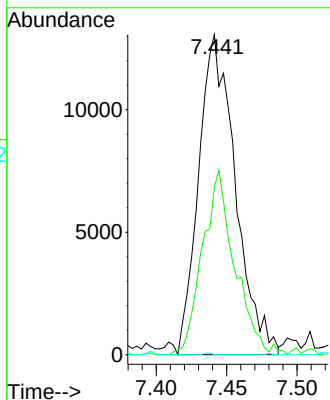
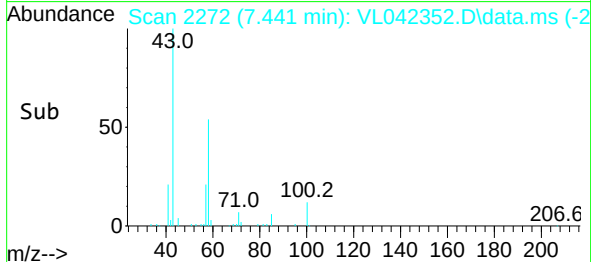
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



Tgt Ion: 43 Resp: 23684
Ion Ratio Lower Upper
43 100
58 51.7 40.2 60.4
98 0.1 0.1 0.1

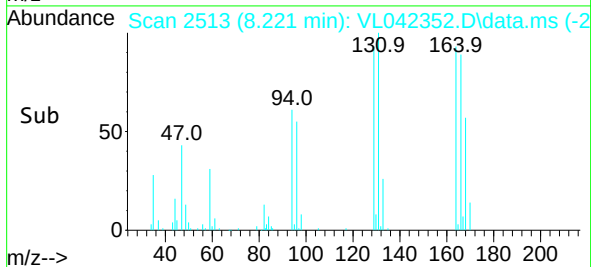
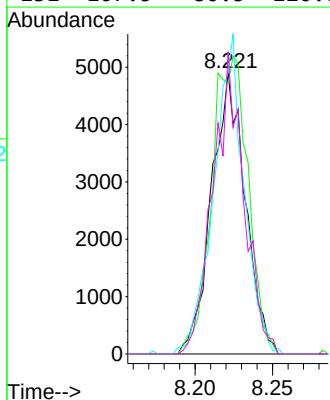
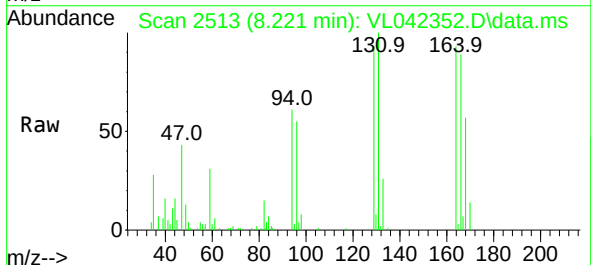
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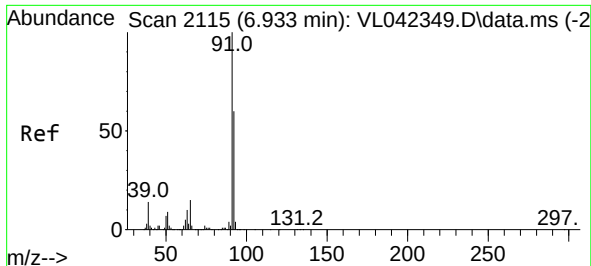
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#52
Tetrachloroethene
Concen: 0.503 ppbv
RT: 8.221 min Scan# 2513
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:164 Resp: 7412
Ion Ratio Lower Upper
164 100
166 96.1 98.2 147.2#
129 97.8 81.8 122.8
131 107.5 80.5 120.7





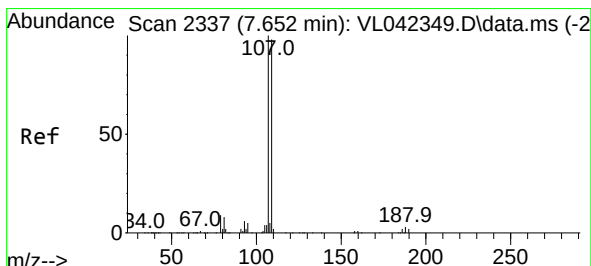
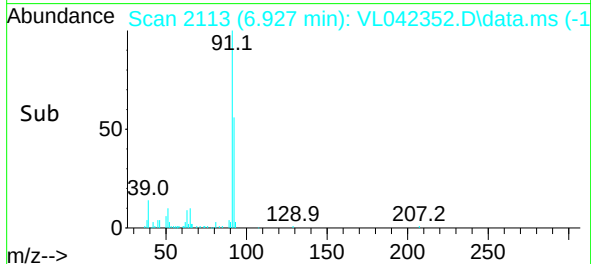
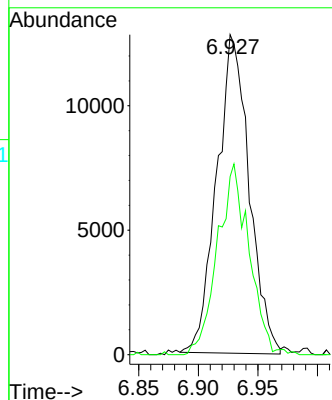
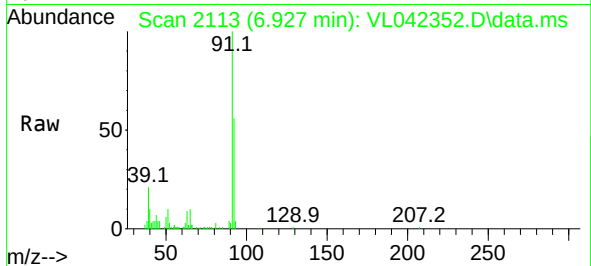
#53
Toluene
Concen: 0.529 ppbv
RT: 6.927 min Scan# 2113
Delta R.T. -0.006 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 91 Resp: 24200
Ion Ratio Lower Upper
91 100
92 58.4 48.2 72.4

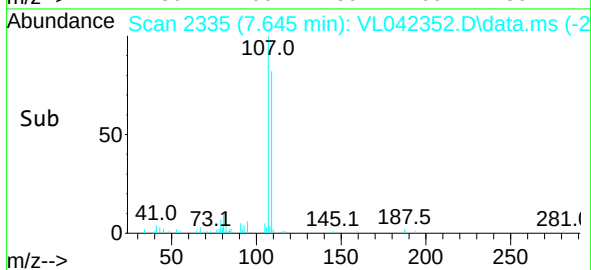
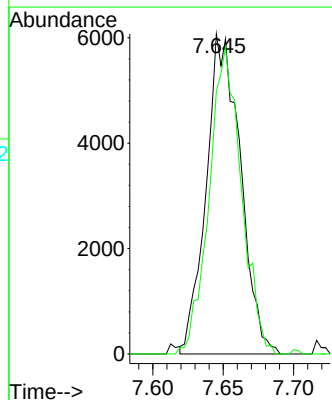
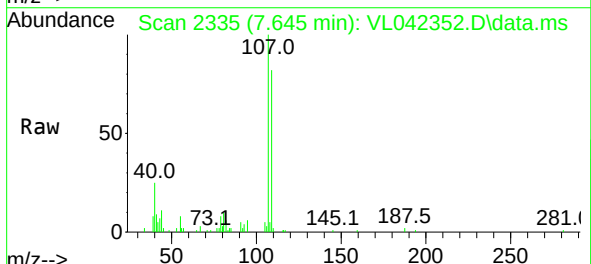
Manual Integrations
APPROVED

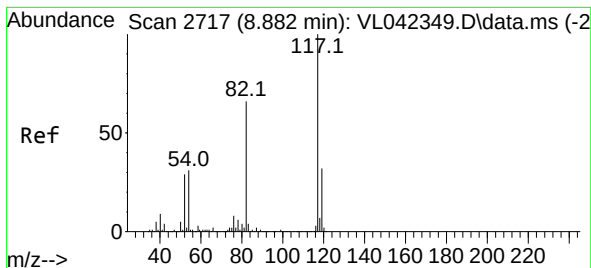
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#54
1,2-Dibromoethane
Concen: 0.499 ppbv
RT: 7.645 min Scan# 2335
Delta R.T. -0.006 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:107 Resp: 10282
Ion Ratio Lower Upper
107 100
109 82.1 78.2 117.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.878 min Scan# 21

Delta R.T. -0.003 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA_L

ClientSampleId :

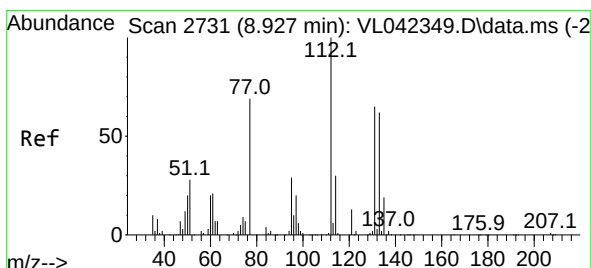
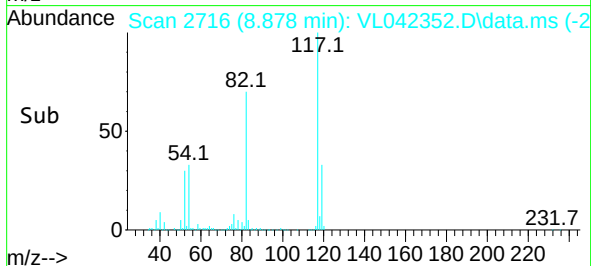
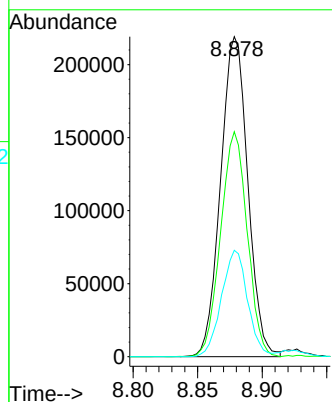
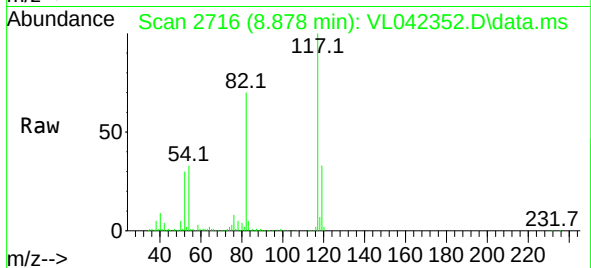
VSTDIC0.5

Tgt Ion:	117	Resp:	321644
Ion Ratio	Lower	Upper	
117	100		
82	69.0	57.8	86.6
119	33.8	25.2	37.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#56

1,1,1,2-Tetrachloroethane

Concen: 0.513 ppbv

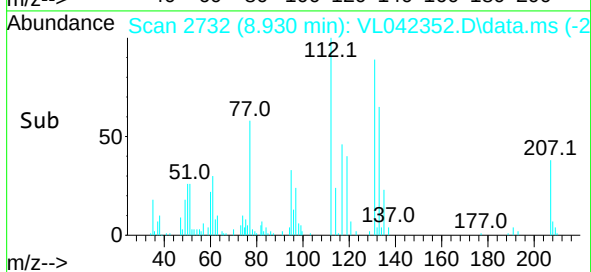
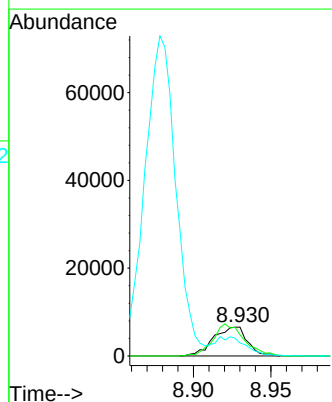
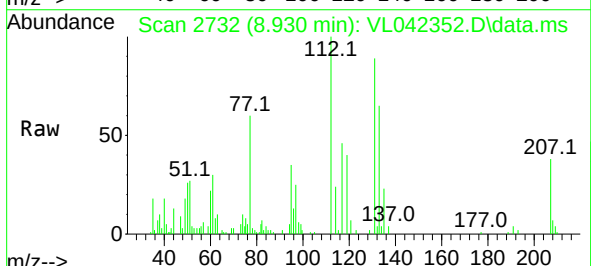
RT: 8.930 min Scan# 2732

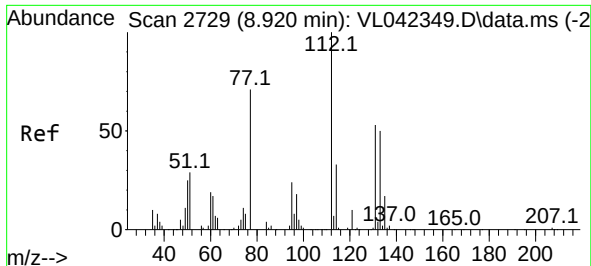
Delta R.T. 0.003 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

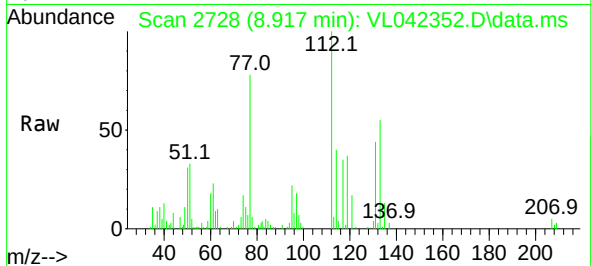
Tgt Ion:	131	Resp:	9987
Ion Ratio	Lower	Upper	
131	100		
133	102.0	78.3	117.5
119	1087.9	48.7	73.1#





#57
Chlorobenzene
Concen: 0.543 ppbv m
RT: 8.917 min Scan# 2728
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

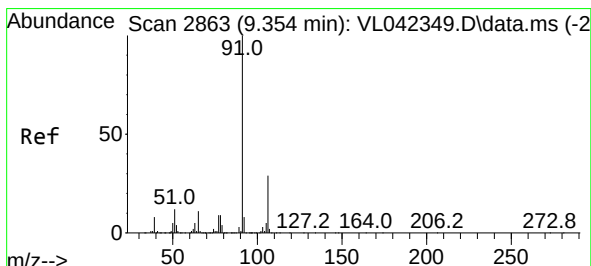
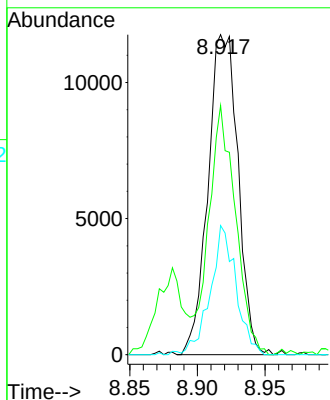
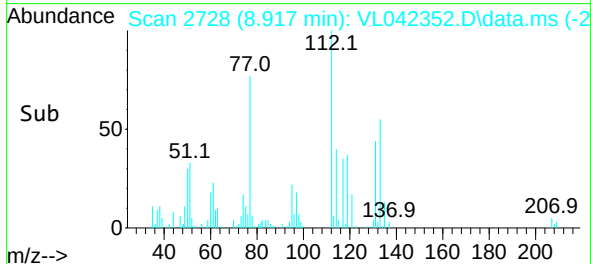
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



Tgt Ion: 112 Resp: 18149
Ion Ratio Lower Upper
112 100
77 77.8 57.8 86.6
114 40.4 29.3 35.9

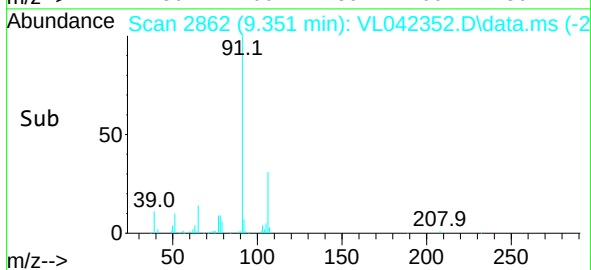
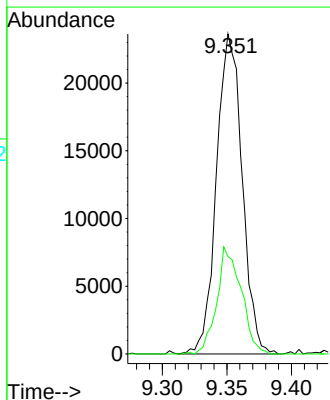
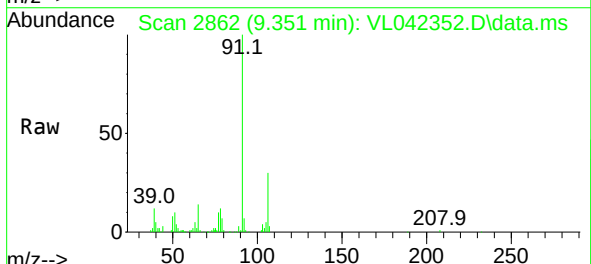
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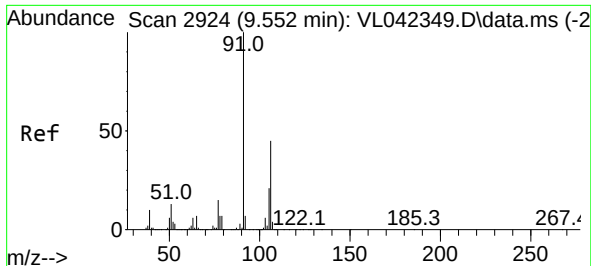
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#58
Ethyl Benzene
Concen: 0.512 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 91 Resp: 32624
Ion Ratio Lower Upper
91 100
106 30.5 23.0 34.4





#59

m/p-Xylene

Concen: 1.053 ppbv m

RT: 9.532 min Scan# 2918

Delta R.T. -0.019 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion: 91 Resp: 5419

Ion Ratio Lower Upper

91 100

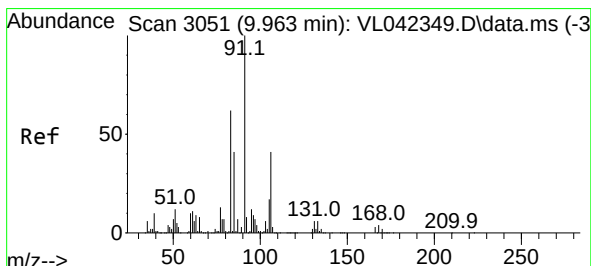
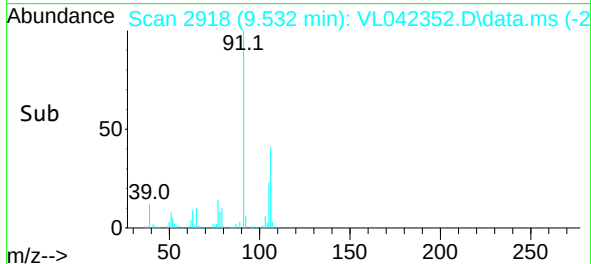
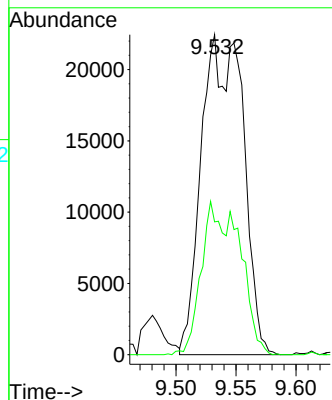
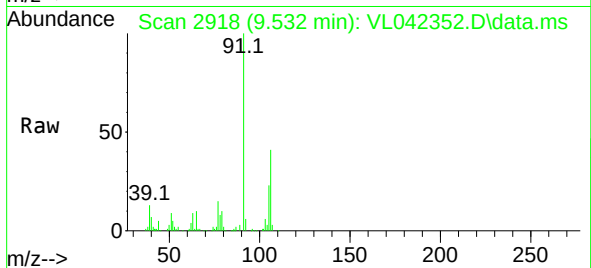
106 0.0 35.4 53.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#60

o-Xylene

Concen: 0.541 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. -0.000 min

Lab File: VL042352.D

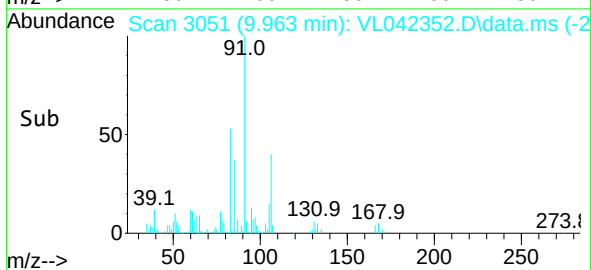
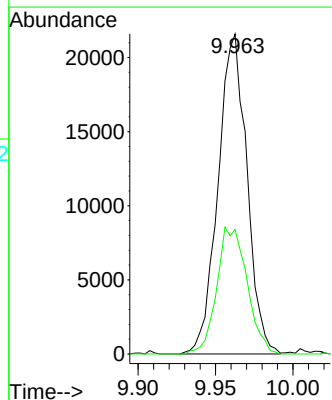
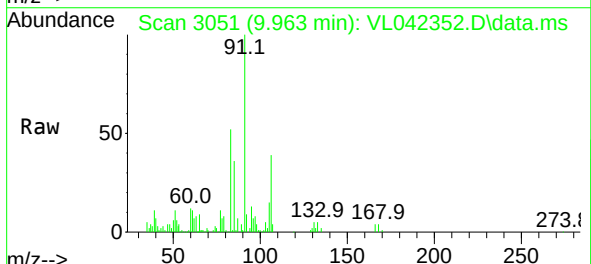
Acq: 17 Apr 2025 11:19

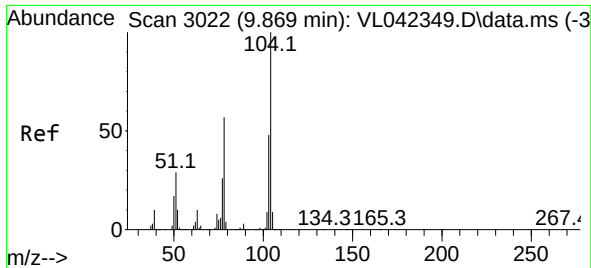
Tgt Ion: 91 Resp: 27983

Ion Ratio Lower Upper

91 100

106 41.6 21.1 63.4





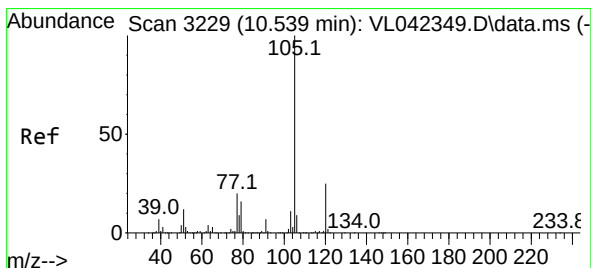
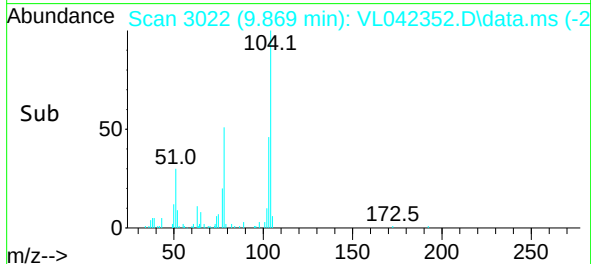
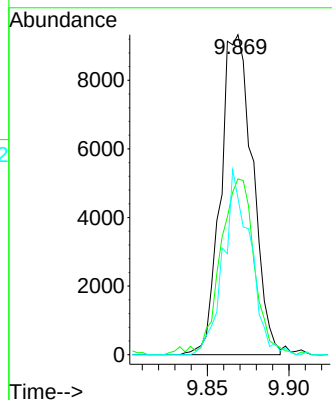
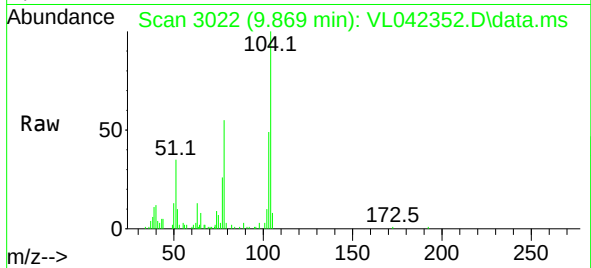
#61
Styrene
Concen: 0.516 ppbv
RT: 9.869 min Scan# 3022
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion:104 Resp: 12730
Ion Ratio Lower Upper
104 100
78 58.6 44.6 66.8
103 49.2 37.4 56.0

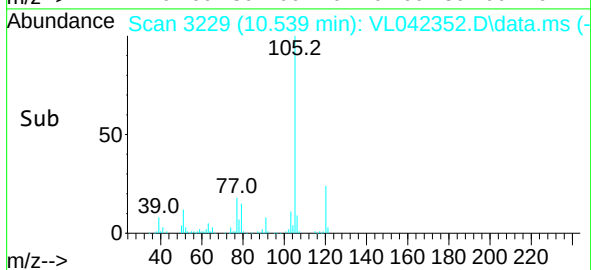
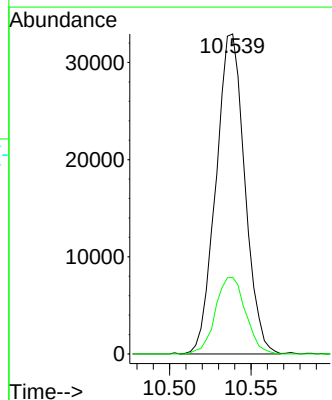
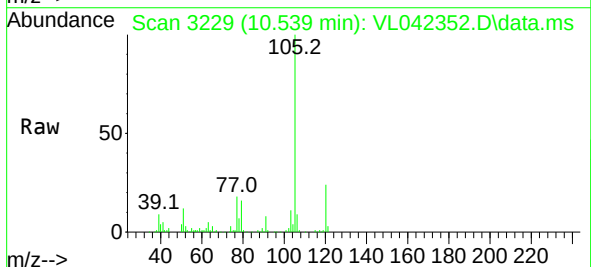
Manual Integrations
APPROVED

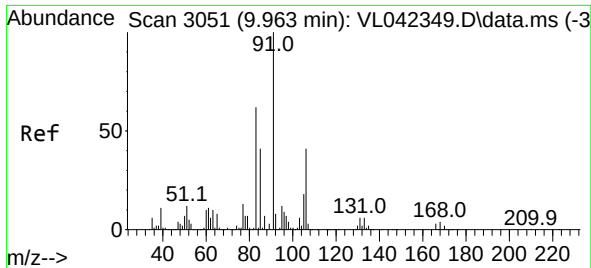
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#62
Isopropylbenzene
Concen: 0.533 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:105 Resp: 40481
Ion Ratio Lower Upper
105 100
120 24.9 19.8 29.8





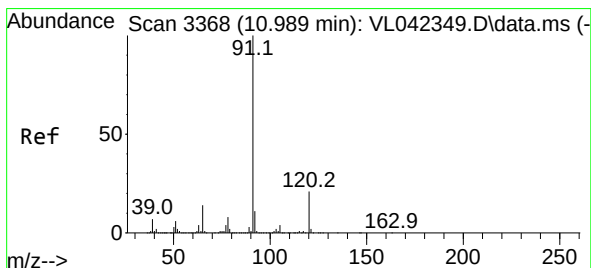
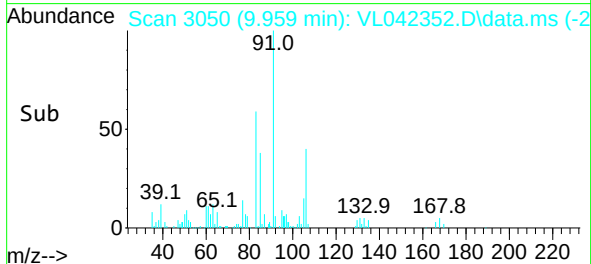
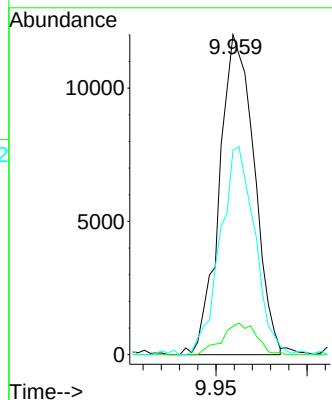
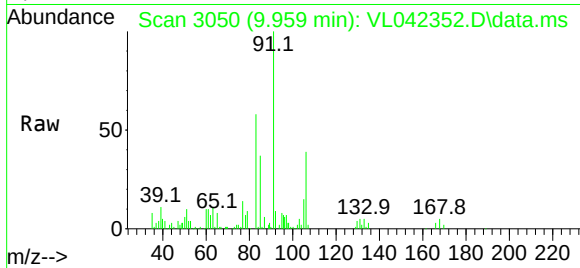
#63
1,1,2,2-Tetrachloroethane
Concen: 0.474 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 83 Resp: 15920
Ion Ratio Lower Upper
83 100
131 9.8 4.5 13.7
85 65.6 32.4 97.0

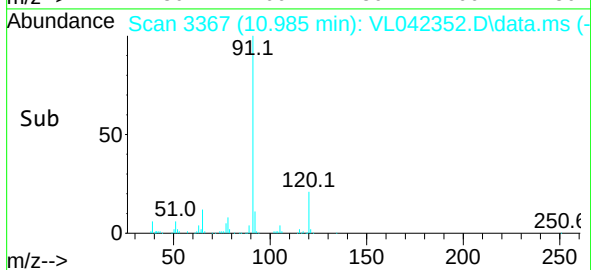
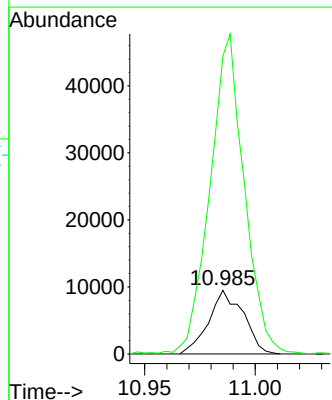
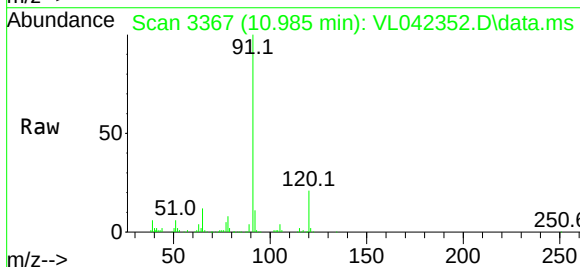
Manual Integrations
APPROVED

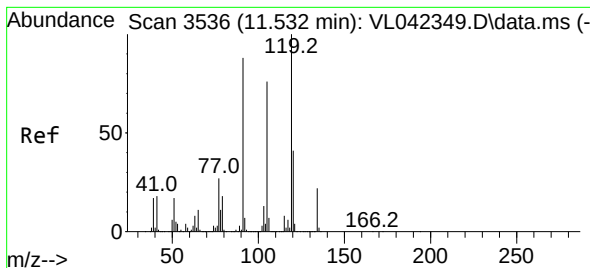
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#64
n-propylbenzene
Concen: 0.544 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:120 Resp: 10369
Ion Ratio Lower Upper
120 100
91 499.6 392.4 588.6





#65

tert-Butylbenzene

Concen: 0.535 ppbv

RT: 11.529 min Scan# 3535

Delta R.T. -0.003 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA_L

ClientSampleId :

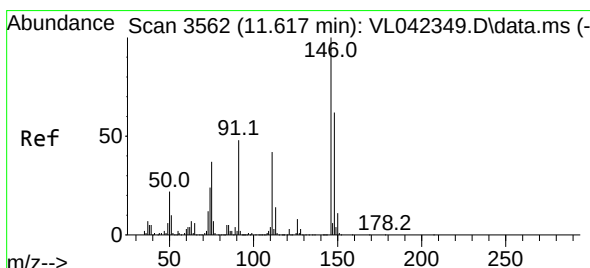
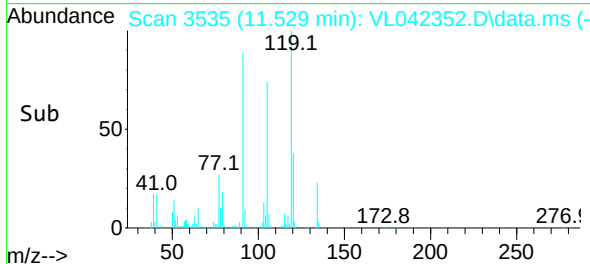
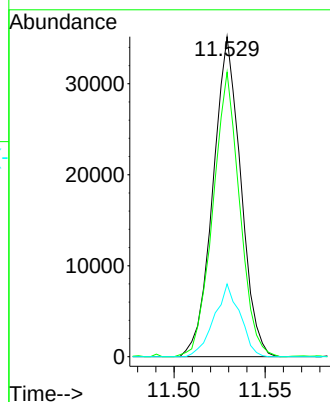
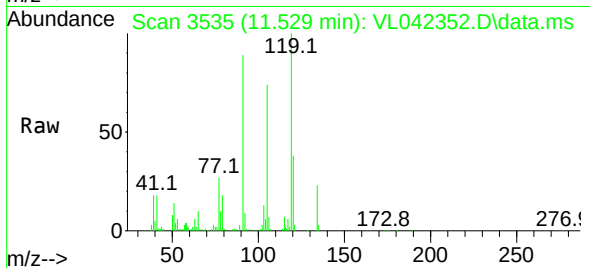
VSTDIC0.5

Tgt Ion:	119	Resp:	37294
Ion	Ratio	Lower	Upper
119	100		
91	85.8	74.6	111.8
134	21.1	18.8	28.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#66

Benzyl Chloride

Concen: 0.506 ppbv

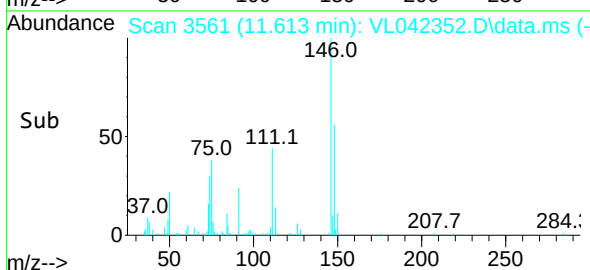
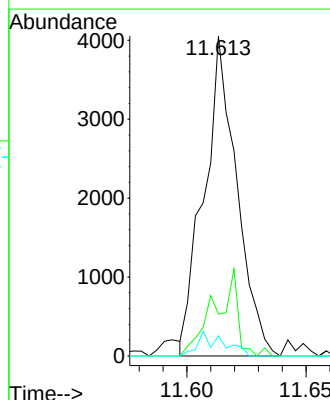
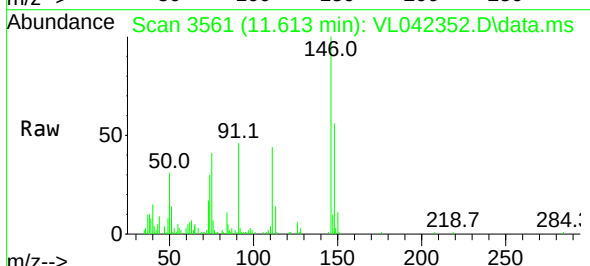
RT: 11.613 min Scan# 3561

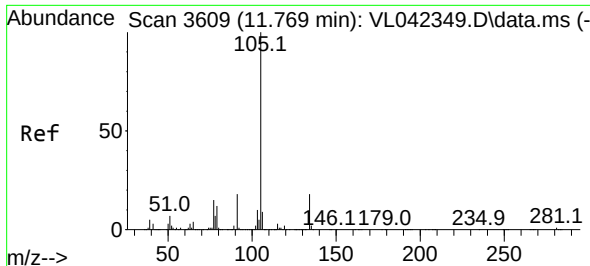
Delta R.T. -0.003 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

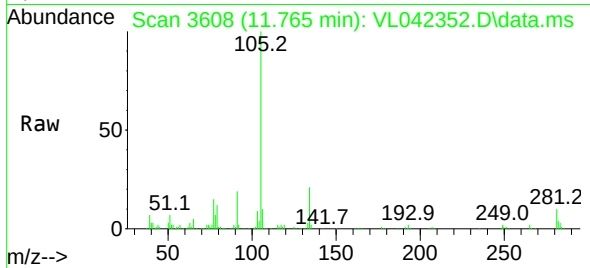
Tgt Ion:	91	Resp:	3878
Ion	Ratio	Lower	Upper
91	100		
126	19.8	11.8	17.6#
128	5.8	4.5	6.7





#67
 sec-Butylbenzene
 Concen: 0.537 ppbv
 RT: 11.765 min Scan# 3609
 Delta R.T. -0.003 min
 Lab File: VL042352.D
 Acq: 17 Apr 2025 11:19

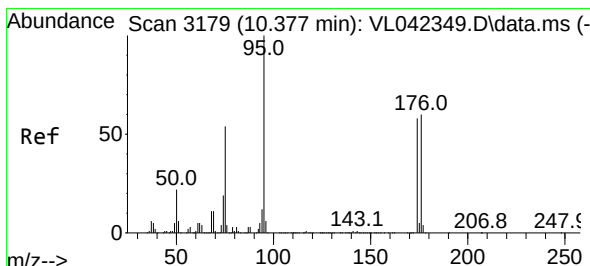
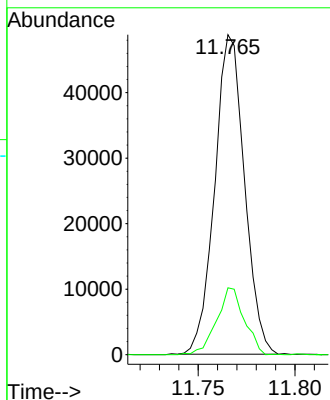
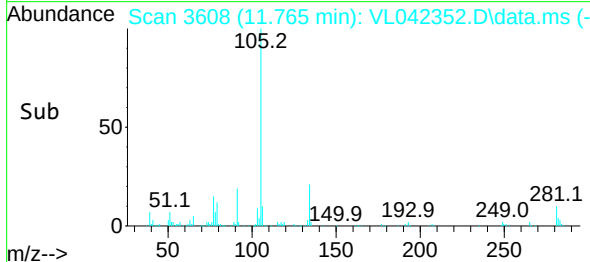
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



Tgt Ion:105 Resp: 52139
 Ion Ratio Lower Upper
 105 100
 134 19.5 14.6 21.8

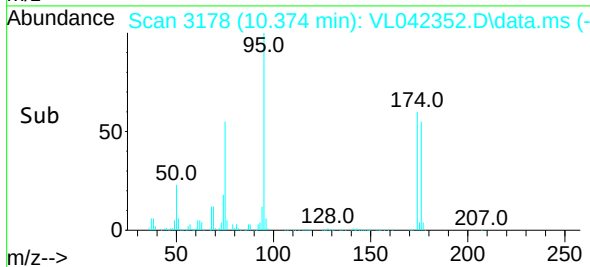
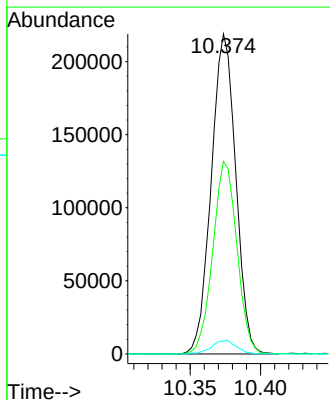
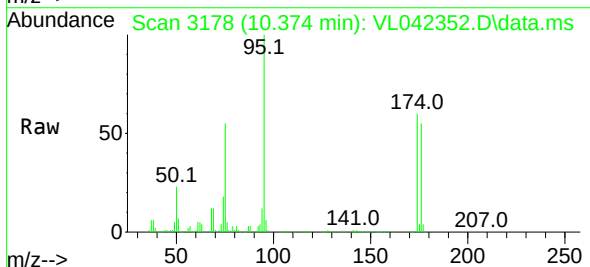
Manual Integrations
 APPROVED

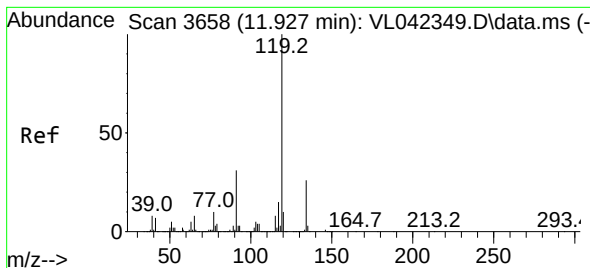
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.032 ppbv
 RT: 10.374 min Scan# 3178
 Delta R.T. -0.003 min
 Lab File: VL042352.D
 Acq: 17 Apr 2025 11:19

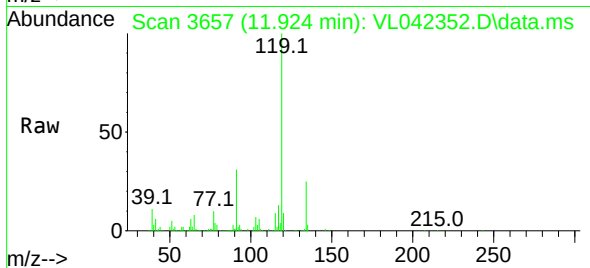
Tgt Ion: 95 Resp: 265161
 Ion Ratio Lower Upper
 95 100
 174 59.4 48.5 72.7
 175 4.3 3.7 5.5





#69
p-Isopropyltoluene
Concen: 0.541 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

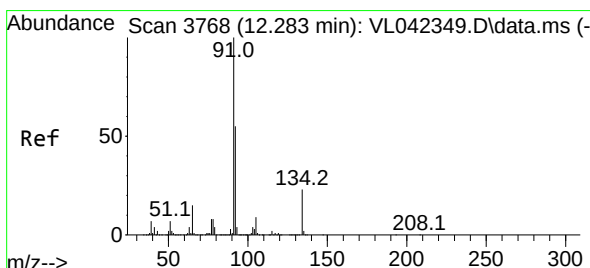
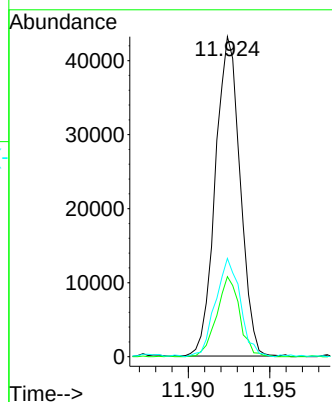
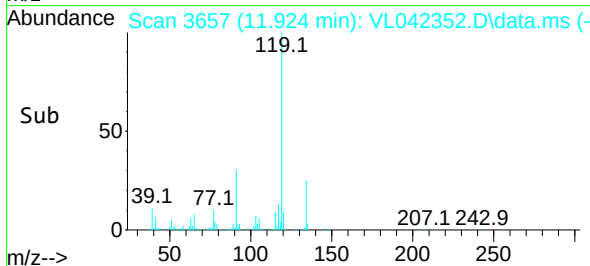
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



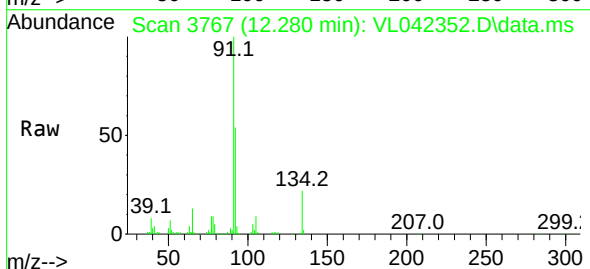
Tgt Ion:119 Resp: 45574
Ion Ratio Lower Upper
119 100
134 23.3 20.0 30.0
91 31.4 24.4 36.6

Manual Integrations
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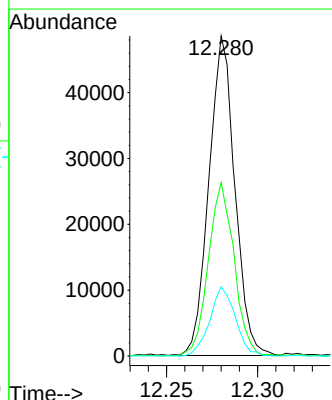
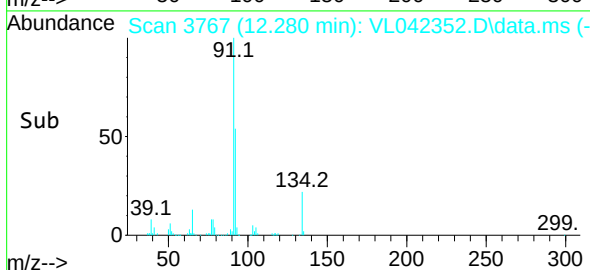
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

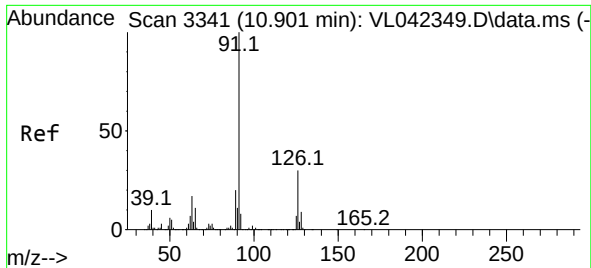


#70
n-Butylbenzene
Concen: 0.547 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19



Tgt Ion: 91 Resp: 48004
Ion Ratio Lower Upper
91 100
92 54.7 44.2 66.4
134 21.4 18.2 27.4





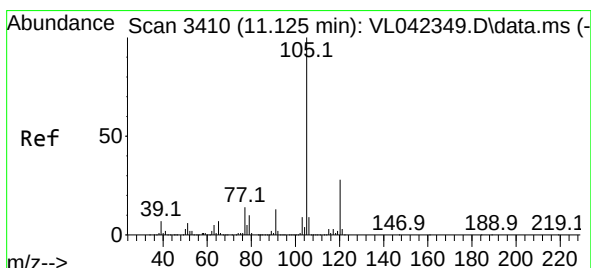
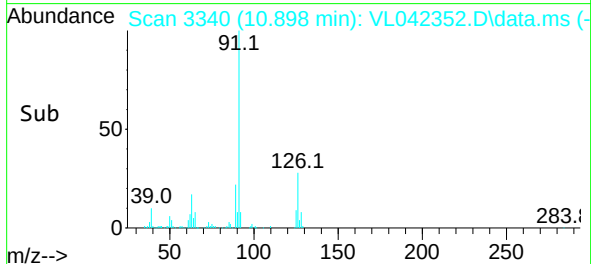
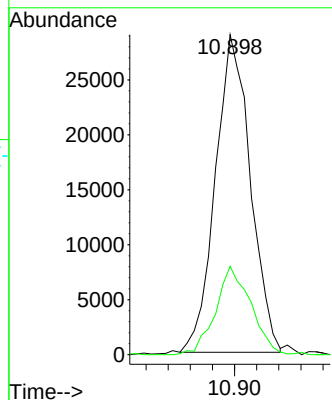
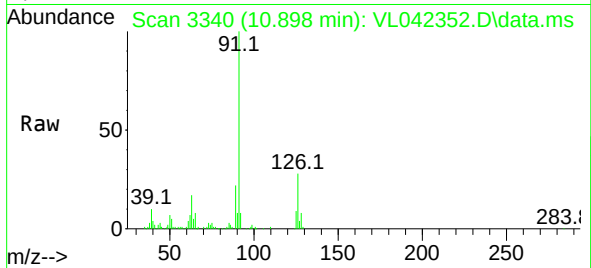
#71
2-Chlorotoluene
Concen: 0.533 ppbv
RT: 10.898 min Scan# 3170
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 91 Resp: 3170
Ion Ratio Lower Upper
91 100
126 28.3 11.4 45.4

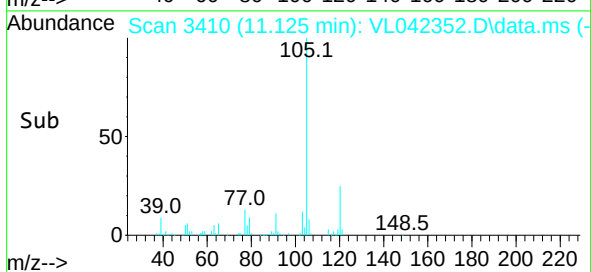
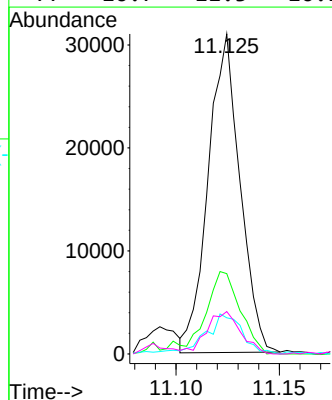
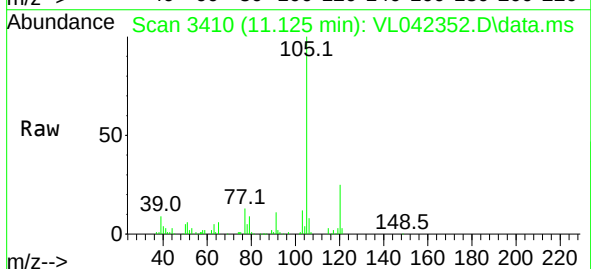
Manual Integrations
APPROVED

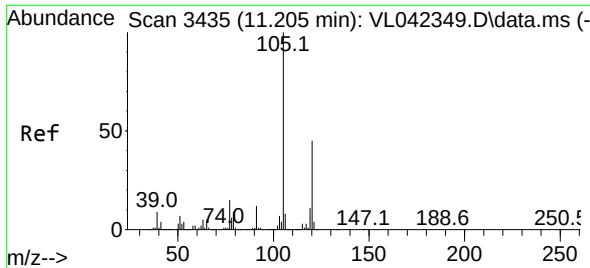
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#72
4-Ethyltoluene
Concen: 0.523 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

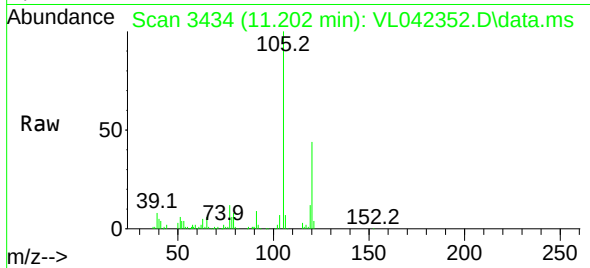
Tgt Ion:105 Resp: 33048
Ion Ratio Lower Upper
105 100
120 30.5 23.2 34.8
91 15.7 10.4 15.6#
77 16.7 11.3 16.9





#73
1,3,5-Trimethylbenzene
Concen: 0.546 ppbv
RT: 11.202 min Scan# 3434
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

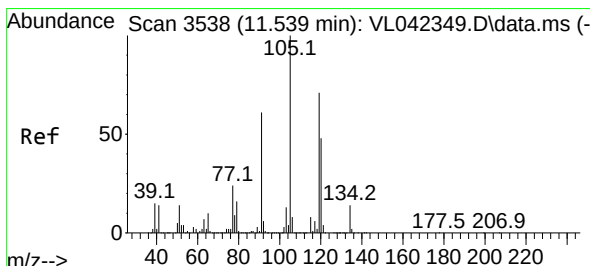
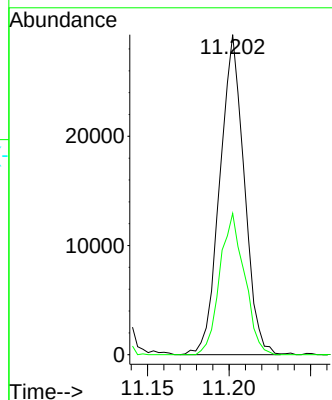
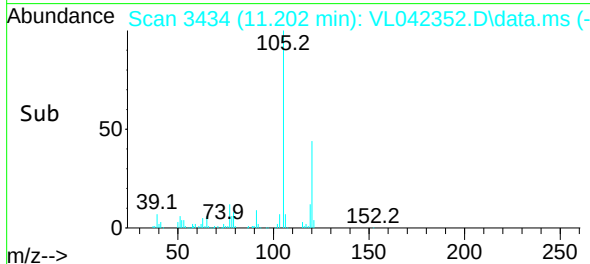
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



Tgt Ion:105 Resp: 3046
Ion Ratio Lower Upper
105 100
120 44.1 35.6 53.4

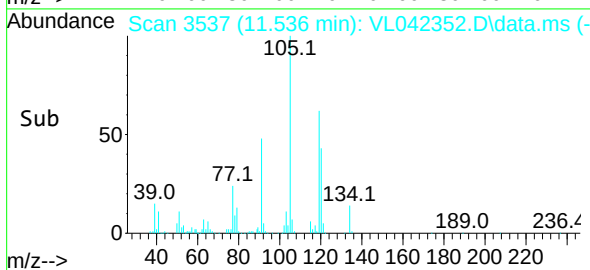
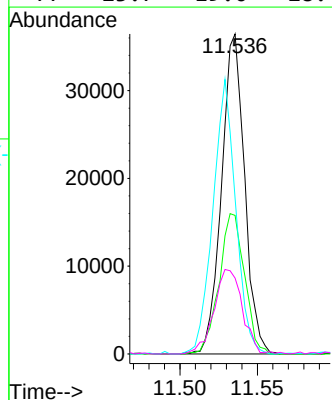
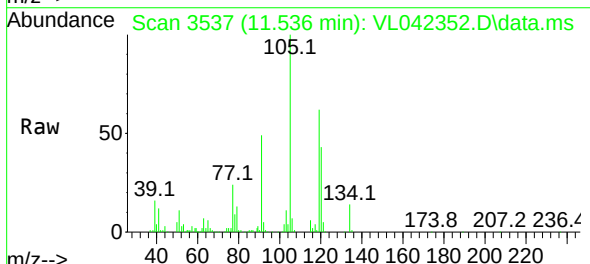
Manual Integrations
APPROVED

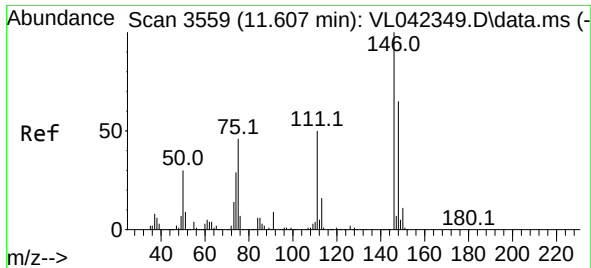
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#74
1,2,4-Trimethylbenzene
Concen: 0.579 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:105 Resp: 37765
Ion Ratio Lower Upper
105 100
120 43.3 38.1 57.1
91 48.7 48.8 73.2#
77 23.7 19.0 28.4





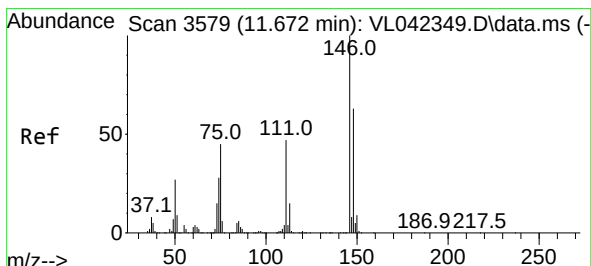
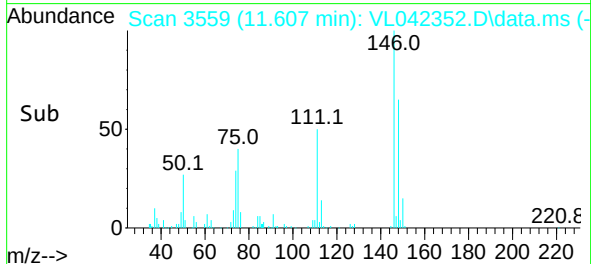
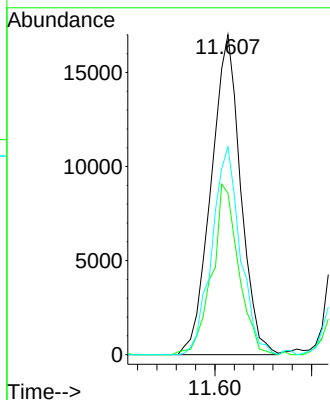
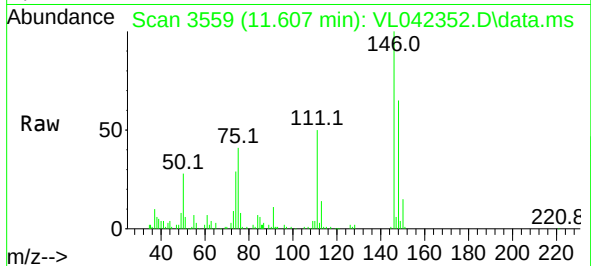
#75
1,3-Dichlorobenzene
Concen: 0.531 ppbv
RT: 11.607 min Scan# 3559
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion:146 Resp: 18000
Ion Ratio Lower Upper
146 100
111 47.9 24.3 72.8
148 62.9 31.6 94.8

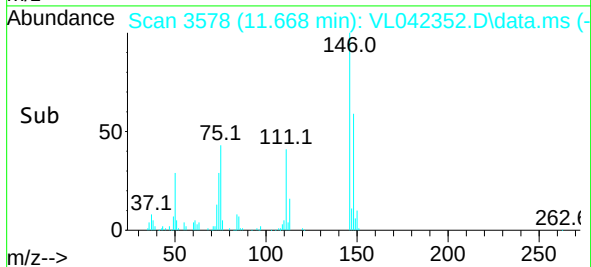
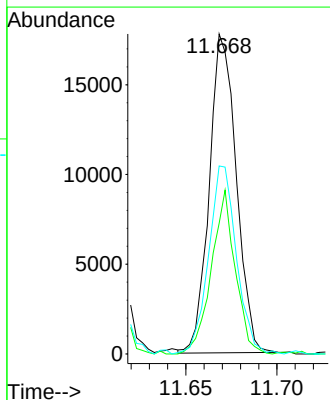
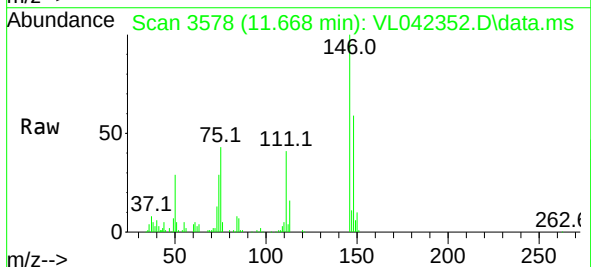
Manual Integrations
APPROVED

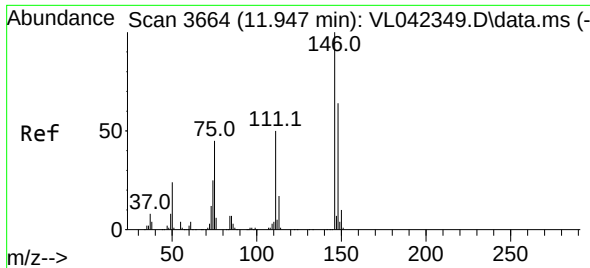
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#76
1,4-Dichlorobenzene
Concen: 0.537 ppbv
RT: 11.668 min Scan# 3578
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

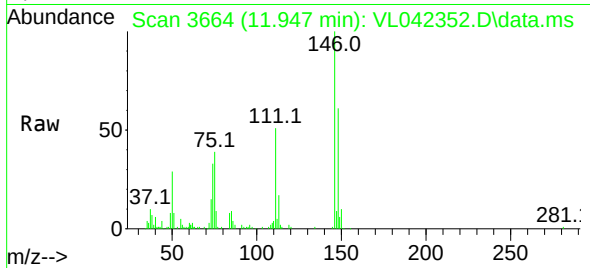
Tgt Ion:146 Resp: 18300
Ion Ratio Lower Upper
146 100
111 45.9 24.2 72.6
148 61.2 32.1 96.5





#77
1,2-Dichlorobenzene
Concen: 0.530 ppbv
RT: 11.947 min Scan# 30
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

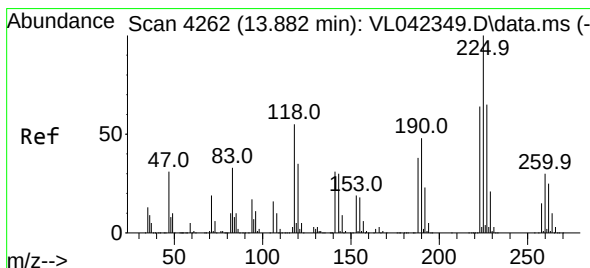
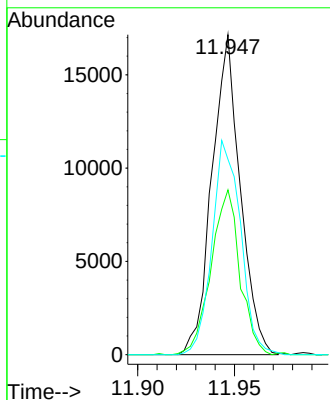
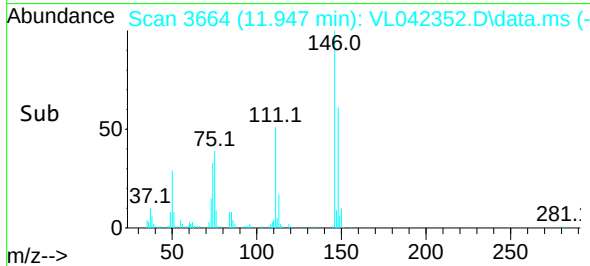
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



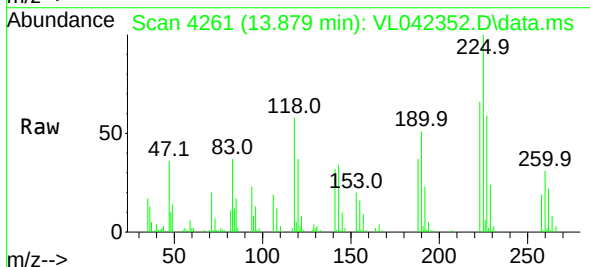
Tgt Ion:146 Resp: 17440
Ion Ratio Lower Upper
146 100
111 52.6 25.3 75.9
148 67.5 31.5 94.5

Manual Integrations
APPROVED

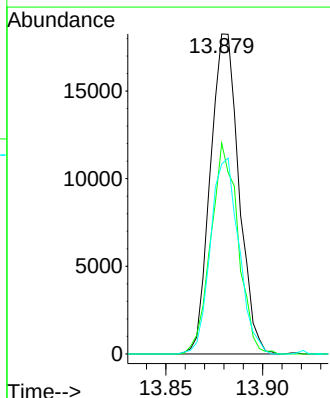
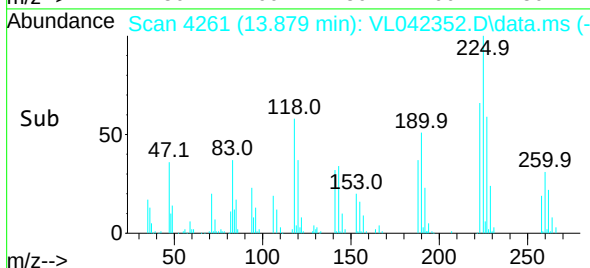
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

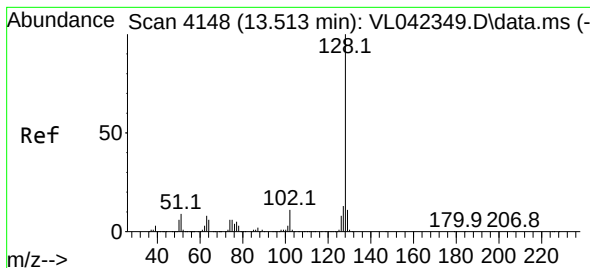


#78
Hexachloro-1,3-Butadiene
Concen: 0.562 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19



Tgt Ion:225 Resp: 18705
Ion Ratio Lower Upper
225 100
223 62.8 50.3 75.5
227 61.1 51.5 77.3





#79

Naphthalene

Concen: 0.494 ppbv

RT: 13.513 min Scan# 4148

Delta R.T. -0.000 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA_L

ClientSampleId :

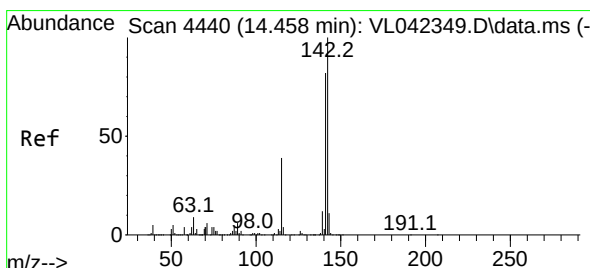
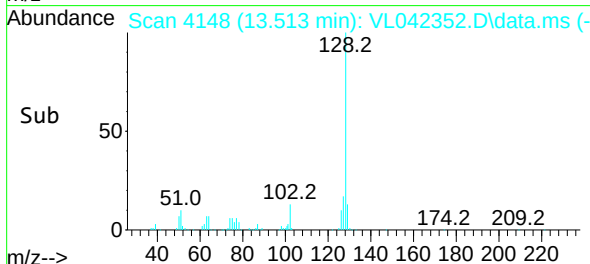
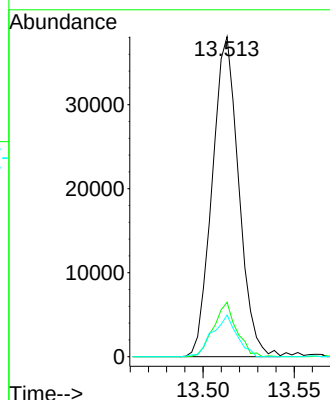
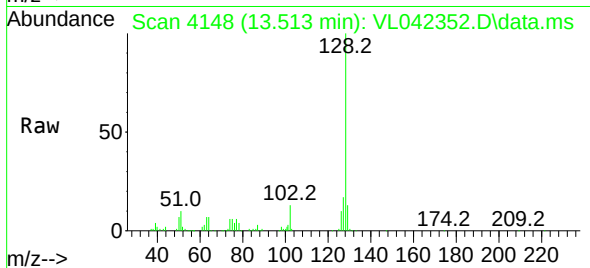
VSTDIC0.5

Tgt Ion:128	Resp:	3852
Ion Ratio	Lower	Upper
128	100	
127	17.0	10.6 15.8
129	13.0	8.6 12.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#80

Naphthalene,2-methyl-

Concen: 0.475 ppbv

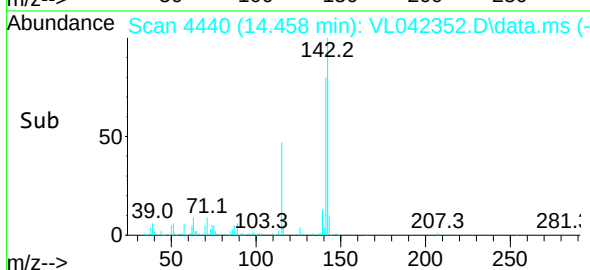
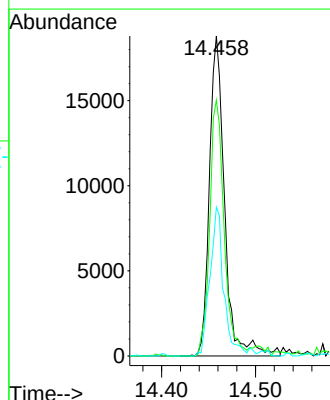
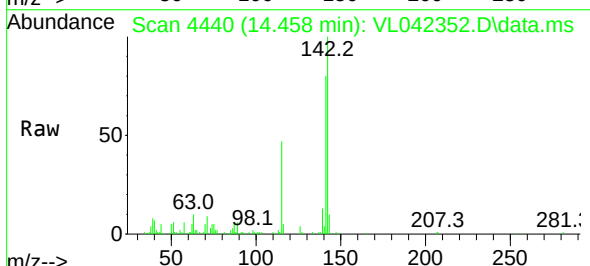
RT: 14.458 min Scan# 4440

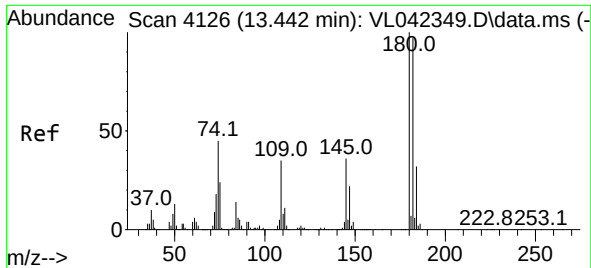
Delta R.T. -0.000 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Tgt Ion:142	Resp:	21076
Ion Ratio	Lower	Upper
142	100	
141	79.2	66.8 100.2
115	44.1	33.4 50.2





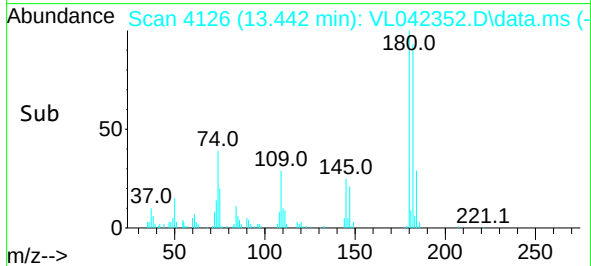
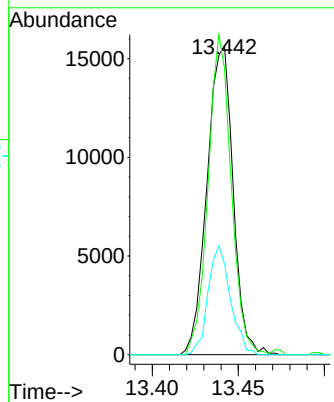
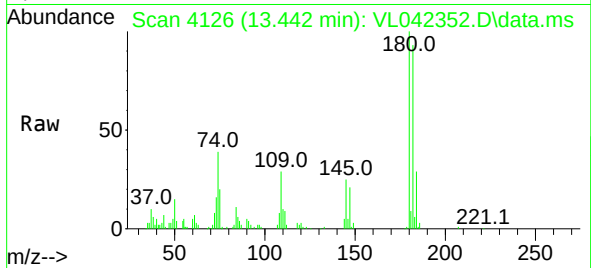
#81
 1,2,4-Trichlorobenzene
 Concen: 0.493 ppbv
 RT: 13.442 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL042352.D
 Acq: 17 Apr 2025 11:19

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tgt Ion:180 Resp: 16504
 Ion Ratio Lower Upper
 180 100
 182 92.4 76.8 115.2
 184 30.2 24.6 36.8

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042353.D
 Acq On : 17 Apr 2025 11:50
 Operator : SY/MD
 Sample : VSTDICC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.1

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 04/18/2025
 Supervised By : Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 01:29:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025
 QLast Update : Fri Apr 18 01:24:29 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.791	49	119461	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	350484	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	315004	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.381	95	256417	9.906	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.100%
Target Compounds						
5) Vinyl Chloride	1.580	62	1088	0.120	ppbv #	74
32) 1,1,1-Trichloroethane	3.367	97	3393m	0.115	ppbv	
35) Carbon Tetrachloride	3.771	117	3204	0.101	ppbv #	94
38) Trichloroethene	4.551	130	1771m	0.107	ppbv	
52) Tetrachloroethene	8.222	164	1583m	0.108	ppbv	
54) 1,2-Dibromoethane	7.662	107	2177m	0.106	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.966	83	3706m	0.113	ppbv	
79) Naphthalene	13.517	128	7664	0.100	ppbv #	92

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

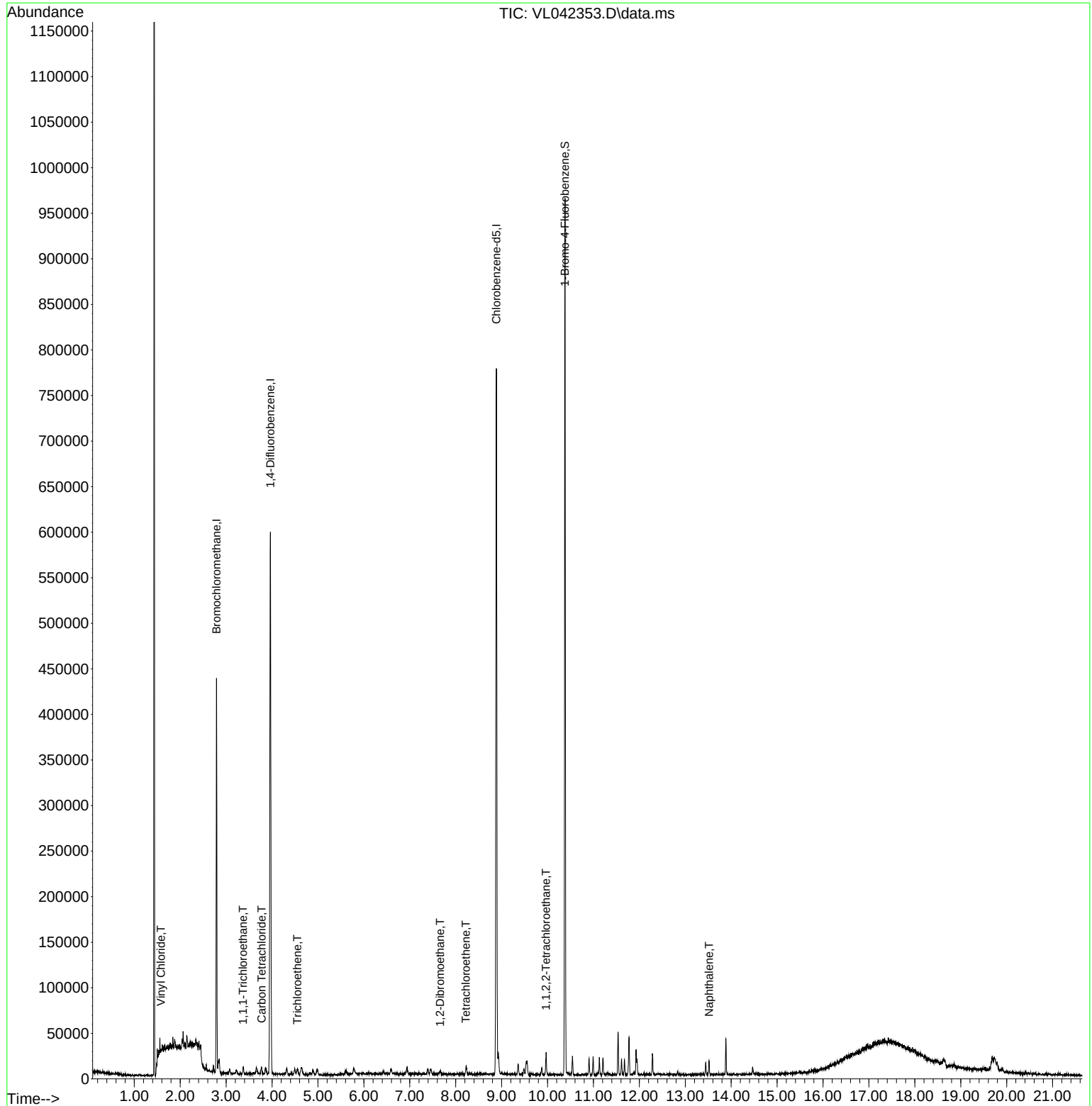
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Data File : VL042353.D
Acq On : 17 Apr 2025 11:50
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

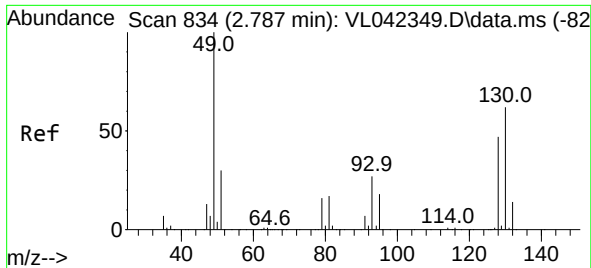
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

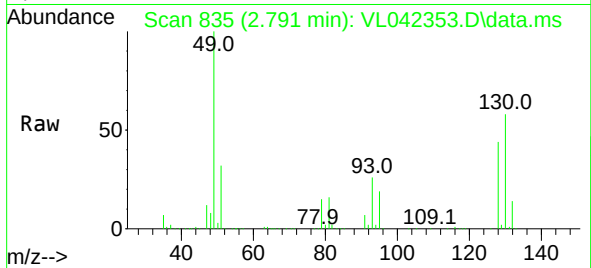
Quant Time: Apr 18 01:29:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.791 min Scan# 834
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

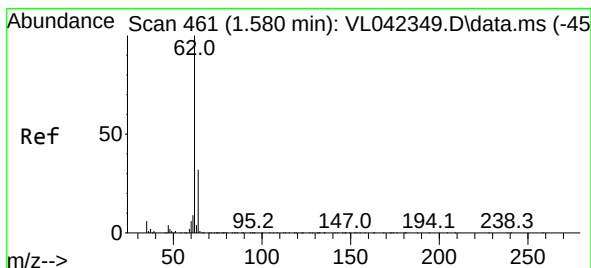
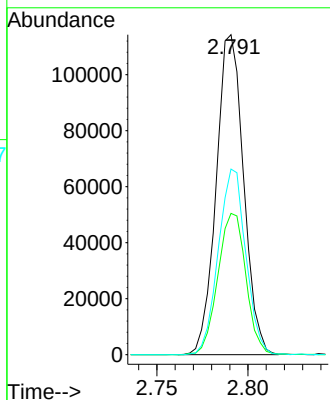
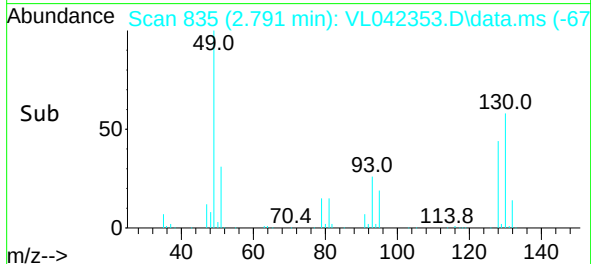
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1



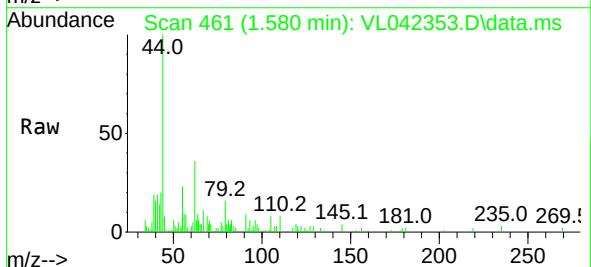
Tgt Ion: 49 Resp: 11946
Ion Ratio Lower Upper
49 100
128 45.3 22.8 68.4
130 58.3 29.3 88.0

Manual Integrations
APPROVED

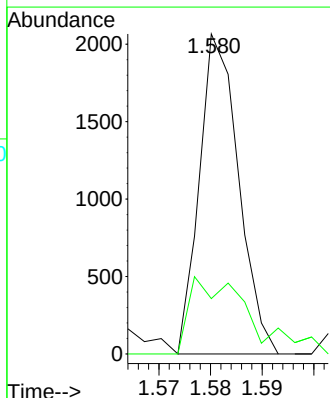
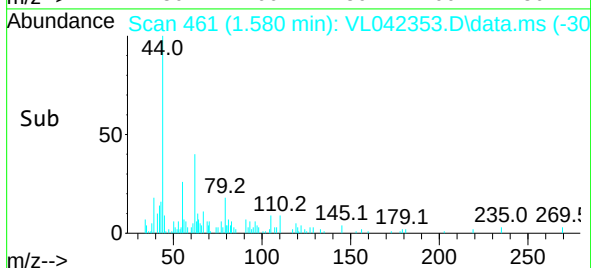
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

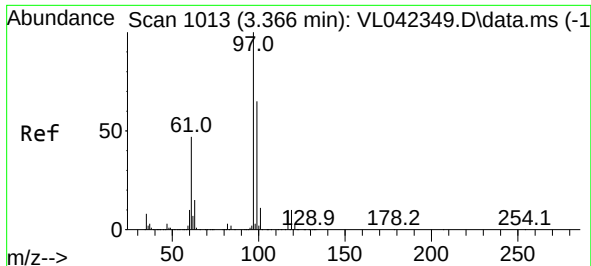


#5
Vinyl Chloride
Concen: 0.120 ppbv
RT: 1.580 min Scan# 461
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50



Tgt Ion: 62 Resp: 1088
Ion Ratio Lower Upper
62 100
64 17.3 25.4 38.0#





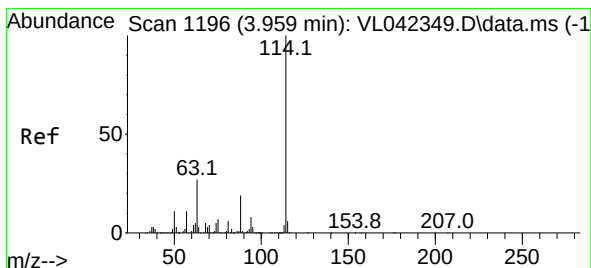
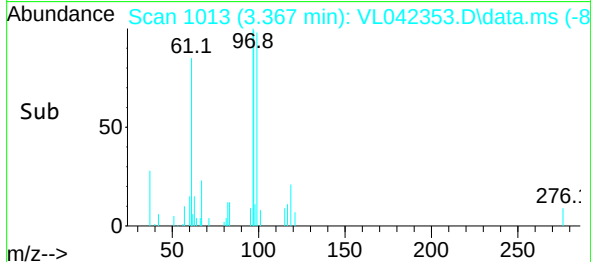
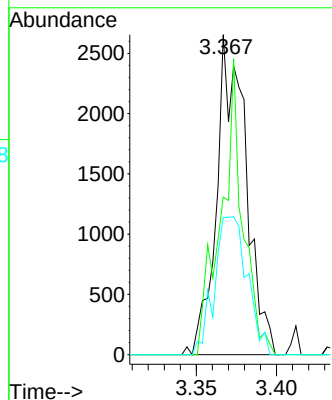
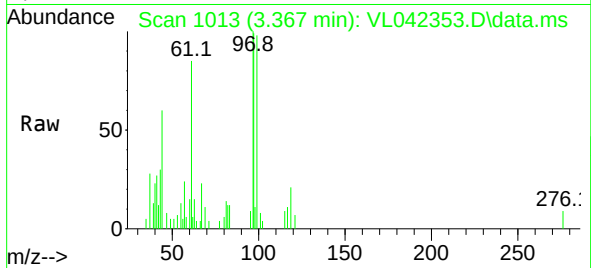
#32
 1,1,1-Trichloroethane
 Concen: 0.115 ppbv m
 RT: 3.367 min Scan# 1013
 Delta R.T. 0.000 min
 Lab File: VL042353.D
 Acq: 17 Apr 2025 11:50

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

Tgt Ion: 97	Resp: 339
Ion Ratio	Lower Upper
97 100	
99 68.2	51.0 76.4
61 47.9	38.8 58.2

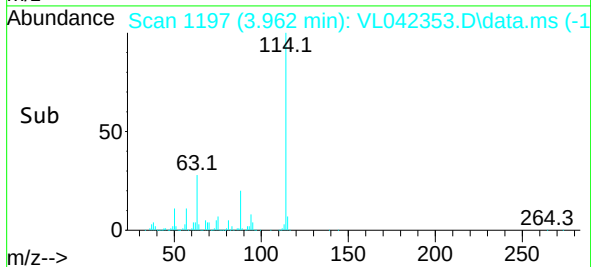
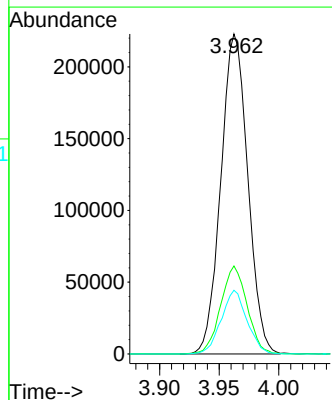
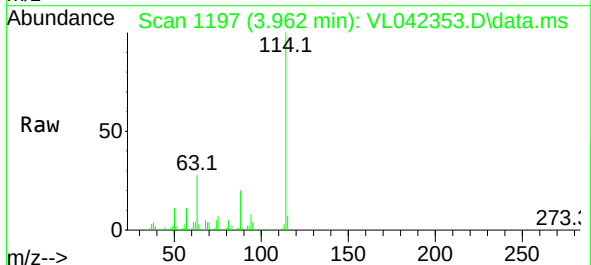
Manual Integrations
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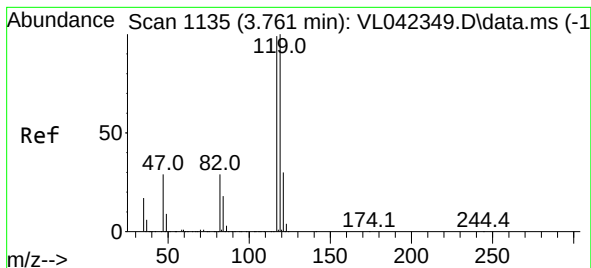
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.962 min Scan# 1197
 Delta R.T. 0.004 min
 Lab File: VL042353.D
 Acq: 17 Apr 2025 11:50

Tgt Ion:114	Resp: 350484
Ion Ratio	Lower Upper
114 100	
63 26.9	21.8 32.6
88 19.1	15.5 23.3





#35

Carbon Tetrachloride

Concen: 0.101 ppbv

RT: 3.771 min Scan# 1135

Delta R.T. 0.010 min

Lab File: VL042353.D

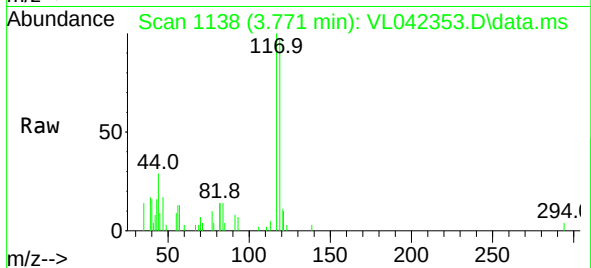
Acq: 17 Apr 2025 11:50

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.1



Tgt Ion:117 Resp: 3204

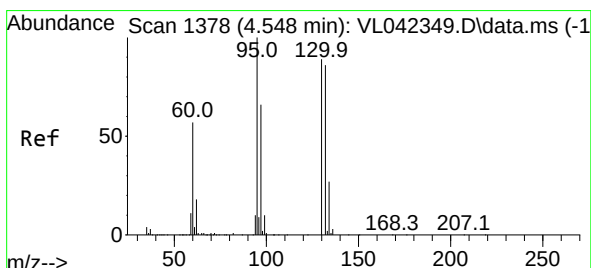
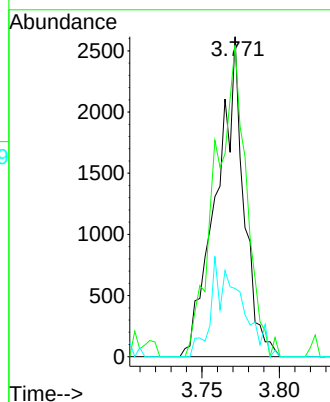
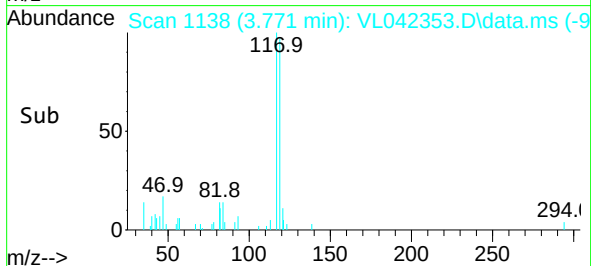
Ion	Ratio	Lower	Upper
117	100		
119	97.3	80.5	120.7
121	21.3	24.2	36.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#38

Trichloroethene

Concen: 0.107 ppbv m

RT: 4.551 min Scan# 1379

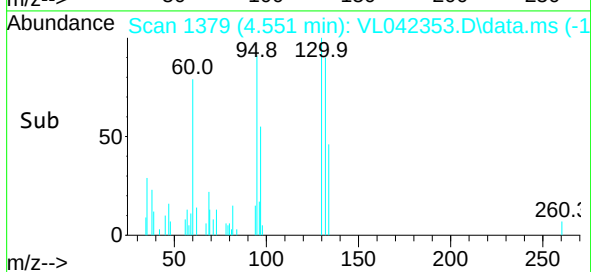
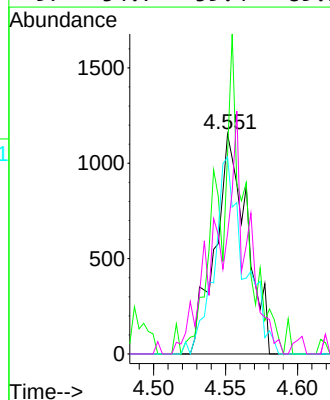
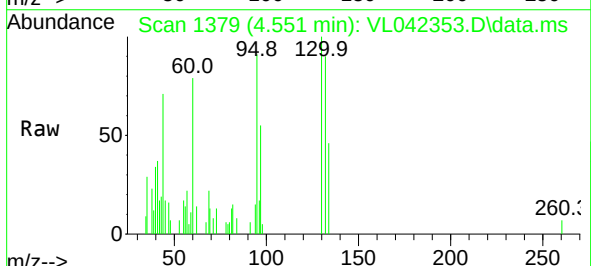
Delta R.T. 0.004 min

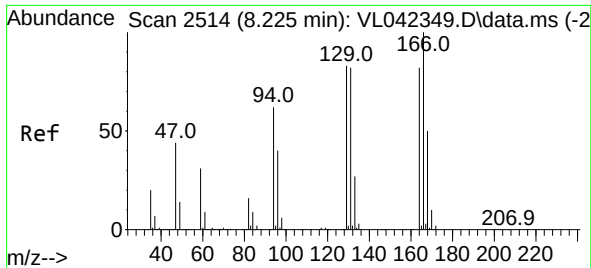
Lab File: VL042353.D

Acq: 17 Apr 2025 11:50

Tgt Ion:130 Resp: 1771

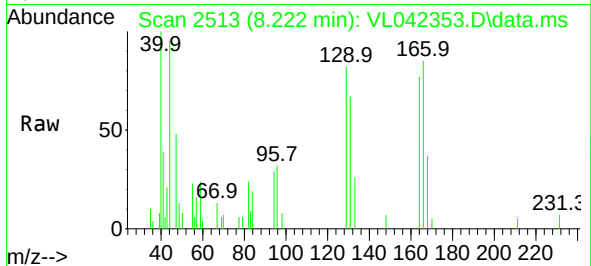
Ion	Ratio	Lower	Upper
130	100		
95	90.9	89.8	134.6
132	89.6	77.7	116.5
97	54.7	59.4	89.2





#52
Tetrachloroethene
Concen: 0.108 ppbv m
RT: 8.222 min Scan# 2158
Delta R.T. -0.003 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

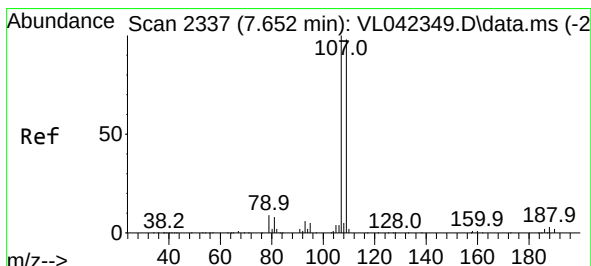
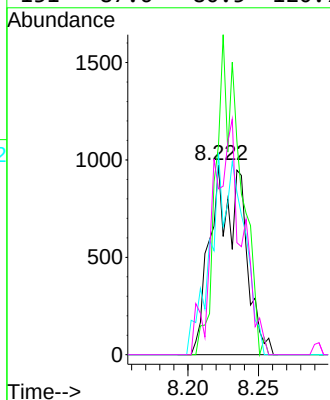
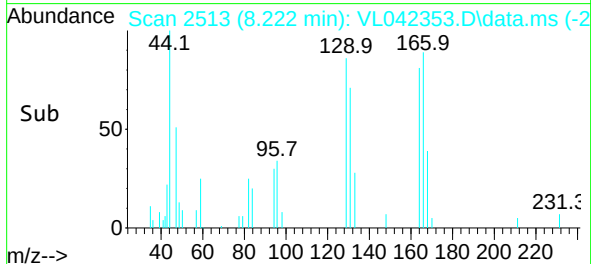
Instrument : MSVOA_L
ClientSampleId : VSTDIC0.1



Tgt Ion:164 Resp: 158
Ion Ratio Lower Upper
164 100
166 110.6 98.2 147.2
129 106.5 81.8 122.8
131 87.6 80.5 120.7

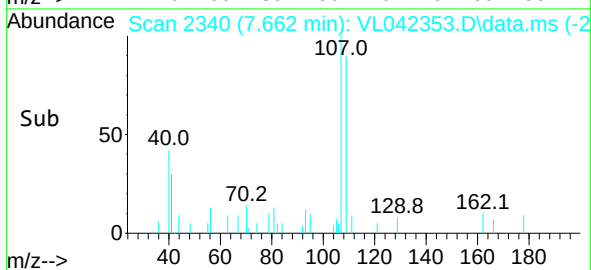
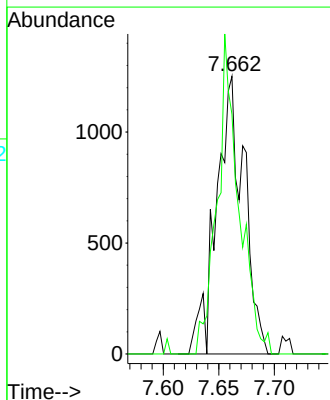
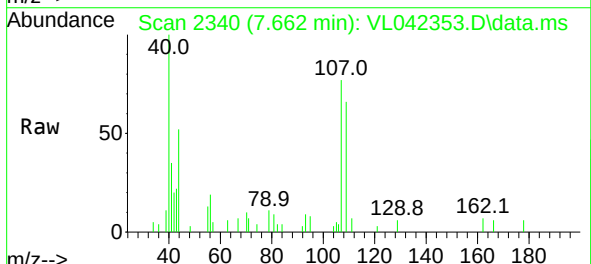
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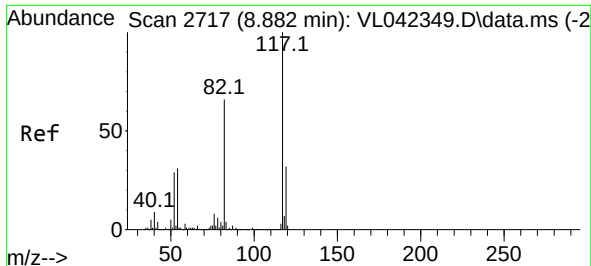
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#54
1,2-Dibromoethane
Concen: 0.106 ppbv m
RT: 7.662 min Scan# 2340
Delta R.T. 0.010 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion:107 Resp: 2177
Ion Ratio Lower Upper
107 100
109 86.3 78.2 117.4





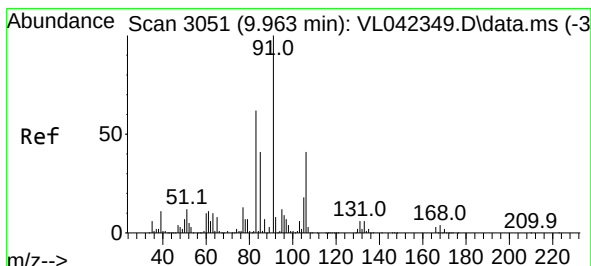
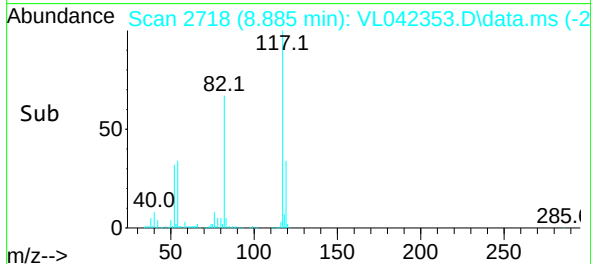
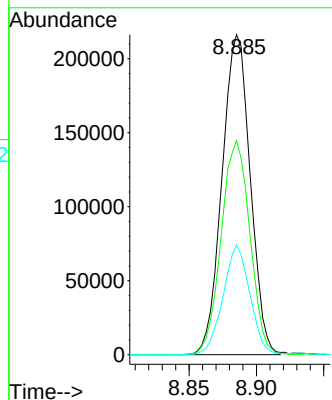
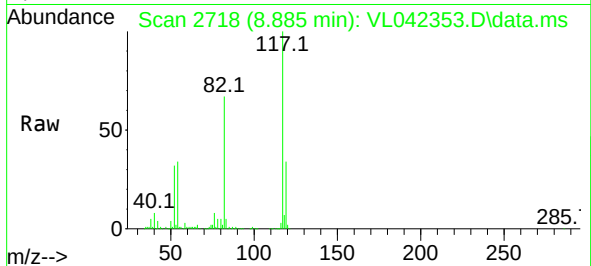
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2718
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

Tgt Ion: 117 Resp: 315004
Ion Ratio Lower Upper
117 100
82 68.1 57.8 86.6
119 33.0 25.2 37.8

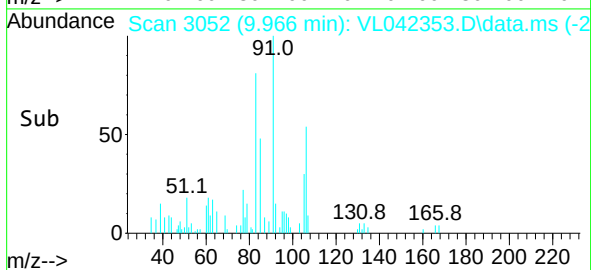
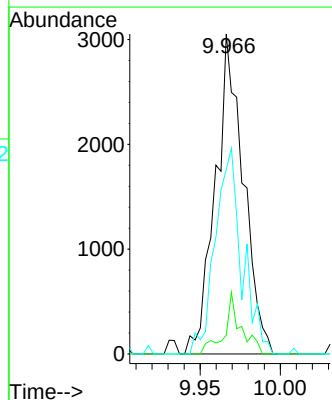
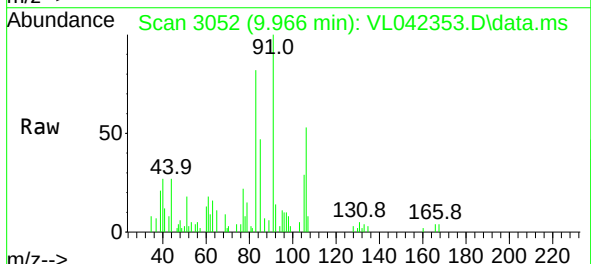
Manual Integrations
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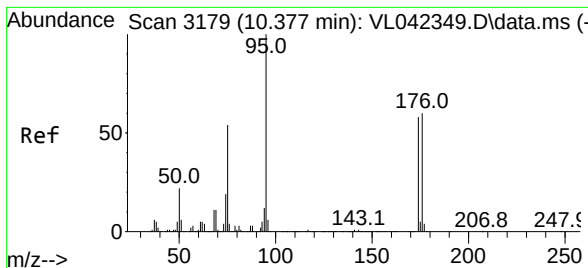
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#63
1,1,2,2-Tetrachloroethane
Concen: 0.113 ppbv m
RT: 9.966 min Scan# 3052
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

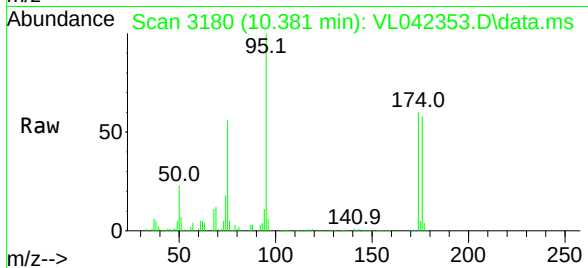
Tgt Ion: 83 Resp: 3706
Ion Ratio Lower Upper
83 100
131 11.2 4.5 13.7
85 61.7 32.4 97.0





#68
1-Bromo-4-Fluorobenzene
Concen: 9.906 ppbv
RT: 10.381 min Scan# 3179
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

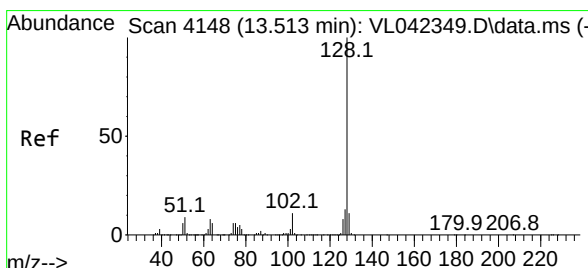
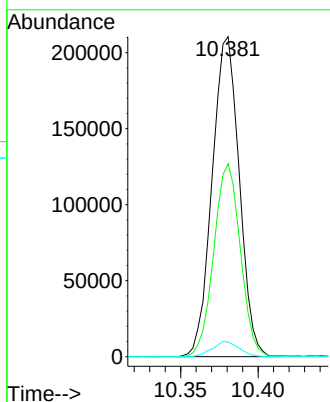
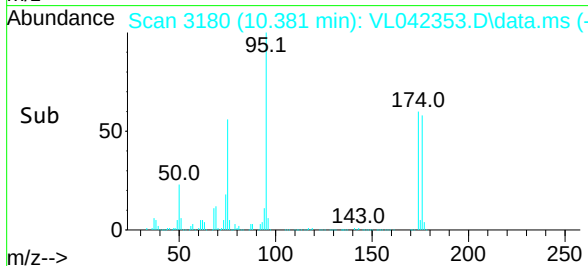
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1



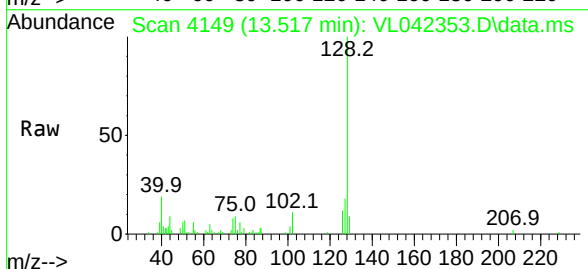
Tgt Ion: 95 Resp: 25641
Ion Ratio Lower Upper
95 100
174 59.3 48.5 72.7
175 4.7 3.7 5.5

Manual Integrations
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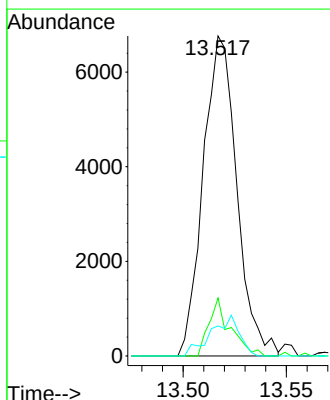
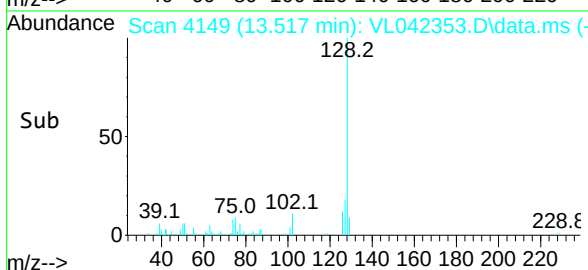
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#79
Naphthalene
Concen: 0.100 ppbv
RT: 13.517 min Scan# 4149
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50



Tgt Ion:128 Resp: 7664
Ion Ratio Lower Upper
128 100
127 18.1 10.6 15.8#
129 9.4 8.6 12.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042354.D
 Acq On : 17 Apr 2025 12:22
 Operator : SY/MD
 Sample : VSTDICC0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 02:07:48 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025

QLast Update : Fri Apr 18 01:24:29 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	120042	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	349264	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	312999	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	256230	9.962	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.600%
Target Compounds						
5) Vinyl Chloride	1.583	62	361	0.040	ppbv	Qvalue # 76
32) 1,1,1-Trichloroethane	3.373	97	1120m	0.038	ppbv	
35) Carbon Tetrachloride	3.768	117	1382m	0.044	ppbv	
38) Trichloroethene	4.538	130	674m	0.041	ppbv	
52) Tetrachloroethene	8.228	164	569m	0.039	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.972	83	1321m	0.040	ppbv	

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

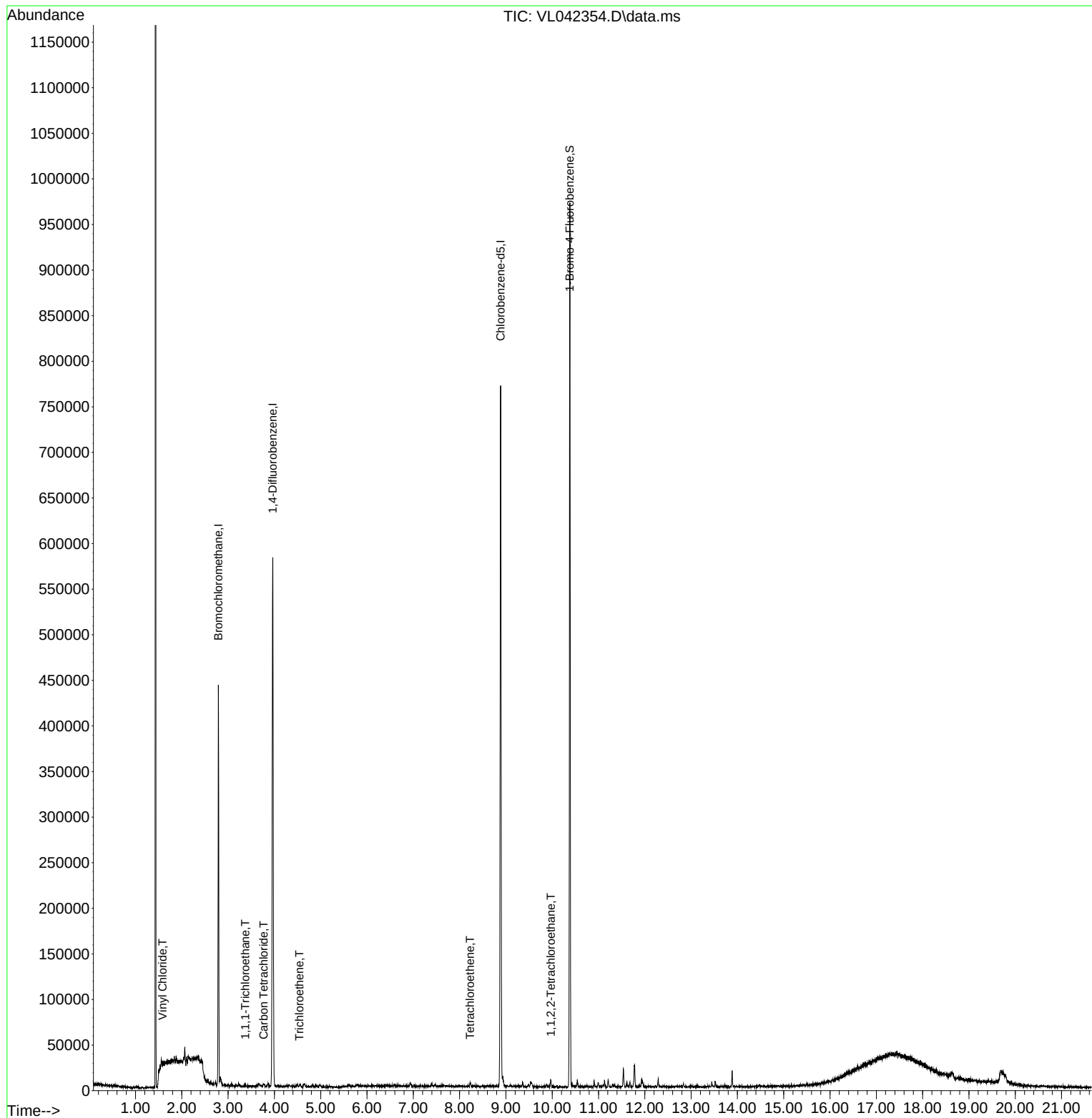
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Data File : VL042354.D
Acq On : 17 Apr 2025 12:22
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

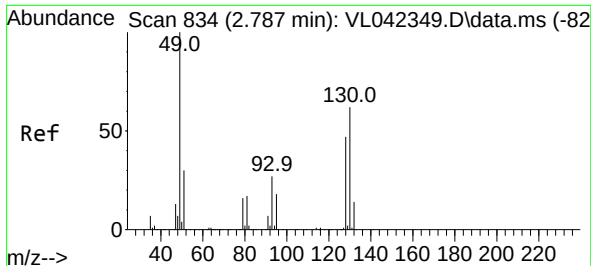
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 02:07:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration





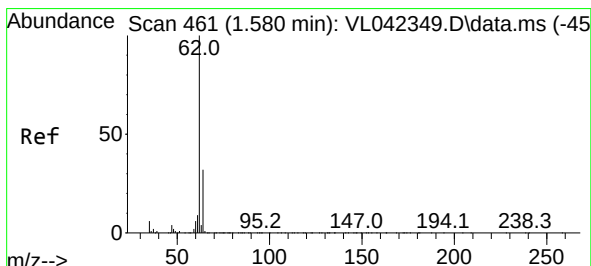
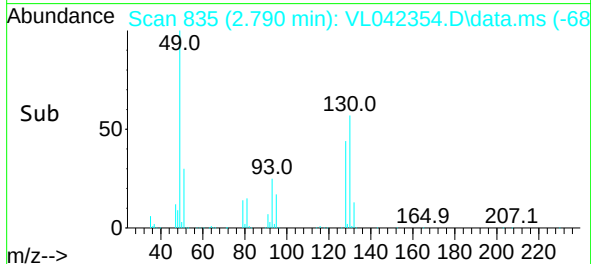
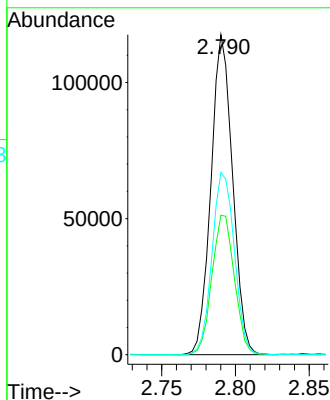
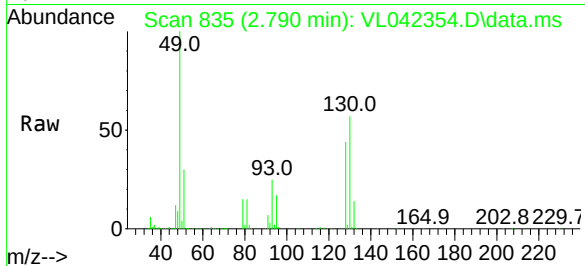
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Tgt Ion: 49 Resp: 12004
Ion Ratio Lower Upper
49 100
128 45.3 22.8 68.4
130 59.0 29.3 88.0

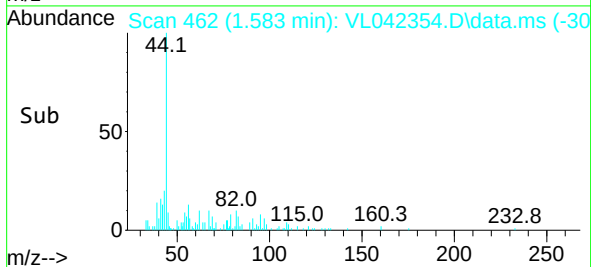
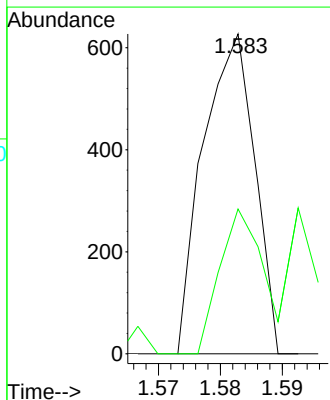
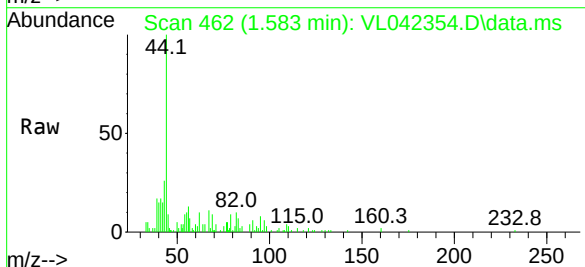
Manual Integrations
APPROVED

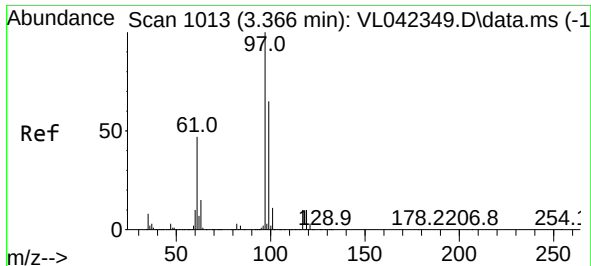
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#5
Vinyl Chloride
Concen: 0.040 ppbv
RT: 1.583 min Scan# 462
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

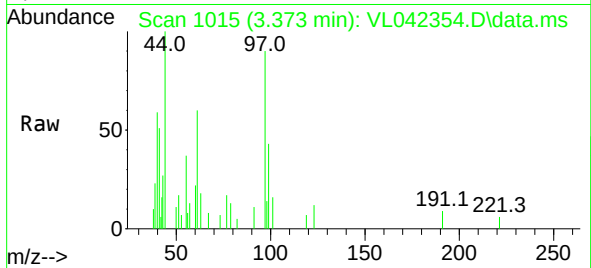
Tgt Ion: 62 Resp: 361
Ion Ratio Lower Upper
62 100
64 45.3 25.4 38.0#





#32
1,1,1-Trichloroethane
Concen: 0.038 ppbv m
RT: 3.373 min Scan# 1015
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

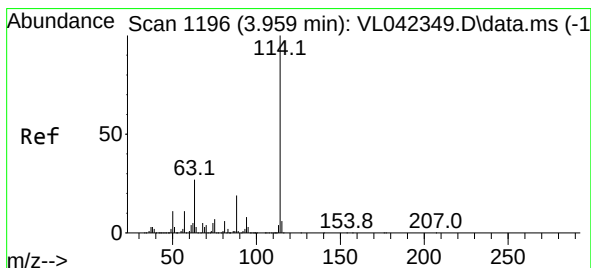
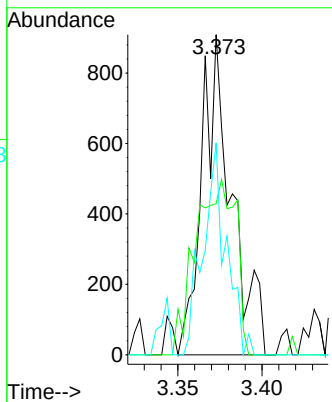
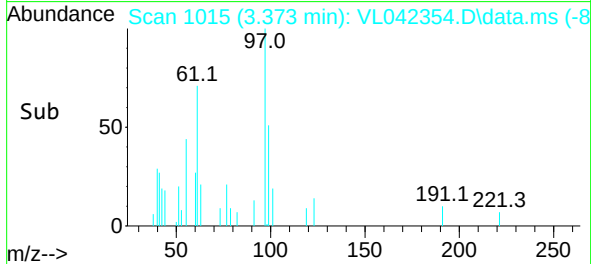
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03



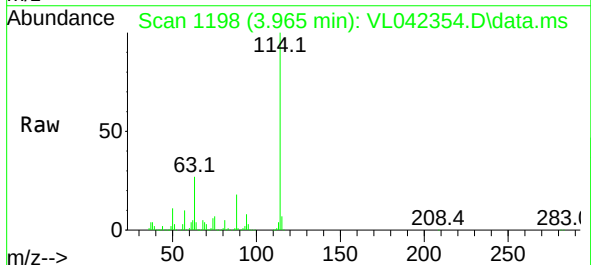
Tgt Ion: 97 Resp: 1120
Ion Ratio Lower Upper
97 100
99 74.4 51.0 76.4
61 56.9 38.8 58.2

Manual Integrations
APPROVED

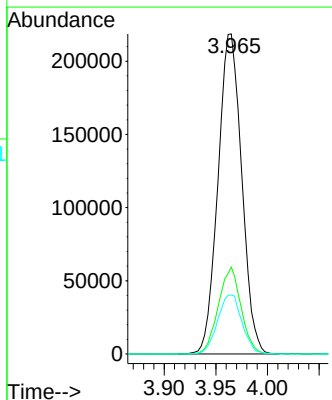
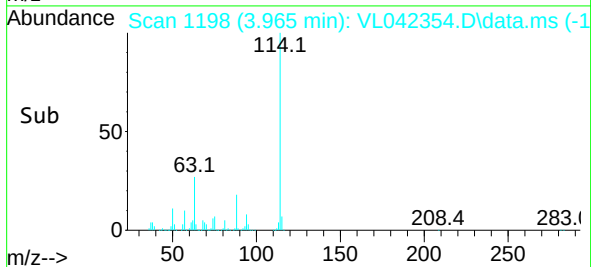
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

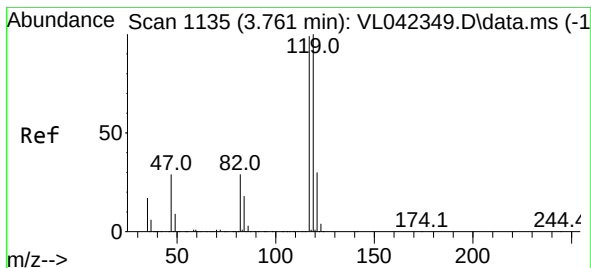


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1198
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22



Tgt Ion:114 Resp: 349264
Ion Ratio Lower Upper
114 100
63 26.0 21.8 32.6
88 19.0 15.5 23.3





#35

Carbon Tetrachloride

Concen: 0.044 ppbv m

RT: 3.768 min Scan# 1135

Delta R.T. 0.006 min

Lab File: VL042354.D

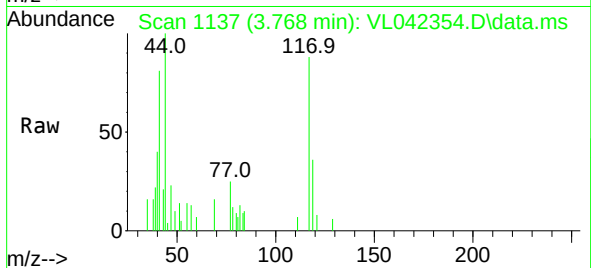
Acq: 17 Apr 2025 12:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.03



Tgt Ion:117 Resp: 138

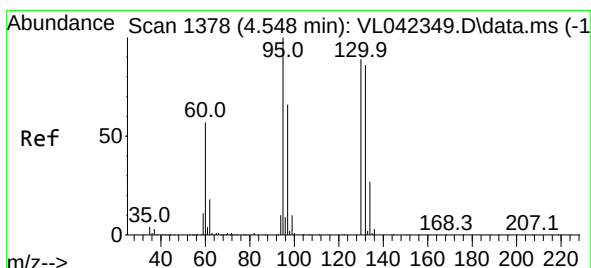
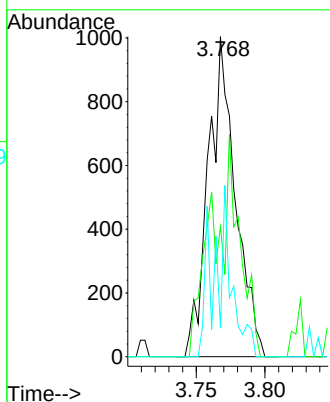
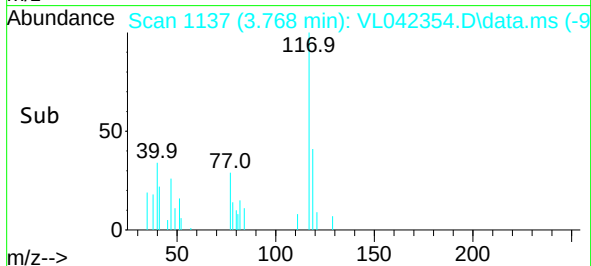
Ion	Ratio	Lower	Upper
117	100		
119	40.6	80.5	120.7
121	9.0	24.2	36.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#38

Trichloroethene

Concen: 0.041 ppbv m

RT: 4.538 min Scan# 1375

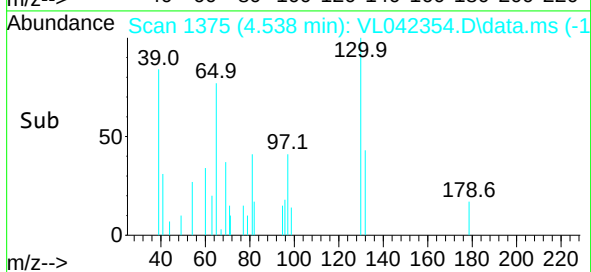
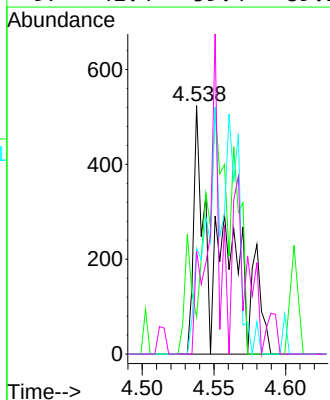
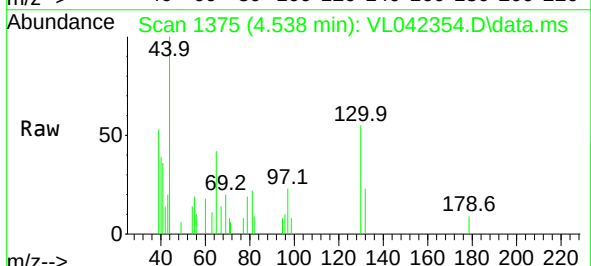
Delta R.T. -0.010 min

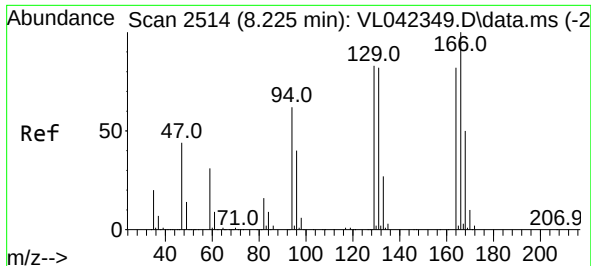
Lab File: VL042354.D

Acq: 17 Apr 2025 12:22

Tgt Ion:130 Resp: 674

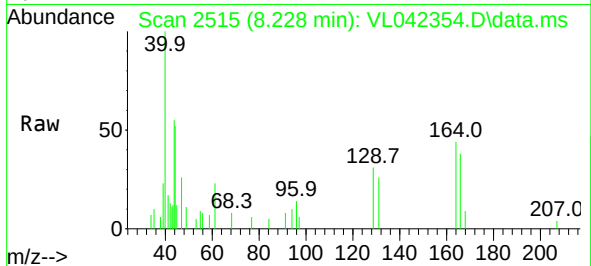
Ion	Ratio	Lower	Upper
130	100		
95	15.1	89.8	134.6
132	42.6	77.7	116.5
97	41.4	59.4	89.2





#52
Tetrachloroethene
Concen: 0.039 ppbv m
RT: 8.228 min Scan# 2514
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

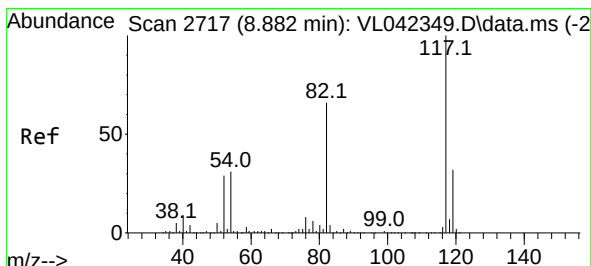
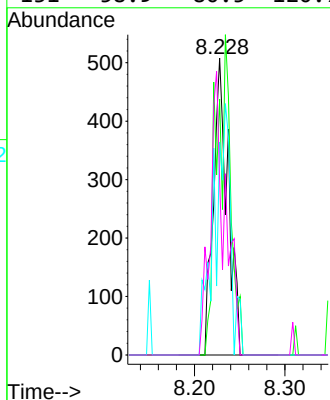
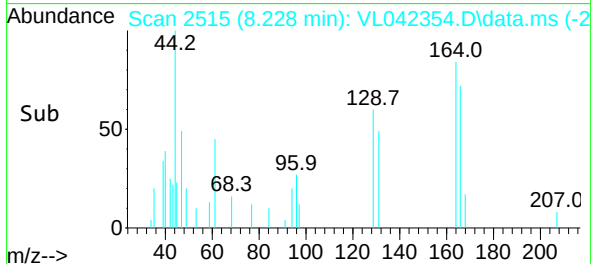
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03



Tgt Ion:164 Resp: 569
Ion Ratio Lower Upper
164 100
166 86.2 98.2 147.2
129 71.7 81.8 122.8
131 58.9 80.5 120.7

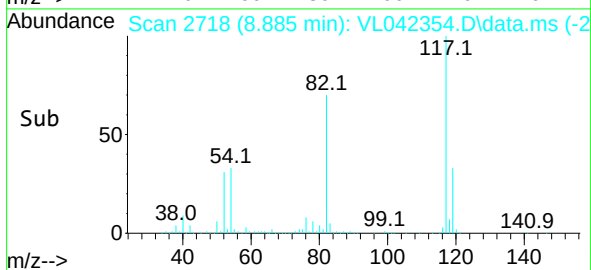
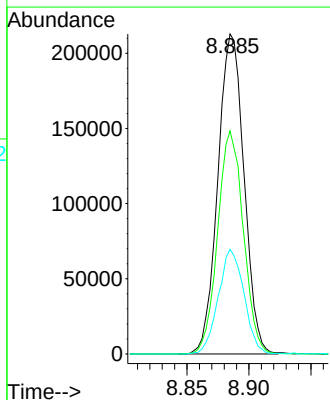
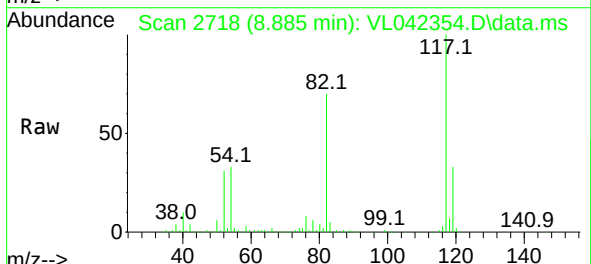
Manual Integrations
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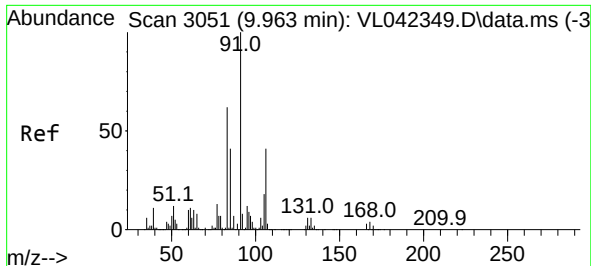
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2718
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

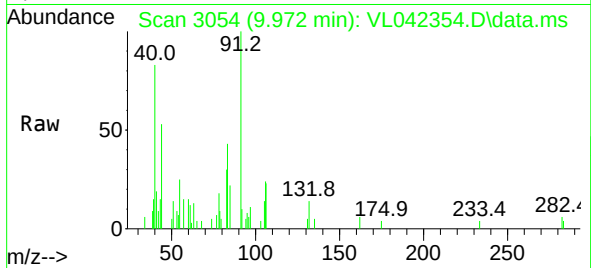
Tgt Ion:117 Resp: 312999
Ion Ratio Lower Upper
117 100
82 68.5 57.8 86.6
119 32.2 25.2 37.8





#63
1,1,2,2-Tetrachloroethane
Concen: 0.040 ppbv m
RT: 9.972 min Scan# 3051
Delta R.T. 0.010 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

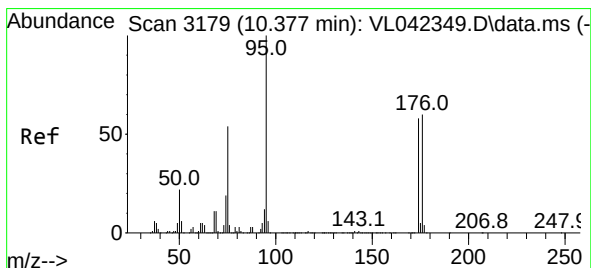
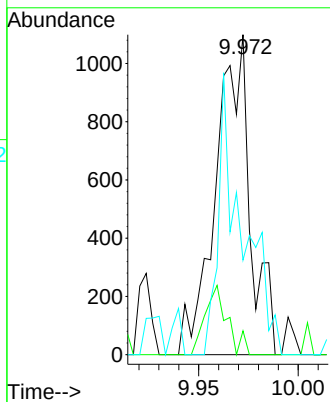
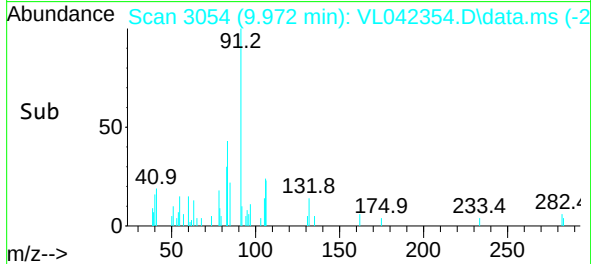
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03



Tgt Ion: 83 Resp: 132
Ion Ratio Lower Upper
83 100
131 13.9 4.5 13.7
85 61.4 32.4 97.0

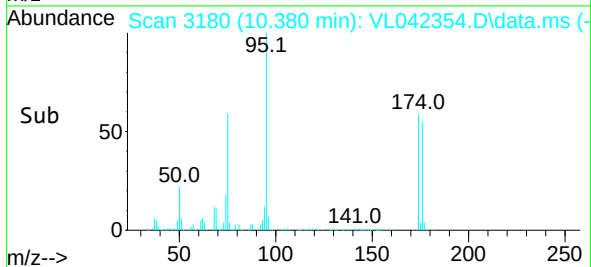
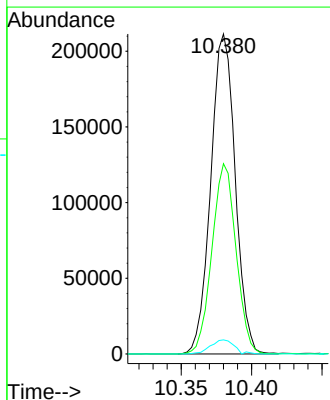
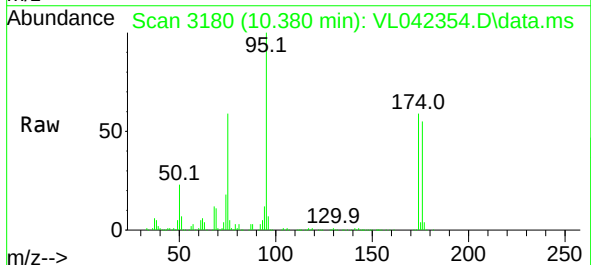
Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.962 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 95 Resp: 256230
Ion Ratio Lower Upper
95 100
174 58.6 48.5 72.7
175 4.3 3.7 5.5



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042355.D
 Acq On : 17 Apr 2025 12:54
 Operator : SY/MD
 Sample : VSTDICC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC015

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 04/18/2025
 Supervised By : Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 01:31:10 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025

QLast Update : Fri Apr 18 01:24:29 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	116071	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	332080	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	308463	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.374 95 254437 10.038 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.400%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	292784	14.277	ppbv	99
3) Chlorodifluoromethane	1.477	51	280042	14.341	ppbv	98
4) Chloromethane	1.532	50	115775	14.266	ppbv	99
5) Vinyl Chloride	1.580	62	112650	12.752	ppbv	100
6) Bromomethane	1.667	94	52805	13.800	ppbv	88
7) Chloroethane	1.703	64	44347	13.881	ppbv	98
8) Dichlorotetrafluoroethane	1.554	85	255029	14.484	ppbv	98
9) Propene	1.483	41	123102	13.842	ppbv	95
10) Heptane	4.979	43	336134	14.047	ppbv	100
11) Trichlorofluoromethane	1.875	101	278059	14.258	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.137	101	230366	14.447	ppbv	99
13) Ethanol	1.719	45	6324	8.702	ppbv	76
14) Bromoethene	1.781	108	84851	14.117	ppbv	99
15) Acetone	1.833	43	229086	12.056	ppbv	99
16) 1,3-Butadiene	1.609	39	117997	13.224	ppbv	96
17) tert-Butyl alcohol	2.040	59	320605	13.615	ppbv	99
18) 1,1-Dichloroethene	2.033	96	107666	14.045	ppbv	99
19) Isopropyl Alcohol	1.884	45	139004	13.169	ppbv	94
20) Methylene Chloride	2.059	84	91093	12.241	ppbv	90
21) Allyl Chloride	2.095	41	187995	14.329	ppbv	99
22) trans-1,2-Dichloroethene	2.341	96	118492	13.970	ppbv	94
23) Vinyl Acetate	2.460	43	106135	13.799	ppbv #	98
24) 1,1-Dichloroethane	2.409	63	235466	14.615	ppbv	99
25) Ethyl Acetate	2.836	43	663644	14.166	ppbv	100
26) Hexane	2.826	57	260975	13.765	ppbv	97
27) Carbon Disulfide	2.150	76	299098	14.734	ppbv	97
28) Methyl tert-Butyl Ether	2.438	73	174855	14.076	ppbv	95
29) Chloroform	2.849	83	385686	14.393	ppbv	99
30) Cyclohexane	3.855	84	217375	14.238	ppbv	98
31) cis-1,2-Dichloroethene	2.719	61	264972	14.700	ppbv	98
32) 1,1,1-Trichloroethane	3.367	97	412537	14.357	ppbv	99
34) 2-Butanone	2.558	43	367315	13.986	ppbv	100
35) Carbon Tetrachloride	3.762	117	409916	13.639	ppbv	94
36) Benzene	3.655	78	522156	14.578	ppbv	97
37) 1,2-Dichloroethane	3.218	62	319517	14.863	ppbv	100
38) Trichloroethene	4.548	130	208508	13.278	ppbv	98
39) 1,2-Dichloropropane	4.312	63	189697	14.201	ppbv	97
40) 1,4-Dioxane	4.580	88	92114	12.733	ppbv #	95
41) Tetrahydrofuran	3.053	42	214949	14.166	ppbv	98
42) Bromodichloromethane	4.490	83	442735	14.798	ppbv	95
43) Methyl Methacrylate	4.878	69	219757	13.670	ppbv	95
44) 2,2,4-Trimethylpentane	4.642	57	893529	14.425	ppbv	99
45) t-1,3-Dichloropropene	6.412	75	244470	14.810	ppbv	94

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042355.D
 Acq On : 17 Apr 2025 12:54
 Operator : SY/MD
 Sample : VSTDIC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 01:31:10 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025

QLast Update : Fri Apr 18 01:24:29 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.600	75	300145	14.878	ppbv	90
47) 1,1,2-Trichloroethane	6.581	97	198874	14.615	ppbv	98
48) Dibromochloromethane	7.390	129	362887	15.105	ppbv	98
49) Bromoform	9.484	173	312282	14.865	ppbv	99
50) 4-Methyl-2-Pentanone	5.749	43	563658	12.889	ppbv	99
51) 2-Hexanone	7.435	43	467001	11.834	ppbv #	98
52) Tetrachloroethene	8.225	164	180631	13.046	ppbv	97
53) Toluene	6.933	91	619420	14.411	ppbv	99
54) 1,2-Dibromoethane	7.652	107	280071	14.442	ppbv	92
56) 1,1,1,2-Tetrachloroethane	8.927	131	268626	14.389	ppbv	97
57) Chlorobenzene	8.921	112	454017	14.151	ppbv	97
58) Ethyl Benzene	9.354	91	874424	14.308	ppbv	100
59) m/p-Xylene	9.552	91	1388086m	28.109	ppbv	
60) o-Xylene	9.963	91	689246	13.902	ppbv	99
61) Styrene	9.872	104	339508	14.347	ppbv	99
62) Isopropylbenzene	10.539	105	1018968	13.999	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.963	83	412898	12.816	ppbv	100
64) n-propylbenzene	10.989	120	260812	14.255	ppbv	94
65) tert-Butylbenzene	11.533	119	899720	13.449	ppbv	93
66) Benzyl Chloride	11.617	91	96016	13.061	ppbv	96
67) sec-Butylbenzene	11.769	105	1253263	13.468	ppbv	100
69) p-Isopropyltoluene	11.928	119	1081850	13.382	ppbv	99
70) n-Butylbenzene	12.284	91	1117042	13.266	ppbv	100
71) 2-Chlorotoluene	10.902	91	806728	14.131	ppbv	100
72) 4-Ethyltoluene	11.125	105	848077	13.992	ppbv	99
73) 1,3,5-Trimethylbenzene	11.206	105	726558	13.578	ppbv	99
74) 1,2,4-Trimethylbenzene	11.539	105	785772	12.572	ppbv	97
75) 1,3-Dichlorobenzene	11.610	146	444086	13.670	ppbv	99
76) 1,4-Dichlorobenzene	11.672	146	450662	13.802	ppbv	98
77) 1,2-Dichlorobenzene	11.947	146	427372	13.529	ppbv	99
78) Hexachloro-1,3-Butadiene	13.883	225	404441	12.679	ppbv	100
79) Naphthalene	13.514	128	944085	12.632	ppbv	98
80) Naphthalene,2-methyl-	14.459	142	540339	12.686	ppbv	99
81) 1,2,4-Trichlorobenzene	13.442	180	429982	13.398	ppbv	98

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042355.D
 Acq On : 17 Apr 2025 12:54
 Operator : SY/MD
 Sample : VSTDIC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

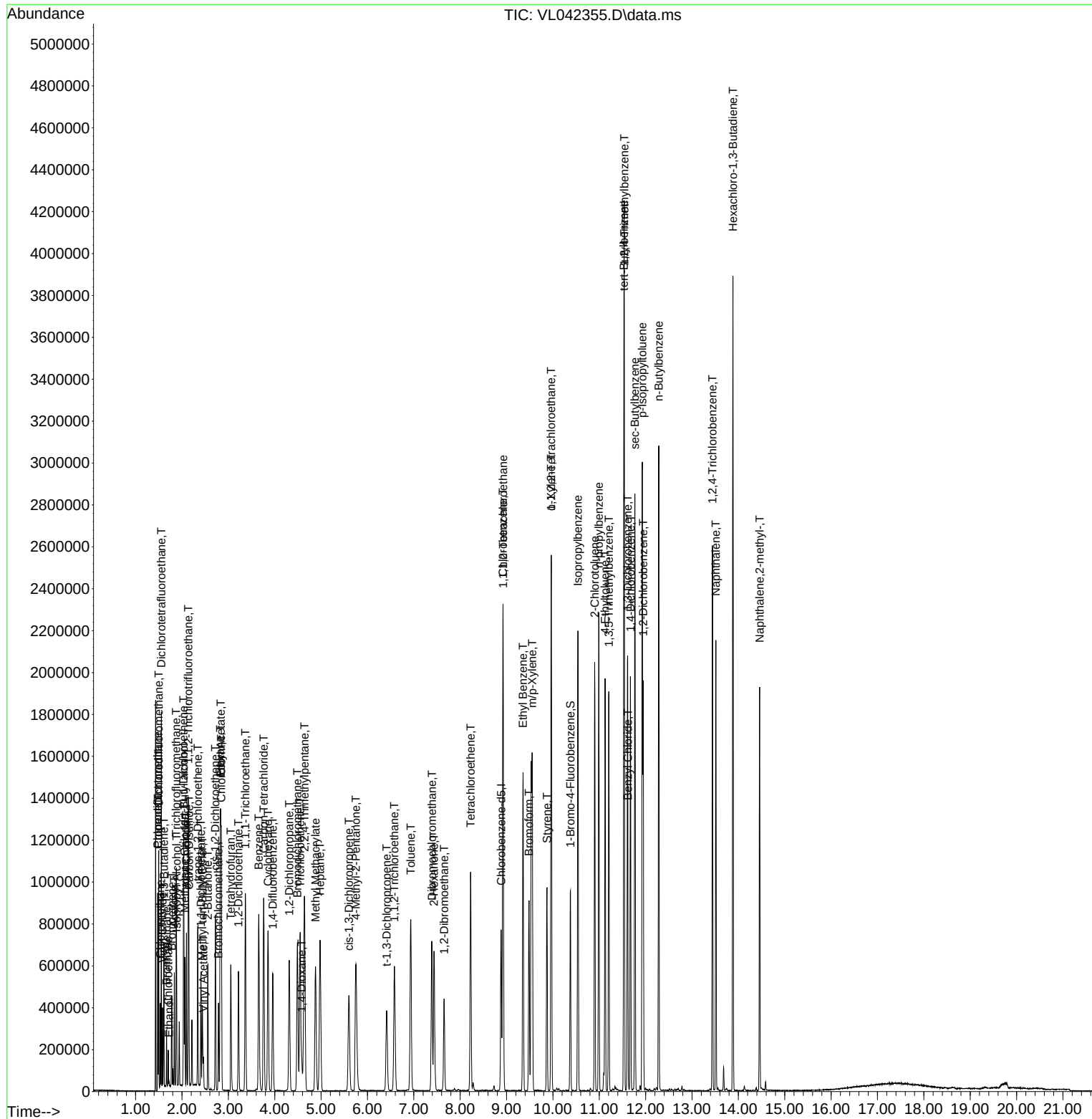
Quant Time: Apr 18 01:31:10 2025

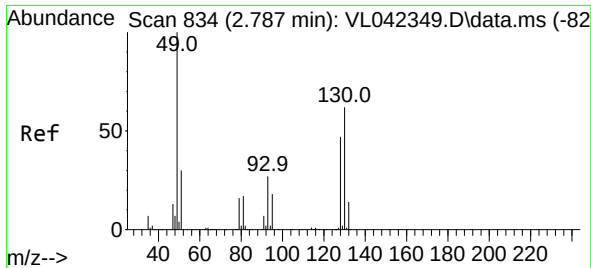
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug

QLast Update : Fri Apr 18 01:24:29 2025

Response via : Initial Calibration





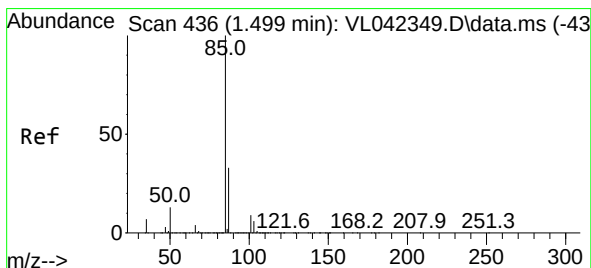
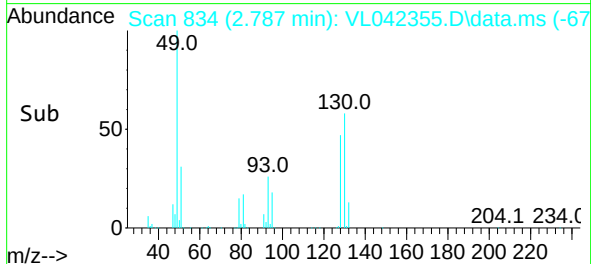
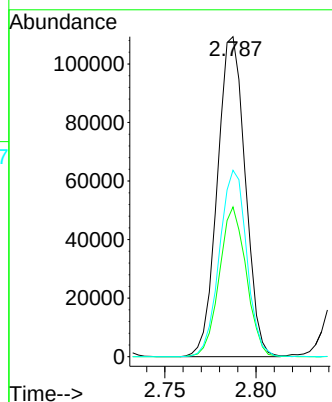
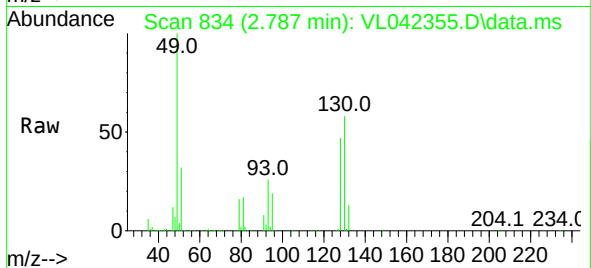
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 834
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 49 Resp: 11607
Ion Ratio Lower Upper
49 100
128 45.1 22.8 68.4
130 57.1 29.3 88.0

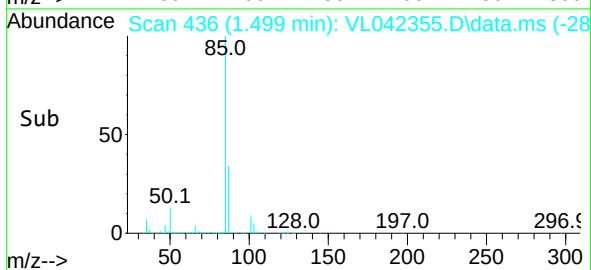
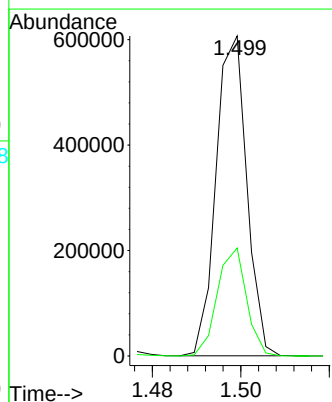
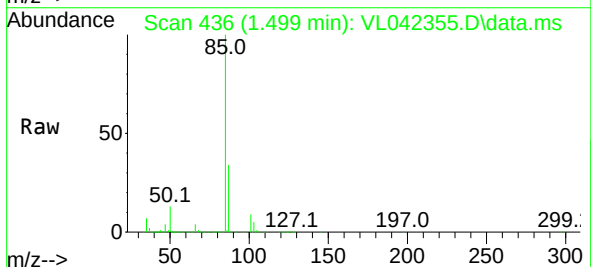
Manual Integrations
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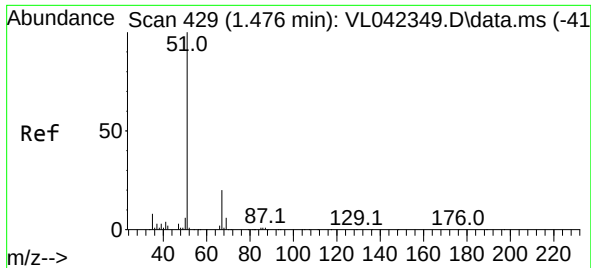
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#2
Dichlorodifluoromethane
Concen: 14.277 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

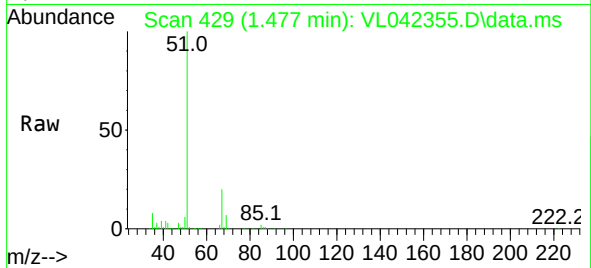
Tgt Ion: 85 Resp: 292784
Ion Ratio Lower Upper
85 100
87 33.8 26.6 39.8





#3
Chlorodifluoromethane
Concen: 14.341 ppbv
RT: 1.477 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

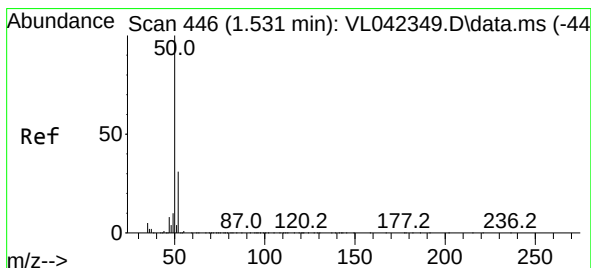
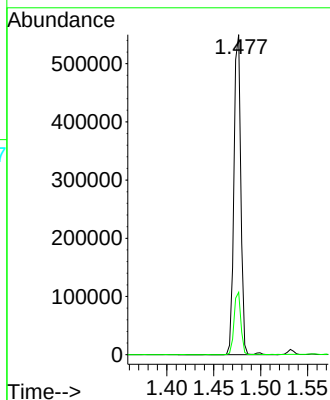
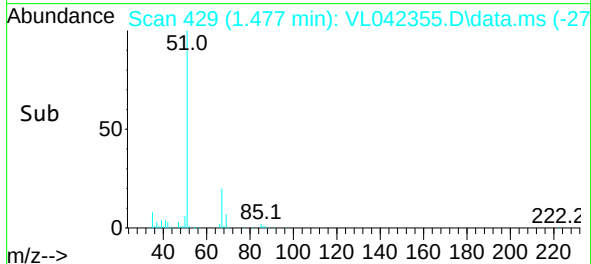
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



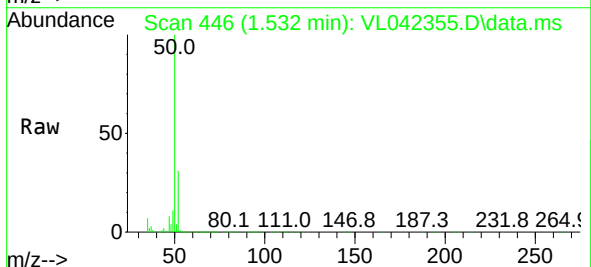
Tgt Ion: 51 Resp: 28004
Ion Ratio Lower Upper
51 100
67 19.5 16.2 24.4

Manual Integrations
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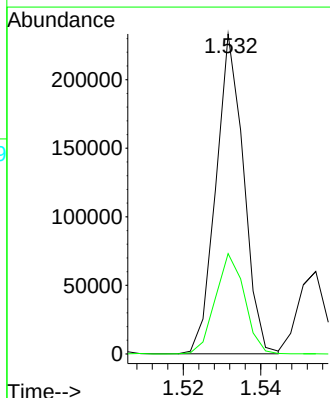
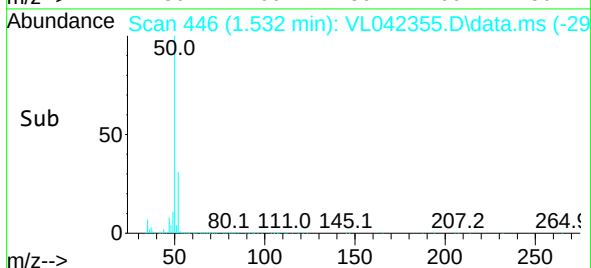
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

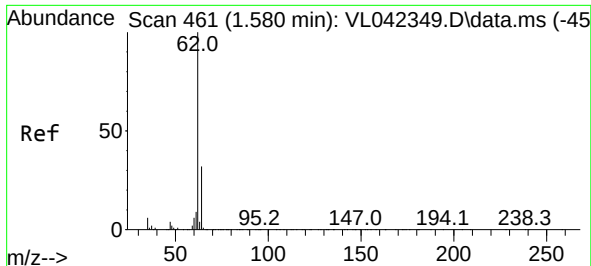


#4
Chloromethane
Concen: 14.266 ppbv
RT: 1.532 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54



Tgt Ion: 50 Resp: 115775
Ion Ratio Lower Upper
50 100
52 31.3 24.7 37.1





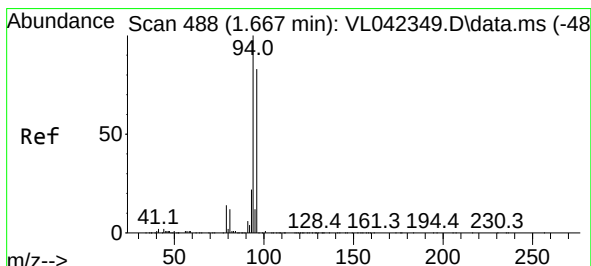
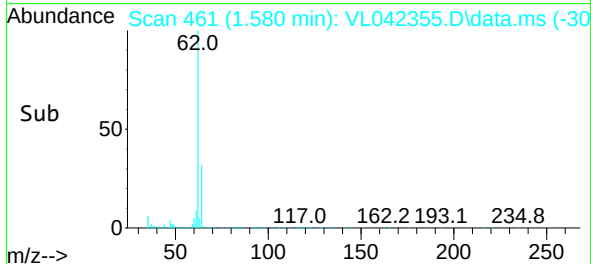
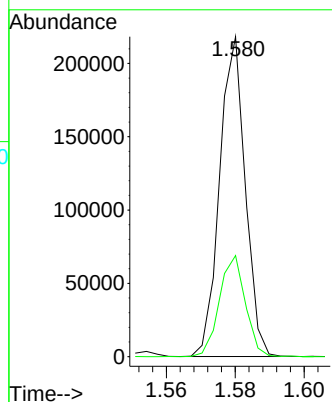
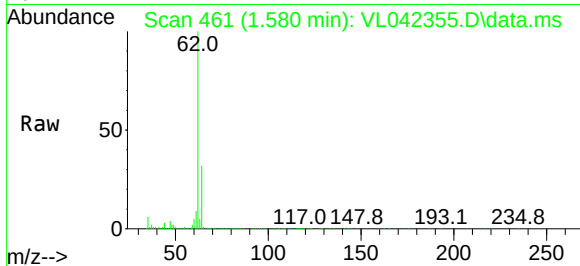
#5
 Vinyl Chloride
 Concen: 12.752 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. 0.000 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54

Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC015

Tgt Ion: 62 Resp: 112650
 Ion Ratio Lower Upper
 62 100
 64 31.6 25.4 38.0

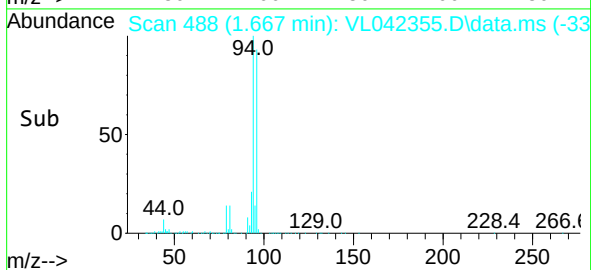
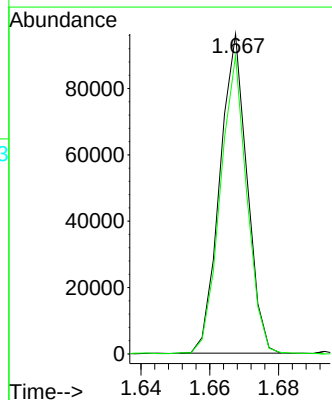
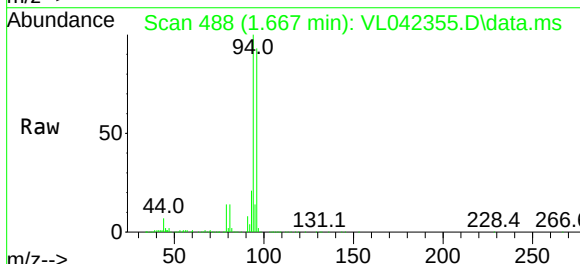
Manual Integrations
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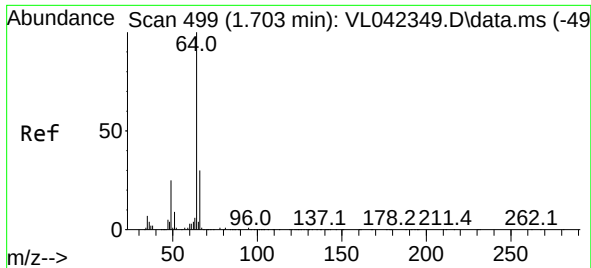
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#6
 Bromomethane
 Concen: 13.800 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. 0.000 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54

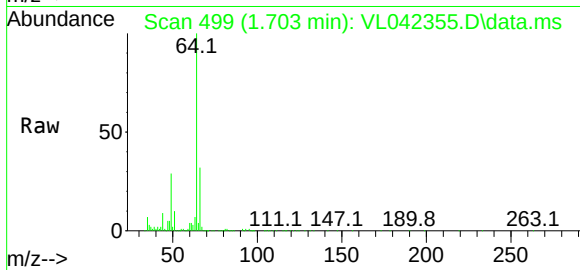
Tgt Ion: 94 Resp: 52805
 Ion Ratio Lower Upper
 94 100
 96 93.1 66.2 99.2





#7
Chloroethane
Concen: 13.881 ppbv
RT: 1.703 min Scan# 499
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

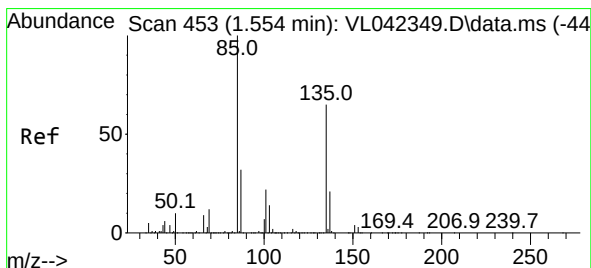
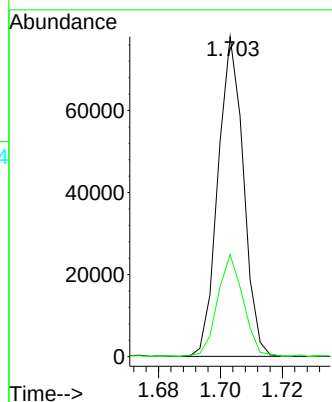
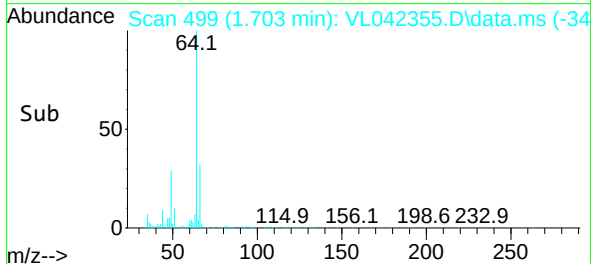
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



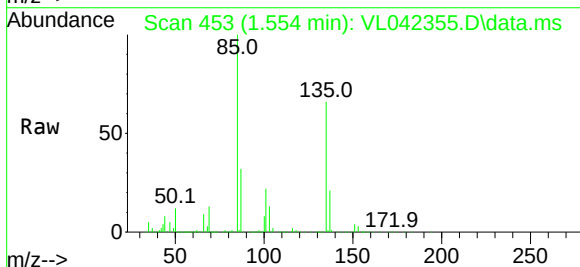
Tgt Ion: 64 Resp: 4434
Ion Ratio Lower Upper
64 100
66 31.9 24.6 37.0

Manual Integrations
APPROVED

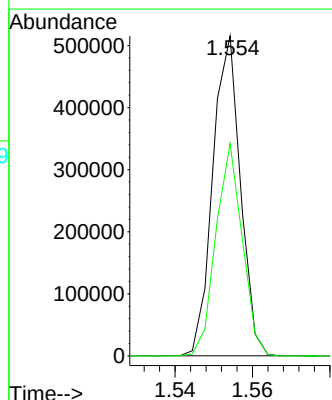
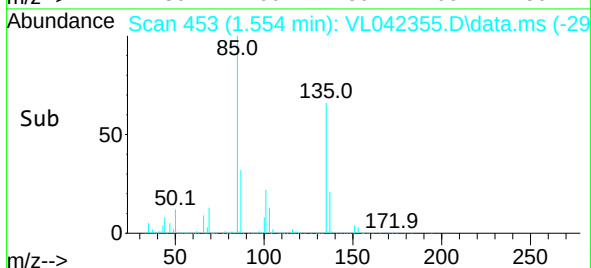
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

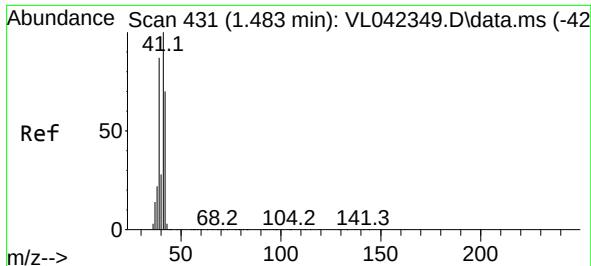


#8
Dichlorotetrafluoroethane
Concen: 14.484 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54



Tgt Ion: 85 Resp: 255029
Ion Ratio Lower Upper
85 100
135 63.6 52.2 78.2





#9

Propene

Concen: 13.842 ppbv

RT: 1.483 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC015

Tgt Ion: 41 Resp: 12310

Ion Ratio Lower Upper

41 100

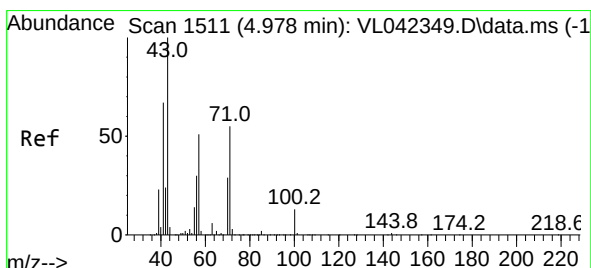
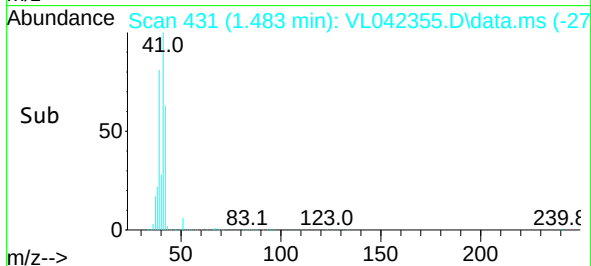
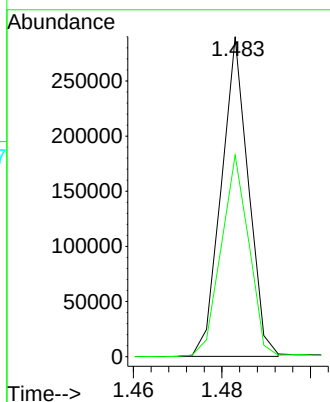
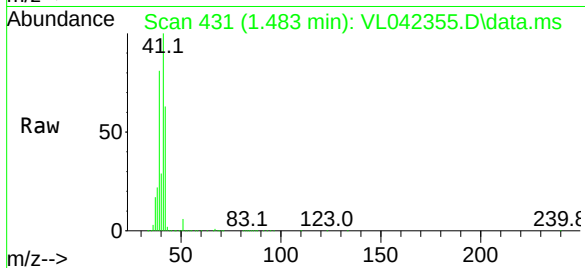
42 66.0 56.2 84.4

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#10

Heptane

Concen: 14.047 ppbv

RT: 4.979 min Scan# 1511

Delta R.T. 0.000 min

Lab File: VL042355.D

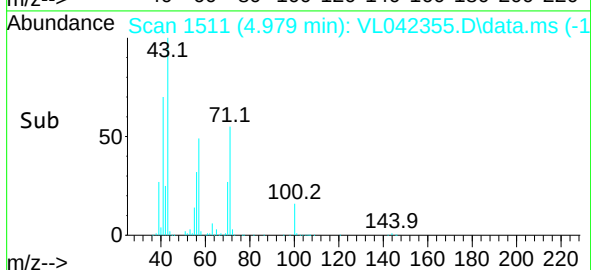
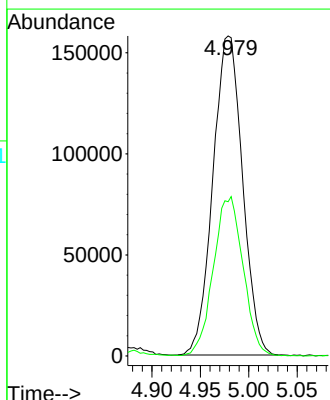
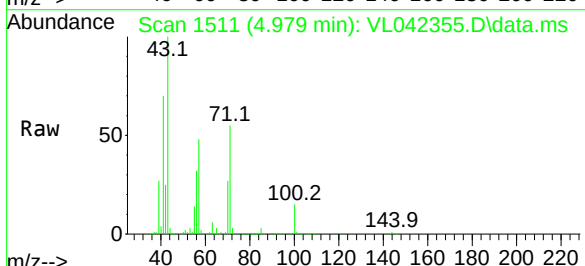
Acq: 17 Apr 2025 12:54

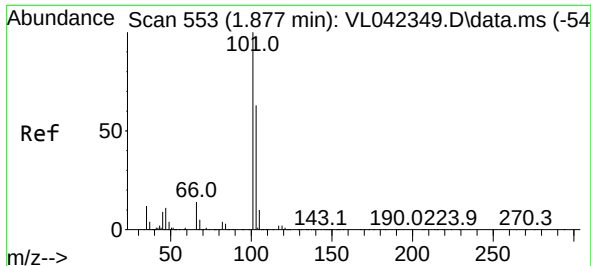
Tgt Ion: 43 Resp: 336134

Ion Ratio Lower Upper

43 100

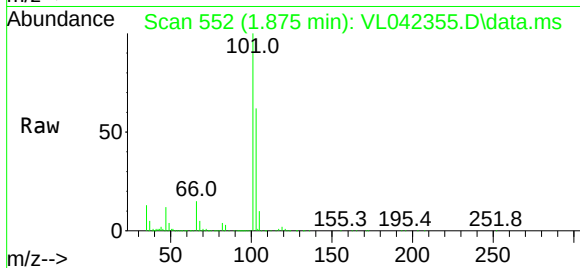
57 50.0 39.9 59.9





#11
Trichlorofluoromethane
Concen: 14.258 ppbv
RT: 1.875 min Scan# 511
Delta R.T. -0.003 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

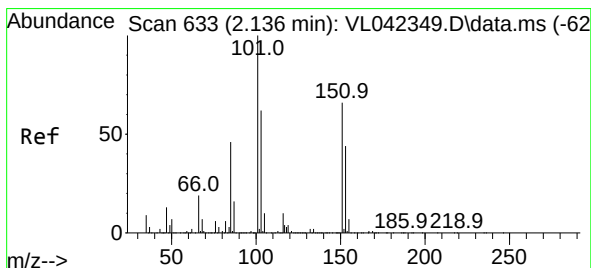
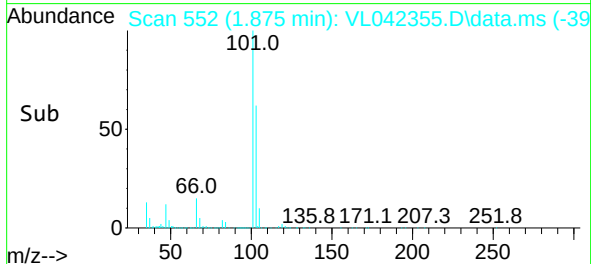
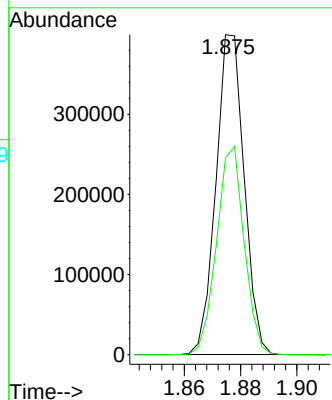
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion:101 Resp: 278059
Ion Ratio Lower Upper
101 100
103 61.6 50.1 75.1

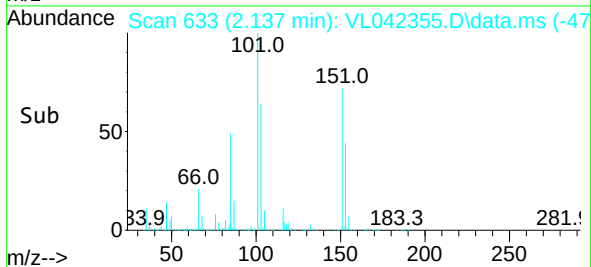
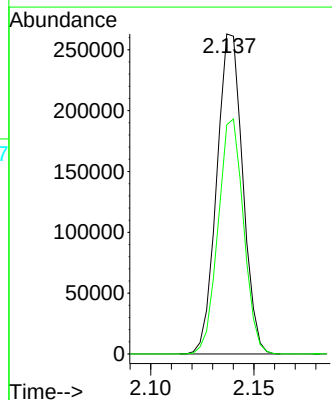
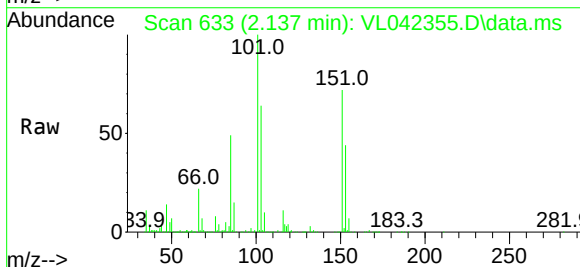
Manual Integrations
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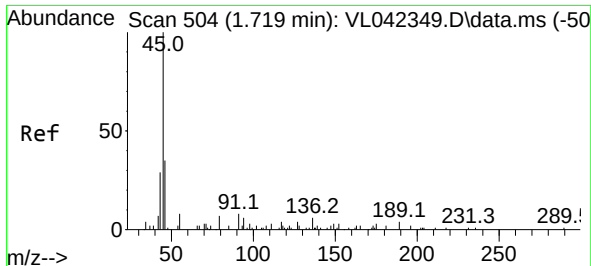
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#12
1,1,2-Trichlorotrifluoroethane
Concen: 14.447 ppbv
RT: 2.137 min Scan# 633
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

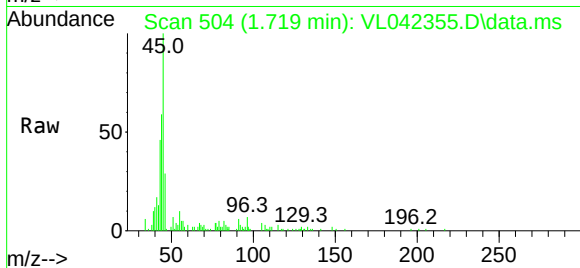
Tgt Ion:101 Resp: 230366
Ion Ratio Lower Upper
101 100
151 71.8 57.0 85.6





#13
Ethanol
Concen: 8.702 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

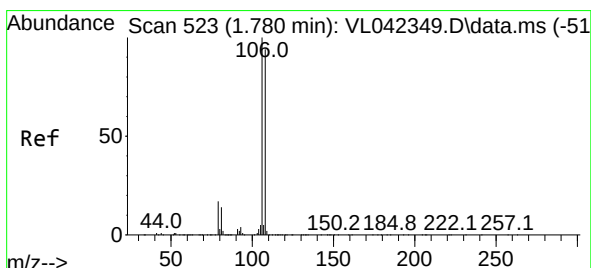
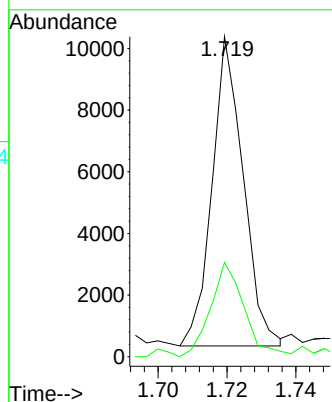
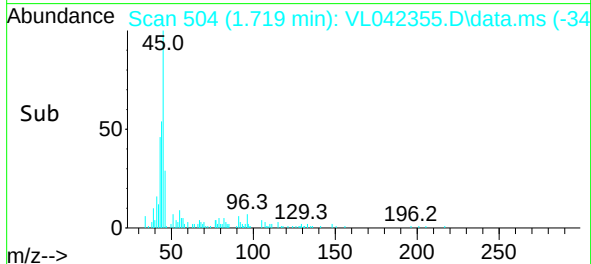
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



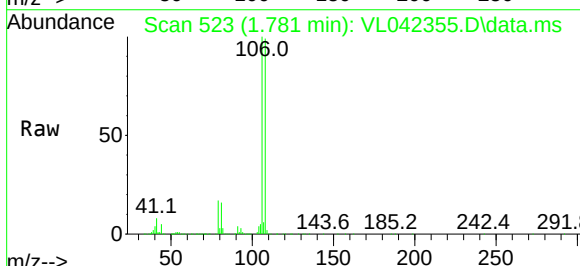
Tgt Ion: 45 Resp: 6324
Ion Ratio Lower Upper
45 100
46 37.6 21.9 87.7

Manual Integrations
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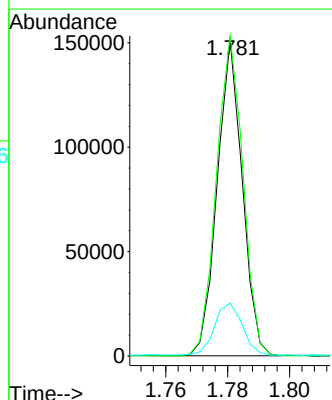
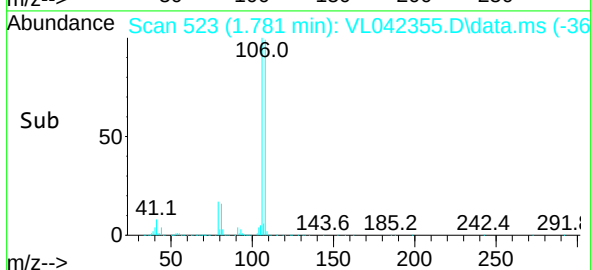
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

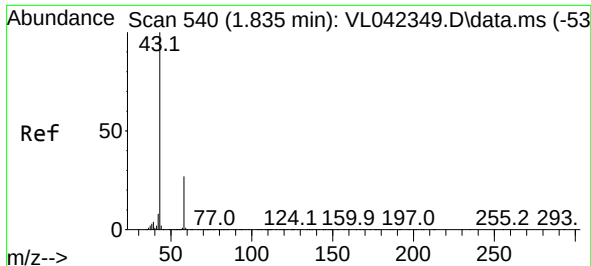


#14
Bromoethene
Concen: 14.117 ppbv
RT: 1.781 min Scan# 523
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54



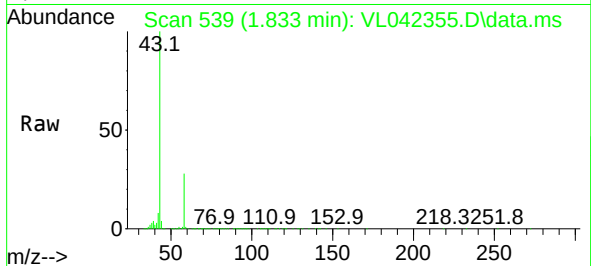
Tgt Ion:108 Resp: 84851
Ion Ratio Lower Upper
108 100
106 107.5 85.9 128.9
79 19.3 13.9 20.9





#15
Acetone
Concen: 12.056 ppbv
RT: 1.833 min Scan# 51
Delta R.T. -0.003 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

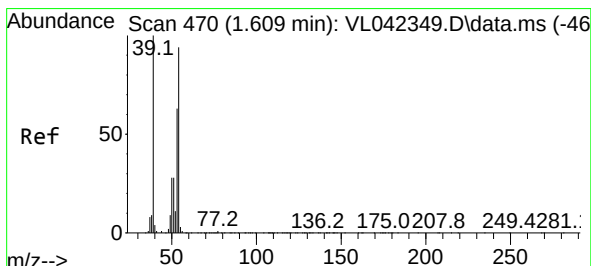
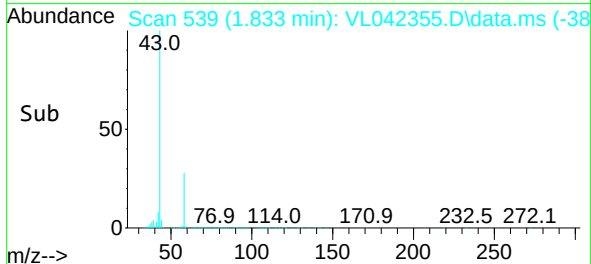
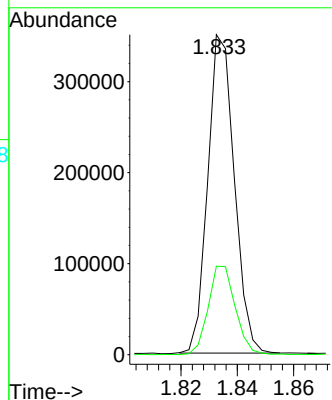
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion: 43 Resp: 229080
Ion Ratio Lower Upper
43 100
58 28.4 22.4 33.6

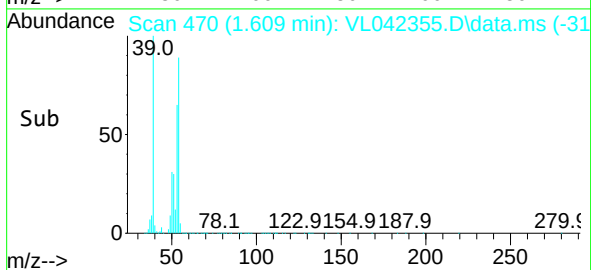
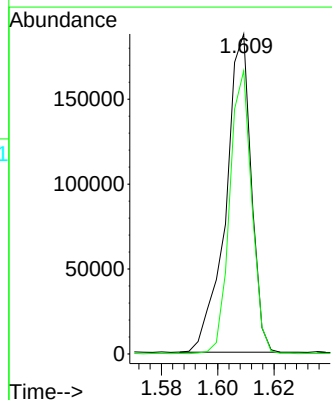
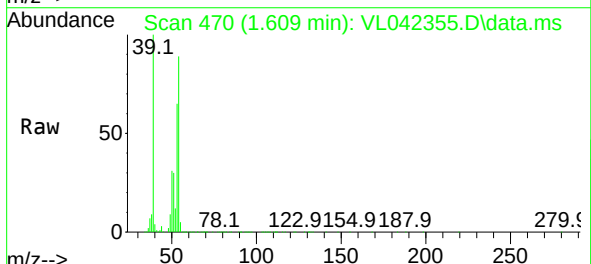
Manual Integrations
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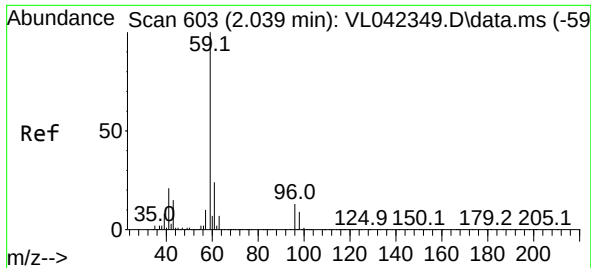
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#16
1,3-Butadiene
Concen: 13.224 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

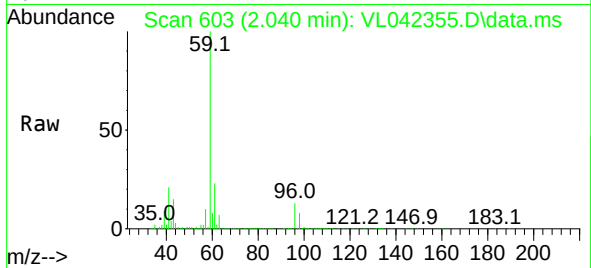
Tgt Ion: 39 Resp: 117997
Ion Ratio Lower Upper
39 100
54 77.2 64.9 97.3





#17
tert-Butyl alcohol
Concen: 13.615 ppbv
RT: 2.040 min Scan# 603
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

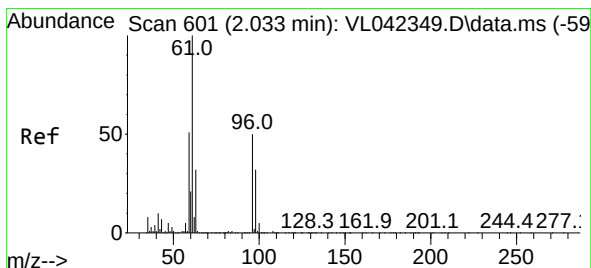
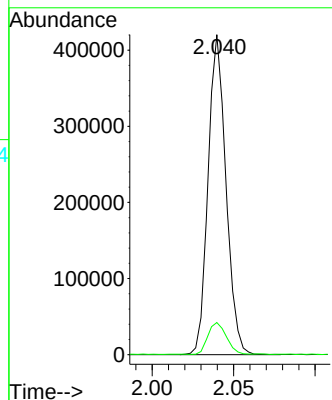
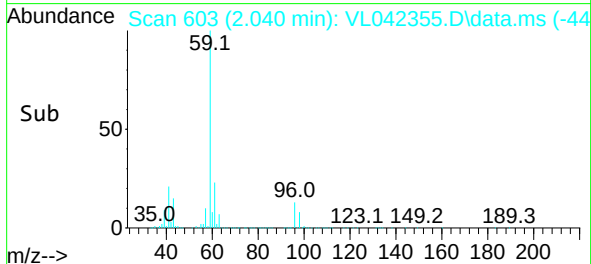
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ClientSampleId :
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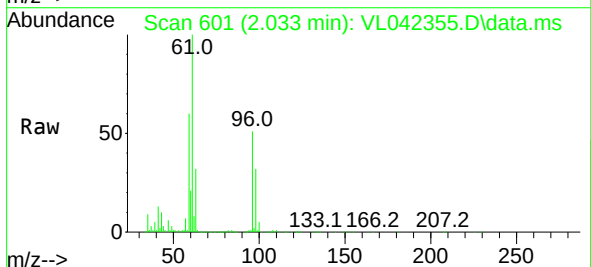
Tgt Ion: 59 Resp: 320609
Ion Ratio Lower Upper
59 100
57 10.6 8.7 13.1

Manual Integrations
APPROVED

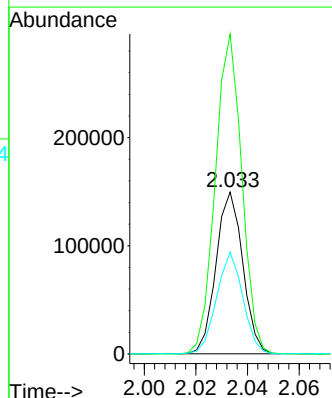
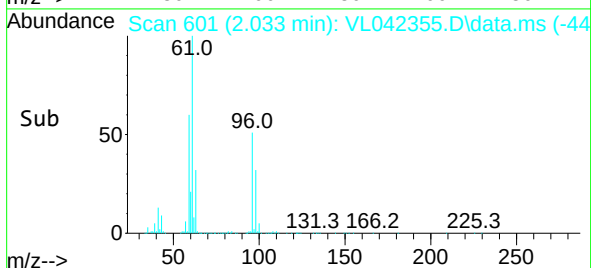
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

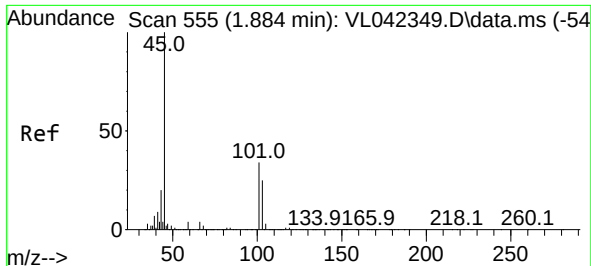


#18
1,1-Dichloroethene
Concen: 14.045 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54



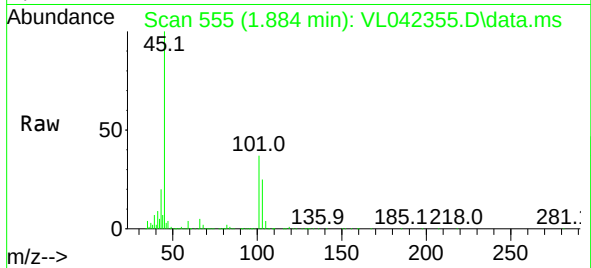
Tgt Ion: 96 Resp: 107666
Ion Ratio Lower Upper
96 100
61 197.8 160.2 240.2
98 62.9 51.0 76.4





#19
Isopropyl Alcohol
Concen: 13.169 ppbv
RT: 1.884 min Scan# 51
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

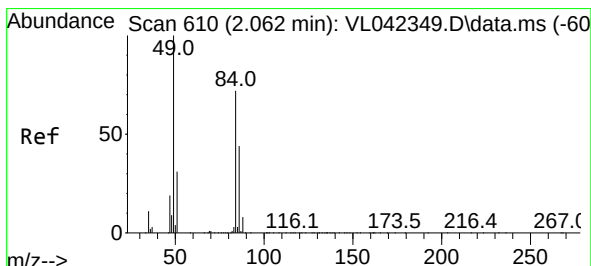
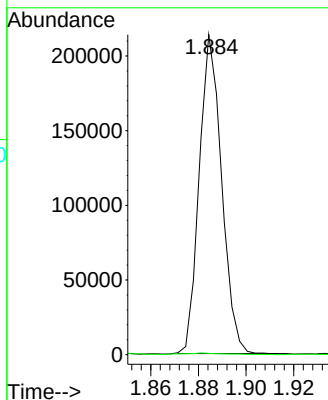
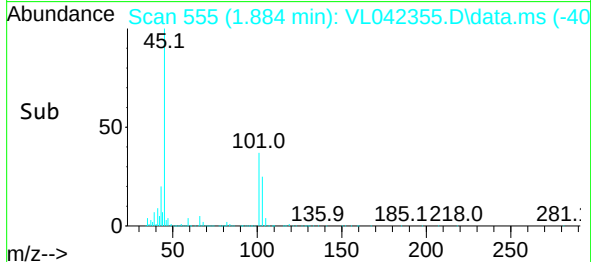
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



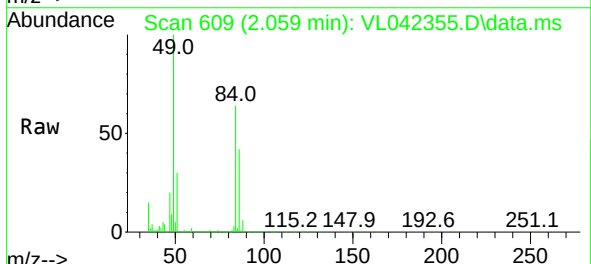
Tgt Ion: 45 Resp: 139004
Ion Ratio Lower Upper
45 100
58 46.9 34.5 51.7

Manual Integrations
APPROVED

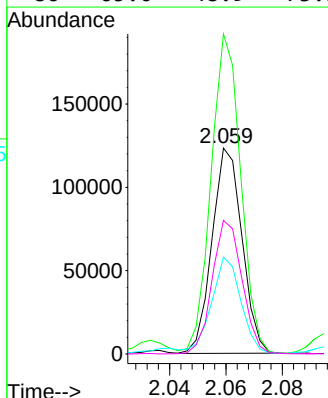
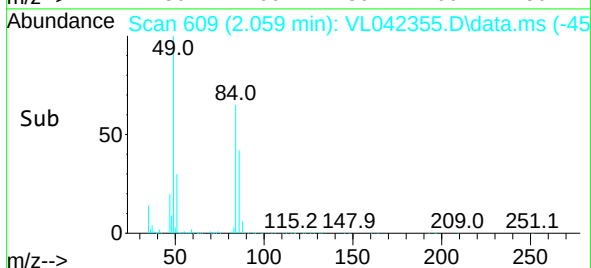
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

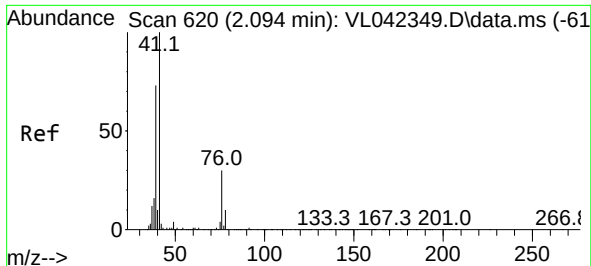


#20
Methylene Chloride
Concen: 12.241 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.003 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54



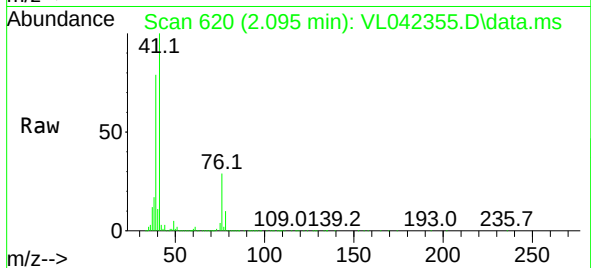
Tgt Ion: 84 Resp: 91093
Ion Ratio Lower Upper
84 100
49 155.7 111.6 167.4
51 46.8 35.1 52.7
86 65.0 48.9 73.3





#21
 Allyl Chloride
 Concen: 14.329 ppbv
 RT: 2.095 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54

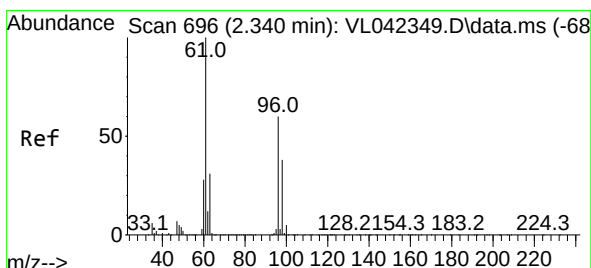
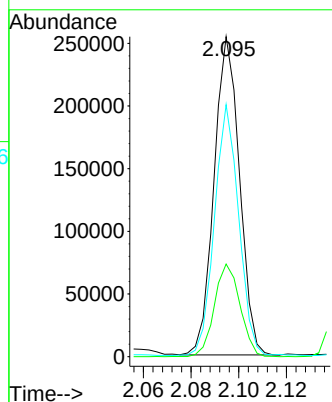
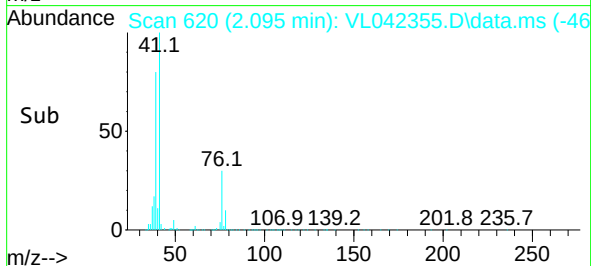
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



Tgt Ion: 41 Resp: 18799
 Ion Ratio Lower Upper
 41 100
 76 29.3 24.8 37.2
 39 75.2 60.6 90.8

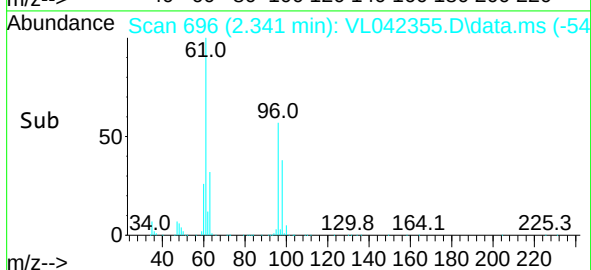
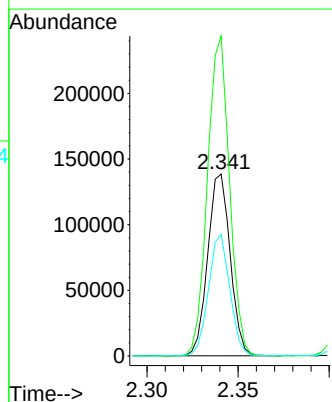
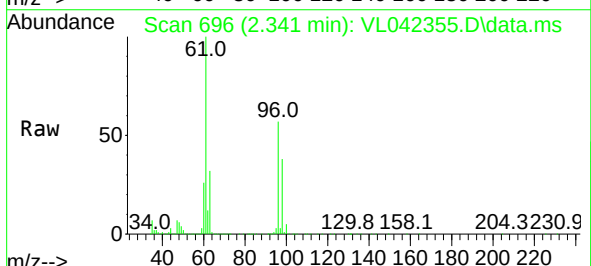
Manual Integrations
 APPROVED

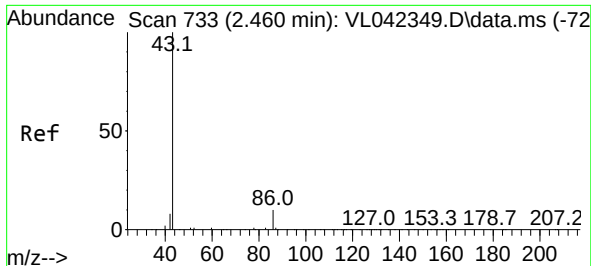
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#22
 trans-1,2-Dichloroethene
 Concen: 13.970 ppbv
 RT: 2.341 min Scan# 696
 Delta R.T. 0.000 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54

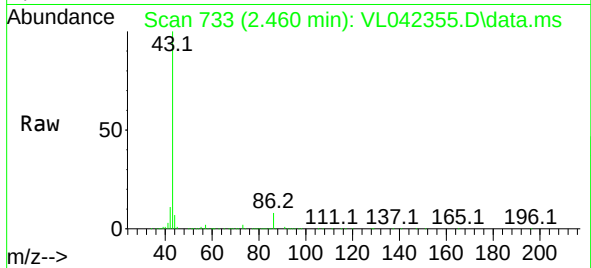
Tgt Ion: 96 Resp: 118492
 Ion Ratio Lower Upper
 96 100
 61 176.1 133.7 200.5
 98 66.8 50.3 75.5





#23
 Vinyl Acetate
 Concen: 13.799 ppbv
 RT: 2.460 min Scan# 717
 Delta R.T. 0.000 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54

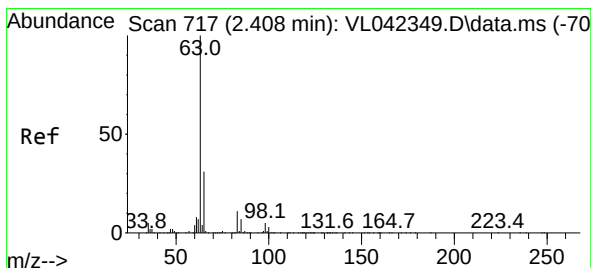
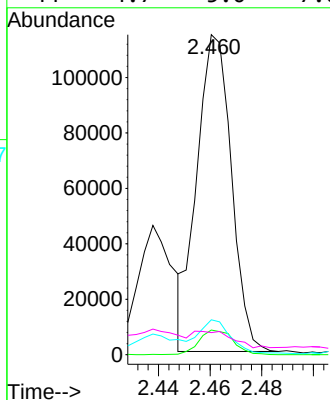
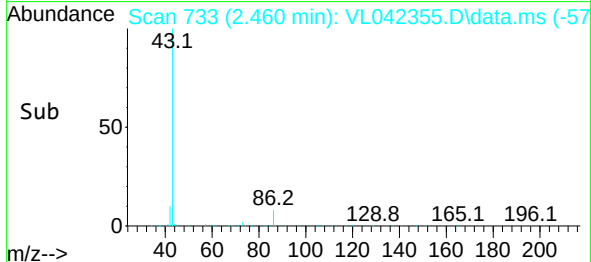
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



Tgt Ion: 43 Resp: 106135
 Ion Ratio Lower Upper
 43 100
 86 7.8 6.5 9.7
 42 10.4 7.8 11.8
 44 4.7 5.0 7.6#

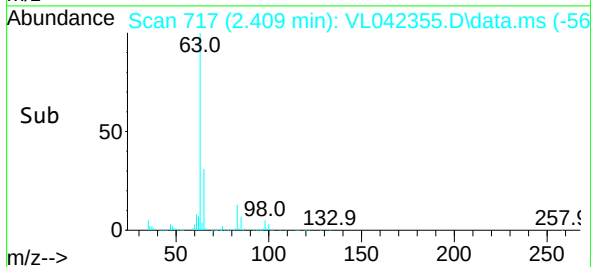
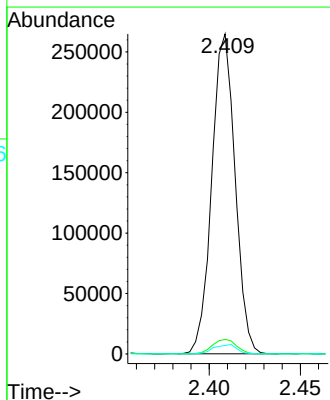
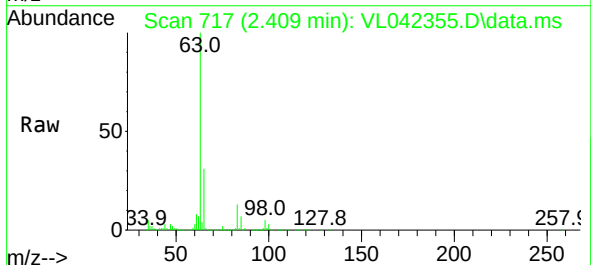
Manual Integrations
 APPROVED

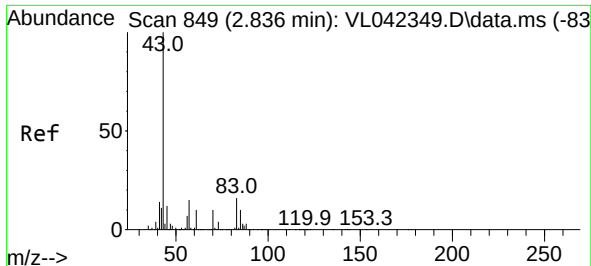
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#24
 1,1-Dichloroethane
 Concen: 14.615 ppbv
 RT: 2.409 min Scan# 717
 Delta R.T. 0.000 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54

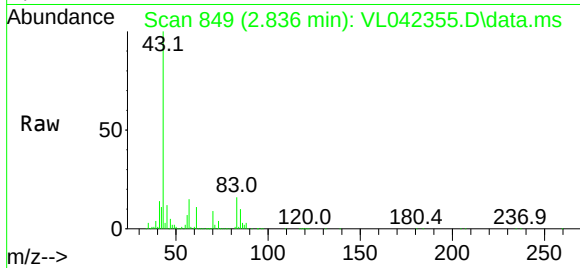
Tgt Ion: 63 Resp: 235466
 Ion Ratio Lower Upper
 63 100
 98 4.5 2.3 6.8
 100 2.6 1.6 4.8





#25
Ethyl Acetate
Concen: 14.166 ppbv
RT: 2.836 min Scan# 849
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

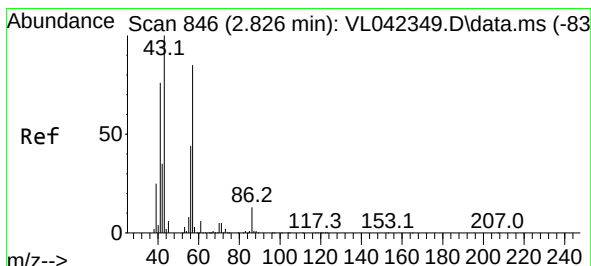
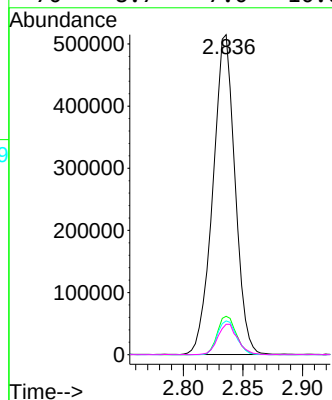
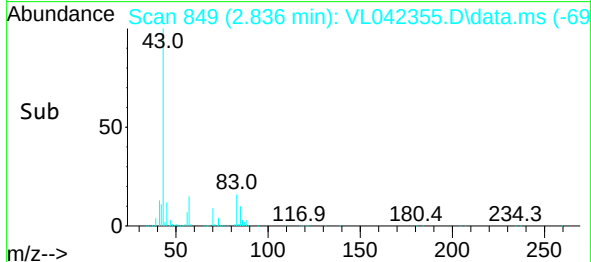
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



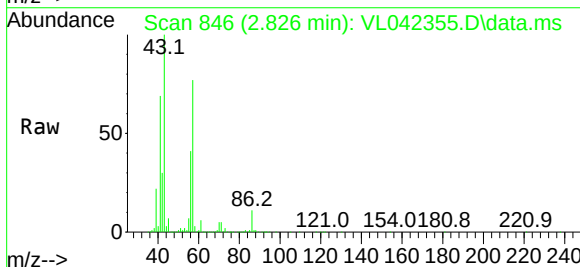
Tgt Ion: 43 Resp: 663644
Ion Ratio Lower Upper
43 100
45 10.4 8.3 12.5
61 9.2 7.3 10.9
70 8.7 7.0 10.6

Manual Integrations
APPROVED

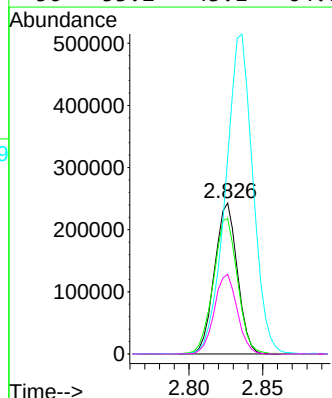
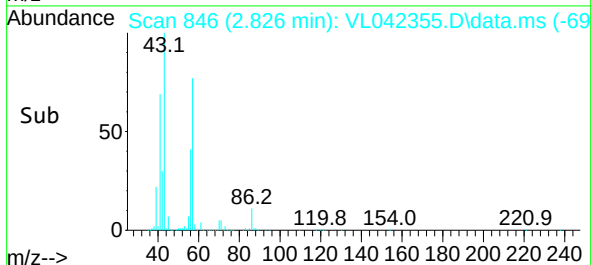
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

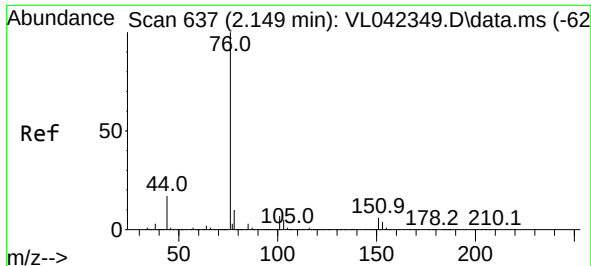


#26
Hexane
Concen: 13.765 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54



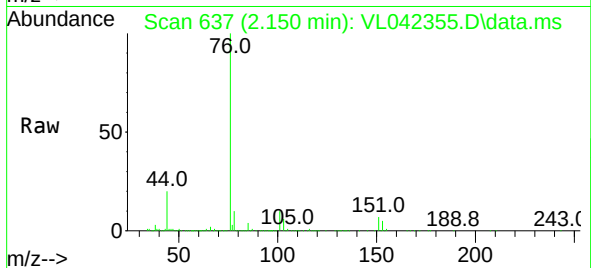
Tgt Ion: 57 Resp: 260975
Ion Ratio Lower Upper
57 100
41 95.3 77.9 116.9
43 254.5 208.4 312.6
56 53.2 43.1 64.7





#27
Carbon Disulfide
Concen: 14.734 ppbv
RT: 2.150 min Scan# 61
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

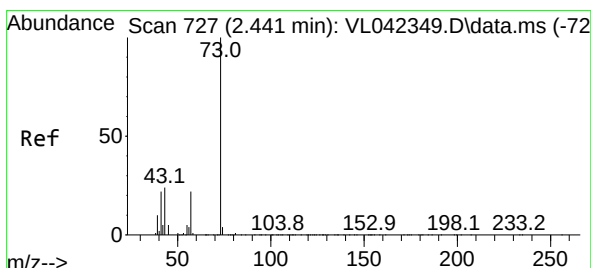
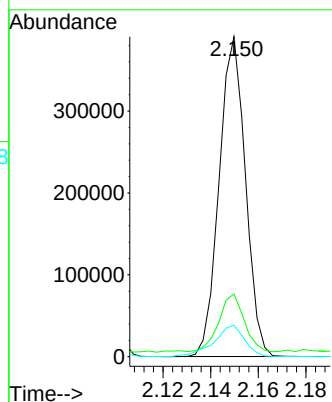
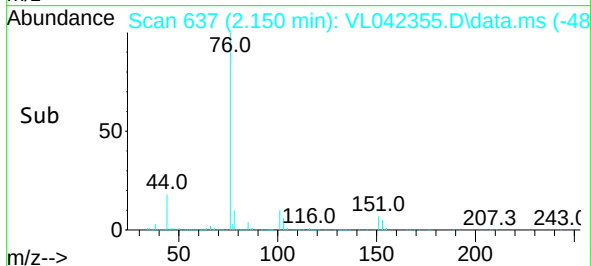
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



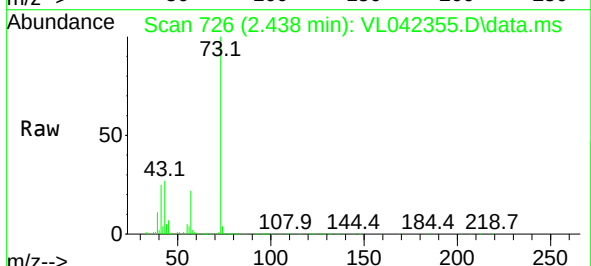
Tgt Ion: 76 Resp: 299098
Ion Ratio Lower Upper
76 100
44 17.3 15.5 23.3
78 11.4 9.3 13.9

Manual Integrations
APPROVED

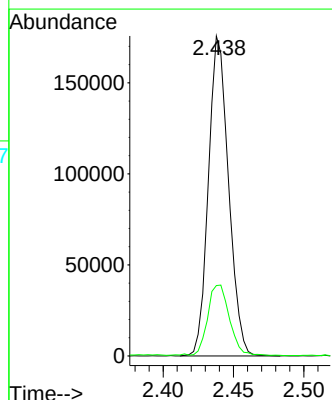
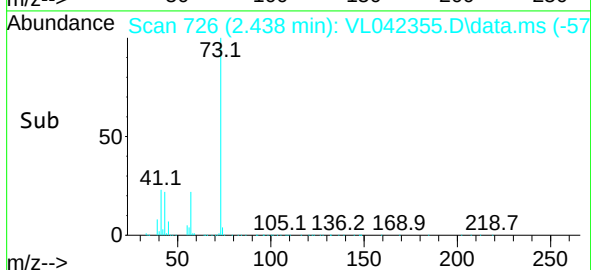
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

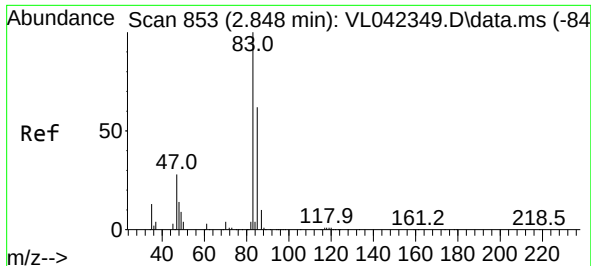


#28
Methyl tert-Butyl Ether
Concen: 14.076 ppbv
RT: 2.438 min Scan# 726
Delta R.T. -0.003 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54



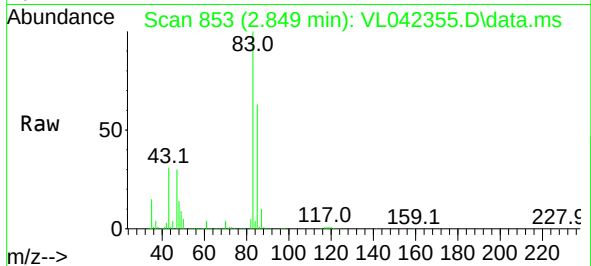
Tgt Ion: 73 Resp: 174855
Ion Ratio Lower Upper
73 100
57 24.3 21.3 31.9





#29
Chloroform
Concen: 14.393 ppbv
RT: 2.849 min Scan# 853
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

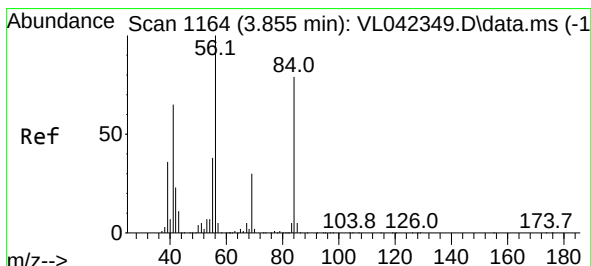
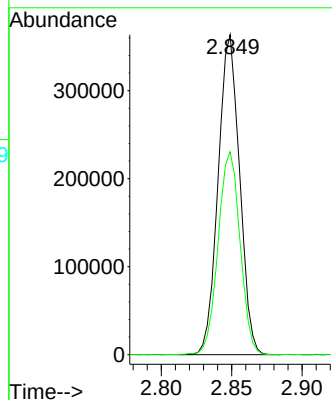
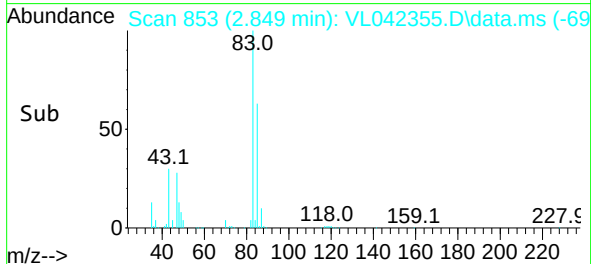
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



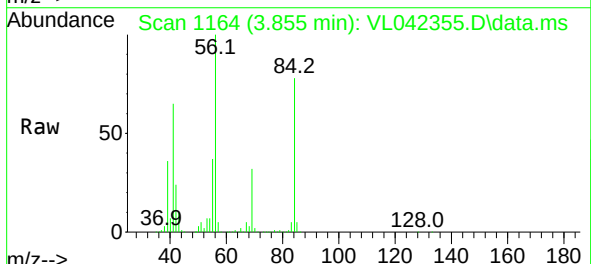
Tgt Ion: 83 Resp: 385680
Ion Ratio Lower Upper
83 100
85 63.4 50.0 75.0

Manual Integrations
APPROVED

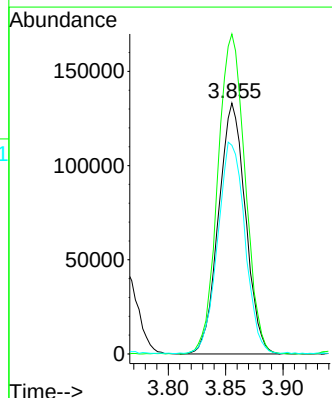
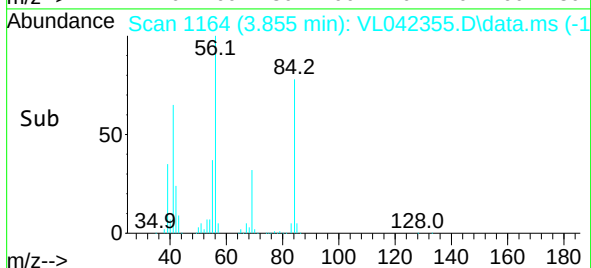
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

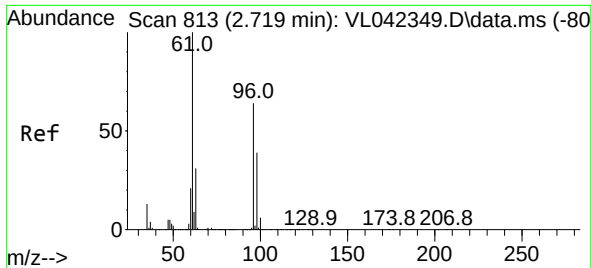


#30
Cyclohexane
Concen: 14.238 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54



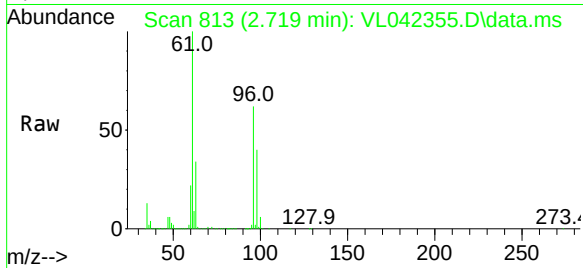
Tgt Ion: 84 Resp: 217375
Ion Ratio Lower Upper
84 100
56 129.4 101.0 151.4
41 85.3 67.4 101.0





#31
 cis-1,2-Dichloroethene
 Concen: 14.700 ppbv
 RT: 2.719 min Scan# 813
 Delta R.T. 0.000 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54

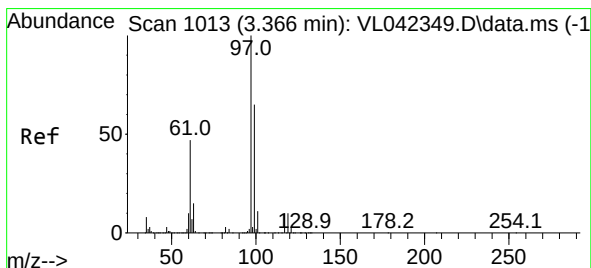
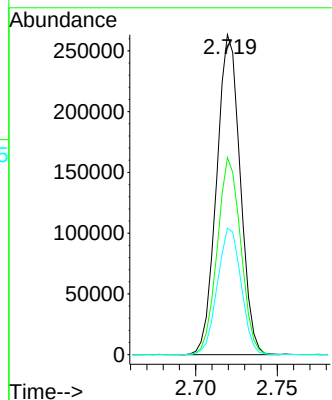
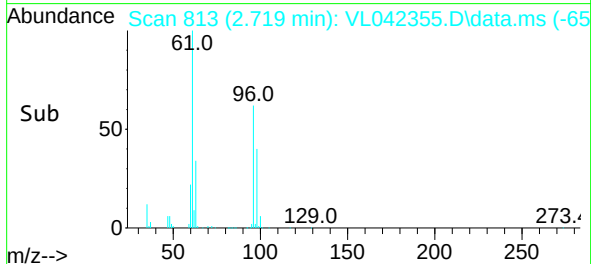
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



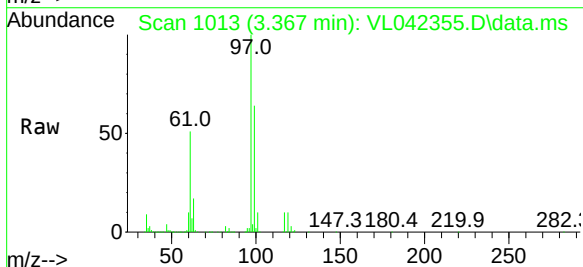
Tgt Ion: 61 Resp: 264972
 Ion Ratio Lower Upper
 61 100
 96 61.6 50.8 76.2
 98 39.5 30.9 46.3

Manual Integrations
 APPROVED

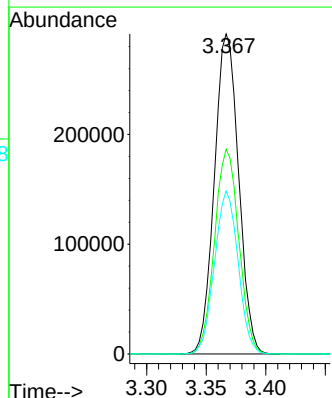
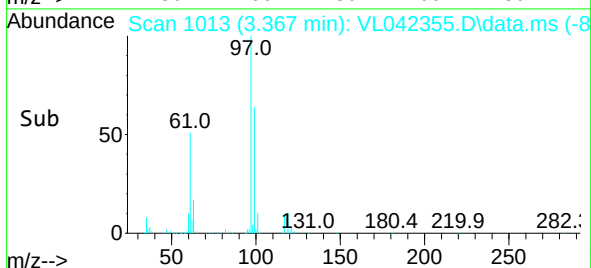
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

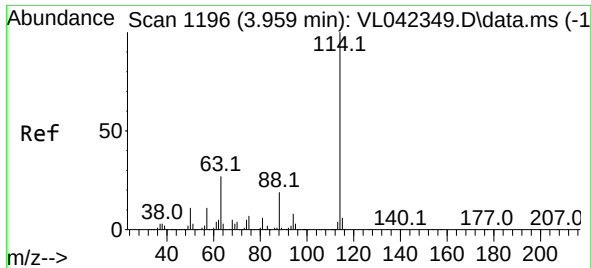


#32
 1,1,1-Trichloroethane
 Concen: 14.357 ppbv
 RT: 3.367 min Scan# 1013
 Delta R.T. 0.000 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54



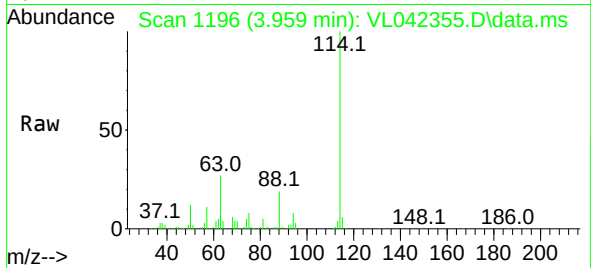
Tgt Ion: 97 Resp: 412537
 Ion Ratio Lower Upper
 97 100
 99 64.1 51.0 76.4
 61 49.8 38.8 58.2





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

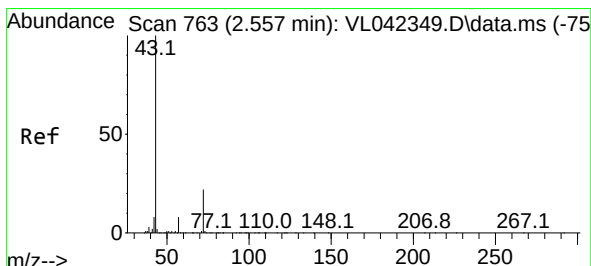
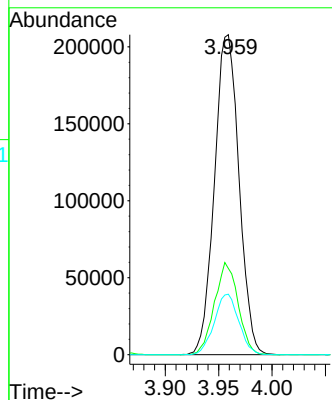
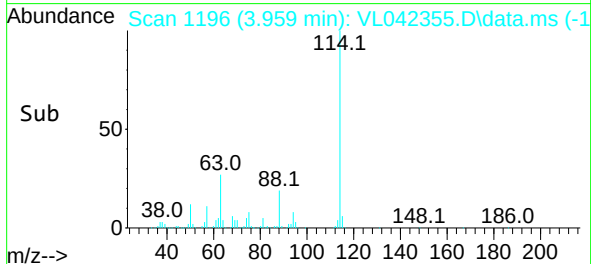
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion:114 Resp: 332080
Ion Ratio Lower Upper
114 100
63 27.7 21.8 32.6
88 18.9 15.5 23.3

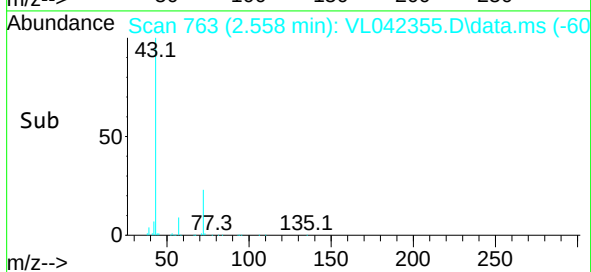
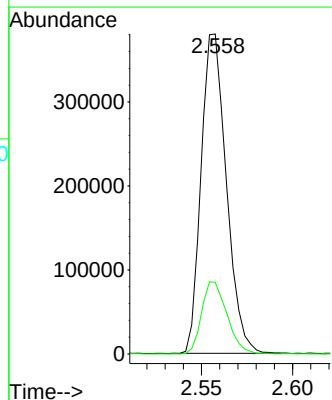
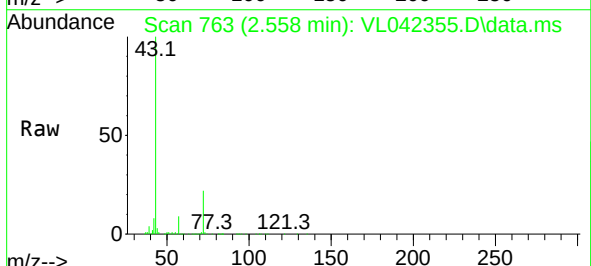
Manual Integrations
APPROVED

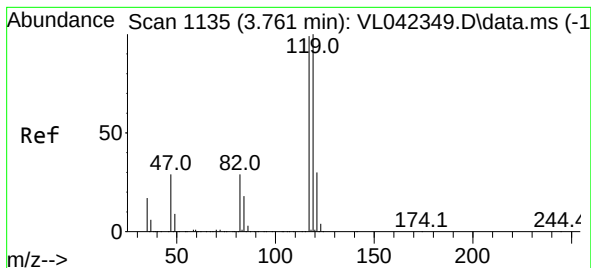
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#34
2-Butanone
Concen: 13.986 ppbv
RT: 2.558 min Scan# 763
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 43 Resp: 367315
Ion Ratio Lower Upper
43 100
72 22.7 18.2 27.2





#35

Carbon Tetrachloride

Concen: 13.639 ppbv

RT: 3.762 min Scan# 1135

Delta R.T. 0.000 min

Lab File: VL042355.D

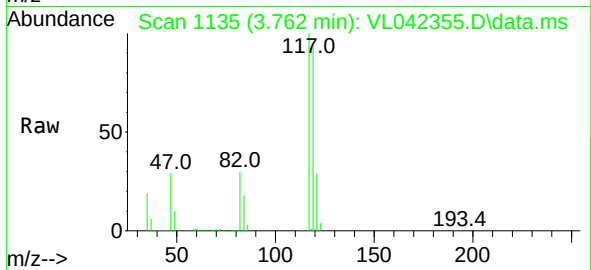
Acq: 17 Apr 2025 12:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015



Tgt Ion: 117 Resp: 409910

Ion Ratio Lower Upper

117 100

119 94.0 80.5 120.7

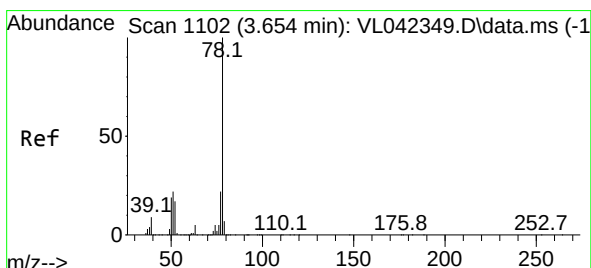
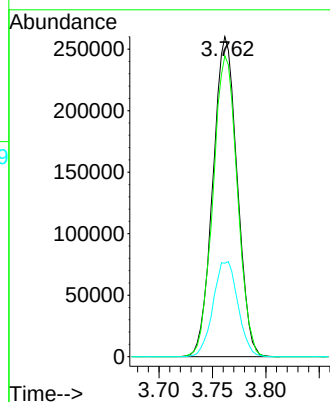
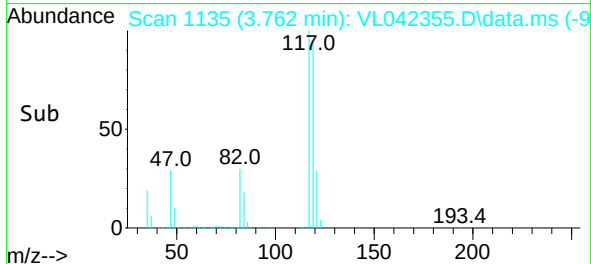
121 29.2 24.2 36.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#36

Benzene

Concen: 14.578 ppbv

RT: 3.655 min Scan# 1102

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

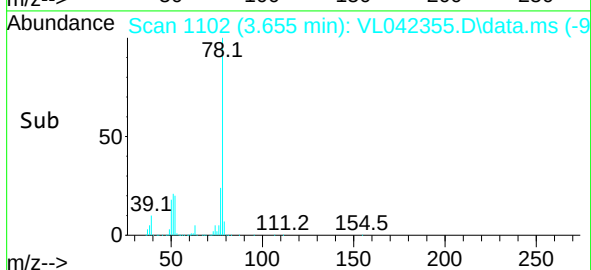
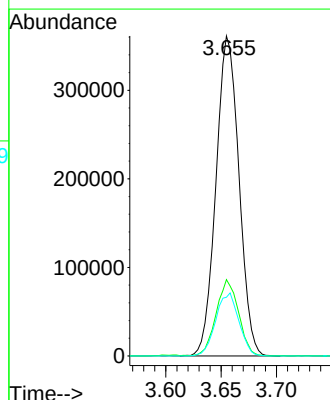
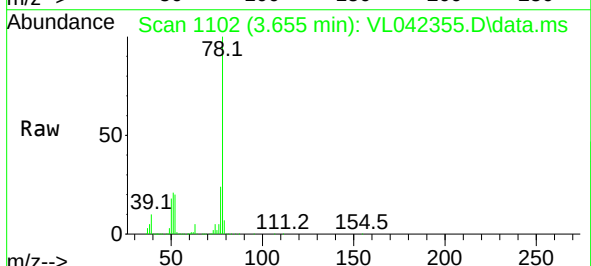
Tgt Ion: 78 Resp: 522156

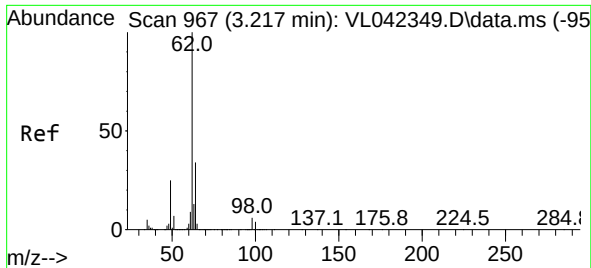
Ion Ratio Lower Upper

78 100

77 23.8 17.4 26.0

50 18.3 15.5 23.3





#37

1,2-Dichloroethane

Concen: 14.863 ppbv

RT: 3.218 min Scan# 967

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 62 Resp: 31951

Ion Ratio Lower Upper

62 100

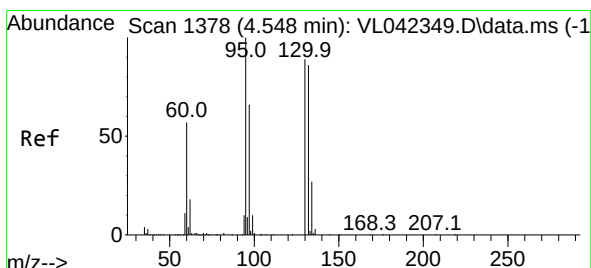
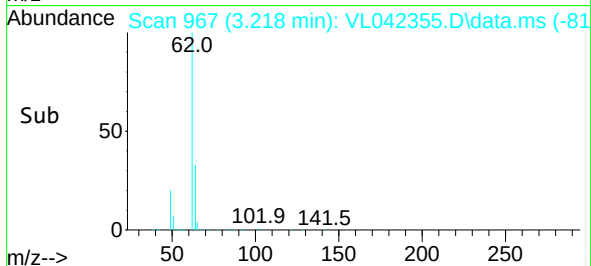
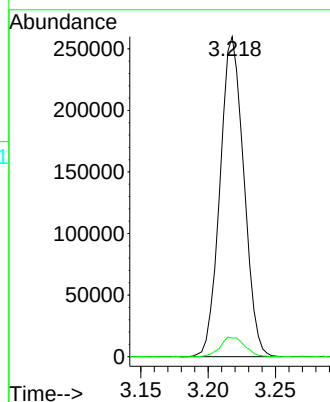
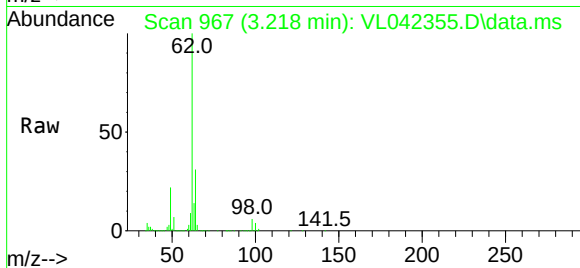
98 6.3 5.1 7.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#38

Trichloroethene

Concen: 13.278 ppbv

RT: 4.548 min Scan# 1378

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Tgt Ion:130 Resp: 208508

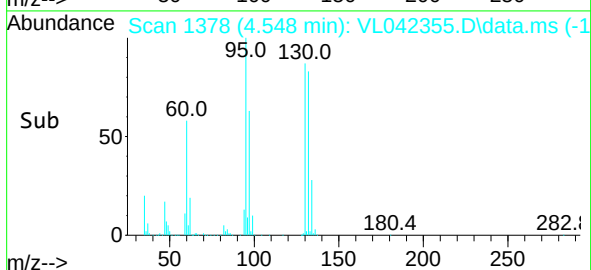
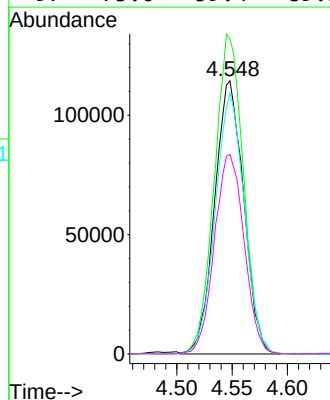
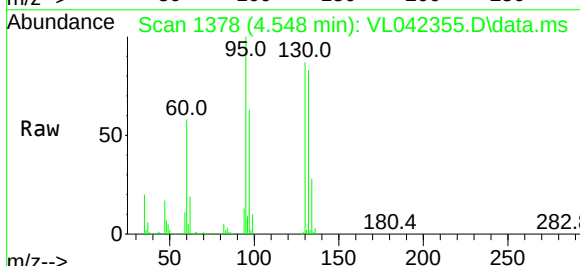
Ion Ratio Lower Upper

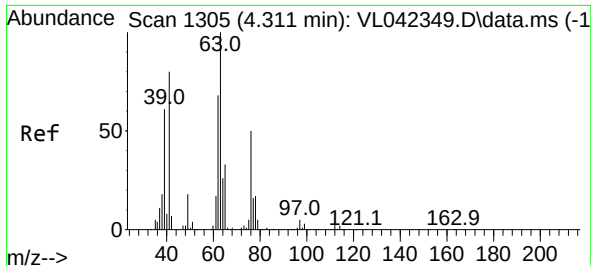
130 100

95 115.0 89.8 134.6

132 95.3 77.7 116.5

97 73.0 59.4 89.2





#39

1,2-Dichloropropane

Concen: 14.201 ppbv

RT: 4.312 min Scan# 1305

Delta R.T. 0.000 min

Lab File: VL042355.D

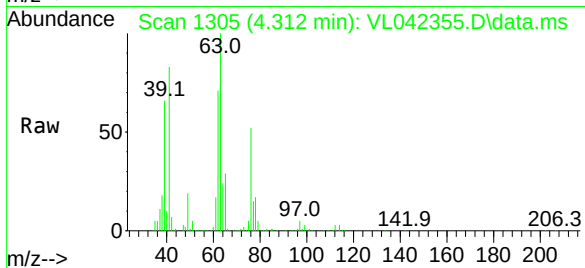
Acq: 17 Apr 2025 12:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

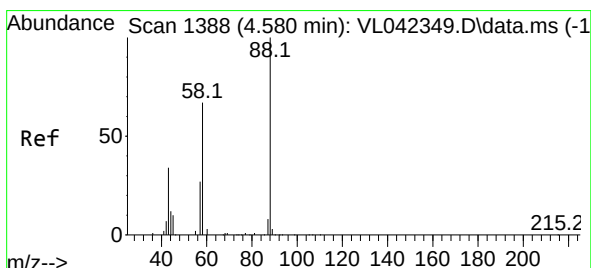
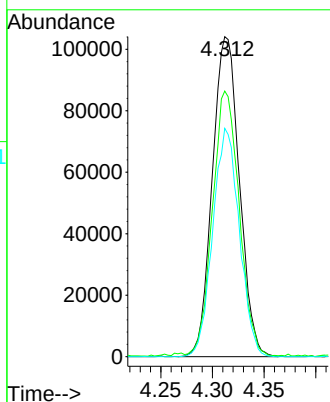
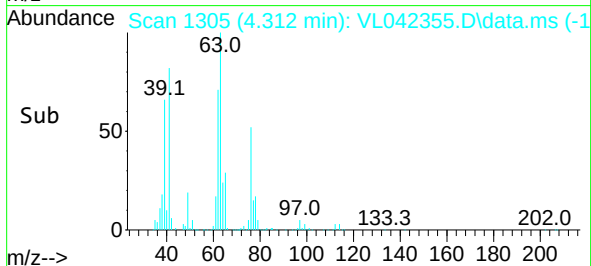


Tgt Ion:	63	Resp:	18969
Ion Ratio	Lower	Upper	
63	100		
41	82.7	64.2	96.2
62	71.4	54.3	81.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#40

1,4-Dioxane

Concen: 12.733 ppbv

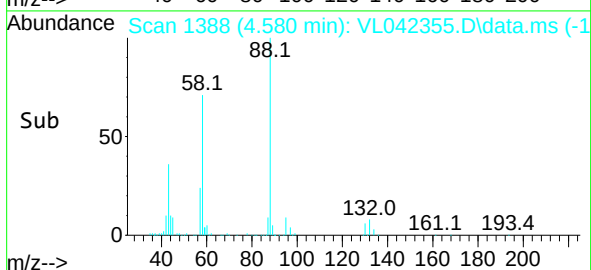
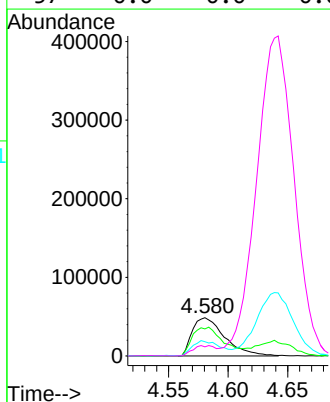
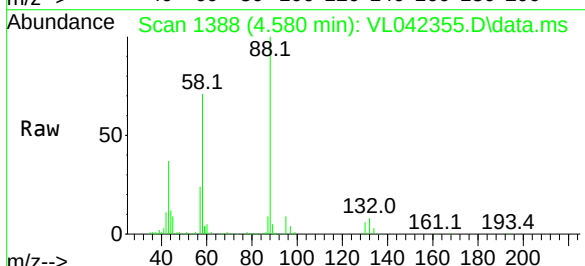
RT: 4.580 min Scan# 1388

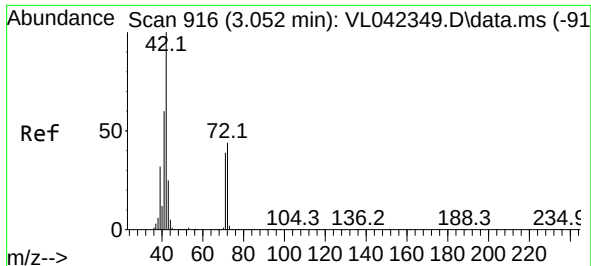
Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

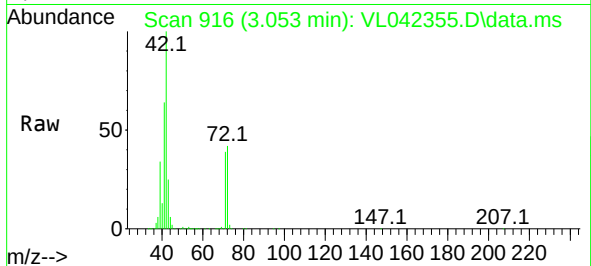
Tgt Ion:	88	Resp:	92114
Ion Ratio	Lower	Upper	
88	100		
58	75.2	61.4	92.0
43	36.8	23.2	34.8
57	0.0	0.0	0.0





#41
Tetrahydrofuran
Concen: 14.166 ppbv
RT: 3.053 min Scan# 916
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

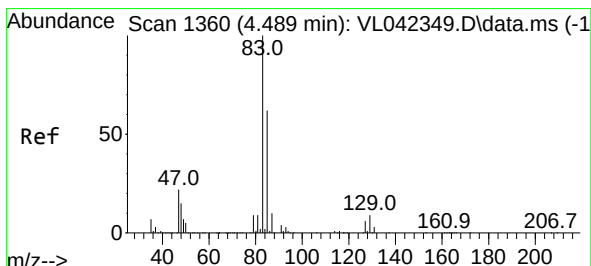
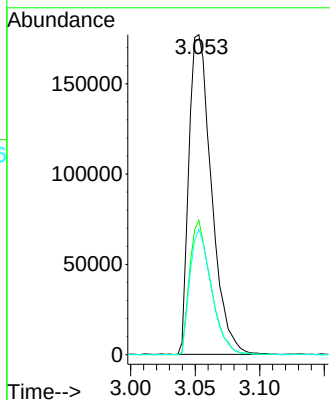
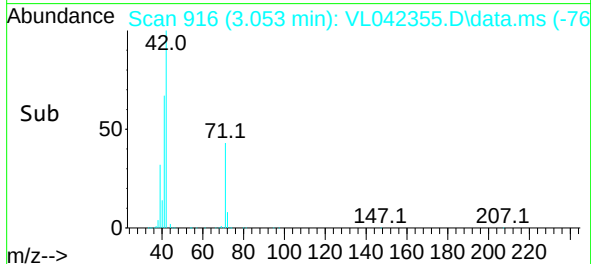
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion: 42 Resp: 214949
Ion Ratio Lower Upper
42 100
72 39.7 32.3 48.5
71 37.9 31.4 47.2

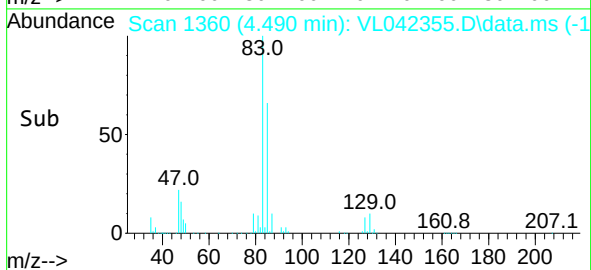
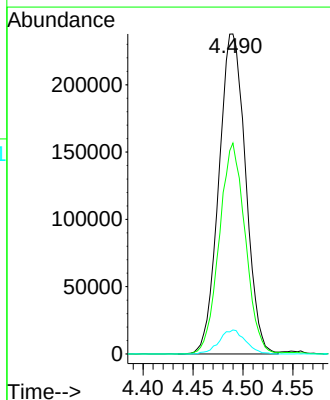
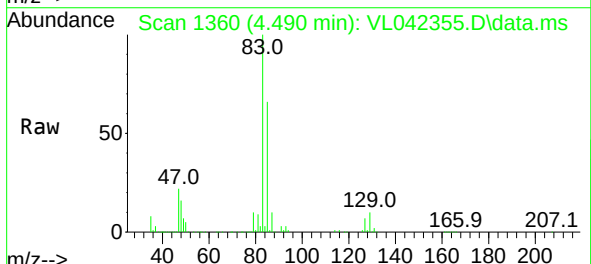
Manual Integrations
APPROVED

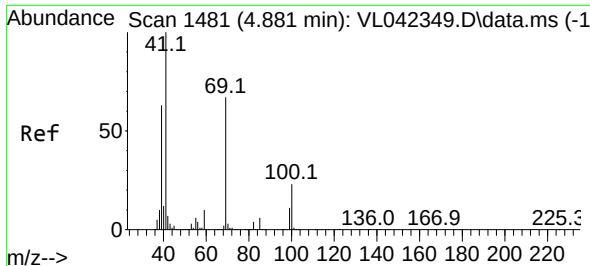
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#42
Bromodichloromethane
Concen: 14.798 ppbv
RT: 4.490 min Scan# 1360
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

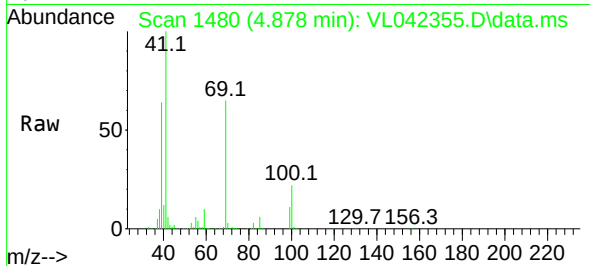
Tgt Ion: 83 Resp: 442735
Ion Ratio Lower Upper
83 100
85 65.9 49.7 74.5
127 7.5 5.1 7.7





#43
Methyl Methacrylate
Concen: 13.670 ppbv
RT: 4.878 min Scan# 1480
Delta R.T. -0.003 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

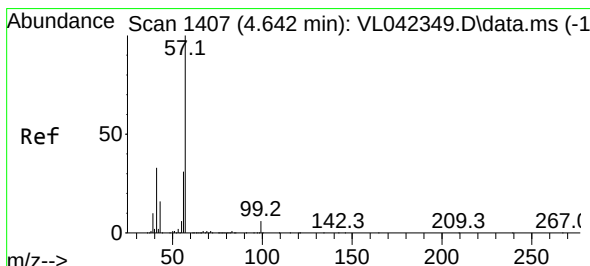
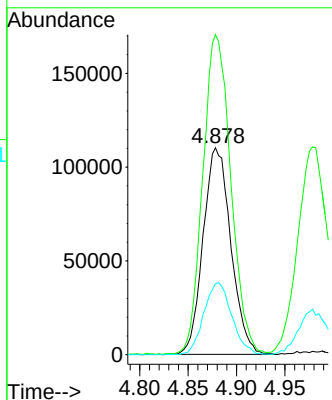
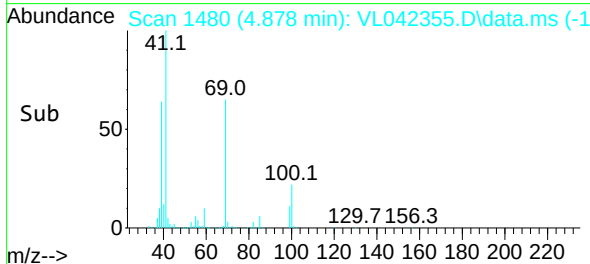
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



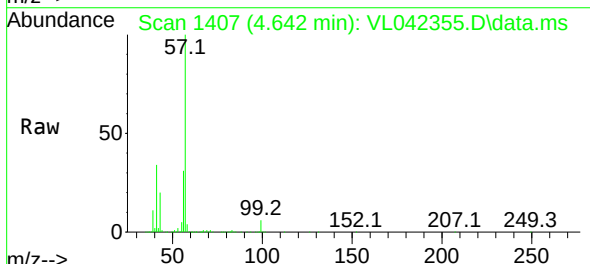
Tgt Ion: 69 Resp: 21975
Ion Ratio Lower Upper
69 100
41 156.6 118.6 177.8
100 35.2 28.2 42.2

Manual Integrations
APPROVED

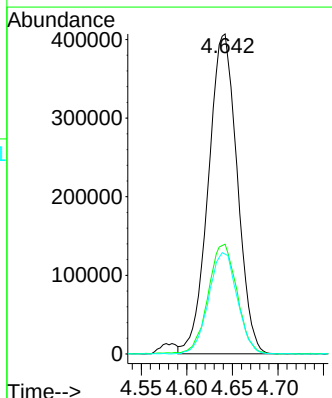
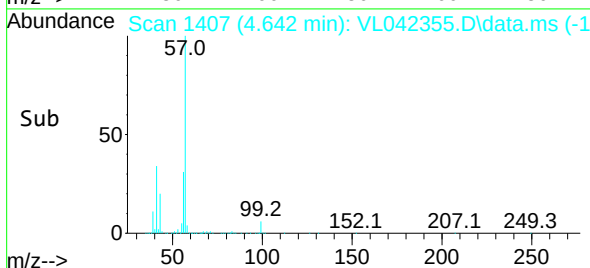
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

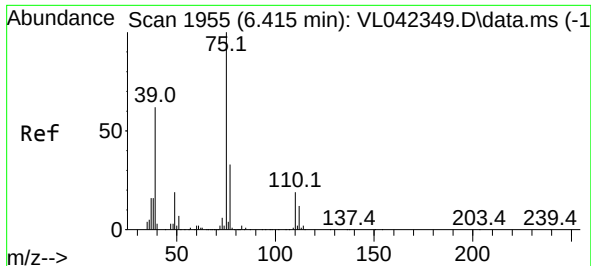


#44
2,2,4-Trimethylpentane
Concen: 14.425 ppbv
RT: 4.642 min Scan# 1407
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54



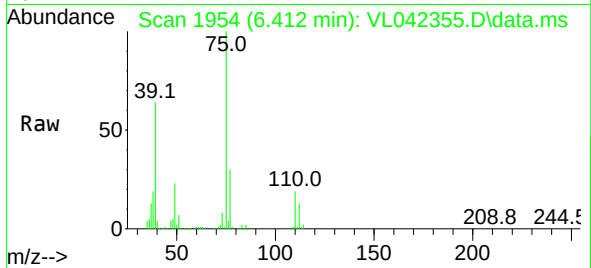
Tgt Ion: 57 Resp: 893529
Ion Ratio Lower Upper
57 100
41 34.4 27.2 40.8
56 31.6 25.7 38.5





#45
 t-1,3-Dichloropropene
 Concen: 14.810 ppbv
 RT: 6.412 min Scan# 1955
 Delta R.T. -0.003 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54

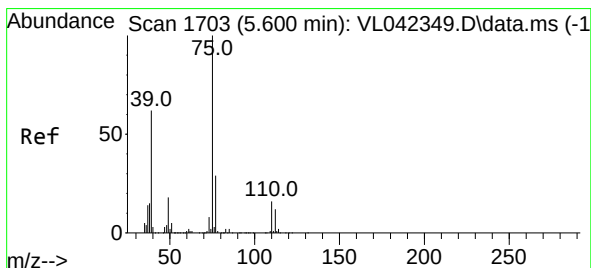
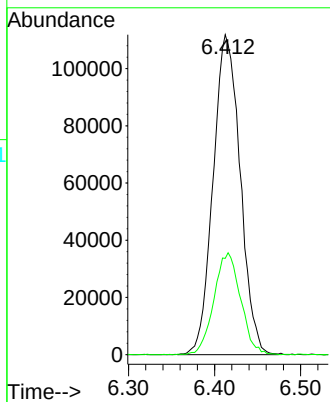
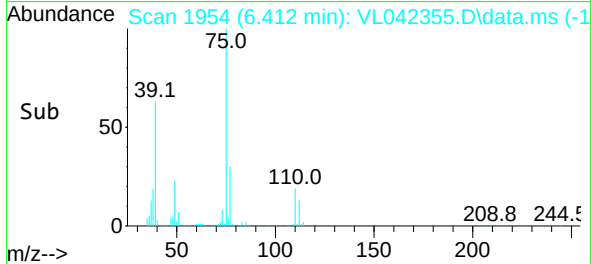
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



Tgt Ion: 75 Resp: 244470
 Ion Ratio Lower Upper
 75 100
 77 30.1 27.0 40.6

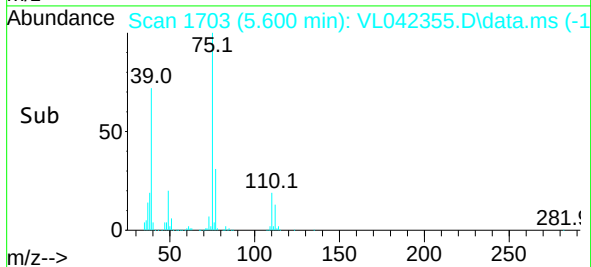
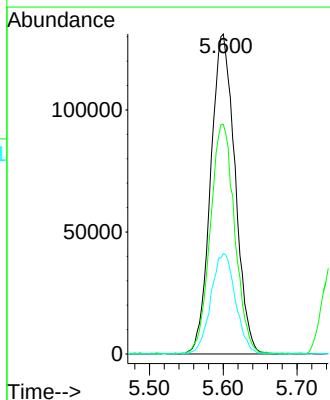
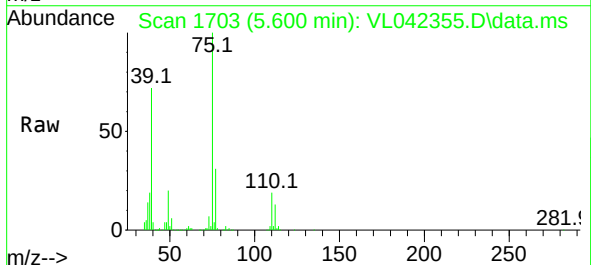
Manual Integrations
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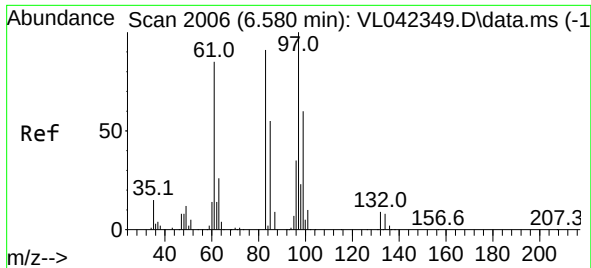
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#46
 cis-1,3-Dichloropropene
 Concen: 14.878 ppbv
 RT: 5.600 min Scan# 1703
 Delta R.T. 0.000 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54

Tgt Ion: 75 Resp: 300145
 Ion Ratio Lower Upper
 75 100
 39 71.6 50.0 75.0
 77 31.3 23.0 34.6





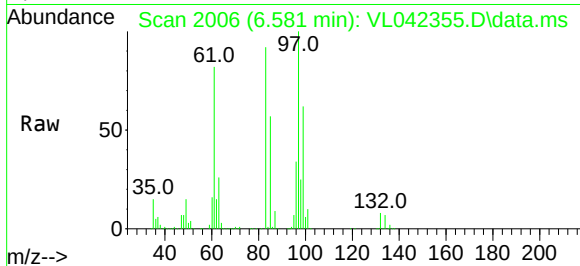
#47
1,1,2-Trichloroethane
Concen: 14.615 ppbv
RT: 6.581 min Scan# 2006
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

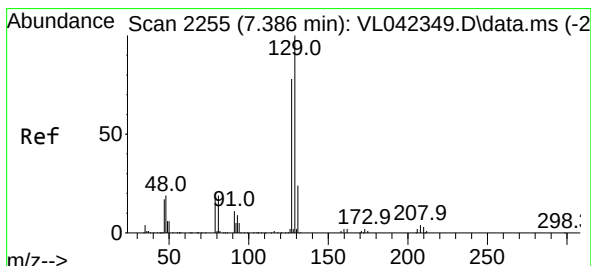
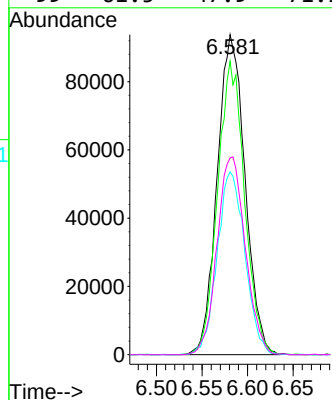
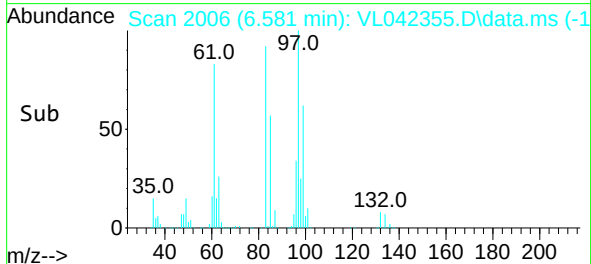


Tgt Ion: 97 Resp: 198874
Ion Ratio Lower Upper
97 100
83 91.7 72.8 109.2
85 57.0 44.2 66.4
99 61.5 47.9 71.9

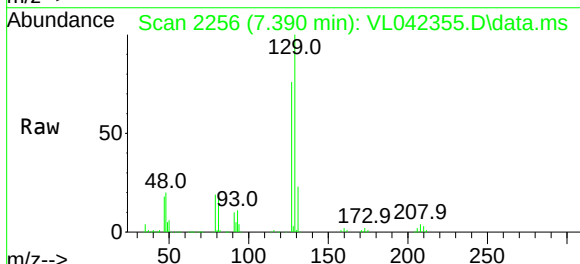
Manual Integrations

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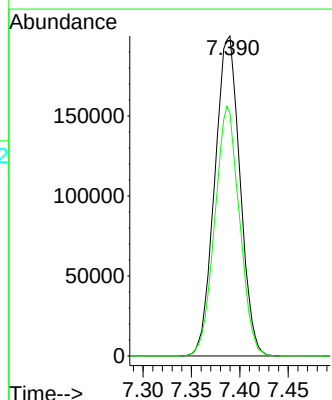
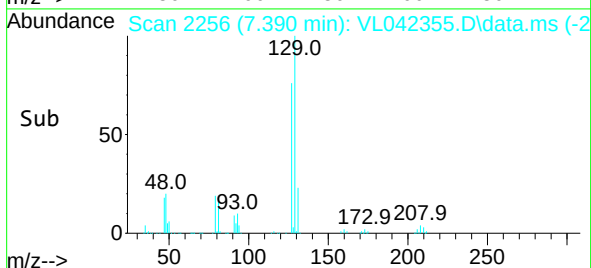
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

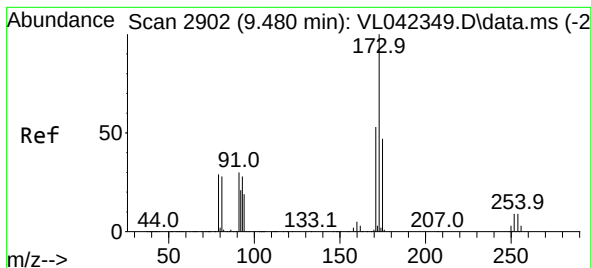


#48
Dibromochloromethane
Concen: 15.105 ppbv
RT: 7.390 min Scan# 2256
Delta R.T. 0.004 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54



Tgt Ion:129 Resp: 362887
Ion Ratio Lower Upper
129 100
127 76.3 39.1 117.3





#49

Bromoform

Concen: 14.865 ppbv

RT: 9.484 min Scan# 2902

Delta R.T. 0.004 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion:173 Resp: 31228

Ion Ratio Lower Upper

173 100

175 47.3 38.2 57.2

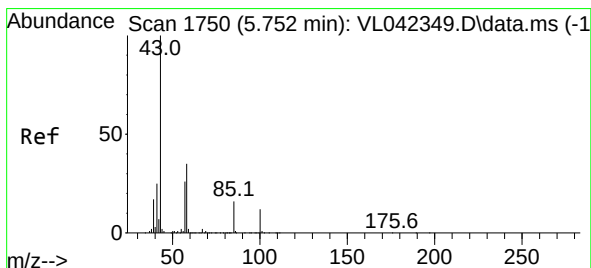
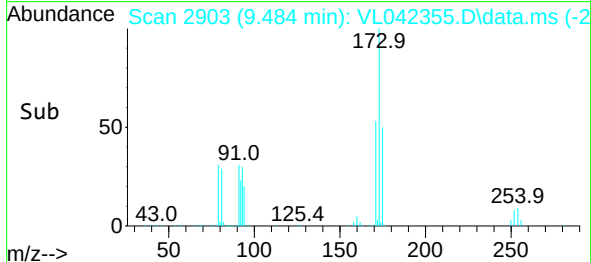
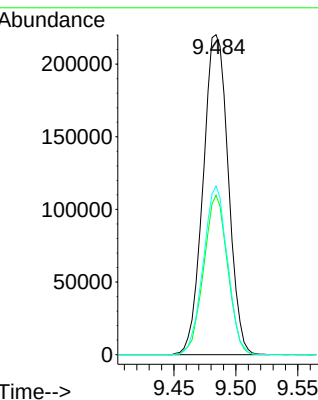
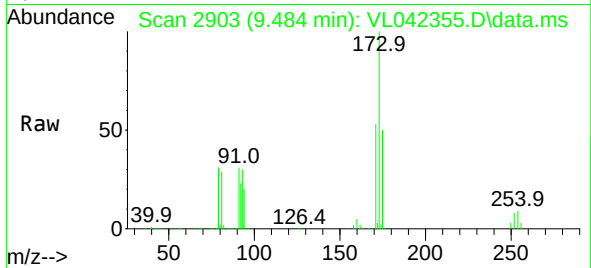
171 50.6 40.9 61.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#50

4-Methyl-2-Pentanone

Concen: 12.889 ppbv

RT: 5.749 min Scan# 1749

Delta R.T. -0.003 min

Lab File: VL042355.D

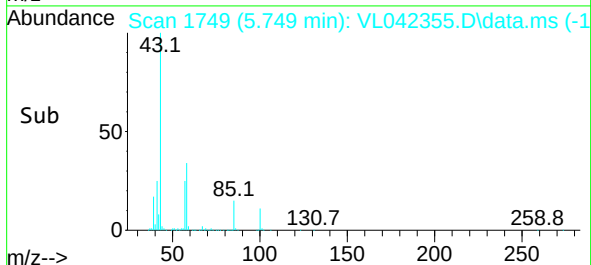
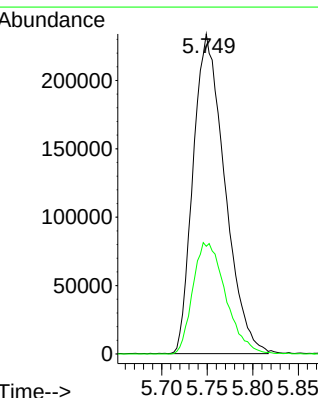
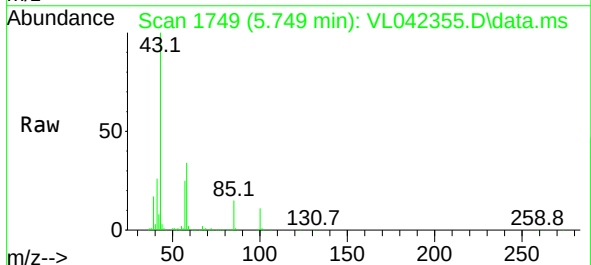
Acq: 17 Apr 2025 12:54

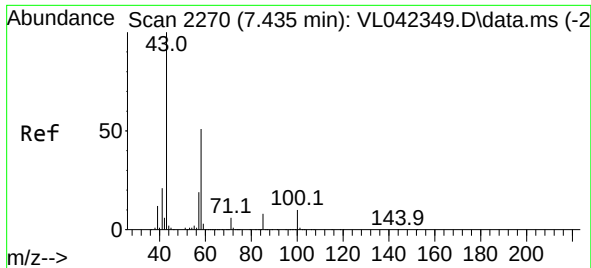
Tgt Ion: 43 Resp: 563658

Ion Ratio Lower Upper

43 100

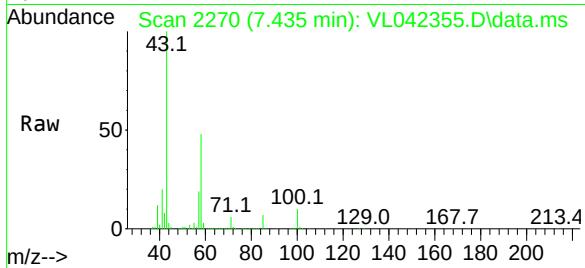
58 36.3 28.6 43.0





#51
2-Hexanone
Concen: 11.834 ppbv
RT: 7.435 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

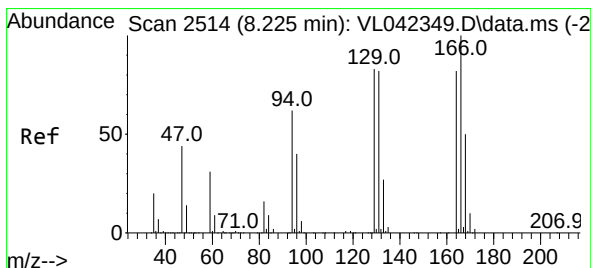
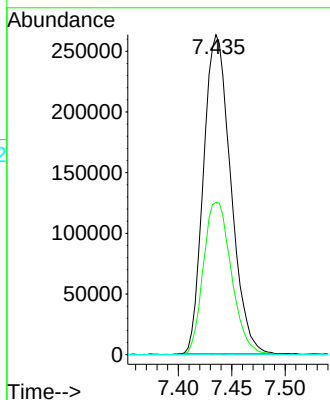
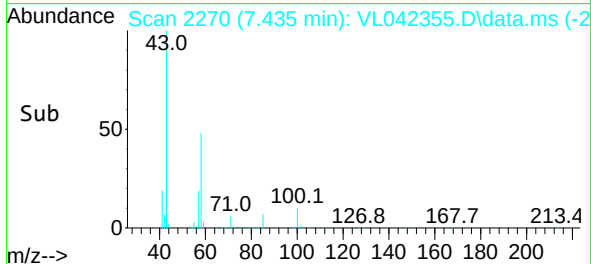
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



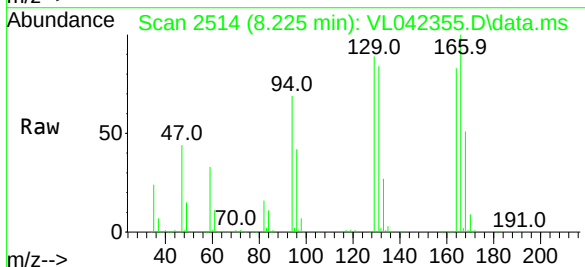
Tgt Ion: 43 Resp: 46700
Ion Ratio Lower Upper
43 100
58 49.2 40.2 60.4
98 0.0 0.1 0.1

Manual Integrations
APPROVED

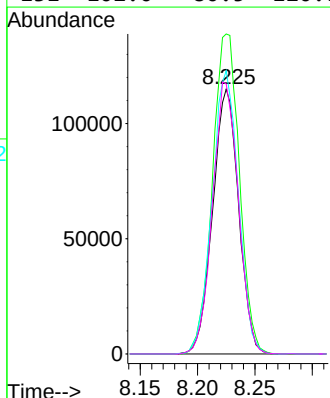
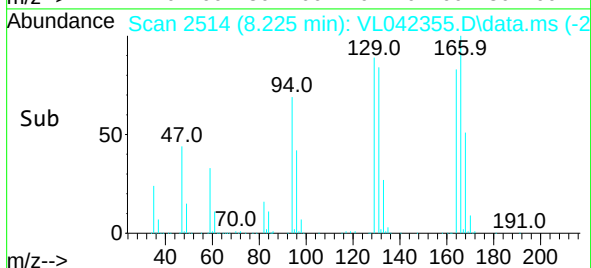
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

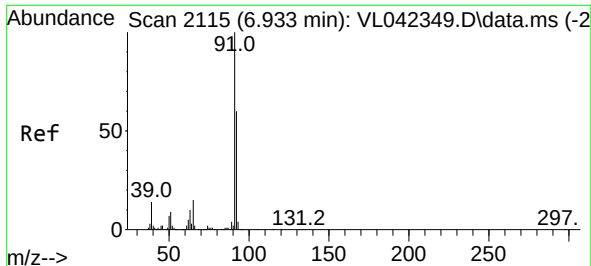


#52
Tetrachloroethene
Concen: 13.046 ppbv
RT: 8.225 min Scan# 2514
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54



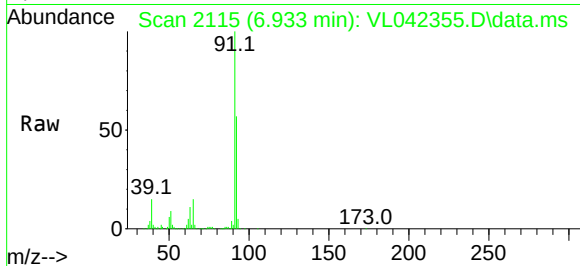
Tgt Ion:164 Resp: 180631
Ion Ratio Lower Upper
164 100
166 120.8 98.2 147.2
129 107.0 81.8 122.8
131 102.0 80.5 120.7





#53
Toluene
Concen: 14.411 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

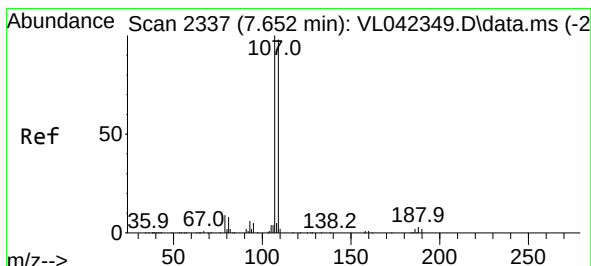
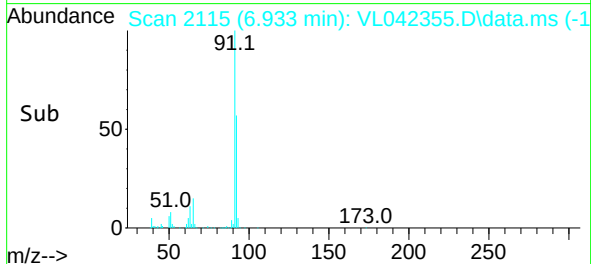
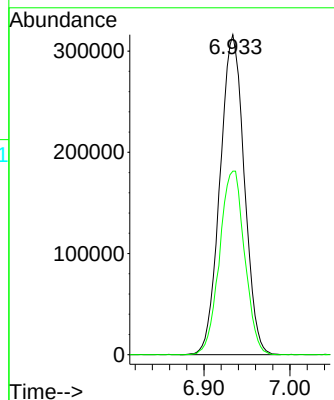
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion: 91 Resp: 619420
Ion Ratio Lower Upper
91 100
92 59.3 48.2 72.4

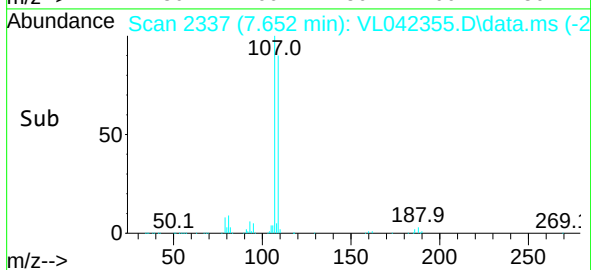
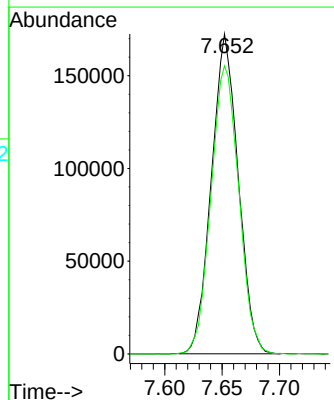
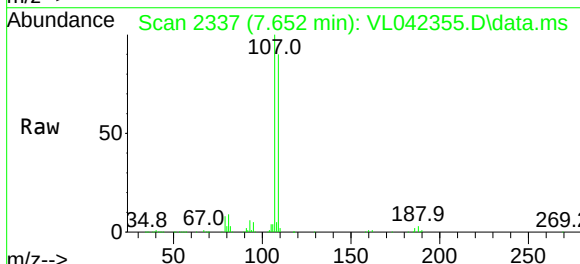
Manual Integrations
APPROVED

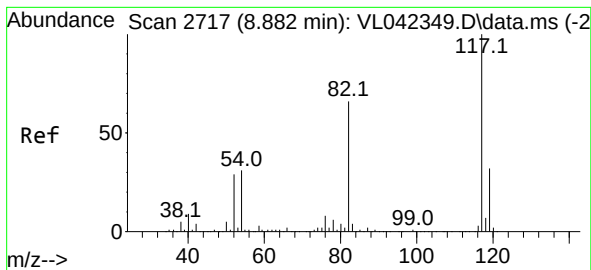
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#54
1,2-Dibromoethane
Concen: 14.442 ppbv
RT: 7.652 min Scan# 2337
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:107 Resp: 280071
Ion Ratio Lower Upper
107 100
109 89.9 78.2 117.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.882 min Scan# 2717

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC015

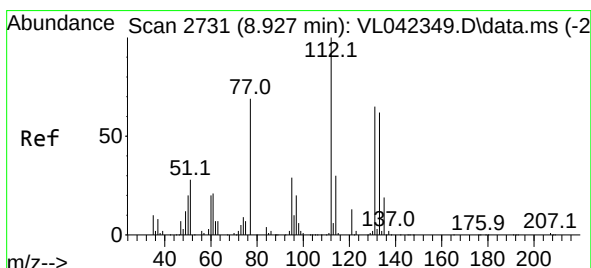
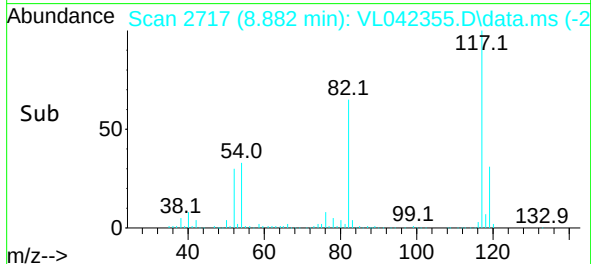
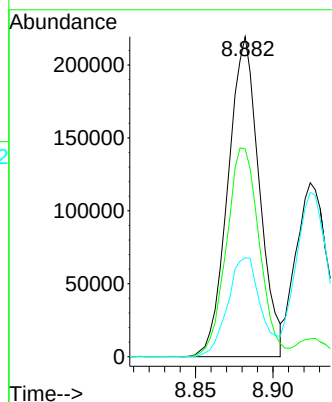
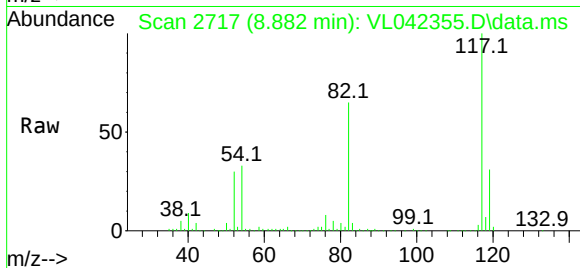
Tgt Ion:117 Resp: 30846

Ion	Ratio	Lower	Upper
117	100		
82	74.2	57.8	86.6
119	31.4	25.2	37.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#56

1,1,1,2-Tetrachloroethane

Concen: 14.389 ppbv

RT: 8.927 min Scan# 2731

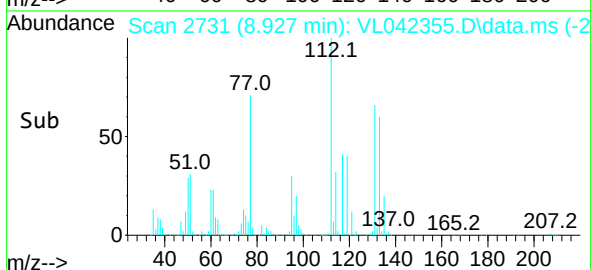
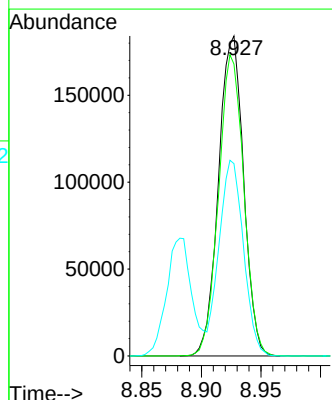
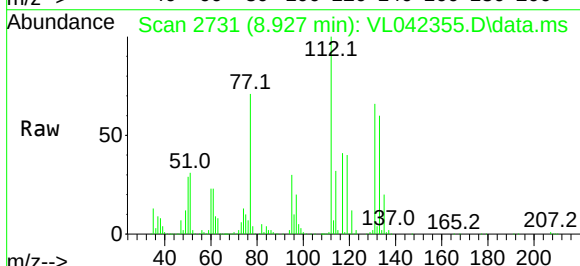
Delta R.T. 0.000 min

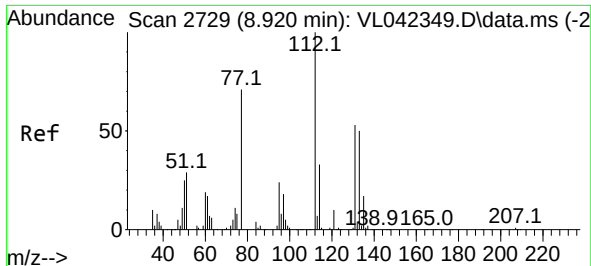
Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Tgt Ion:131 Resp: 268626

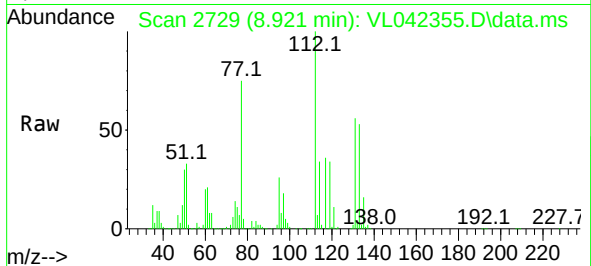
Ion	Ratio	Lower	Upper
131	100		
133	94.6	78.3	117.5
119	59.4	48.7	73.1





#57
Chlorobenzene
Concen: 14.151 ppbv
RT: 8.921 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

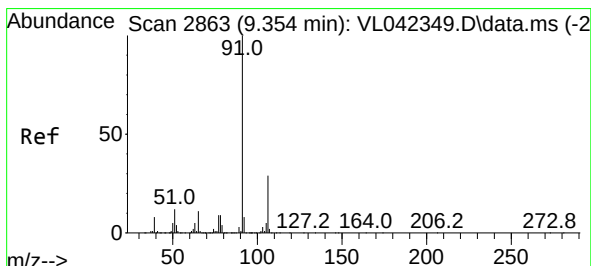
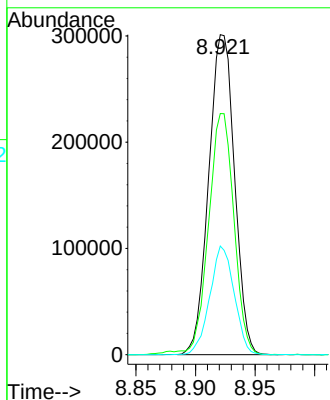
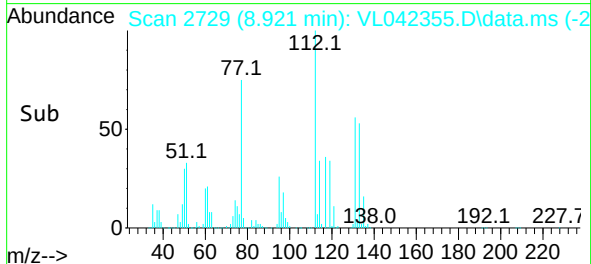
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



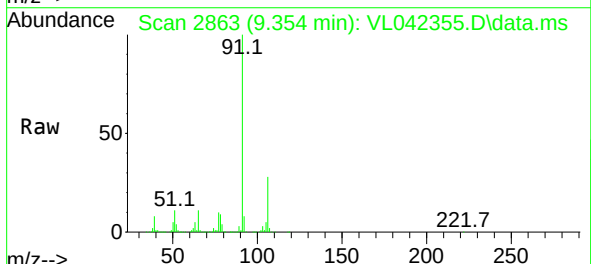
Tgt Ion:112 Resp: 45401
Ion Ratio Lower Upper
112 100
77 75.3 57.8 86.6
114 33.9 29.3 35.9

Manual Integrations
APPROVED

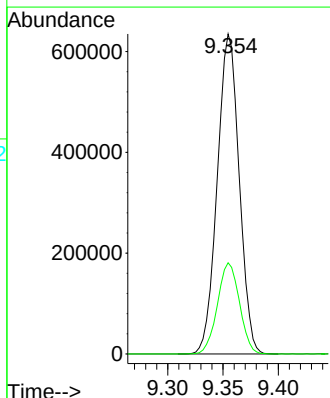
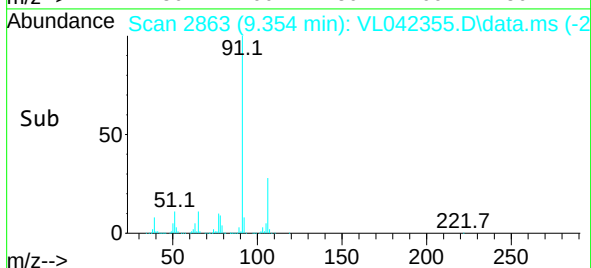
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

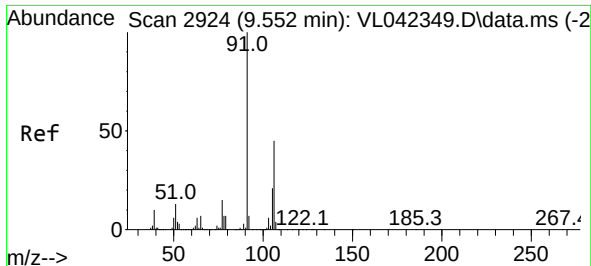


#58
Ethyl Benzene
Concen: 14.308 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54



Tgt Ion: 91 Resp: 874424
Ion Ratio Lower Upper
91 100
106 28.5 23.0 34.4





#59

m/p-Xylene

Concen: 28.109 ppbv m

RT: 9.552 min Scan# 2924

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC015

Tgt Ion: 91 Resp: 138808

Ion Ratio Lower Upper

91 100

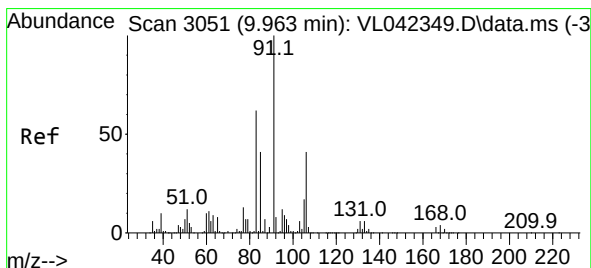
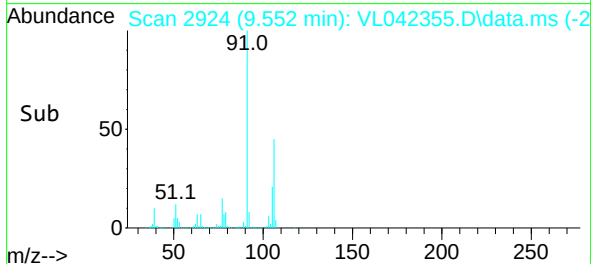
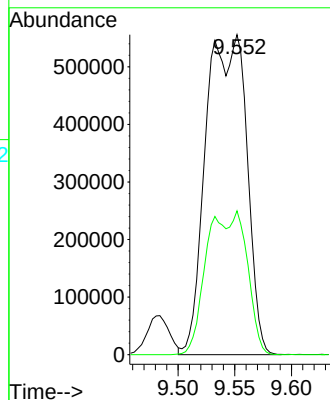
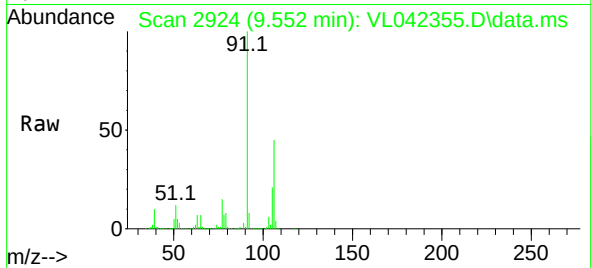
106 44.5 35.4 53.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#60

o-Xylene

Concen: 13.902 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. 0.000 min

Lab File: VL042355.D

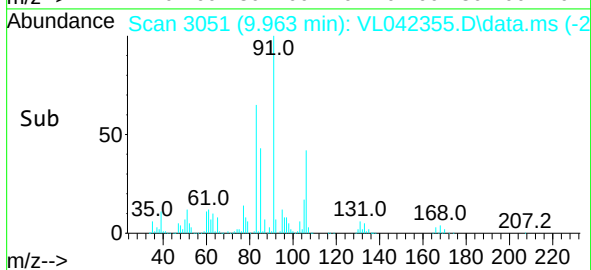
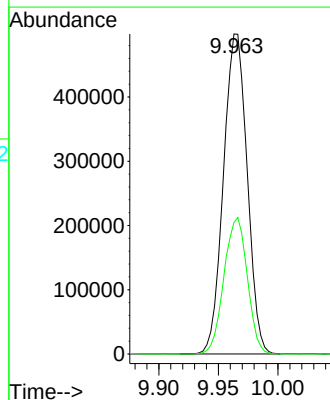
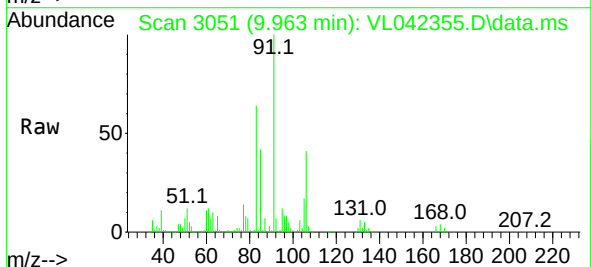
Acq: 17 Apr 2025 12:54

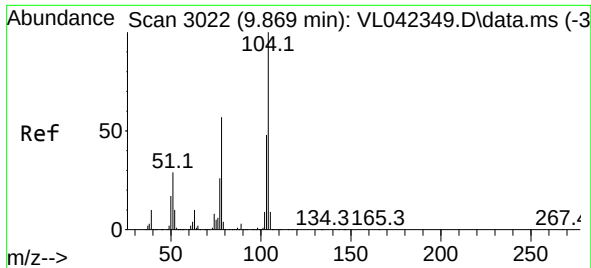
Tgt Ion: 91 Resp: 689246

Ion Ratio Lower Upper

91 100

106 41.9 21.1 63.4





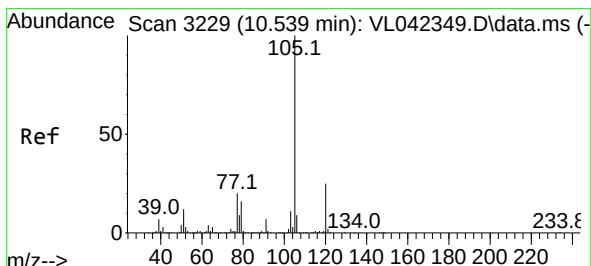
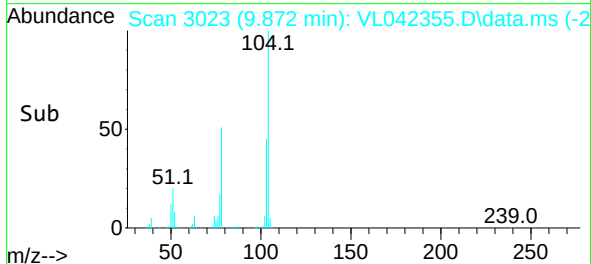
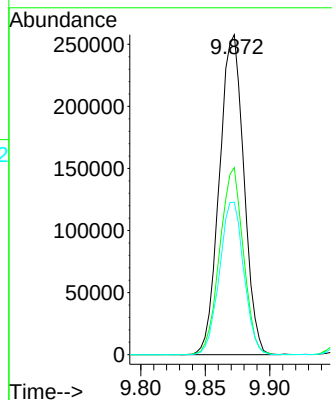
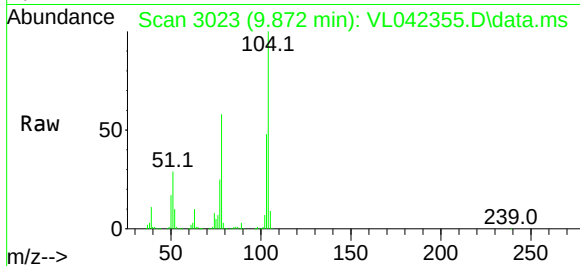
#61
Styrene
Concen: 14.347 ppbv
RT: 9.872 min Scan# 3022
Delta R.T. 0.004 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion:104 Resp: 339508
Ion Ratio Lower Upper
104 100
78 56.4 44.6 66.8
103 47.3 37.4 56.0

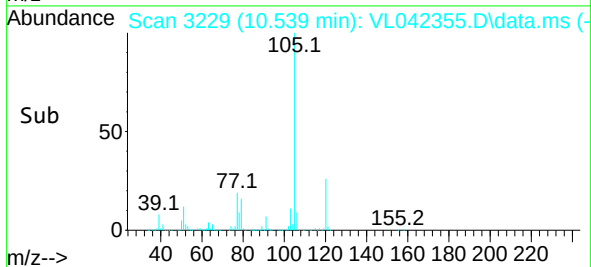
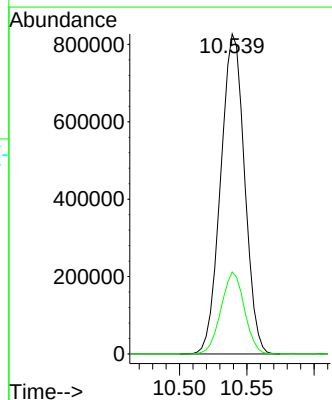
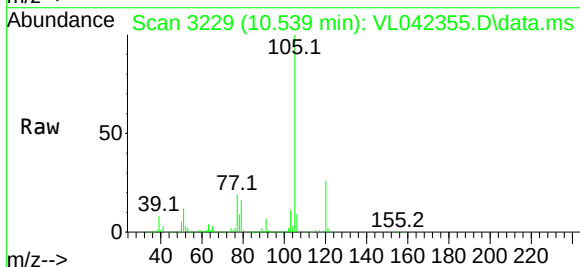
Manual Integrations
APPROVED

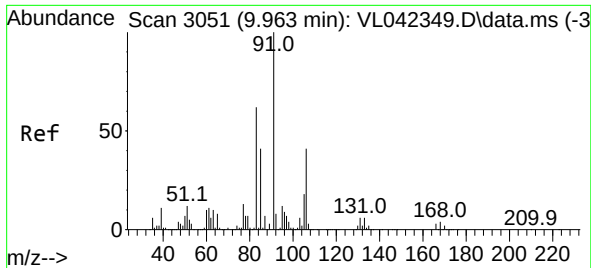
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#62
Isopropylbenzene
Concen: 13.999 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

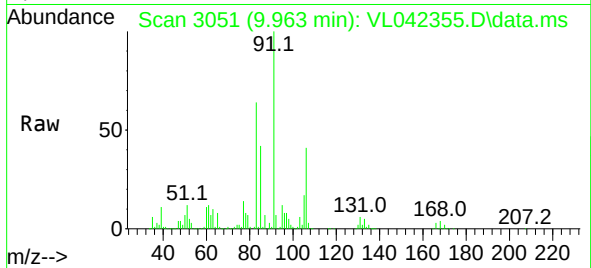
Tgt Ion:105 Resp: 1018968
Ion Ratio Lower Upper
105 100
120 25.0 19.8 29.8





#63
1,1,2,2-Tetrachloroethane
Concen: 12.816 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

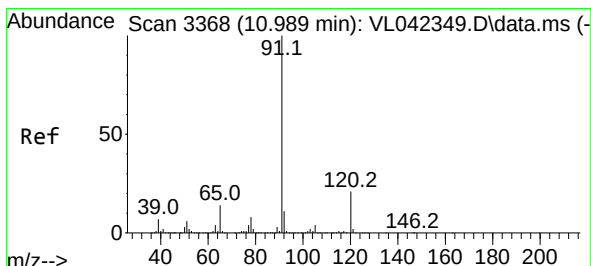
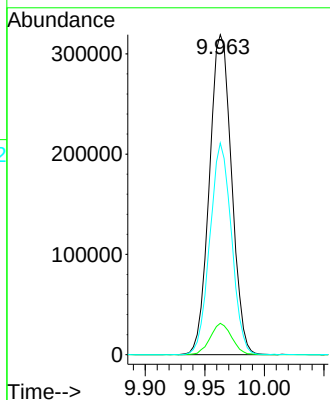
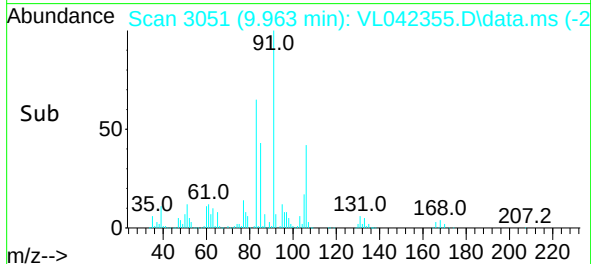
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



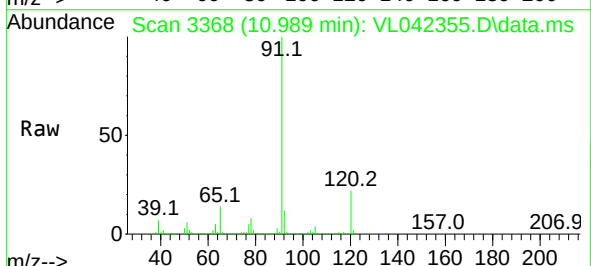
Tgt Ion: 83 Resp: 412898
Ion Ratio Lower Upper
83 100
131 9.5 4.5 13.7
85 64.5 32.4 97.0

Manual Integrations
APPROVED

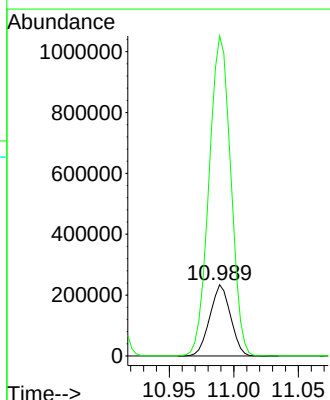
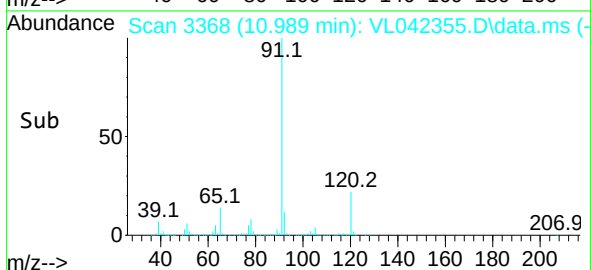
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

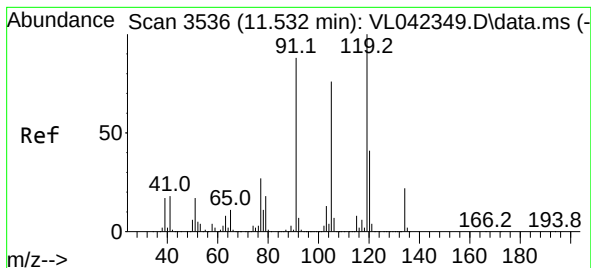


#64
n-propylbenzene
Concen: 14.255 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54



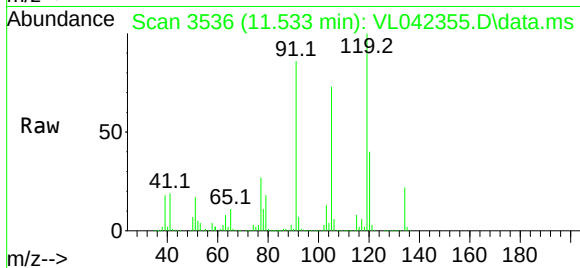
Tgt Ion:120 Resp: 260812
Ion Ratio Lower Upper
120 100
91 473.2 392.4 588.6





#65
tert-Butylbenzene
Concen: 13.449 ppbv
RT: 11.533 min Scan# 3536
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

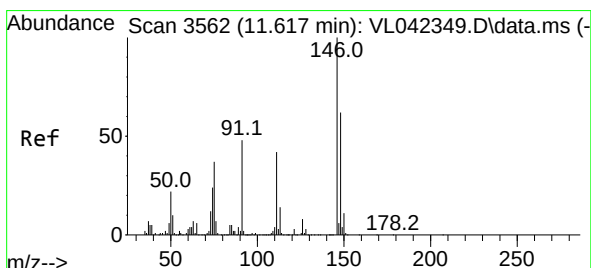
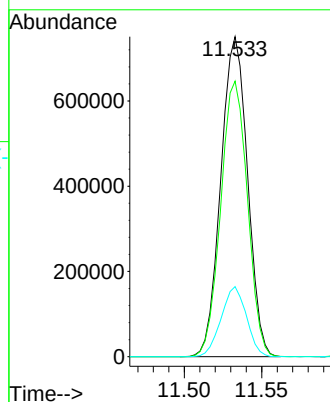
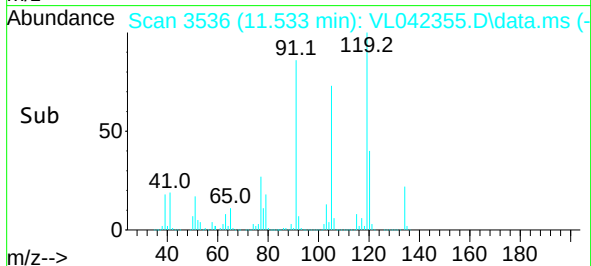
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



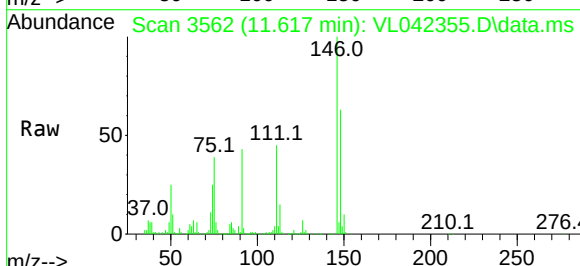
Tgt Ion: 119 Resp: 899720
Ion Ratio Lower Upper
119 100
91 86.2 74.6 111.8
134 20.8 18.8 28.2

Manual Integrations
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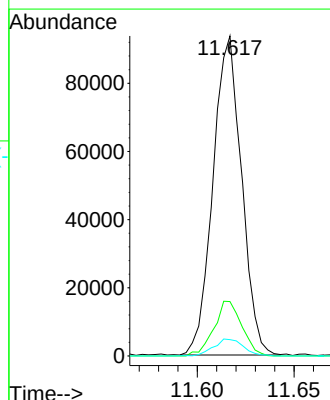
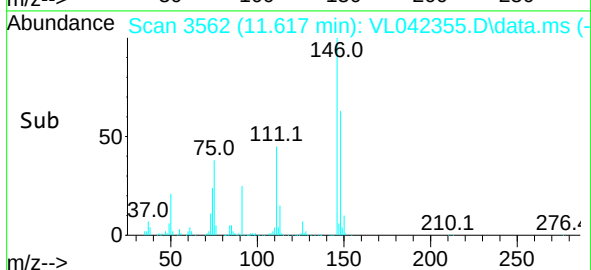
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

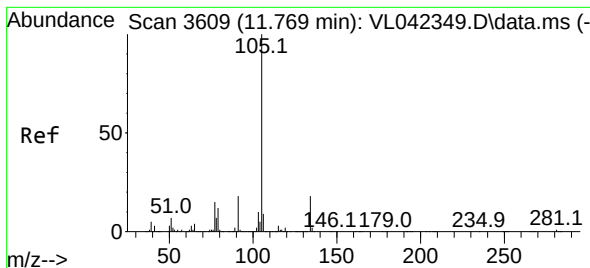


#66
Benzyl Chloride
Concen: 13.061 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54



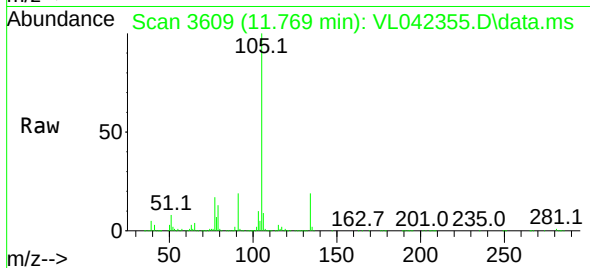
Tgt Ion: 91 Resp: 96016
Ion Ratio Lower Upper
91 100
126 16.8 11.8 17.6
128 5.5 4.5 6.7





#67
 sec-Butylbenzene
 Concen: 13.468 ppbv
 RT: 11.769 min Scan# 3609
 Delta R.T. 0.000 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54

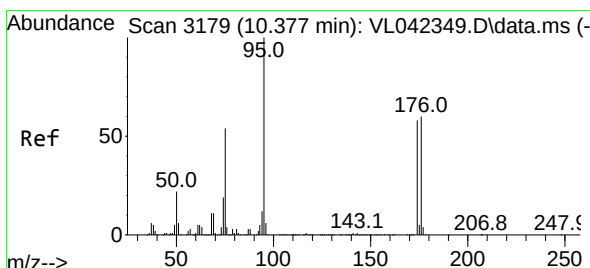
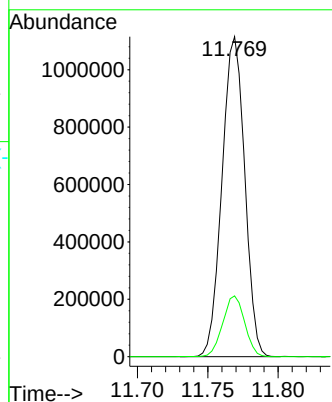
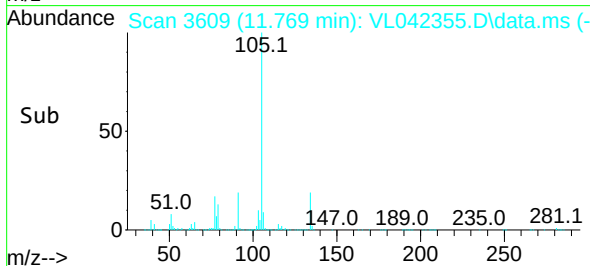
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



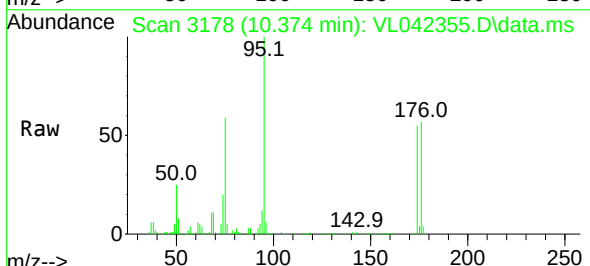
Tgt Ion:105 Resp: 125326
 Ion Ratio Lower Upper
 105 100
 134 18.4 14.6 21.8

Manual Integrations
 APPROVED

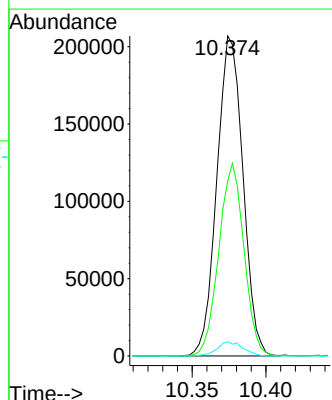
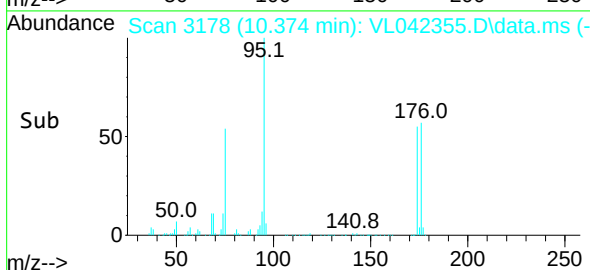
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

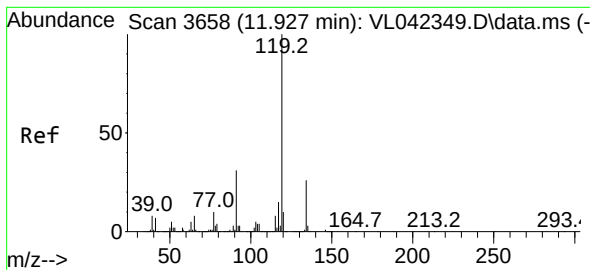


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.038 ppbv
 RT: 10.374 min Scan# 3178
 Delta R.T. -0.003 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54



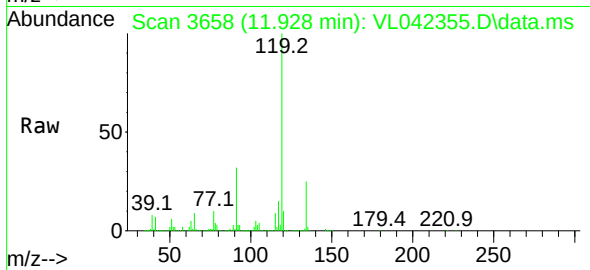
Tgt Ion: 95 Resp: 254437
 Ion Ratio Lower Upper
 95 100
 174 58.1 48.5 72.7
 175 4.4 3.7 5.5





#69
p-Isopropyltoluene
Concen: 13.382 ppbv
RT: 11.928 min Scan# 3658
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

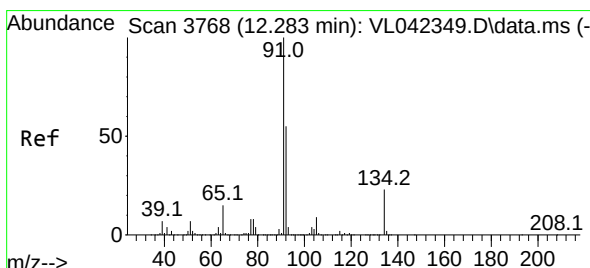
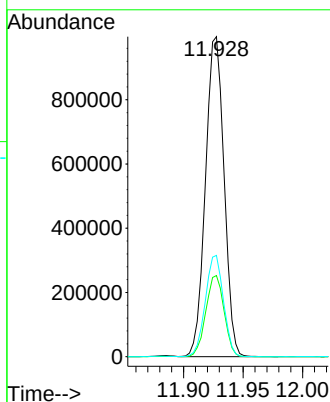
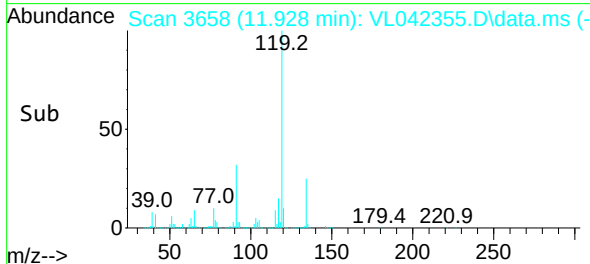
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



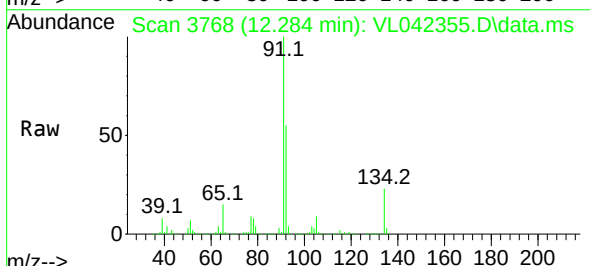
Tgt Ion:119 Resp: 1081850
Ion Ratio Lower Upper
119 100
134 25.0 20.0 30.0
91 31.1 24.4 36.6

Manual Integrations
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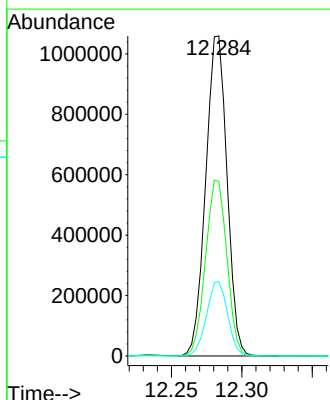
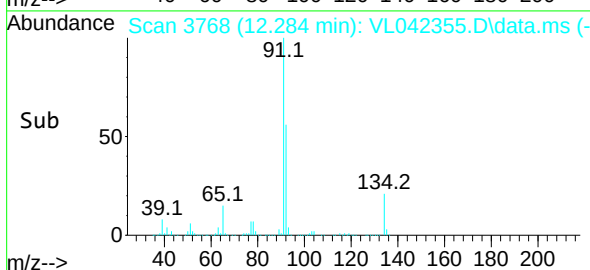
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

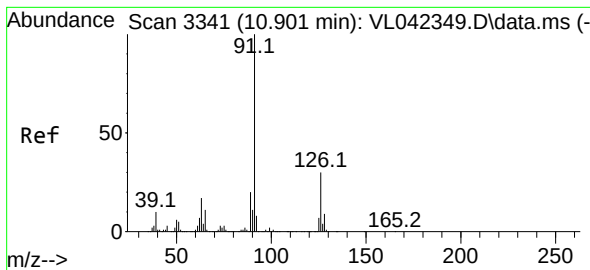


#70
n-Butylbenzene
Concen: 13.266 ppbv
RT: 12.284 min Scan# 3768
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54



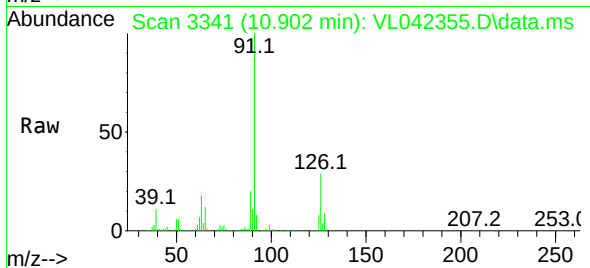
Tgt Ion: 91 Resp: 1117042
Ion Ratio Lower Upper
91 100
92 55.3 44.2 66.4
134 23.0 18.2 27.4





#71
2-Chlorotoluene
Concen: 14.131 ppbv
RT: 10.902 min Scan# 3341
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

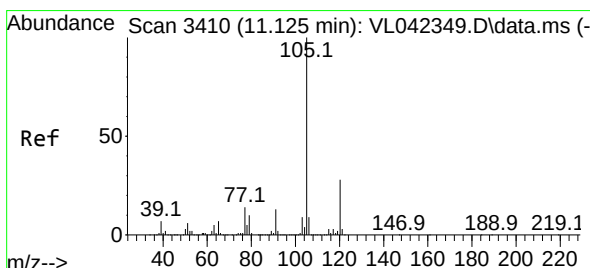
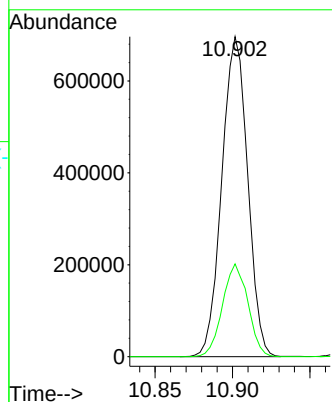
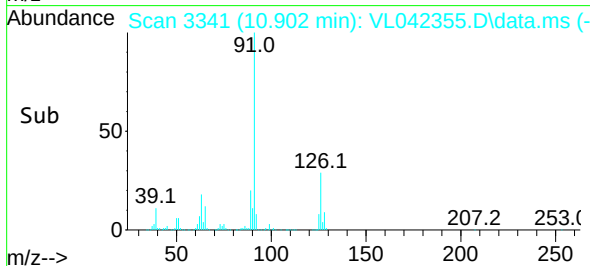
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



Tgt Ion: 91 Resp: 806728
Ion Ratio Lower Upper
91 100
126 28.4 11.4 45.4

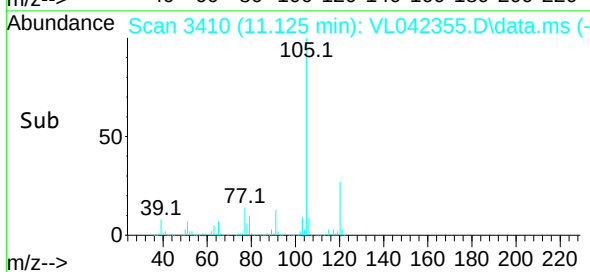
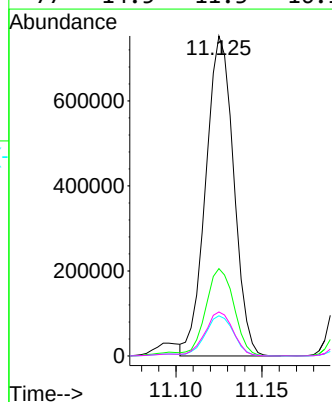
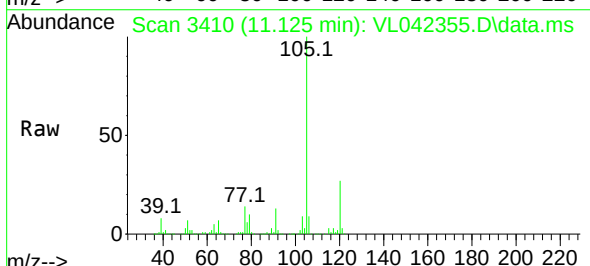
Manual Integrations
APPROVED

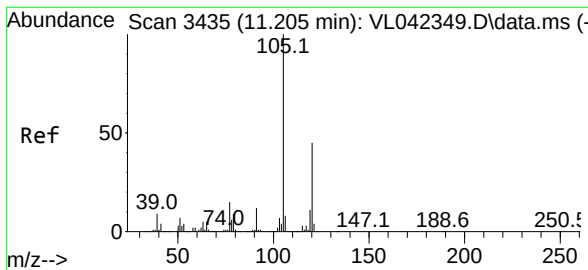
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#72
4-Ethyltoluene
Concen: 13.992 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

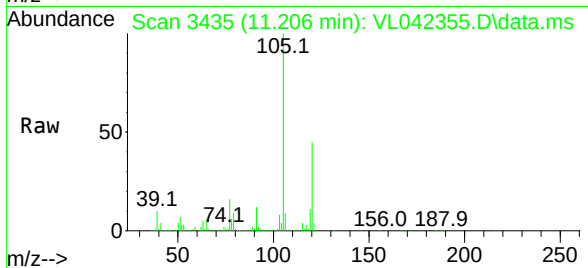
Tgt Ion:105 Resp: 848077
Ion Ratio Lower Upper
105 100
120 28.7 23.2 34.8
91 13.5 10.4 15.6
77 14.5 11.3 16.9





#73
1,3,5-Trimethylbenzene
Concen: 13.578 ppbv
RT: 11.206 min Scan# 3435
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

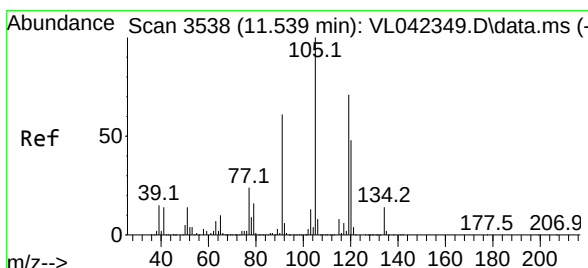
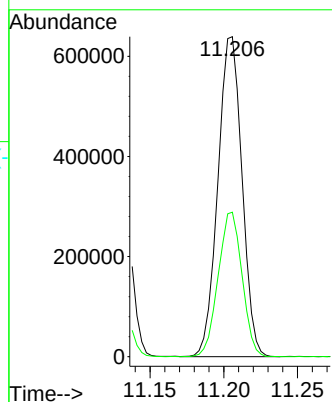
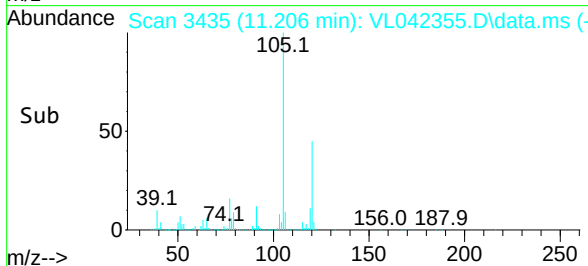
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



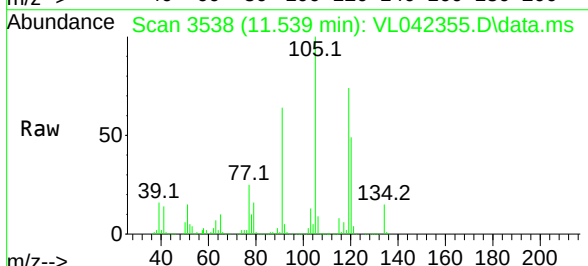
Tgt Ion:105 Resp: 726558
Ion Ratio Lower Upper
105 100
120 45.1 35.6 53.4

Manual Integrations
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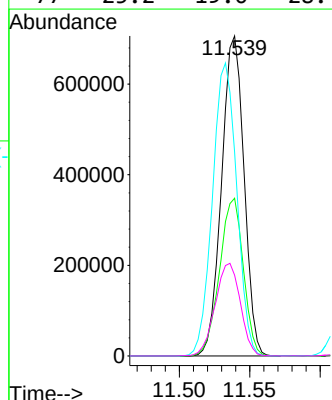
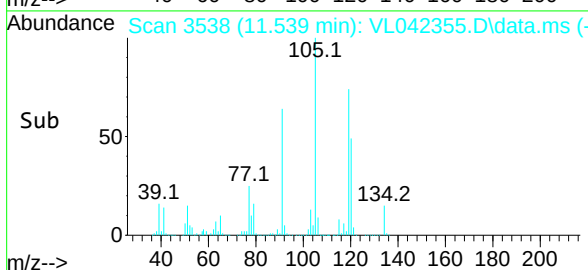
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

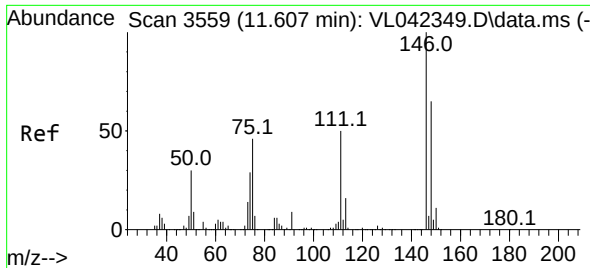


#74
1,2,4-Trimethylbenzene
Concen: 12.572 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54



Tgt Ion:105 Resp: 785772
Ion Ratio Lower Upper
105 100
120 49.3 38.1 57.1
91 63.7 48.8 73.2
77 25.2 19.0 28.4





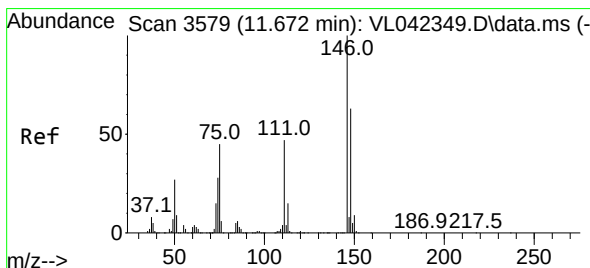
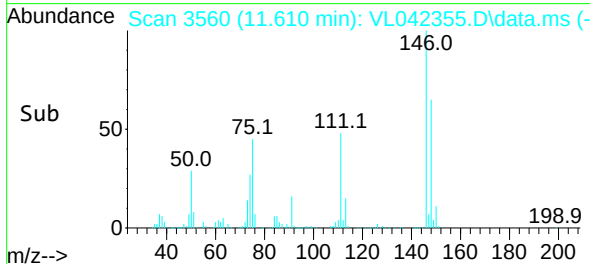
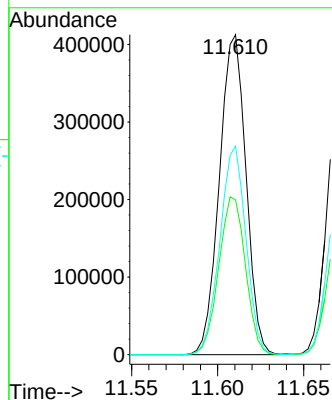
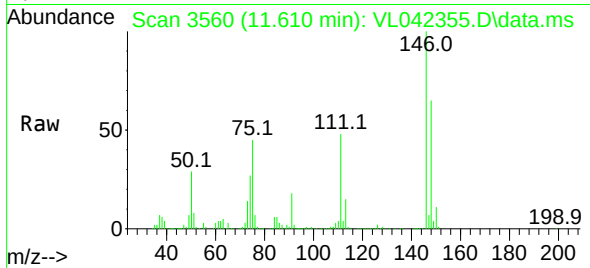
#75
1,3-Dichlorobenzene
Concen: 13.670 ppbv
RT: 11.610 min Scan# 3559
Delta R.T. 0.004 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion:146 Resp: 444086
Ion Ratio Lower Upper
146 100
111 49.6 24.3 72.8
148 63.9 31.6 94.8

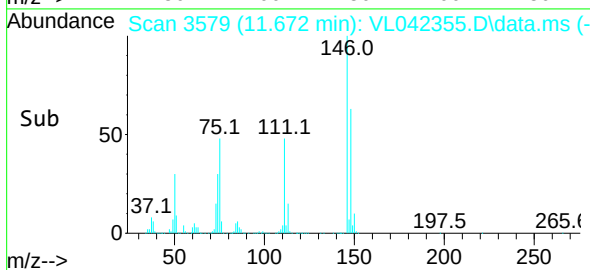
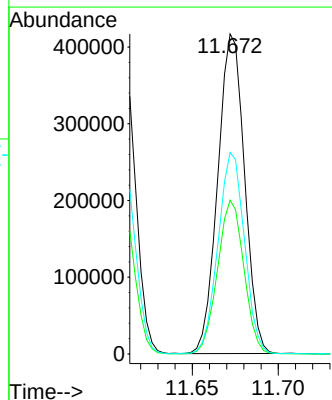
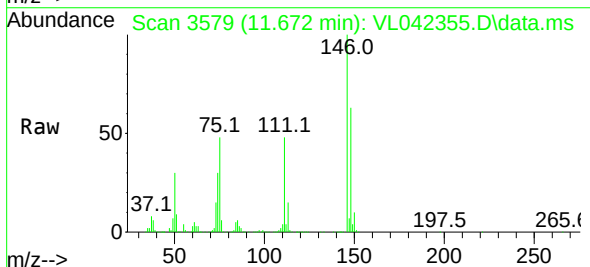
Manual Integrations
APPROVED

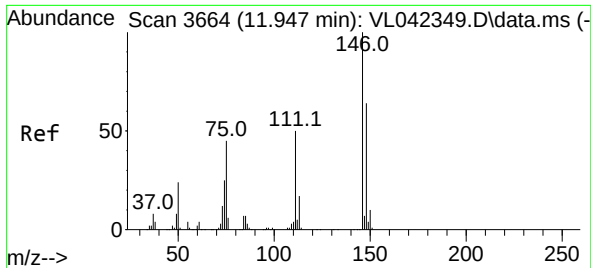
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#76
1,4-Dichlorobenzene
Concen: 13.802 ppbv
RT: 11.672 min Scan# 3579
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

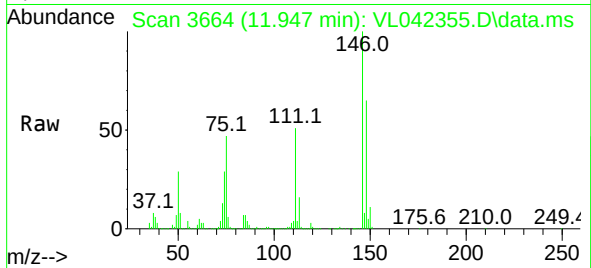
Tgt Ion:146 Resp: 450662
Ion Ratio Lower Upper
146 100
111 47.4 24.2 72.6
148 62.6 32.1 96.5





#77
1,2-Dichlorobenzene
Concen: 13.529 ppbv
RT: 11.947 min Scan# 3664
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

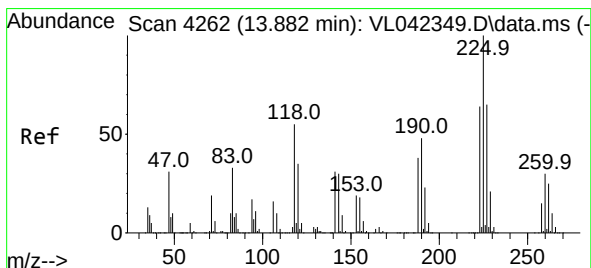
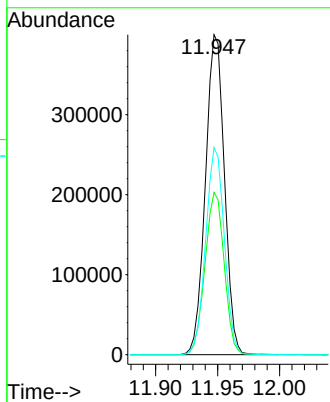
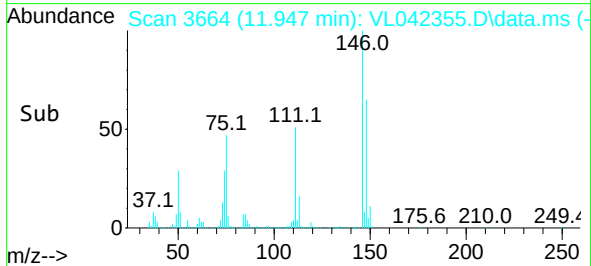
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



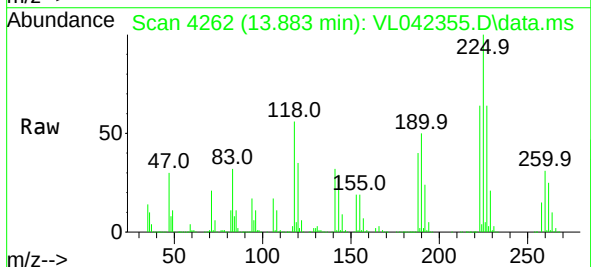
Tgt Ion:146 Resp: 427372
Ion Ratio Lower Upper
146 100
111 51.3 25.3 75.9
148 63.8 31.5 94.5

Manual Integrations
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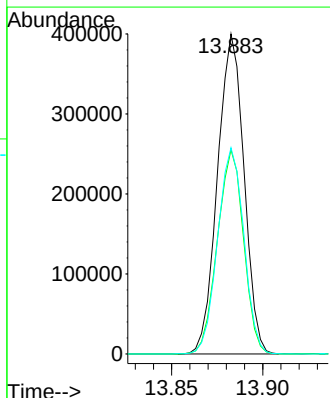
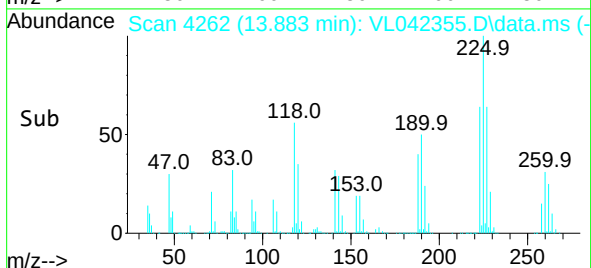
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

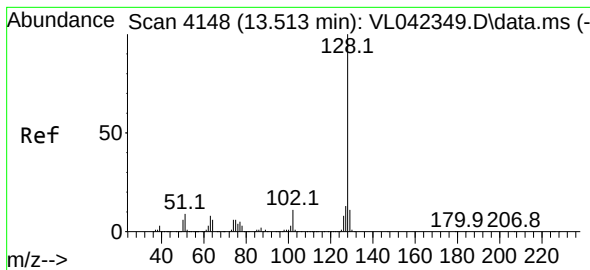


#78
Hexachloro-1,3-Butadiene
Concen: 12.679 ppbv
RT: 13.883 min Scan# 4262
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54



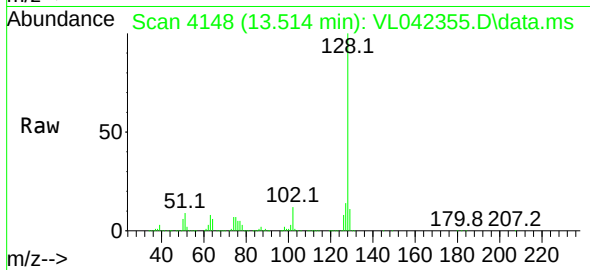
Tgt Ion:225 Resp: 404441
Ion Ratio Lower Upper
225 100
223 62.8 50.3 75.5
227 63.8 51.5 77.3





#79
Naphthalene
Concen: 12.632 ppbv
RT: 13.514 min Scan# 4148
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

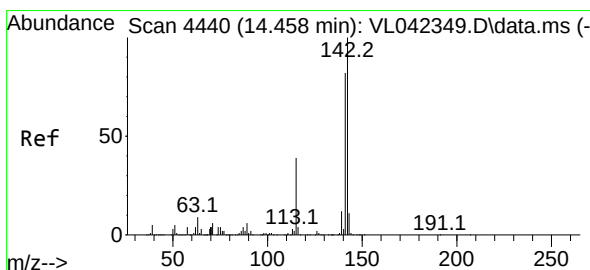
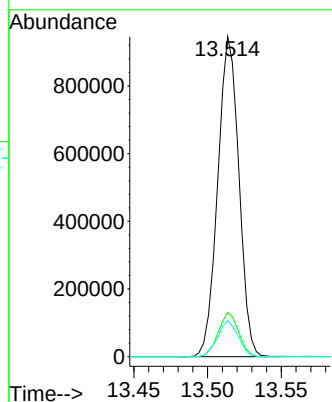
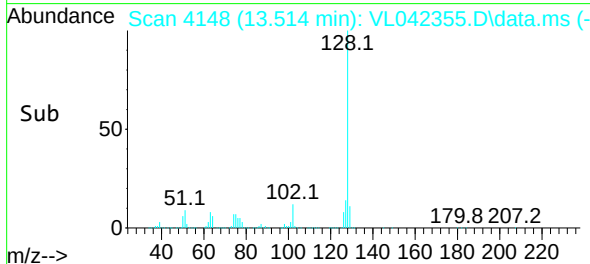
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



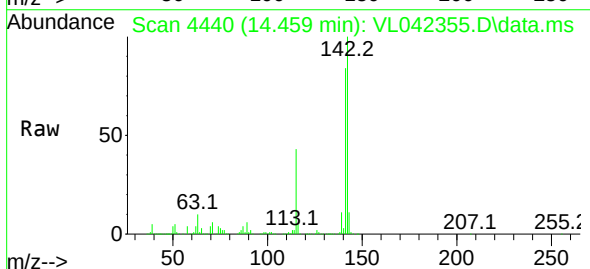
Tgt Ion:128 Resp: 944085
Ion Ratio Lower Upper
128 100
127 13.9 10.6 15.8
129 11.3 8.6 12.8

Manual Integrations
APPROVED

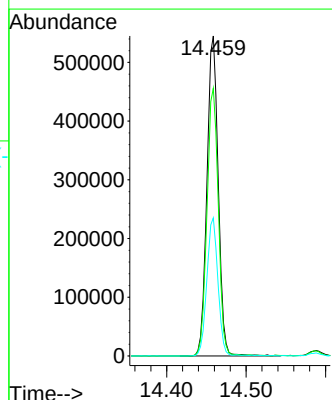
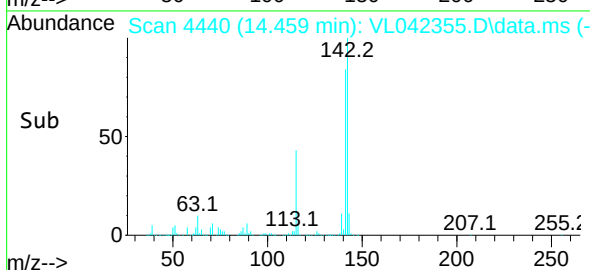
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

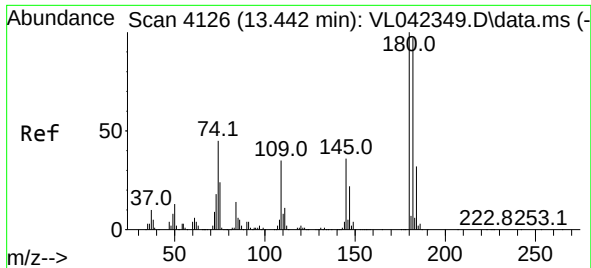


#80
Naphthalene,2-methyl-
Concen: 12.686 ppbv
RT: 14.459 min Scan# 4440
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54



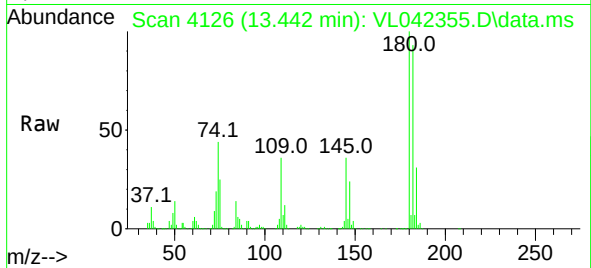
Tgt Ion:142 Resp: 540339
Ion Ratio Lower Upper
142 100
141 84.3 66.8 100.2
115 43.0 33.4 50.2





#81
 1,2,4-Trichlorobenzene
 Concen: 13.398 ppbv
 RT: 13.442 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54

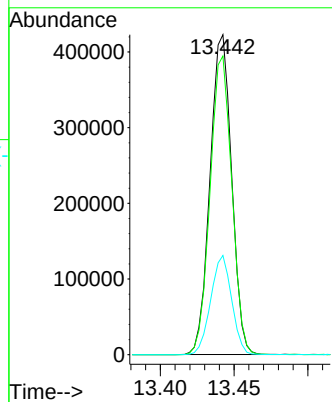
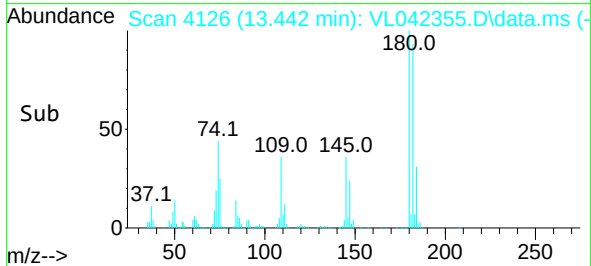
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



Tgt Ion:180 Resp: 42998
 Ion Ratio Lower Upper
 180 100
 182 94.3 76.8 115.2
 184 30.2 24.6 36.8

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042356.D
 Acq On : 17 Apr 2025 13:43
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL041725

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 02:15:19 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025

QLast Update : Fri Apr 18 02:14:00 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	113992	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.958	114	324528	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.881	117	305357	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 250149 9.969 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 99.700%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	197623	9.812	ppbv	100
3) Chlorodifluoromethane	1.476	51	191010	9.960	ppbv	99
4) Chloromethane	1.531	50	78080	9.796	ppbv	98
5) Vinyl Chloride	1.580	62	75628	8.717	ppbv	97
6) Bromomethane	1.667	94	35115	9.422	ppbv	84
7) Chloroethane	1.703	64	30158	9.612	ppbv	99
8) Dichlorotetrafluoroethane	1.554	85	172863	9.997	ppbv	98
9) Propene	1.482	41	84636	9.690	ppbv	95
10) Heptane	4.978	43	221840	9.041	ppbv	98
11) Trichlorofluoromethane	1.877	101	187827	9.807	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.140	101	148485	9.482	ppbv	100
13) Ethanol	1.722	45	4171	3.005	ppbv	97
14) Bromoethene	1.780	108	58320	9.880	ppbv	99
15) Acetone	1.835	43	158708	8.505	ppbv	100
16) 1,3-Butadiene	1.609	39	78804	8.829	ppbv	95
17) tert-Butyl alcohol	2.039	59	218954	9.468	ppbv	99
18) 1,1-Dichloroethene	2.033	96	67940	9.287	ppbv	94
19) Isopropyl Alcohol	1.887	45	96365	9.296	ppbv	95
20) Methylene Chloride	2.062	84	59203	8.101	ppbv	91
21) Allyl Chloride	2.094	41	120704	9.368	ppbv	98
22) trans-1,2-Dichloroethene	2.340	96	78070	9.373	ppbv	99
23) Vinyl Acetate	2.463	43	73373	9.714	ppbv	99
24) 1,1-Dichloroethane	2.408	63	155571	9.832	ppbv	100
25) Ethyl Acetate	2.835	43	449014	9.759	ppbv	99
26) Hexane	2.826	57	175752	9.439	ppbv	98
27) Carbon Disulfide	2.149	76	191117	9.587	ppbv	100
28) Methyl tert-Butyl Ether	2.441	73	115190	9.442	ppbv	94
29) Chloroform	2.848	83	260855	9.912	ppbv	98
30) Cyclohexane	3.855	84	148246	9.849	ppbv	99
31) cis-1,2-Dichloroethene	2.719	61	179993	10.167	ppbv	99
32) 1,1,1-Trichloroethane	3.369	97	276599	9.336	ppbv	98
34) 2-Butanone	2.557	43	248969	9.700	ppbv	99
35) Carbon Tetrachloride	3.764	117	271862	9.256	ppbv	98
36) Benzene	3.657	78	350545	10.014	ppbv	99
37) 1,2-Dichloroethane	3.217	62	211790	10.081	ppbv	99
38) Trichloroethene	4.551	130	139872	9.143	ppbv	96
39) 1,2-Dichloropropane	4.315	63	129239	9.908	ppbv	99
40) 1,4-Dioxane	4.583	88	61587	8.591	ppbv #	96
41) Tetrahydrofuran	3.052	42	141861	9.479	ppbv	99
42) Bromodichloromethane	4.489	83	296946	10.156	ppbv	96
43) Methyl Methacrylate	4.878	69	149209	9.458	ppbv	96
44) 2,2,4-Trimethylpentane	4.641	57	606376	10.030	ppbv	99
45) t-1,3-Dichloropropene	6.412	75	160750	9.975	ppbv	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042356.D
 Acq On : 17 Apr 2025 13:43
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL041725

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 02:15:19 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

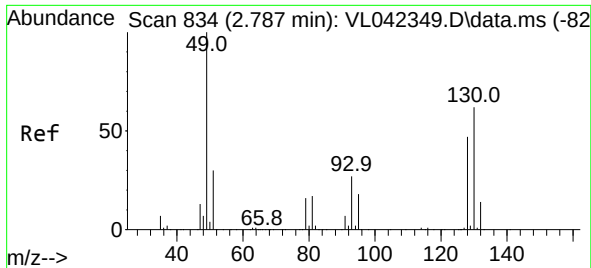
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Fri Apr 18 02:14:00 2025

Response via : Initial Calibration

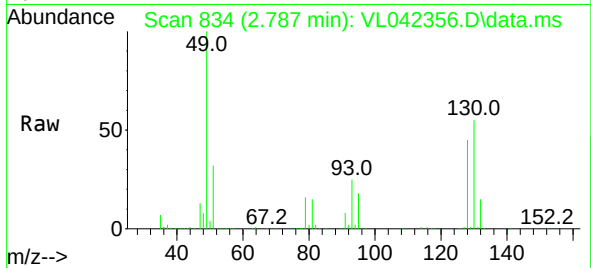
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.599	75	200144	10.148	ppbv	88
47) 1,1,2-Trichloroethane	6.583	97	135575	10.202	ppbv	95
48) Dibromochloromethane	7.389	129	237206	10.103	ppbv	100
49) Bromoform	9.483	173	205630	10.016	ppbv	99
50) 4-Methyl-2-Pentanone	5.748	43	376145	8.819	ppbv	99
51) 2-Hexanone	7.435	43	310521	8.118	ppbv #	99
52) Tetrachloroethene	8.224	164	119424	8.827	ppbv	94
53) Toluene	6.933	91	419462	9.986	ppbv	99
54) 1,2-Dibromoethane	7.652	107	186231	9.792	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.927	131	182712	9.886	ppbv	97
57) Chlorobenzene	8.920	112	304533	9.589	ppbv	96
58) Ethyl Benzene	9.354	91	583515	9.645	ppbv	99
59) m/p-Xylene	9.532	91	932801m	19.139	ppbv	
60) o-Xylene	9.966	91	464522	9.465	ppbv	99
61) Styrene	9.872	104	229869	9.813	ppbv	98
62) Isopropylbenzene	10.539	105	685965	9.520	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.962	83	279007	8.773	ppbv	100
64) n-propylbenzene	10.992	120	172654	9.533	ppbv	99
65) tert-Butylbenzene	11.532	119	609500	9.203	ppbv	93
66) Benzyl Chloride	11.613	91	63051	8.664	ppbv	95
67) sec-Butylbenzene	11.769	105	853807	9.268	ppbv	99
69) p-Isopropyltoluene	11.927	119	737861	9.220	ppbv	99
70) n-Butylbenzene	12.283	91	771461	9.255	ppbv	100
71) 2-Chlorotoluene	10.901	91	543794	9.622	ppbv	98
72) 4-Ethyltoluene	11.124	105	563136	9.385	ppbv	100
73) 1,3,5-Trimethylbenzene	11.205	105	486583	9.186	ppbv	99
74) 1,2,4-Trimethylbenzene	11.539	105	531576	8.592	ppbv	97
75) 1,3-Dichlorobenzene	11.610	146	297157	9.240	ppbv	99
76) 1,4-Dichlorobenzene	11.671	146	297697	9.210	ppbv	98
77) 1,2-Dichlorobenzene	11.950	146	289284	9.251	ppbv	100
78) Hexachloro-1,3-Butadiene	13.882	225	276960	8.771	ppbv	100
79) Naphthalene	13.513	128	647349	8.750	ppbv	99
80) Naphthalene,2-methyl-	14.458	142	350259	8.307	ppbv	99
81) 1,2,4-Trichlorobenzene	13.442	180	290260	9.136	ppbv	99

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 834
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

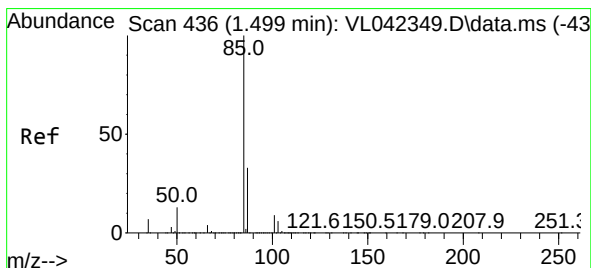
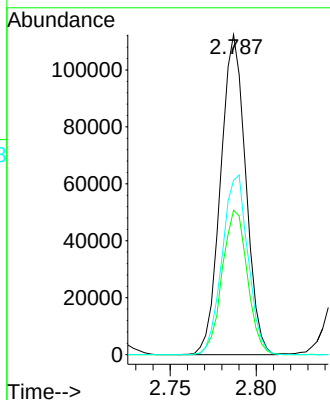
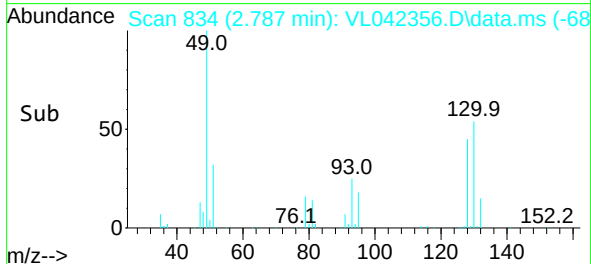
Instrument : MSVOA_L
ClientSampleId : ICVVL041725



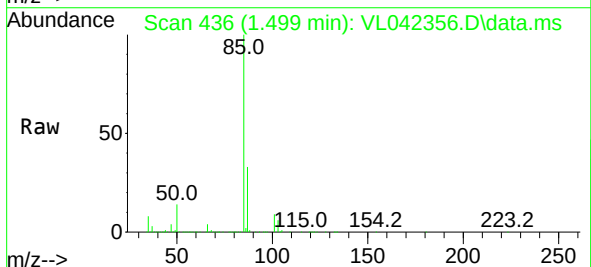
Tgt Ion: 49 Resp: 113992
Ion Ratio Lower Upper
49 100
128 45.5 22.8 68.4
130 57.8 29.3 88.0

Manual Integrations
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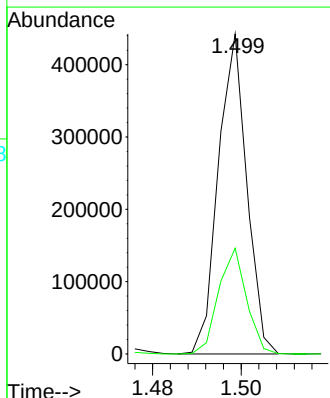
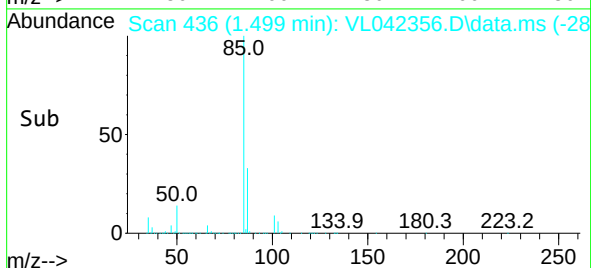
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

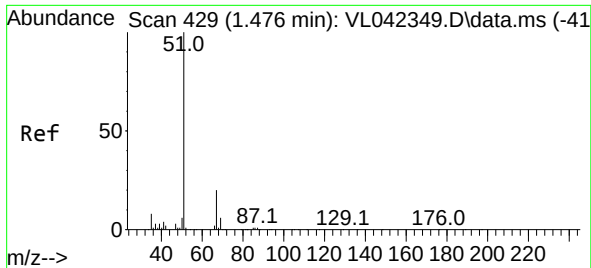


#2
Dichlorodifluoromethane
Concen: 9.812 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43



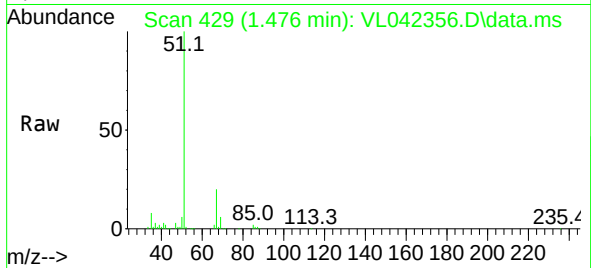
Tgt Ion: 85 Resp: 197623
Ion Ratio Lower Upper
85 100
87 33.1 26.6 39.8





#3
Chlorodifluoromethane
Concen: 9.960 ppbv
RT: 1.476 min Scan# 429
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

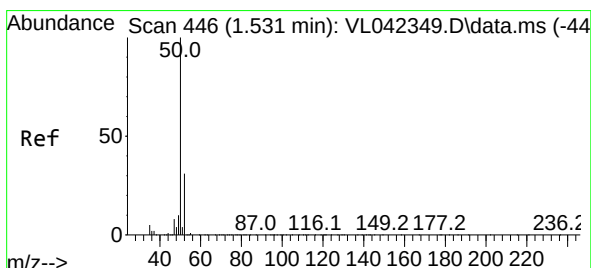
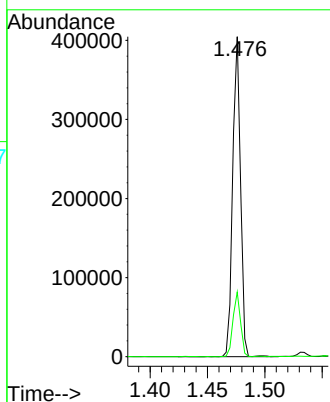
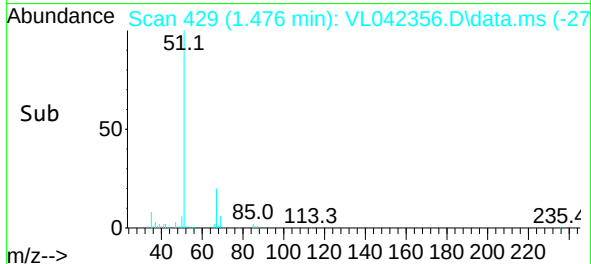
Instrument : MSVOA_L
ClientSampleId : ICVVL041725



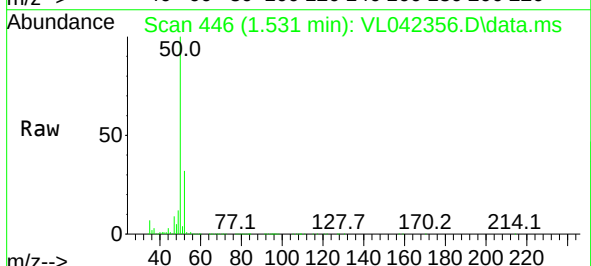
Tgt Ion: 51 Resp: 191010
Ion Ratio Lower Upper
51 100
67 19.6 16.2 24.4

Manual Integrations
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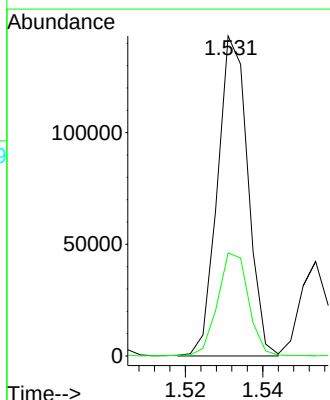
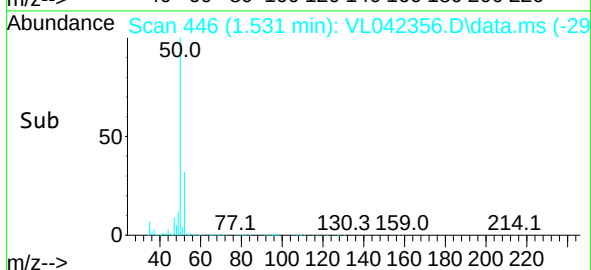
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

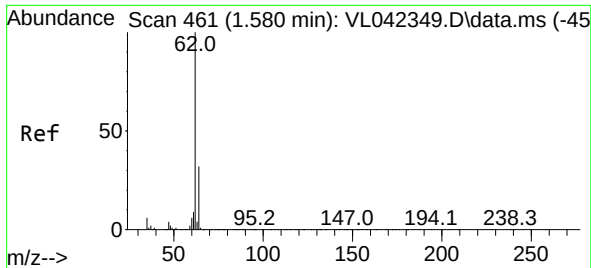


#4
Chloromethane
Concen: 9.796 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43



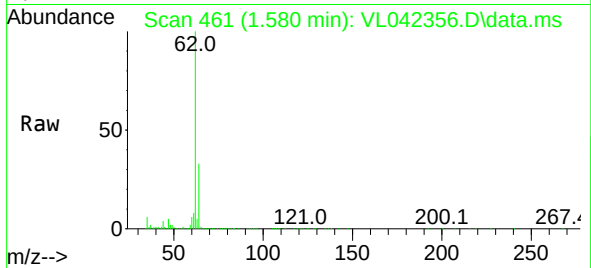
Tgt Ion: 50 Resp: 78080
Ion Ratio Lower Upper
50 100
52 32.0 24.7 37.1





#5
 Vinyl Chloride
 Concen: 8.717 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. -0.000 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

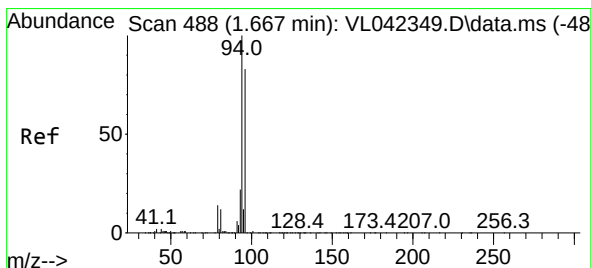
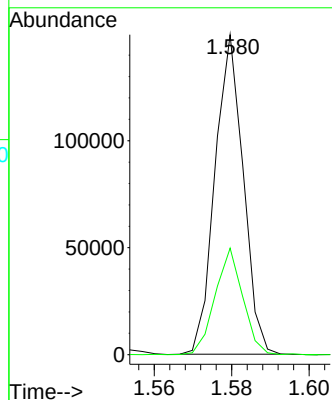
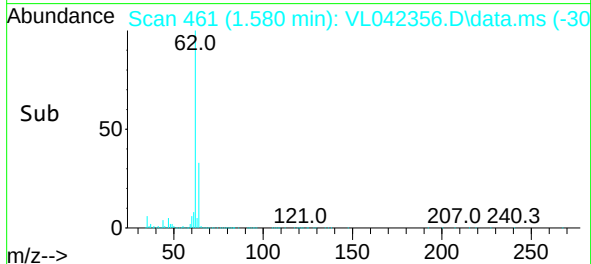
Instrument : MSVOA_L
 ClientSampleId : ICVVL041725



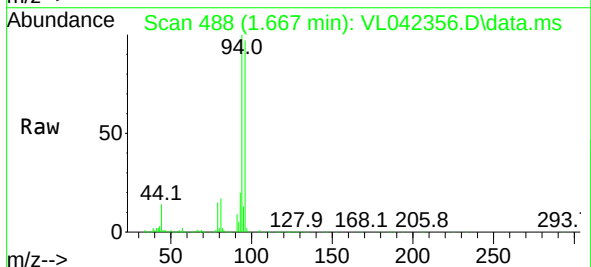
Tgt Ion: 62 Resp: 75628
 Ion Ratio Lower Upper
 62 100
 64 33.3 25.4 38.0

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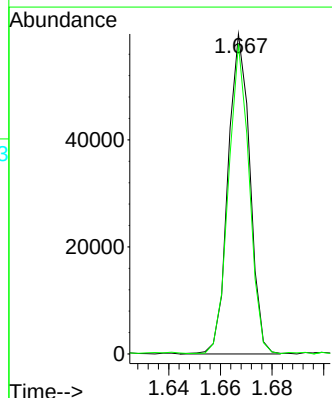
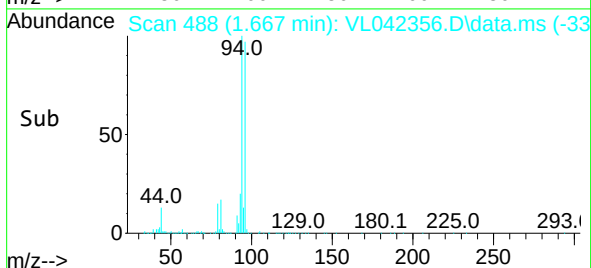
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

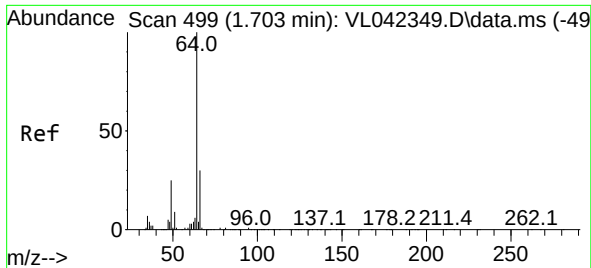


#6
 Bromomethane
 Concen: 9.422 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. -0.000 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43



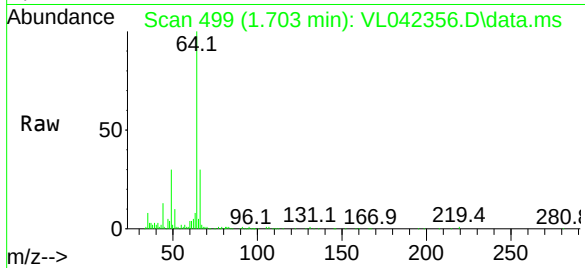
Tgt Ion: 94 Resp: 35115
 Ion Ratio Lower Upper
 94 100
 96 96.8 66.2 99.2





#7
Chloroethane
Concen: 9.612 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

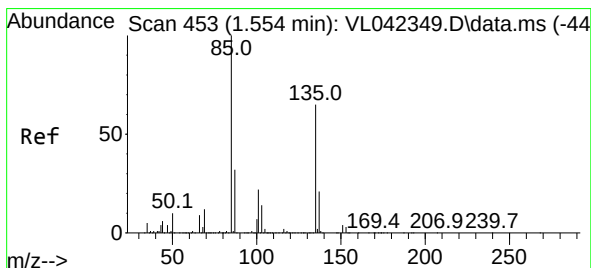
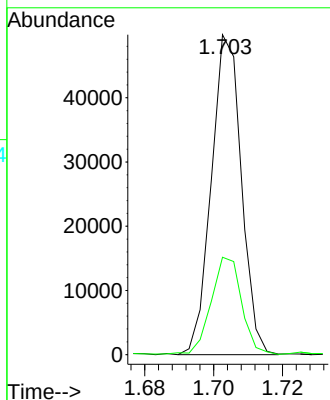
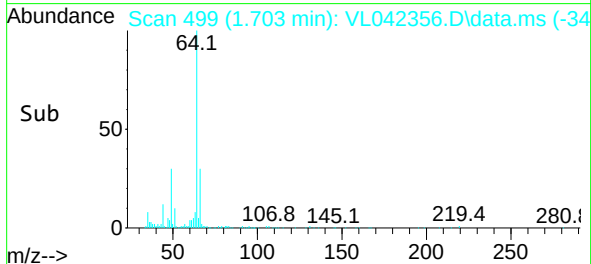
Instrument : MSVOA_L
ClientSampleId : ICVVL041725



Tgt Ion: 64 Resp: 30158
Ion Ratio Lower Upper
64 100
66 30.4 24.6 37.0

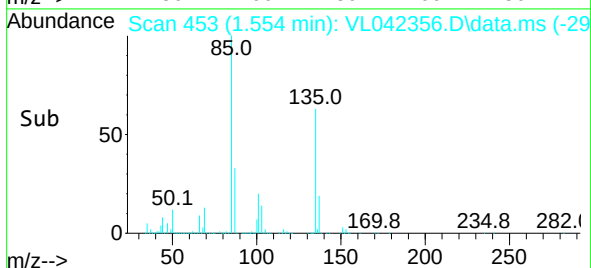
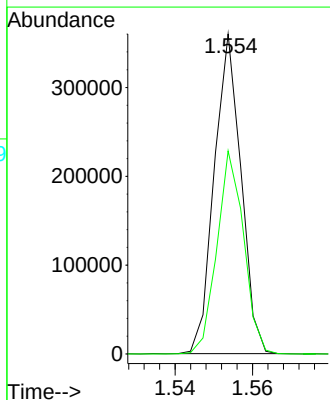
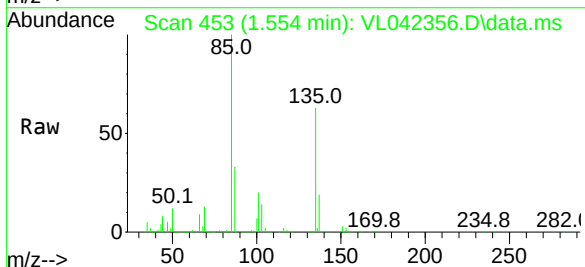
Manual Integrations
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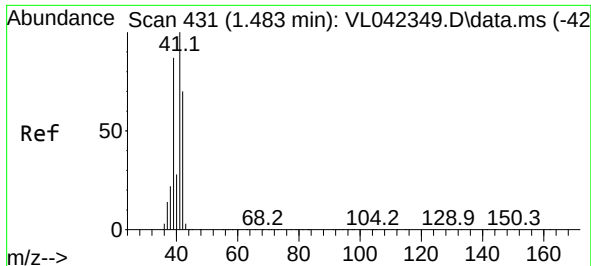
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#8
Dichlorotetrafluoroethane
Concen: 9.997 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 85 Resp: 172863
Ion Ratio Lower Upper
85 100
135 63.5 52.2 78.2





#9

Propene

Concen: 9.690 ppbv

RT: 1.482 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL042356.D

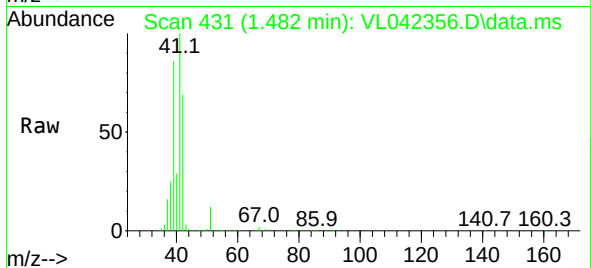
Acq: 17 Apr 2025 13:43

Instrument :

MSVOA_L

ClientSampleId :

ICVVL041725



Tgt Ion: 41 Resp: 84630

Ion Ratio Lower Upper

41 100

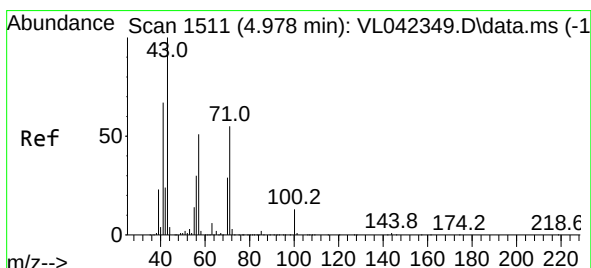
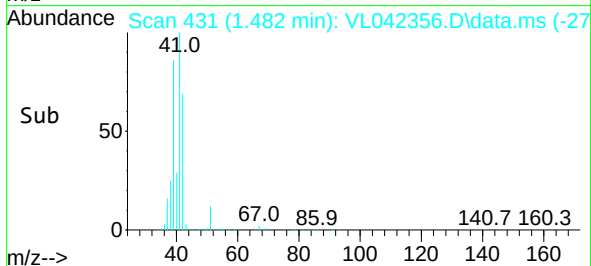
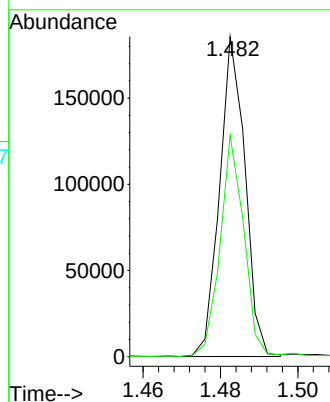
42 65.8 56.2 84.4

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#10

Heptane

Concen: 9.041 ppbv

RT: 4.978 min Scan# 1511

Delta R.T. -0.000 min

Lab File: VL042356.D

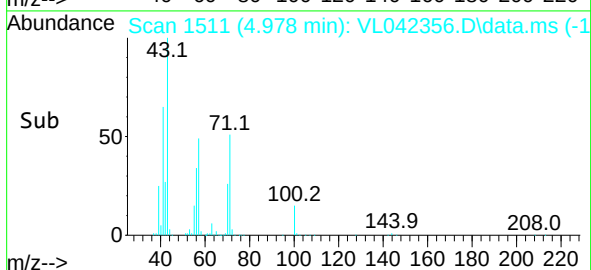
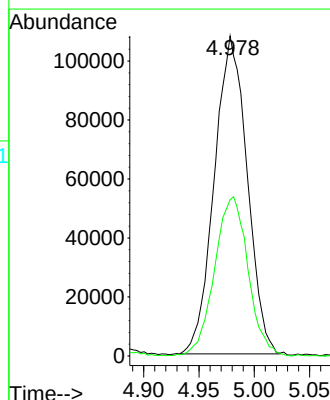
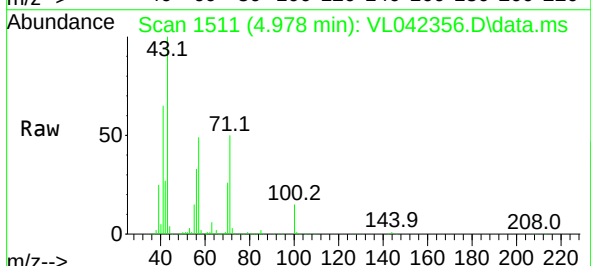
Acq: 17 Apr 2025 13:43

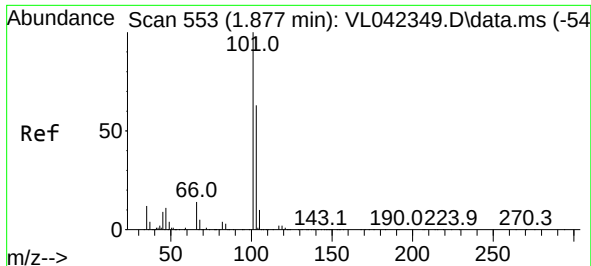
Tgt Ion: 43 Resp: 221840

Ion Ratio Lower Upper

43 100

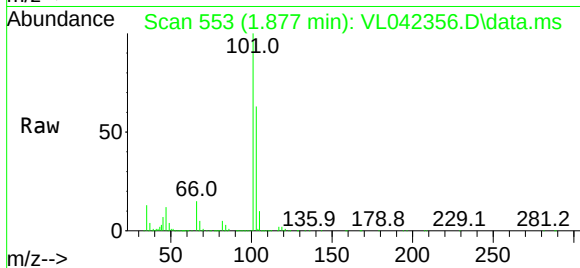
57 51.4 39.9 59.9





#11
Trichlorofluoromethane
Concen: 9.807 ppbv
RT: 1.877 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

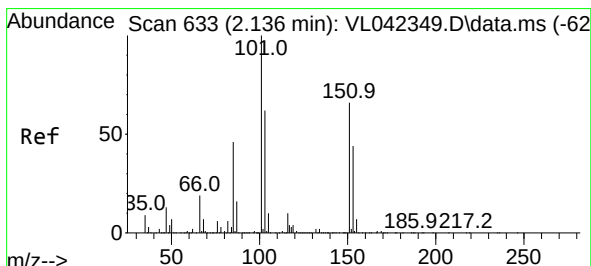
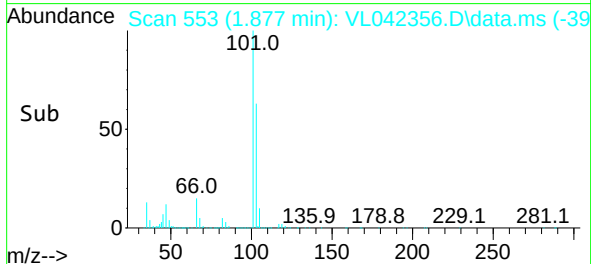
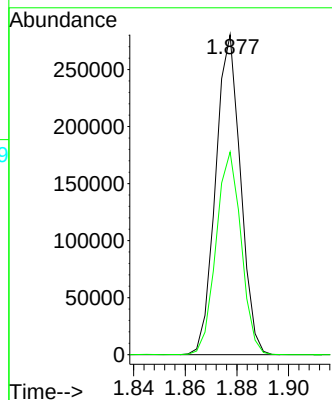
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725



Tgt Ion:101 Resp: 18782
Ion Ratio Lower Upper
101 100
103 63.3 50.1 75.1

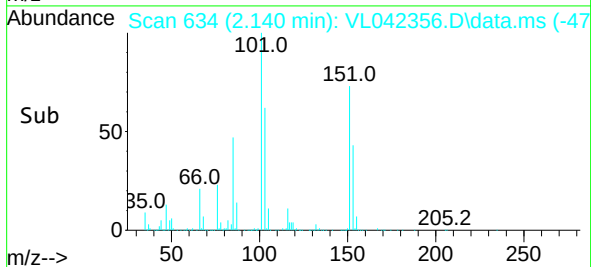
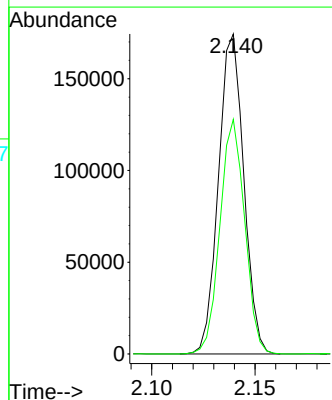
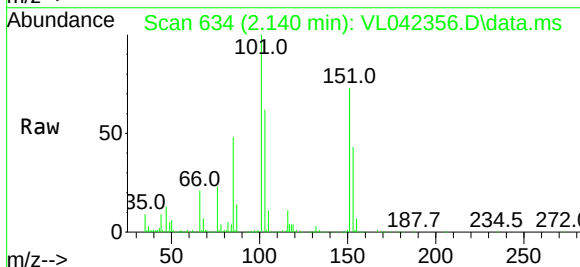
Manual Integrations APPROVED

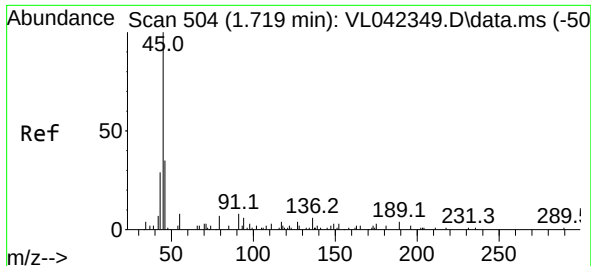
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.482 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:101 Resp: 148485
Ion Ratio Lower Upper
101 100
151 71.7 57.0 85.6





#13

Ethanol

Concen: 3.005 ppbv

RT: 1.722 min Scan# 504

Delta R.T. 0.003 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

Instrument :

MSVOA_L

ClientSampleId :

ICVVL041725

Tgt Ion: 45 Resp: 417

Ion Ratio Lower Upper

45 100

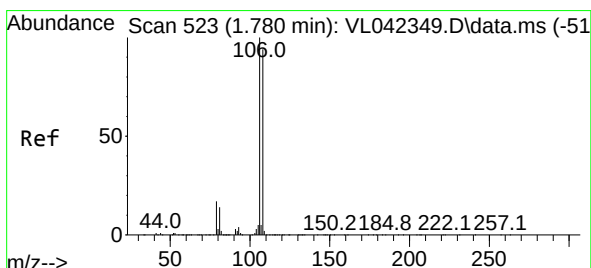
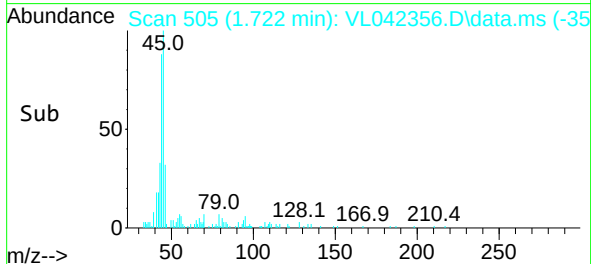
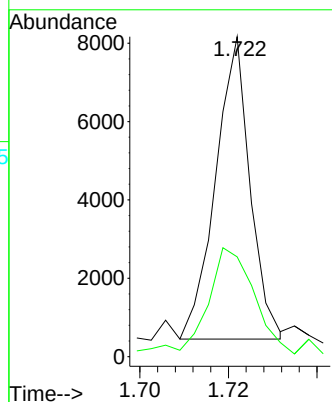
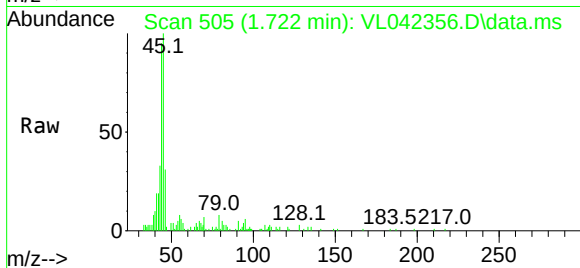
46 57.0 21.9 87.7

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#14

Bromoethene

Concen: 9.880 ppbv

RT: 1.780 min Scan# 523

Delta R.T. -0.000 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

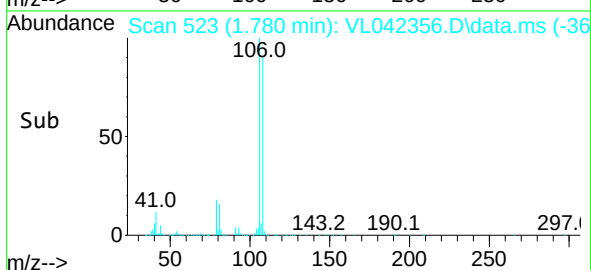
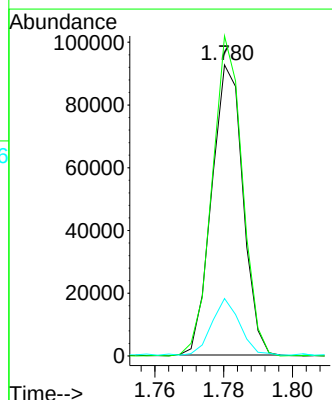
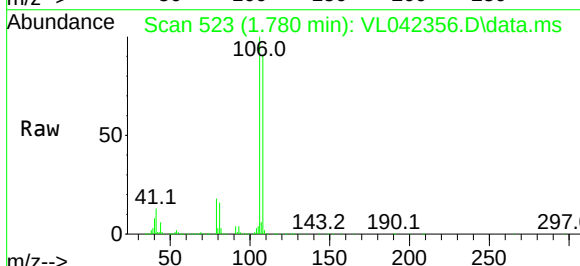
Tgt Ion:108 Resp: 58320

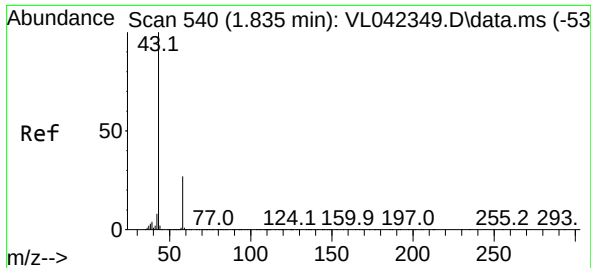
Ion Ratio Lower Upper

108 100

106 107.1 85.9 128.9

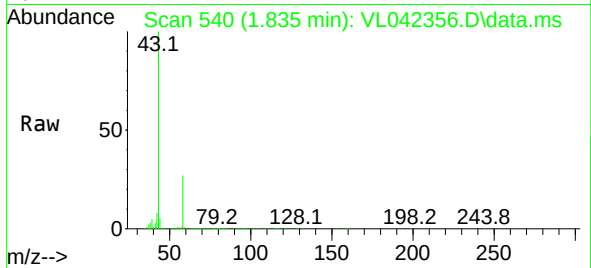
79 18.4 13.9 20.9





#15
Acetone
Concen: 8.505 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

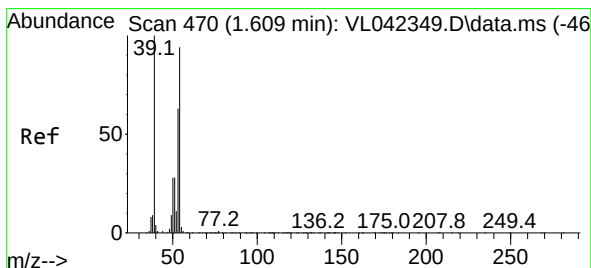
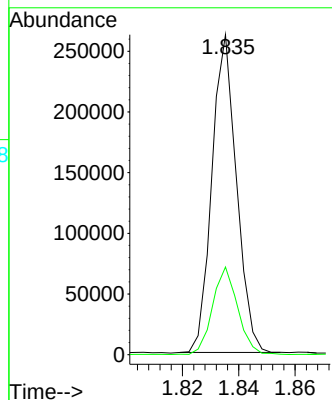
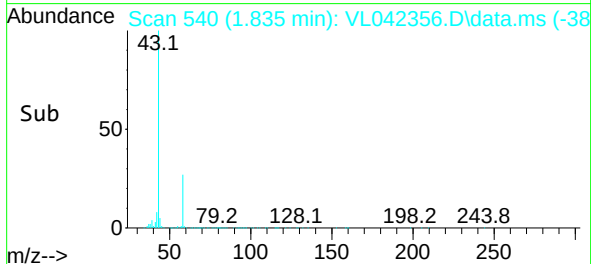
Instrument : MSVOA_L
ClientSampleId : ICVVL041725



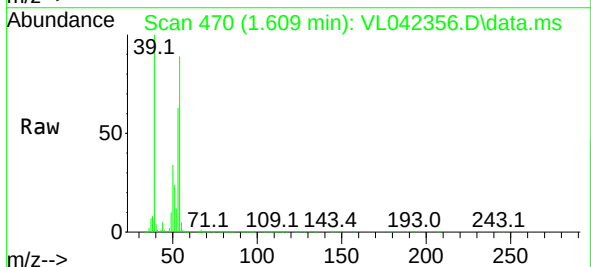
Tgt Ion: 43 Resp: 158708
Ion Ratio Lower Upper
43 100
58 28.0 22.4 33.6

Manual Integrations
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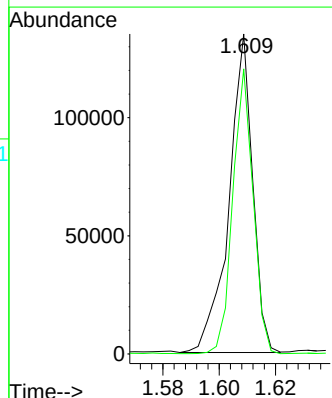
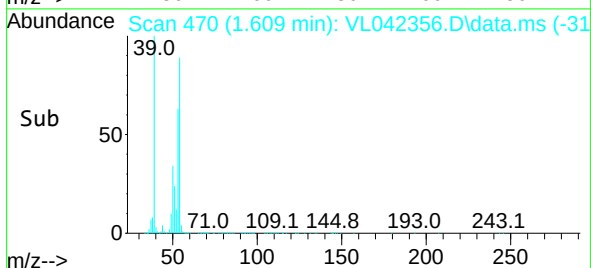
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

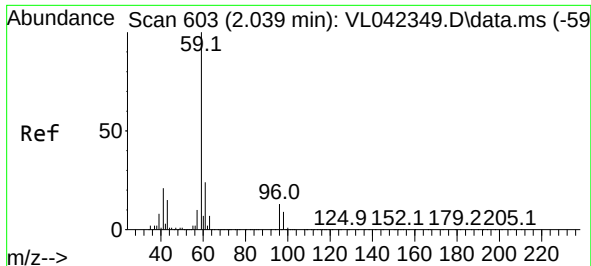


#16
1,3-Butadiene
Concen: 8.829 ppbv
RT: 1.609 min Scan# 470
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43



Tgt Ion: 39 Resp: 78804
Ion Ratio Lower Upper
39 100
54 77.1 64.9 97.3





#17

tert-Butyl alcohol

Concen: 9.468 ppbv

RT: 2.039 min Scan# 603

Delta R.T. -0.000 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

Instrument :

MSVOA_L

ClientSampleId :

ICVVL041725

Tgt Ion: 59 Resp: 218954

Ion Ratio Lower Upper

59 100

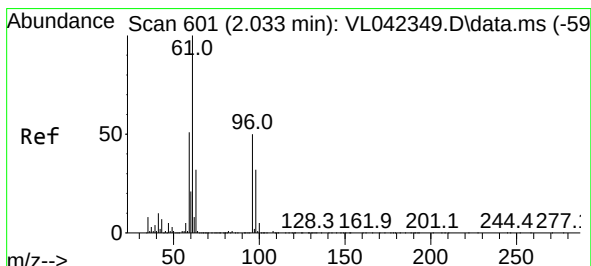
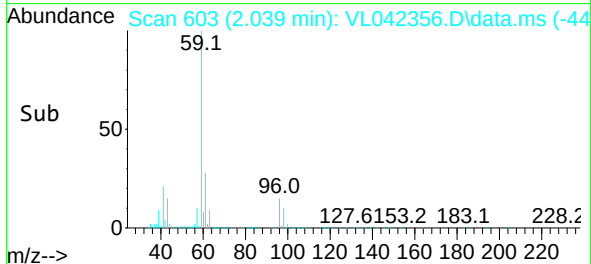
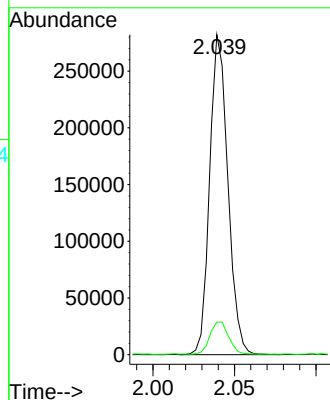
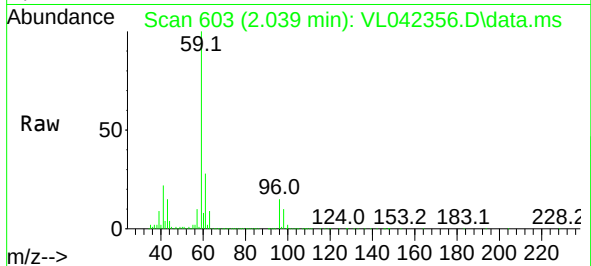
57 10.6 8.7 13.1

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#18

1,1-Dichloroethene

Concen: 9.287 ppbv

RT: 2.033 min Scan# 601

Delta R.T. -0.000 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

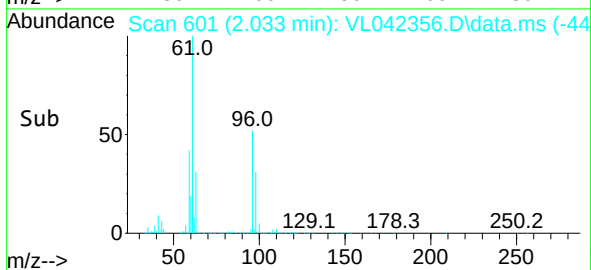
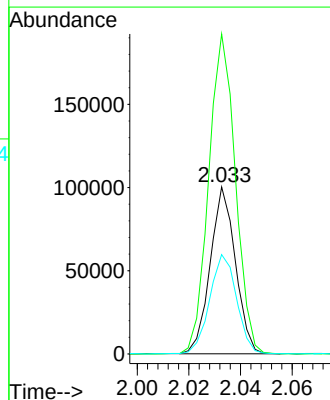
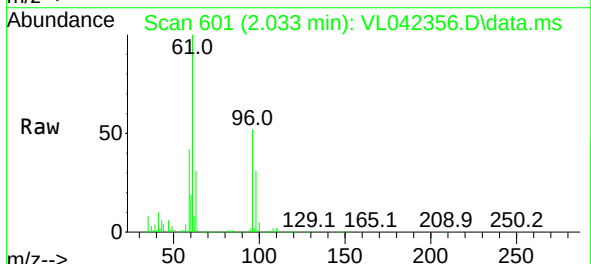
Tgt Ion: 96 Resp: 67940

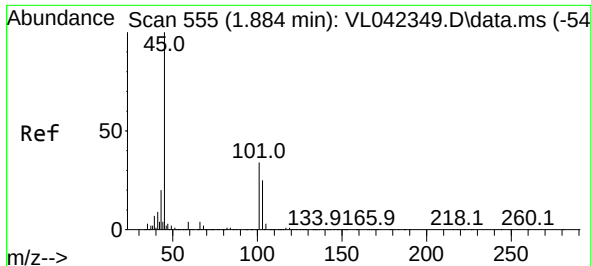
Ion Ratio Lower Upper

96 100

61 191.6 160.2 240.2

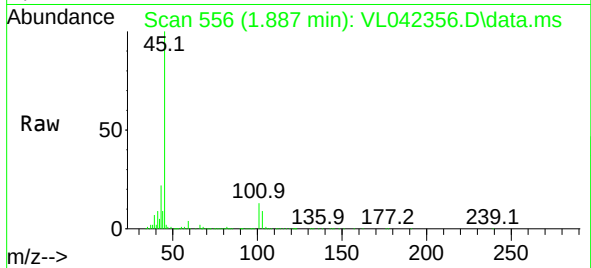
98 59.4 51.0 76.4





#19
Isopropyl Alcohol
Concen: 9.296 ppbv
RT: 1.887 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

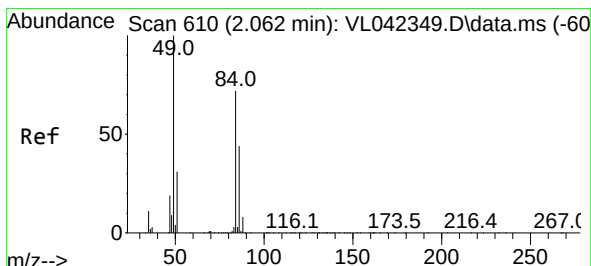
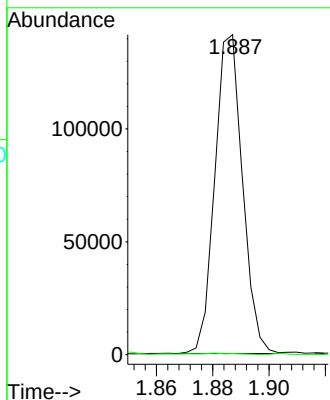
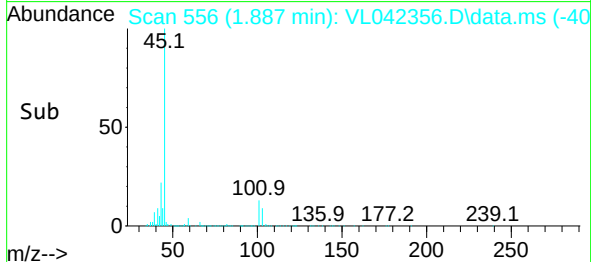
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725



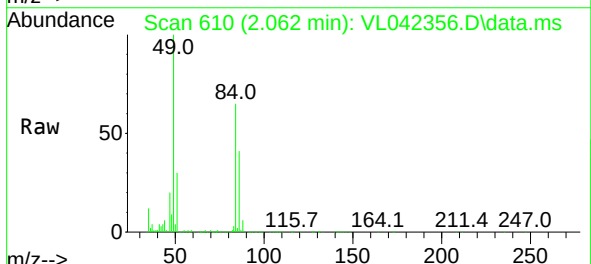
Tgt Ion: 45 Resp: 9636
Ion Ratio Lower Upper
45 100
58 46.1 34.5 51.7

Manual Integrations
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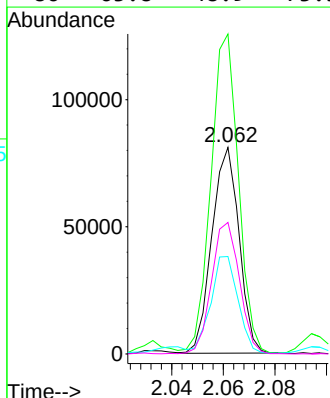
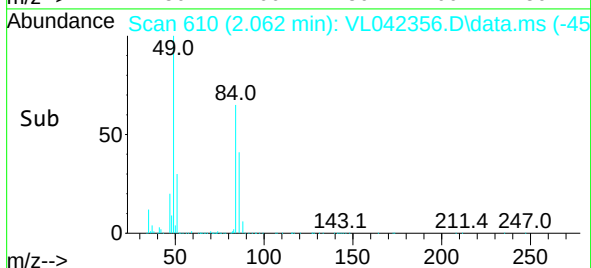
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

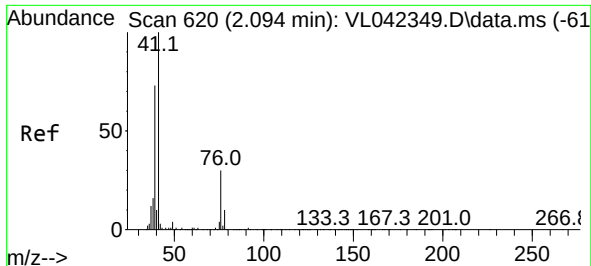


#20
Methylene Chloride
Concen: 8.101 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43



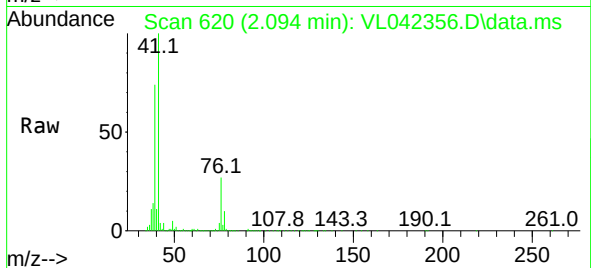
Tgt Ion: 84 Resp: 59203
Ion Ratio Lower Upper
84 100
49 155.3 111.6 167.4
51 47.0 35.1 52.7
86 63.8 48.9 73.3





#21
 Allyl Chloride
 Concen: 9.368 ppbv
 RT: 2.094 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

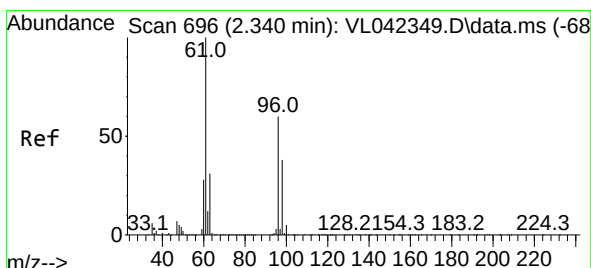
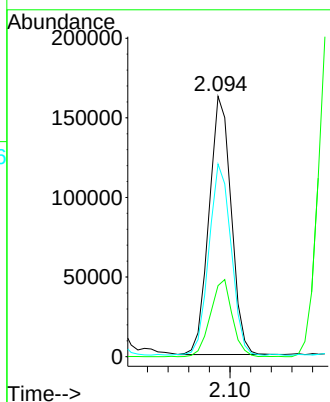
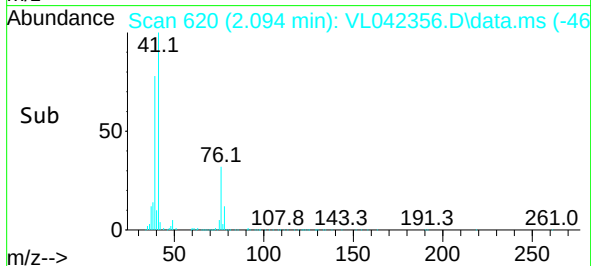
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL041725



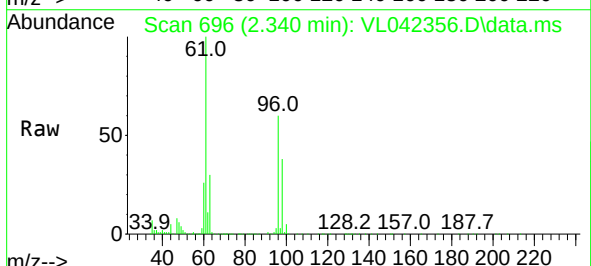
Tgt Ion: 41 Resp: 120704
 Ion Ratio Lower Upper
 41 100
 76 29.5 24.8 37.2
 39 74.5 60.6 90.8

Manual Integrations
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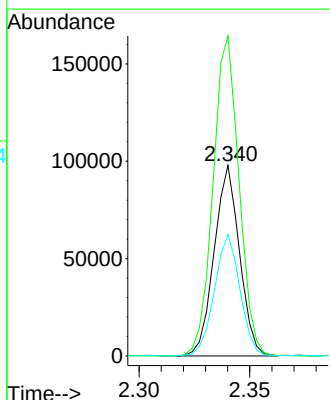
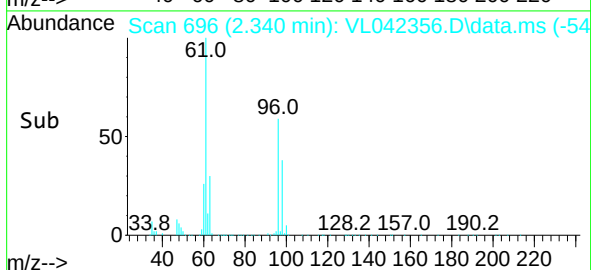
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

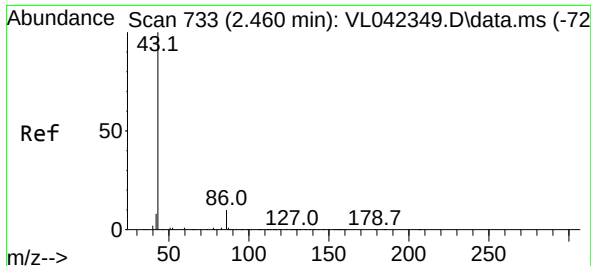


#22
 trans-1,2-Dichloroethene
 Concen: 9.373 ppbv
 RT: 2.340 min Scan# 696
 Delta R.T. -0.000 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43



Tgt Ion: 96 Resp: 78070
 Ion Ratio Lower Upper
 96 100
 61 167.7 133.7 200.5
 98 63.5 50.3 75.5





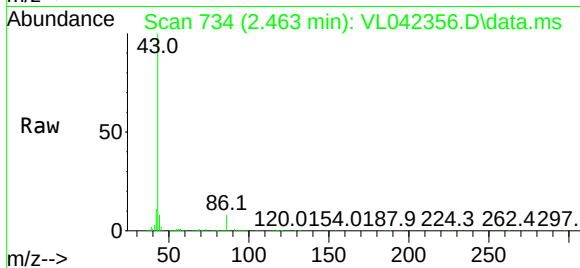
#23
 Vinyl Acetate
 Concen: 9.714 ppbv
 RT: 2.463 min Scan# 714
 Delta R.T. 0.003 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

Instrument :

MSVOA_L

ClientSampleId :

ICVVL041725

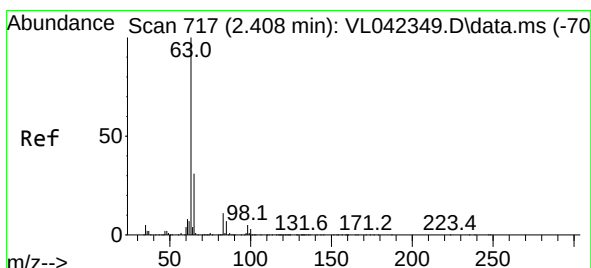
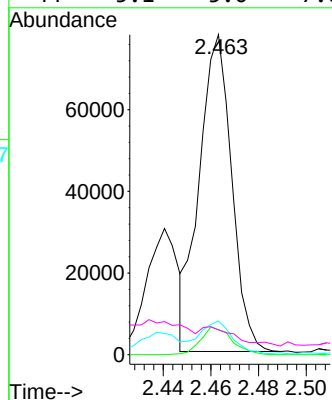
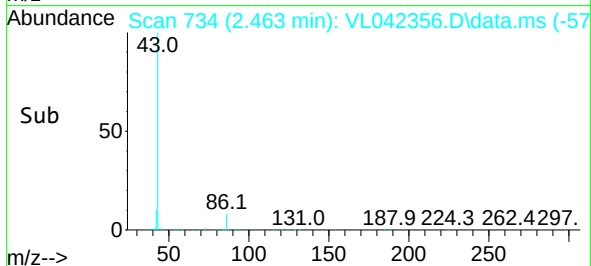


Tgt Ion: 43 Resp: 7337
 Ion Ratio Lower Upper
 43 100
 86 8.0 6.5 9.7
 42 10.0 7.8 11.8
 44 5.1 5.0 7.6

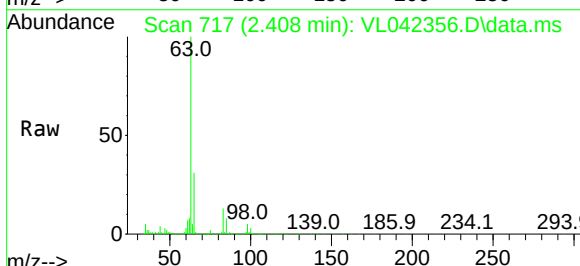
Manual Integrations

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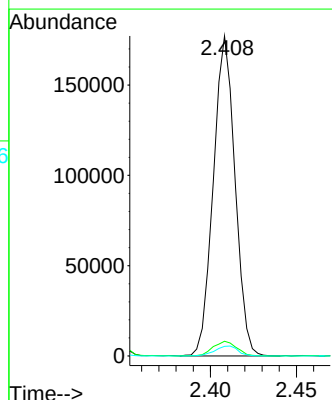
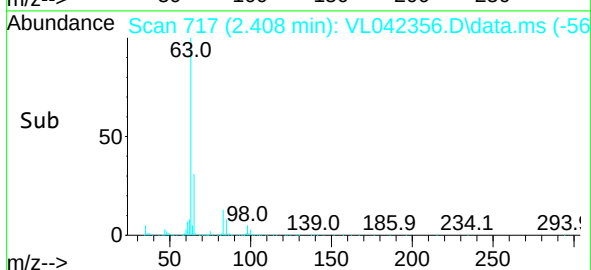
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

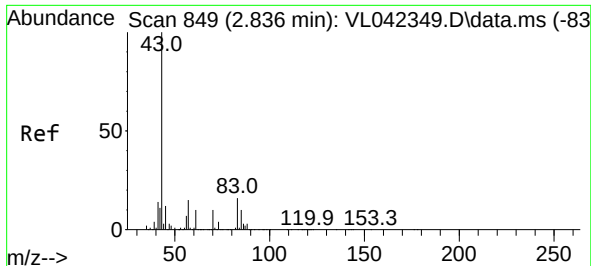


#24
 1,1-Dichloroethane
 Concen: 9.832 ppbv
 RT: 2.408 min Scan# 717
 Delta R.T. -0.000 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43



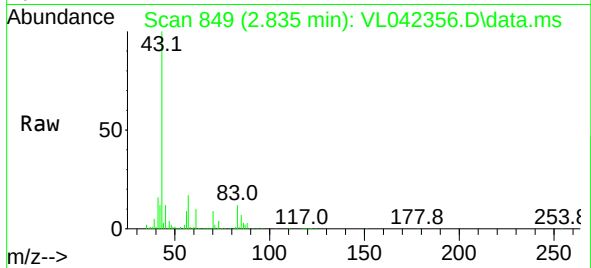
Tgt Ion: 63 Resp: 155571
 Ion Ratio Lower Upper
 63 100
 98 4.6 2.3 6.8
 100 3.0 1.6 4.8





#25
Ethyl Acetate
Concen: 9.759 ppbv
RT: 2.835 min Scan# 849
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

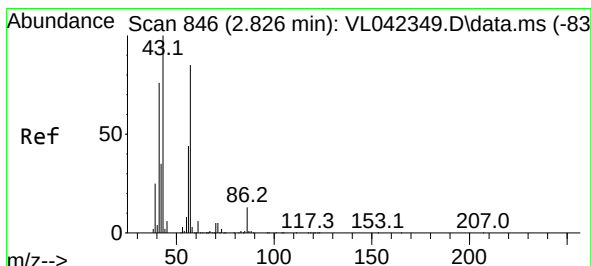
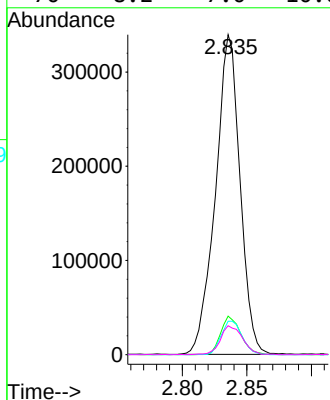
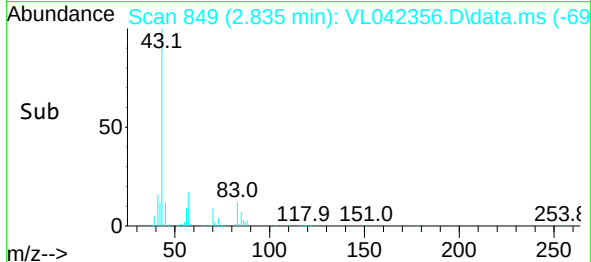
Instrument : MSVOA_L
ClientSampleId : ICVVL041725



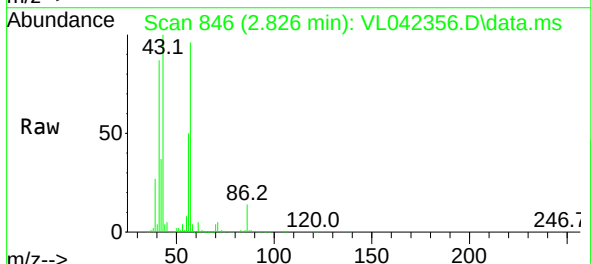
Tgt Ion: 43 Resp: 449014
Ion Ratio Lower Upper
43 100
45 9.9 8.3 12.5
61 9.0 7.3 10.9
70 8.2 7.0 10.6

Manual Integrations
APPROVED

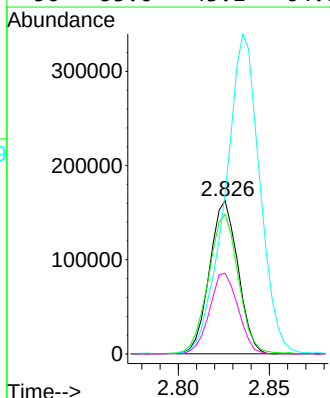
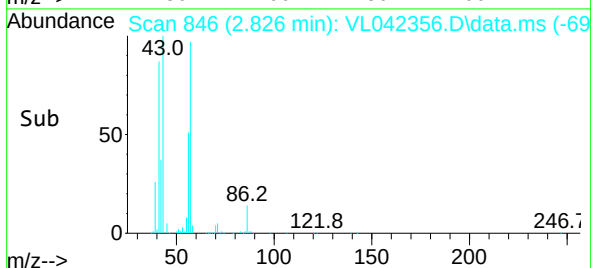
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

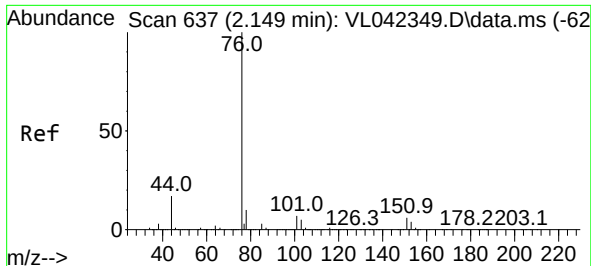


#26
Hexane
Concen: 9.439 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43



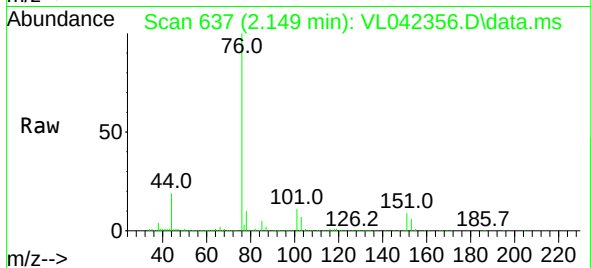
Tgt Ion: 57 Resp: 175752
Ion Ratio Lower Upper
57 100
41 96.6 77.9 116.9
43 256.0 208.4 312.6
56 53.6 43.1 64.7





#27
Carbon Disulfide
Concen: 9.587 ppbv
RT: 2.149 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

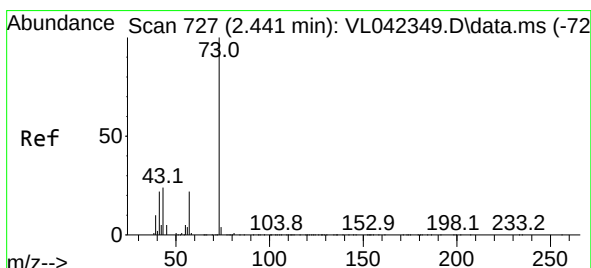
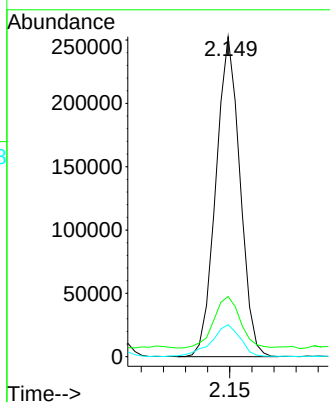
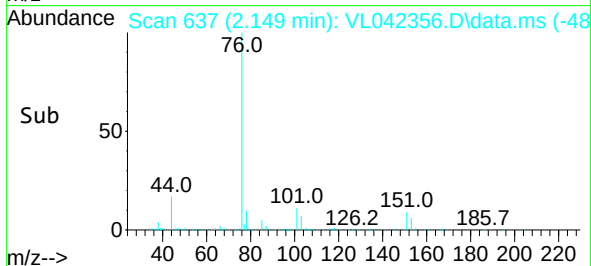
Instrument : MSVOA_L
ClientSampleId : ICVVL041725



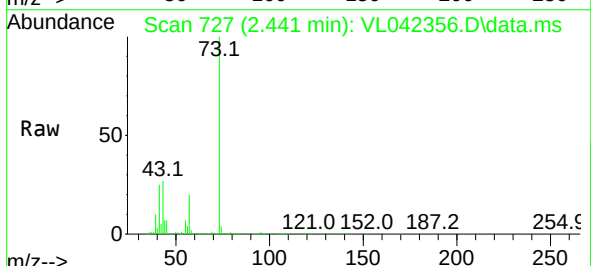
Tgt Ion: 76 Resp: 191117
Ion Ratio Lower Upper
76 100
44 19.3 15.5 23.3
78 11.9 9.3 13.9

Manual Integrations
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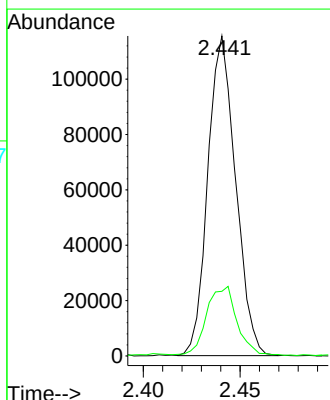
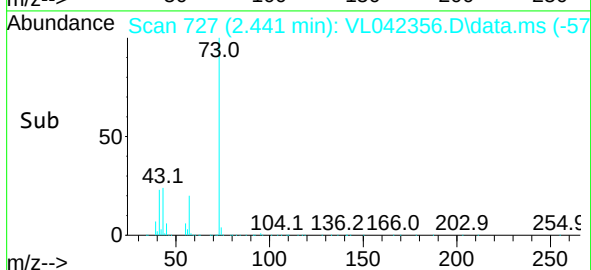
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

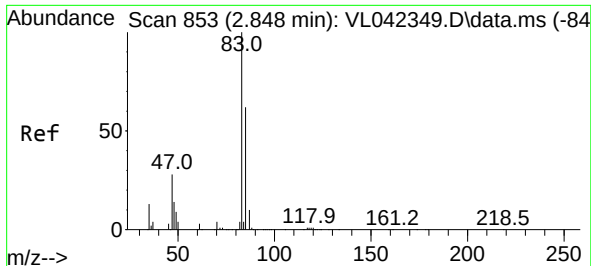


#28
Methyl tert-Butyl Ether
Concen: 9.442 ppbv
RT: 2.441 min Scan# 727
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43



Tgt Ion: 73 Resp: 115190
Ion Ratio Lower Upper
73 100
57 23.4 21.3 31.9





#29

Chloroform

Concen: 9.912 ppbv

RT: 2.848 min Scan# 853

Delta R.T. -0.000 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

Instrument :

MSVOA_L

ClientSampleId :

ICVVL041725

Tgt Ion: 83 Resp: 26085

Ion Ratio Lower Upper

83 100

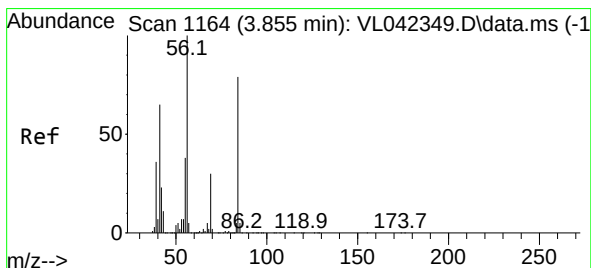
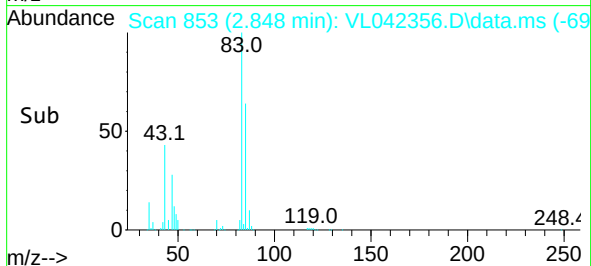
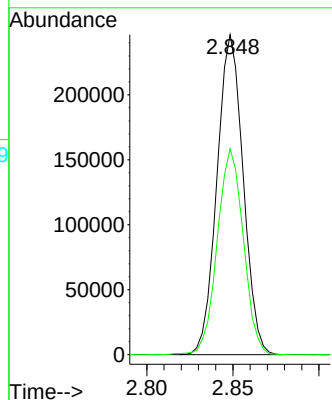
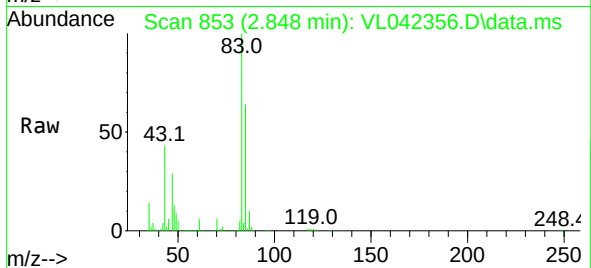
85 64.3 50.0 75.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#30

Cyclohexane

Concen: 9.849 ppbv

RT: 3.855 min Scan# 1164

Delta R.T. -0.000 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

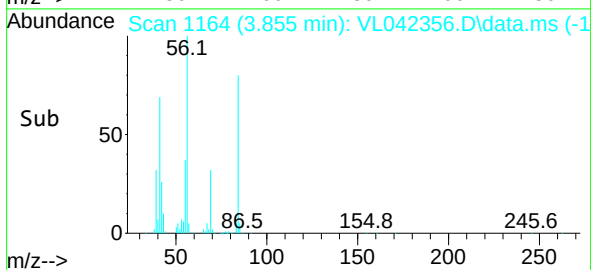
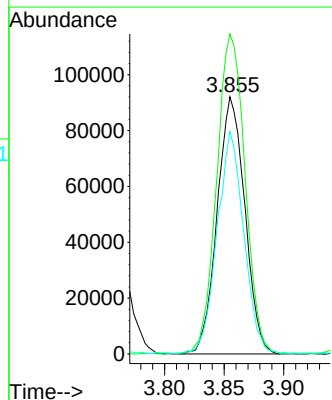
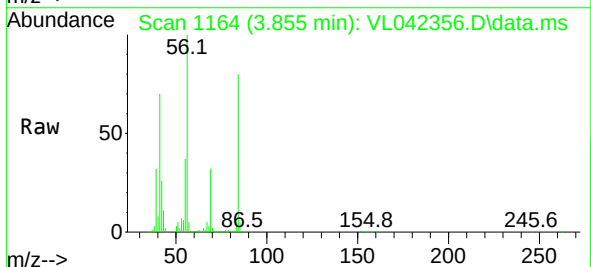
Tgt Ion: 84 Resp: 148246

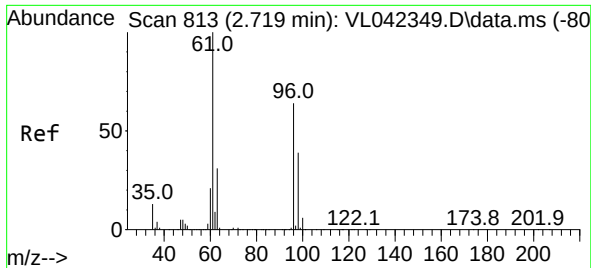
Ion Ratio Lower Upper

84 100

56 127.7 101.0 151.4

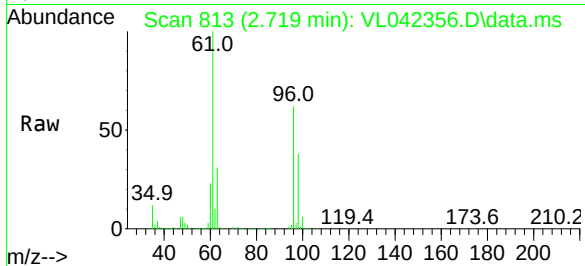
41 83.2 67.4 101.0





#31
 cis-1,2-Dichloroethene
 Concen: 10.167 ppbv
 RT: 2.719 min Scan# 81
 Delta R.T. -0.000 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

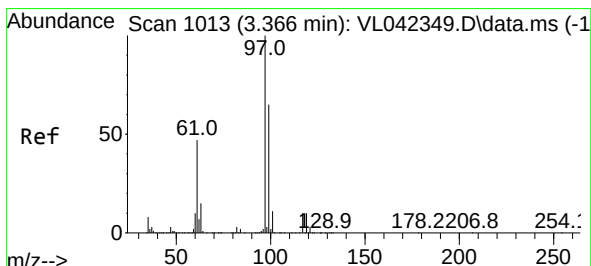
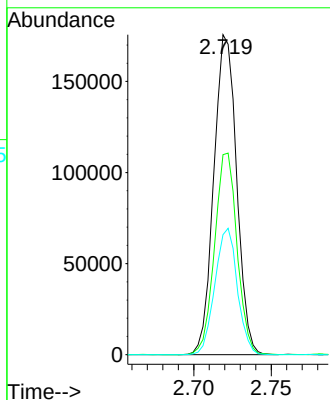
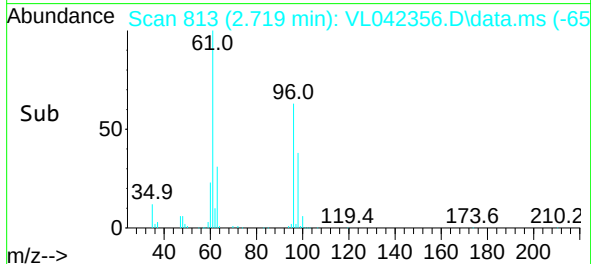
Instrument :
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 ClientSampleId :
 ICVVL041725



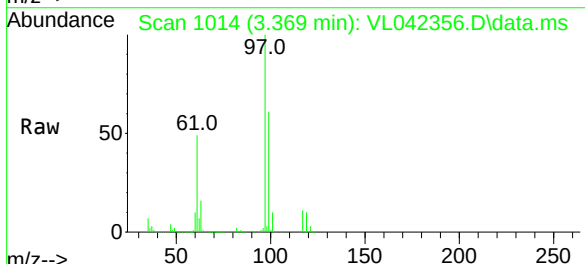
Tgt Ion: 61 Resp: 17999
 Ion Ratio Lower Upper
 61 100
 96 62.5 50.8 76.2
 98 37.5 30.9 46.3

Manual Integrations
 APPROVED

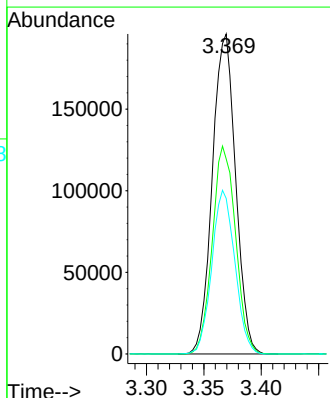
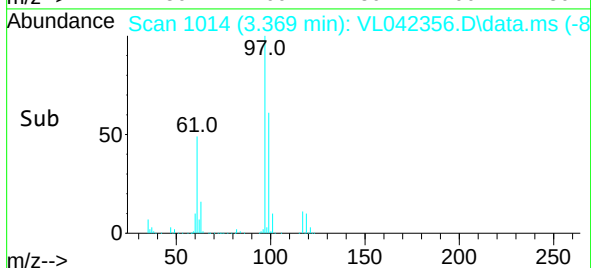
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

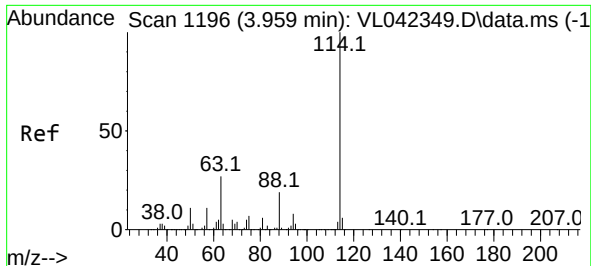


#32
 1,1,1-Trichloroethane
 Concen: 9.336 ppbv
 RT: 3.369 min Scan# 1014
 Delta R.T. 0.003 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43



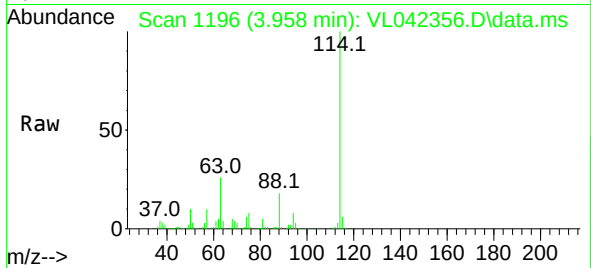
Tgt Ion: 97 Resp: 276599
 Ion Ratio Lower Upper
 97 100
 99 65.0 51.0 76.4
 61 50.7 38.8 58.2





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.958 min Scan# 1196
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

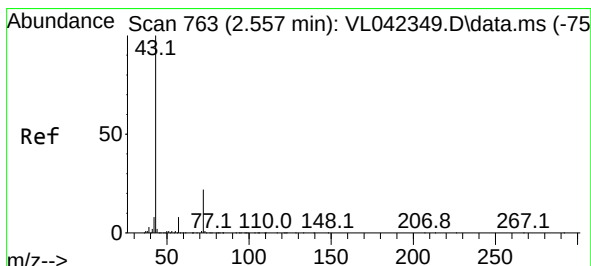
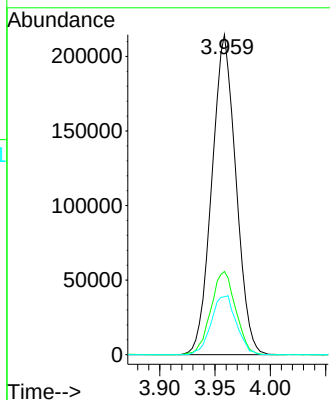
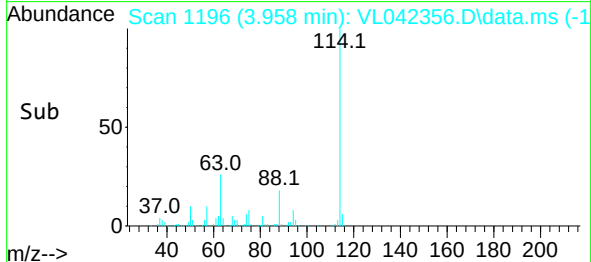
Instrument : MSVOA_L
ClientSampleId : ICVVL041725



Tgt Ion:114 Resp: 324528
Ion Ratio Lower Upper
114 100
63 26.8 21.8 32.6
88 19.2 15.5 23.3

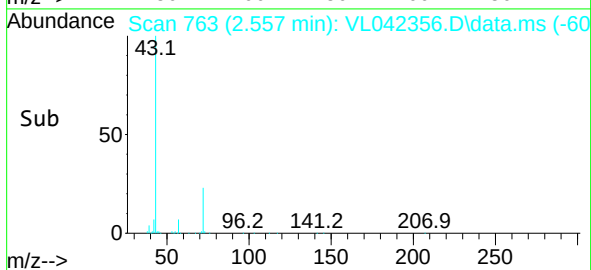
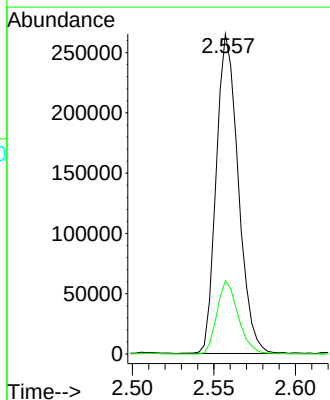
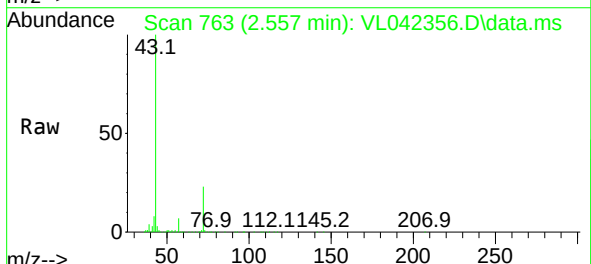
Manual Integrations
APPROVED

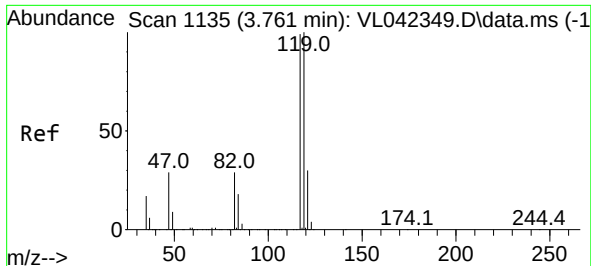
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#34
2-Butanone
Concen: 9.700 ppbv
RT: 2.557 min Scan# 763
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

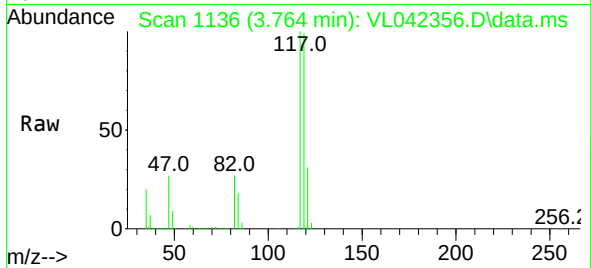
Tgt Ion: 43 Resp: 248969
Ion Ratio Lower Upper
43 100
72 22.1 18.2 27.2





#35
Carbon Tetrachloride
Concen: 9.256 ppbv
RT: 3.764 min Scan# 1135
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

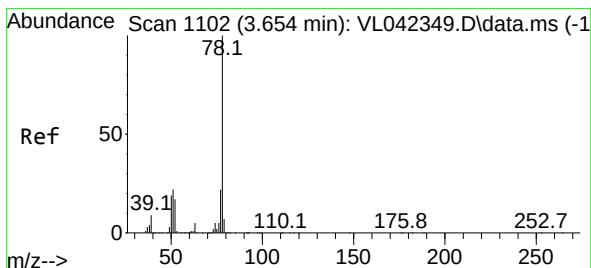
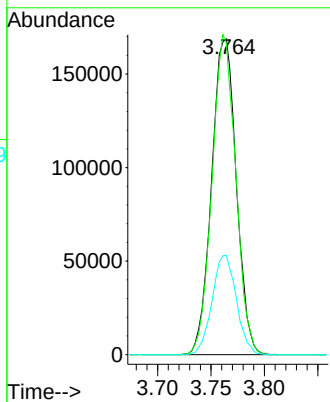
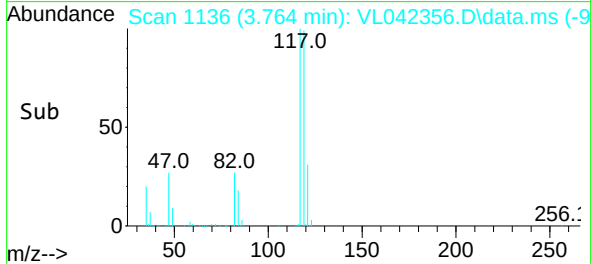
Instrument : MSVOA_L
ClientSampleId : ICVVL041725



Tgt Ion:117 Resp: 271862
Ion Ratio Lower Upper
117 100
119 98.7 80.5 120.7
121 31.5 24.2 36.2

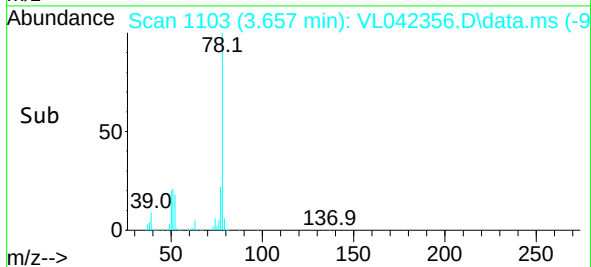
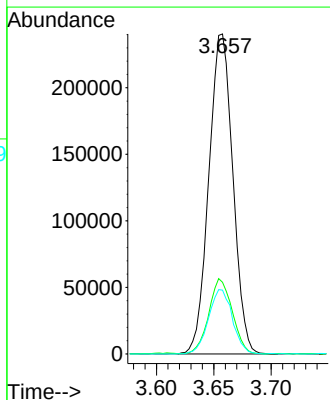
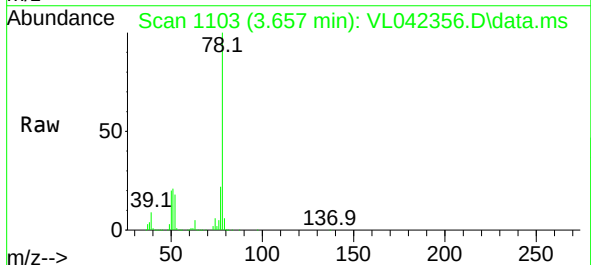
Manual Integrations
APPROVED

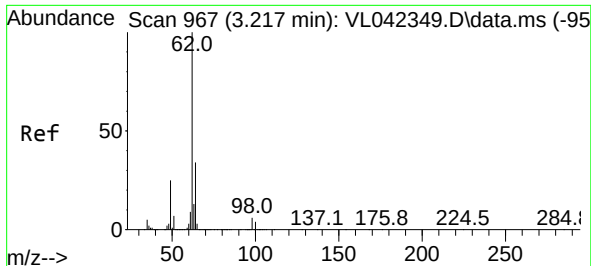
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#36
Benzene
Concen: 10.014 ppbv
RT: 3.657 min Scan# 1103
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

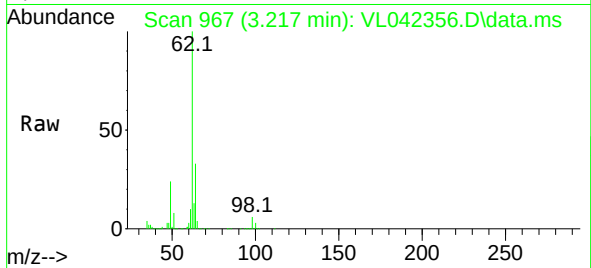
Tgt Ion: 78 Resp: 350545
Ion Ratio Lower Upper
78 100
77 22.3 17.4 26.0
50 19.9 15.5 23.3





#37
1,2-Dichloroethane
Concen: 10.081 ppbv
RT: 3.217 min Scan# 967
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

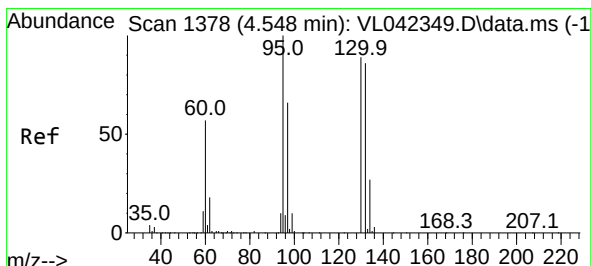
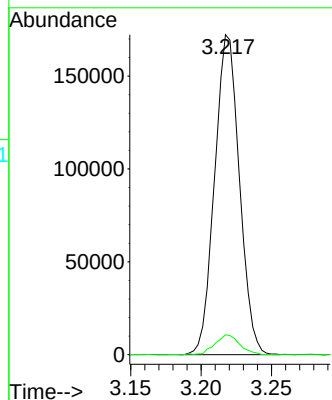
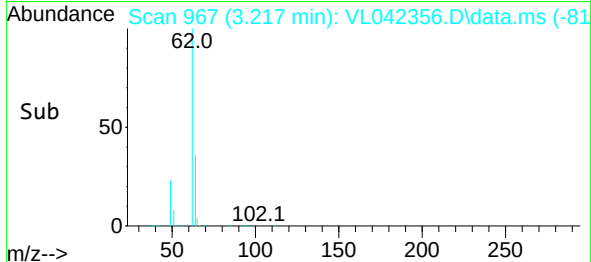
Instrument : MSVOA_L
ClientSampleId : ICVVL041725



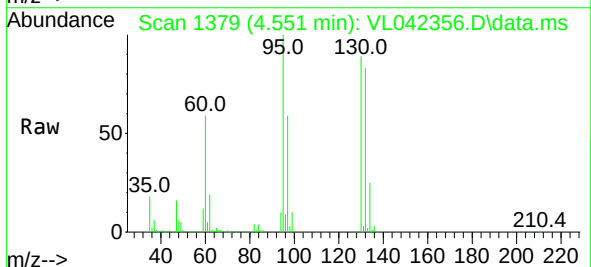
Tgt Ion: 62 Resp: 211790
Ion Ratio Lower Upper
62 100
98 6.2 5.1 7.7

Manual Integrations
APPROVED

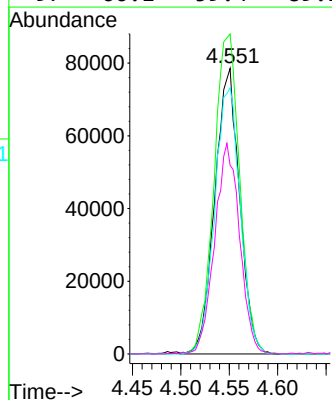
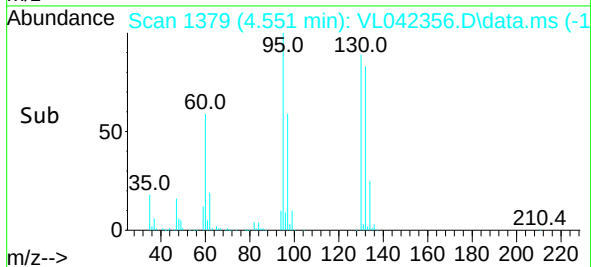
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

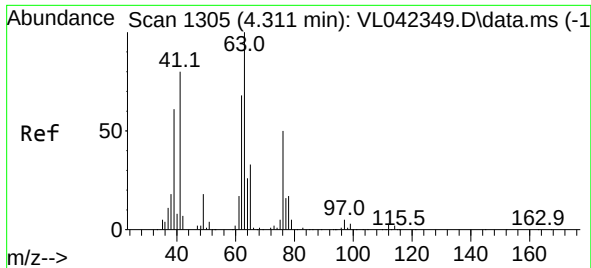


#38
Trichloroethene
Concen: 9.143 ppbv
RT: 4.551 min Scan# 1379
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43



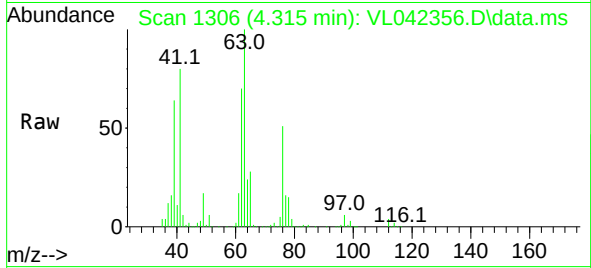
Tgt Ion:130 Resp: 139872
Ion Ratio Lower Upper
130 100
95 112.0 89.8 134.6
132 93.2 77.7 116.5
97 66.1 59.4 89.2





#39
1,2-Dichloropropane
Concen: 9.908 ppbv
RT: 4.315 min Scan# 1305
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

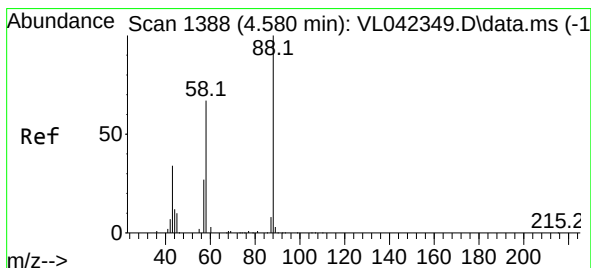
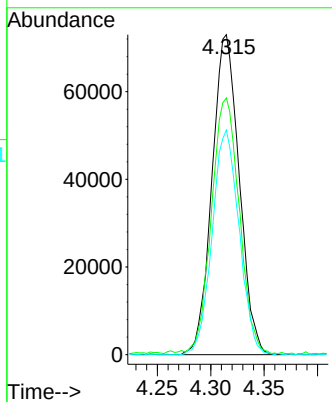
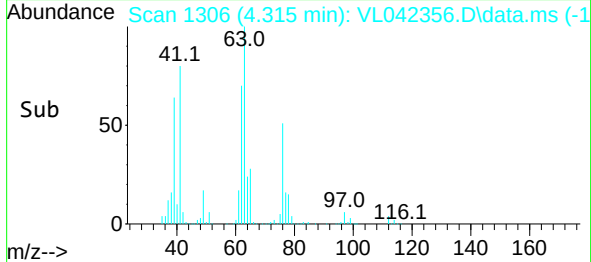
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725



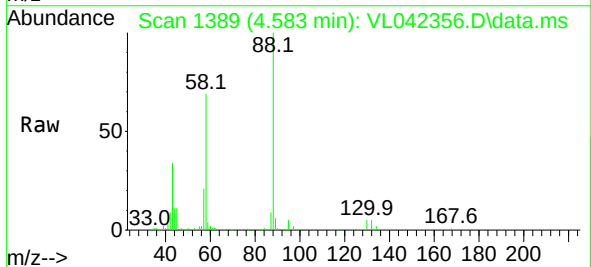
Tgt Ion: 63 Resp: 129239
Ion Ratio Lower Upper
63 100
41 79.9 64.2 96.2
62 70.2 54.3 81.5

Manual Integrations
APPROVED

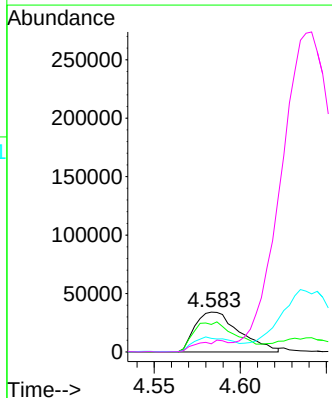
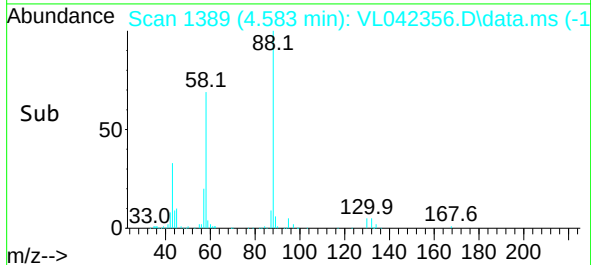
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

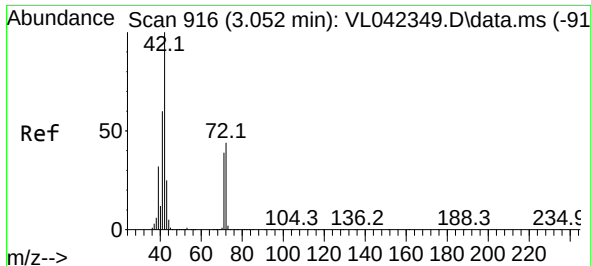


#40
1,4-Dioxane
Concen: 8.591 ppbv
RT: 4.583 min Scan# 1389
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43



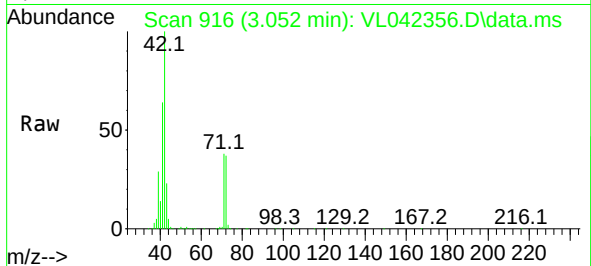
Tgt Ion: 88 Resp: 61587
Ion Ratio Lower Upper
88 100
58 76.1 61.4 92.0
43 35.9 23.2 34.8#
57 0.0 0.0 0.0





#41
Tetrahydrofuran
Concen: 9.479 ppbv
RT: 3.052 min Scan# 916
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

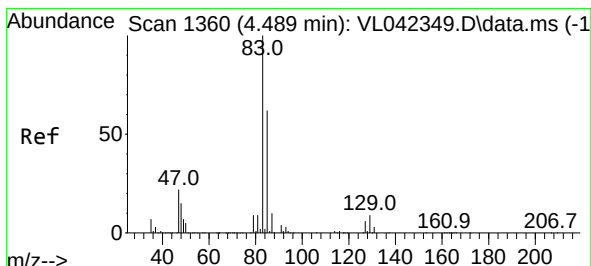
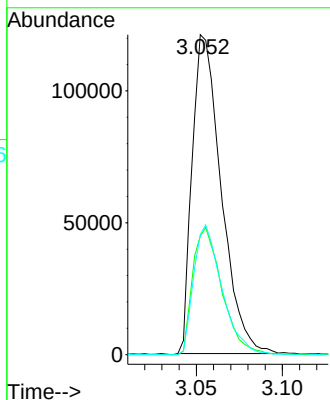
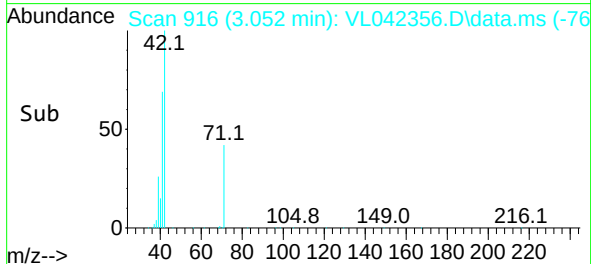
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725



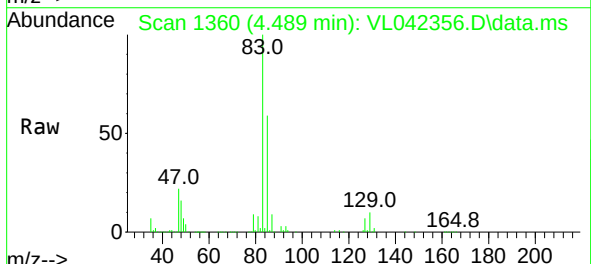
Tgt Ion: 42 Resp: 14186
Ion Ratio Lower Upper
42 100
72 40.2 32.3 48.5
71 39.8 31.4 47.2

Manual Integrations
APPROVED

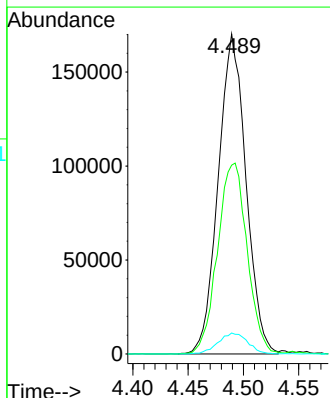
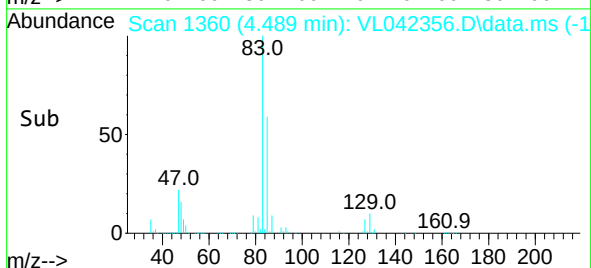
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

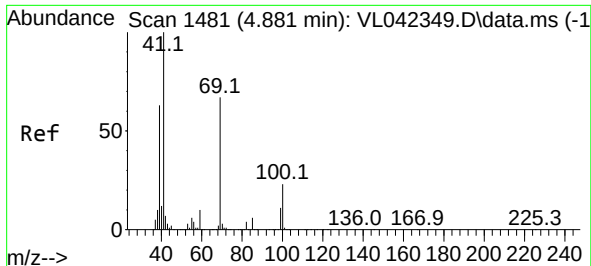


#42
Bromodichloromethane
Concen: 10.156 ppbv
RT: 4.489 min Scan# 1360
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43



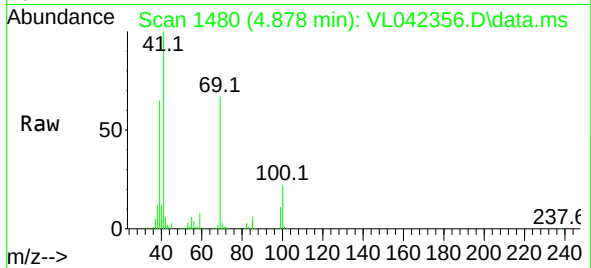
Tgt Ion: 83 Resp: 296946
Ion Ratio Lower Upper
83 100
85 59.0 49.7 74.5
127 6.6 5.1 7.7





#43
Methyl Methacrylate
Concen: 9.458 ppbv
RT: 4.878 min Scan# 1481
Delta R.T. -0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

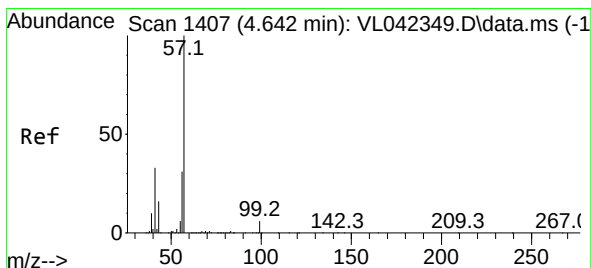
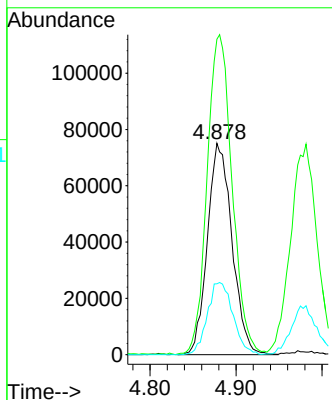
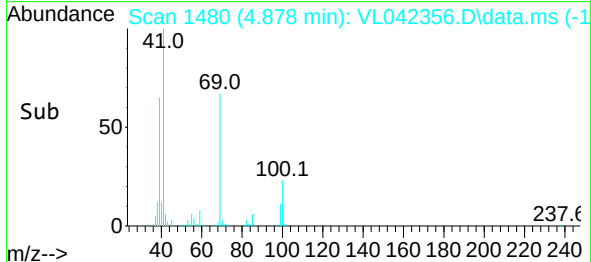
Instrument : MSVOA_L
ClientSampleId : ICVVL041725



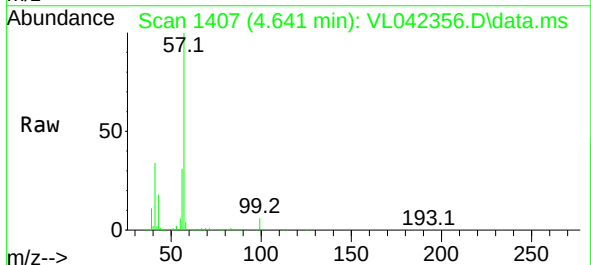
Tgt Ion: 69 Resp: 149209
Ion Ratio Lower Upper
69 100
41 154.1 118.6 177.8
100 35.5 28.2 42.2

Manual Integrations
APPROVED

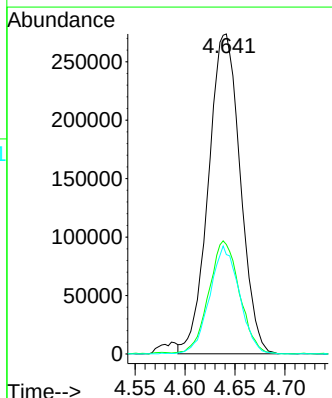
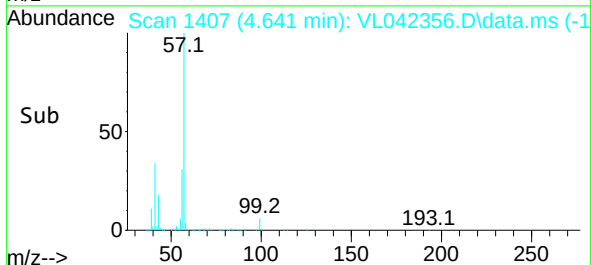
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

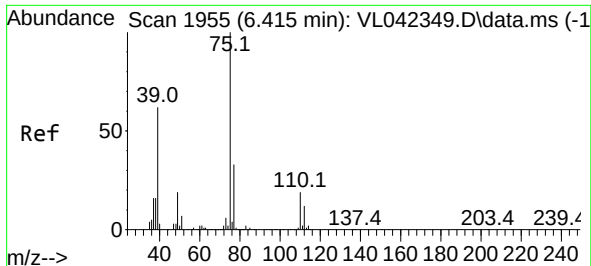


#44
2,2,4-Trimethylpentane
Concen: 10.030 ppbv
RT: 4.641 min Scan# 1407
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43



Tgt Ion: 57 Resp: 606376
Ion Ratio Lower Upper
57 100
41 34.3 27.2 40.8
56 31.6 25.7 38.5





#45

t-1,3-Dichloropropene

Concen: 9.975 ppbv

RT: 6.412 min Scan# 1955

Delta R.T. -0.003 min

Lab File: VL042356.D

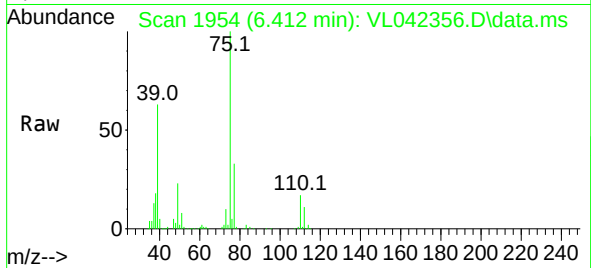
Acq: 17 Apr 2025 13:43

Instrument :

MSVOA_L

ClientSampleId :

ICVVL041725



Tgt Ion: 75 Resp: 160750

Ion Ratio Lower Upper

75 100

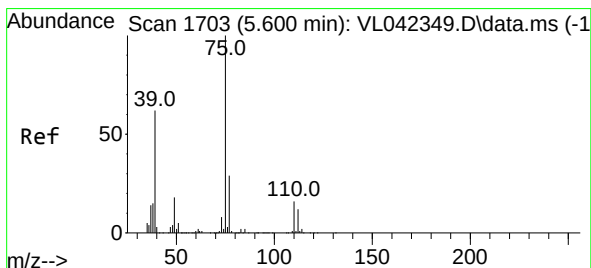
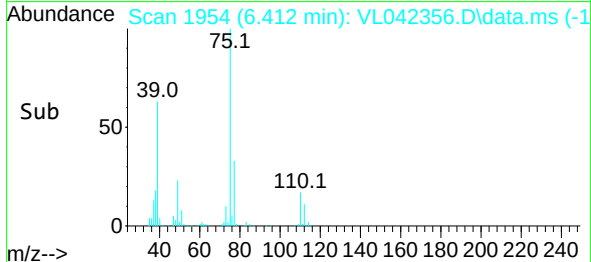
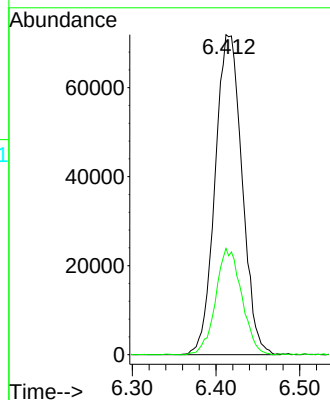
77 33.2 27.0 40.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#46

cis-1,3-Dichloropropene

Concen: 10.148 ppbv

RT: 5.599 min Scan# 1703

Delta R.T. -0.000 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

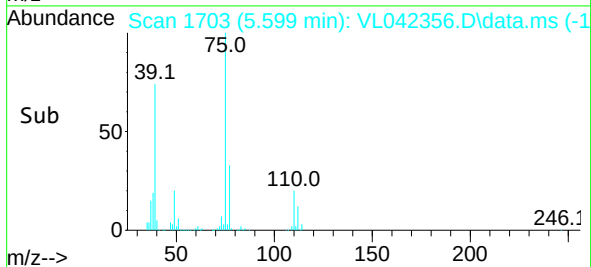
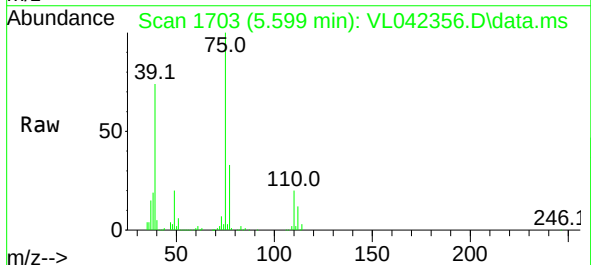
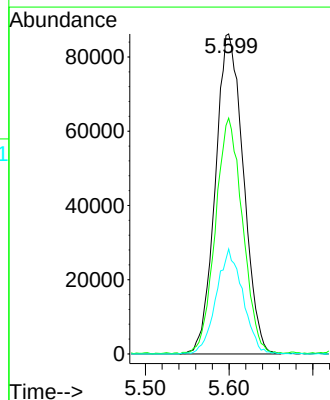
Tgt Ion: 75 Resp: 200144

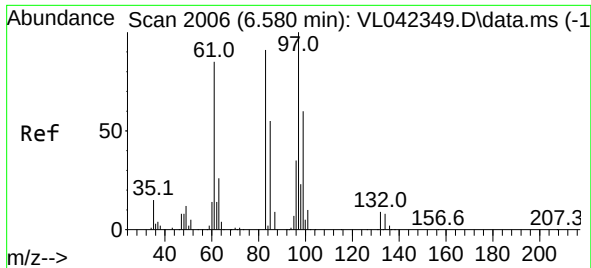
Ion Ratio Lower Upper

75 100

39 73.7 50.0 75.0

77 32.7 23.0 34.6





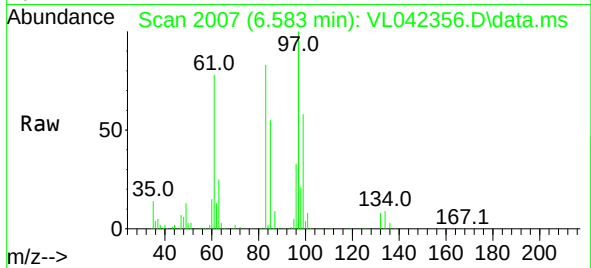
#47
1,1,2-Trichloroethane
Concen: 10.202 ppbv
RT: 6.583 min Scan# 2006
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Instrument :

MSVOA_L

ClientSampleId :

ICVVL041725

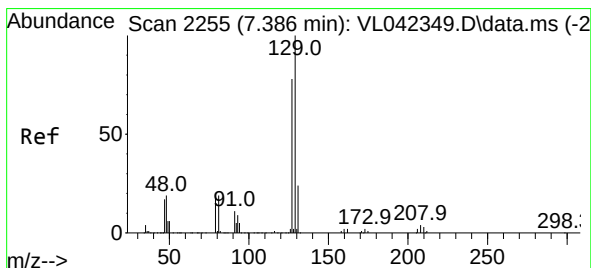
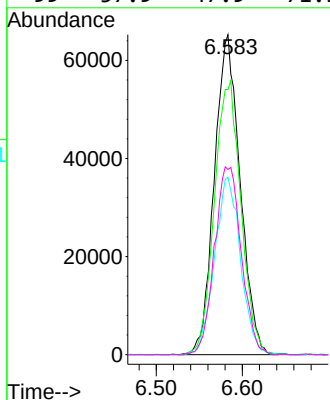
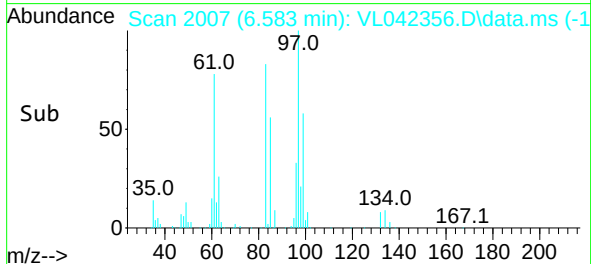


Tgt Ion: 97 Resp: 135574
Ion Ratio Lower Upper
97 100
83 82.8 72.8 109.2
85 55.5 44.2 66.4
99 57.9 47.9 71.9

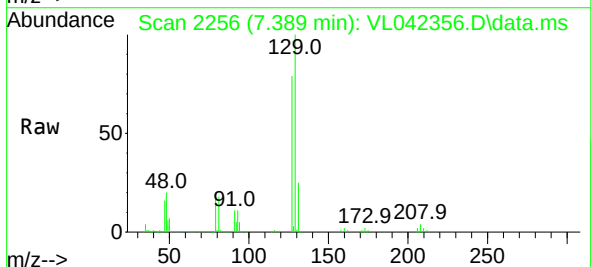
Manual Integrations

APPROVED

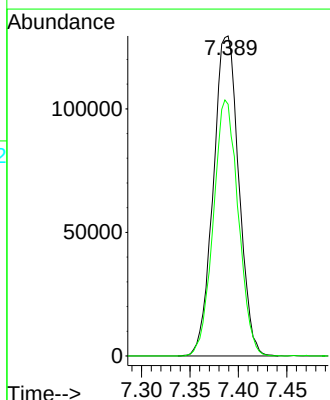
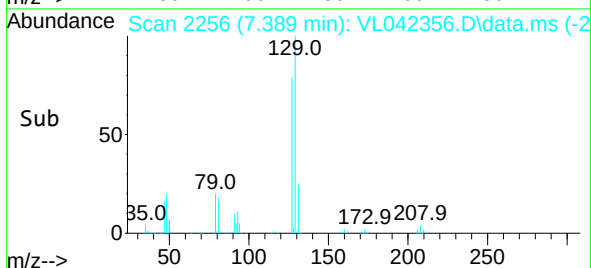
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

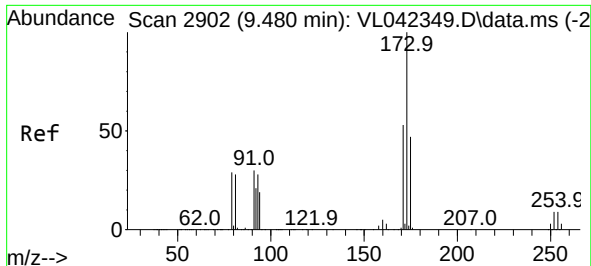


#48
Dibromochloromethane
Concen: 10.103 ppbv
RT: 7.389 min Scan# 2256
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43



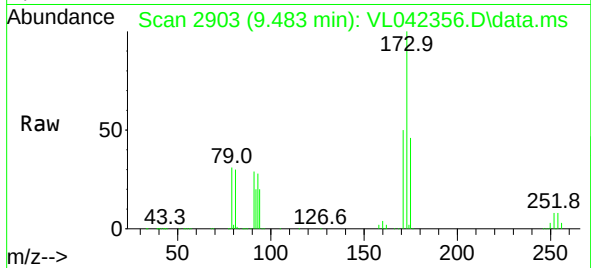
Tgt Ion:129 Resp: 237206
Ion Ratio Lower Upper
129 100
127 78.4 39.1 117.3





#49
Bromoform
Concen: 10.016 ppbv
RT: 9.483 min Scan# 2902
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

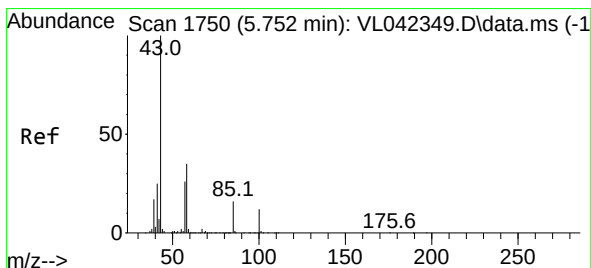
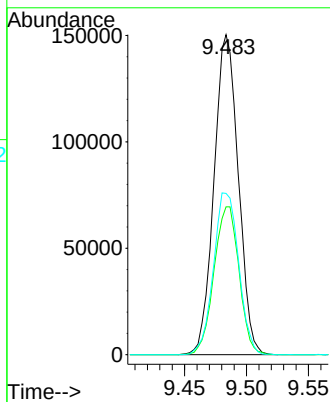
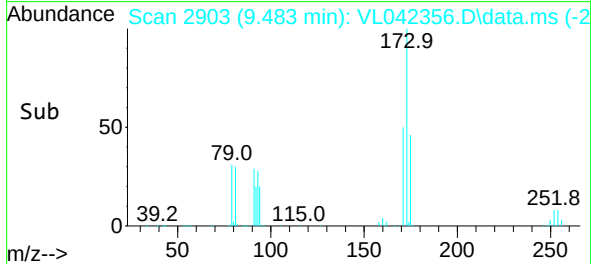
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725



Tgt Ion:173 Resp: 205630
Ion Ratio Lower Upper
173 100
175 47.6 38.2 57.2
171 52.5 40.9 61.3

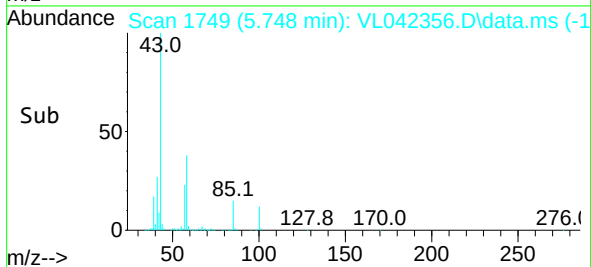
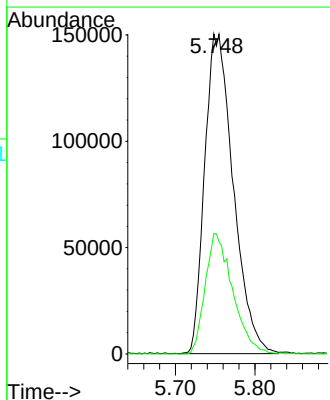
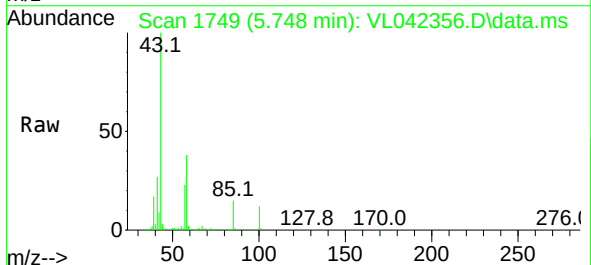
Manual Integrations
APPROVED

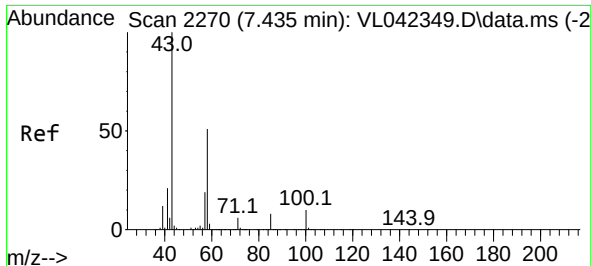
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#50
4-Methyl-2-Pentanone
Concen: 8.819 ppbv
RT: 5.748 min Scan# 1749
Delta R.T. -0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

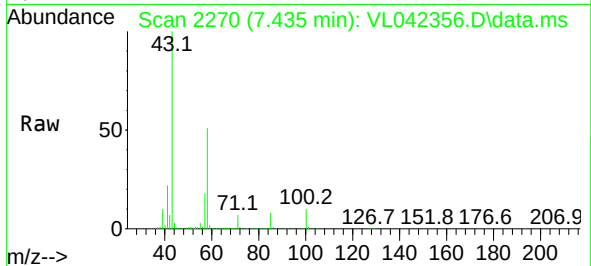
Tgt Ion: 43 Resp: 376145
Ion Ratio Lower Upper
43 100
58 36.2 28.6 43.0





#51
2-Hexanone
Concen: 8.118 ppbv
RT: 7.435 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

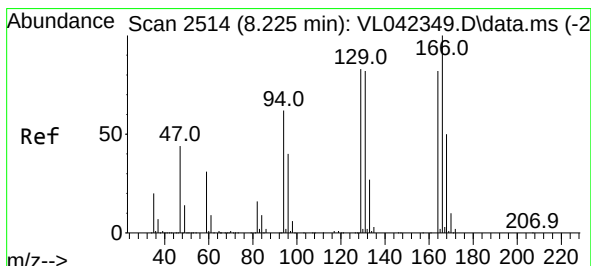
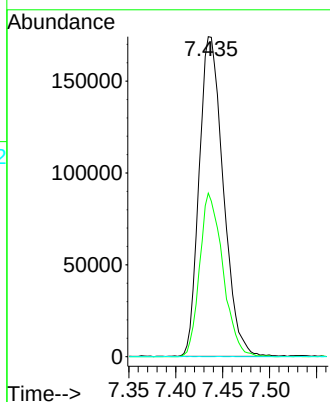
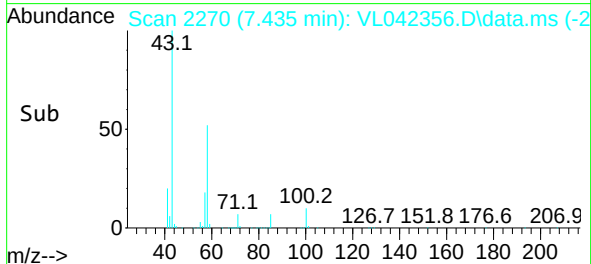
Instrument : MSVOA_L
ClientSampleId : ICVVL041725



Tgt Ion: 43 Resp: 31052
Ion Ratio Lower Upper
43 100
58 49.3 40.2 60.4
98 0.0 0.1 0.1

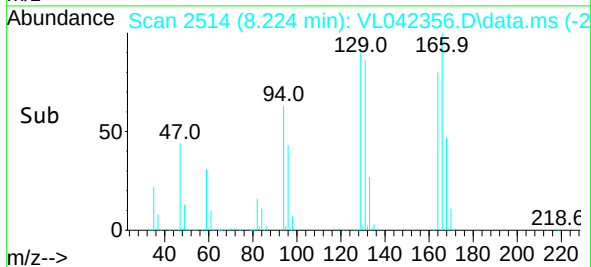
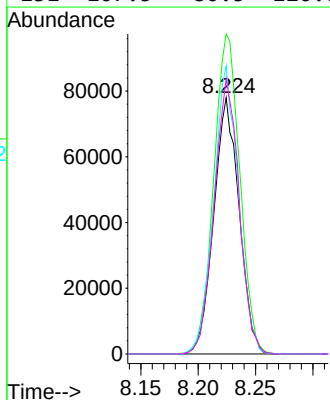
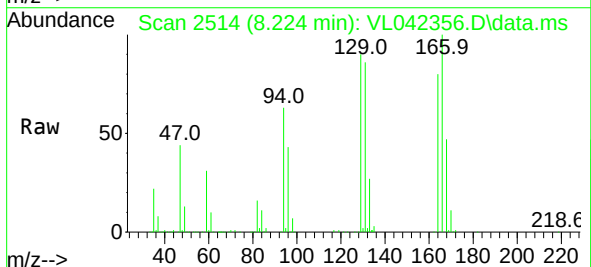
Manual Integrations
APPROVED

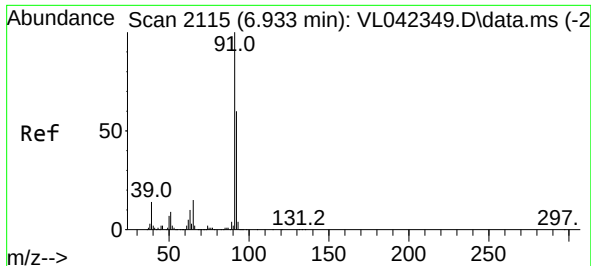
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#52
Tetrachloroethene
Concen: 8.827 ppbv
RT: 8.224 min Scan# 2514
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

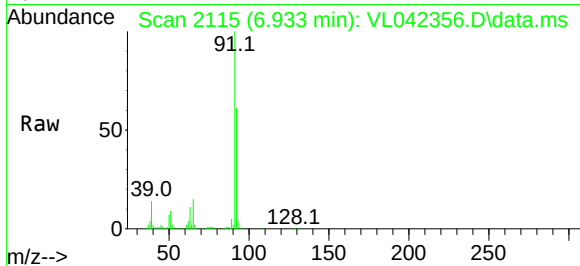
Tgt Ion:164 Resp: 119424
Ion Ratio Lower Upper
164 100
166 124.9 98.2 147.2
129 112.5 81.8 122.8
131 107.5 80.5 120.7





#53
Toluene
Concen: 9.986 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

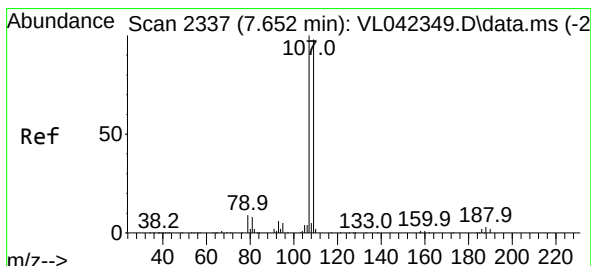
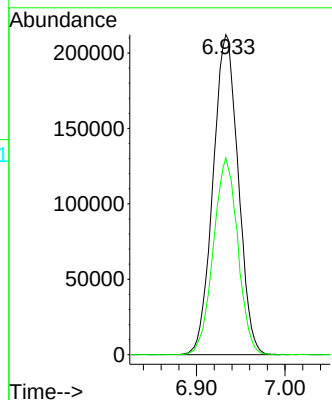
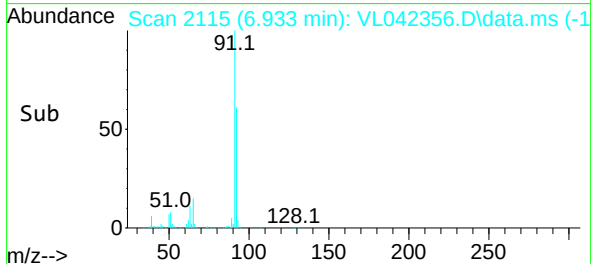
Instrument : MSVOA_L
ClientSampleId : ICVVL041725



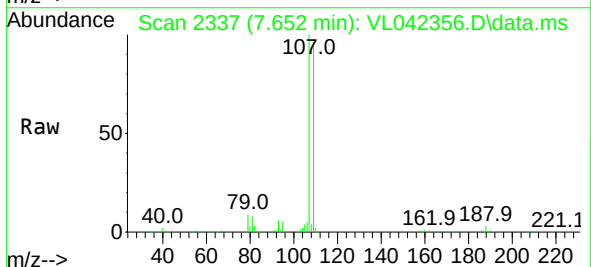
Tgt Ion: 91 Resp: 419462
Ion Ratio Lower Upper
91 100
92 59.6 48.2 72.4

Manual Integrations APPROVED

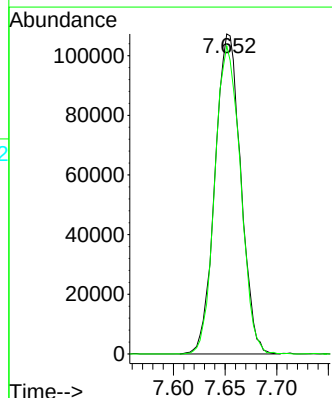
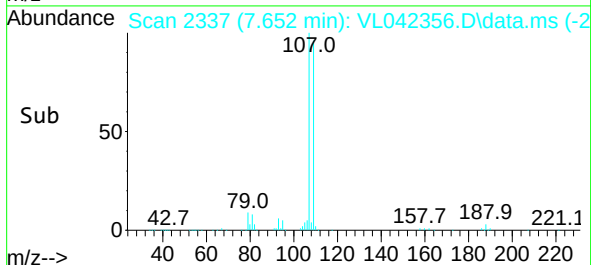
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

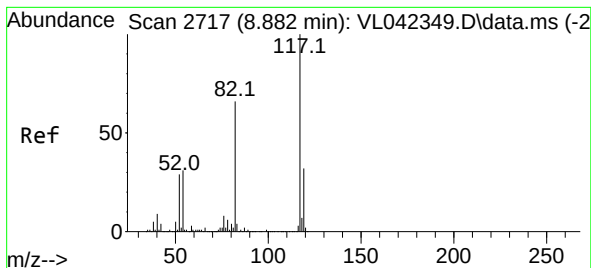


#54
1,2-Dibromoethane
Concen: 9.792 ppbv
RT: 7.652 min Scan# 2337
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43



Tgt Ion:107 Resp: 186231
Ion Ratio Lower Upper
107 100
109 96.3 78.2 117.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.881 min Scan# 2717

Delta R.T. -0.000 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

Instrument :

MSVOA_L

ClientSampleId :

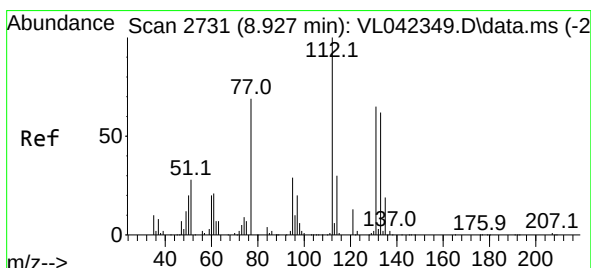
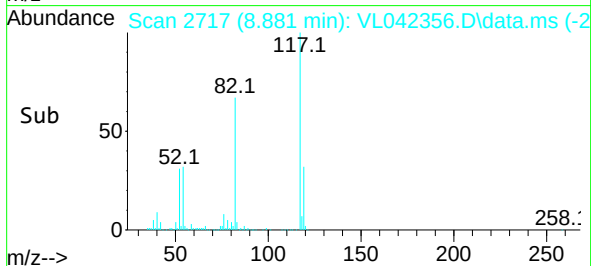
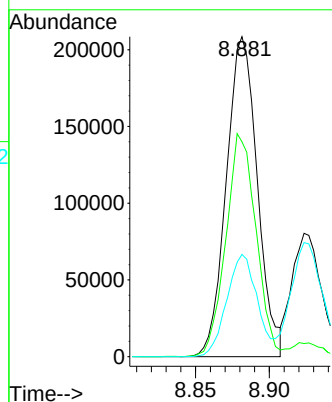
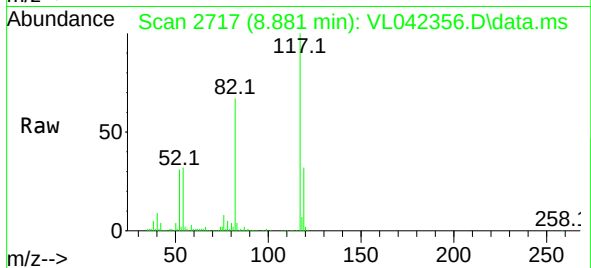
ICVVL041725

Tgt Ion:	117	Resp:	30535
Ion Ratio	Lower	Upper	
117	100		
82	68.3	57.8	86.6
119	31.8	25.2	37.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#56

1,1,1,2-Tetrachloroethane

Concen: 9.886 ppbv

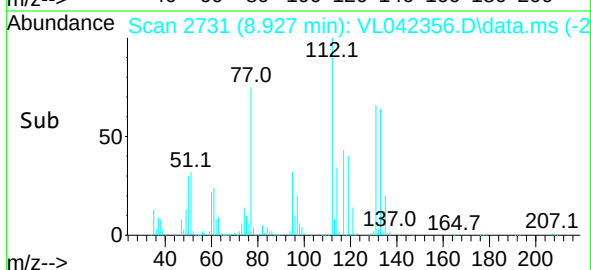
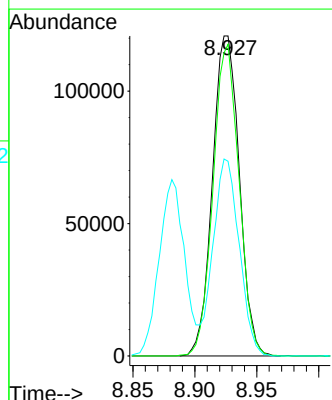
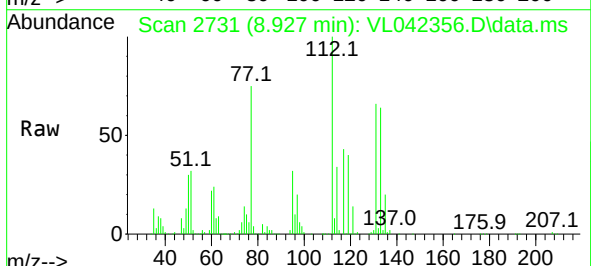
RT: 8.927 min Scan# 2731

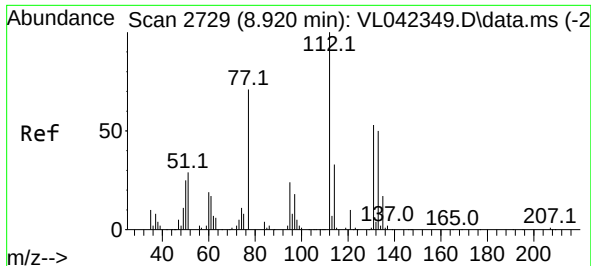
Delta R.T. -0.000 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

Tgt Ion:	131	Resp:	182712
Ion Ratio	Lower	Upper	
131	100		
133	93.9	78.3	117.5
119	59.4	48.7	73.1





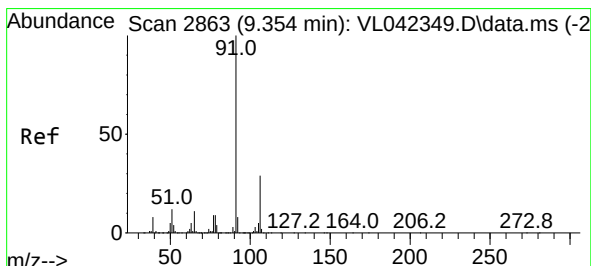
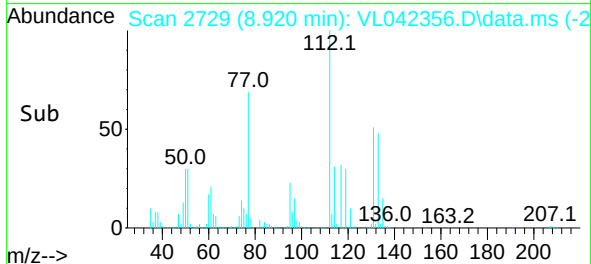
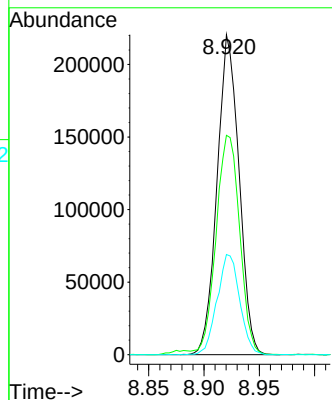
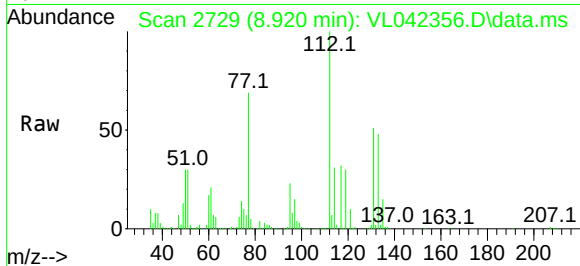
#57
Chlorobenzene
Concen: 9.589 ppbv
RT: 8.920 min Scan# 2729
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Instrument : MSVOA_L
ClientSampleId : ICVVL041725

Tgt Ion: 112 Resp: 30453
Ion Ratio Lower Upper
112 100
77 68.5 57.8 86.6
114 31.3 29.3 35.9

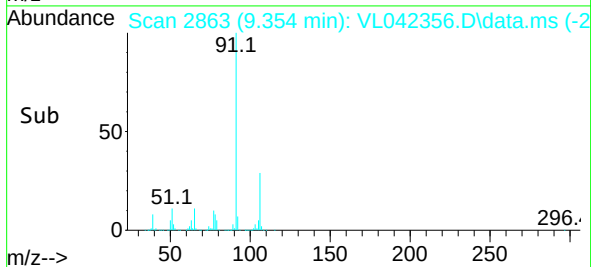
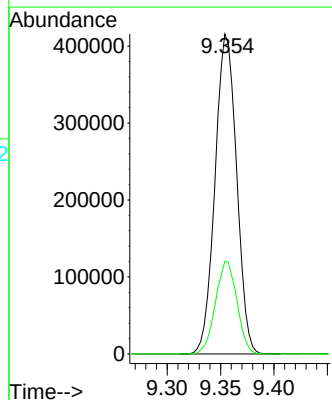
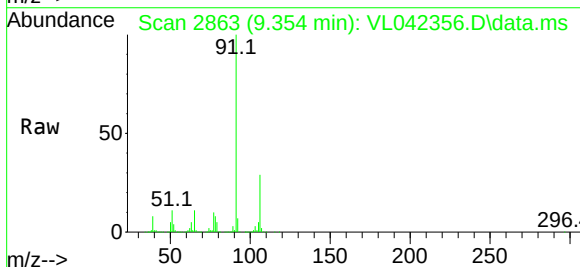
Manual Integrations
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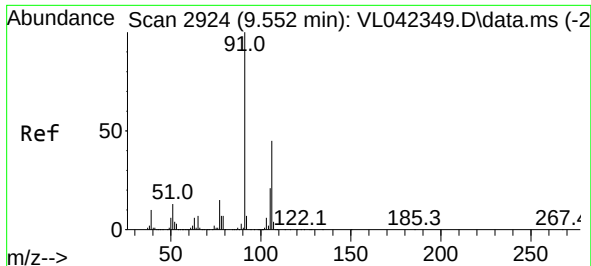
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#58
Ethyl Benzene
Concen: 9.645 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 91 Resp: 583515
Ion Ratio Lower Upper
91 100
106 29.0 23.0 34.4





#59

m/p-Xylene

Concen: 19.139 ppbv m

RT: 9.532 min Scan# 2918

Delta R.T. -0.020 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

Instrument :

MSVOA_L

ClientSampleId :

ICVVL041725

Tgt Ion: 91 Resp: 93280

Ion Ratio Lower Upper

91 100

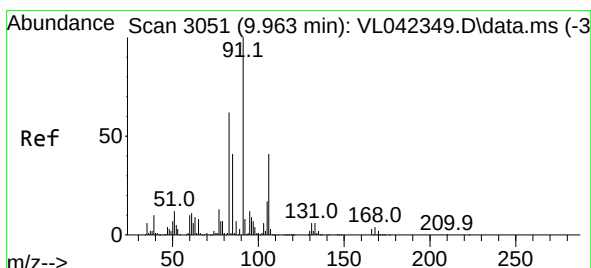
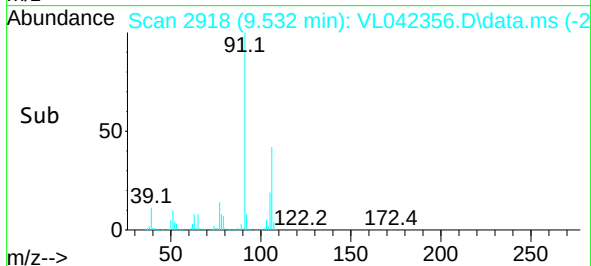
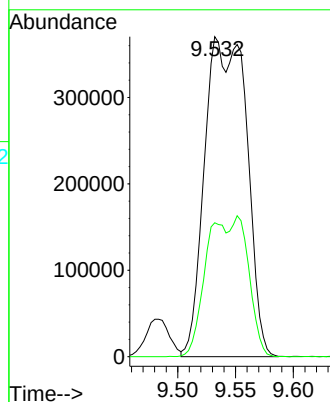
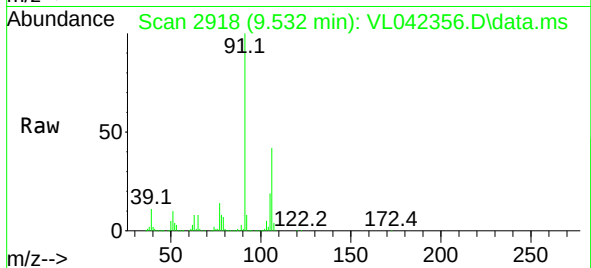
106 43.7 35.4 53.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#60

o-Xylene

Concen: 9.465 ppbv

RT: 9.966 min Scan# 3052

Delta R.T. 0.003 min

Lab File: VL042356.D

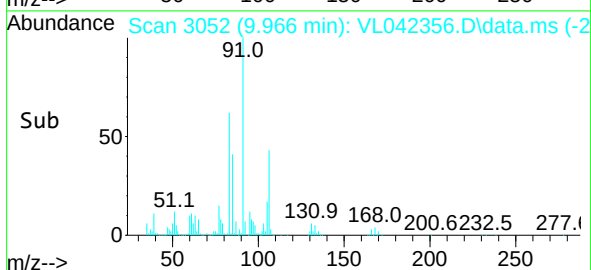
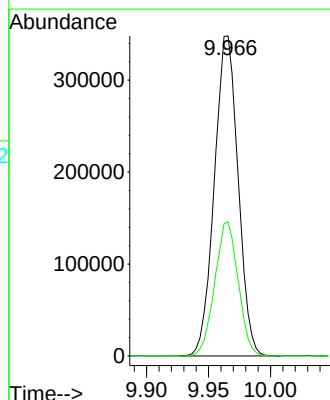
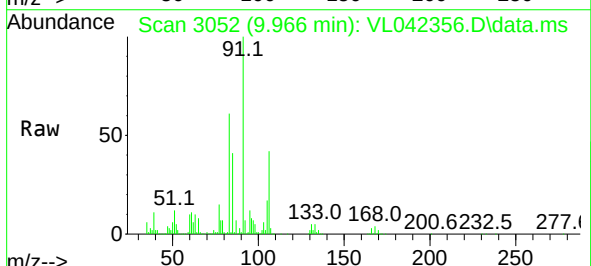
Acq: 17 Apr 2025 13:43

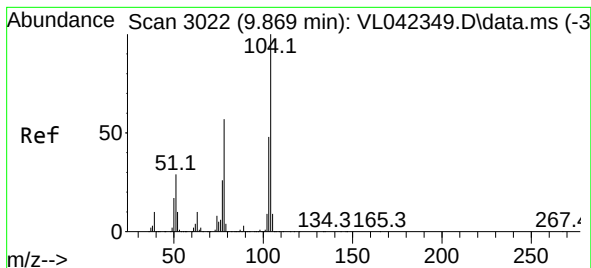
Tgt Ion: 91 Resp: 464522

Ion Ratio Lower Upper

91 100

106 41.4 21.1 63.4





#61

Styrene

Concen: 9.813 ppbv

RT: 9.872 min Scan# 3022

Delta R.T. 0.003 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

Instrument :

MSVOA_L

ClientSampleId :

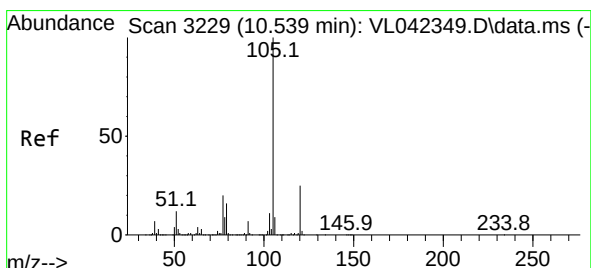
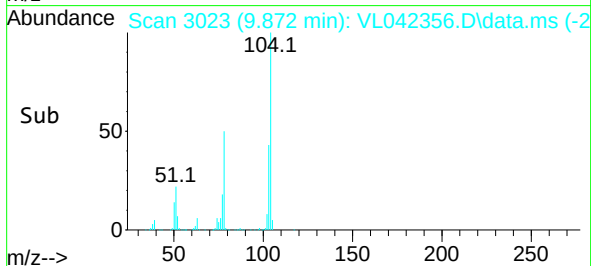
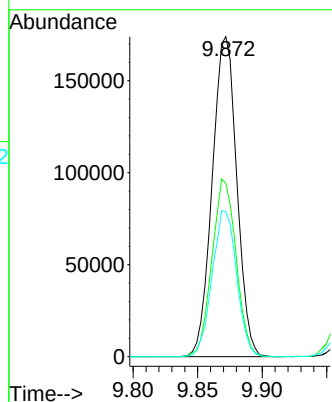
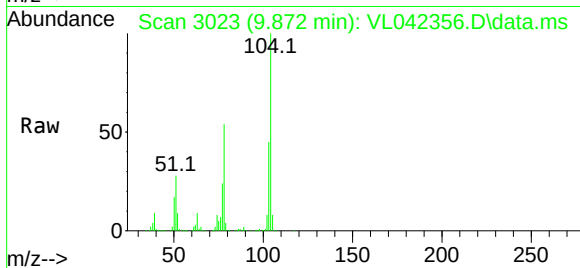
ICVVL041725

Tgt Ion:104 Resp: 229865
 Ion Ratio Lower Upper
 104 100
 78 54.5 44.6 66.8
 103 45.7 37.4 56.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#62

Isopropylbenzene

Concen: 9.520 ppbv

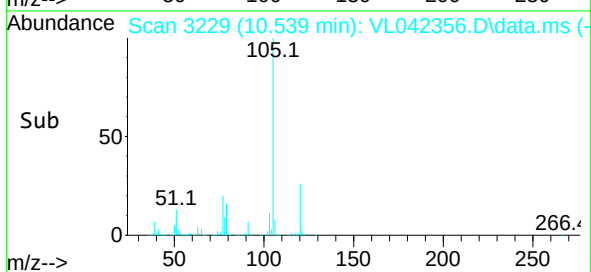
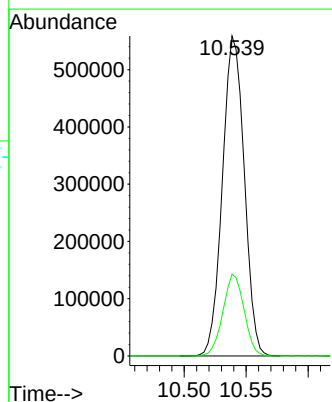
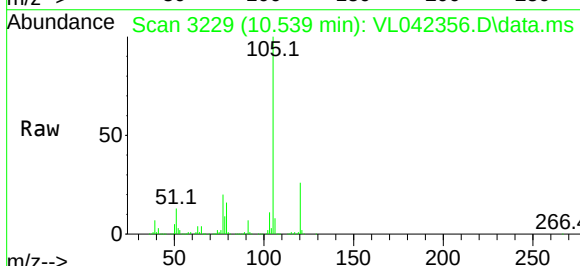
RT: 10.539 min Scan# 3229

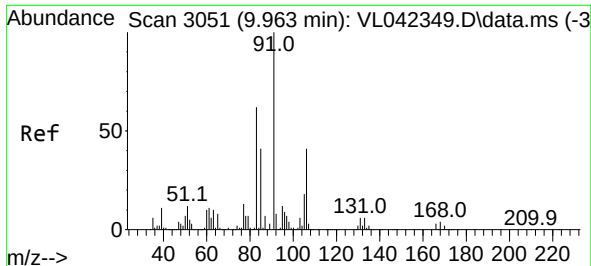
Delta R.T. -0.000 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

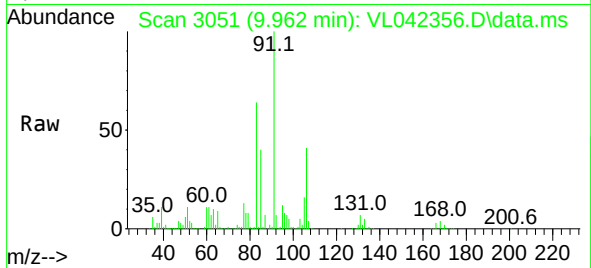
Tgt Ion:105 Resp: 685965
 Ion Ratio Lower Upper
 105 100
 120 24.8 19.8 29.8





#63
1,1,2,2-Tetrachloroethane
Concen: 8.773 ppbv
RT: 9.962 min Scan# 3051
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

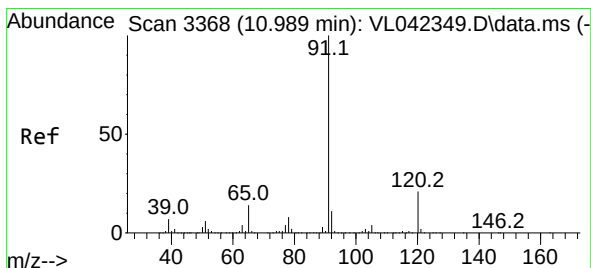
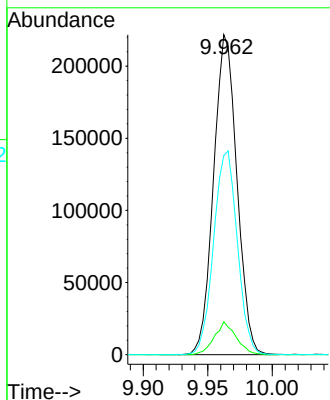
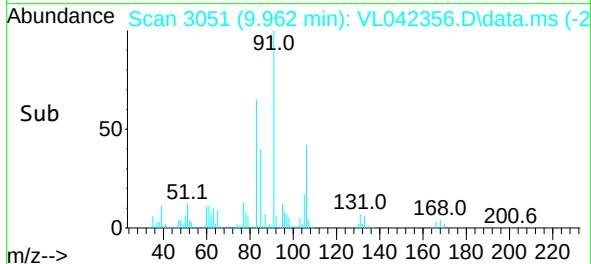
Instrument : MSVOA_L
ClientSampleId : ICVVL041725



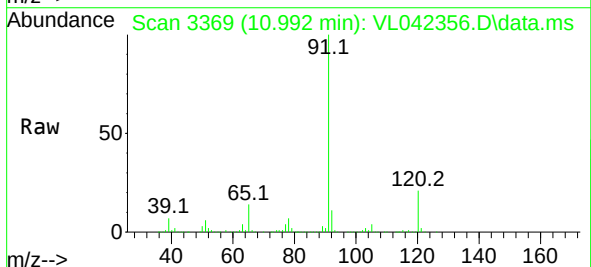
Tgt Ion: 83 Resp: 27900
Ion Ratio Lower Upper
83 100
131 9.6 4.5 13.7
85 64.6 32.4 97.0

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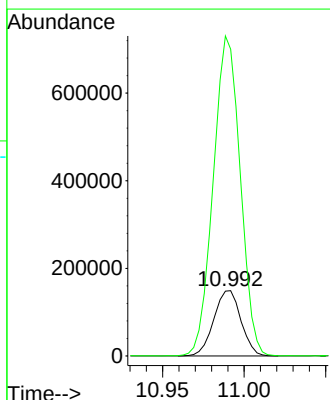
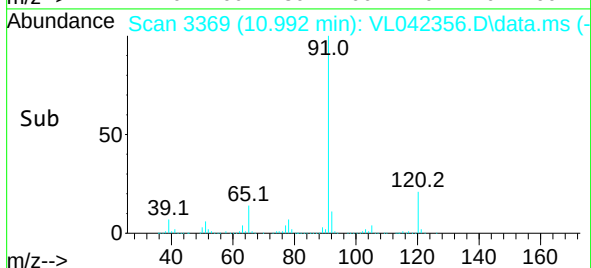
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

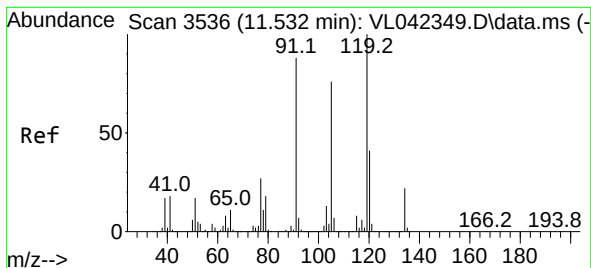


#64
n-propylbenzene
Concen: 9.533 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43



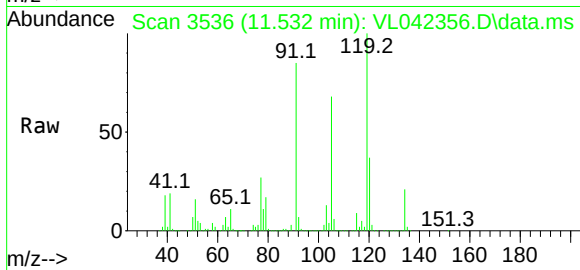
Tgt Ion:120 Resp: 172654
Ion Ratio Lower Upper
120 100
91 487.7 392.4 588.6





#65
tert-Butylbenzene
Concen: 9.203 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

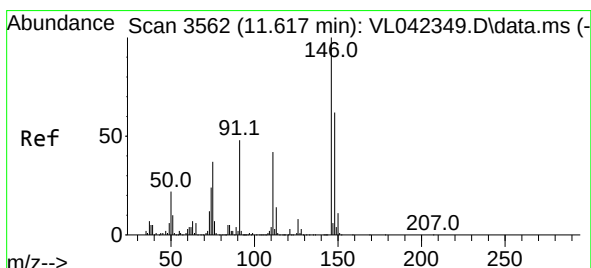
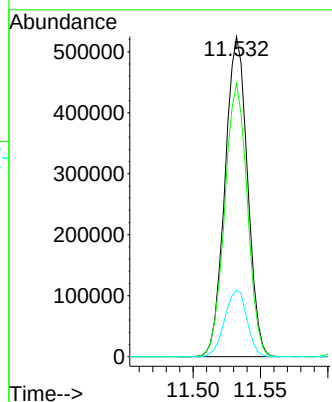
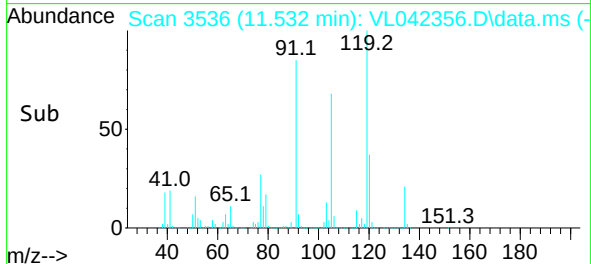
Instrument : MSVOA_L
ClientSampleId : ICVVL041725



Tgt Ion: 119 Resp: 609500
Ion Ratio Lower Upper
119 100
91 85.8 74.6 111.8
134 20.5 18.8 28.2

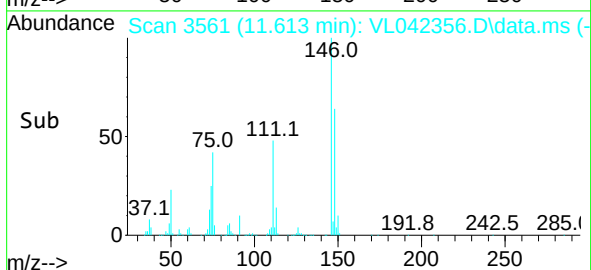
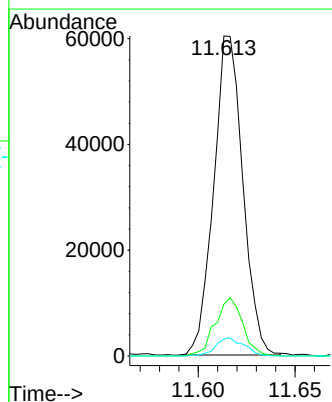
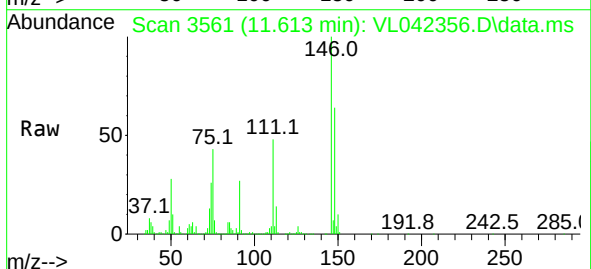
Manual Integrations
APPROVED

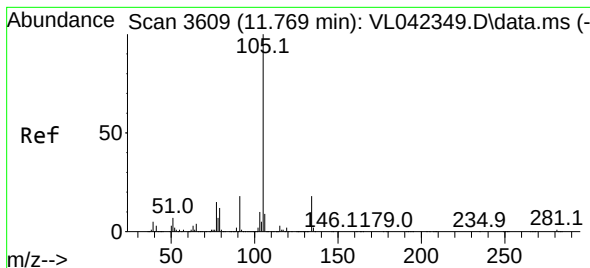
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#66
Benzyl Chloride
Concen: 8.664 ppbv
RT: 11.613 min Scan# 3561
Delta R.T. -0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

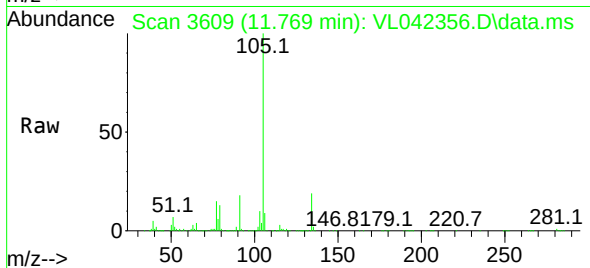
Tgt Ion: 91 Resp: 63051
Ion Ratio Lower Upper
91 100
126 17.3 11.8 17.6
128 5.6 4.5 6.7





#67
 sec-Butylbenzene
 Concen: 9.268 ppbv
 RT: 11.769 min Scan# 3609
 Delta R.T. -0.000 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

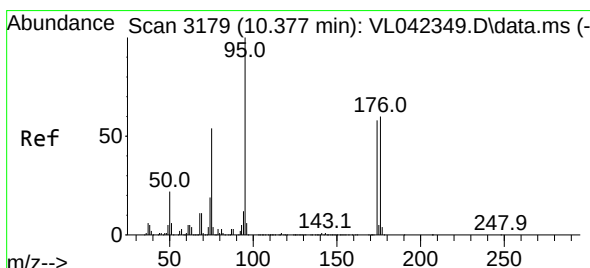
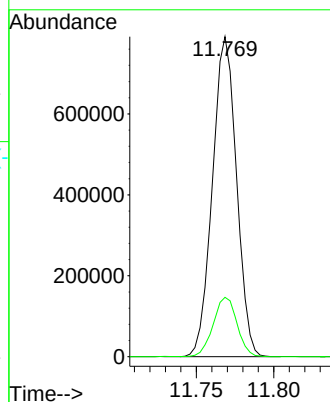
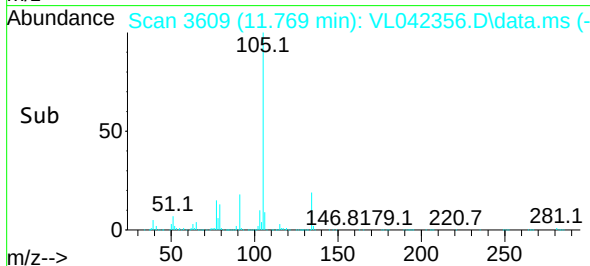
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL041725



Tgt Ion: 105 Resp: 85380
 Ion Ratio Lower Upper
 105 100
 134 18.5 14.6 21.8

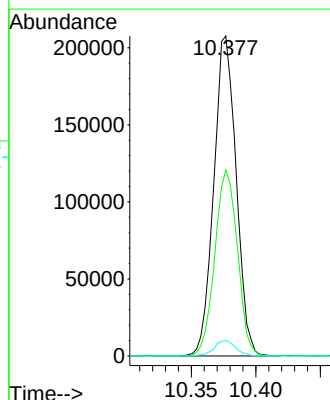
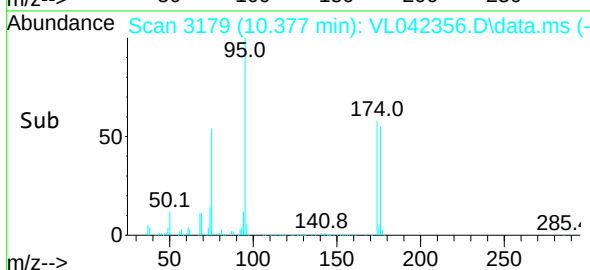
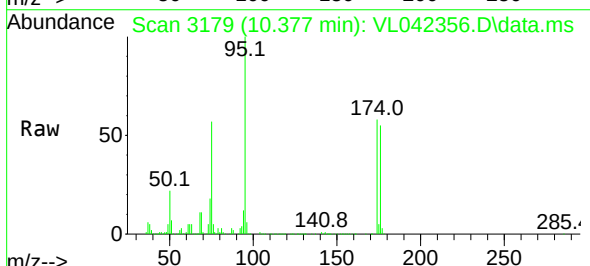
Manual Integrations APPROVED

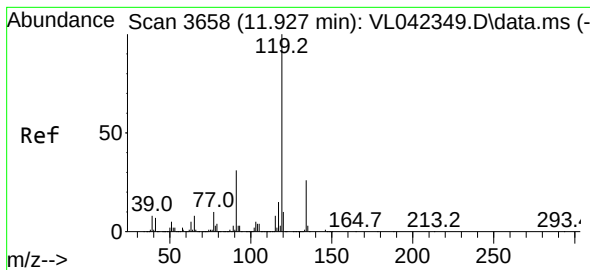
Reviewed By : Semsettin Yesilyurt 04/18/2025
 Supervised By : Mahesh Dadoda 04/18/2025



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.969 ppbv
 RT: 10.377 min Scan# 3179
 Delta R.T. -0.000 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

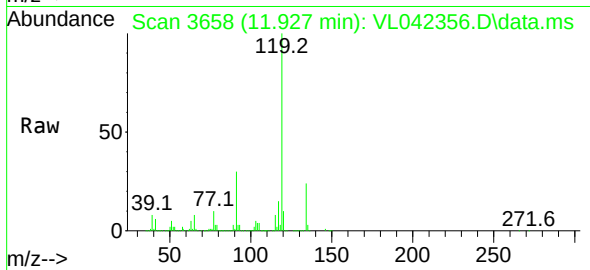
Tgt Ion: 95 Resp: 250149
 Ion Ratio Lower Upper
 95 100
 174 58.7 48.5 72.7
 175 4.7 3.7 5.5





#69
p-Isopropyltoluene
Concen: 9.220 ppbv
RT: 11.927 min Scan# 3658
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

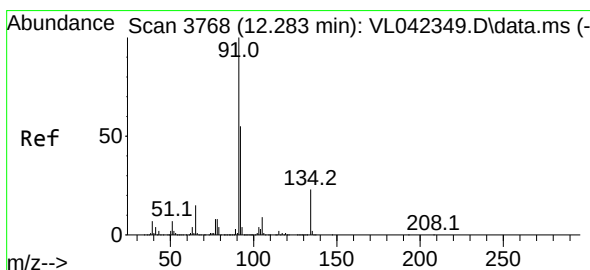
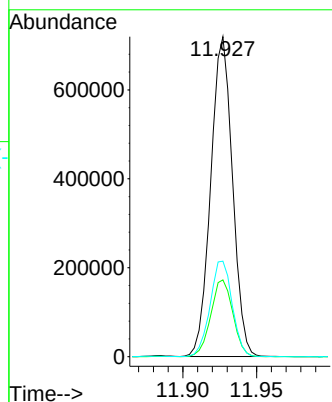
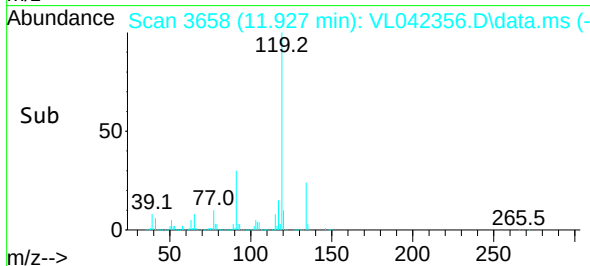
Instrument : MSVOA_L
ClientSampleId : ICVVL041725



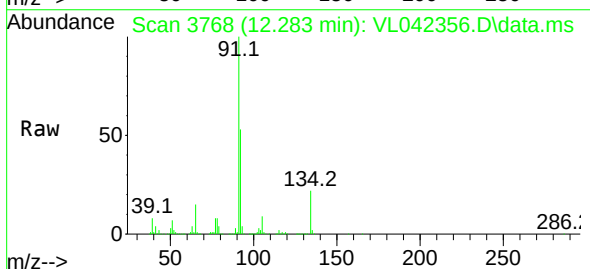
Tgt Ion: 119 Resp: 737861
Ion Ratio Lower Upper
119 100
134 24.5 20.0 30.0
91 30.6 24.4 36.6

Manual Integrations
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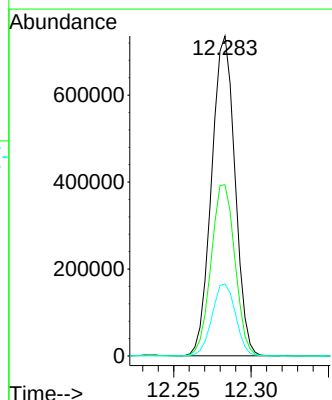
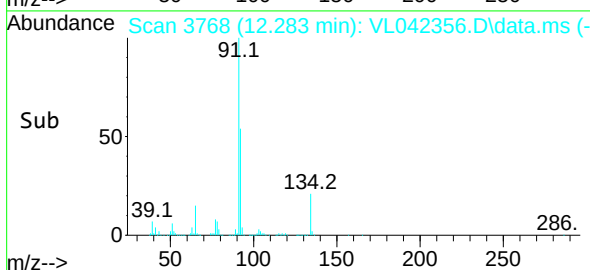
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

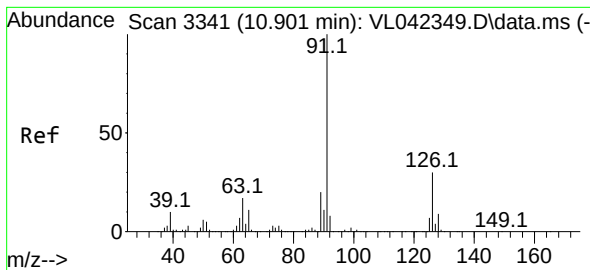


#70
n-Butylbenzene
Concen: 9.255 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43



Tgt Ion: 91 Resp: 771461
Ion Ratio Lower Upper
91 100
92 54.9 44.2 66.4
134 22.7 18.2 27.4





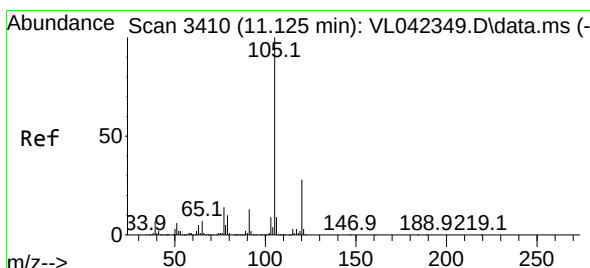
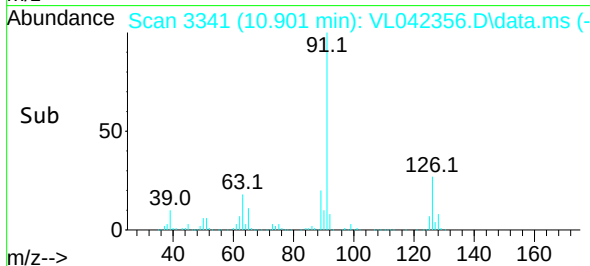
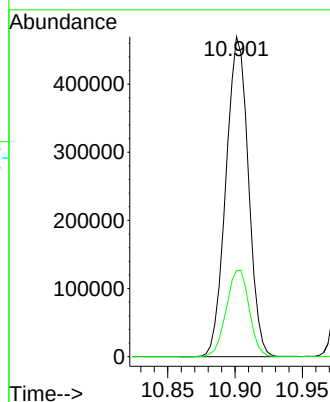
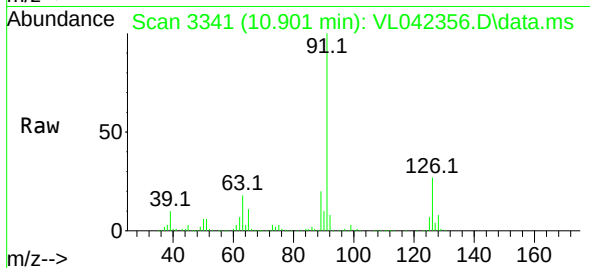
#71
2-Chlorotoluene
Concen: 9.622 ppbv
RT: 10.901 min Scan# 31
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Tgt Ion: 91 Resp: 543794
Ion Ratio Lower Upper
91 100
126 27.5 11.4 45.4

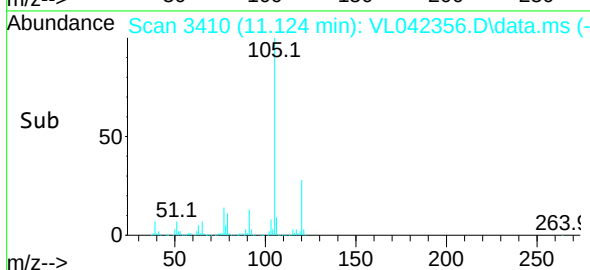
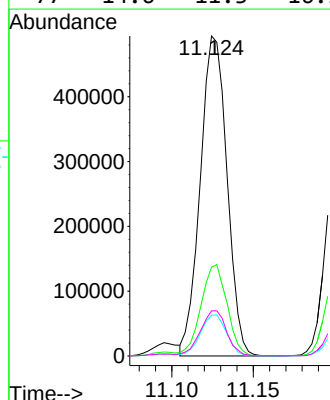
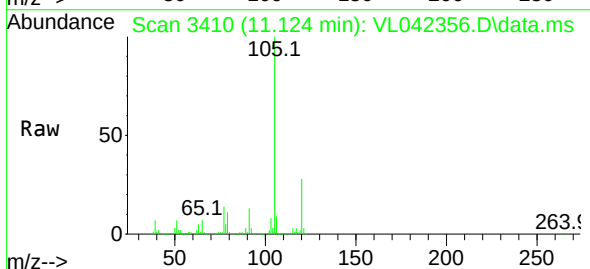
Manual Integrations
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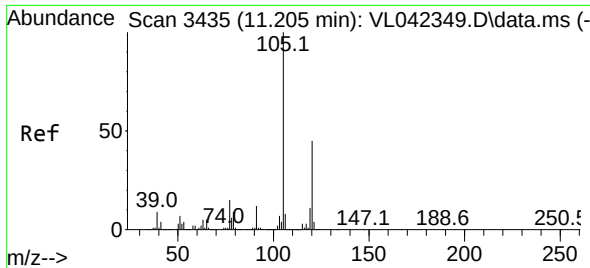
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#72
4-Ethyltoluene
Concen: 9.385 ppbv
RT: 11.124 min Scan# 3410
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

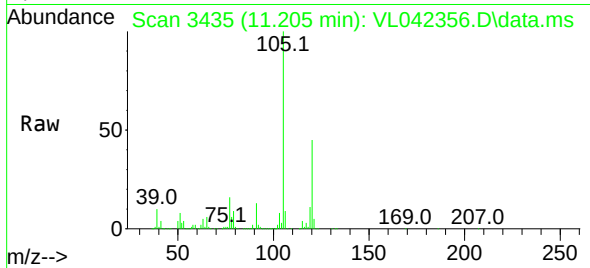
Tgt Ion:105 Resp: 563136
Ion Ratio Lower Upper
105 100
120 28.9 23.2 34.8
91 13.2 10.4 15.6
77 14.6 11.3 16.9





#73
1,3,5-Trimethylbenzene
Concen: 9.186 ppbv
RT: 11.205 min Scan# 3435
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

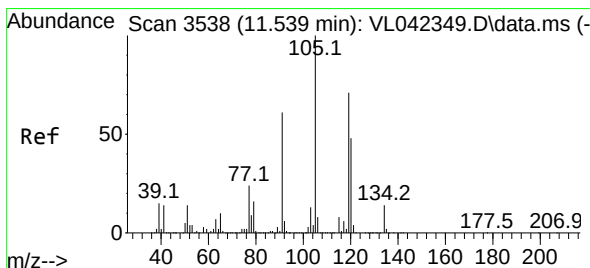
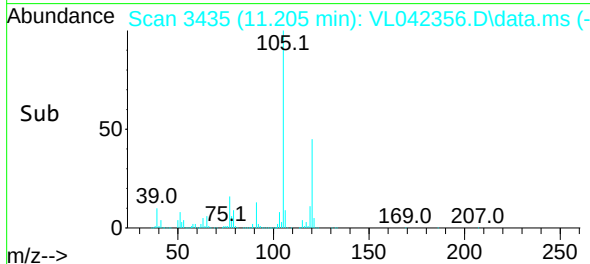
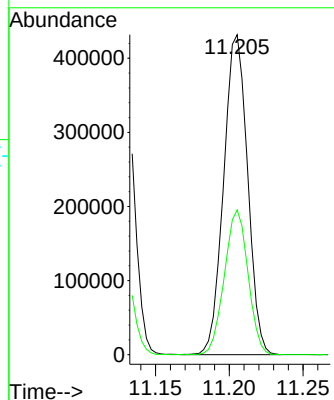
Instrument : MSVOA_L
ClientSampleId : ICVVL041725



Tgt Ion:105 Resp: 48658
Ion Ratio Lower Upper
105 100
120 45.2 35.6 53.4

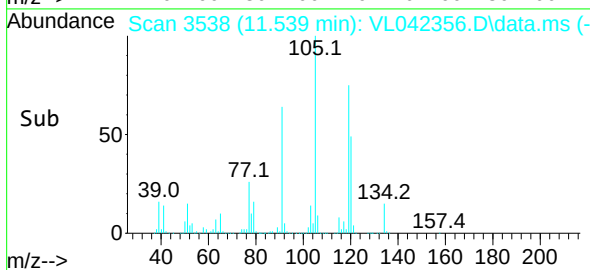
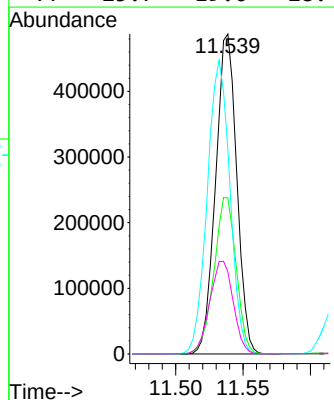
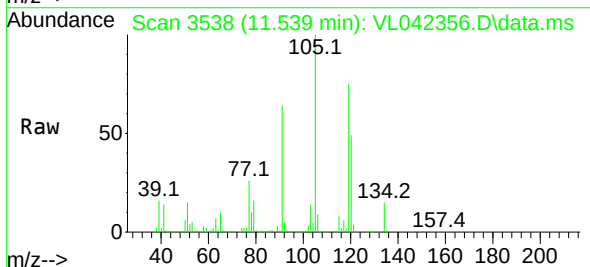
Manual Integrations
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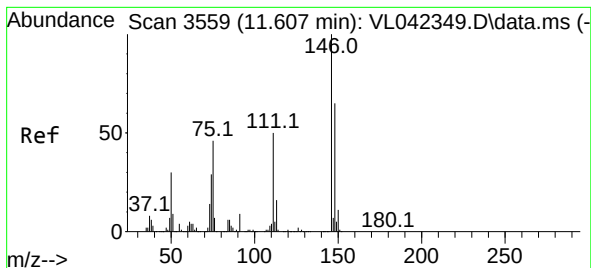
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#74
1,2,4-Trimethylbenzene
Concen: 8.592 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:105 Resp: 531576
Ion Ratio Lower Upper
105 100
120 48.7 38.1 57.1
91 64.0 48.8 73.2
77 25.7 19.0 28.4





#75

1,3-Dichlorobenzene

Concen: 9.240 ppbv

RT: 11.610 min Scan# 3559

Delta R.T. 0.003 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

Instrument :

MSVOA_L

ClientSampleId :

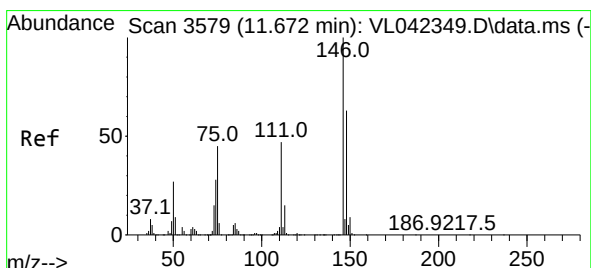
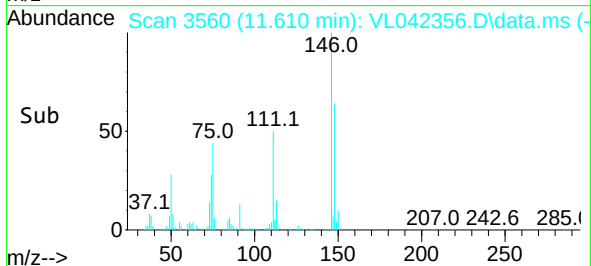
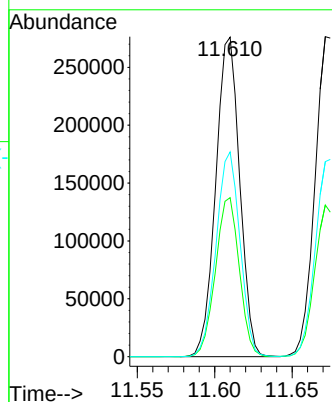
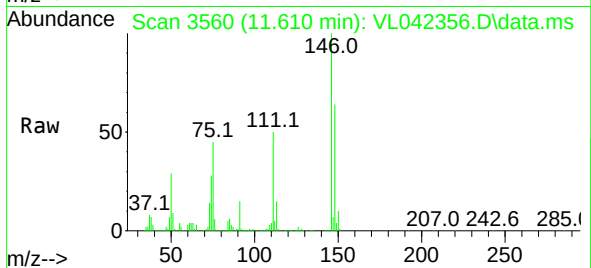
ICVVL041725

Tgt Ion:	146	Resp:	29715
Ion Ratio	Lower	Upper	
146	100		
111	49.5	24.3	72.8
148	64.1	31.6	94.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#76

1,4-Dichlorobenzene

Concen: 9.210 ppbv

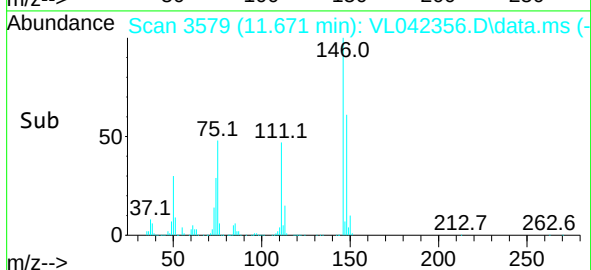
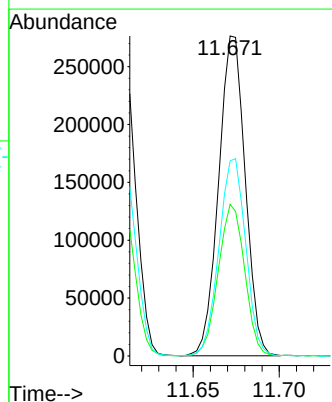
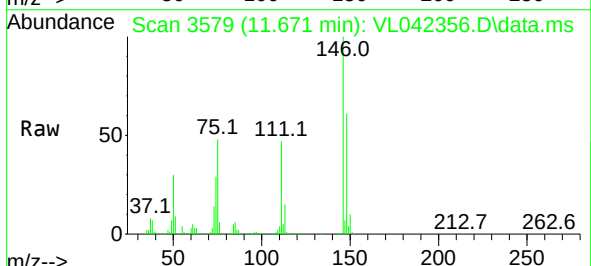
RT: 11.671 min Scan# 3579

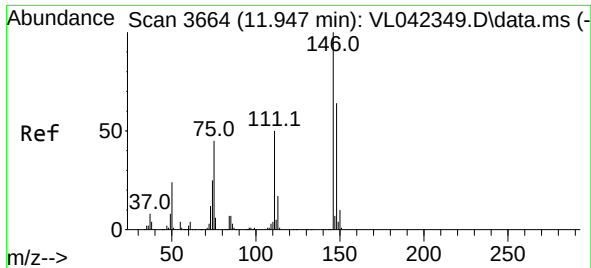
Delta R.T. -0.000 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

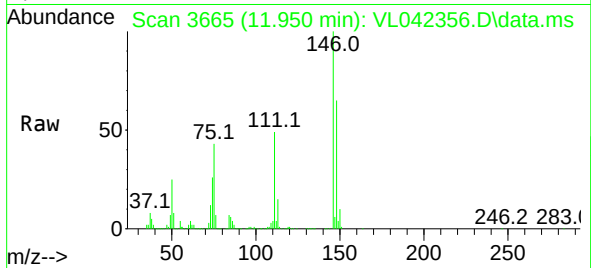
Tgt Ion:	146	Resp:	297697
Ion Ratio	Lower	Upper	
146	100		
111	47.1	24.2	72.6
148	62.3	32.1	96.5





#77
1,2-Dichlorobenzene
Concen: 9.251 ppbv
RT: 11.950 min Scan# 3665
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

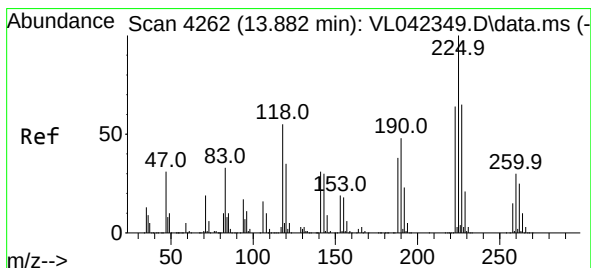
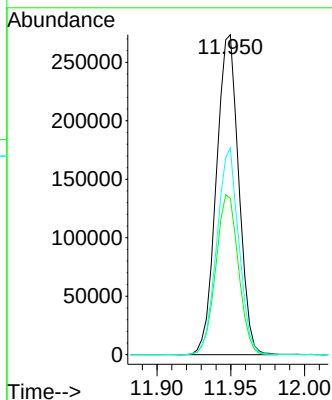
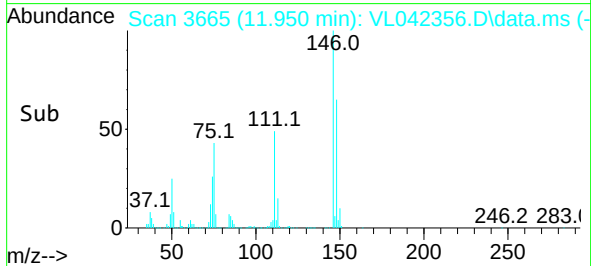
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725



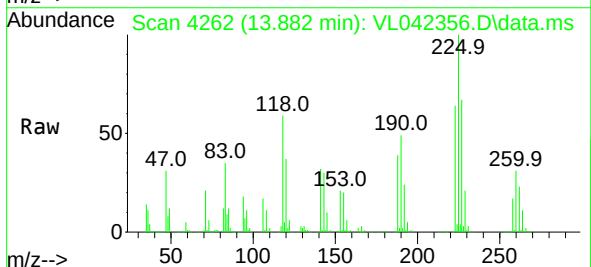
Tgt Ion:146 Resp: 289284
Ion Ratio Lower Upper
146 100
111 50.8 25.3 75.9
148 63.4 31.5 94.5

Manual Integrations
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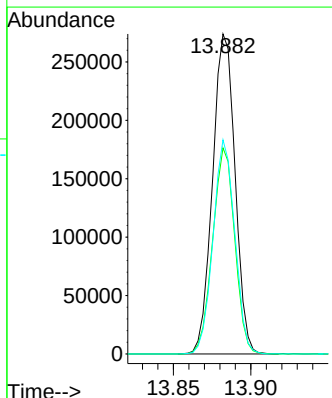
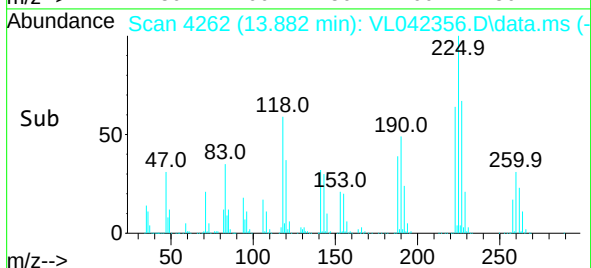
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

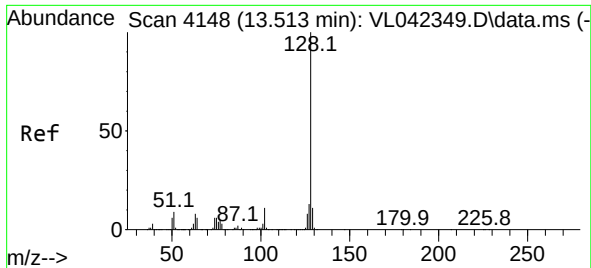


#78
Hexachloro-1,3-Butadiene
Concen: 8.771 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43



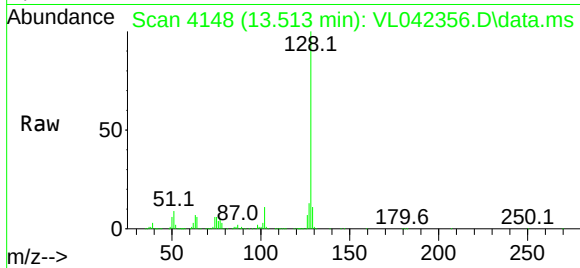
Tgt Ion:225 Resp: 276960
Ion Ratio Lower Upper
225 100
223 63.0 50.3 75.5
227 64.5 51.5 77.3





#79
Naphthalene
Concen: 8.750 ppbv
RT: 13.513 min Scan# 4148
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

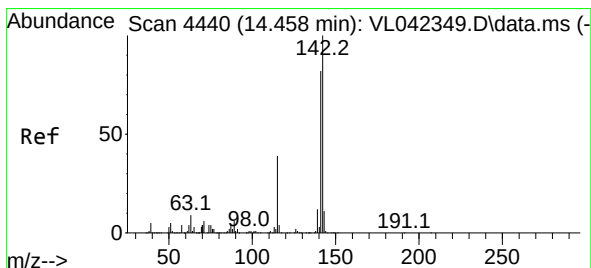
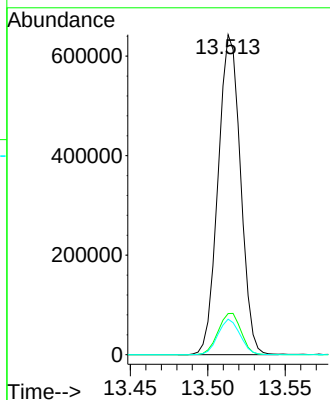
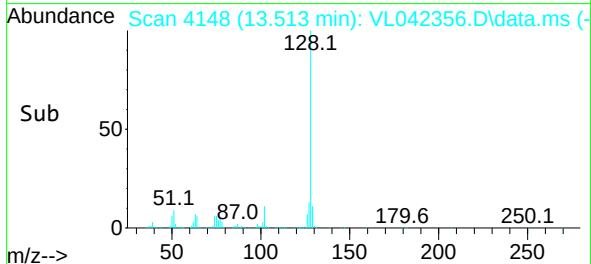
Instrument : MSVOA_L
ClientSampleId : ICVVL041725



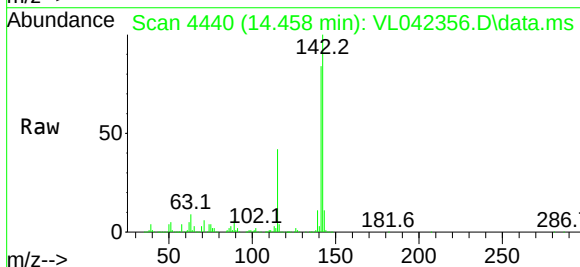
Tgt Ion:128 Resp: 647349
Ion Ratio Lower Upper
128 100
127 12.9 10.6 15.8
129 11.1 8.6 12.8

Manual Integrations
APPROVED

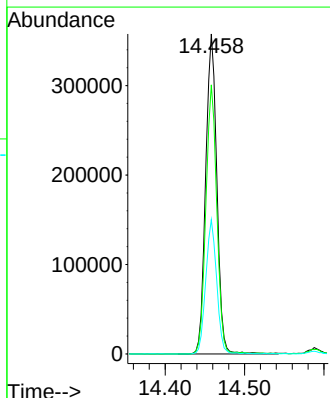
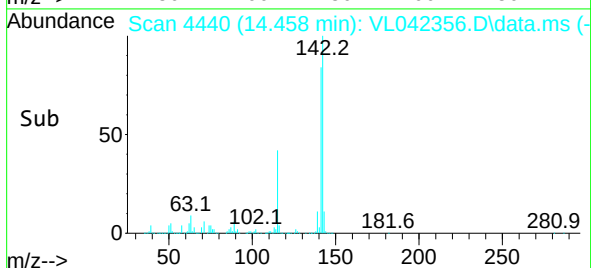
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

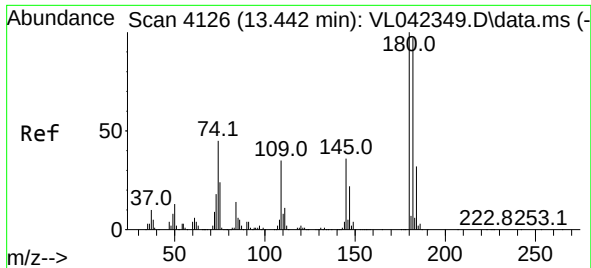


#80
Naphthalene,2-methyl-
Concen: 8.307 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43



Tgt Ion:142 Resp: 350259
Ion Ratio Lower Upper
142 100
141 83.0 66.8 100.2
115 41.4 33.4 50.2





#81

1,2,4-Trichlorobenzene

Concen: 9.136 ppbv

RT: 13.442 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL042356.D

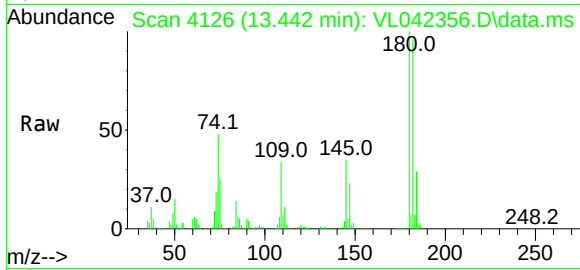
Acq: 17 Apr 2025 13:43

Instrument :

MSVOA_L

ClientSampleId :

ICVVL041725



Tgt Ion:180 Resp: 290260

Ion Ratio Lower Upper

180 100

182 94.7 76.8 115.2

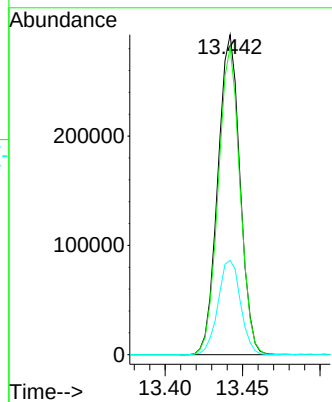
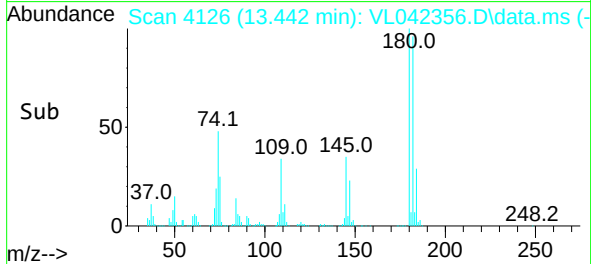
184 30.1 24.6 36.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042356.D
 Acq On : 17 Apr 2025 13:43
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL041725

Quant Time: Apr 18 02:15:19 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 02:14:00 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	91	0.00
2 T	Dichlorodifluoromethane	1.767	1.734	1.9	95	0.00
3	Chlorodifluoromethane	1.682	1.676	0.4	97	0.00
4	Chloromethane	0.699	0.685	2.0	95	0.00
5 T	Vinyl Chloride	0.761	0.663	12.9	94	0.00
6 T	Bromomethane	0.327	0.308	5.8	92	0.00
7	Chloroethane	0.275	0.265	3.6	95	0.00
8 T	Dichlorotetrafluoroethane	1.517	1.516	0.1	96	0.00
9 T	Propene	0.766	0.742	3.1	98	0.00
10 T	Heptane	2.153	1.946	9.6	94	0.00
11 T	Trichlorofluoromethane	1.680	1.648	1.9	96	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.374	1.303	5.2	92	0.00
13	Ethanol	0.122	0.037#	69.7#	94	0.00
14 T	Bromoethene	0.518	0.512	1.2	95	0.00
15 T	Acetone	1.637	1.392	15.0	100	0.00
16 T	1,3-Butadiene	0.783	0.691	11.7	96	0.00
17	tert-Butyl alcohol	2.029	1.921	5.3	97	0.00
18 T	1,1-Dichloroethene	0.642	0.596	7.2	93	0.00
19 T	Isopropyl Alcohol	0.909	0.845	7.0	94	0.00
20 T	Methylene Chloride	0.641	0.519	19.0	95	0.00
21 T	Allyl Chloride	1.130	1.059	6.3	99	0.00
22 T	trans-1,2-Dichloroethene	0.731	0.685	6.3	94	0.00
23 T	Vinyl Acetate	0.663	0.644	2.9	105	0.00
24 T	1,1-Dichloroethane	1.388	1.365	1.7	97	0.00
25 T	Ethyl Acetate	4.036	3.939	2.4	97	0.00
26 T	Hexane	1.633	1.542	5.6	98	0.00
27 T	Carbon Disulfide	1.749	1.677	4.1	91	0.00
28 T	Methyl tert-Butyl Ether	1.070	1.011	5.5	98	0.00
29 T	Chloroform	2.309	2.288	0.9	97	0.00
30 T	Cyclohexane	1.320	1.300	1.5	94	0.00
31 T	cis-1,2-Dichloroethene	1.553	1.579	-1.7	98	0.00
32 T	1,1,1-Trichloroethane	2.599	2.426	6.7	97	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	89	0.00
34 T	2-Butanone	0.791	0.767	3.0	99	0.00
35 T	Carbon Tetrachloride	0.905	0.838	7.4	96	0.00
36 T	Benzene	1.079	1.080	-0.1	95	0.00
37 T	1,2-Dichloroethane	0.647	0.653	-0.9	98	0.00
38 T	Trichloroethene	0.471	0.431	8.5	97	0.00
39 T	1,2-Dichloropropane	0.402	0.398	1.0	95	0.00
40 T	1,4-Dioxane	0.221	0.190	14.0	92	0.00
41 T	Tetrahydrofuran	0.461	0.437	5.2	95	0.00
42 T	Bromodichloromethane	0.901	0.915	-1.6	95	0.00
43	Methyl Methacrylate	0.486	0.460	5.3	95	0.00
44 T	2,2,4-Trimethylpentane	1.863	1.868	-0.3	97	0.00
45 T	t-1,3-Dichloropropene	0.497	0.495	0.4	96	0.00
46 T	cis-1,3-Dichloropropene	0.608	0.617	-1.5	96	0.00
47 T	1,1,2-Trichloroethane	0.410	0.418	-2.0	98	0.00
48 T	Dibromochloromethane	0.723	0.731	-1.1	95	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042356.D
 Acq On : 17 Apr 2025 13:43
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL041725

Quant Time: Apr 18 02:15:19 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 02:14:00 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	Bromoform	0.633	0.634	-0.2	91	0.00
50 T	4-Methyl-2-Pentanone	1.314	1.159	11.8	95	0.00
51 T	2-Hexanone	1.179	0.957	18.8	95	0.00
52 T	Tetrachloroethene	0.417	0.368	11.8	91	0.00
53 T	Toluene	1.294	1.293	0.1	96	0.00
54 T	1,2-Dibromoethane	0.586	0.574	2.0	94	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	90	0.00
56	1,1,1,2-Tetrachloroethane	0.605	0.598	1.2	98	0.00
57 T	Chlorobenzene	1.040	0.997	4.1	94	0.00
58 T	Ethyl Benzene	1.981	1.911	3.5	94	0.00
59 T	m/p-Xylene	1.596	1.527	4.3	95	-0.02
60 T	o-Xylene	1.607	1.521	5.4	95	0.00
61 T	Styrene	0.767	0.753	1.8	94	0.00
62	Isopropylbenzene	2.360	2.246	4.8	93	0.00
63 T	1,1,2,2-Tetrachloroethane	1.042	0.914	12.3	95	0.00
64	n-propylbenzene	0.593	0.565	4.7	94	0.00
65	tert-Butylbenzene	2.169	1.996	8.0	95	0.00
66 T	Benzyl Chloride	0.238	0.206	13.4	76	0.00
67	sec-Butylbenzene	3.017	2.796	7.3	95	0.00
68 S	1-Bromo-4-Fluorobenzene	0.822	0.819	0.4	89	0.00
69	p-Isopropyltoluene	2.621	2.416	7.8	95	0.00
70	n-Butylbenzene	2.730	2.526	7.5	96	0.00
71	2-Chlorotoluene	1.851	1.781	3.8	95	0.00
72 T	4-Ethyltoluene	1.965	1.844	6.2	94	0.00
73 T	1,3,5-Trimethylbenzene	1.735	1.593	8.2	95	0.00
74 T	1,2,4-Trimethylbenzene	2.026	1.741	14.1	94	0.00
75 T	1,3-Dichlorobenzene	1.053	0.973	7.6	93	0.00
76 T	1,4-Dichlorobenzene	1.059	0.975	7.9	93	0.00
77 T	1,2-Dichlorobenzene	1.024	0.947	7.5	95	0.00
78 T	Hexachloro-1,3-Butadiene	1.034	0.907	12.3	95	0.00
79 T	Naphthalene	2.423	2.120	12.5	96	0.00
80 T	Naphthalene,2-methyl-	1.381	1.147	16.9	93	0.00
81 T	1,2,4-Trichlorobenzene	1.040	0.951	8.6	95	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



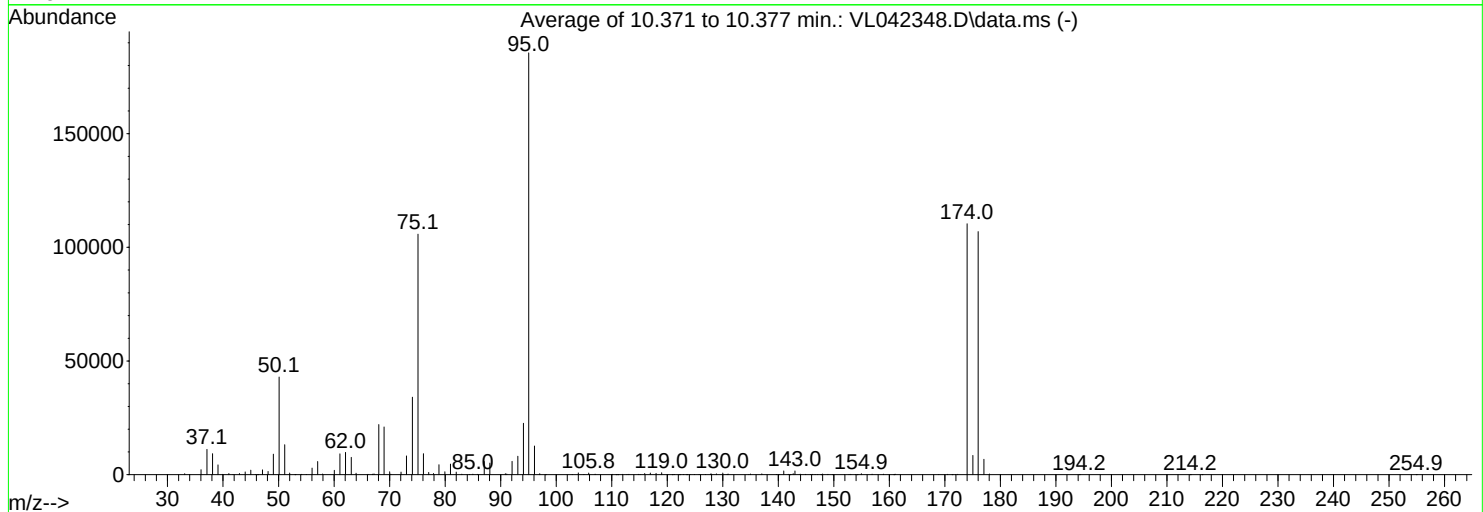
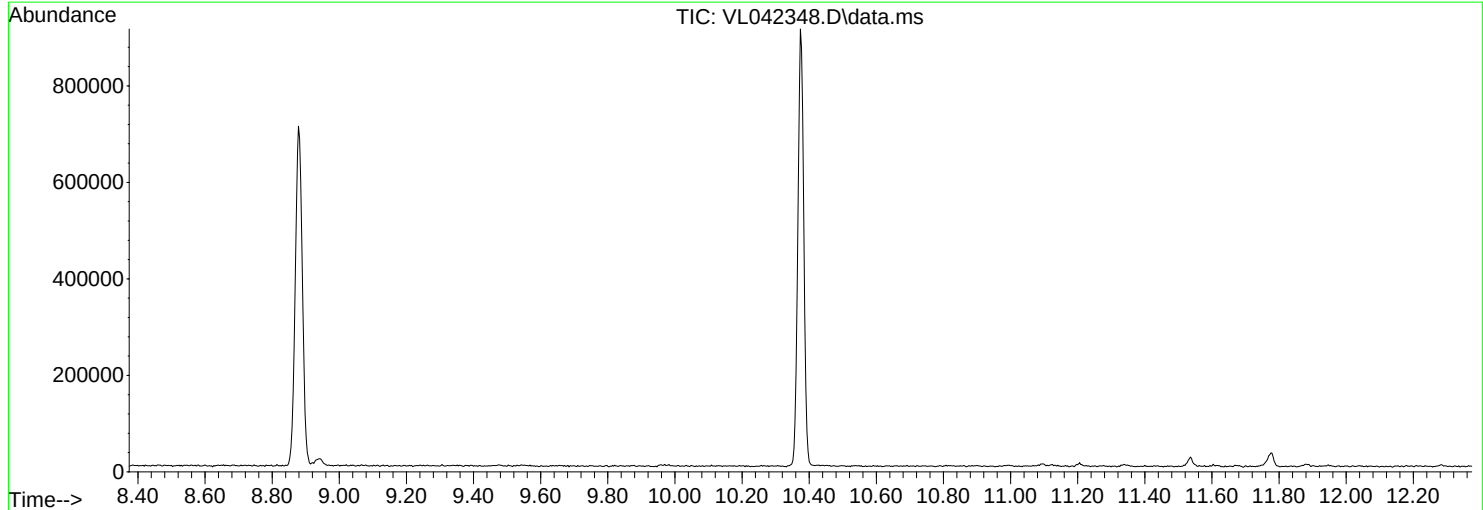
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042348.D
Acq On : 17 Apr 2025 07:50
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Fri Apr 18 02:14:00 2025



AutoFind: Scans 3177, 3178, 3179; Background Corrected with Scan 3162

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	8	40	23.1	42933	PASS
75	95	30	66	57.0	105781	PASS
95	95	100	100	100.0	185564	PASS
96	95	5	9	6.8	12627	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	59.5	110360	PASS
175	174	4	9	7.6	8420	PASS
176	174	93	101	96.9	106933	PASS
177	176	5	9	6.3	6744	PASS

Report of Analysis

Client:	Woodard & Curran	Date Collected:	
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	
Client Sample ID:	VL0417ABL01	SDG No.:	Q1668
Lab Sample ID:	VL0417ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042357.D	1		04/17/25 14:23	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.21	1.04	U	1.04	2.47	ug/m3
74-87-3	Chloromethane	0.10	0.21	U	0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	0.010	0.030	U	0.030	0.080	ug/m3
74-83-9	Bromomethane	0.14	0.54	U	0.54	1.94	ug/m3
75-00-3	Chloroethane	0.17	0.45	U	0.45	1.32	ug/m3
109-99-9	Tetrahydrofuran	0.13	0.38	U	0.38	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.16	0.90	U	0.90	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	0.16	1.23	U	1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	0.090	0.63	U	0.63	3.49	ug/m3
75-65-0	tert-Butyl alcohol	0.19	0.58	U	0.58	1.52	ug/m3
142-82-5	Heptane	0.11	0.45	U	0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
67-64-1	Acetone	0.24	0.57	U	0.57	1.19	ug/m3
75-15-0	Carbon Disulfide	0.16	0.50	U	0.50	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	0.12	0.43	U	0.43	1.80	ug/m3
75-09-2	Methylene Chloride	0.19	0.66	U	0.66	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.19	0.75	U	0.75	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.13	0.53	U	0.53	2.02	ug/m3
110-82-7	Cyclohexane	0.22	0.76	U	0.76	1.72	ug/m3
78-93-3	2-Butanone	0.12	0.35	U	0.35	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.010	0.060	U	0.060	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.090	0.36	U	0.36	1.98	ug/m3
67-66-3	Chloroform	0.080	0.39	U	0.39	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.010	0.050	U	0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.10	0.47	U	0.47	2.34	ug/m3
71-43-2	Benzene	0.090	0.29	U	0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.090	0.36	U	0.36	2.02	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	0.11	0.51	U	0.51	2.31	ug/m3
75-27-4	Bromodichloromethane	0.080	0.54	U	0.54	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	0.090	0.37	U	0.37	2.05	ug/m3
108-88-3	Toluene	0.11	0.41	U	0.41	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	0.060	0.27	U	0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	0.070	0.38	U	0.38	2.73	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	
Client Sample ID:	VL0417ABL01	SDG No.:	Q1668
Lab Sample ID:	VL0417ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042357.D	1		04/17/25 14:23	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	0.070	0.60	U	0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	0.070	0.54	U	0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	ug/m3
108-90-7	Chlorobenzene	0.080	0.37	U	0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	0.12	0.52	U	0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	0.21	0.91	U	0.91	4.34	ug/m3
95-47-6	o-Xylene	0.12	0.52	U	0.52	2.17	ug/m3
100-42-5	Styrene	0.11	0.47	U	0.47	2.13	ug/m3
75-25-2	Bromoform	0.060	0.62	U	0.62	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.010	0.070	U	0.070	0.21	ug/m3
95-49-8	2-Chlorotoluene	0.11	0.57	U	0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.11	0.54	U	0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.080	0.39	U	0.39	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.050	0.30	U	0.30	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	0.080	0.48	U	0.48	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	0.090	0.67	U	0.67	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	0.090	0.96	U	0.96	5.33	ug/m3
106-99-0	1,3-Butadiene	0.13	0.29	U	0.29	1.11	ug/m3
91-20-3	Naphthalene	0.080	0.42	U	0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	0.12	0.59	U	0.59	2.46	ug/m3
110-54-3	Hexane	0.11	0.39	U	0.39	1.76	ug/m3
107-05-1	Allyl Chloride	0.15	0.47	U	0.47	1.57	ug/m3
123-91-1	1,4-Dioxane	0.21	0.76	U	0.76	1.80	ug/m3
80-62-6	Methyl Methacrylate	0.090	0.37	U	0.37	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.1			70 (65) - 130 (135)	101%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	114000		2.79			
540-36-3	1,4-Difluorobenzene	329000		3.965			
3114-55-4	Chlorobenzene-d5	298000		8.885			

Report of Analysis

Client:	Woodard & Curran	Date Collected:	
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	
Client Sample ID:	VL0417ABL01	SDG No.:	Q1668
Lab Sample ID:	VL0417ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042357.D	1		04/17/25 14:23	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit
E = Value Exceeds Calibration Range
D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042357.D
 Acq On : 17 Apr 2025 14:23
 Operator : SY/MD
 Sample : VL0417ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0417ABL01

Quant Time: Apr 18 02:36:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 02:14:00 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	113566	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	328716	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	297633	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	247968	10.139	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.400%

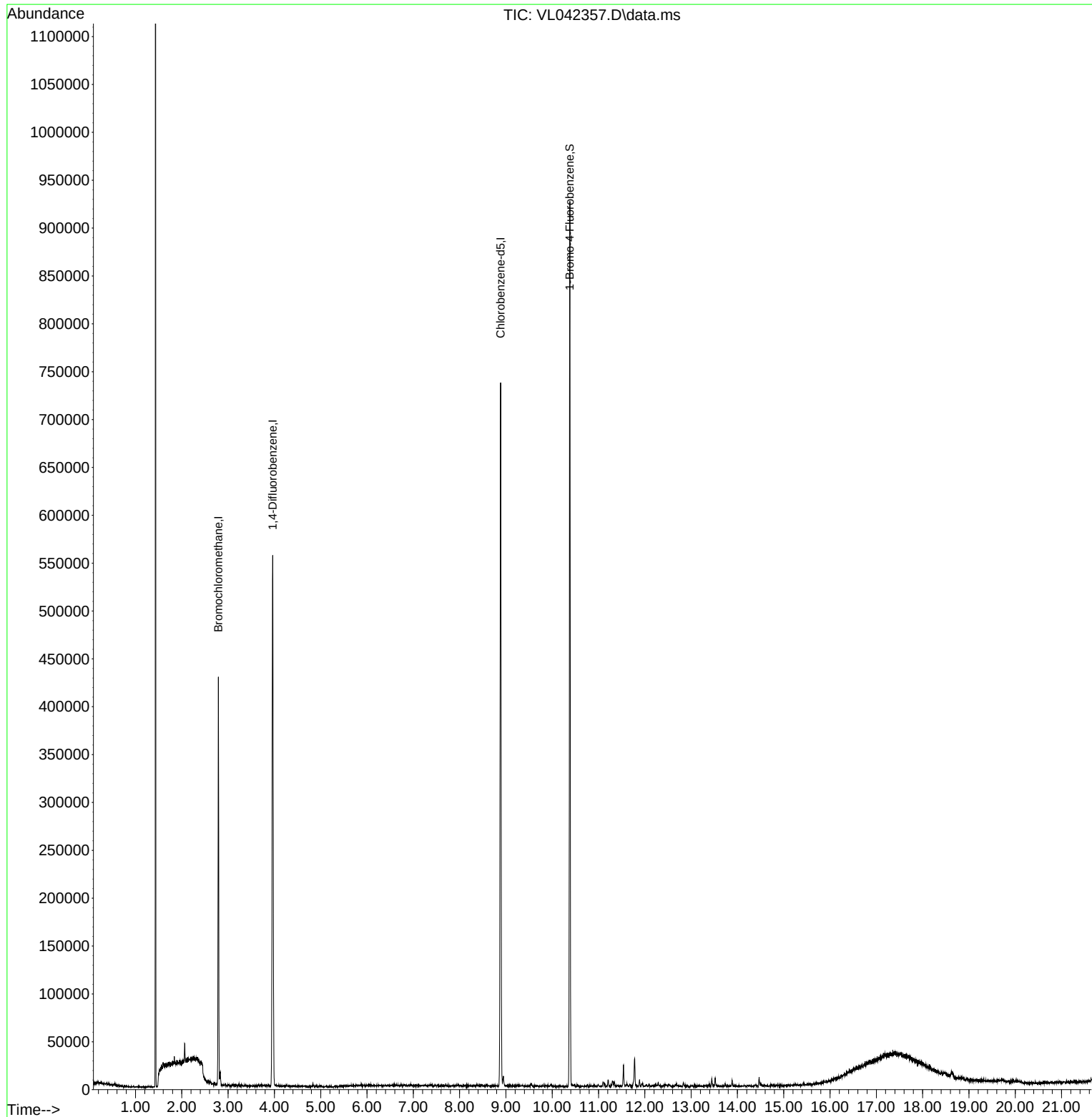
Target Compounds	Qvalue

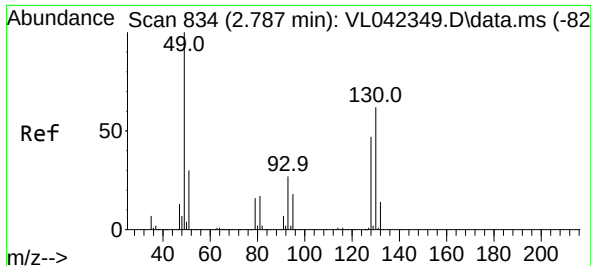
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042357.D
Acq On : 17 Apr 2025 14:23
Operator : SY/MD
Sample : VL0417ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABL01

Quant Time: Apr 18 02:36:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

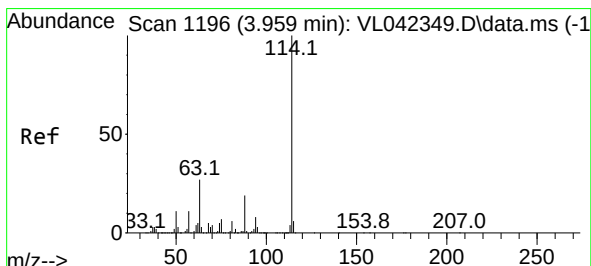
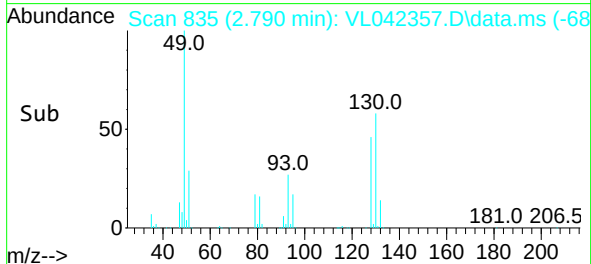
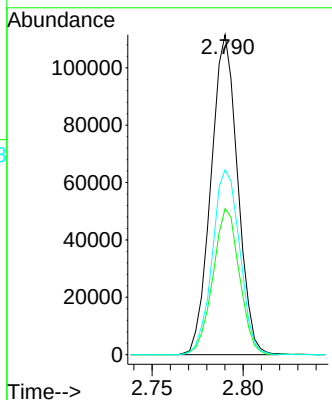
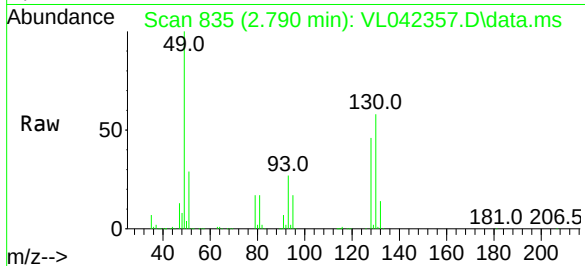




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.790 min Scan# 81
 Delta R.T. 0.003 min
 Lab File: VL042357.D
 Acq: 17 Apr 2025 14:23

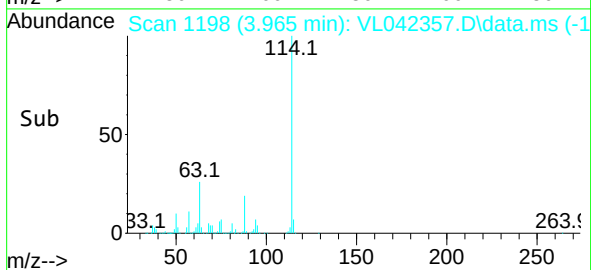
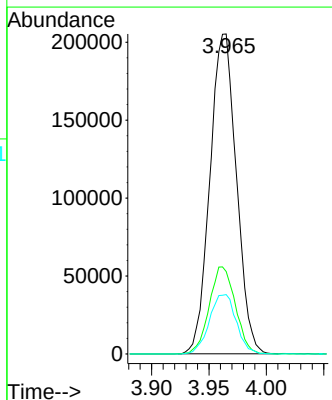
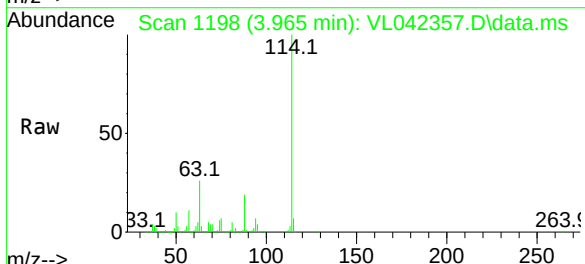
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0417ABL01

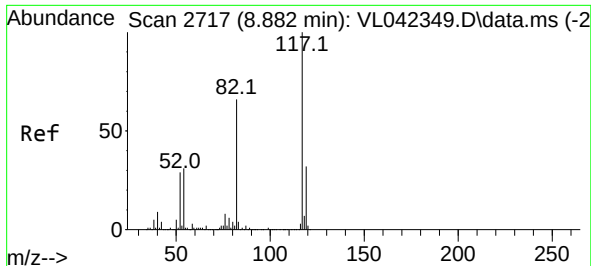
Tgt Ion: 49 Resp: 113566
 Ion Ratio Lower Upper
 49 100
 128 45.4 22.8 68.4
 130 59.4 29.3 88.0



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.965 min Scan# 1198
 Delta R.T. 0.006 min
 Lab File: VL042357.D
 Acq: 17 Apr 2025 14:23

Tgt Ion: 114 Resp: 328716
 Ion Ratio Lower Upper
 114 100
 63 27.0 21.8 32.6
 88 18.9 15.5 23.3

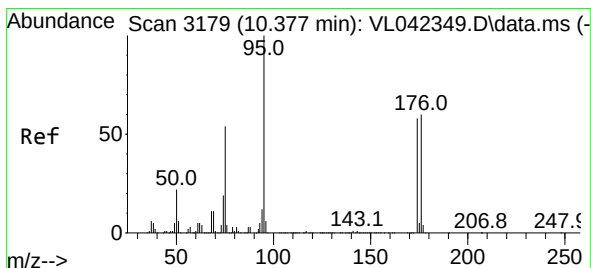
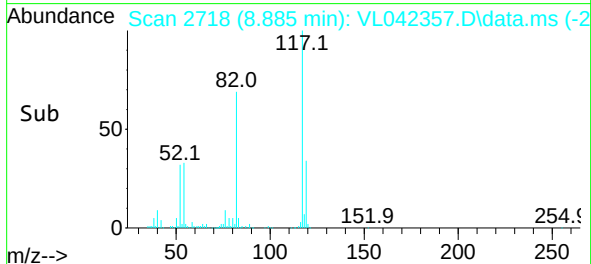
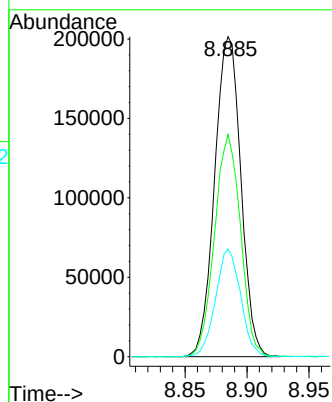
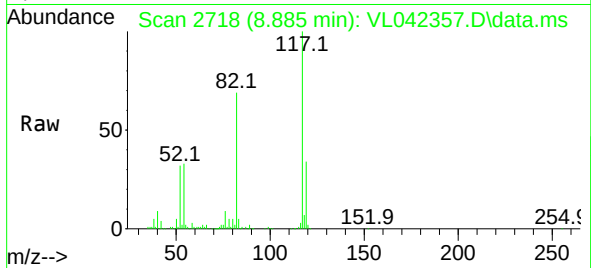




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042357.D
Acq: 17 Apr 2025 14:23

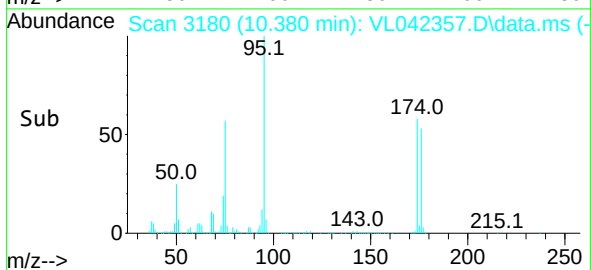
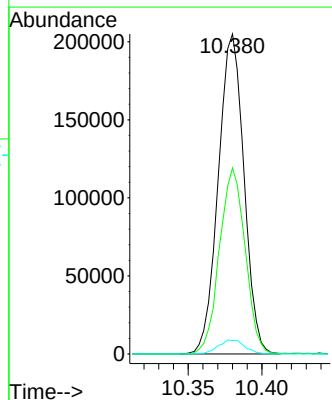
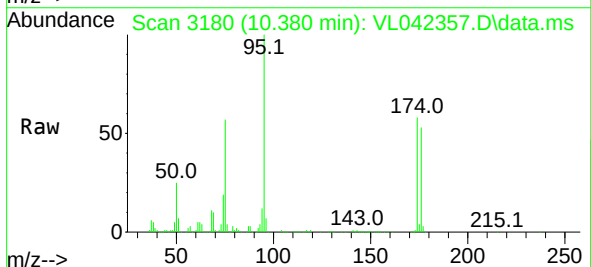
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABL01

Tgt Ion:117 Resp: 297633
Ion Ratio Lower Upper
117 100
82 68.6 57.8 86.6
119 32.2 25.2 37.8



#68
1-Bromo-4-Fluorobenzene
Concen: 10.139 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. 0.003 min
Lab File: VL042357.D
Acq: 17 Apr 2025 14:23

Tgt Ion: 95 Resp: 247968
Ion Ratio Lower Upper
95 100
174 58.2 48.5 72.7
175 4.5 3.7 5.5



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042357.D
 Acq On : 17 Apr 2025 14:23
 Operator : SY/MD
 Sample : VL0417ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0417ABL01

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 3

Min Area: 3 % of largest Peak

Start Thrs: 0.001

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

Signal : TIC: VL042357.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.431	411	415	420	rBV	1858765	1108891	96.98%	23.258%
2	1.515	427	441	442	rBV8	17527	27664	2.42%	0.580%
3	2.437	724	726	736	rVB6	14850	19624	1.72%	0.412%
4	2.790	826	835	842	rBV	426285	437188	38.23%	9.169%
5	3.962	1184	1197	1210	rBV2	554736	884344	77.34%	18.548%
6	8.885	2707	2718	2730	rBV	733994	1074923	94.01%	22.545%
7	10.380	3166	3180	3191	rBV	925373	1143427	100.00%	23.982%
8	11.539	3527	3538	3547	rBV3	22959	29990	2.62%	0.629%
9	11.778	3599	3612	3619	rBV4	29173	41816	3.66%	0.877%

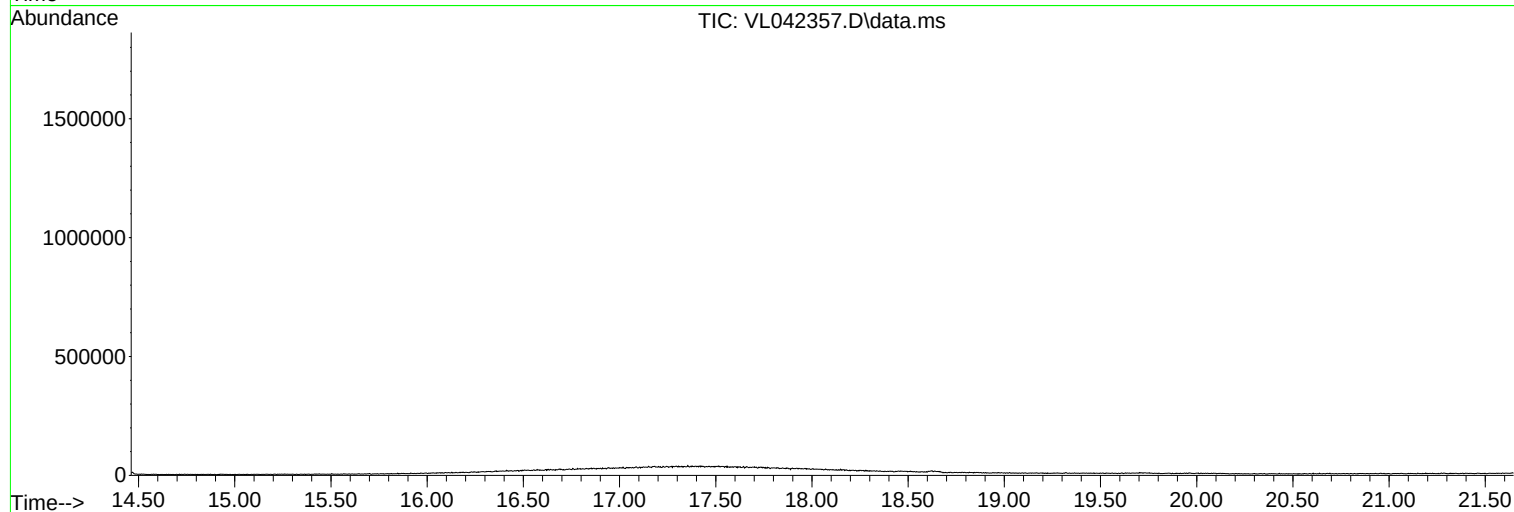
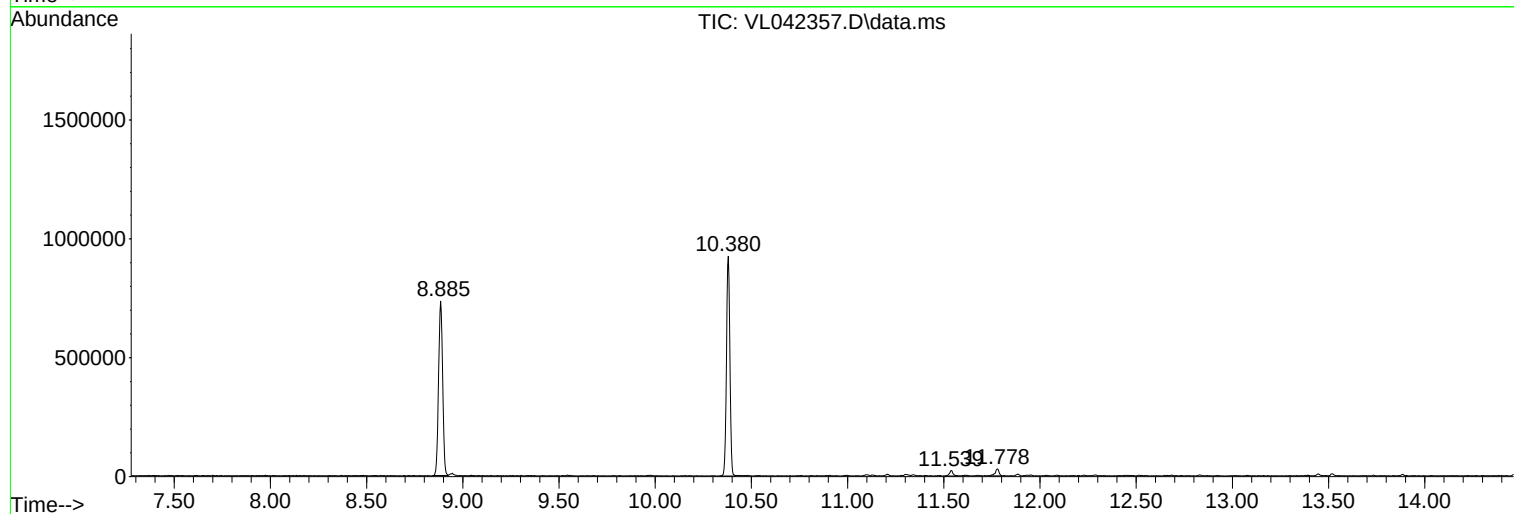
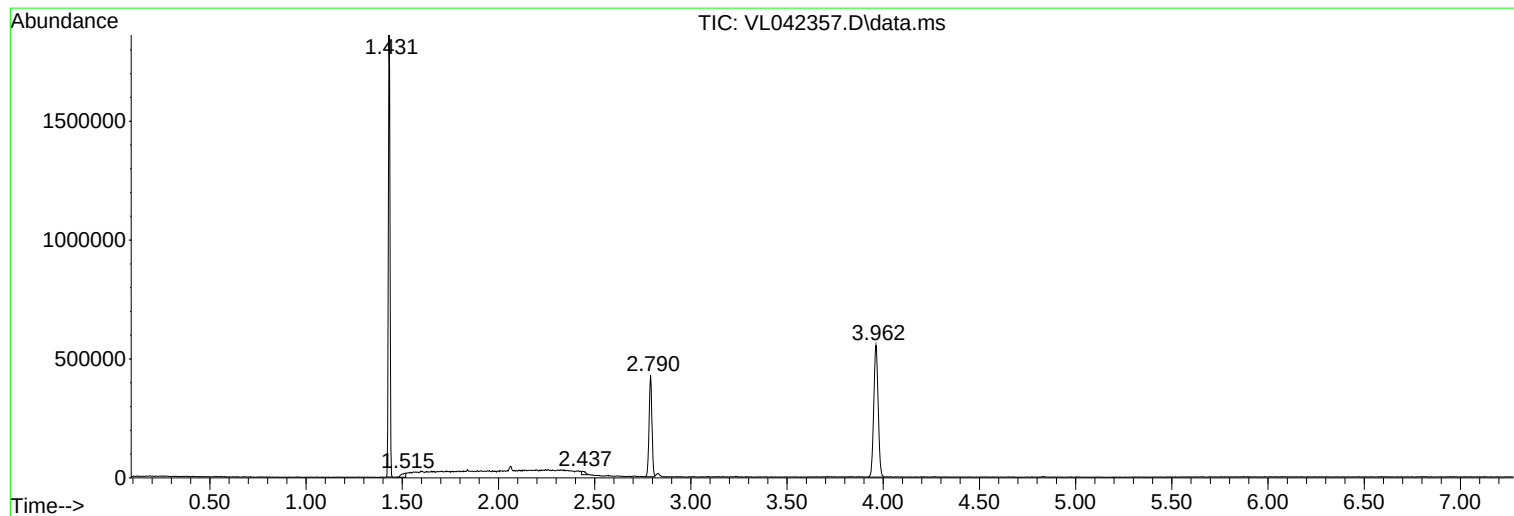
Sum of corrected areas: 4767867

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042357.D
Acq On : 17 Apr 2025 14:23
Operator : SY/MD
Sample : VL0417ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042357.D
Acq On : 17 Apr 2025 14:23
Operator : SY/MD
Sample : VL0417ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042357.D
Acq On : 17 Apr 2025 14:23
Operator : SY/MD
Sample : VL0417ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

Report of Analysis

Client:	Woodard & Curran	Date Collected:	
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	
Client Sample ID:	VL0417ABS01	SDG No.:	Q1668
Lab Sample ID:	VL0417ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042358.D	1		04/17/25 15:39	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	10.3	50.9		1.04	2.47	ug/m3
74-87-3	Chloromethane	10.1	20.9		0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	9.00	23.0		0.030	0.080	ug/m3
74-83-9	Bromomethane	9.20	35.7		0.54	1.94	ug/m3
75-00-3	Chloroethane	10.1	26.6		0.45	1.32	ug/m3
109-99-9	Tetrahydrofuran	9.70	28.6		0.38	1.47	ug/m3
75-69-4	Trichlorofluoromethane	10.1	56.8		0.90	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	10.1	77.4		1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	10.2	71.3		0.63	3.49	ug/m3
75-65-0	tert-Butyl alcohol	9.80	29.7		0.58	1.52	ug/m3
142-82-5	Heptane	9.20	37.7		0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	9.80	38.9		0.56	1.98	ug/m3
67-64-1	Acetone	8.70	20.7		0.57	1.19	ug/m3
75-15-0	Carbon Disulfide	10.2	31.8		0.50	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	9.50	34.3		0.43	1.80	ug/m3
75-09-2	Methylene Chloride	8.90	30.9		0.66	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	9.70	38.5		0.75	1.98	ug/m3
75-34-3	1,1-Dichloroethane	10.2	41.3		0.53	2.02	ug/m3
110-82-7	Cyclohexane	10.1	34.8		0.76	1.72	ug/m3
78-93-3	2-Butanone	9.80	28.9		0.35	1.47	ug/m3
56-23-5	Carbon Tetrachloride	9.60	60.4		0.060	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	10.4	41.2		0.36	1.98	ug/m3
67-66-3	Chloroform	10.2	49.8		0.39	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	9.70	52.9		0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	10.0	46.7		0.47	2.34	ug/m3
71-43-2	Benzene	10.1	32.3		0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	10.4	42.1		0.36	2.02	ug/m3
79-01-6	Trichloroethene	9.30	50.0		0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	9.90	45.8		0.51	2.31	ug/m3
75-27-4	Bromodichloromethane	10.3	69.0		0.54	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	8.80	36.1		0.37	2.05	ug/m3
108-88-3	Toluene	9.80	36.9		0.41	1.88	ug/m3
10061-02-6	t-1,3-Dichloropropene	9.90	44.9		0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	10.1	45.9		0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	10.2	55.6		0.38	2.73	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	
Client Sample ID:	VL0417ABS01	SDG No.:	Q1668
Lab Sample ID:	VL0417ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042358.D	1		04/17/25 15:39	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
124-48-1	Dibromochloromethane	10.3	87.8		0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	9.90	76.1		0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	8.80	59.7		0.14	0.20	ug/m3
108-90-7	Chlorobenzene	10.0	46.0		0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	10.0	43.4		0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	19.8	86.0		0.91	4.34	ug/m3
95-47-6	o-Xylene	9.80	42.6		0.52	2.17	ug/m3
100-42-5	Styrene	10.1	43.0		0.47	2.13	ug/m3
75-25-2	Bromoform	9.90	102		0.62	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	8.90	61.1		0.070	0.21	ug/m3
95-49-8	2-Chlorotoluene	9.90	51.3		0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	9.60	47.2		0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	9.00	44.3		0.39	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	9.50	57.1		0.48	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	9.40	56.5		0.30	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	9.50	57.1		0.48	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	9.40	69.8		0.67	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	9.10	97.1		0.96	5.33	ug/m3
106-99-0	1,3-Butadiene	9.10	20.1		0.29	1.11	ug/m3
91-20-3	Naphthalene	9.00	47.2		0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	9.60	47.2		0.59	2.46	ug/m3
110-54-3	Hexane	9.80	34.5		0.39	1.76	ug/m3
107-05-1	Allyl Chloride	9.70	30.4		0.47	1.57	ug/m3
123-91-1	1,4-Dioxane	8.70	31.4		0.76	1.80	ug/m3
80-62-6	Methyl Methacrylate	9.30	38.1		0.37	2.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.1			70 (65) - 130 (135)	101%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	122000			2.79		
540-36-3	1,4-Difluorobenzene	352000			3.965		
3114-55-4	Chlorobenzene-d5	322000			8.888		

Report of Analysis

Client:	Woodard & Curran	Date Collected:	
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	
Client Sample ID:	VL0417ABS01	SDG No.:	Q1668
Lab Sample ID:	VL0417ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	TO-15
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042358.D	1		04/17/25 15:39	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
 RL = Reporting Limit
 MDL = Method Detection Limit
 E = Value Exceeds Calibration Range
 D = Dilution

J = Estimated Value
 B = Analyte Found in Associated Method Blank
 N = Presumptive Evidence of a Compound
 * = Values outside of QC limits
 Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042358.D
 Acq On : 17 Apr 2025 15:39
 Operator : SY/MD
 Sample : VL0417ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0417ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 02:36:58 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025

QLast Update : Fri Apr 18 02:14:00 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	122375	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	352201	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	321521	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 266757 10.096 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.000%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	223505	10.337	ppbv	97
3) Chlorodifluoromethane	1.476	51	206172	10.014	ppbv	100
4) Chloromethane	1.535	50	86675	10.130	ppbv	98
5) Vinyl Chloride	1.583	62	83419	8.956	ppbv	98
6) Bromomethane	1.670	94	36951	9.235	ppbv	83
7) Chloroethane	1.706	64	33936	10.075	ppbv	100
8) Dichlorotetrafluoroethane	1.557	85	189924	10.231	ppbv	95
9) Propene	1.486	41	88088	9.395	ppbv	98
10) Heptane	4.985	43	243501	9.244	ppbv	99
11) Trichlorofluoromethane	1.881	101	206645	10.050	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.140	101	169501	10.083	ppbv	98
13) Ethanol	1.722	45	4837	3.246	ppbv	88
14) Bromoethene	1.784	108	62214	9.818	ppbv	98
15) Acetone	1.836	43	175153	8.743	ppbv	100
16) 1,3-Butadiene	1.609	39	86965	9.076	ppbv	96
17) tert-Butyl alcohol	2.043	59	242154	9.754	ppbv	100
18) 1,1-Dichloroethene	2.036	96	77247	9.836	ppbv	99
19) Isopropyl Alcohol	1.887	45	104123	9.356	ppbv	94
20) Methylene Chloride	2.062	84	69548	8.865	ppbv	91
21) Allyl Chloride	2.098	41	134221	9.704	ppbv	99
22) trans-1,2-Dichloroethene	2.344	96	86323	9.653	ppbv	97
23) Vinyl Acetate	2.467	43	68337	8.427	ppbv #	97
24) 1,1-Dichloroethane	2.412	63	173238	10.199	ppbv	99
25) Ethyl Acetate	2.839	43	488686	9.894	ppbv	100
26) Hexane	2.829	57	195124	9.761	ppbv	97
27) Carbon Disulfide	2.153	76	218345	10.202	ppbv	97
28) Methyl tert-Butyl Ether	2.444	73	124554	9.510	ppbv	96
29) Chloroform	2.852	83	289294	10.239	ppbv	99
30) Cyclohexane	3.862	84	163017	10.088	ppbv	100
31) cis-1,2-Dichloroethene	2.726	61	198108	10.424	ppbv	98
32) 1,1,1-Trichloroethane	3.373	97	309460	9.729	ppbv	99
34) 2-Butanone	2.561	43	272600	9.787	ppbv	99
35) Carbon Tetrachloride	3.768	117	305245	9.576	ppbv	92
36) Benzene	3.661	78	383239	10.088	ppbv	98
37) 1,2-Dichloroethane	3.224	62	236611	10.377	ppbv	99
38) Trichloroethene	4.558	130	153596	9.251	ppbv	98
39) 1,2-Dichloropropane	4.321	63	139669	9.866	ppbv	95
40) 1,4-Dioxane	4.590	88	67808	8.716	ppbv #	95
41) Tetrahydrofuran	3.059	42	157777	9.715	ppbv	99
42) Bromodichloromethane	4.496	83	327652	10.326	ppbv	98
43) Methyl Methacrylate	4.888	69	159292	9.304	ppbv	95
44) 2,2,4-Trimethylpentane	4.648	57	657377	10.019	ppbv	99
45) t-1,3-Dichloropropene	6.422	75	172514	9.864	ppbv	91

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042358.D
 Acq On : 17 Apr 2025 15:39
 Operator : SY/MD
 Sample : VL0417ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0417ABS01

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 04/18/2025
 Supervised By : Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 02:36:58 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

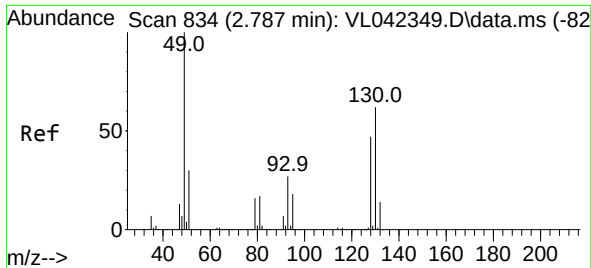
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Fri Apr 18 02:14:00 2025

Response via : Initial Calibration

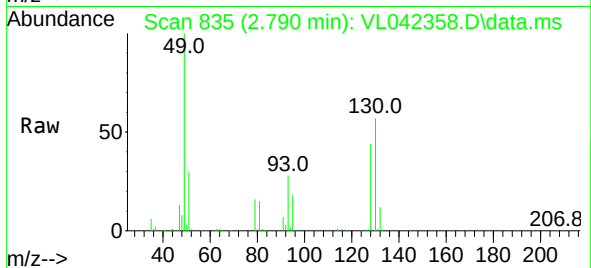
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.606	75	216901	10.133	ppbv	91
47) 1,1,2-Trichloroethane	6.590	97	146547	10.161	ppbv	96
48) Dibromochloromethane	7.396	129	261470	10.261	ppbv	100
49) Bromoform	9.487	173	221372	9.936	ppbv	99
50) 4-Methyl-2-Pentanone	5.758	43	407804	8.810	ppbv	99
51) 2-Hexanone	7.441	43	332646	8.013	ppbv #	98
52) Tetrachloroethene	8.231	164	128670	8.763	ppbv	96
53) Toluene	6.943	91	447581	9.818	ppbv	100
54) 1,2-Dibromoethane	7.658	107	204328	9.899	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.930	131	199945	10.275	ppbv	96
57) Chlorobenzene	8.927	112	335143	10.022	ppbv	99
58) Ethyl Benzene	9.361	91	635446	9.975	ppbv	97
59) m/p-Xylene	9.555	91	1016404m	19.806	ppbv	
60) o-Xylene	9.969	91	506535	9.802	ppbv	99
61) Styrene	9.875	104	248022	10.055	ppbv	99
62) Isopropylbenzene	10.545	105	745571	9.827	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.969	83	298581	8.916	ppbv	100
64) n-propylbenzene	10.995	120	188310	9.875	ppbv	95
65) tert-Butylbenzene	11.536	119	668687	9.589	ppbv	93
66) Benzyl Chloride	11.620	91	69058	9.012	ppbv	96
67) sec-Butylbenzene	11.772	105	930426	9.592	ppbv	100
69) p-Isopropyltoluene	11.931	119	795532	9.441	ppbv	99
70) n-Butylbenzene	12.287	91	846427	9.644	ppbv	100
71) 2-Chlorotoluene	10.905	91	591154	9.934	ppbv	99
72) 4-Ethyltoluene	11.131	105	606879	9.606	ppbv	99
73) 1,3,5-Trimethylbenzene	11.209	105	533060	9.557	ppbv	98
74) 1,2,4-Trimethylbenzene	11.542	105	584747	8.976	ppbv	96
75) 1,3-Dichlorobenzene	11.613	146	320811	9.474	ppbv	99
76) 1,4-Dichlorobenzene	11.675	146	319376	9.384	ppbv	100
77) 1,2-Dichlorobenzene	11.953	146	311460	9.459	ppbv	99
78) Hexachloro-1,3-Butadiene	13.886	225	303379	9.124	ppbv	99
79) Naphthalene	13.517	128	701010	8.999	ppbv	99
80) Naphthalene,2-methyl-	14.462	142	369891	8.331	ppbv	98
81) 1,2,4-Trichlorobenzene	13.445	180	315002	9.417	ppbv	99

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

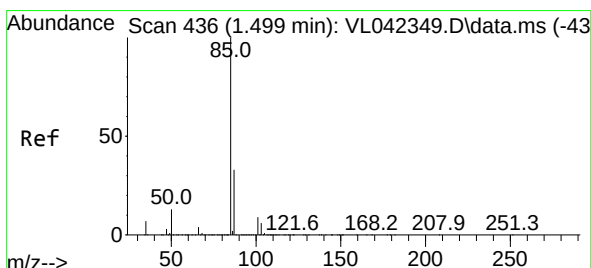
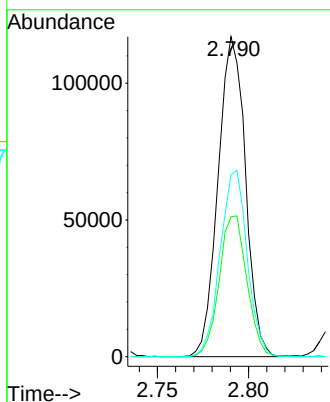
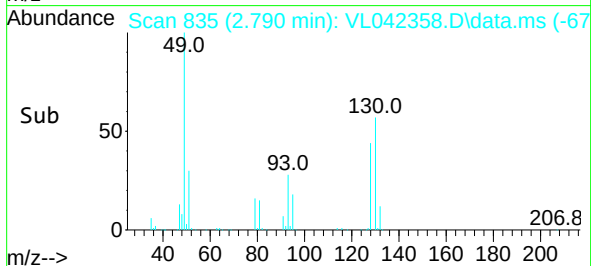
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01



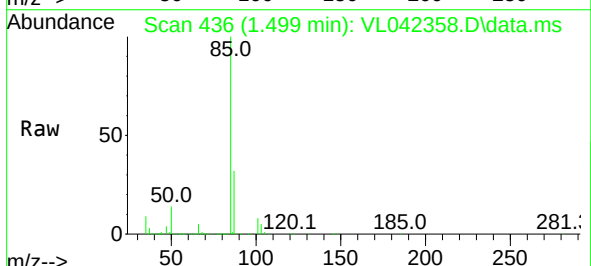
Tgt Ion: 49 Resp: 122375
Ion Ratio Lower Upper
49 100
128 44.5 22.8 68.4
130 57.6 29.3 88.0

Manual Integrations
APPROVED

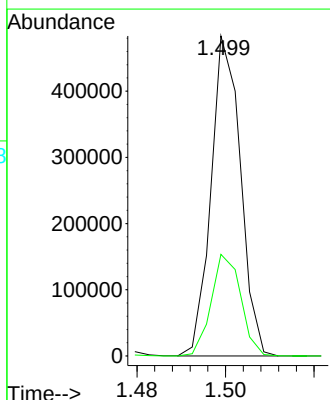
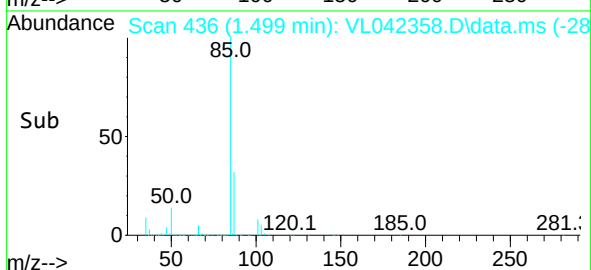
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

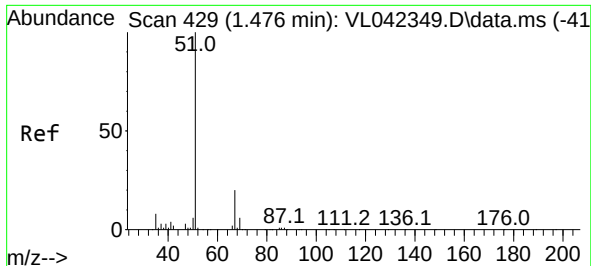


#2
Dichlorodifluoromethane
Concen: 10.337 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39



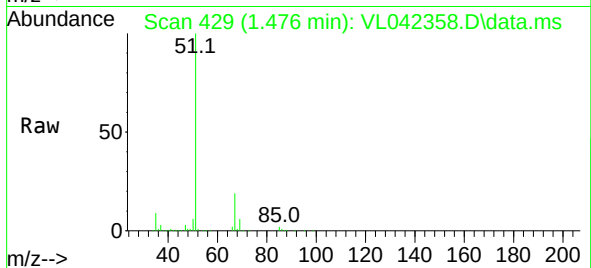
Tgt Ion: 85 Resp: 223505
Ion Ratio Lower Upper
85 100
87 31.7 26.6 39.8





#3
Chlorodifluoromethane
Concen: 10.014 ppbv
RT: 1.476 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

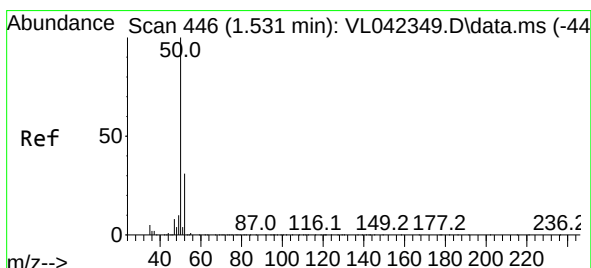
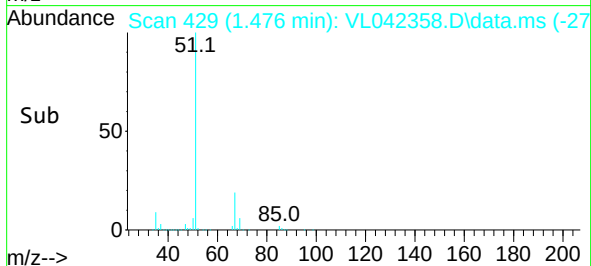
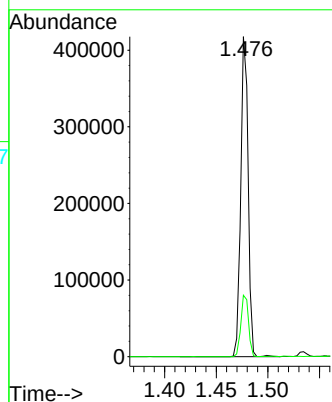
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01



Tgt Ion: 51 Resp: 206172
Ion Ratio Lower Upper
51 100
67 20.2 16.2 24.4

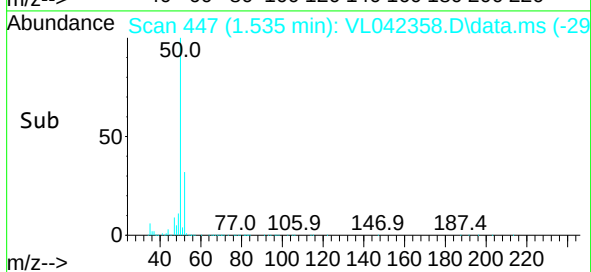
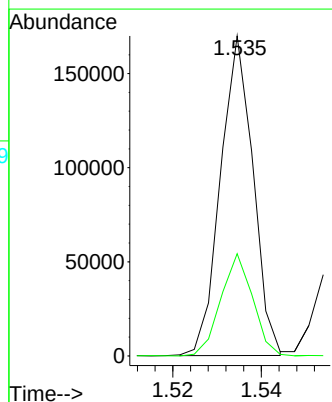
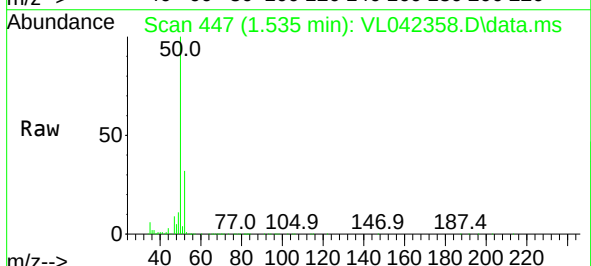
Manual Integrations
APPROVED

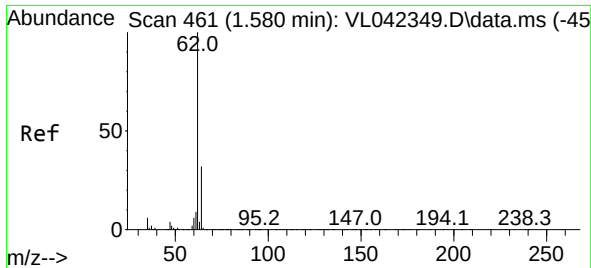
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#4
Chloromethane
Concen: 10.130 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 50 Resp: 86675
Ion Ratio Lower Upper
50 100
52 32.1 24.7 37.1





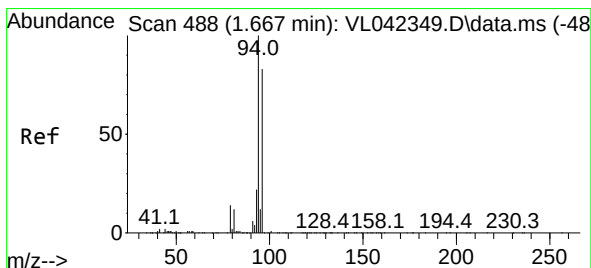
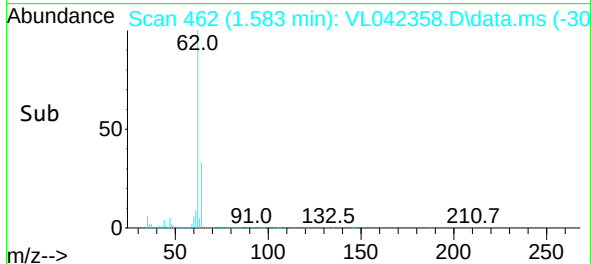
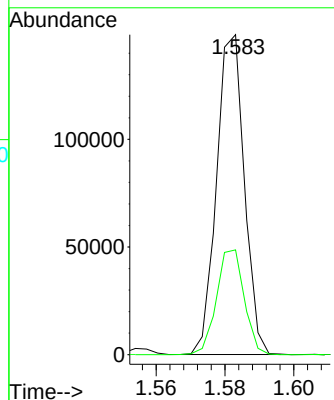
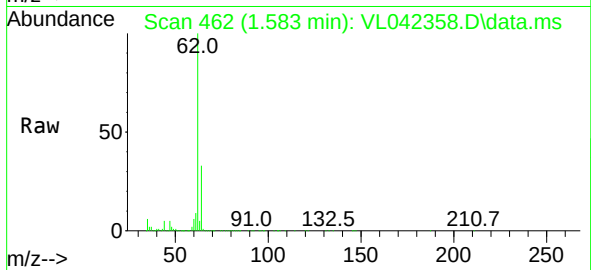
#5
Vinyl Chloride
Concen: 8.956 ppbv
RT: 1.583 min Scan# 462
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Tgt Ion: 62 Resp: 83419
Ion Ratio Lower Upper
62 100
64 32.8 25.4 38.0

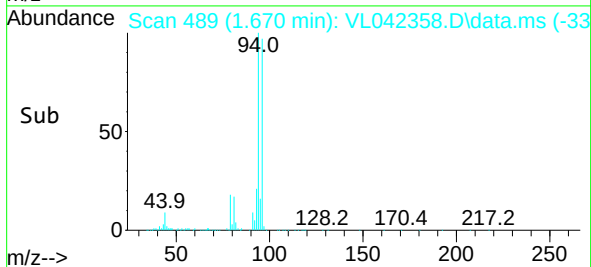
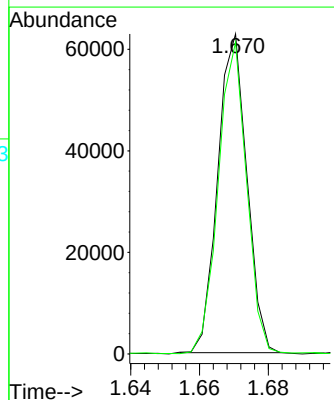
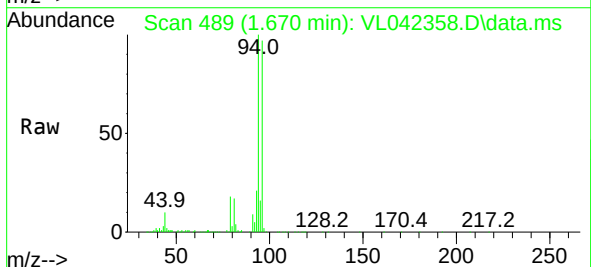
Manual Integrations
APPROVED

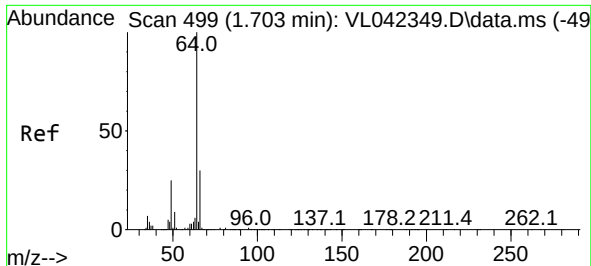
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#6
Bromomethane
Concen: 9.235 ppbv
RT: 1.670 min Scan# 489
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

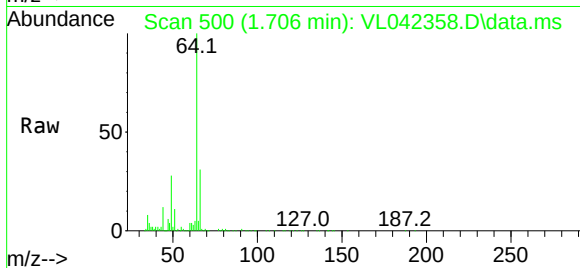
Tgt Ion: 94 Resp: 36951
Ion Ratio Lower Upper
94 100
96 97.7 66.2 99.2





#7
Chloroethane
Concen: 10.075 ppbv
RT: 1.706 min Scan# 50
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

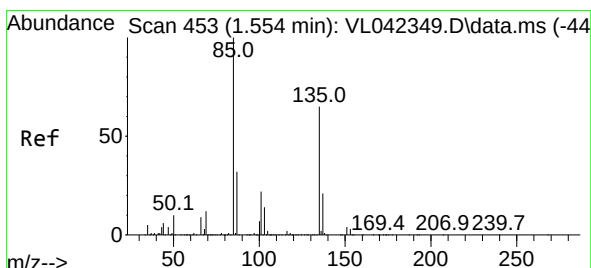
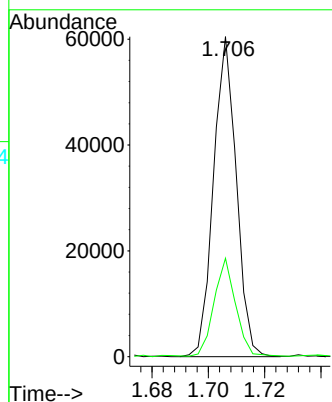
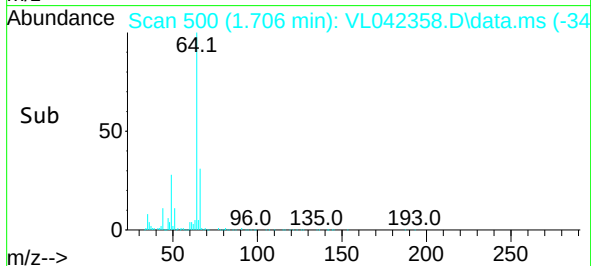
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01



Tgt Ion: 64 Resp: 33930
Ion Ratio Lower Upper
64 100
66 30.7 24.6 37.0

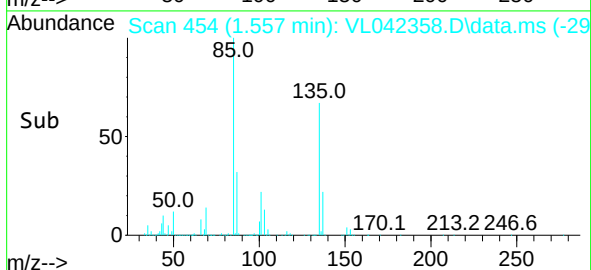
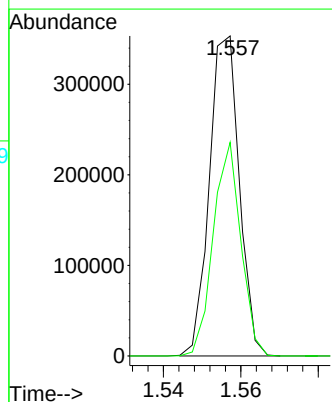
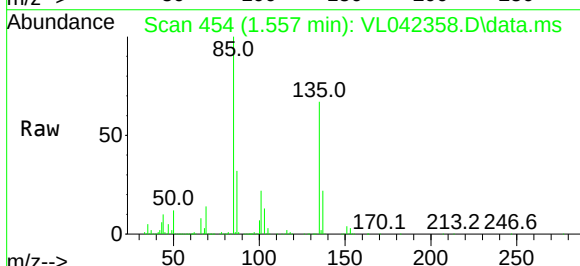
Manual Integrations
APPROVED

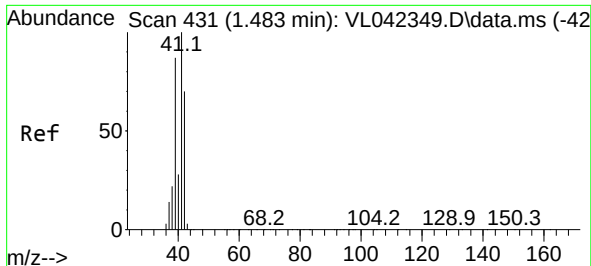
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#8
Dichlorotetrafluoroethane
Concen: 10.231 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 85 Resp: 189924
Ion Ratio Lower Upper
85 100
135 61.4 52.2 78.2





#9

Propene

Concen: 9.395 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042358.D

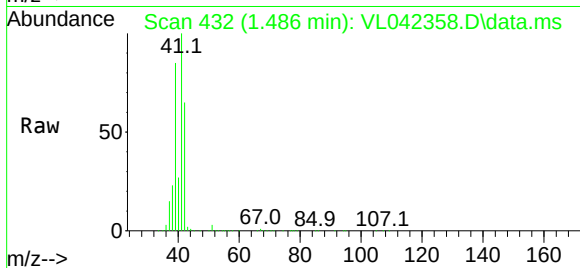
Acq: 17 Apr 2025 15:39

Instrument :

MSVOA_L

ClientSampleId :

VL0417ABS01



Tgt Ion: 41 Resp: 8808

Ion Ratio Lower Upper

41 100

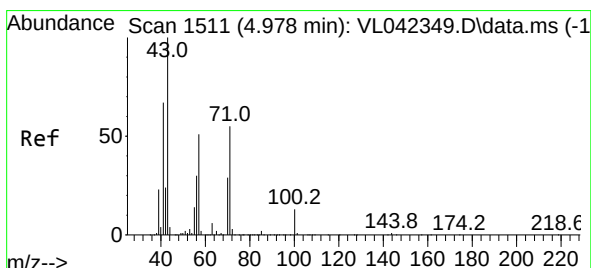
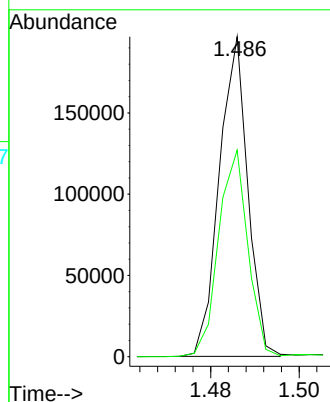
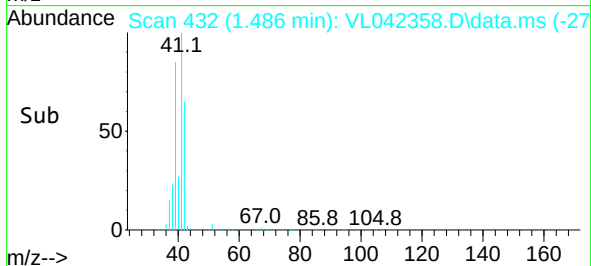
42 68.4 56.2 84.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#10

Heptane

Concen: 9.244 ppbv

RT: 4.985 min Scan# 1513

Delta R.T. 0.007 min

Lab File: VL042358.D

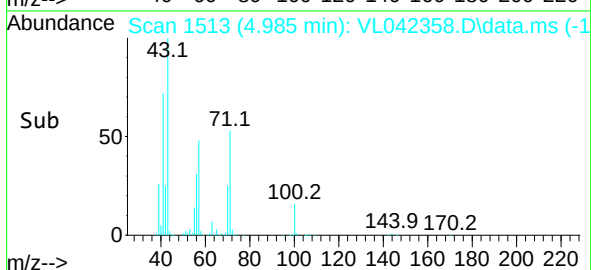
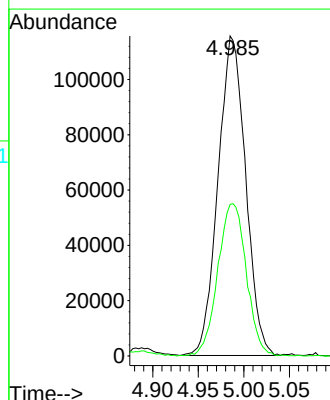
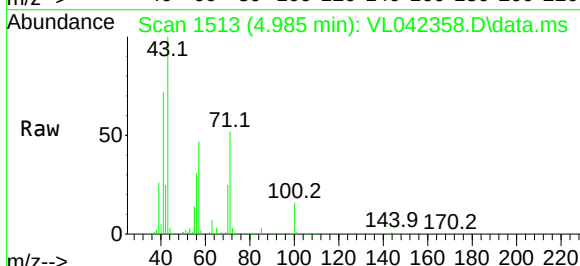
Acq: 17 Apr 2025 15:39

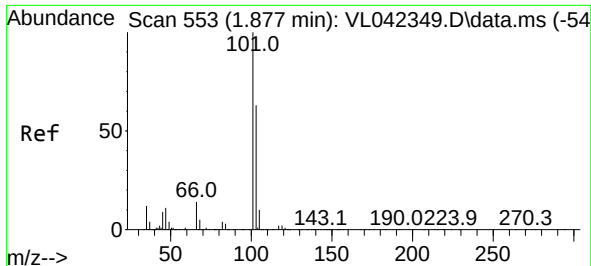
Tgt Ion: 43 Resp: 243501

Ion Ratio Lower Upper

43 100

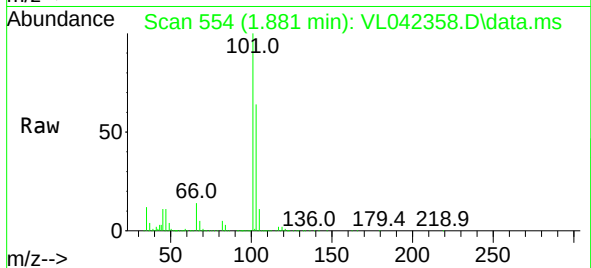
57 49.4 39.9 59.9





#11
Trichlorofluoromethane
Concen: 10.050 ppbv
RT: 1.881 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

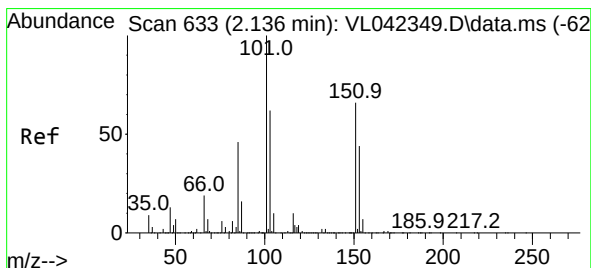
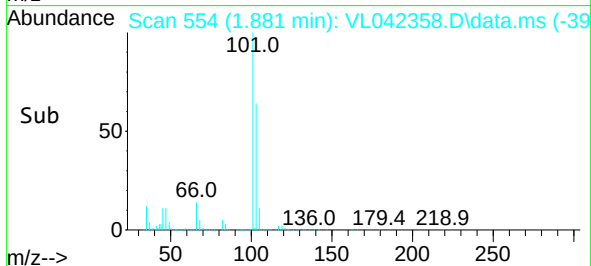
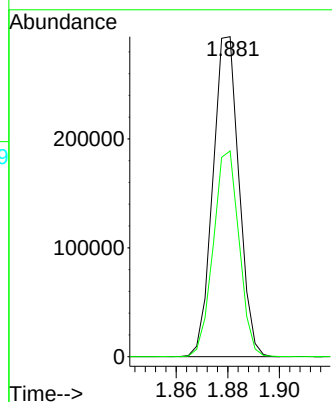
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01



Tgt Ion:101 Resp: 206649
Ion Ratio Lower Upper
101 100
103 64.3 50.1 75.1

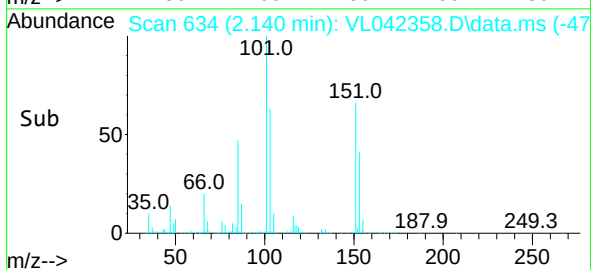
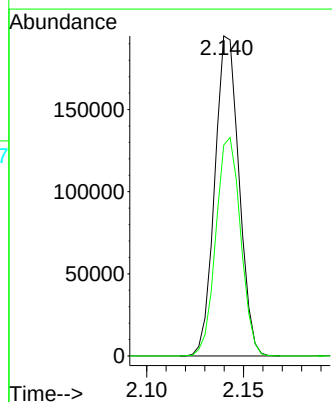
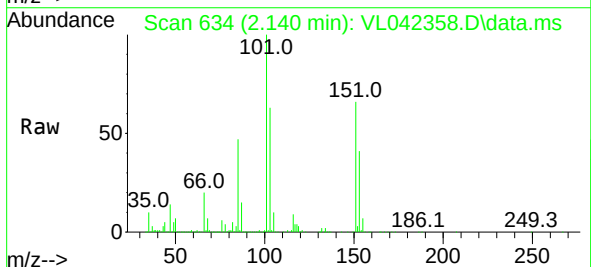
Manual Integrations
APPROVED

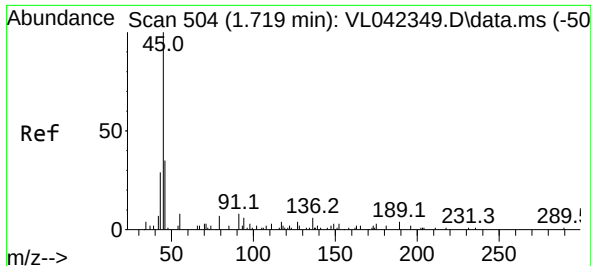
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#12
1,1,2-Trichlorotrifluoroethane
Concen: 10.083 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

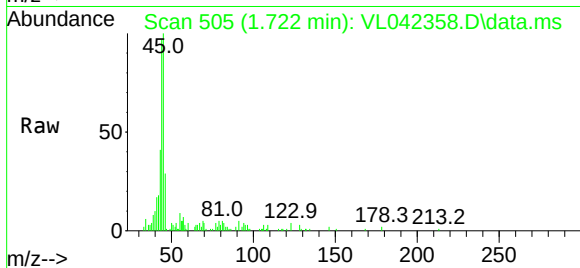
Tgt Ion:101 Resp: 169501
Ion Ratio Lower Upper
101 100
151 69.6 57.0 85.6





#13
Ethanol
Concen: 3.246 ppbv
RT: 1.722 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

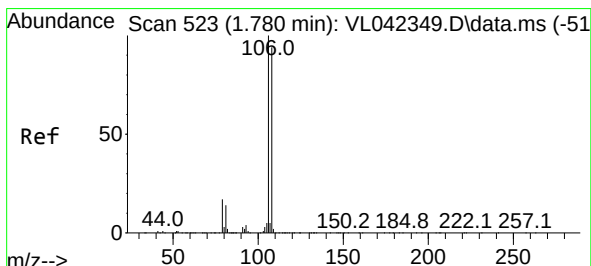
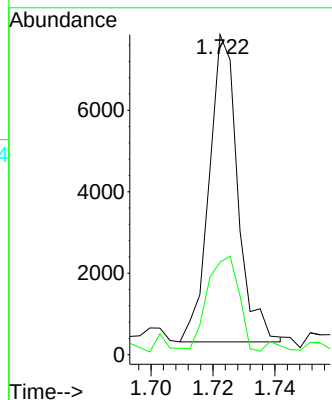
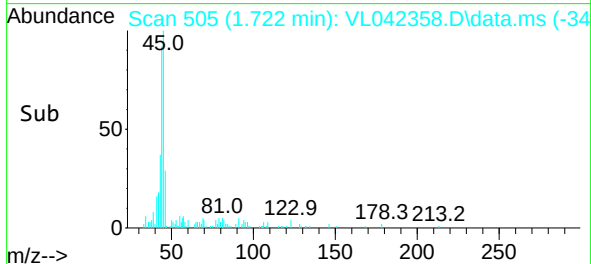
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01



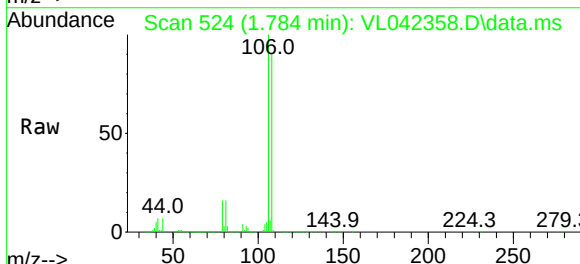
Tgt Ion: 45 Resp: 483
Ion Ratio Lower Upper
45 100
46 45.8 21.9 87.7

Manual Integrations
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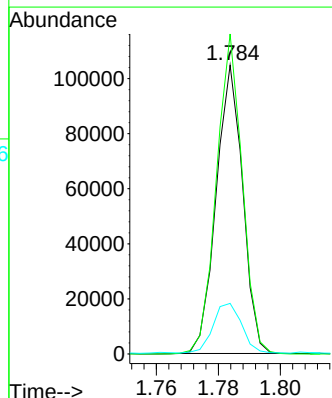
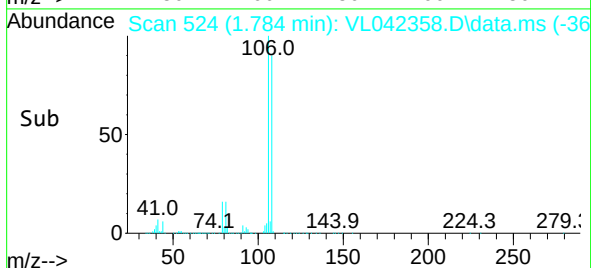
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

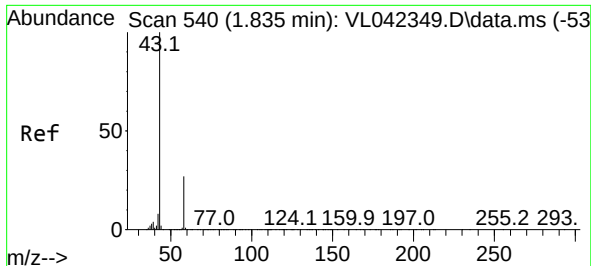


#14
Bromoethene
Concen: 9.818 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39



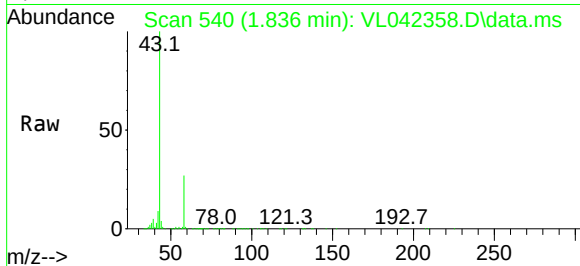
Tgt Ion:108 Resp: 62214
Ion Ratio Lower Upper
108 100
106 108.2 85.9 128.9
79 20.6 13.9 20.9





#15
Acetone
Concen: 8.743 ppbv
RT: 1.836 min Scan# 54
Delta R.T. 0.000 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

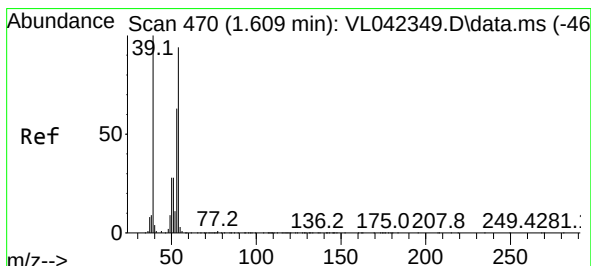
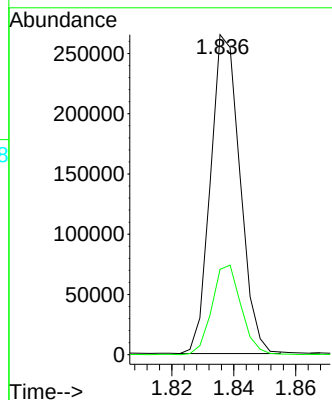
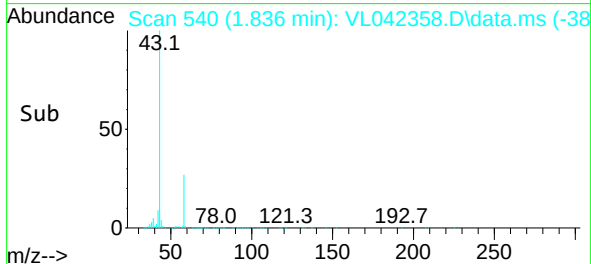
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01



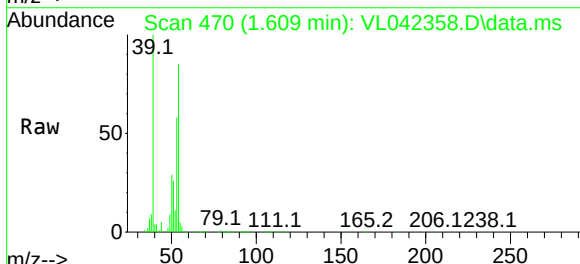
Tgt Ion: 43 Resp: 17515
Ion Ratio Lower Upper
43 100
58 27.9 22.4 33.6

Manual Integrations
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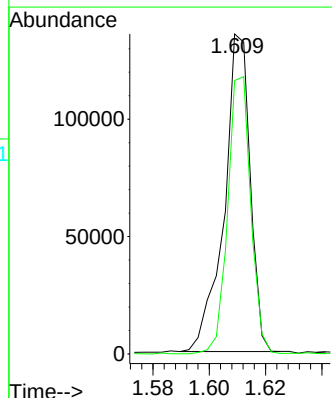
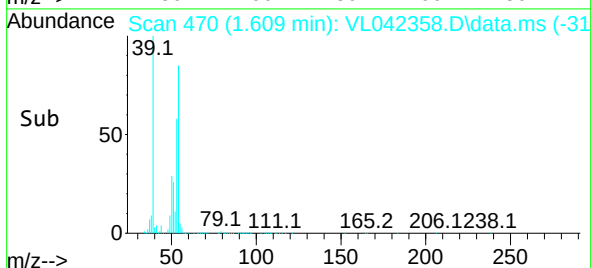
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

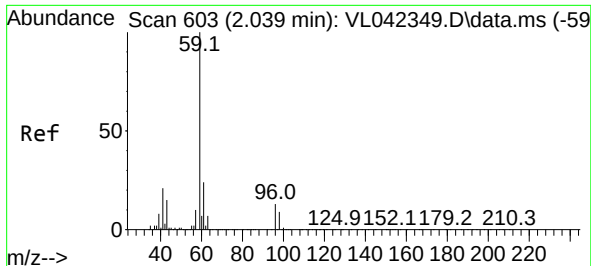


#16
1,3-Butadiene
Concen: 9.076 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39



Tgt Ion: 39 Resp: 86965
Ion Ratio Lower Upper
39 100
54 77.9 64.9 97.3





#17

tert-Butyl alcohol

Concen: 9.754 ppbv

RT: 2.043 min Scan# 603

Delta R.T. 0.003 min

Lab File: VL042358.D

Acq: 17 Apr 2025 15:39

Instrument :

MSVOA_L

ClientSampleId :

VL0417ABS01

Tgt Ion: 59 Resp: 242154

Ion Ratio Lower Upper

59 100

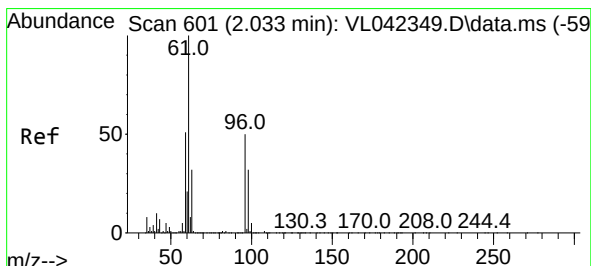
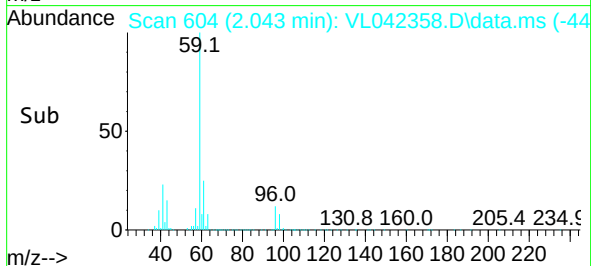
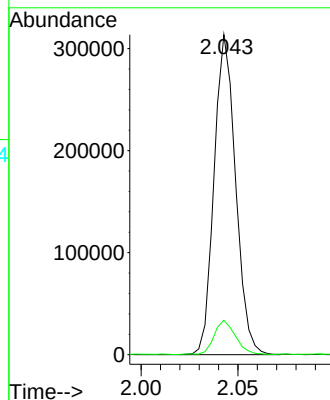
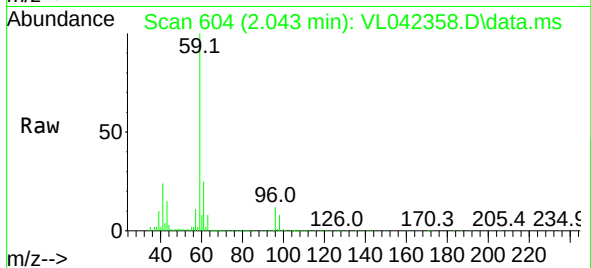
57 10.9 8.7 13.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#18

1,1-Dichloroethene

Concen: 9.836 ppbv

RT: 2.036 min Scan# 602

Delta R.T. 0.003 min

Lab File: VL042358.D

Acq: 17 Apr 2025 15:39

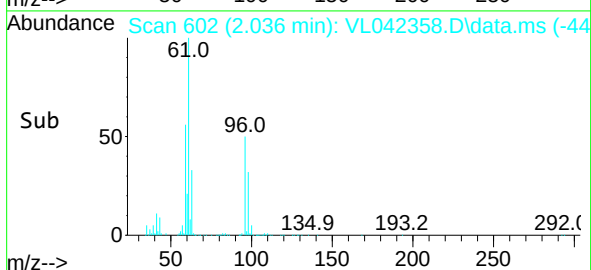
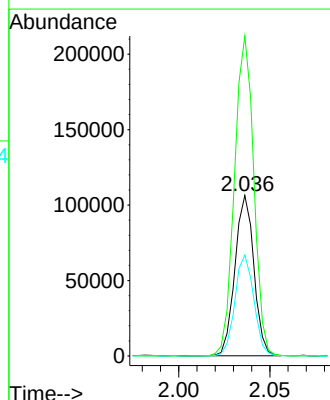
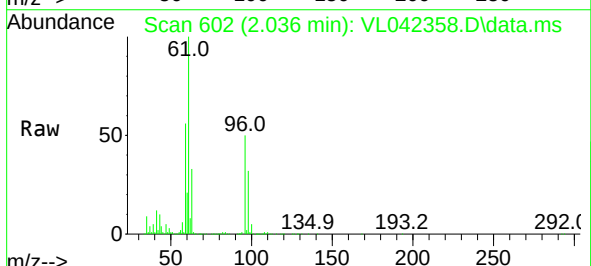
Tgt Ion: 96 Resp: 77247

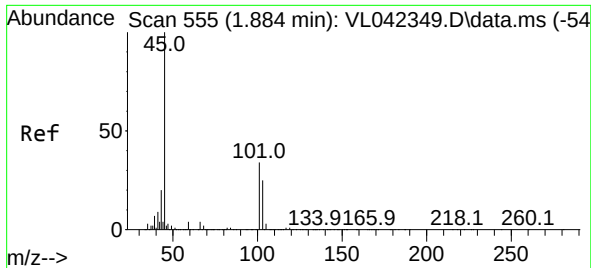
Ion Ratio Lower Upper

96 100

61 199.6 160.2 240.2

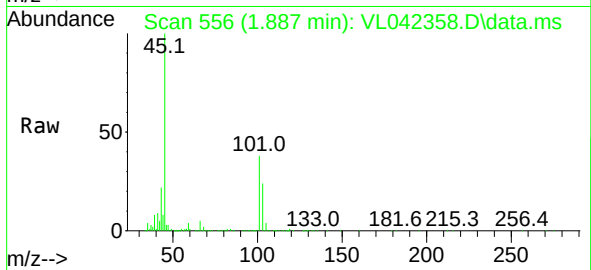
98 63.0 51.0 76.4





#19
Isopropyl Alcohol
Concen: 9.356 ppbv
RT: 1.887 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

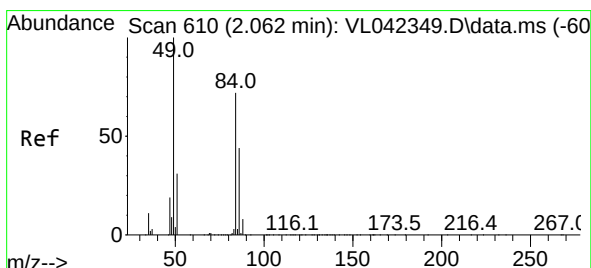
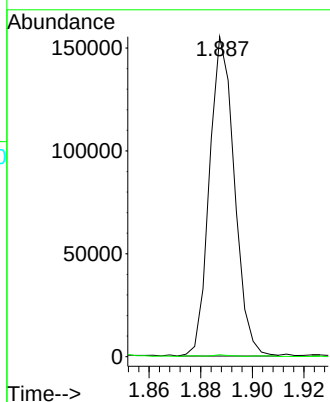
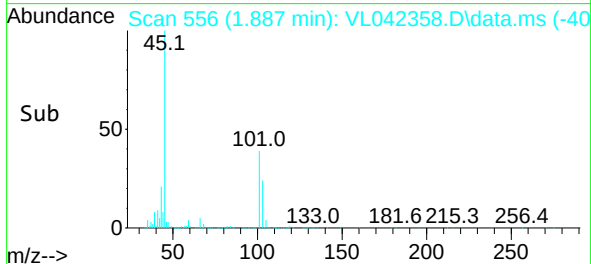
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01



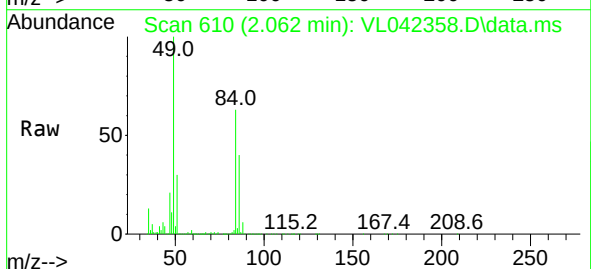
Tgt Ion: 45 Resp: 10412
Ion Ratio Lower Upper
45 100
58 46.9 34.5 51.7

Manual Integrations
APPROVED

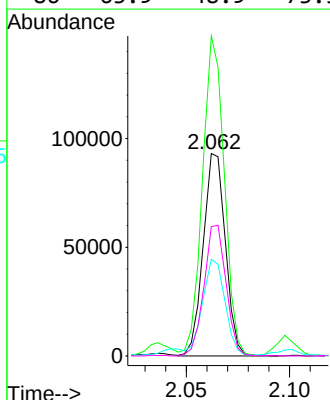
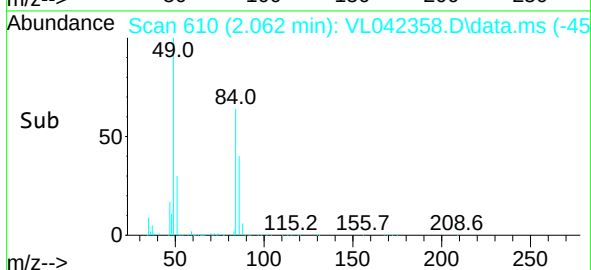
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

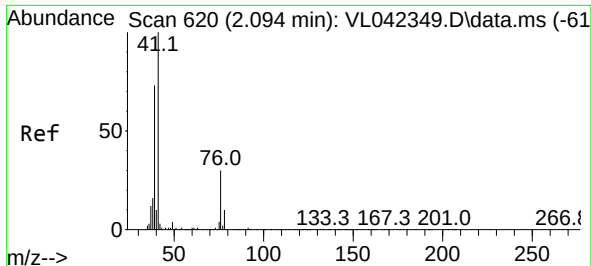


#20
Methylene Chloride
Concen: 8.865 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39



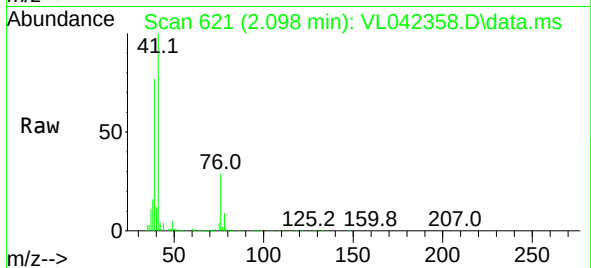
Tgt Ion: 84 Resp: 69548
Ion Ratio Lower Upper
84 100
49 156.3 111.6 167.4
51 45.9 35.1 52.7
86 63.9 48.9 73.3





#21
 Allyl Chloride
 Concen: 9.704 ppbv
 RT: 2.098 min Scan# 61
 Delta R.T. 0.003 min
 Lab File: VL042358.D
 Acq: 17 Apr 2025 15:39

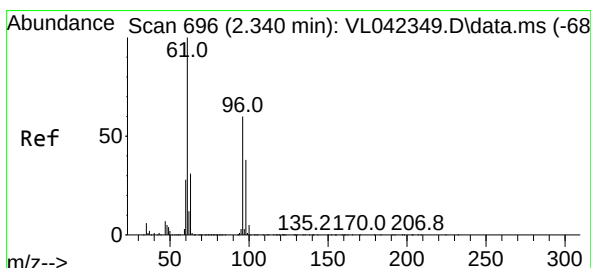
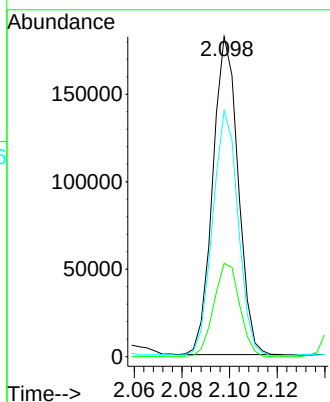
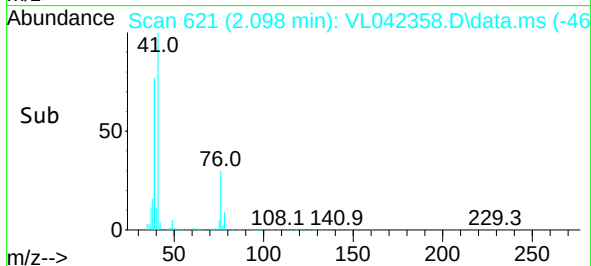
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0417ABS01



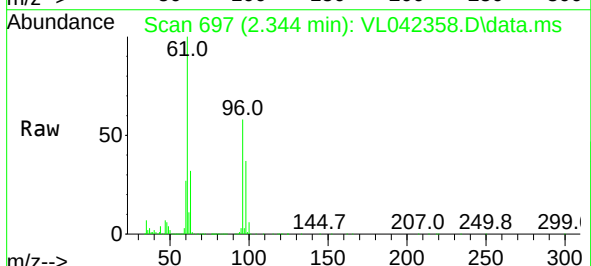
Tgt Ion: 41 Resp: 13422
 Ion Ratio Lower Upper
 41 100
 76 30.1 24.8 37.2
 39 76.8 60.6 90.8

Manual Integrations
 APPROVED

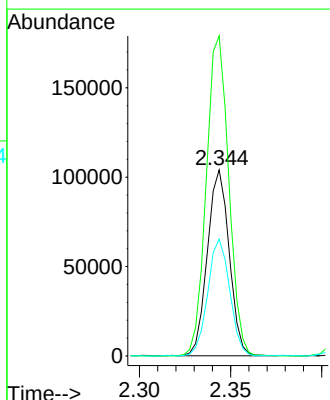
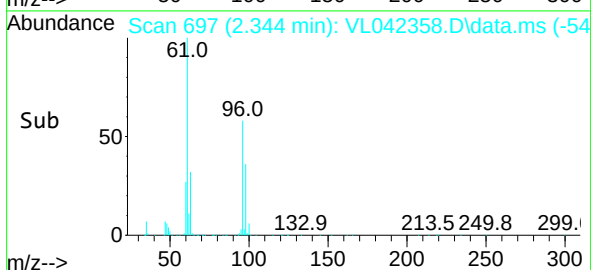
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

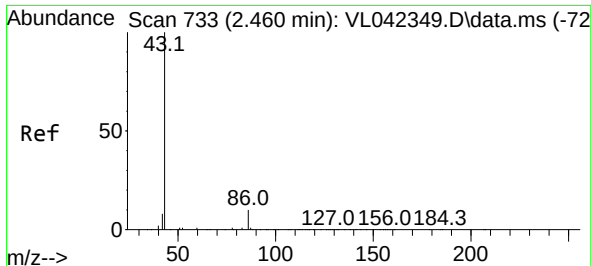


#22
 trans-1,2-Dichloroethene
 Concen: 9.653 ppbv
 RT: 2.344 min Scan# 697
 Delta R.T. 0.003 min
 Lab File: VL042358.D
 Acq: 17 Apr 2025 15:39



Tgt Ion: 96 Resp: 86323
 Ion Ratio Lower Upper
 96 100
 61 172.1 133.7 200.5
 98 62.9 50.3 75.5





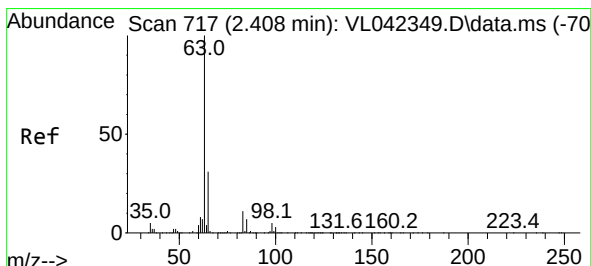
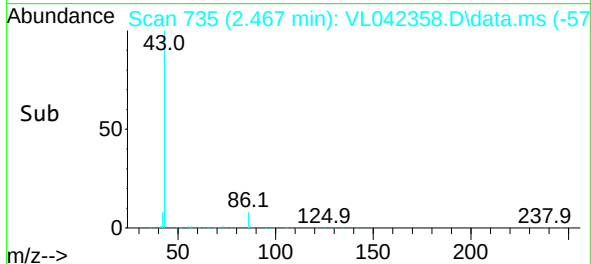
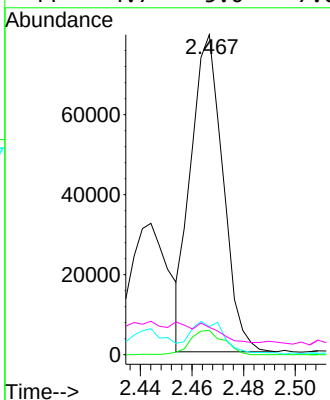
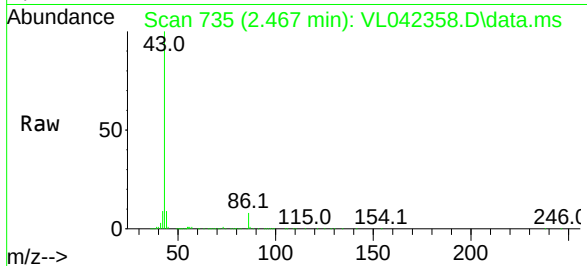
#23
 Vinyl Acetate
 Concen: 8.427 ppbv
 RT: 2.467 min Scan# 718
 Delta R.T. 0.007 min
 Lab File: VL042358.D
 Acq: 17 Apr 2025 15:39

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0417ABS01

Tgt Ion: 43 Resp: 6833
 Ion Ratio Lower Upper
 43 100
 86 7.7 6.5 9.7
 42 8.3 7.8 11.8
 44 4.7 5.0 7.6#

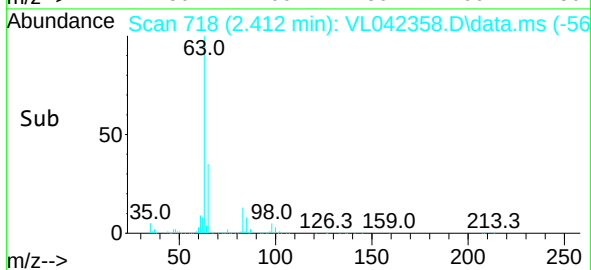
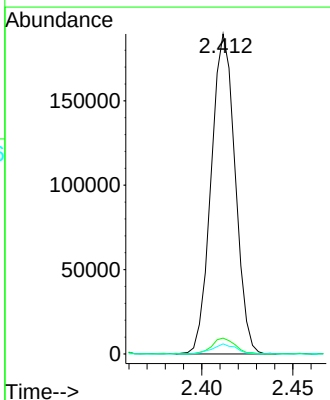
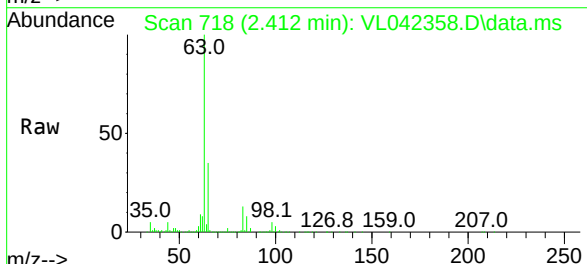
Manual Integrations
 APPROVED

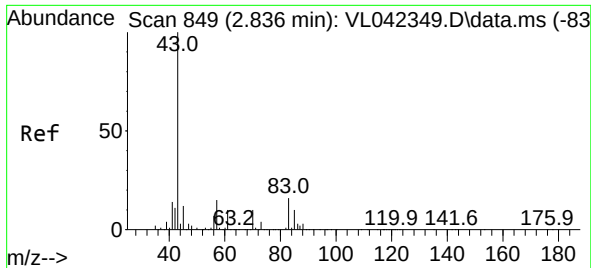
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#24
 1,1-Dichloroethane
 Concen: 10.199 ppbv
 RT: 2.412 min Scan# 718
 Delta R.T. 0.003 min
 Lab File: VL042358.D
 Acq: 17 Apr 2025 15:39

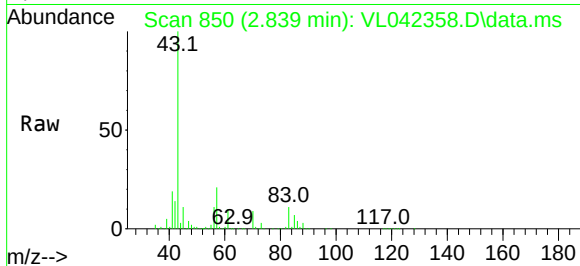
Tgt Ion: 63 Resp: 173238
 Ion Ratio Lower Upper
 63 100
 98 4.9 2.3 6.8
 100 3.1 1.6 4.8





#25
Ethyl Acetate
Concen: 9.894 ppbv
RT: 2.839 min Scan# 849
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

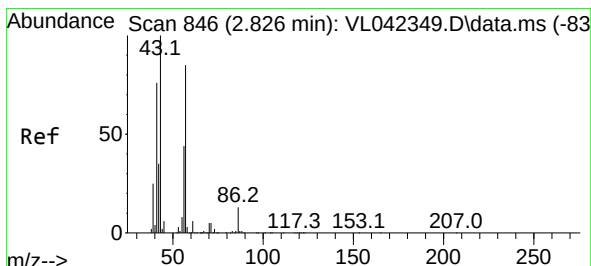
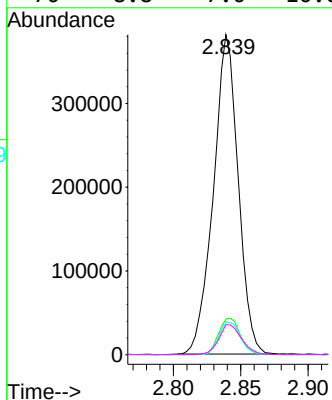
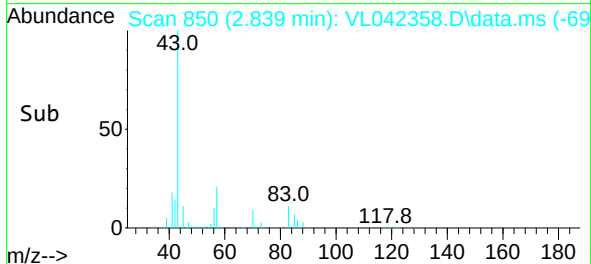
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01



Tgt Ion: 43 Resp: 488680
Ion Ratio Lower Upper
43 100
45 10.1 8.3 12.5
61 9.0 7.3 10.9
70 8.8 7.0 10.6

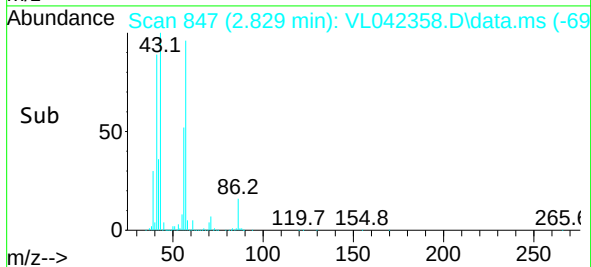
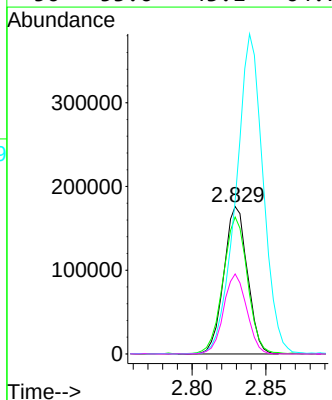
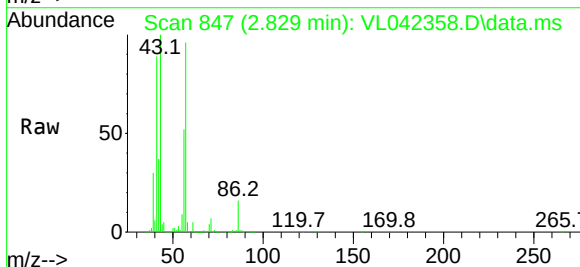
Manual Integrations
APPROVED

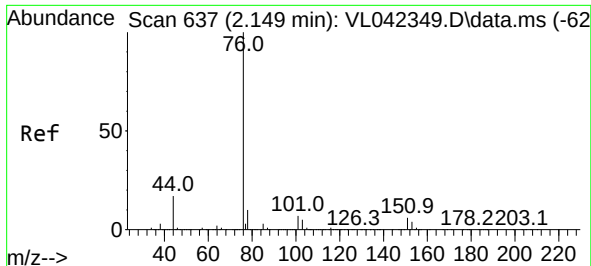
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#26
Hexane
Concen: 9.761 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

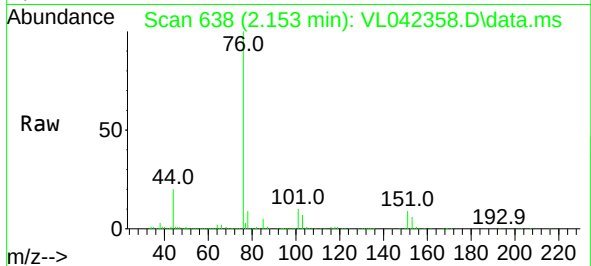
Tgt Ion: 57 Resp: 195124
Ion Ratio Lower Upper
57 100
41 96.9 77.9 116.9
43 251.9 208.4 312.6
56 53.6 43.1 64.7





#27
Carbon Disulfide
Concen: 10.202 ppbv
RT: 2.153 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

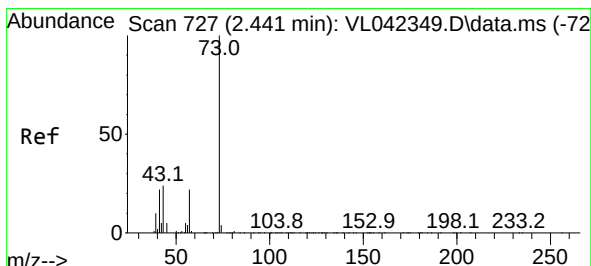
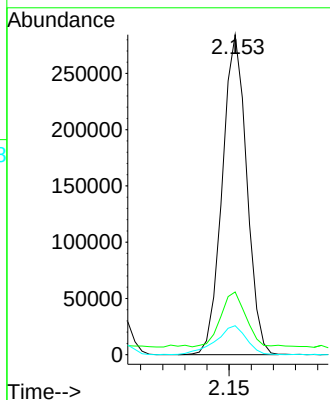
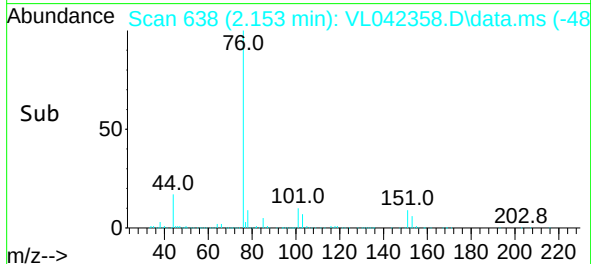
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01



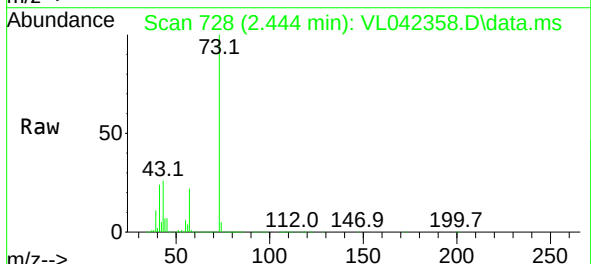
Tgt Ion: 76 Resp: 21834
Ion Ratio Lower Upper
76 100
44 21.6 15.5 23.3
78 11.4 9.3 13.9

Manual Integrations
APPROVED

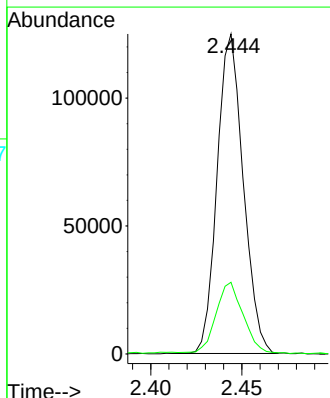
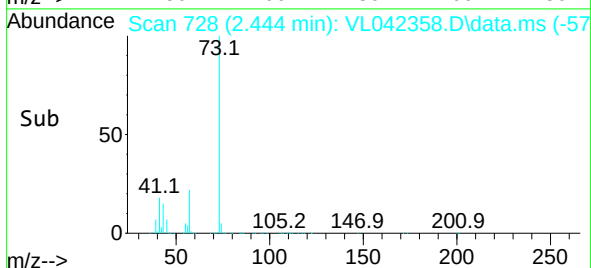
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

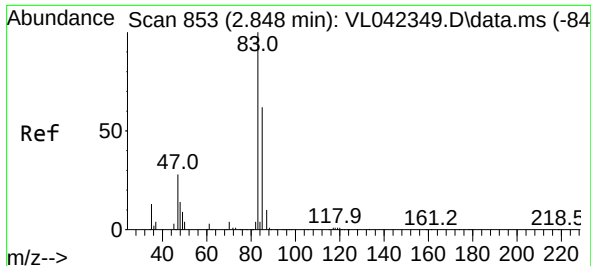


#28
Methyl tert-Butyl Ether
Concen: 9.510 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39



Tgt Ion: 73 Resp: 124554
Ion Ratio Lower Upper
73 100
57 24.5 21.3 31.9





#29

Chloroform

Concen: 10.239 ppbv

RT: 2.852 min Scan# 853

Delta R.T. 0.003 min

Lab File: VL042358.D

Acq: 17 Apr 2025 15:39

Instrument :

MSVOA_L

ClientSampleId :

VL0417ABS01

Tgt Ion: 83 Resp: 289294

Ion Ratio Lower Upper

83 100

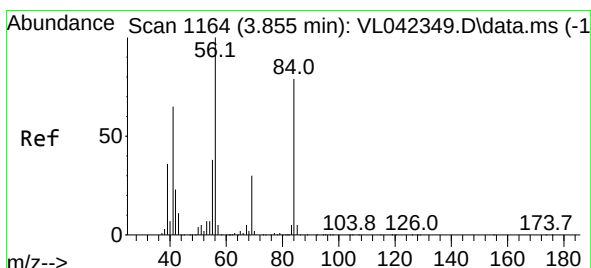
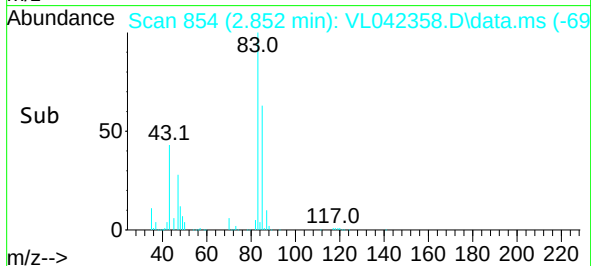
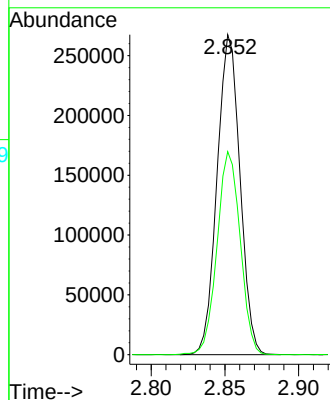
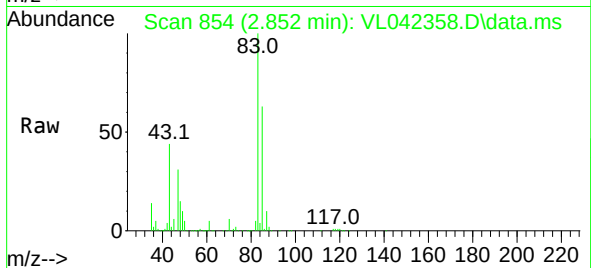
85 63.4 50.0 75.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#30

Cyclohexane

Concen: 10.088 ppbv

RT: 3.862 min Scan# 1166

Delta R.T. 0.007 min

Lab File: VL042358.D

Acq: 17 Apr 2025 15:39

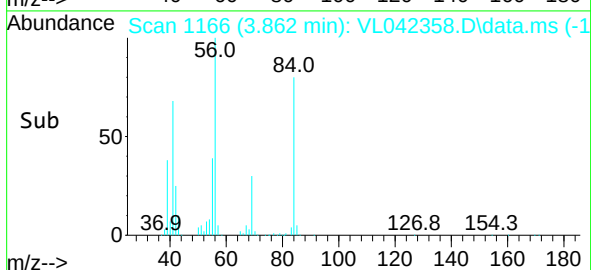
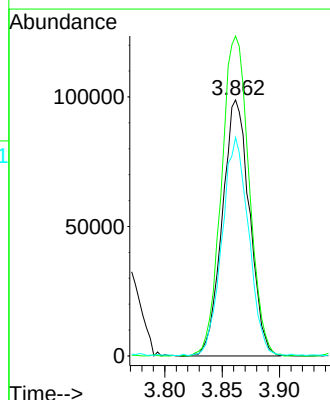
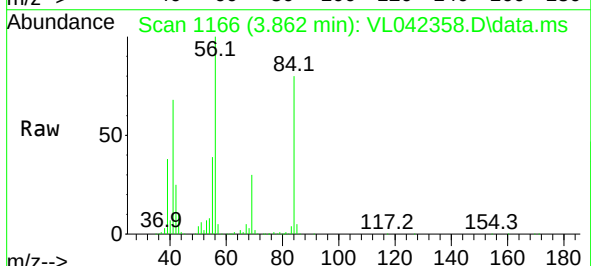
Tgt Ion: 84 Resp: 163017

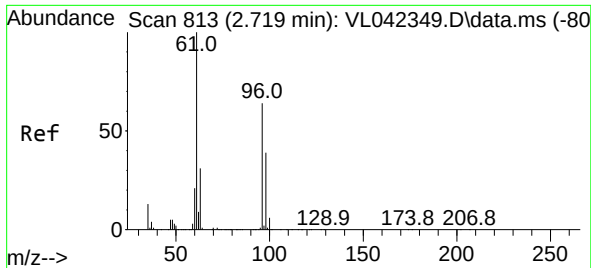
Ion Ratio Lower Upper

84 100

56 126.7 101.0 151.4

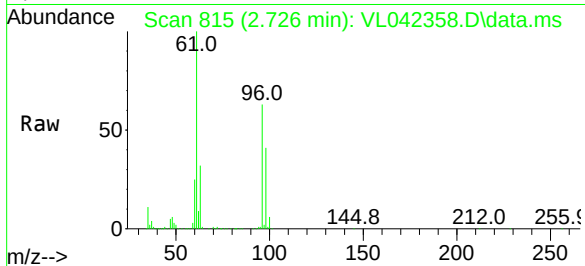
41 83.8 67.4 101.0





#31
 cis-1,2-Dichloroethene
 Concen: 10.424 ppbv
 RT: 2.726 min Scan# 81
 Delta R.T. 0.007 min
 Lab File: VL042358.D
 Acq: 17 Apr 2025 15:39

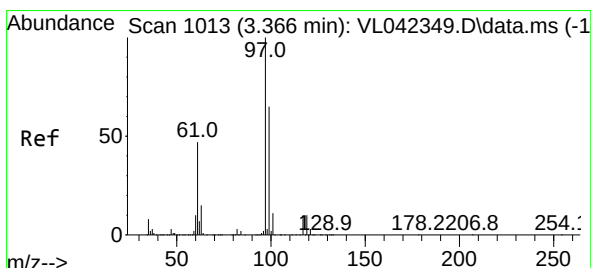
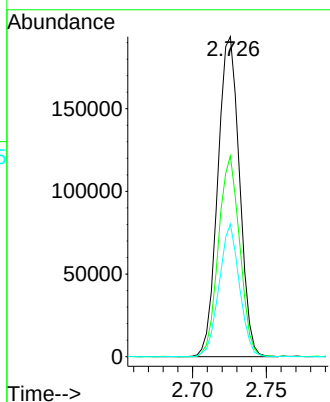
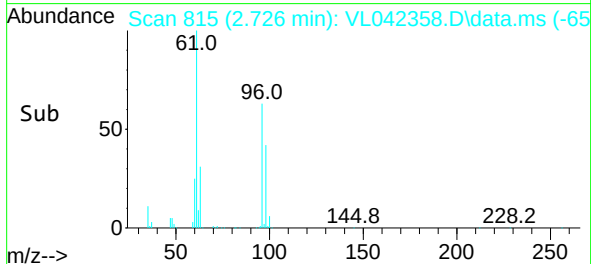
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0417ABS01



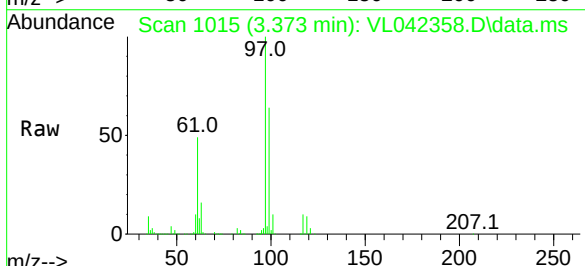
Tgt Ion: 61 Resp: 198108
 Ion Ratio Lower Upper
 61 100
 96 62.8 50.8 76.2
 98 41.4 30.9 46.3

Manual Integrations
 APPROVED

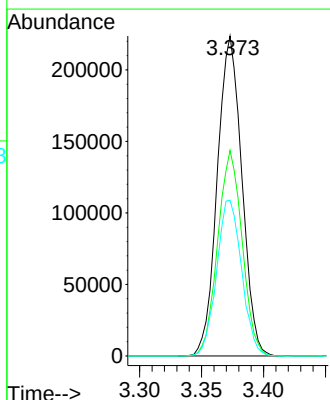
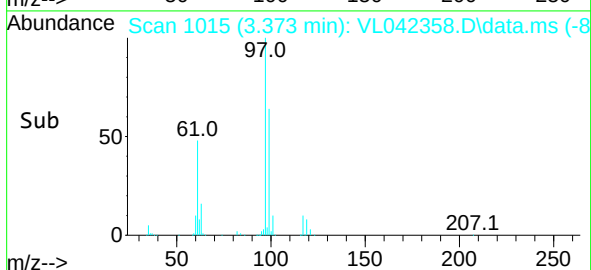
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

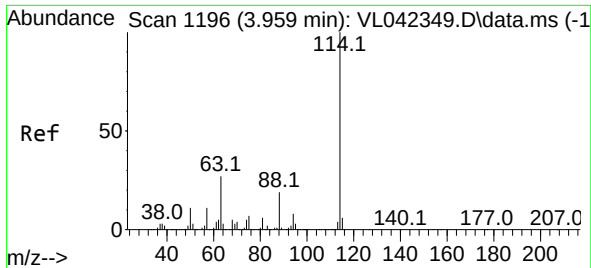


#32
 1,1,1-Trichloroethane
 Concen: 9.729 ppbv
 RT: 3.373 min Scan# 1015
 Delta R.T. 0.007 min
 Lab File: VL042358.D
 Acq: 17 Apr 2025 15:39



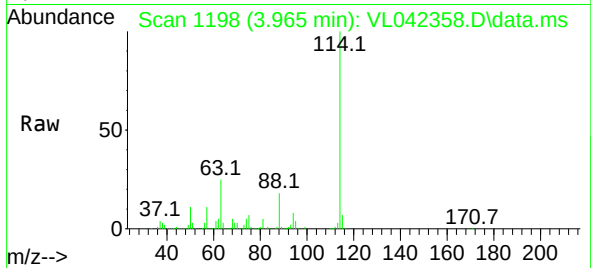
Tgt Ion: 97 Resp: 309460
 Ion Ratio Lower Upper
 97 100
 99 63.7 51.0 76.4
 61 49.5 38.8 58.2





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1196
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

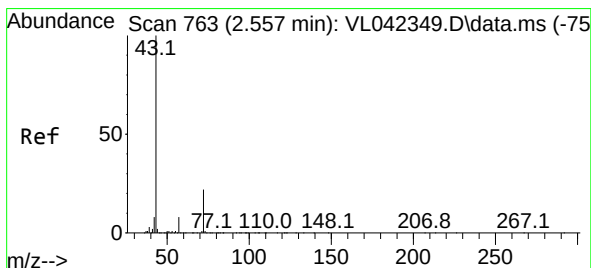
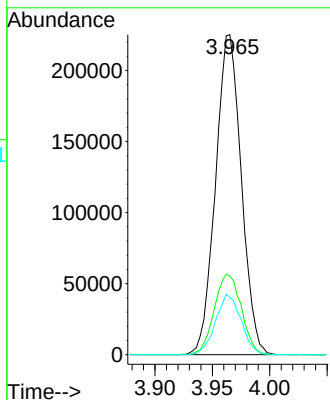
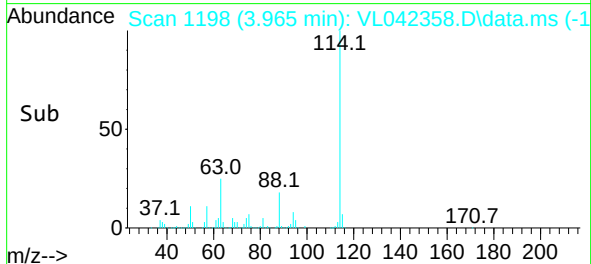
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01



Tgt Ion:114 Resp: 35220
Ion Ratio Lower Upper
114 100
63 26.4 21.8 32.6
88 18.6 15.5 23.3

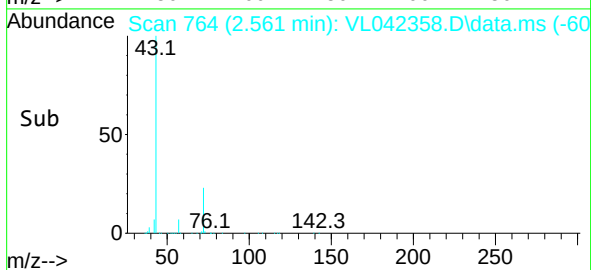
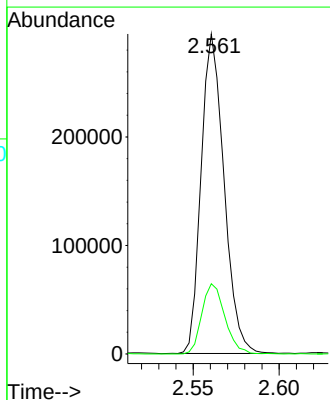
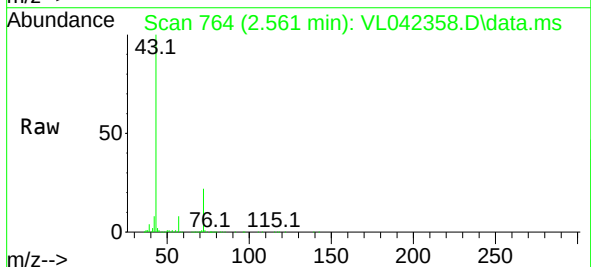
Manual Integrations
APPROVED

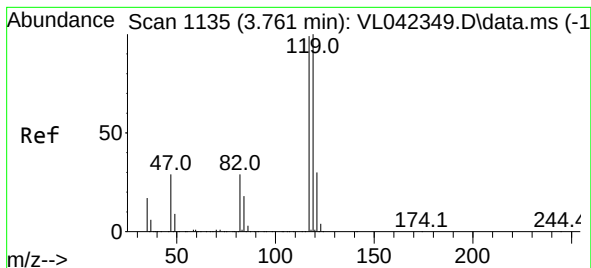
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#34
2-Butanone
Concen: 9.787 ppbv
RT: 2.561 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 43 Resp: 272600
Ion Ratio Lower Upper
43 100
72 22.2 18.2 27.2





#35

Carbon Tetrachloride

Concen: 9.576 ppbv

RT: 3.768 min Scan# 1135

Delta R.T. 0.007 min

Lab File: VL042358.D

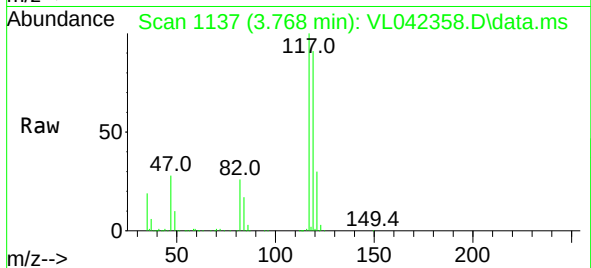
Acq: 17 Apr 2025 15:39

Instrument :

MSVOA_L

ClientSampleId :

VL0417ABS01



Tgt Ion: 117 Resp: 305249

Ion Ratio Lower Upper

117 100

119 91.0 80.5 120.7

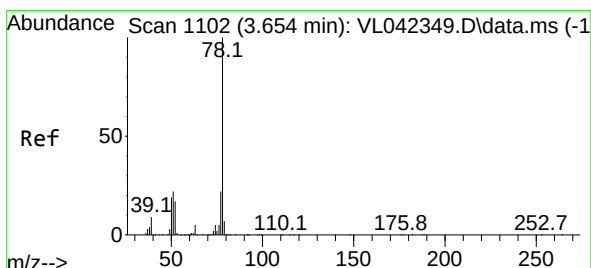
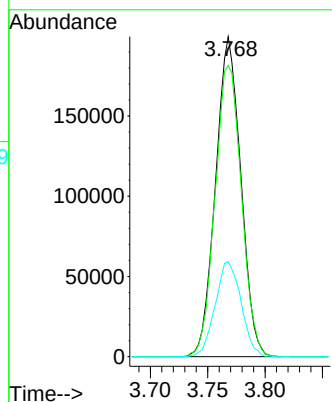
121 29.8 24.2 36.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#36

Benzene

Concen: 10.088 ppbv

RT: 3.661 min Scan# 1104

Delta R.T. 0.007 min

Lab File: VL042358.D

Acq: 17 Apr 2025 15:39

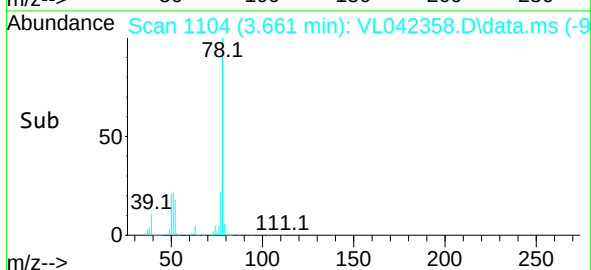
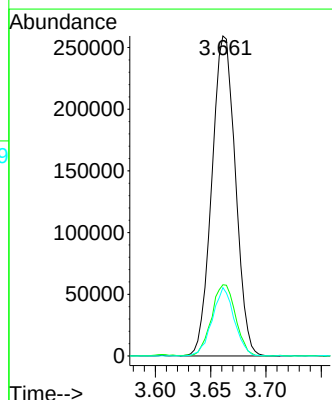
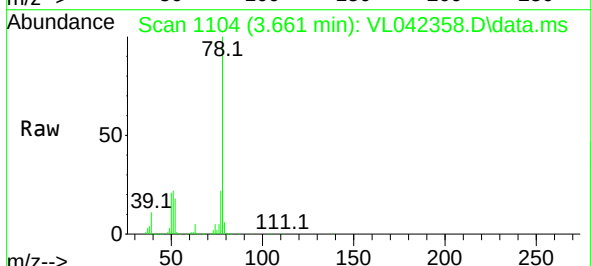
Tgt Ion: 78 Resp: 383239

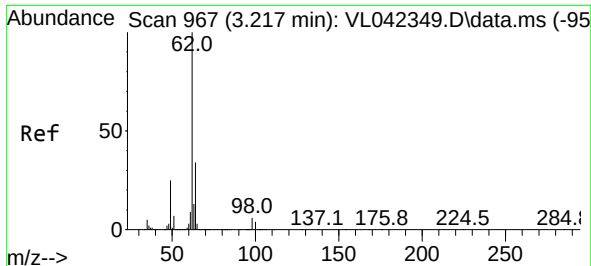
Ion Ratio Lower Upper

78 100

77 22.1 17.4 26.0

50 21.3 15.5 23.3





#37

1,2-Dichloroethane

Concen: 10.377 ppbv

RT: 3.224 min Scan# 9

Delta R.T. 0.007 min

Lab File: VL042358.D

Acq: 17 Apr 2025 15:39

Instrument :

MSVOA_L

ClientSampleId :

VL0417ABS01

Tgt Ion: 62 Resp: 23661

Ion Ratio Lower Upper

62 100

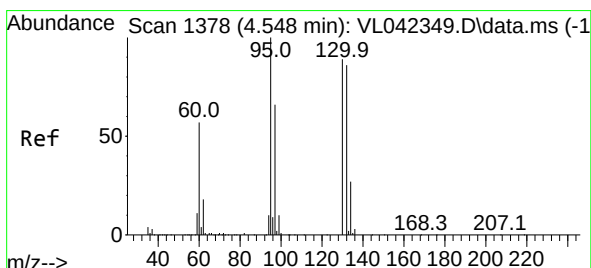
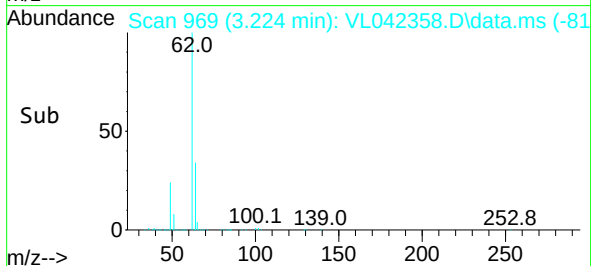
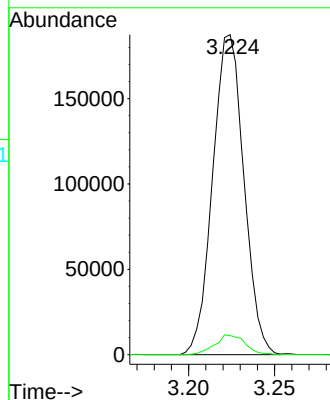
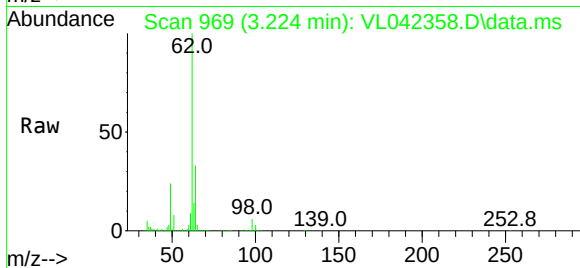
98 6.0 5.1 7.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#38

Trichloroethene

Concen: 9.251 ppbv

RT: 4.558 min Scan# 1381

Delta R.T. 0.010 min

Lab File: VL042358.D

Acq: 17 Apr 2025 15:39

Tgt Ion:130 Resp: 153596

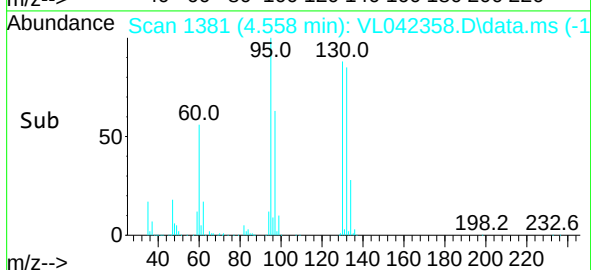
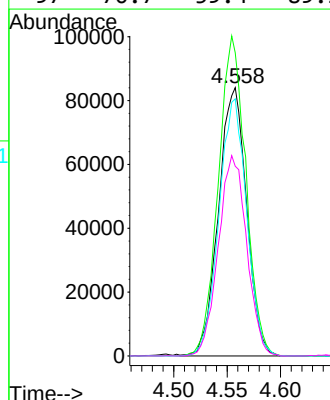
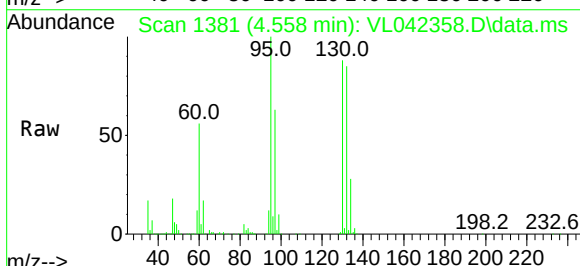
Ion Ratio Lower Upper

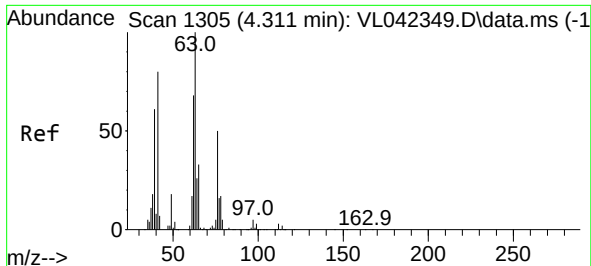
130 100

95 113.0 89.8 134.6

132 95.8 77.7 116.5

97 70.7 59.4 89.2





#39

1,2-Dichloropropane

Concen: 9.866 ppbv

RT: 4.321 min Scan# 1308

Delta R.T. 0.010 min

Lab File: VL042358.D

Acq: 17 Apr 2025 15:39

Instrument :

MSVOA_L

ClientSampleId :

VL0417ABS01

Tgt Ion: 63 Resp: 13966

Ion Ratio Lower Upper

63 100

41 75.7 64.2 96.2

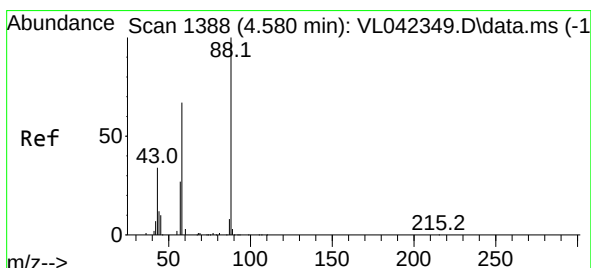
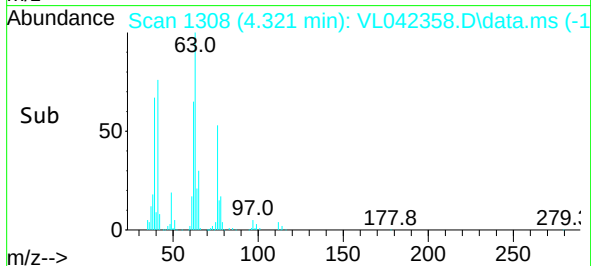
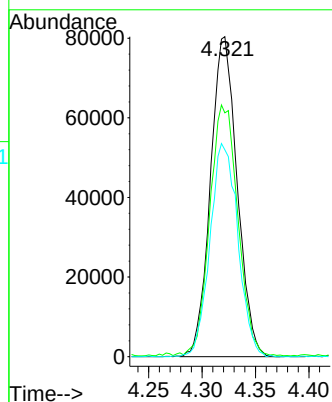
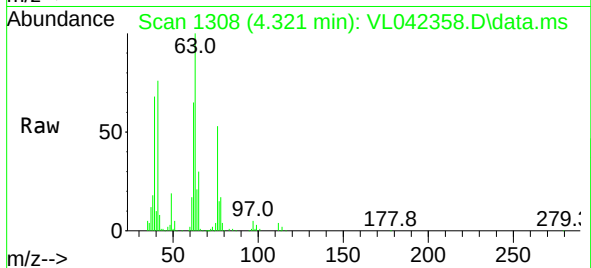
62 64.6 54.3 81.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#40

1,4-Dioxane

Concen: 8.716 ppbv

RT: 4.590 min Scan# 1391

Delta R.T. 0.010 min

Lab File: VL042358.D

Acq: 17 Apr 2025 15:39

Tgt Ion: 88 Resp: 67808

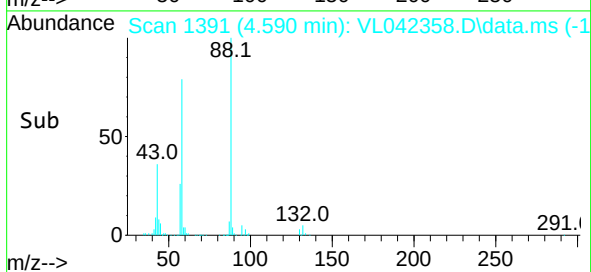
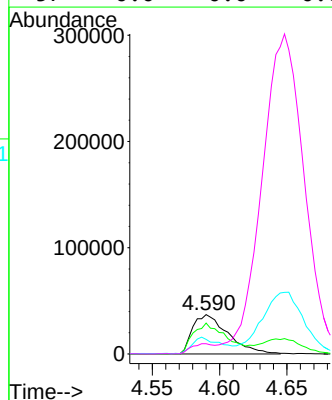
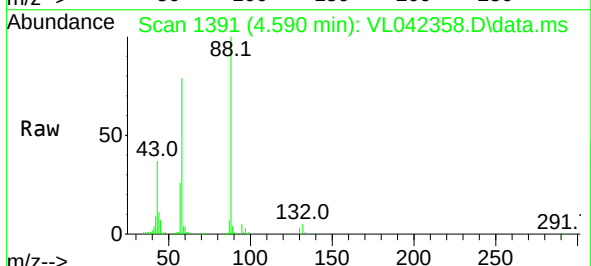
Ion Ratio Lower Upper

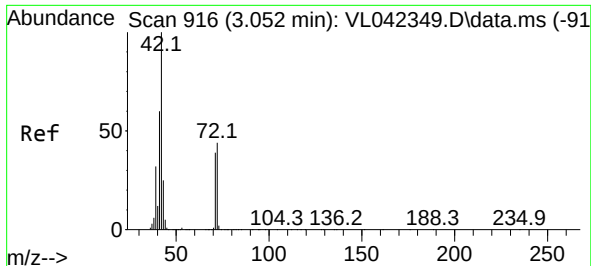
88 100

58 75.4 61.4 92.0

43 37.1 23.2 34.8

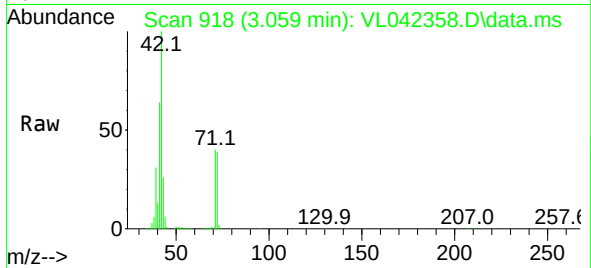
57 0.0 0.0 0.0





#41
Tetrahydrofuran
Concen: 9.715 ppbv
RT: 3.059 min Scan# 916
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

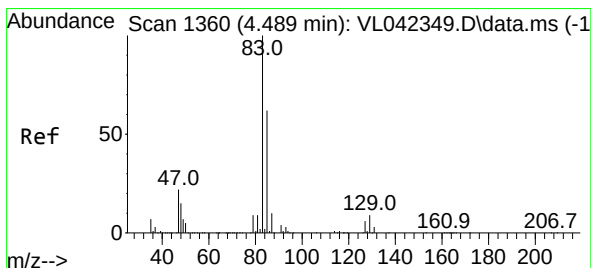
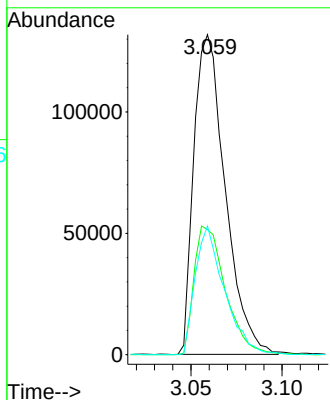
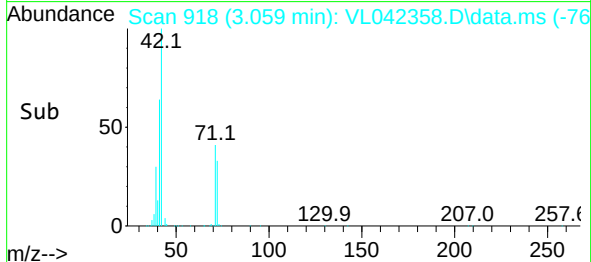
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01



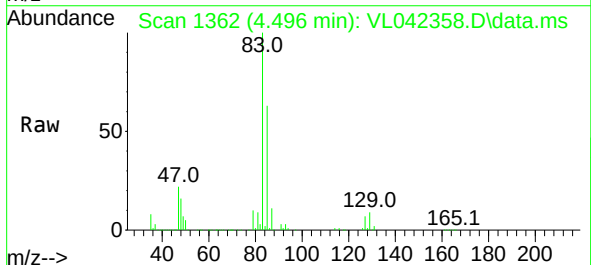
Tgt Ion: 42 Resp: 15777
Ion Ratio Lower Upper
42 100
72 40.3 32.3 48.5
71 37.7 31.4 47.2

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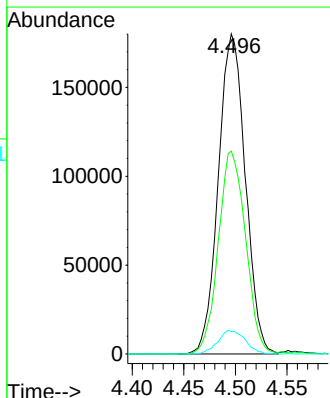
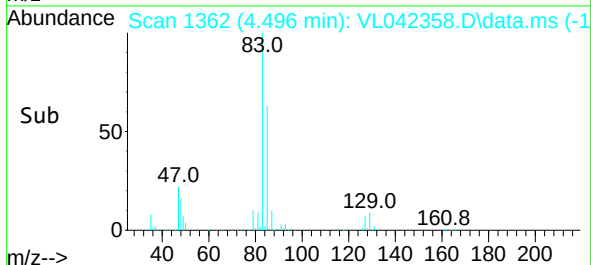
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

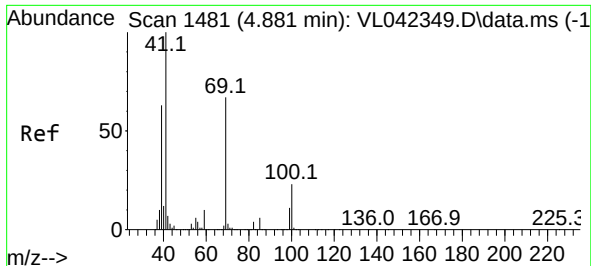


#42
Bromodichloromethane
Concen: 10.326 ppbv
RT: 4.496 min Scan# 1362
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39



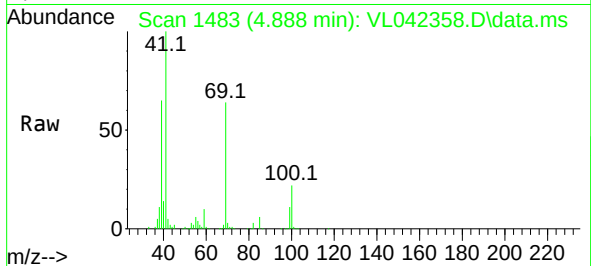
Tgt Ion: 83 Resp: 327652
Ion Ratio Lower Upper
83 100
85 63.3 49.7 74.5
127 7.0 5.1 7.7





#43
Methyl Methacrylate
Concen: 9.304 ppbv
RT: 4.888 min Scan# 1481
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

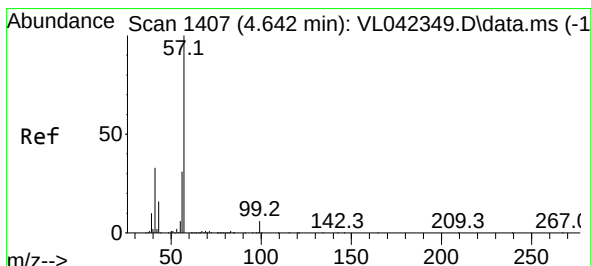
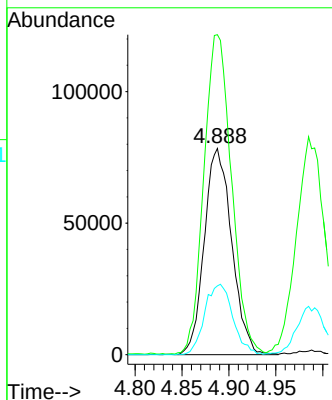
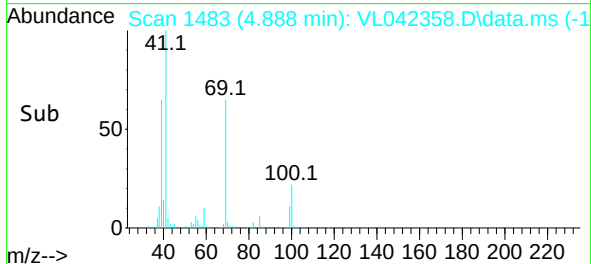
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01



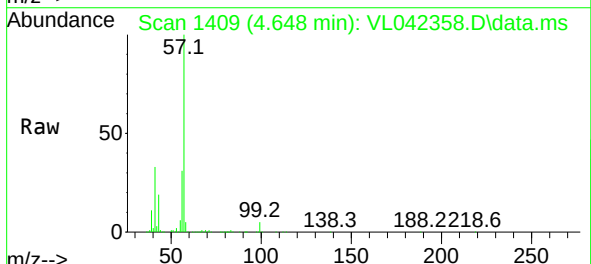
Tgt Ion: 69 Resp: 159292
Ion Ratio Lower Upper
69 100
41 155.9 118.6 177.8
100 35.1 28.2 42.2

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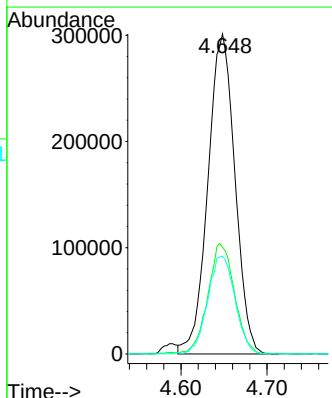
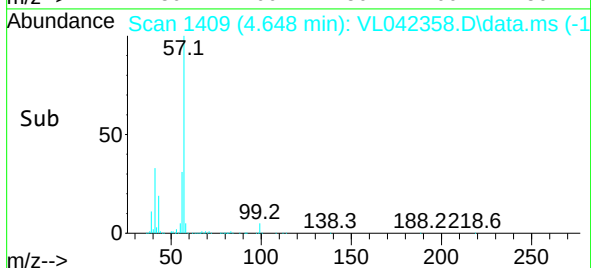
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

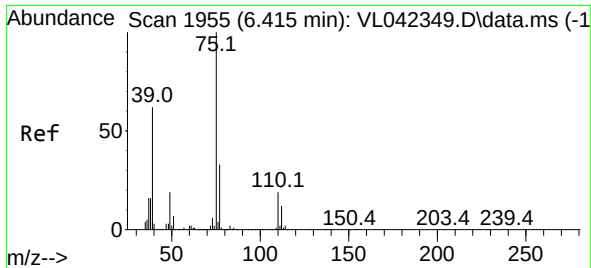


#44
2,2,4-Trimethylpentane
Concen: 10.019 ppbv
RT: 4.648 min Scan# 1409
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39



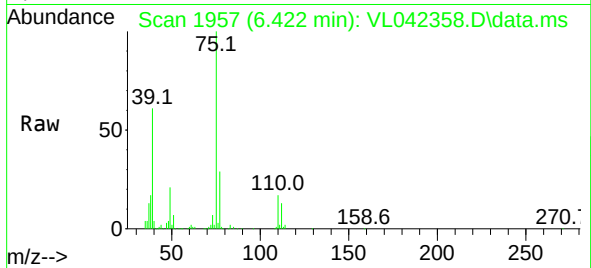
Tgt Ion: 57 Resp: 657377
Ion Ratio Lower Upper
57 100
41 34.2 27.2 40.8
56 31.1 25.7 38.5





#45
 t-1,3-Dichloropropene
 Concen: 9.864 ppbv
 RT: 6.422 min Scan# 1955
 Delta R.T. 0.007 min
 Lab File: VL042358.D
 Acq: 17 Apr 2025 15:39

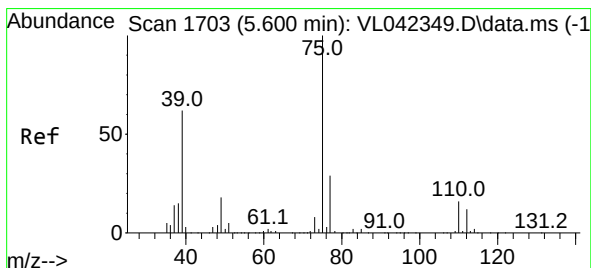
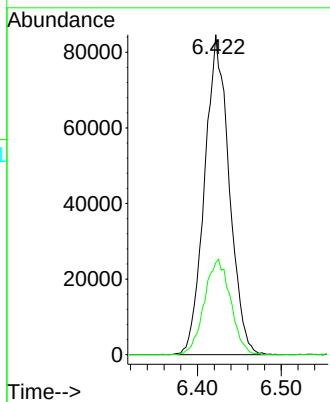
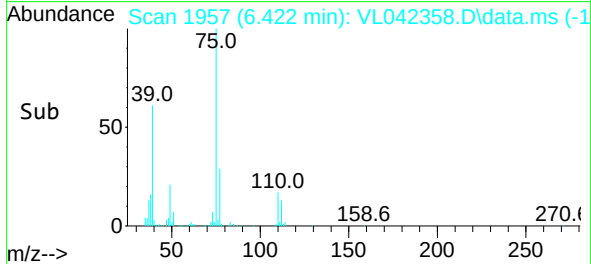
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0417ABS01



Tgt Ion: 75 Resp: 172514
 Ion Ratio Lower Upper
 75 100
 77 28.7 27.0 40.6

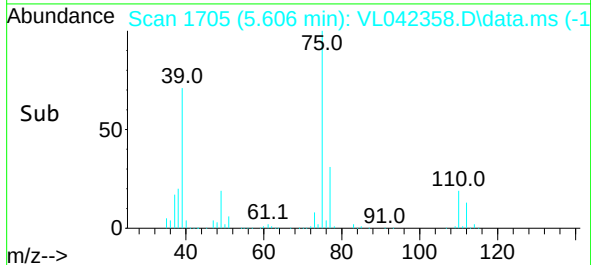
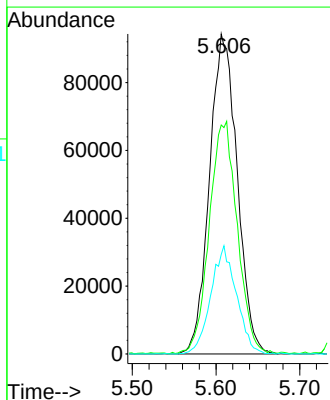
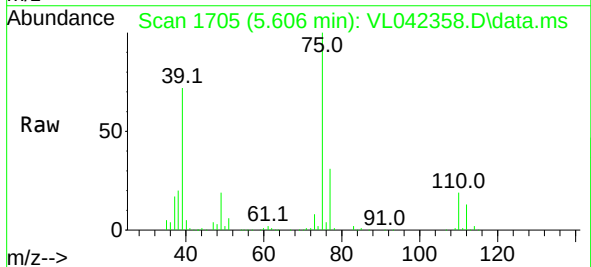
Manual Integrations
 APPROVED

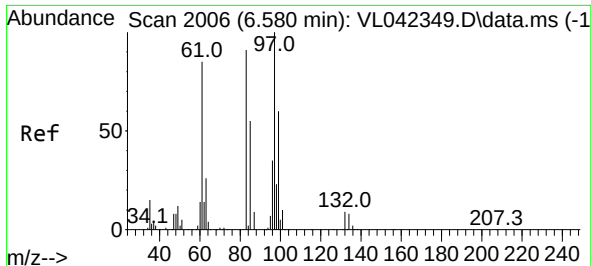
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#46
 cis-1,3-Dichloropropene
 Concen: 10.133 ppbv
 RT: 5.606 min Scan# 1705
 Delta R.T. 0.007 min
 Lab File: VL042358.D
 Acq: 17 Apr 2025 15:39

Tgt Ion: 75 Resp: 216901
 Ion Ratio Lower Upper
 75 100
 39 71.3 50.0 75.0
 77 31.1 23.0 34.6





#47

1,1,2-Trichloroethane

Concen: 10.161 ppbv

RT: 6.590 min Scan# 2006

Delta R.T. 0.010 min

Lab File: VL042358.D

Acq: 17 Apr 2025 15:39

Instrument :

MSVOA_L

ClientSampleId :

VL0417ABS01

Tgt Ion: 97 Resp: 14654

Ion Ratio Lower Upper

97 100

83 88.7 72.8 109.2

85 49.6 44.2 66.4

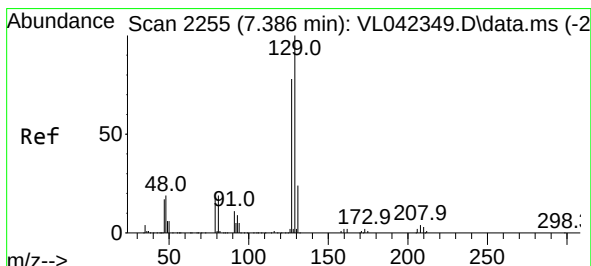
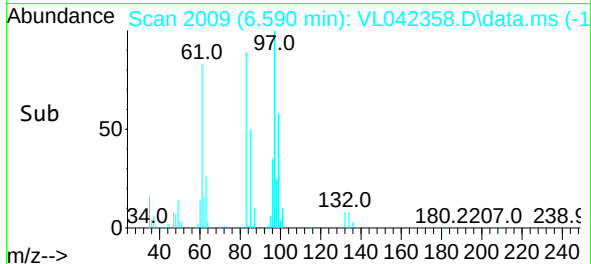
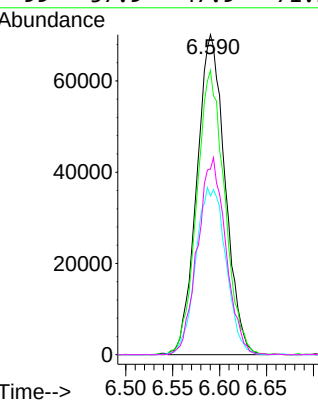
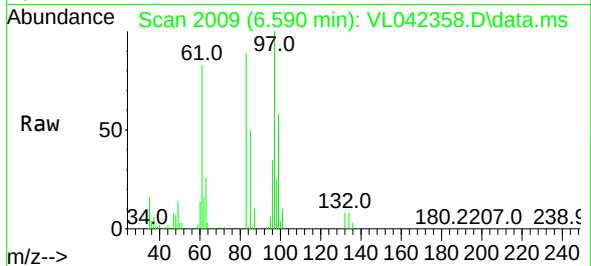
99 57.9 47.9 71.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#48

Dibromochloromethane

Concen: 10.261 ppbv

RT: 7.396 min Scan# 2258

Delta R.T. 0.010 min

Lab File: VL042358.D

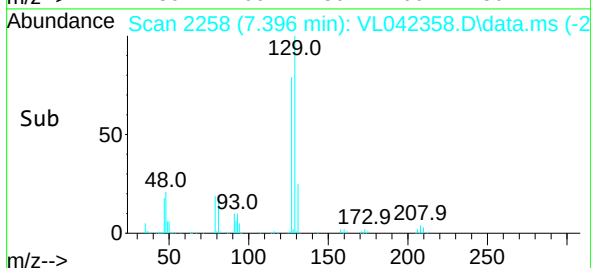
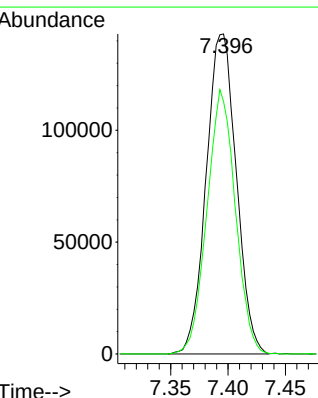
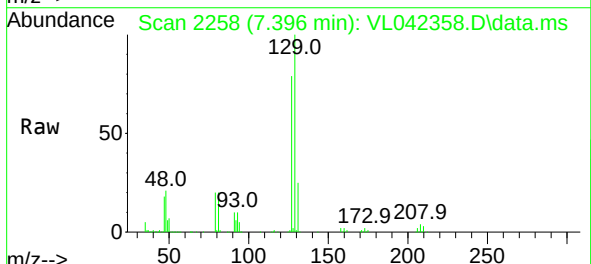
Acq: 17 Apr 2025 15:39

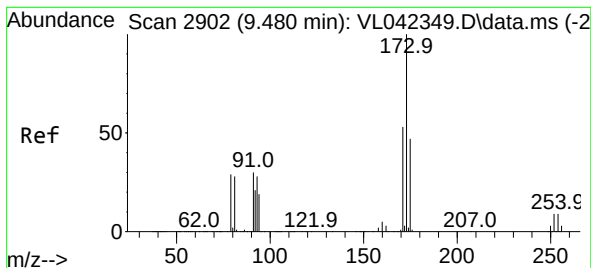
Tgt Ion:129 Resp: 261470

Ion Ratio Lower Upper

129 100

127 77.9 39.1 117.3





#49

Bromoform

Concen: 9.936 ppbv

RT: 9.487 min Scan# 2902

Delta R.T. 0.007 min

Lab File: VL042358.D

Acq: 17 Apr 2025 15:39

Instrument :

MSVOA_L

ClientSampleId :

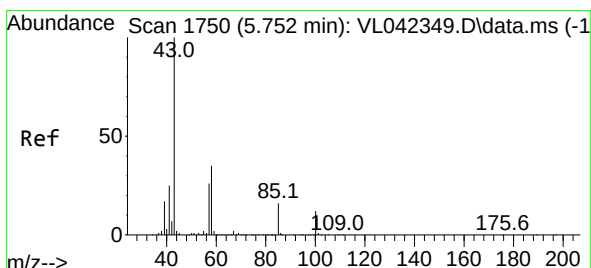
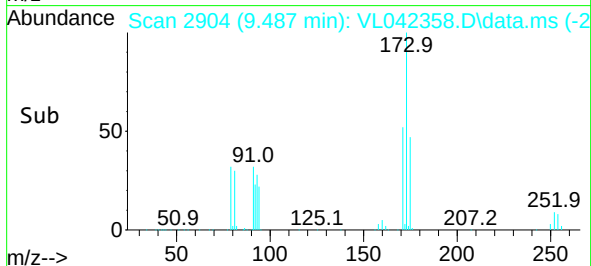
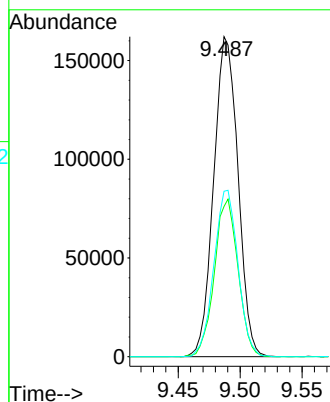
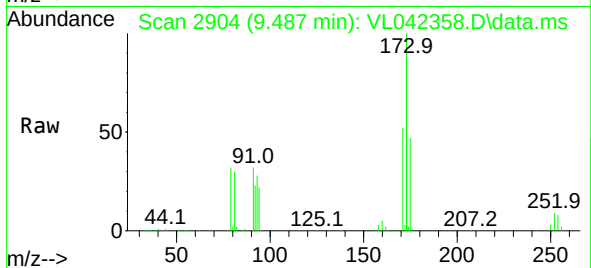
VL0417ABS01

Tgt Ion:173 Resp: 221372
 Ion Ratio Lower Upper
 173 100
 175 48.0 38.2 57.2
 171 51.7 40.9 61.3

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#50

4-Methyl-2-Pentanone

Concen: 8.810 ppbv

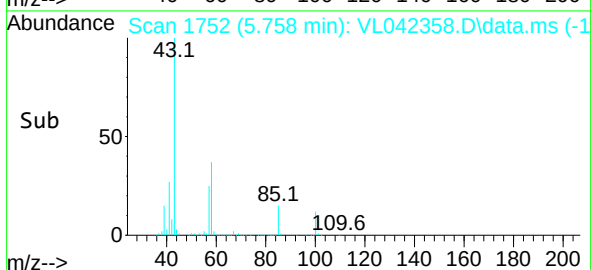
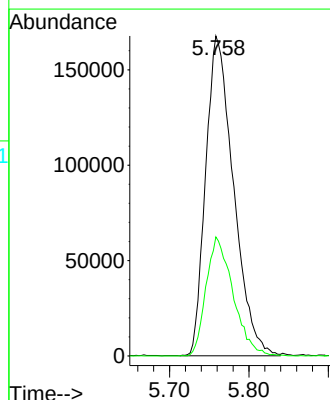
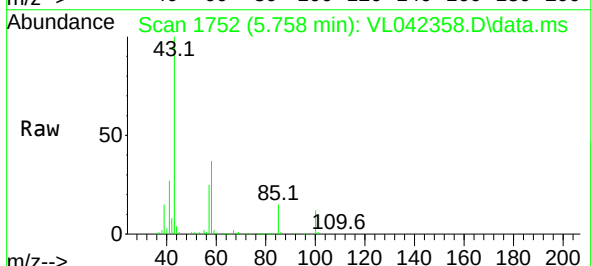
RT: 5.758 min Scan# 1752

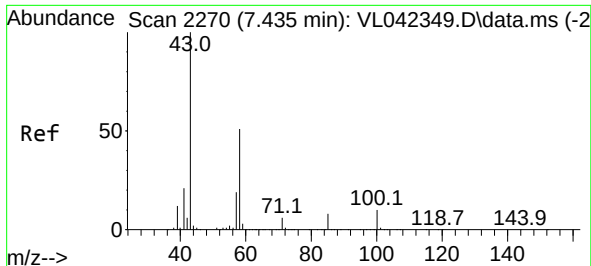
Delta R.T. 0.007 min

Lab File: VL042358.D

Acq: 17 Apr 2025 15:39

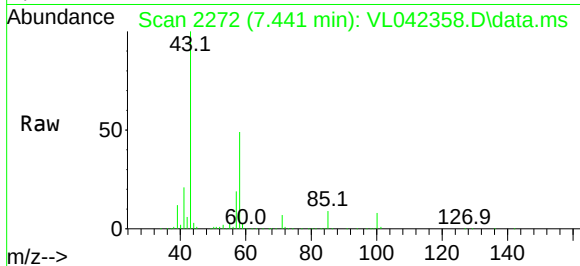
Tgt Ion: 43 Resp: 407804
 Ion Ratio Lower Upper
 43 100
 58 36.2 28.6 43.0





#51
2-Hexanone
Concen: 8.013 ppbv
RT: 7.441 min Scan# 21
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

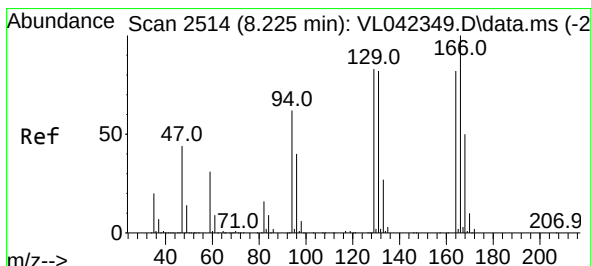
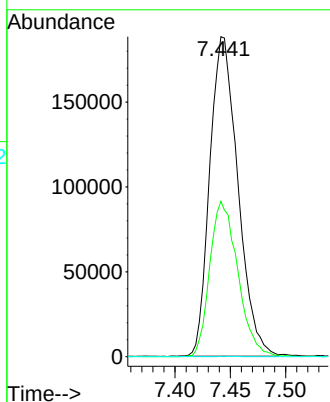
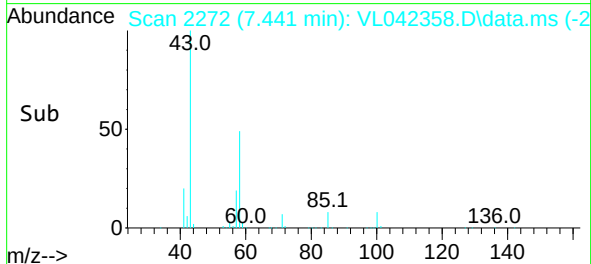
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01



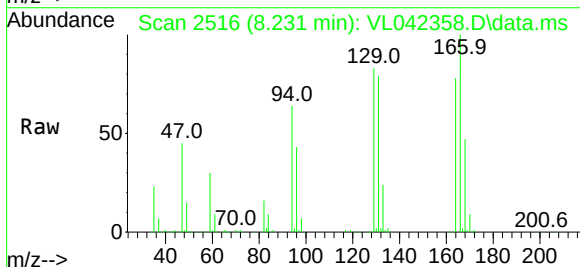
Tgt Ion: 43 Resp: 332640
Ion Ratio Lower Upper
43 100
58 48.6 40.2 60.4
98 0.1 0.1 0.1

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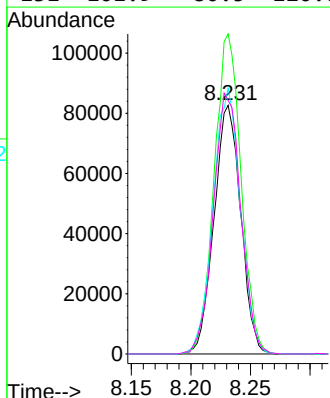
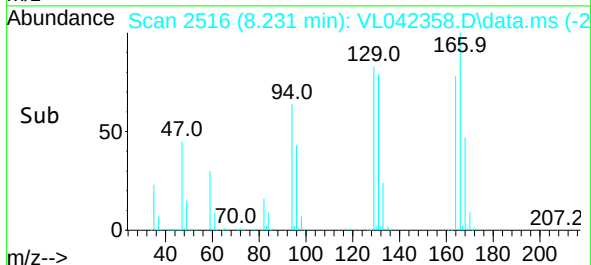
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

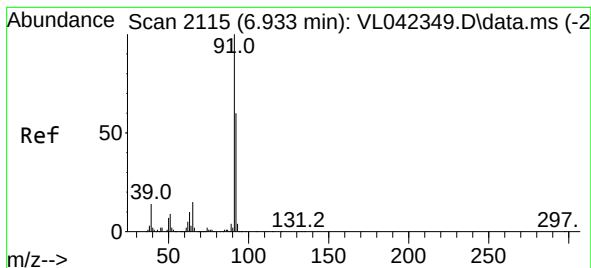


#52
Tetrachloroethene
Concen: 8.763 ppbv
RT: 8.231 min Scan# 2516
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39



Tgt Ion:164 Resp: 128670
Ion Ratio Lower Upper
164 100
166 128.7 98.2 147.2
129 106.9 81.8 122.8
131 101.9 80.5 120.7





#53

Toluene

Concen: 9.818 ppbv

RT: 6.943 min Scan# 2115

Delta R.T. 0.010 min

Lab File: VL042358.D

Acq: 17 Apr 2025 15:39

Instrument :

MSVOA_L

ClientSampleId :

VL0417ABS01

Tgt Ion: 91 Resp: 44758

Ion Ratio Lower Upper

91 100

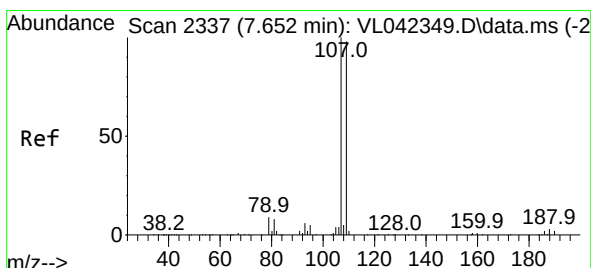
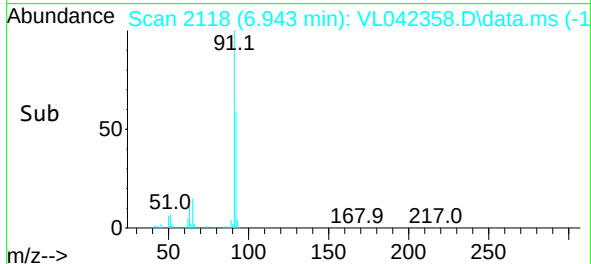
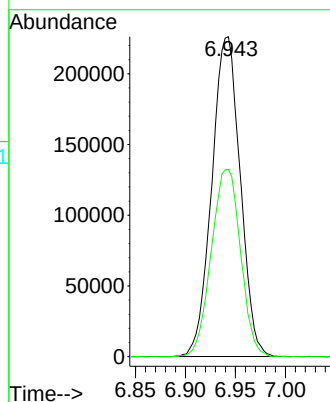
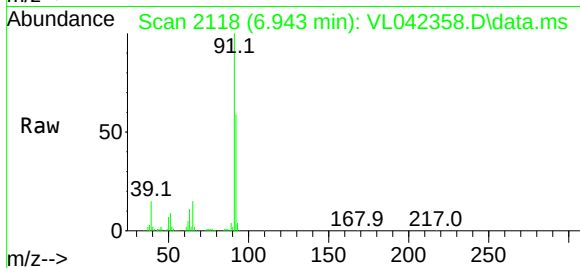
92 60.3 48.2 72.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#54

1,2-Dibromoethane

Concen: 9.899 ppbv

RT: 7.658 min Scan# 2339

Delta R.T. 0.007 min

Lab File: VL042358.D

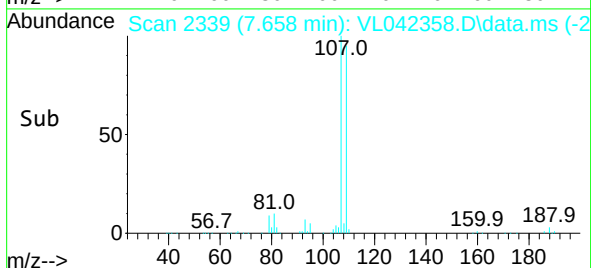
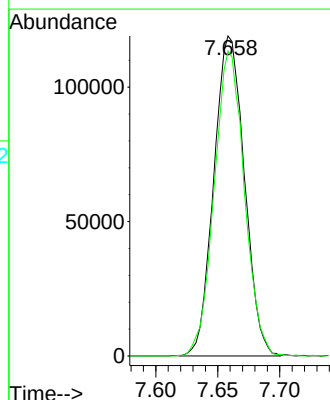
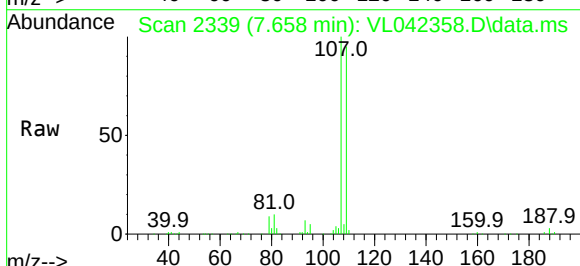
Acq: 17 Apr 2025 15:39

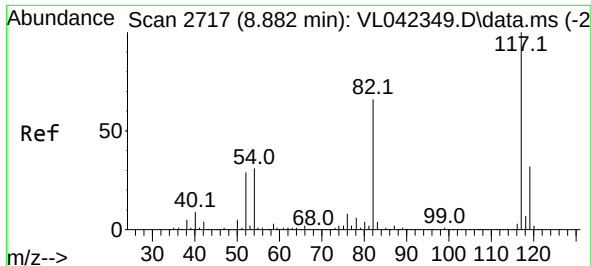
Tgt Ion:107 Resp: 204328

Ion Ratio Lower Upper

107 100

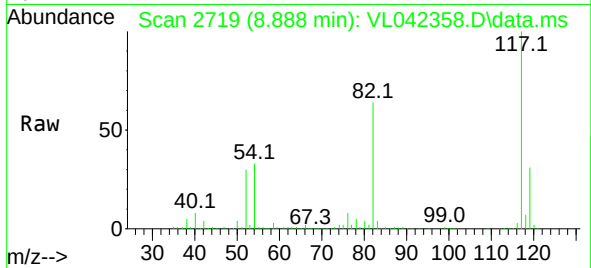
109 95.1 78.2 117.4





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2718
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

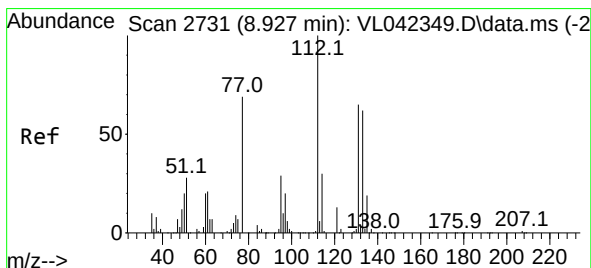
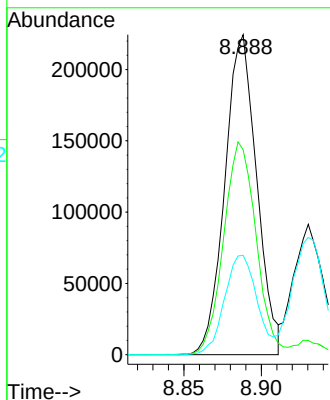
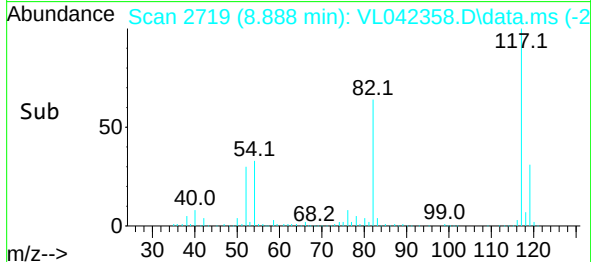
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01



Tgt Ion:117 Resp: 32152
Ion Ratio Lower Upper
117 100
82 71.8 57.8 86.6
119 32.5 25.2 37.8

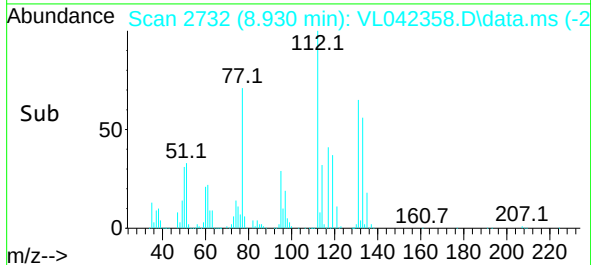
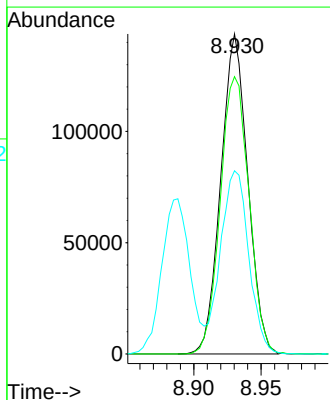
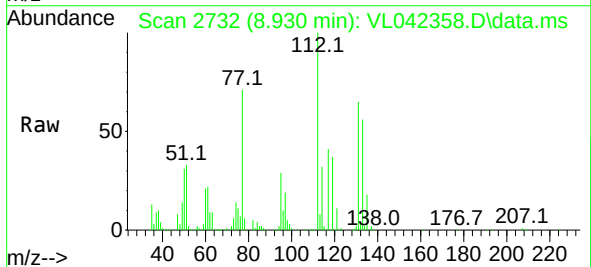
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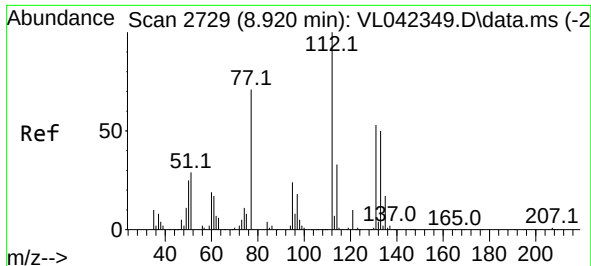
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#56
1,1,1,2-Tetrachloroethane
Concen: 10.275 ppbv
RT: 8.930 min Scan# 2732
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

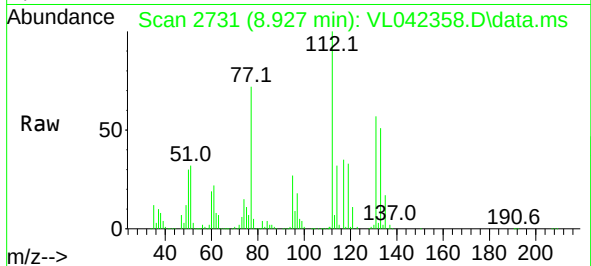
Tgt Ion:131 Resp: 199945
Ion Ratio Lower Upper
131 100
133 92.5 78.3 117.5
119 60.2 48.7 73.1





#57
Chlorobenzene
Concen: 10.022 ppbv
RT: 8.927 min Scan# 21
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

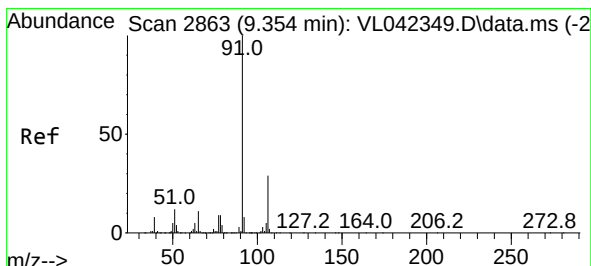
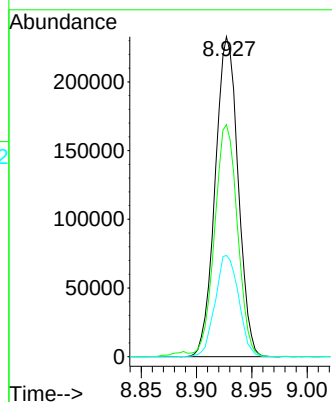
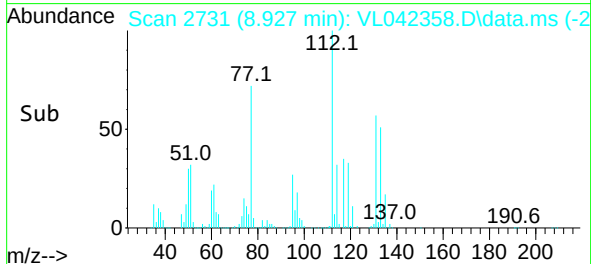
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01



Tgt Ion: 112 Resp: 33514
Ion Ratio Lower Upper
112 100
77 72.4 57.8 86.6
114 31.7 29.3 35.9

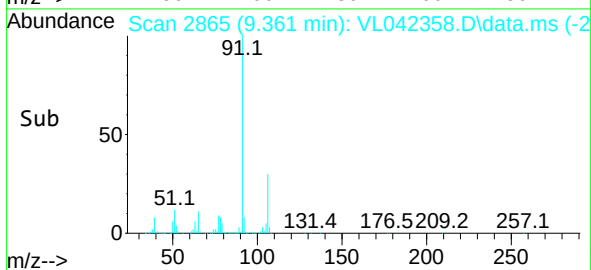
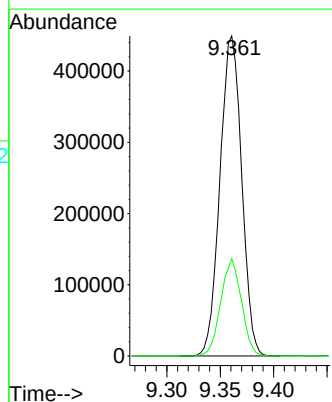
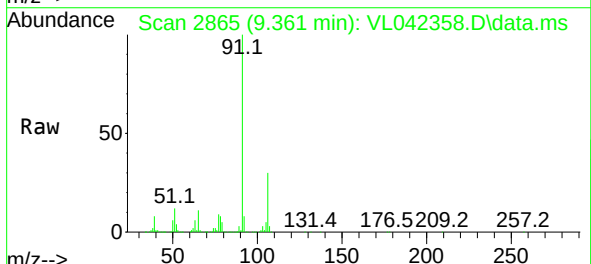
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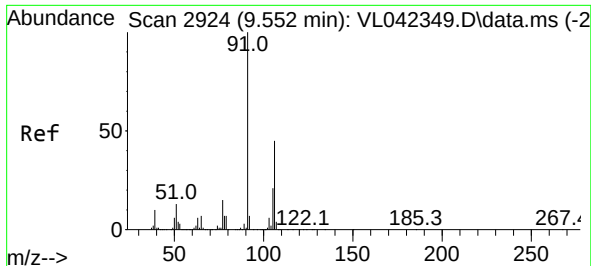
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#58
Ethyl Benzene
Concen: 9.975 ppbv
RT: 9.361 min Scan# 2865
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 91 Resp: 635446
Ion Ratio Lower Upper
91 100
106 30.4 23.0 34.4





#59

m/p-Xylene

Concen: 19.806 ppbv m

RT: 9.555 min Scan# 2924

Delta R.T. 0.003 min

Lab File: VL042358.D

Acq: 17 Apr 2025 15:39

Instrument :

MSVOA_L

ClientSampleId :

VL0417ABS01

Tgt Ion: 91 Resp: 101640

Ion Ratio Lower Upper

91 100

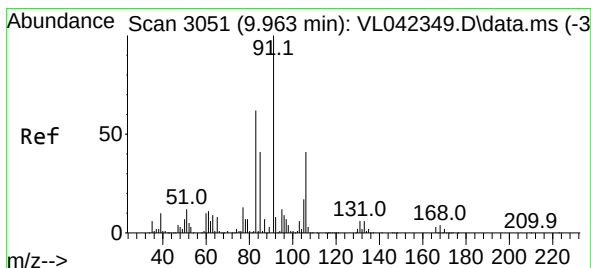
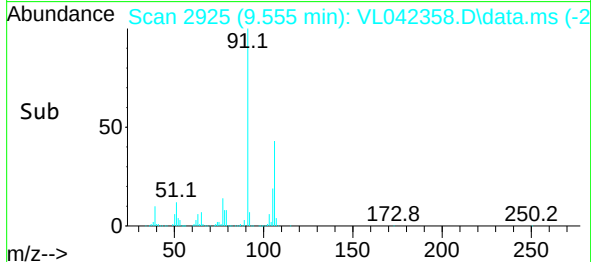
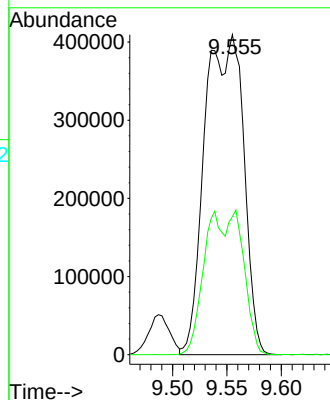
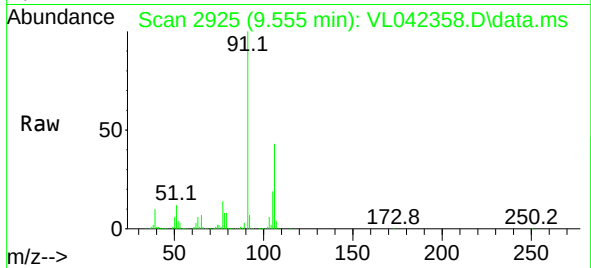
106 44.3 35.4 53.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#60

o-Xylene

Concen: 9.802 ppbv

RT: 9.969 min Scan# 3053

Delta R.T. 0.007 min

Lab File: VL042358.D

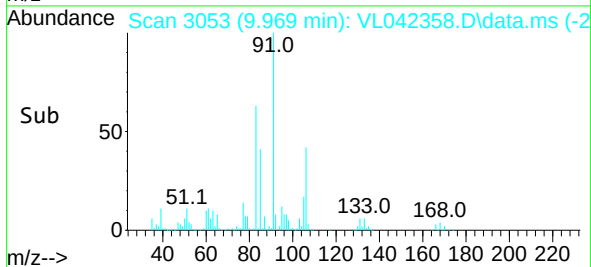
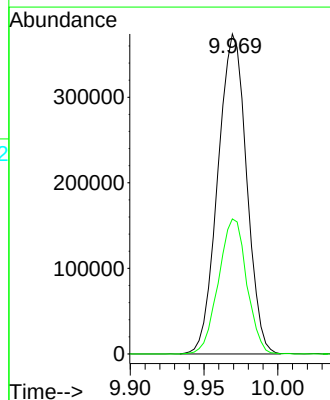
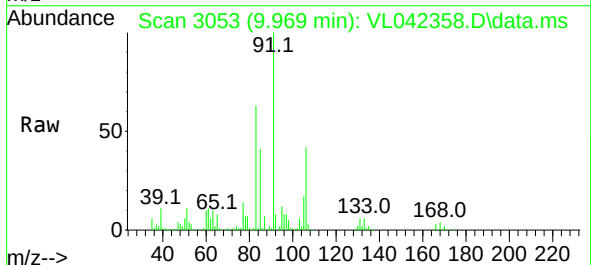
Acq: 17 Apr 2025 15:39

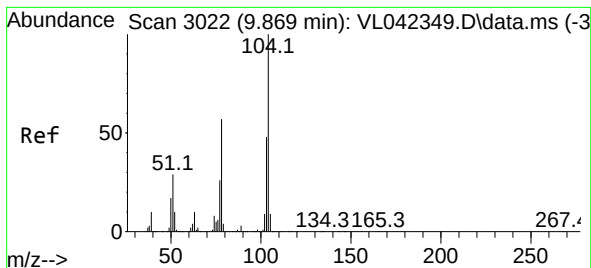
Tgt Ion: 91 Resp: 506535

Ion Ratio Lower Upper

91 100

106 41.4 21.1 63.4





#61

Styrene

Concen: 10.055 ppbv

RT: 9.875 min Scan# 3022

Delta R.T. 0.007 min

Lab File: VL042358.D

Acq: 17 Apr 2025 15:39

Instrument :

MSVOA_L

ClientSampleId :

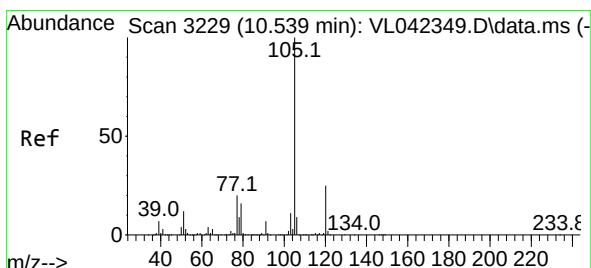
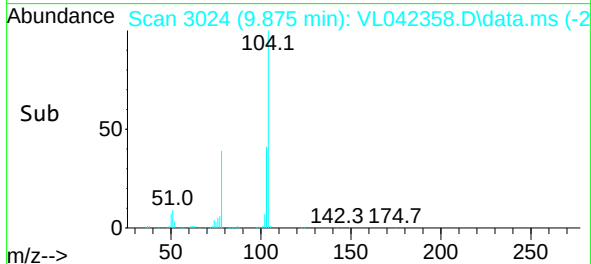
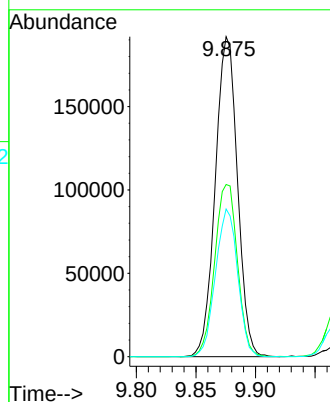
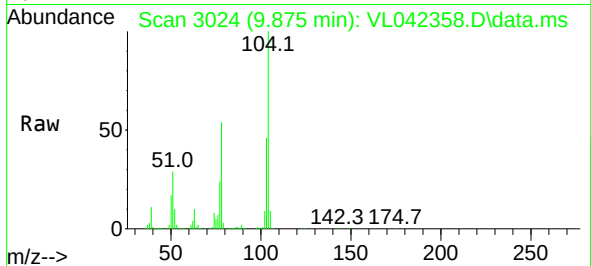
VL0417ABS01

Tgt Ion:104	Resp: 24802
Ion Ratio	Lower Upper
104 100	
78 55.3	44.6 66.8
103 46.2	37.4 56.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#62

Isopropylbenzene

Concen: 9.827 ppbv

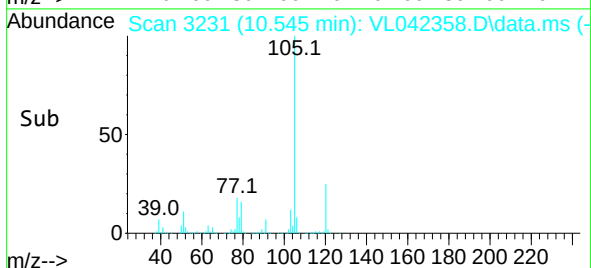
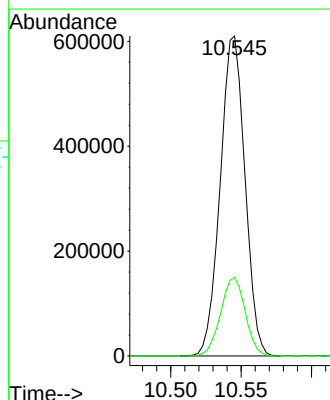
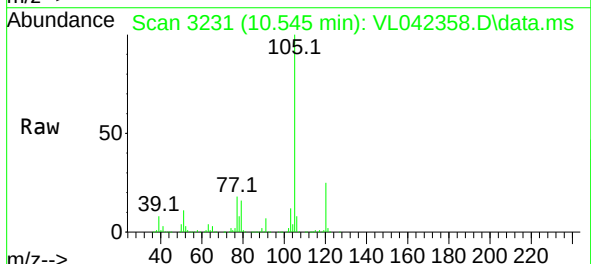
RT: 10.545 min Scan# 3231

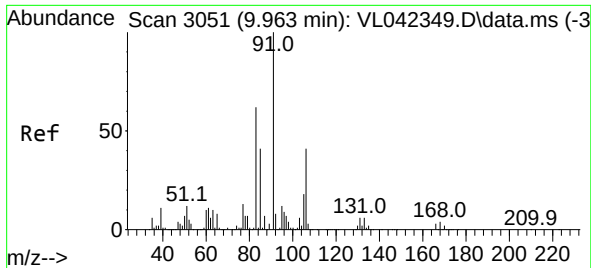
Delta R.T. 0.007 min

Lab File: VL042358.D

Acq: 17 Apr 2025 15:39

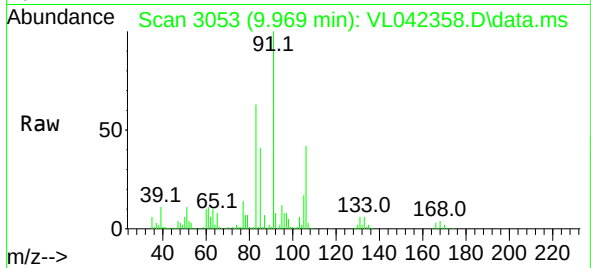
Tgt Ion:105	Resp: 745571
Ion Ratio	Lower Upper
105 100	
120 24.5	19.8 29.8





#63
1,1,2,2-Tetrachloroethane
Concen: 8.916 ppbv
RT: 9.969 min Scan# 3051
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

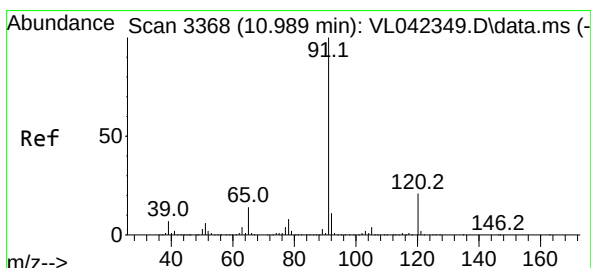
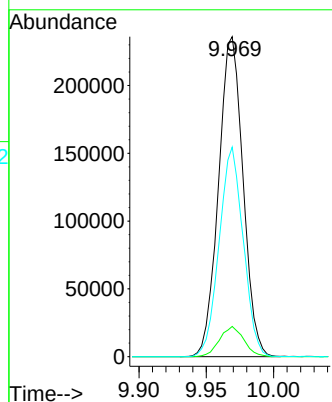
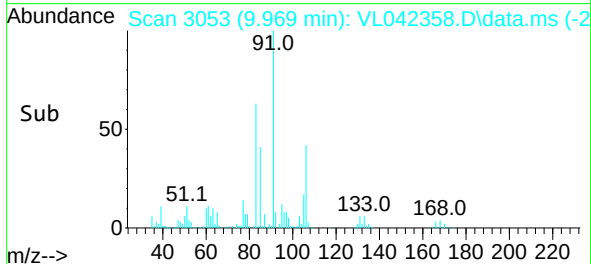
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01



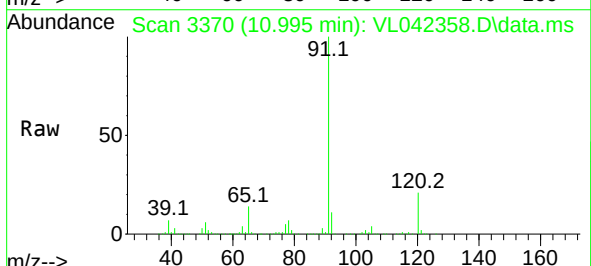
Tgt Ion: 83 Resp: 29858
Ion Ratio Lower Upper
83 100
131 9.4 4.5 13.7
85 64.5 32.4 97.0

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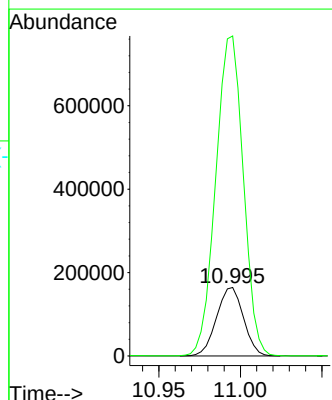
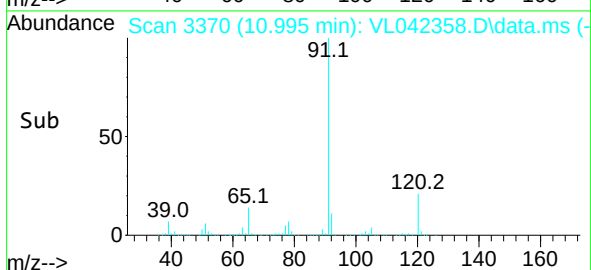
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

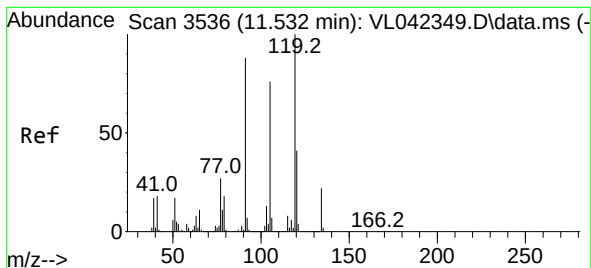


#64
n-propylbenzene
Concen: 9.875 ppbv
RT: 10.995 min Scan# 3370
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39



Tgt Ion:120 Resp: 188310
Ion Ratio Lower Upper
120 100
91 478.2 392.4 588.6





#65

tert-Butylbenzene

Concen: 9.589 ppbv

RT: 11.536 min Scan# 3536

Delta R.T. 0.003 min

Lab File: VL042358.D

Acq: 17 Apr 2025 15:39

Instrument :

MSVOA_L

ClientSampleId :

VL0417ABS01

Tgt Ion:119 Resp: 66868

Ion Ratio Lower Upper

119 100

91 86.7 74.6 111.8

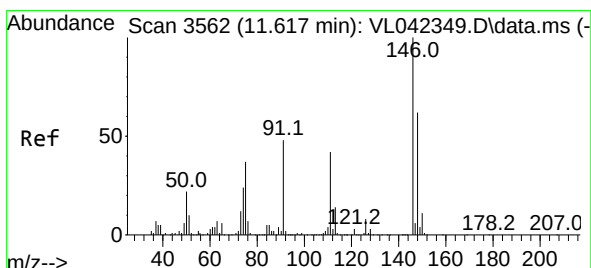
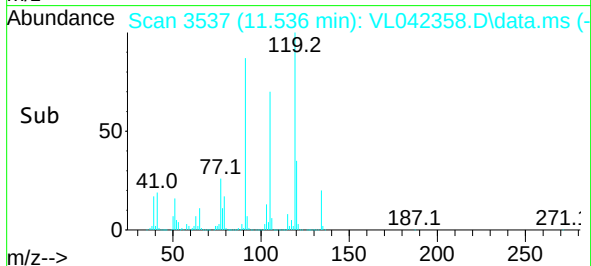
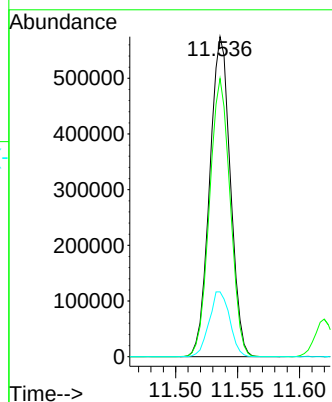
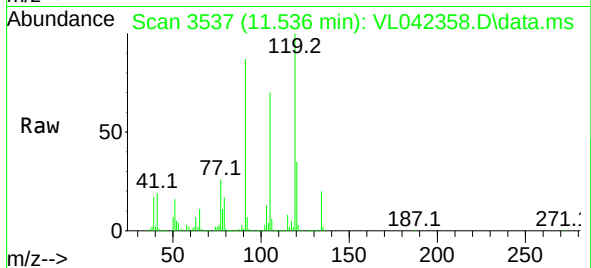
134 20.2 18.8 28.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#66

Benzyl Chloride

Concen: 9.012 ppbv

RT: 11.620 min Scan# 3563

Delta R.T. 0.003 min

Lab File: VL042358.D

Acq: 17 Apr 2025 15:39

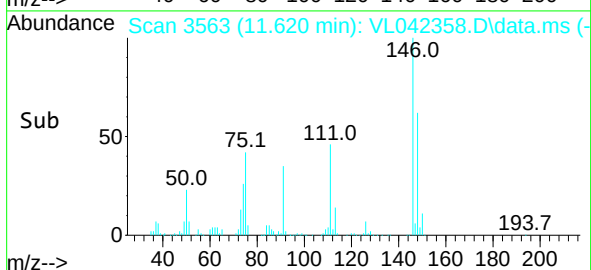
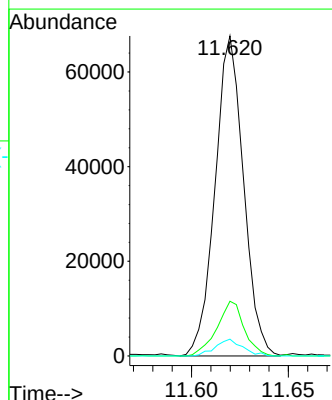
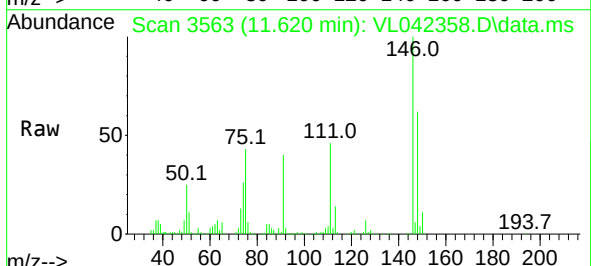
Tgt Ion: 91 Resp: 69058

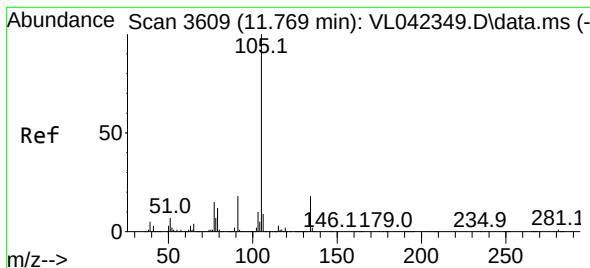
Ion Ratio Lower Upper

91 100

126 16.5 11.8 17.6

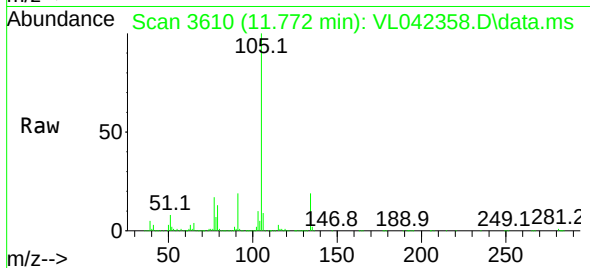
128 5.0 4.5 6.7





#67
 sec-Butylbenzene
 Concen: 9.592 ppbv
 RT: 11.772 min Scan# 30
 Delta R.T. 0.003 min
 Lab File: VL042358.D
 Acq: 17 Apr 2025 15:39

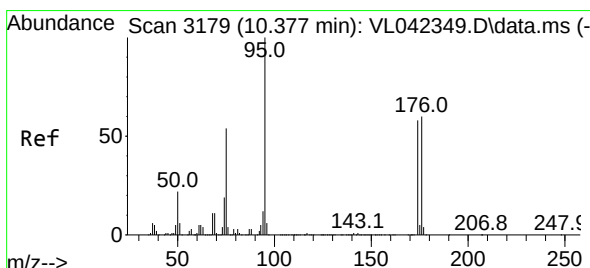
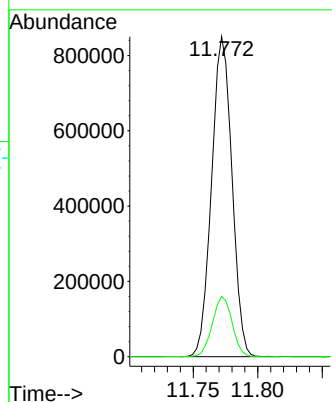
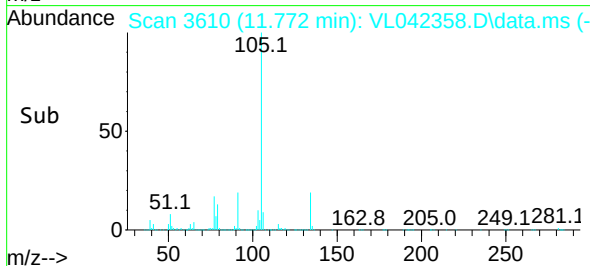
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0417ABS01



Tgt Ion:105 Resp: 930420
 Ion Ratio Lower Upper
 105 100
 134 18.3 14.6 21.8

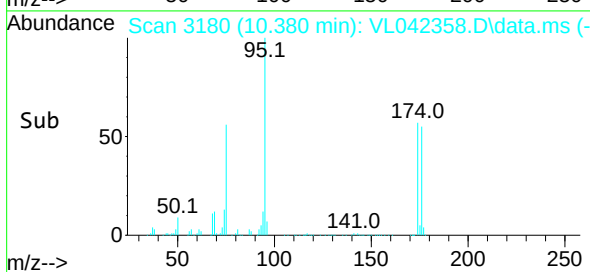
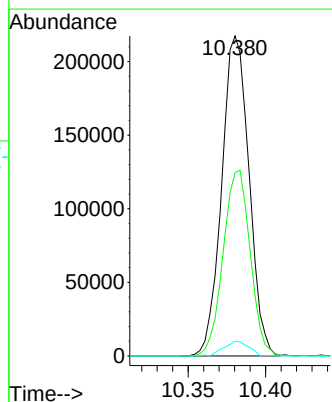
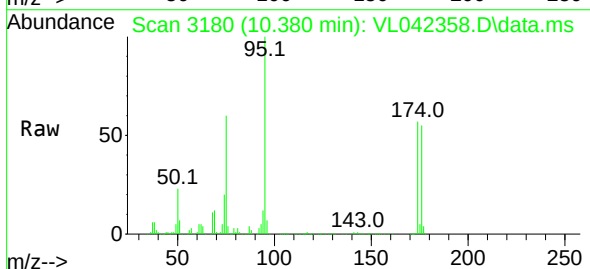
Manual Integrations
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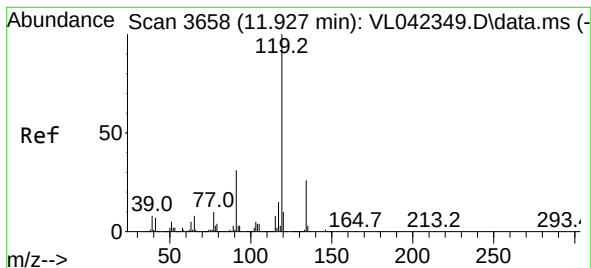
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.096 ppbv
 RT: 10.380 min Scan# 3180
 Delta R.T. 0.003 min
 Lab File: VL042358.D
 Acq: 17 Apr 2025 15:39

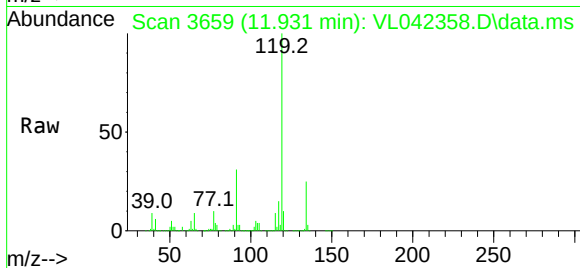
Tgt Ion: 95 Resp: 266757
 Ion Ratio Lower Upper
 95 100
 174 57.3 48.5 72.7
 175 4.3 3.7 5.5





#69
p-Isopropyltoluene
Concen: 9.441 ppbv
RT: 11.931 min Scan# 3659
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

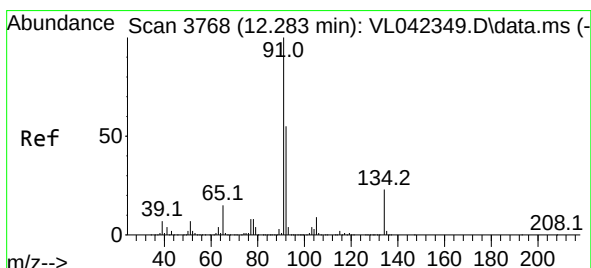
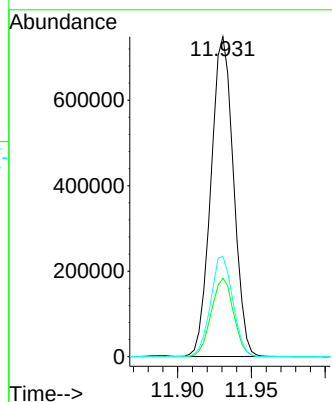
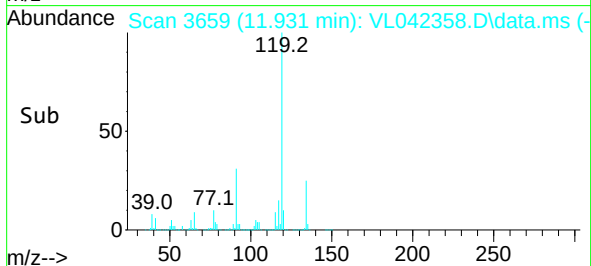
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01



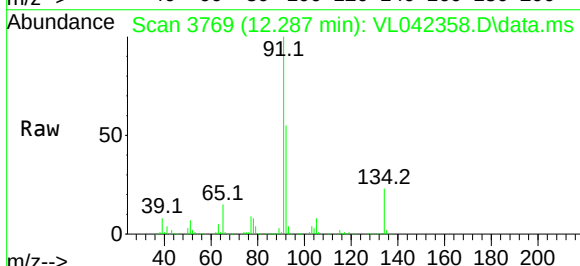
Tgt Ion: 119 Resp: 795532
Ion Ratio Lower Upper
119 100
134 24.5 20.0 30.0
91 31.2 24.4 36.6

Manual Integrations
APPROVED

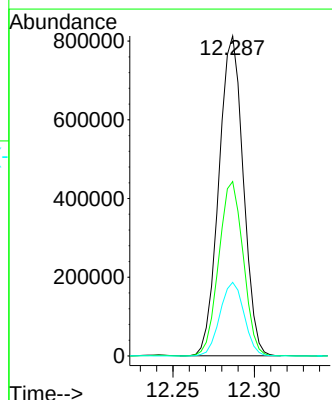
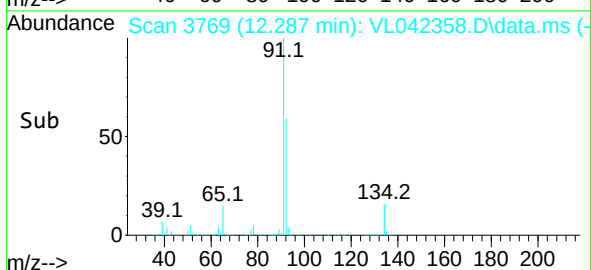
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

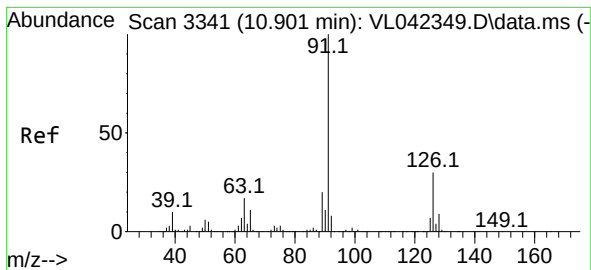


#70
n-Butylbenzene
Concen: 9.644 ppbv
RT: 12.287 min Scan# 3769
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39



Tgt Ion: 91 Resp: 846427
Ion Ratio Lower Upper
91 100
92 54.9 44.2 66.4
134 22.7 18.2 27.4





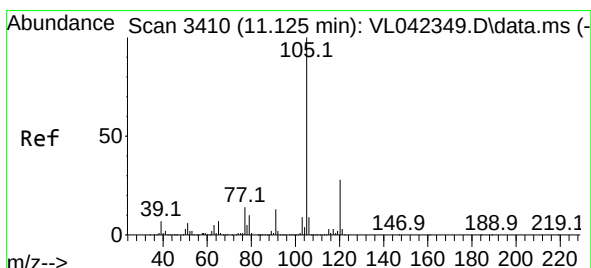
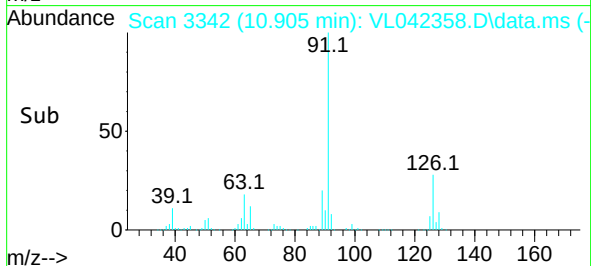
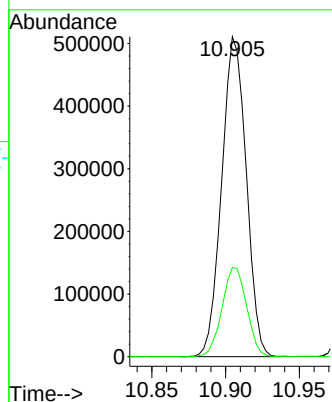
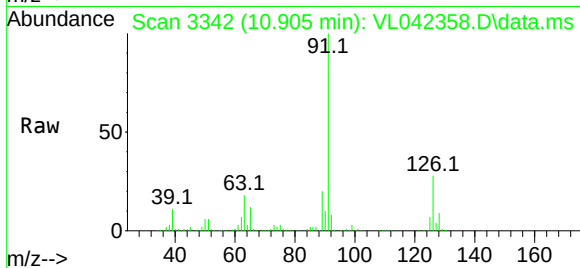
#71
2-Chlorotoluene
Concen: 9.934 ppbv
RT: 10.905 min Scan# 311
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Tgt Ion: 91 Resp: 591154
Ion Ratio Lower Upper
91 100
126 27.9 11.4 45.4

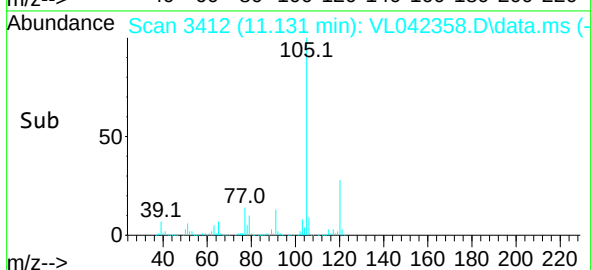
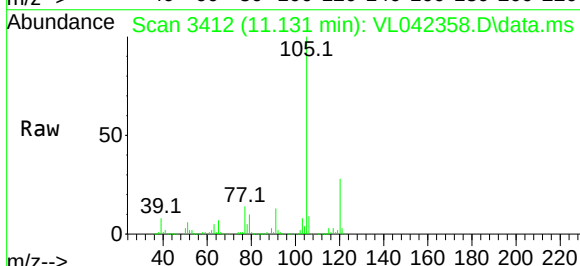
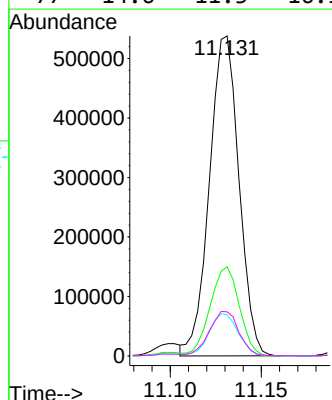
Manual Integrations
APPROVED

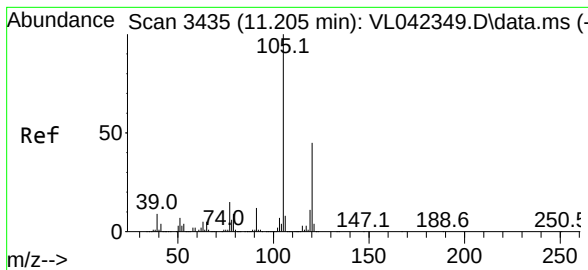
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#72
4-Ethyltoluene
Concen: 9.606 ppbv
RT: 11.131 min Scan# 3412
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

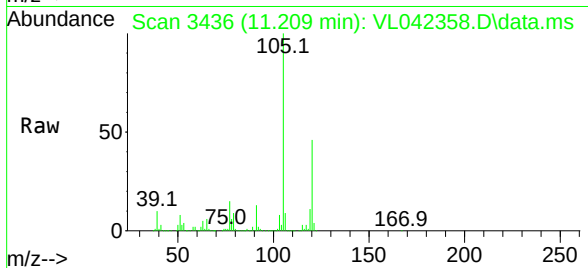
Tgt Ion:105 Resp: 606879
Ion Ratio Lower Upper
105 100
120 28.6 23.2 34.8
91 13.5 10.4 15.6
77 14.6 11.3 16.9





#73
1,3,5-Trimethylbenzene
Concen: 9.557 ppbv
RT: 11.209 min Scan# 3435
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

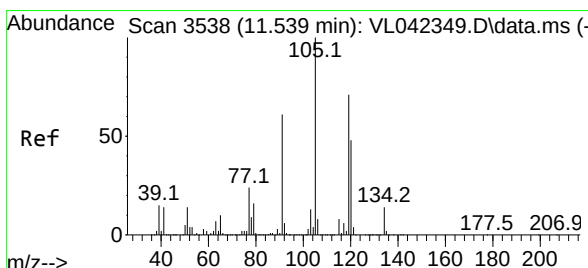
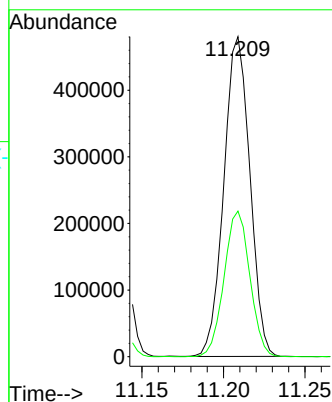
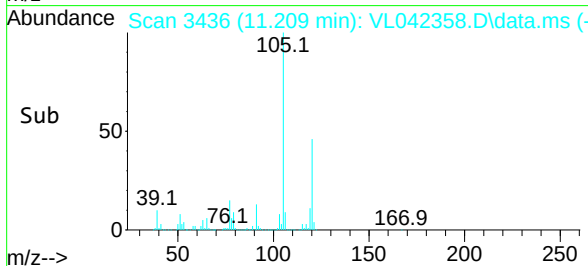
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01



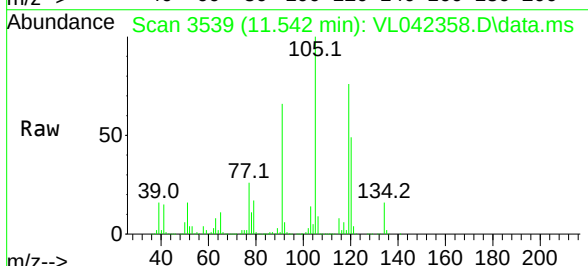
Tgt Ion:105 Resp: 533060
Ion Ratio Lower Upper
105 100
120 45.6 35.6 53.4

Manual Integrations
APPROVED

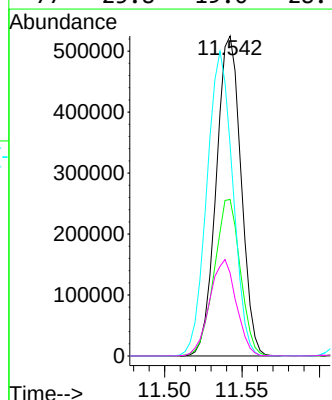
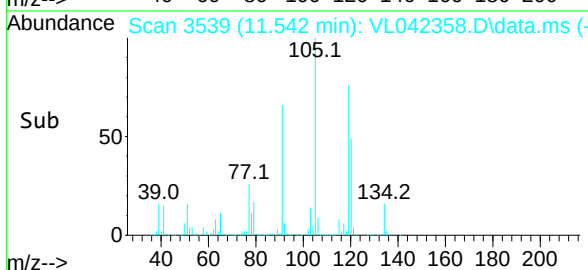
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

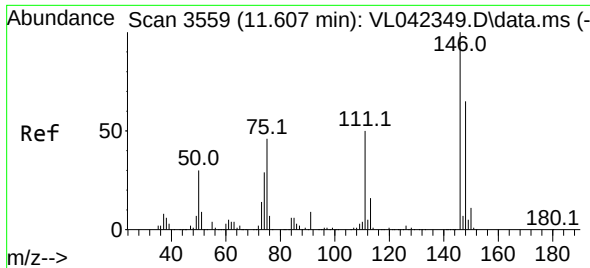


#74
1,2,4-Trimethylbenzene
Concen: 8.976 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39



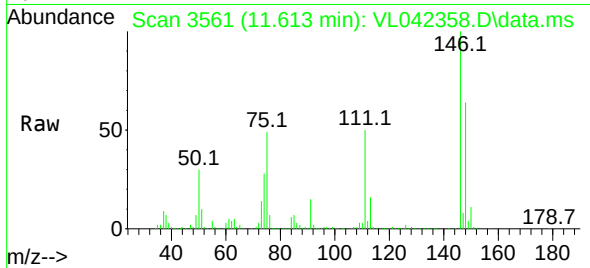
Tgt Ion:105 Resp: 584747
Ion Ratio Lower Upper
105 100
120 48.9 38.1 57.1
91 65.8 48.8 73.2
77 25.8 19.0 28.4





#75
1,3-Dichlorobenzene
Concen: 9.474 ppbv
RT: 11.613 min Scan# 3559
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

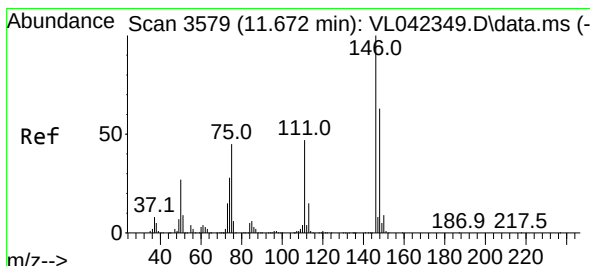
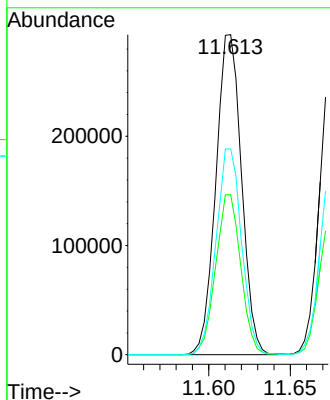
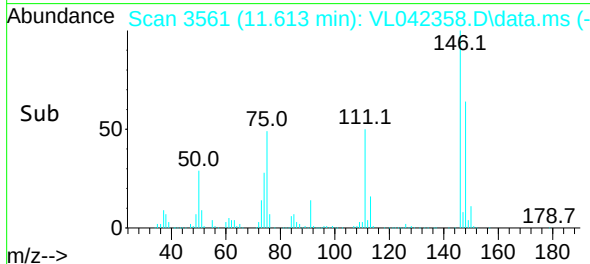
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01



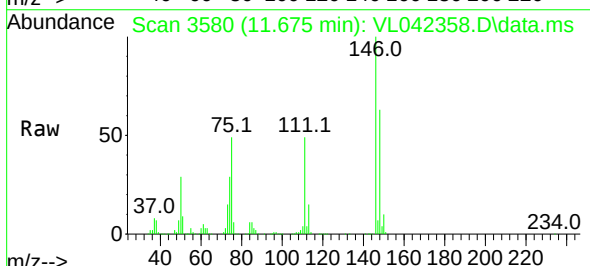
Tgt Ion:146 Resp: 32081
Ion Ratio Lower Upper
146 100
111 48.8 24.3 72.8
148 64.0 31.6 94.8

Manual Integrations
APPROVED

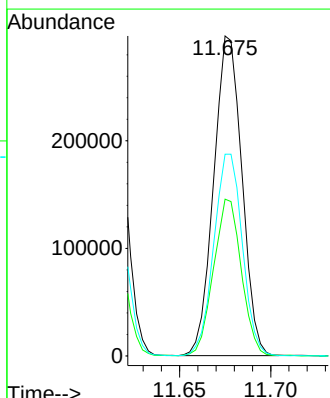
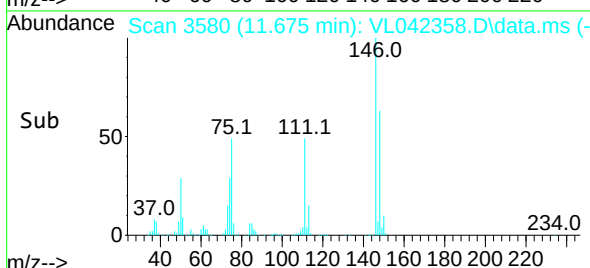
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

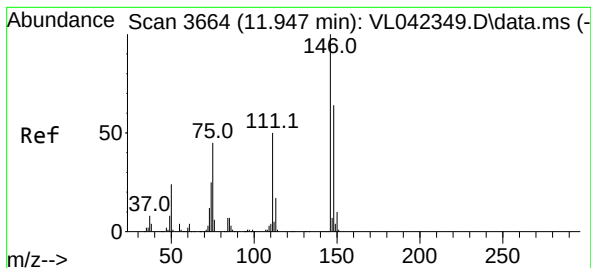


#76
1,4-Dichlorobenzene
Concen: 9.384 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39



Tgt Ion:146 Resp: 319376
Ion Ratio Lower Upper
146 100
111 48.6 24.2 72.6
148 64.1 32.1 96.5





#77

1,2-Dichlorobenzene

Concen: 9.459 ppbv

RT: 11.953 min Scan# 311460

Delta R.T. 0.007 min

Lab File: VL042358.D

Acq: 17 Apr 2025 15:39

Instrument :

MSVOA_L

ClientSampleId :

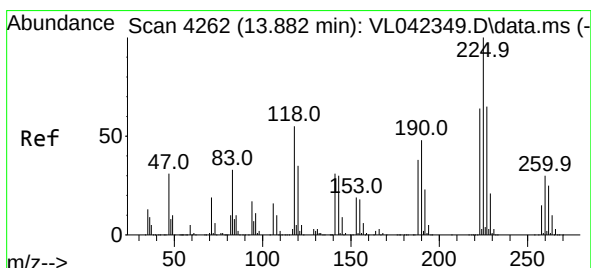
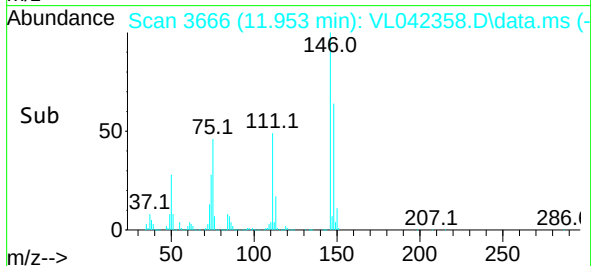
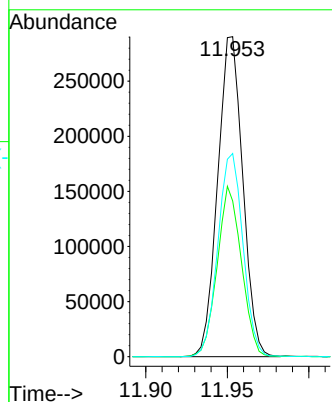
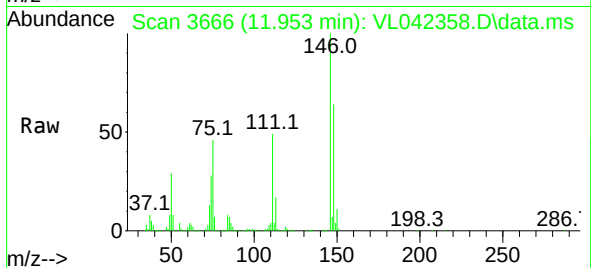
VL0417ABS01

Tgt Ion:	146	Resp:	311460
Ion Ratio	Lower	Upper	
146	100		
111	51.4	25.3	75.9
148	63.4	31.5	94.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#78

Hexachloro-1,3-Butadiene

Concen: 9.124 ppbv

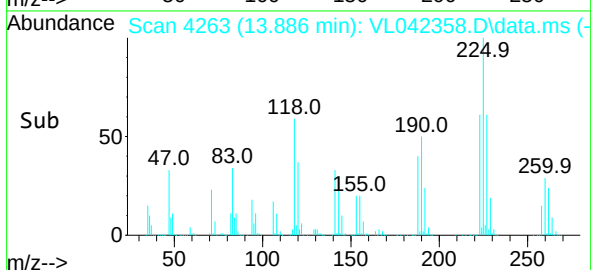
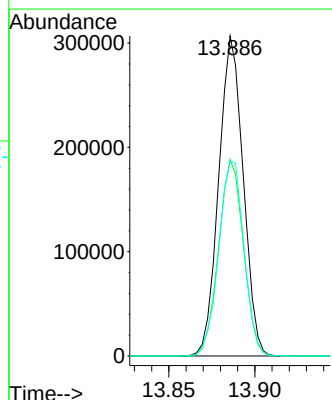
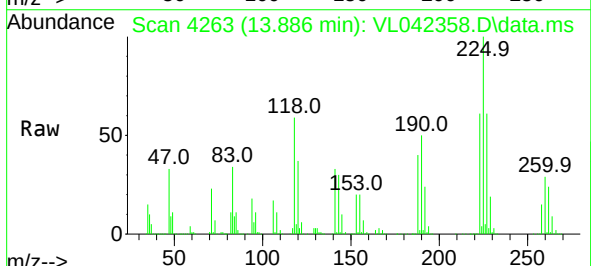
RT: 13.886 min Scan# 4263

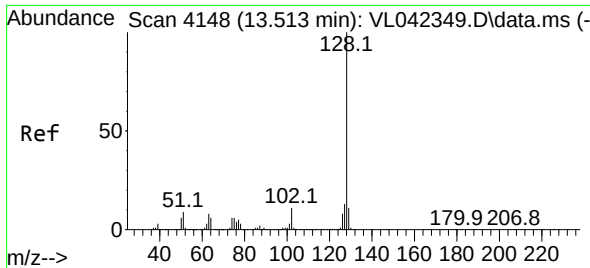
Delta R.T. 0.003 min

Lab File: VL042358.D

Acq: 17 Apr 2025 15:39

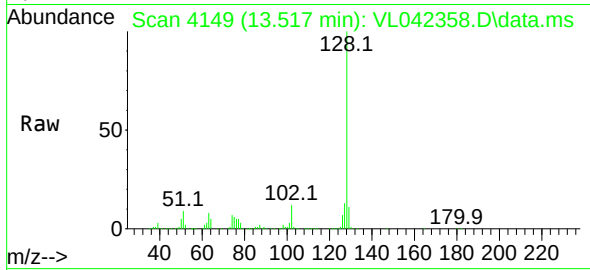
Tgt Ion:	225	Resp:	303379
Ion Ratio	Lower	Upper	
225	100		
223	62.3	50.3	75.5
227	62.9	51.5	77.3





#79
Naphthalene
Concen: 8.999 ppbv
RT: 13.517 min Scan# 4148
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

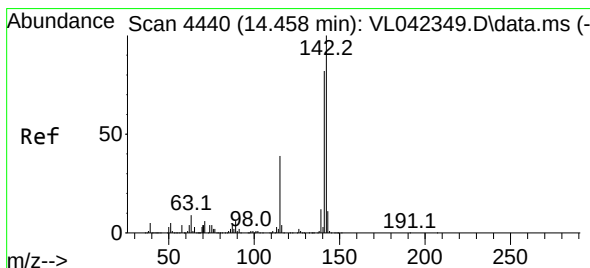
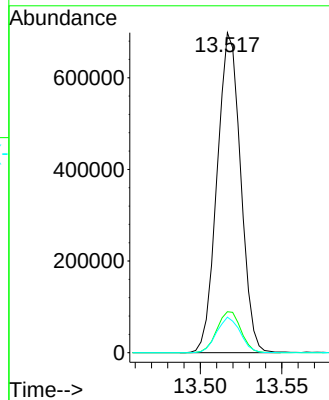
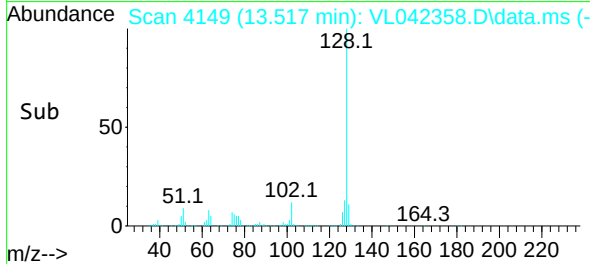
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01



Tgt Ion:128 Resp: 701010
Ion Ratio Lower Upper
128 100
127 12.8 10.6 15.8
129 11.1 8.6 12.8

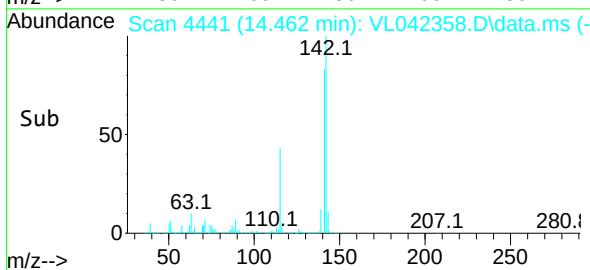
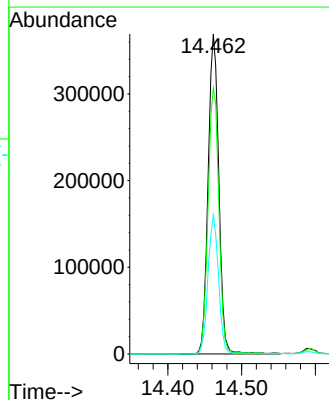
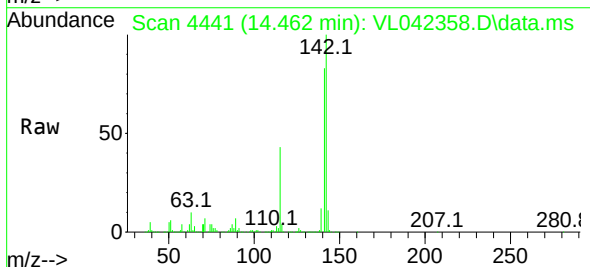
Manual Integrations
APPROVED

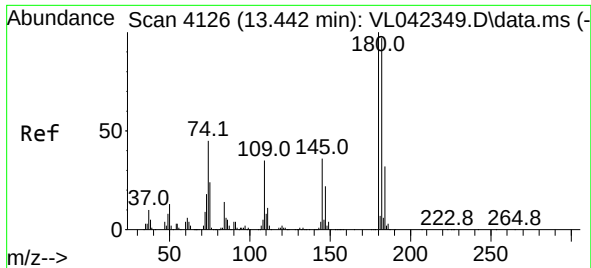
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#80
Naphthalene,2-methyl-
Concen: 8.331 ppbv
RT: 14.462 min Scan# 4441
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:142 Resp: 369891
Ion Ratio Lower Upper
142 100
141 85.0 66.8 100.2
115 42.8 33.4 50.2





#81

1,2,4-Trichlorobenzene

Concen: 9.417 ppbv

RT: 13.445 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042358.D

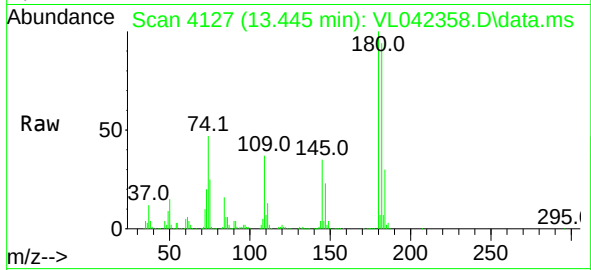
Acq: 17 Apr 2025 15:39

Instrument :

MSVOA_L

ClientSampleId :

VL0417ABS01



Tgt Ion:180 Resp: 31500

Ion Ratio Lower Upper

180 100

182 94.8 76.8 115.2

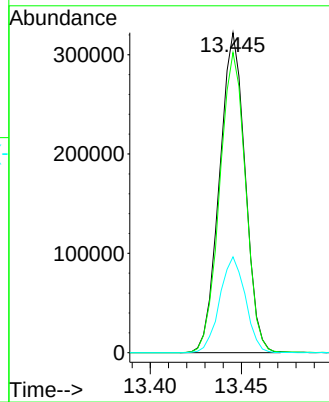
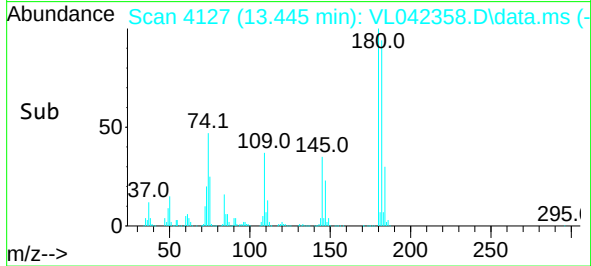
184 30.1 24.6 36.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042362.D
 Acq On : 17 Apr 2025 17:51
 Operator : SY/MD
 Sample : Q1668-01DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B1-4-3252025DUP

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

Quant Time: Apr 18 02:39:37 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Fri Apr 18 02:14:00 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	122226	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	344143	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.881	117	303859	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	251359	10.067	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.700%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	9771	0.452	ppbv	92
3) Chlorodifluoromethane	1.476	51	5731m	0.279	ppbv	
4) Chloromethane	1.534	50	4015	0.470	ppbv	99
9) Propene	1.486	41	5149	0.550	ppbv	92
10) Heptane	4.981	43	50613	1.924	ppbv	99
11) Trichlorofluoromethane	1.877	101	4655	0.227	ppbv	97
13) Ethanol	1.722	45	362837	243.762	ppbv	75
15) Acetone	1.835	43	104810	5.238	ppbv	94
19) Isopropyl Alcohol	1.887	45	25172	2.265	ppbv #	6
20) Methylene Chloride	2.062	84	21791	2.781	ppbv	98
26) Hexane	2.826	57	56908	2.850	ppbv #	34
27) Carbon Disulfide	2.149	76	12830	0.600	ppbv #	1
30) Cyclohexane	3.861	84	54578	3.382	ppbv	100
34) 2-Butanone	2.560	43	18869	0.693	ppbv	96
35) Carbon Tetrachloride	3.764	117	2628m	0.084	ppbv	
36) Benzene	3.654	78	19730	0.532	ppbv #	91
44) 2,2,4-Trimethylpentane	4.645	57	11077m	0.173	ppbv	
50) 4-Methyl-2-Pentanone	5.755	43	876965	19.389	ppbv	99
52) Tetrachloroethene	8.224	164	574m	0.040	ppbv	
53) Toluene	6.936	91	69352	1.557	ppbv	99
58) Ethyl Benzene	9.354	91	57094	0.948	ppbv	99
59) m/p-Xylene	9.532	91	448533	9.248	ppbv	100
60) o-Xylene	9.966	91	96845	1.983	ppbv	100
61) Styrene	9.872	104	37632	1.614	ppbv	98
62) Isopropylbenzene	10.539	105	10762	0.150	ppbv	97
64) n-propylbenzene	10.989	120	9965	0.553	ppbv	95
69) p-Isopropyltoluene	11.927	119	12725	0.160	ppbv	93
70) n-Butylbenzene	12.283	91	29311	0.353	ppbv #	44
72) 4-Ethyltoluene	11.124	105	64934	1.088	ppbv #	56
73) 1,3,5-Trimethylbenzene	11.205	105	70431	1.336	ppbv	97
74) 1,2,4-Trimethylbenzene	11.539	105	242011	3.931	ppbv #	61
79) Naphthalene	13.513	128	46070	0.626	ppbv #	96
80) Naphthalene,2-methyl-	14.458	142	10505m	0.250	ppbv	

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

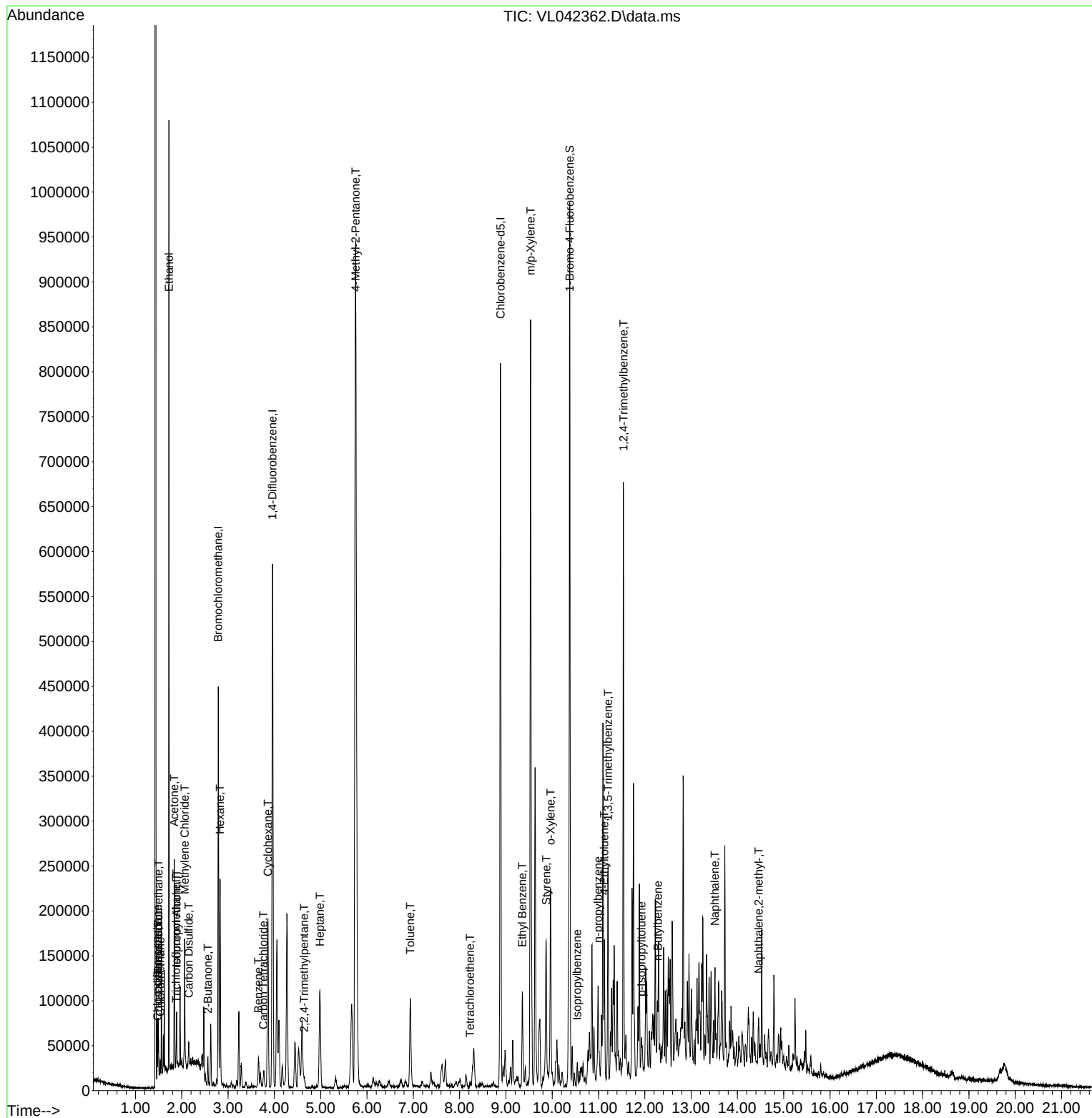
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042362.D
Acq On : 17 Apr 2025 17:51
Operator : SY/MD
Sample : Q1668-01DUP
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

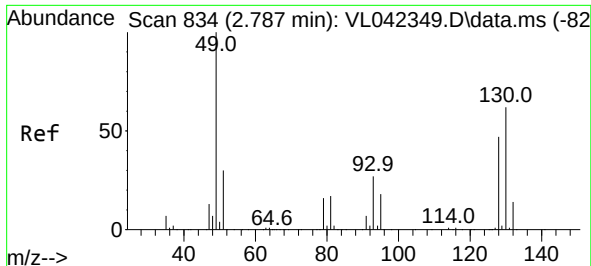
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DUP

Quant Time: Apr 18 02:39:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

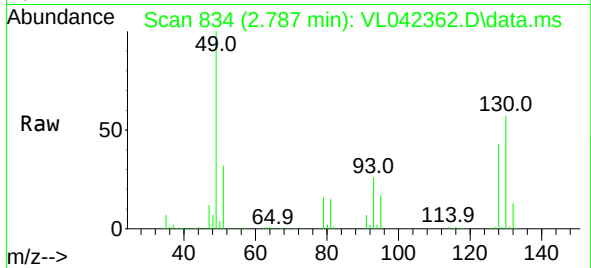
Reviewed By : Semsettin Yesilyurt 04/18/2025
Supervised By : Mahesh Dadoda 04/18/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 834
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

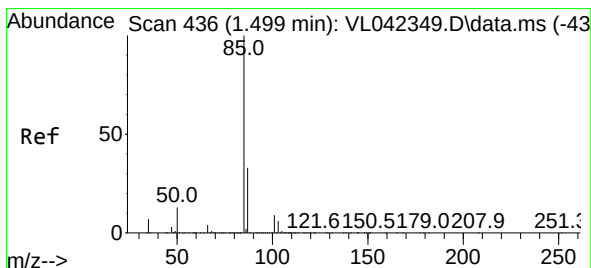
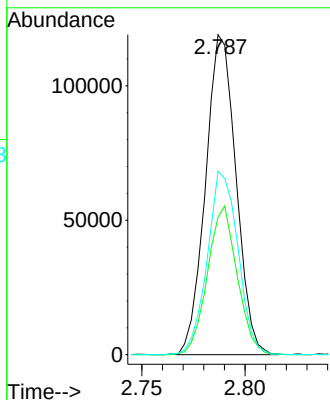
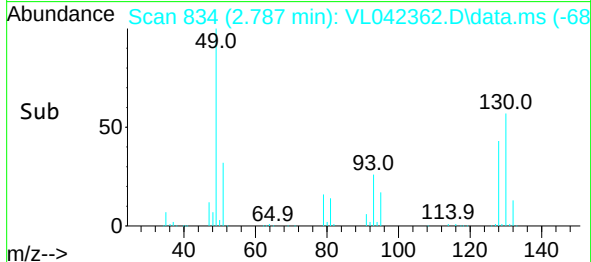
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DUP



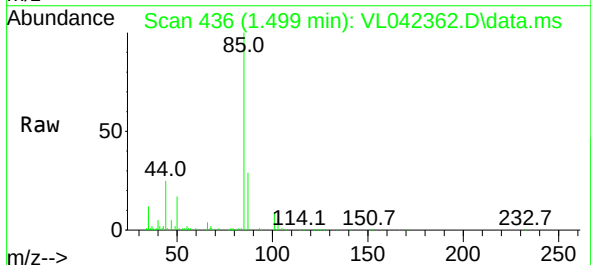
Tgt Ion: 49 Resp: 122220
Ion Ratio Lower Upper
49 100
128 45.2 22.8 68.4
130 57.7 29.3 88.0

Manual Integrations
APPROVED

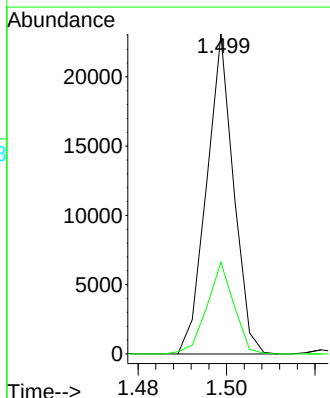
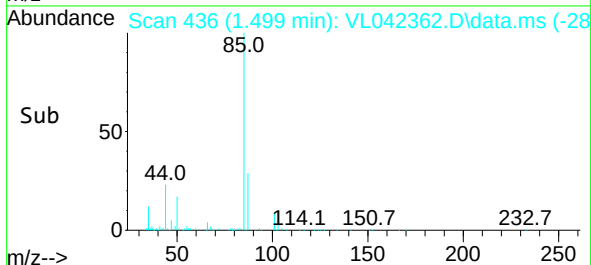
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

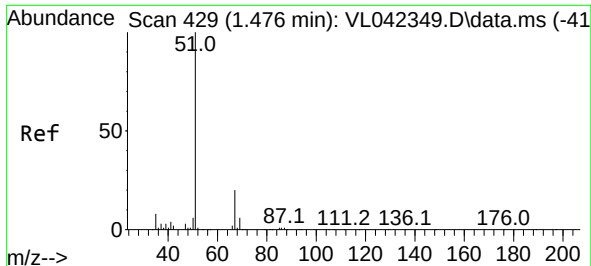


#2
Dichlorodifluoromethane
Concen: 0.452 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51



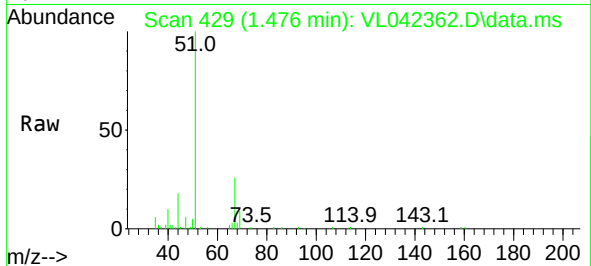
Tgt Ion: 85 Resp: 9771
Ion Ratio Lower Upper
85 100
87 28.7 26.6 39.8





#3
Chlorodifluoromethane
Concen: 0.279 ppbv m
RT: 1.476 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

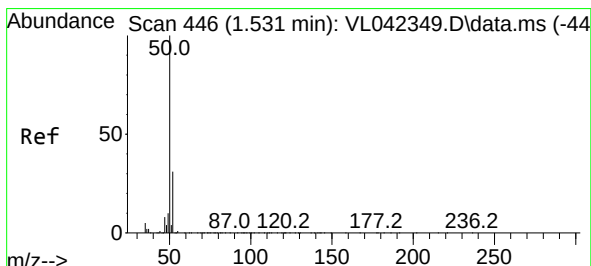
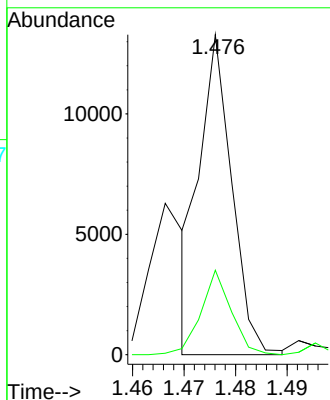
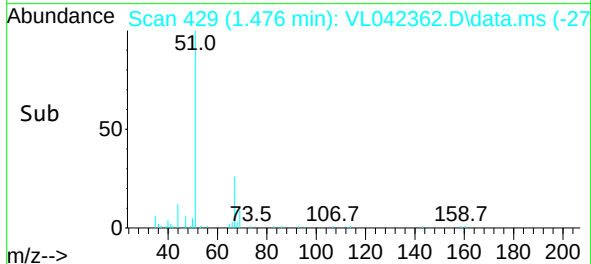
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DUP



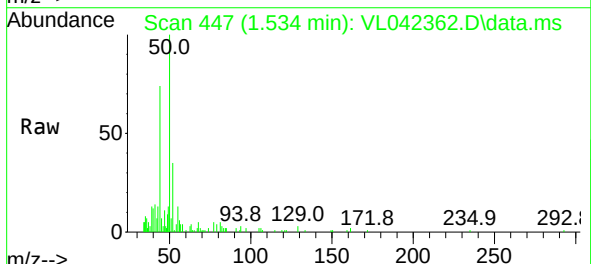
Tgt Ion: 51 Resp: 573
Ion Ratio Lower Upper
51 100
67 28.1 16.2 24.4

Manual Integrations
APPROVED

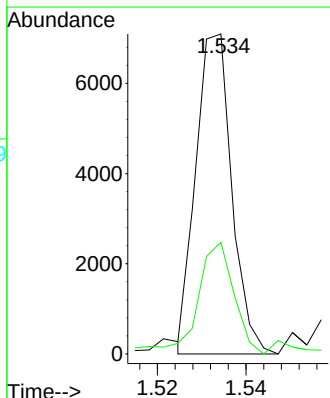
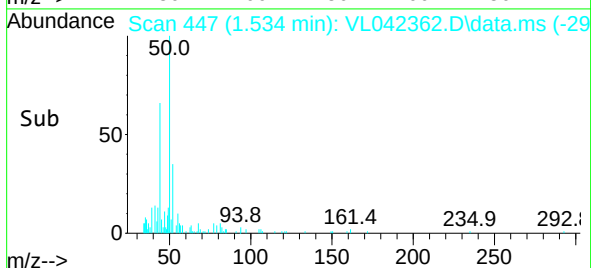
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

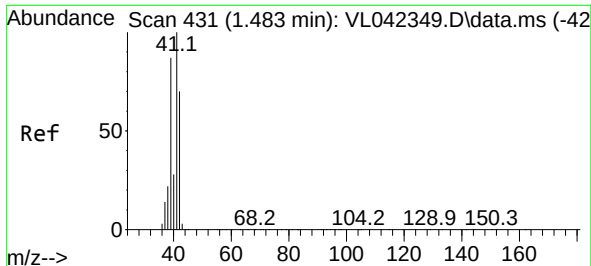


#4
Chloromethane
Concen: 0.470 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51



Tgt Ion: 50 Resp: 4015
Ion Ratio Lower Upper
50 100
52 31.6 24.7 37.1





#9

Propene

Concen: 0.550 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042362.D

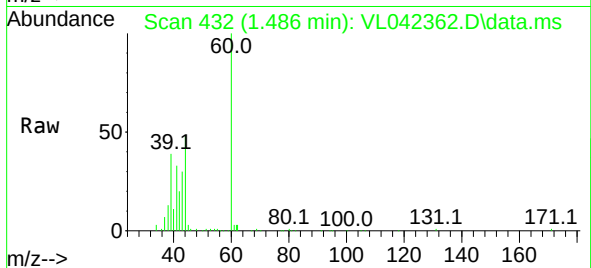
Acq: 17 Apr 2025 17:51

Instrument :

MSVOA_L

ClientSampleId :

IA-B1-4-3252025DUP



Tgt Ion: 41 Resp: 5149

Ion Ratio Lower Upper

41 100

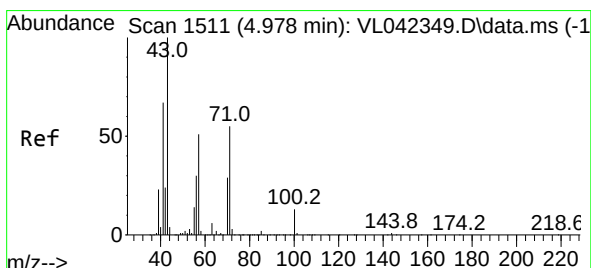
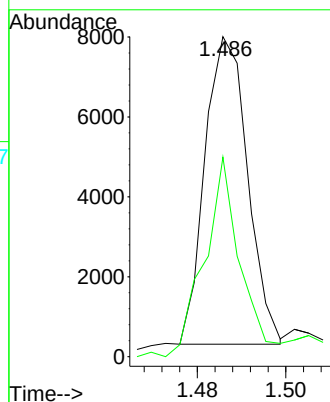
42 63.7 56.2 84.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#10

Heptane

Concen: 1.924 ppbv

RT: 4.981 min Scan# 1512

Delta R.T. 0.003 min

Lab File: VL042362.D

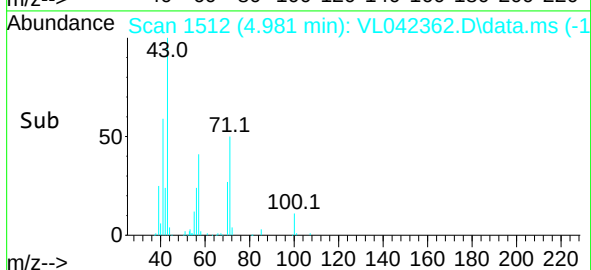
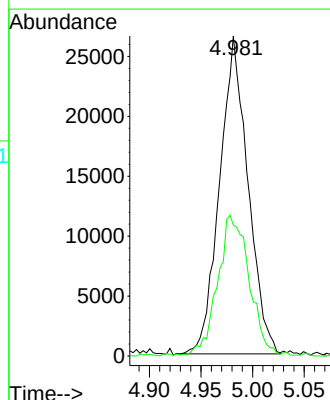
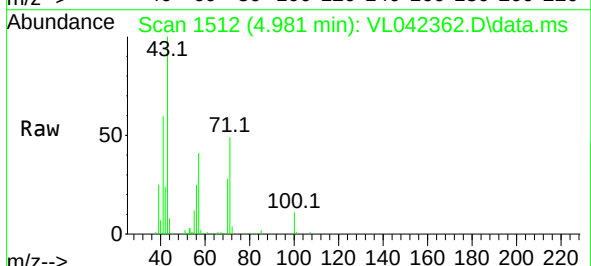
Acq: 17 Apr 2025 17:51

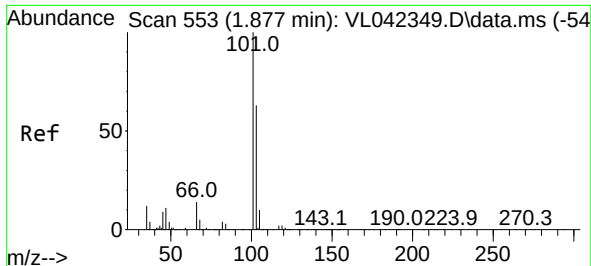
Tgt Ion: 43 Resp: 50613

Ion Ratio Lower Upper

43 100

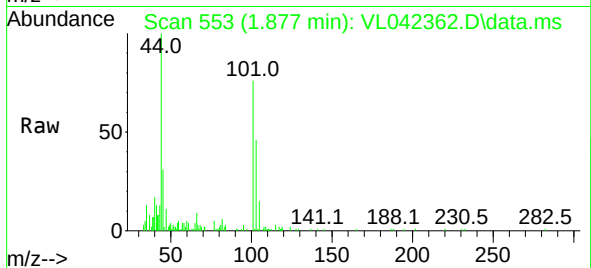
57 50.3 39.9 59.9





#11
Trichlorofluoromethane
Concen: 0.227 ppbv
RT: 1.877 min Scan# 505
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

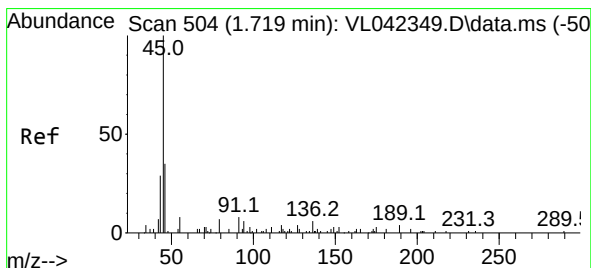
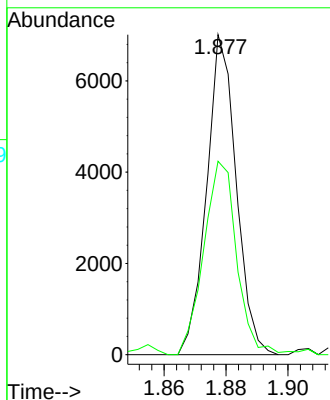
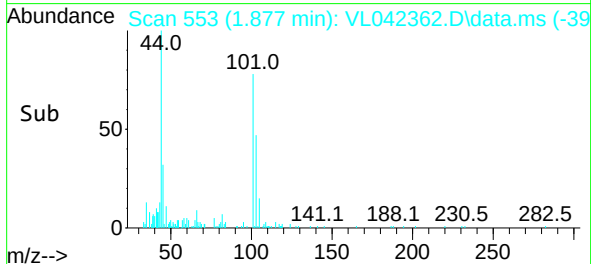
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DUP



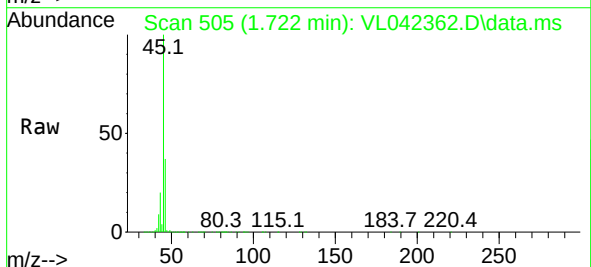
Tgt Ion:101 Resp: 4658
Ion Ratio Lower Upper
101 100
103 60.4 50.1 75.1

Manual Integrations
APPROVED

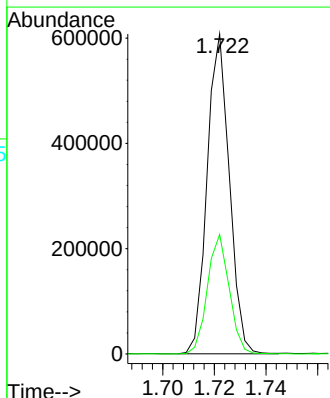
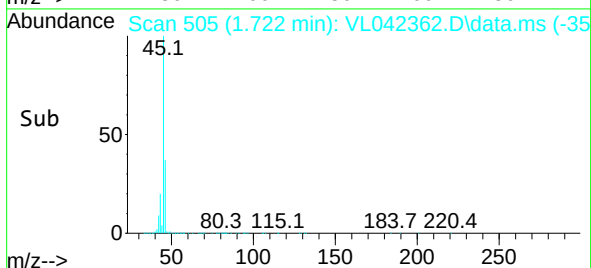
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

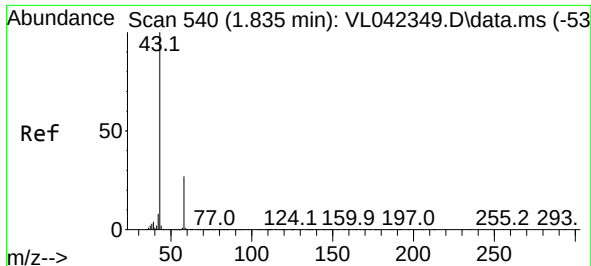


#13
Ethanol
Concen: 243.762 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51



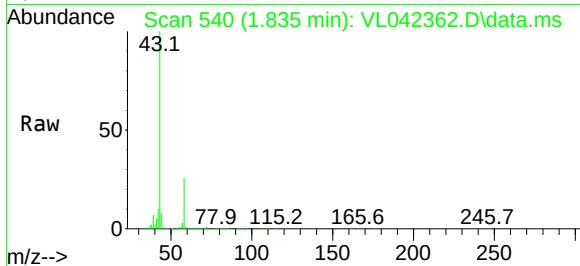
Tgt Ion: 45 Resp: 362837
Ion Ratio Lower Upper
45 100
46 36.8 21.9 87.7





#15
Acetone
Concen: 5.238 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

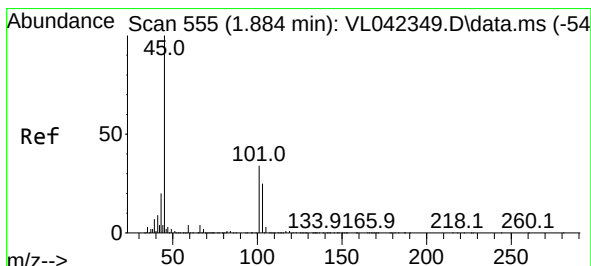
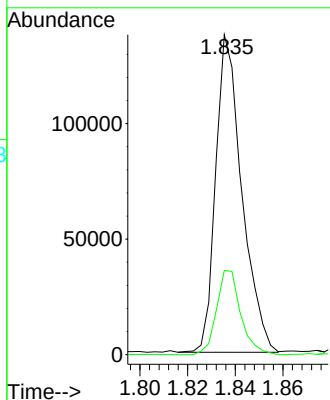
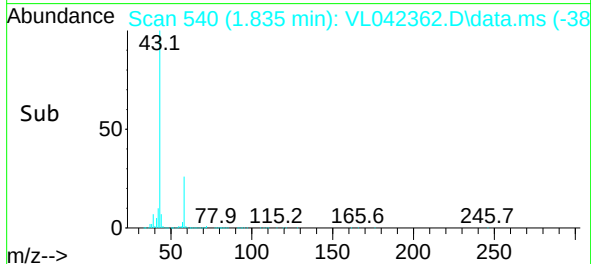
Instrument : MSVOA_L
ClientSampleId : IA-B1-4-3252025DUP



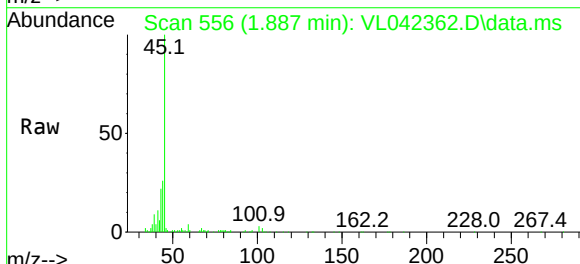
Tgt Ion: 43 Resp: 104810
Ion Ratio Lower Upper
43 100
58 24.9 22.4 33.6

Manual Integrations
APPROVED

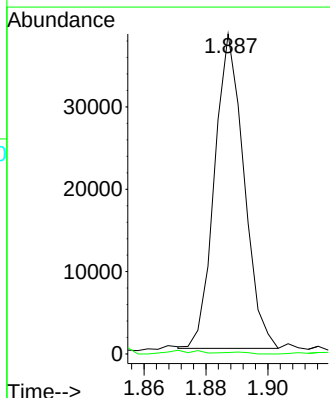
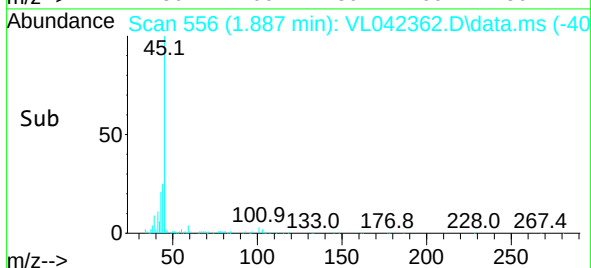
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

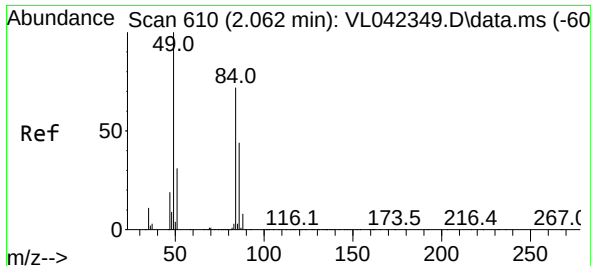


#19
Isopropyl Alcohol
Concen: 2.265 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51



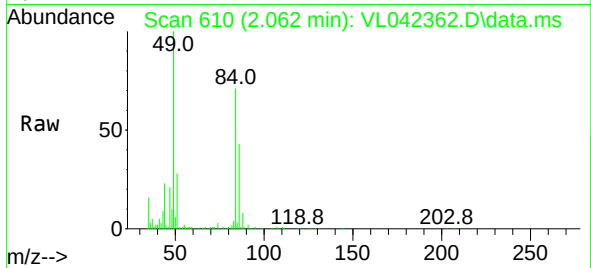
Tgt Ion: 45 Resp: 25172
Ion Ratio Lower Upper
45 100
58 103.6 34.5 51.7#





#20
Methylene Chloride
Concen: 2.781 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

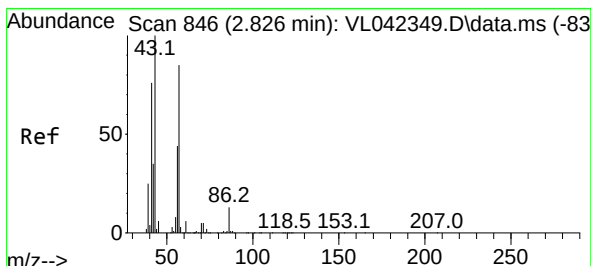
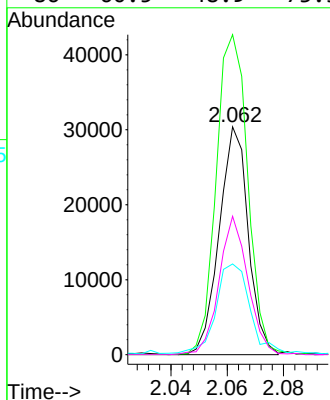
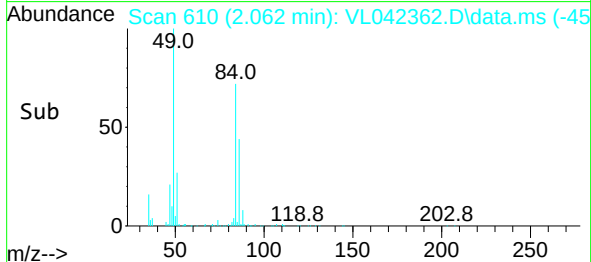
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DUP



Tgt Ion	Ratio	Lower	Upper
84	100		
49	140.1	111.6	167.4
51	39.0	35.1	52.7
86	60.5	48.9	73.3

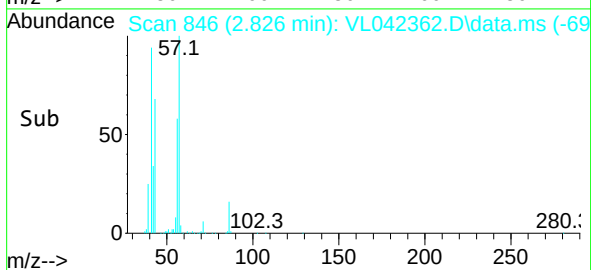
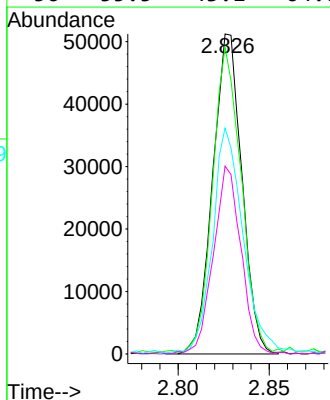
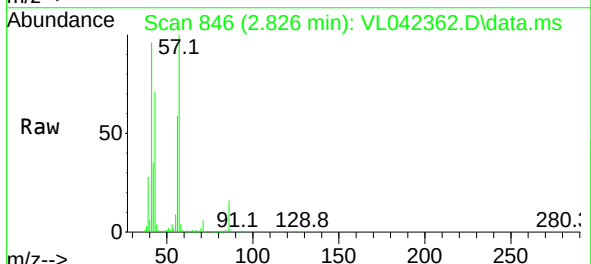
Manual Integrations
APPROVED

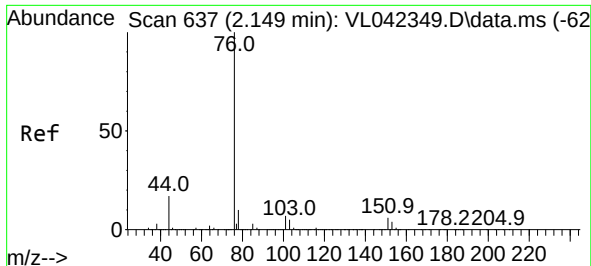
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#26
Hexane
Concen: 2.850 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

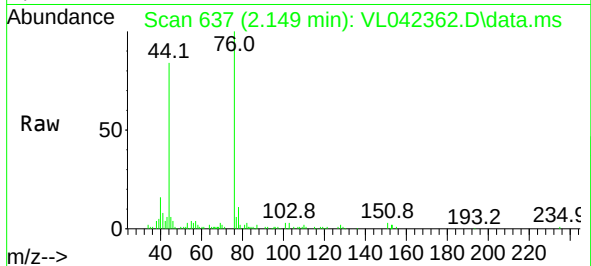
Tgt Ion	Ratio	Lower	Upper
57	100		
41	95.3	77.9	116.9
43	75.0	208.4	312.6#
56	55.5	43.1	64.7





#27
Carbon Disulfide
Concen: 0.600 ppbv
RT: 2.149 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

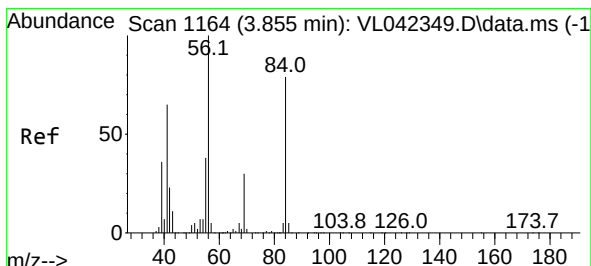
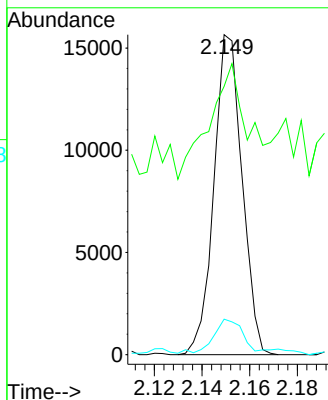
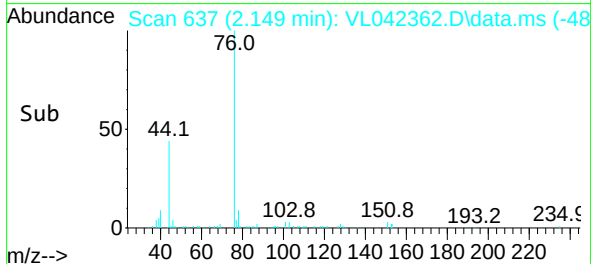
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DUP



Tgt Ion: 76 Resp: 12830
Ion Ratio Lower Upper
76 100
44 218.5 15.5 23.3
78 15.2 9.3 13.9

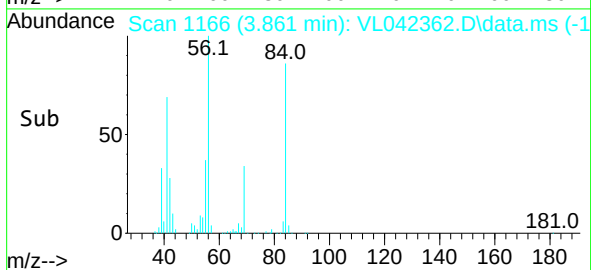
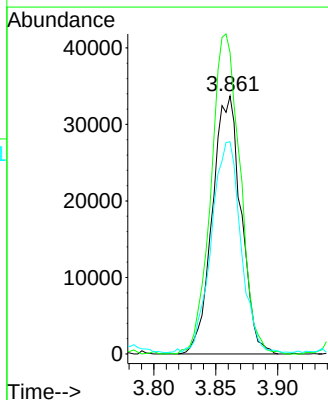
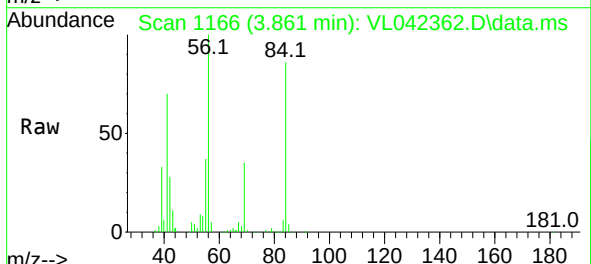
Manual Integrations
APPROVED

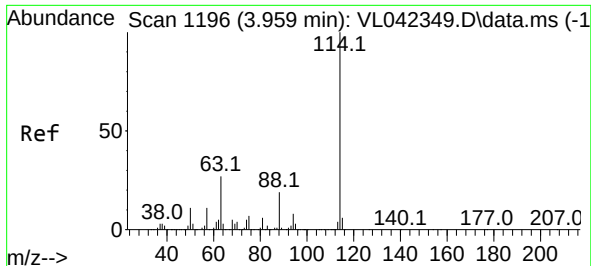
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#30
Cyclohexane
Concen: 3.382 ppbv
RT: 3.861 min Scan# 1166
Delta R.T. 0.006 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

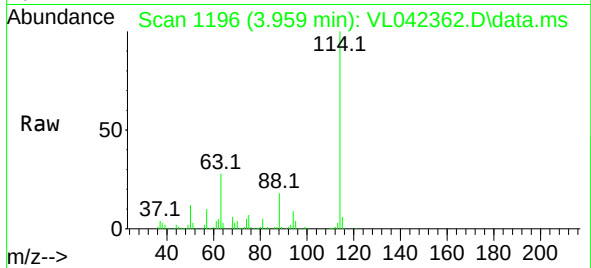
Tgt Ion: 84 Resp: 54578
Ion Ratio Lower Upper
84 100
56 125.7 101.0 151.4
41 83.8 67.4 101.0





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

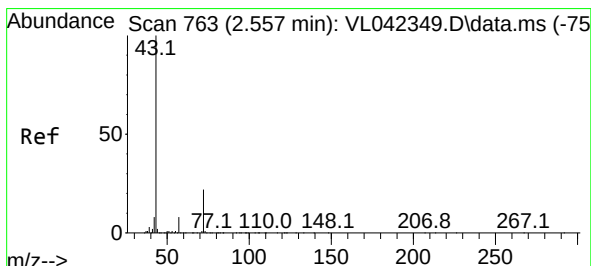
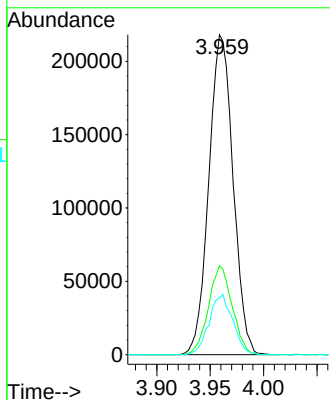
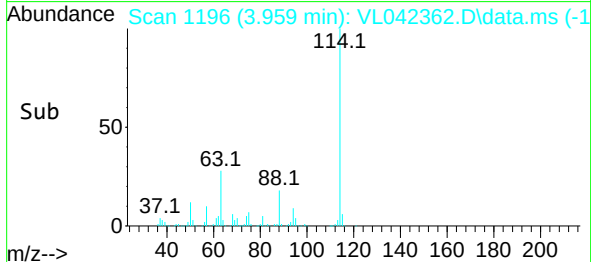
Instrument : MSVOA_L
ClientSampleId : IA-B1-4-3252025DUP



Tgt Ion:114 Resp: 34414
Ion Ratio Lower Upper
114 100
63 27.2 21.8 32.6
88 18.4 15.5 23.3

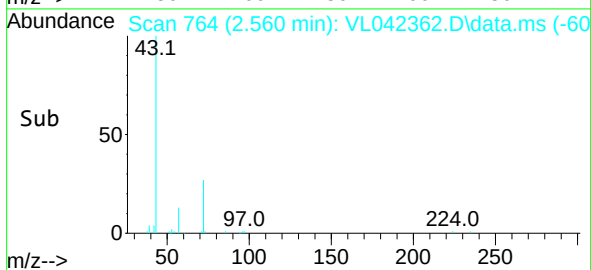
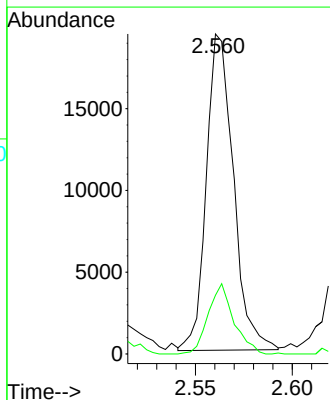
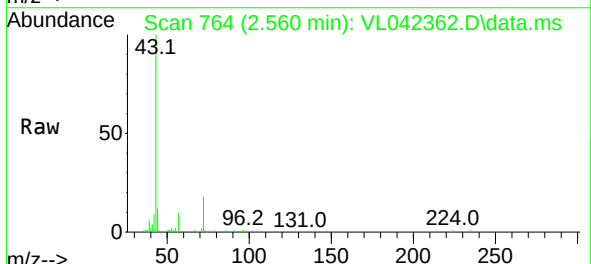
Manual Integrations
APPROVED

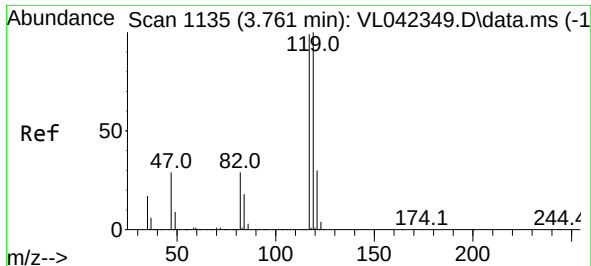
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#34
2-Butanone
Concen: 0.693 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

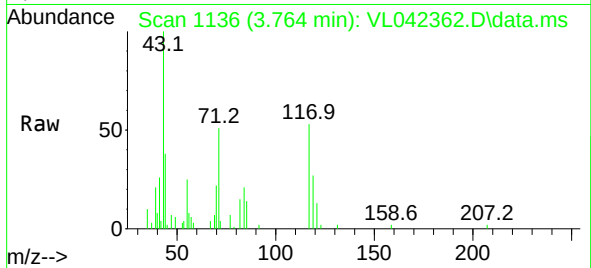
Tgt Ion: 43 Resp: 18869
Ion Ratio Lower Upper
43 100
72 21.0 18.2 27.2





#35
Carbon Tetrachloride
Concen: 0.084 ppbv m
RT: 3.764 min Scan# 1135
Delta R.T. 0.003 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

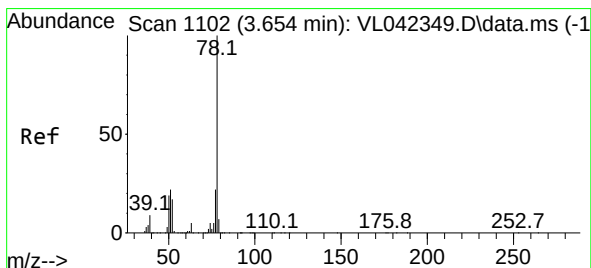
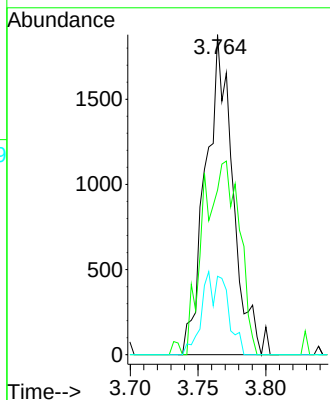
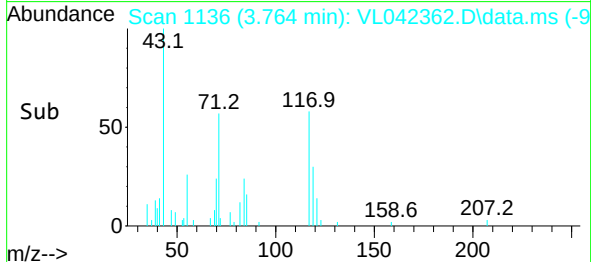
Instrument : MSVOA_L
ClientSampleId : IA-B1-4-3252025DUP



Tgt Ion: 117 Resp: 2628
Ion Ratio Lower Upper
117 100
119 51.5 80.5 120.7
121 24.5 24.2 36.2

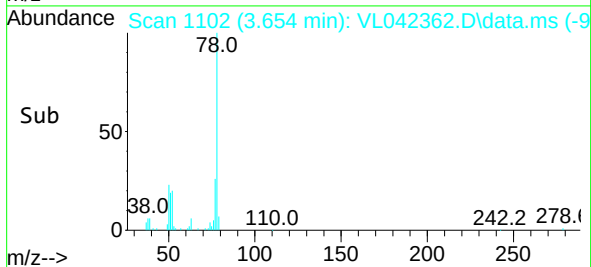
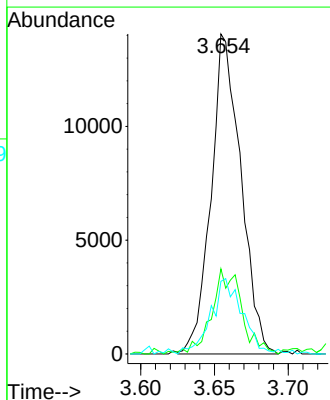
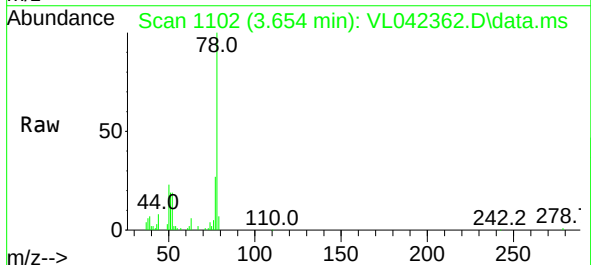
Manual Integrations
APPROVED

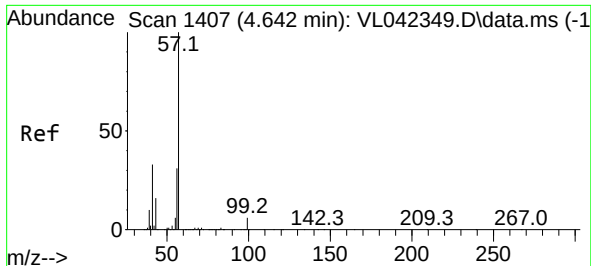
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#36
Benzene
Concen: 0.532 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion: 78 Resp: 19730
Ion Ratio Lower Upper
78 100
77 26.6 17.4 26.0#
50 22.7 15.5 23.3





#44

2,2,4-Trimethylpentane

Concen: 0.173 ppbv m

RT: 4.645 min Scan# 1407

Delta R.T. 0.003 min

Lab File: VL042362.D

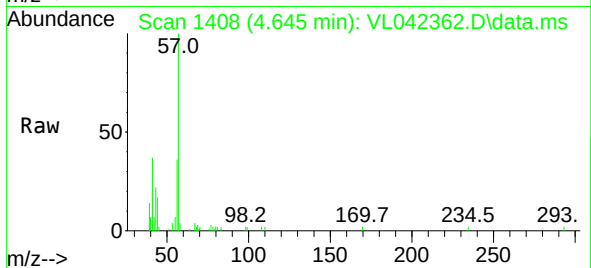
Acq: 17 Apr 2025 17:51

Instrument :

MSVOA_L

ClientSampleId :

IA-B1-4-3252025DUP



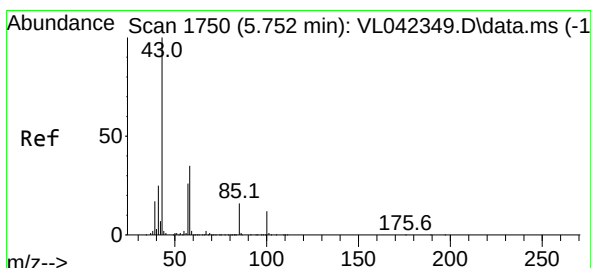
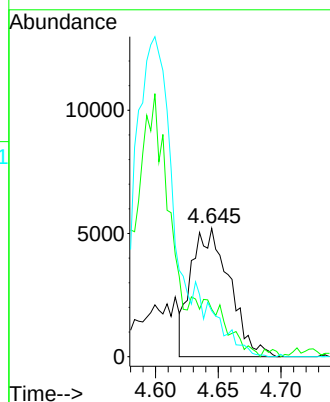
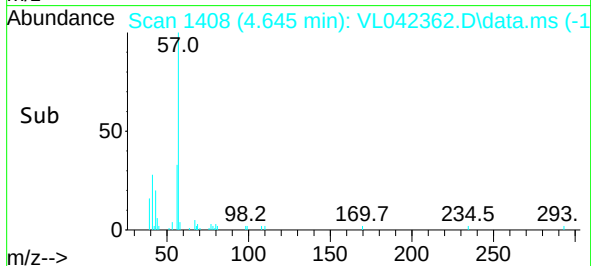
Tgt Ion: 57 Resp: 1107

Ion	Ratio	Lower	Upper
57	100		
41	0.0	27.2	40.8
56	0.0	25.7	38.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#50

4-Methyl-2-Pentanone

Concen: 19.389 ppbv

RT: 5.755 min Scan# 1751

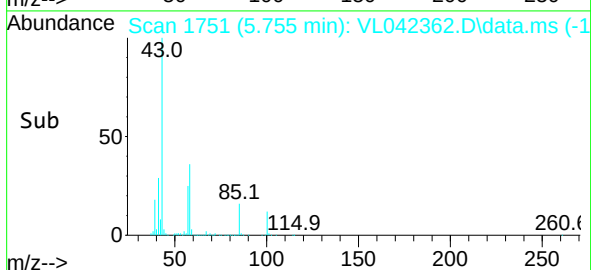
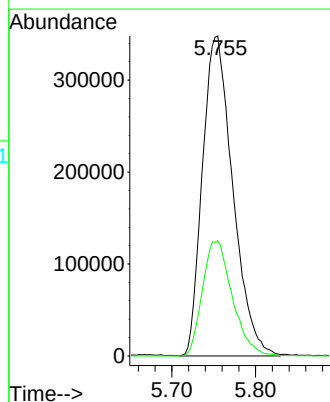
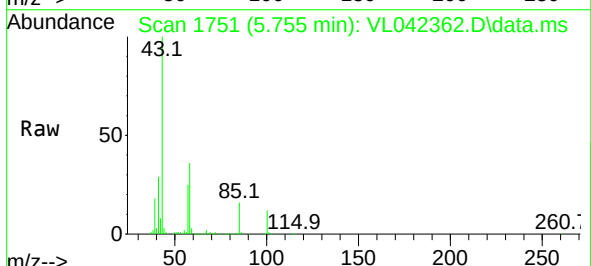
Delta R.T. 0.003 min

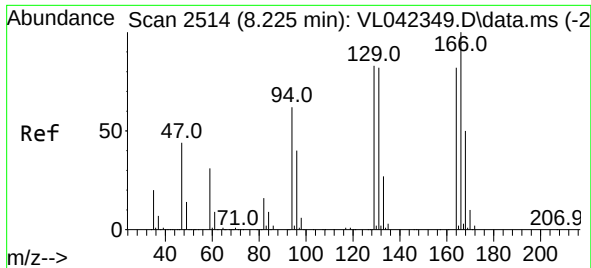
Lab File: VL042362.D

Acq: 17 Apr 2025 17:51

Tgt Ion: 43 Resp: 876965

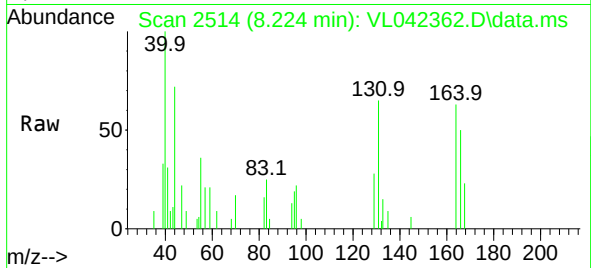
Ion	Ratio	Lower	Upper
43	100		
58	35.4	28.6	43.0





#52
Tetrachloroethene
Concen: 0.040 ppbv m
RT: 8.224 min Scan# 2115
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

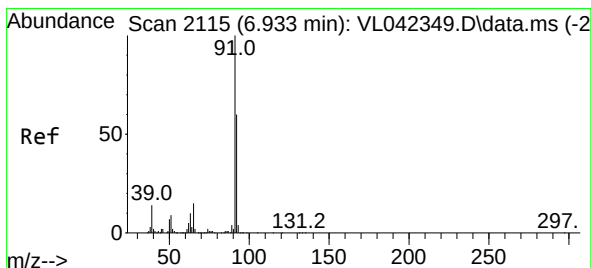
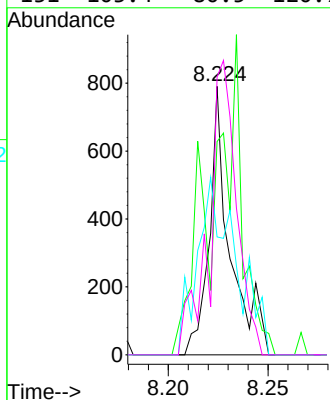
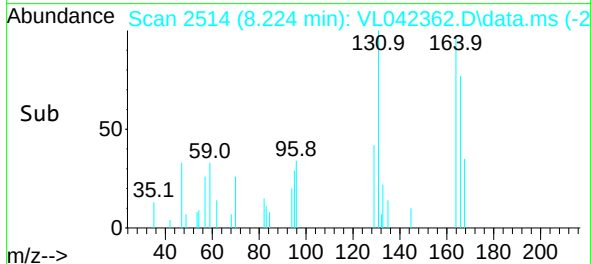
Instrument : MSVOA_L
ClientSampleId : IA-B1-4-3252025DUP



Tgt Ion:164 Resp: 574
Ion Ratio Lower Upper
164 100
166 79.4 98.2 147.2
129 43.9 81.8 122.8
131 103.4 80.5 120.7

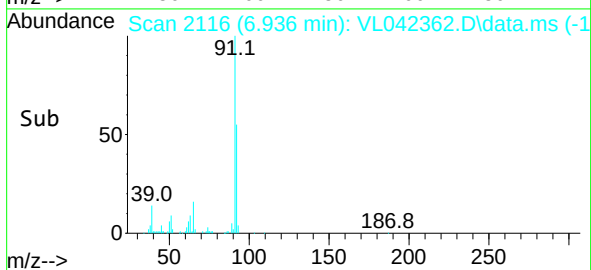
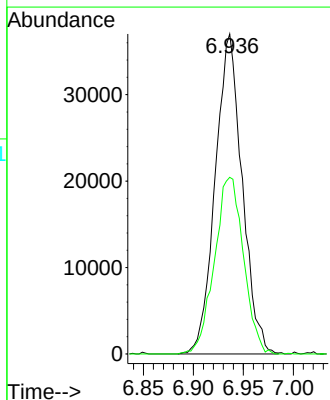
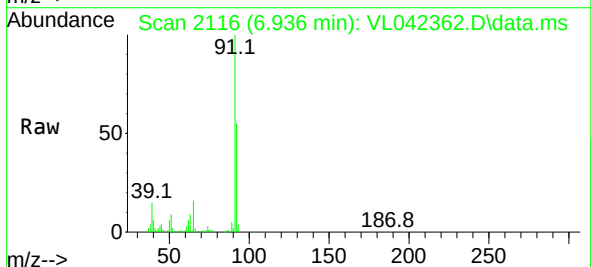
Manual Integrations
APPROVED

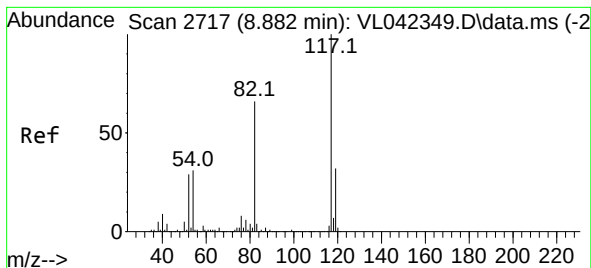
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#53
Toluene
Concen: 1.557 ppbv
RT: 6.936 min Scan# 2116
Delta R.T. 0.003 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion: 91 Resp: 69352
Ion Ratio Lower Upper
91 100
92 59.6 48.2 72.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.881 min Scan# 2717

Delta R.T. -0.000 min

Lab File: VL042362.D

Acq: 17 Apr 2025 17:51

Instrument :

MSVOA_L

ClientSampleId :

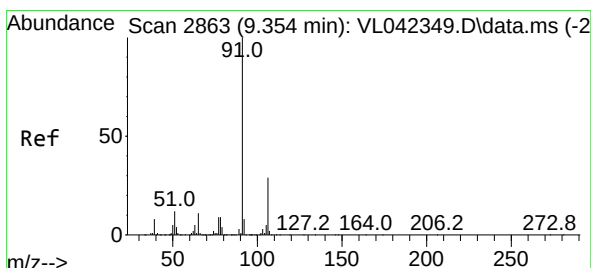
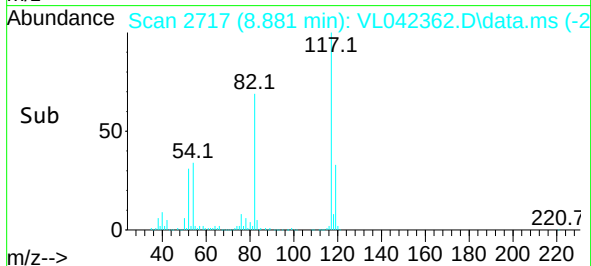
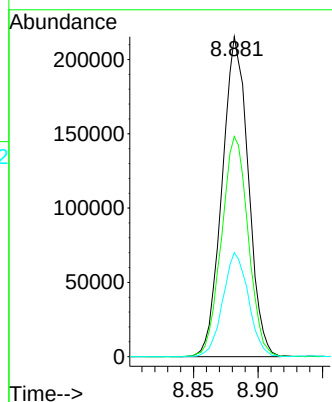
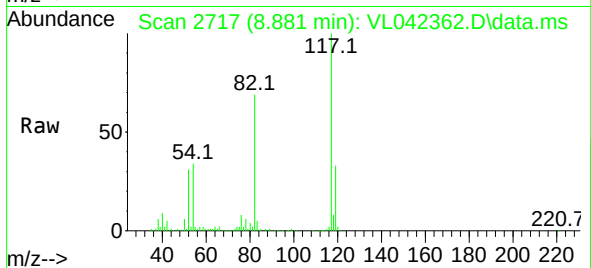
IA-B1-4-3252025DUP

Tgt Ion: 117 Resp: 303859
 Ion Ratio Lower Upper
 117 100
 82 70.0 57.8 86.6
 119 31.8 25.2 37.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#58

Ethyl Benzene

Concen: 0.948 ppbv

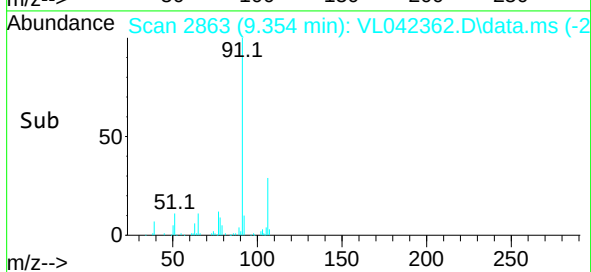
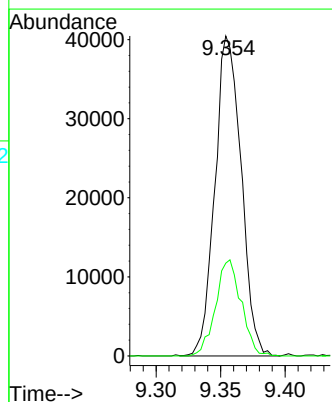
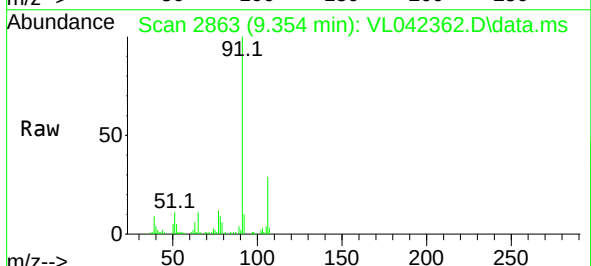
RT: 9.354 min Scan# 2863

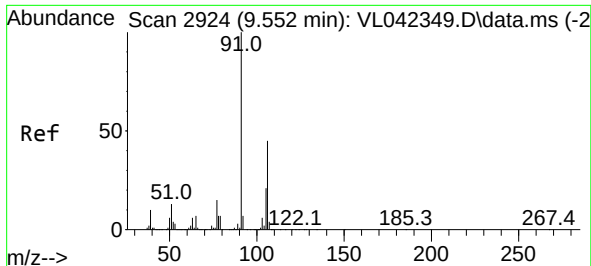
Delta R.T. -0.000 min

Lab File: VL042362.D

Acq: 17 Apr 2025 17:51

Tgt Ion: 91 Resp: 57094
 Ion Ratio Lower Upper
 91 100
 106 29.0 23.0 34.4





#59

m/p-Xylene

Concen: 9.248 ppbv

RT: 9.532 min Scan# 2918

Delta R.T. -0.019 min

Lab File: VL042362.D

Acq: 17 Apr 2025 17:51

Instrument :

MSVOA_L

ClientSampleId :

IA-B1-4-3252025DUP

Tgt Ion: 91 Resp: 44853

Ion Ratio Lower Upper

91 100

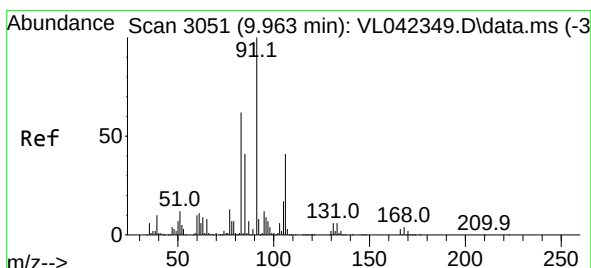
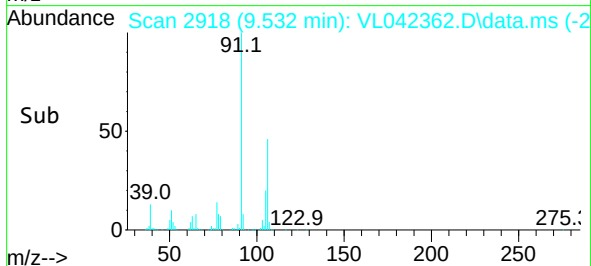
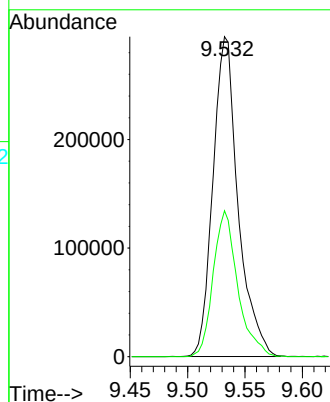
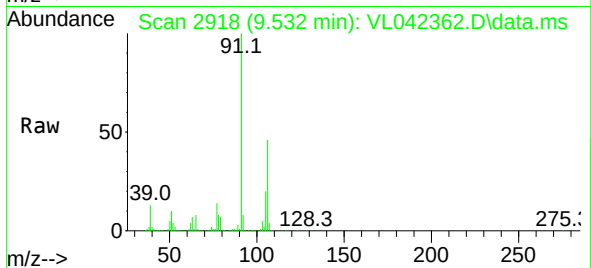
106 44.6 35.4 53.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#60

o-Xylene

Concen: 1.983 ppbv

RT: 9.966 min Scan# 3052

Delta R.T. 0.003 min

Lab File: VL042362.D

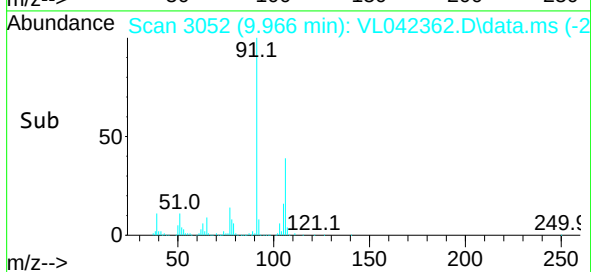
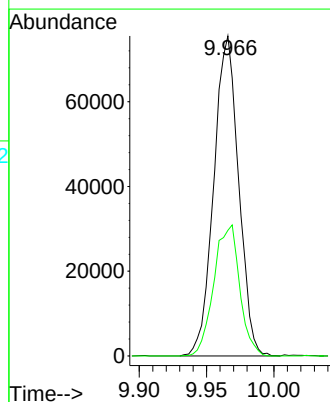
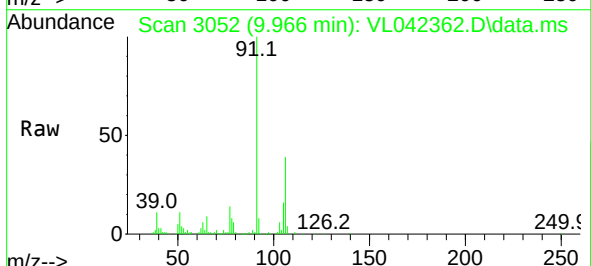
Acq: 17 Apr 2025 17:51

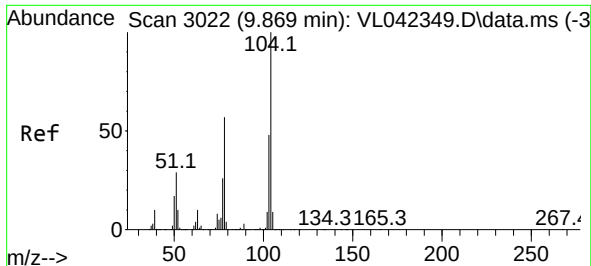
Tgt Ion: 91 Resp: 96845

Ion Ratio Lower Upper

91 100

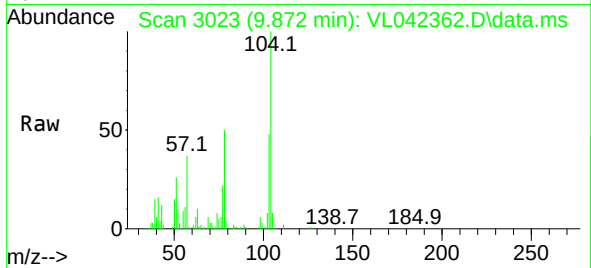
106 42.5 21.1 63.4





#61
Styrene
Concen: 1.614 ppbv
RT: 9.872 min Scan# 3022
Delta R.T. 0.003 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

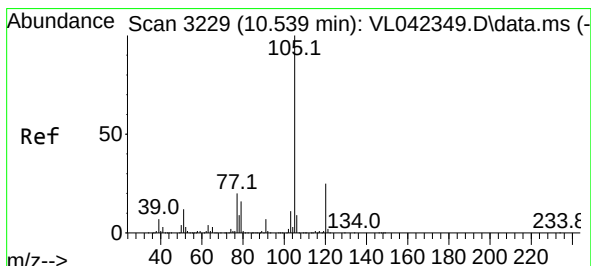
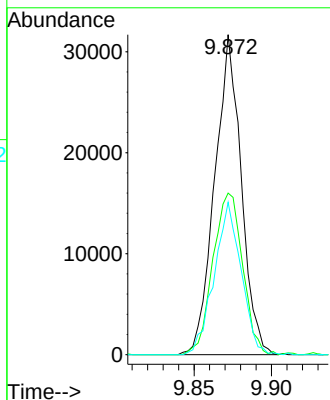
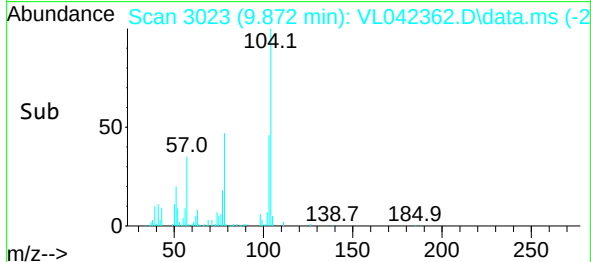
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DUP



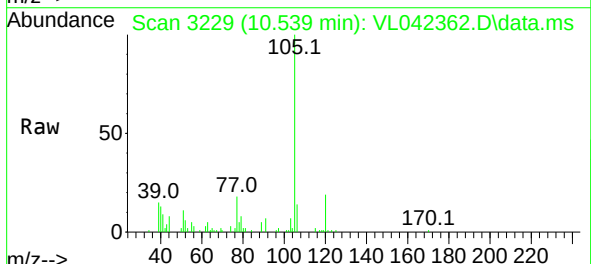
Tgt Ion:104 Resp: 37632
Ion Ratio Lower Upper
104 100
78 57.0 44.6 66.8
103 48.5 37.4 56.0

Manual Integrations
APPROVED

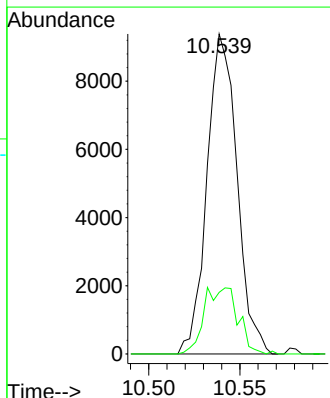
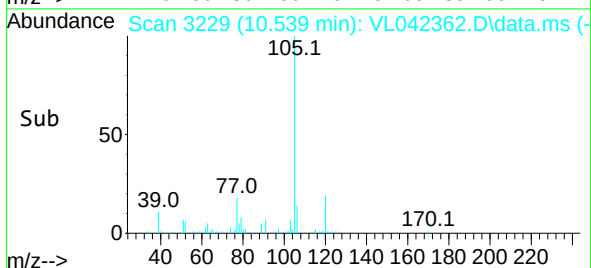
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

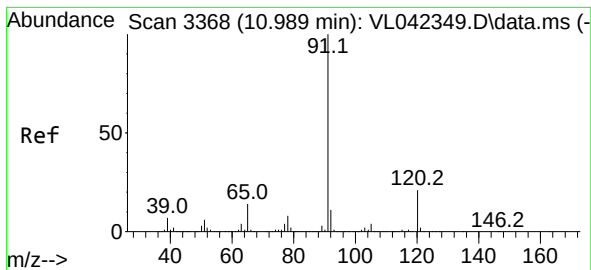


#62
Isopropylbenzene
Concen: 0.150 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51



Tgt Ion:105 Resp: 10762
Ion Ratio Lower Upper
105 100
120 23.5 19.8 29.8





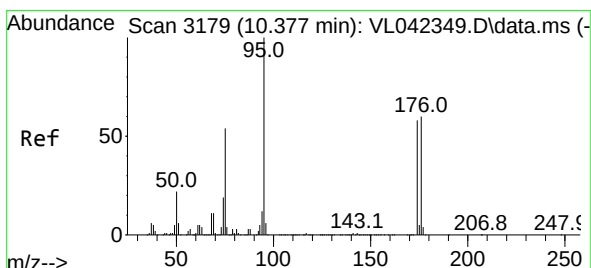
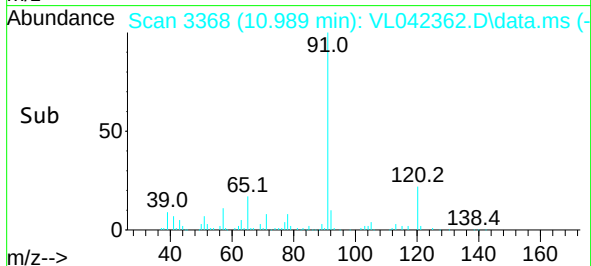
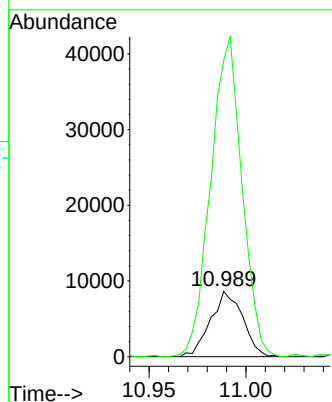
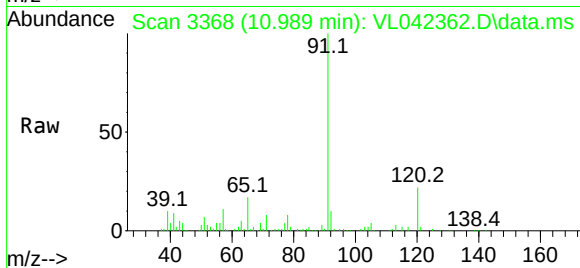
#64
n-propylbenzene
Concen: 0.553 ppbv
RT: 10.989 min Scan# 311
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DUP

Tgt Ion:120 Resp: 996
Ion Ratio Lower Upper
120 100
91 477.7 392.4 588.6

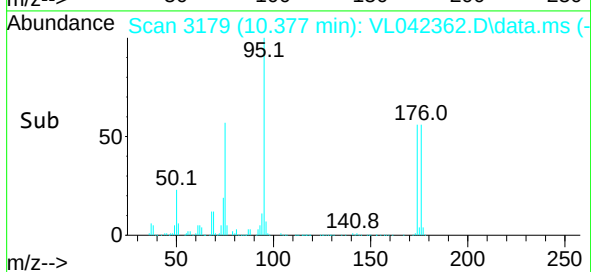
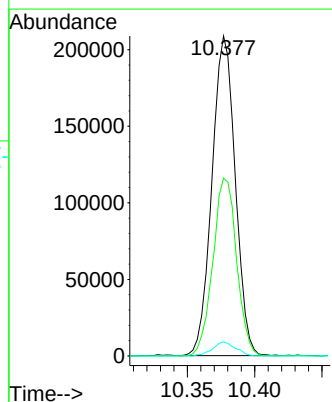
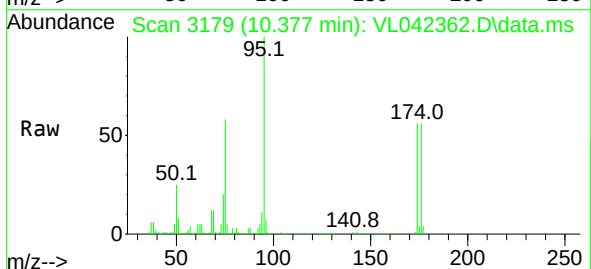
Manual Integrations
APPROVED

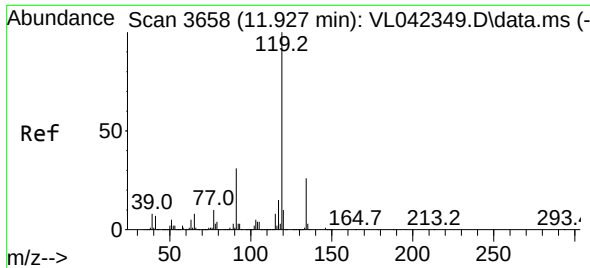
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 10.067 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

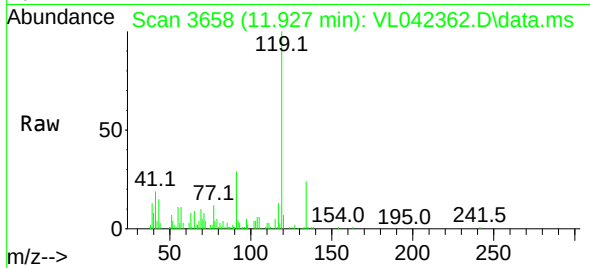
Tgt Ion: 95 Resp: 251359
Ion Ratio Lower Upper
95 100
174 56.6 48.5 72.7
175 4.3 3.7 5.5





#69
p-Isopropyltoluene
Concen: 0.160 ppbv
RT: 11.927 min Scan# 3658
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

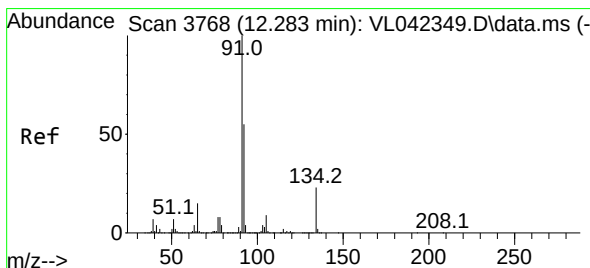
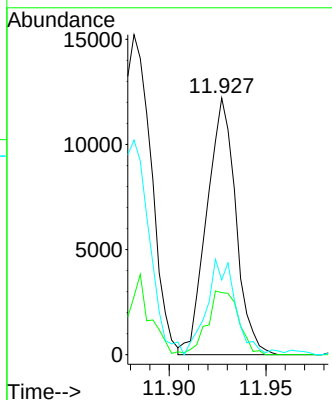
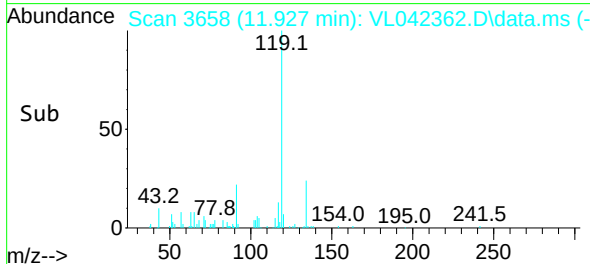
Instrument : MSVOA_L
ClientSampleId : IA-B1-4-3252025DUP



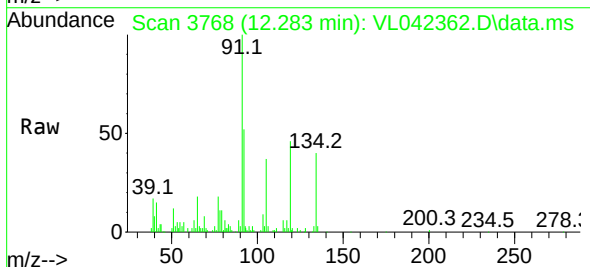
Tgt Ion: 119 Resp: 12725
Ion Ratio Lower Upper
119 100
134 26.7 20.0 30.0
91 35.9 24.4 36.6

Manual Integrations
APPROVED

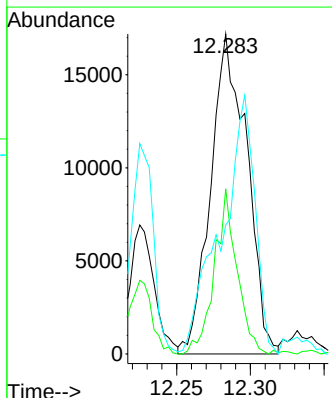
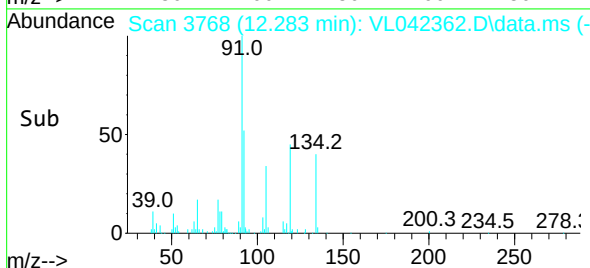
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

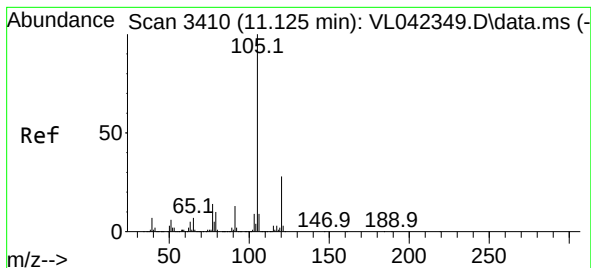


#70
n-Butylbenzene
Concen: 0.353 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51



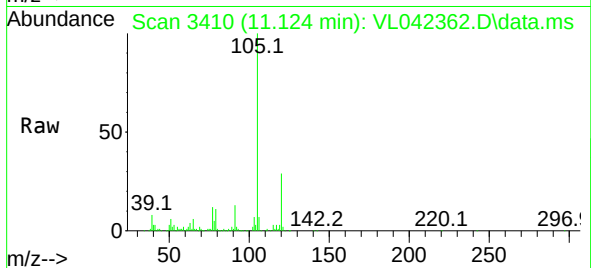
Tgt Ion: 91 Resp: 29311
Ion Ratio Lower Upper
91 100
92 32.6 44.2 66.4#
134 78.8 18.2 27.4#





#72
4-Ethyltoluene
Concen: 1.088 ppbv
RT: 11.124 min Scan# 3410
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

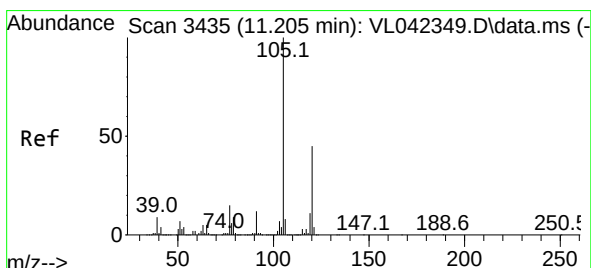
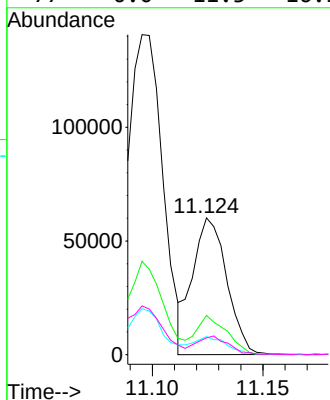
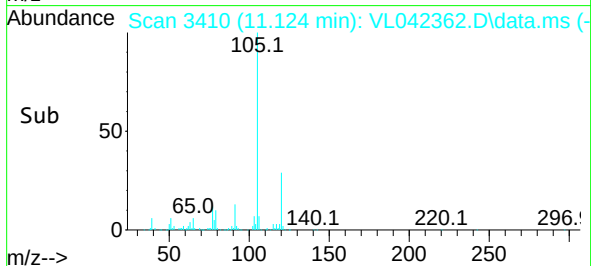
Instrument : MSVOA_L
ClientSampleId : IA-B1-4-3252025DUP



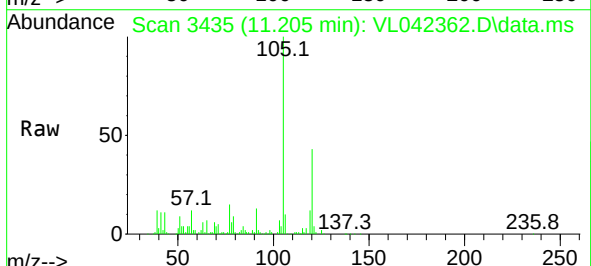
Tgt Ion:105 Resp: 64934
Ion Ratio Lower Upper
105 100
120 0.0 23.2 34.8
91 0.0 10.4 15.6
77 0.0 11.3 16.9

Manual Integrations
APPROVED

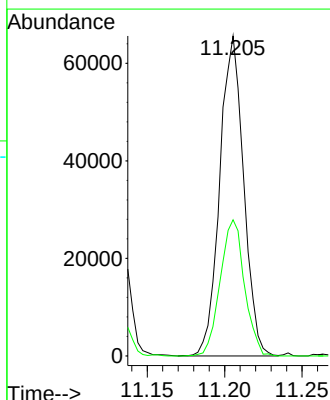
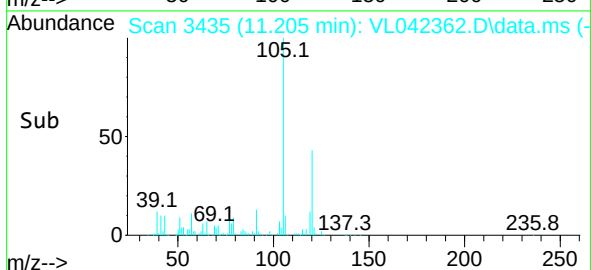
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

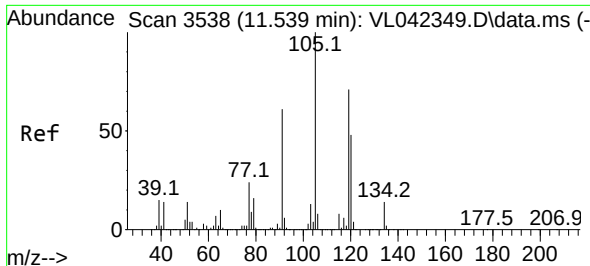


#73
1,3,5-Trimethylbenzene
Concen: 1.336 ppbv
RT: 11.205 min Scan# 3435
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51



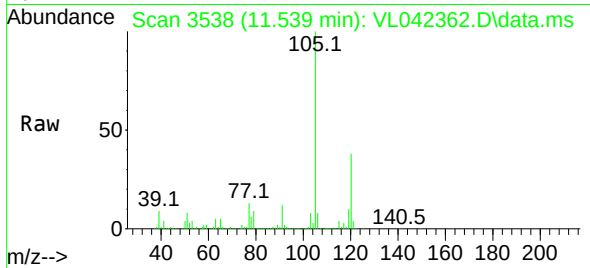
Tgt Ion:105 Resp: 70431
Ion Ratio Lower Upper
105 100
120 42.6 35.6 53.4





#74
1,2,4-Trimethylbenzene
Concen: 3.931 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

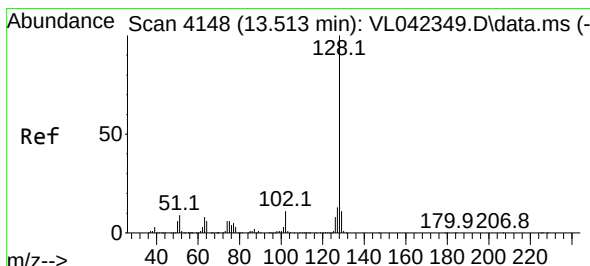
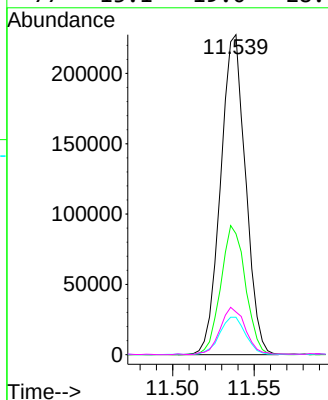
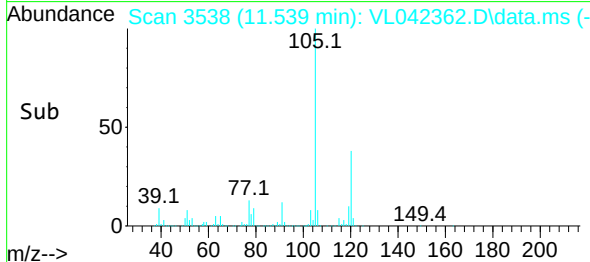
Instrument : MSVOA_L
ClientSampleId : IA-B1-4-3252025DUP



Tgt Ion:105 Resp: 24201
Ion Ratio Lower Upper
105 100
120 37.8 38.1 57.1
91 11.6 48.8 73.2
77 13.1 19.0 28.4#

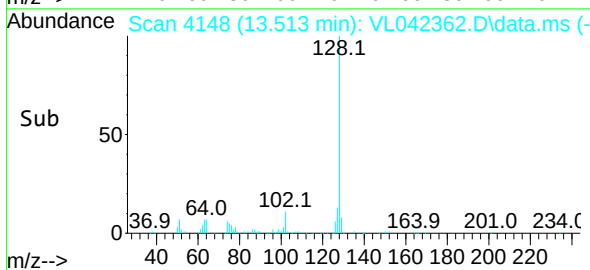
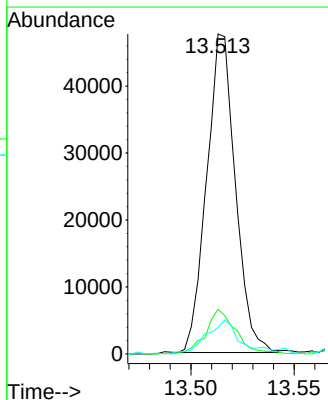
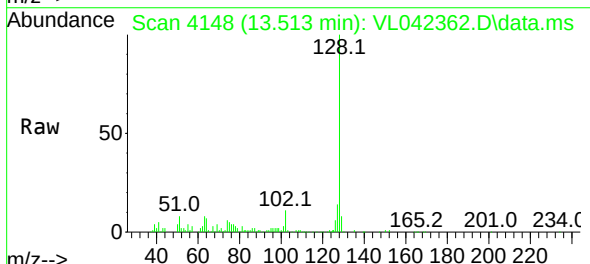
Manual Integrations
APPROVED

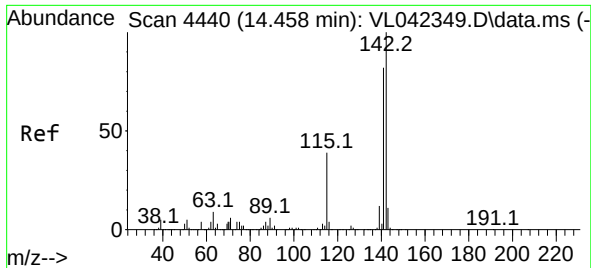
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#79
Naphthalene
Concen: 0.626 ppbv
RT: 13.513 min Scan# 4148
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

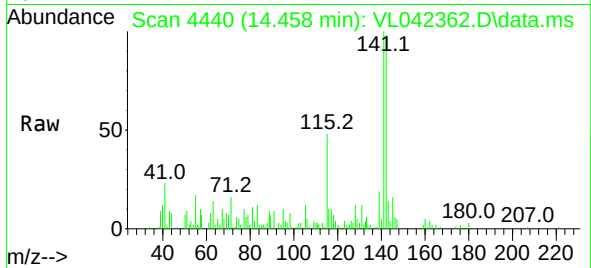
Tgt Ion:128 Resp: 46070
Ion Ratio Lower Upper
128 100
127 13.7 10.6 15.8
129 7.6 8.6 12.8#





#80
Naphthalene, 2-methyl-
Concen: 0.250 ppbv m
RT: 14.458 min Scan# 44
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

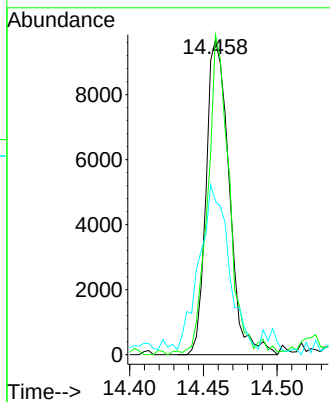
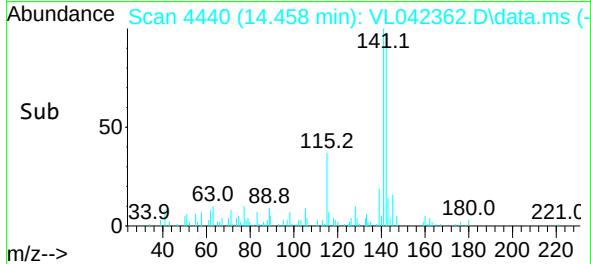
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DUP



Tgt Ion:142 Resp: 1050
Ion Ratio Lower Upper
142 100
141 66.4 66.8 100.2
115 32.9 33.4 50.2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



Manual Integration Report

Sequence:	VL041725	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICCC010	VL042349.D	m/p-Xylene	SAM	4/18/2025 4:19:07 PM	MMDadoda	4/18/2025 10:45:20 PM	Peak Integrated by Software
VSTDICCC002	VL042350.D	1,4-Dioxane	SAM	4/18/2025 4:19:12 PM	MMDadoda	4/18/2025 10:45:17 PM	Peak Integrated by Software
VSTDICCC002	VL042350.D	cis-1,3-Dichloropropene	SAM	4/18/2025 4:19:12 PM	MMDadoda	4/18/2025 10:45:17 PM	Peak Integrated by Software
VSTDICCC002	VL042350.D	Ethanol	SAM	4/18/2025 4:19:12 PM	MMDadoda	4/18/2025 10:45:17 PM	Peak Integrated by Software
VSTDICCC002	VL042350.D	Heptane	SAM	4/18/2025 4:19:12 PM	MMDadoda	4/18/2025 10:45:17 PM	Peak Integrated by Software
VSTDICCC002	VL042350.D	m/p-Xylene	SAM	4/18/2025 4:19:12 PM	MMDadoda	4/18/2025 10:45:17 PM	Peak Integrated by Software
VSTDICCC002	VL042350.D	Trichloroethene	SAM	4/18/2025 4:19:12 PM	MMDadoda	4/18/2025 10:45:17 PM	Peak Integrated by Software
VSTDICCC001	VL042351.D	1,1,2-Trichloroethane	SAM	4/18/2025 4:19:17 PM	MMDadoda	4/18/2025 10:45:15 PM	Peak Integrated by Software
VSTDICCC001	VL042351.D	1,3-Butadiene	SAM	4/18/2025 4:19:17 PM	MMDadoda	4/18/2025 10:45:15 PM	Peak Integrated by Software
VSTDICCC001	VL042351.D	1,4-Dioxane	SAM	4/18/2025 4:19:17 PM	MMDadoda	4/18/2025 10:45:15 PM	Peak Integrated by Software
VSTDICCC001	VL042351.D	2,2,4-Trimethylpentane	SAM	4/18/2025 4:19:17 PM	MMDadoda	4/18/2025 10:45:15 PM	Peak Integrated by Software
VSTDICCC001	VL042351.D	cis-1,3-Dichloropropene	SAM	4/18/2025 4:19:17 PM	MMDadoda	4/18/2025 10:45:15 PM	Peak Integrated by Software
VSTDICCC001	VL042351.D	Cyclohexane	SAM	4/18/2025 4:19:17 PM	MMDadoda	4/18/2025 10:45:15 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL041725	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDIC001	VL042351.D	Ethanol	SAM	4/18/2025 4:19:17 PM	MMDadoda	4/18/2025 10:45:15 PM	Peak Integrated by Software
VSTDIC001	VL042351.D	Heptane	SAM	4/18/2025 4:19:17 PM	MMDadoda	4/18/2025 10:45:15 PM	Peak Integrated by Software
VSTDIC001	VL042351.D	m/p-Xylene	SAM	4/18/2025 4:19:17 PM	MMDadoda	4/18/2025 10:45:15 PM	Peak Integrated by Software
VSTDIC001	VL042351.D	Methyl Methacrylate	SAM	4/18/2025 4:19:17 PM	MMDadoda	4/18/2025 10:45:15 PM	Peak Integrated by Software
VSTDIC001	VL042351.D	t-1,3-Dichloropropene	SAM	4/18/2025 4:19:17 PM	MMDadoda	4/18/2025 10:45:15 PM	Peak Integrated by Software
VSTDIC0.5	VL042352.D	1,1,2-Trichloroethane	SAM	4/18/2025 4:20:33 PM	MMDadoda	4/18/2025 10:45:07 PM	Peak Integrated by Software
VSTDIC0.5	VL042352.D	1,2-Dichloropropane	SAM	4/18/2025 4:20:33 PM	MMDadoda	4/18/2025 10:45:07 PM	Peak Integrated by Software
VSTDIC0.5	VL042352.D	1,4-Dioxane	SAM	4/18/2025 4:20:33 PM	MMDadoda	4/18/2025 10:45:07 PM	Peak Integrated by Software
VSTDIC0.5	VL042352.D	4-Methyl-2-Pentanone	SAM	4/18/2025 4:20:33 PM	MMDadoda	4/18/2025 10:45:07 PM	Peak Integrated by Software
VSTDIC0.5	VL042352.D	Chlorobenzene	SAM	4/18/2025 4:20:33 PM	MMDadoda	4/18/2025 10:45:07 PM	Peak Integrated by Software
VSTDIC0.5	VL042352.D	cis-1,3-Dichloropropene	SAM	4/18/2025 4:20:33 PM	MMDadoda	4/18/2025 10:45:07 PM	Peak Integrated by Software
VSTDIC0.5	VL042352.D	Ethanol	SAM	4/18/2025 4:20:33 PM	MMDadoda	4/18/2025 10:45:07 PM	Peak Integrated by Software
VSTDIC0.5	VL042352.D	Heptane	SAM	4/18/2025 4:20:33 PM	MMDadoda	4/18/2025 10:45:07 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL041725	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.5	VL042352.D	m/p-Xylene	SAM	4/18/2025 4:20:33 PM	MMDadoda	4/18/2025 10:45:07 PM	Peak Integrated by Software
VSTDICC0.5	VL042352.D	Methyl Methacrylate	SAM	4/18/2025 4:20:33 PM	MMDadoda	4/18/2025 10:45:07 PM	Peak Integrated by Software
VSTDICC0.5	VL042352.D	t-1,3-Dichloropropene	SAM	4/18/2025 4:20:33 PM	MMDadoda	4/18/2025 10:45:07 PM	Peak Integrated by Software
VSTDICC0.5	VL042352.D	Tetrahydrofuran	SAM	4/18/2025 4:20:33 PM	MMDadoda	4/18/2025 10:45:07 PM	Peak Integrated by Software
VSTDICC0.1	VL042353.D	1,1,1-Trichloroethane	SAM	4/18/2025 4:20:37 PM	MMDadoda	4/18/2025 10:45:04 PM	Peak Integrated by Software
VSTDICC0.1	VL042353.D	1,1,2,2-Tetrachloroethane	SAM	4/18/2025 4:20:37 PM	MMDadoda	4/18/2025 10:45:04 PM	Peak Integrated by Software
VSTDICC0.1	VL042353.D	1,2-Dibromoethane	SAM	4/18/2025 4:20:37 PM	MMDadoda	4/18/2025 10:45:04 PM	Peak Integrated by Software
VSTDICC0.1	VL042353.D	Tetrachloroethene	SAM	4/18/2025 4:20:37 PM	MMDadoda	4/18/2025 10:45:04 PM	Peak Integrated by Software
VSTDICC0.1	VL042353.D	Trichloroethene	SAM	4/18/2025 4:20:37 PM	MMDadoda	4/18/2025 10:45:04 PM	Peak Integrated by Software
VSTDICC0.03	VL042354.D	1,1,1-Trichloroethane	SAM	4/18/2025 4:19:24 PM	MMDadoda	4/18/2025 10:45:02 PM	Peak Integrated by Software
VSTDICC0.03	VL042354.D	1,1,2,2-Tetrachloroethane	SAM	4/18/2025 4:19:24 PM	MMDadoda	4/18/2025 10:45:02 PM	Peak Integrated by Software
VSTDICC0.03	VL042354.D	Carbon Tetrachloride	SAM	4/18/2025 4:19:24 PM	MMDadoda	4/18/2025 10:45:02 PM	Peak Integrated by Software
VSTDICC0.03	VL042354.D	Tetrachloroethene	SAM	4/18/2025 4:19:24 PM	MMDadoda	4/18/2025 10:45:02 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL041725	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDIC0.03	VL042354.D	Trichloroethene	SAM	4/18/2025 4:19:24 PM	MMDadoda	4/18/2025 10:45:02 PM	Peak Integrated by Software
VSTDIC015	VL042355.D	m/p-Xylene	SAM	4/18/2025 4:21:35 PM	MMDadoda	4/18/2025 10:44:59 PM	Peak Integrated by Software
VSTDICV010	VL042356.D	m/p-Xylene	SAM	4/18/2025 4:20:42 PM	MMDadoda	4/18/2025 10:44:57 PM	Peak Integrated by Software
VL0417ABS01	VL042358.D	m/p-Xylene	SAM	4/18/2025 4:21:39 PM	MMDadoda	4/18/2025 10:44:55 PM	Peak Integrated by Software
Q1668-01	VL042361.D	Carbon Tetrachloride	SAM	4/18/2025 4:19:29 PM	MMDadoda	4/18/2025 10:44:40 PM	Peak Integrated by Software
Q1668-01	VL042361.D	Chlorodifluoromethane	SAM	4/18/2025 4:19:29 PM	MMDadoda	4/18/2025 10:44:40 PM	Peak Integrated by Software
Q1668-01	VL042361.D	Tetrachloroethene	SAM	4/18/2025 4:19:29 PM	MMDadoda	4/18/2025 10:44:40 PM	Peak Integrated by Software
Q1668-01DUP	VL042362.D	2,2,4-Trimethylpentane	SAM	4/18/2025 4:22:32 PM	MMDadoda	4/18/2025 10:44:37 PM	Peak Integrated by Software
Q1668-01DUP	VL042362.D	Carbon Tetrachloride	SAM	4/18/2025 4:22:32 PM	MMDadoda	4/18/2025 10:44:37 PM	Peak Integrated by Software
Q1668-01DUP	VL042362.D	Chlorodifluoromethane	SAM	4/18/2025 4:22:32 PM	MMDadoda	4/18/2025 10:44:37 PM	Peak Integrated by Software
Q1668-01DUP	VL042362.D	Naphthalene,2-methyl-	SAM	4/18/2025 4:22:32 PM	MMDadoda	4/18/2025 10:44:37 PM	Peak Integrated by Software
Q1668-01DUP	VL042362.D	Tetrachloroethene	SAM	4/18/2025 4:22:32 PM	MMDadoda	4/18/2025 10:44:37 PM	Peak Integrated by Software
Q1668-03	VL042363.D	2,2,4-Trimethylpentane	SAM	4/18/2025 4:20:55 PM	MMDadoda	4/18/2025 10:44:34 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL041725	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1668-03	VL042363.D	Carbon Tetrachloride	SAM	4/18/2025 4:20:55 PM	MMDadoda	4/18/2025 10:44:34 PM	Peak Integrated by Software
Q1668-03	VL042363.D	Chlorodifluoromethane	SAM	4/18/2025 4:20:55 PM	MMDadoda	4/18/2025 10:44:34 PM	Peak Integrated by Software
Q1668-03	VL042363.D	Cyclohexane	SAM	4/18/2025 4:20:55 PM	MMDadoda	4/18/2025 10:44:34 PM	Peak Integrated by Software
Q1668-03	VL042363.D	n-Butylbenzene	SAM	4/18/2025 4:20:55 PM	MMDadoda	4/18/2025 10:44:34 PM	Peak Integrated by Software
Q1668-03	VL042363.D	n-propylbenzene	SAM	4/18/2025 4:20:55 PM	MMDadoda	4/18/2025 10:44:34 PM	Peak Integrated by Software
Q1668-03	VL042363.D	Naphthalene,2-methyl-	SAM	4/18/2025 4:20:55 PM	MMDadoda	4/18/2025 10:44:34 PM	Peak Integrated by Software
Q1668-03	VL042363.D	Tetrachloroethene	SAM	4/18/2025 4:20:55 PM	MMDadoda	4/18/2025 10:44:34 PM	Peak Integrated by Software
Q1668-03	VL042363.D	Trichloroethene	SAM	4/18/2025 4:20:55 PM	MMDadoda	4/18/2025 10:44:34 PM	Peak Integrated by Software
Q1668-04	VL042364.D	2,2,4-Trimethylpentane	SAM	4/18/2025 4:21:00 PM	MMDadoda	4/18/2025 10:45:48 PM	Peak Integrated by Software
Q1668-04	VL042364.D	Carbon Tetrachloride	SAM	4/18/2025 4:21:00 PM	MMDadoda	4/18/2025 10:45:48 PM	Peak Integrated by Software
Q1668-04	VL042364.D	Chlorodifluoromethane	SAM	4/18/2025 4:21:00 PM	MMDadoda	4/18/2025 10:45:48 PM	Peak Integrated by Software
Q1668-04	VL042364.D	n-Butylbenzene	SAM	4/18/2025 4:21:00 PM	MMDadoda	4/18/2025 10:45:48 PM	Peak Integrated by Software
Q1668-04	VL042364.D	Propene	SAM	4/18/2025 4:21:00 PM	MMDadoda	4/18/2025 10:45:48 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL041725	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1668-04	VL042364.D	Tetrachloroethene	SAM	4/18/2025 4:21:00 PM	MMDadoda	4/18/2025 10:45:48 PM	Peak Integrated by Software
Q1668-02	VL042365.D	2,2,4-Trimethylpentane	SAM	4/18/2025 4:20:14 PM	MMDadoda	4/18/2025 10:44:31 PM	Peak Integrated by Software
Q1668-02	VL042365.D	Benzene	SAM	4/18/2025 4:20:14 PM	MMDadoda	4/18/2025 10:44:31 PM	Peak Integrated by Software
Q1668-02	VL042365.D	Carbon Tetrachloride	SAM	4/18/2025 4:20:14 PM	MMDadoda	4/18/2025 10:44:31 PM	Peak Integrated by Software
Q1668-02	VL042365.D	Chlorodifluoromethane	SAM	4/18/2025 4:20:14 PM	MMDadoda	4/18/2025 10:44:31 PM	Peak Integrated by Software
Q1668-02	VL042365.D	Heptane	SAM	4/18/2025 4:20:14 PM	MMDadoda	4/18/2025 10:44:31 PM	Peak Integrated by Software
Q1668-02	VL042365.D	n-Butylbenzene	SAM	4/18/2025 4:20:14 PM	MMDadoda	4/18/2025 10:44:31 PM	Peak Integrated by Software
Q1668-02	VL042365.D	Naphthalene,2-methyl-	SAM	4/18/2025 4:20:14 PM	MMDadoda	4/18/2025 10:44:31 PM	Peak Integrated by Software
Q1668-02	VL042365.D	Tetrachloroethene	SAM	4/18/2025 4:20:14 PM	MMDadoda	4/18/2025 10:44:31 PM	Peak Integrated by Software
Q1668-02	VL042365.D	Trichlorofluoromethane	SAM	4/18/2025 4:20:14 PM	MMDadoda	4/18/2025 10:44:31 PM	Peak Integrated by Software
Q1668-01DL	VL042374.D	2-Butanone	SAM	4/18/2025 4:22:06 PM	MMDadoda	4/18/2025 10:43:55 PM	Peak Integrated by Software
Q1668-01DL	VL042374.D	Benzene	SAM	4/18/2025 4:22:06 PM	MMDadoda	4/18/2025 10:43:55 PM	Peak Integrated by Software
Q1668-01DL	VL042374.D	Carbon Tetrachloride	SAM	4/18/2025 4:22:06 PM	MMDadoda	4/18/2025 10:43:55 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

VL041725

Instrument

MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1668-01DL	VL042374.D	Heptane	SAM	4/18/2025 4:22:06 PM	MMDadoda	4/18/2025 10:43:55 PM	Peak Integrated by Software
Q1668-01DL	VL042374.D	n-Butylbenzene	SAM	4/18/2025 4:22:06 PM	MMDadoda	4/18/2025 10:43:55 PM	Peak Integrated by Software
Q1668-01DL	VL042374.D	Toluene	SAM	4/18/2025 4:22:06 PM	MMDadoda	4/18/2025 10:43:55 PM	Peak Integrated by Software
Q1668-03DL	VL042375.D	Benzene	SAM	4/18/2025 4:22:02 PM	MMDadoda	4/18/2025 10:43:51 PM	Peak Integrated by Software
Q1668-03DL	VL042375.D	n-Butylbenzene	SAM	4/18/2025 4:22:02 PM	MMDadoda	4/18/2025 10:43:51 PM	Peak Integrated by Software
Q1668-03DL	VL042375.D	Styrene	SAM	4/18/2025 4:22:02 PM	MMDadoda	4/18/2025 10:43:51 PM	Peak Integrated by Software
Q1668-03DL	VL042375.D	Toluene	SAM	4/18/2025 4:22:02 PM	MMDadoda	4/18/2025 10:43:51 PM	Peak Integrated by Software

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL041725

Review By	Semsettin Yesilyurt	Review On	4/18/2025 4:23:02 PM		
Supervise By	Maresh Dadoda	Supervise On	4/18/2025 10:46:12 PM		
SubDirectory	VL041725	HP Acquire Method	TO15AIR.M	HP Processing Method	VL041725AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2590			
Initial Calibration Stds		AP2598,AP2599,AP2600			
CCC		AP2598			
Internal Standard/PEM		AP2590			
ICV/I.BLK		AP2601			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042348.D	17 Apr 2025 07:50	SY/MD	Ok
2	VSTDICCC010	VL042349.D	17 Apr 2025 09:44	SY/MD	Ok,M
3	VSTDICCC002	VL042350.D	17 Apr 2025 10:17	SY/MD	Ok,M
4	VSTDICCC001	VL042351.D	17 Apr 2025 10:48	SY/MD	Ok,M
5	VSTDICCC0.5	VL042352.D	17 Apr 2025 11:19	SY/MD	Ok,M
6	VSTDICCC0.1	VL042353.D	17 Apr 2025 11:50	SY/MD	Ok,M
7	VSTDICCC0.03	VL042354.D	17 Apr 2025 12:22	SY/MD	Ok,M
8	VSTDICCC015	VL042355.D	17 Apr 2025 12:54	SY/MD	Ok,M
9	VSTDICV010	VL042356.D	17 Apr 2025 13:43	SY/MD	Ok,M
10	VL0417ABL01	VL042357.D	17 Apr 2025 14:23	SY/MD	Ok
11	VL0417ABS01	VL042358.D	17 Apr 2025 15:39	SY/MD	Ok,M
12	Q1665-15	VL042359.D	17 Apr 2025 16:12	SY/MD	Dilution
13	Q1665-15DL	VL042360.D	17 Apr 2025 16:44	SY/MD	Ok,M
14	Q1668-01	VL042361.D	17 Apr 2025 17:17	SY/MD	Dilution
15	Q1668-01DUP	VL042362.D	17 Apr 2025 17:51	SY/MD	Ok,M
16	Q1668-03	VL042363.D	17 Apr 2025 18:24	SY/MD	Dilution
17	Q1668-04	VL042364.D	17 Apr 2025 18:58	SY/MD	Ok,M
18	Q1668-02	VL042365.D	17 Apr 2025 19:31	SY/MD	Ok,M
19	Q1726-01	VL042366.D	17 Apr 2025 20:05	SY/MD	Dilution
20	Q1726-02	VL042367.D	17 Apr 2025 20:38	SY/MD	Dilution
21	Q1726-03	VL042368.D	17 Apr 2025 21:12	SY/MD	Dilution

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL041725

Review By	Semsettin Yesilyurt	Review On	4/18/2025 4:23:02 PM		
Supervise By	Maresh Dadoda	Supervise On	4/18/2025 10:46:12 PM		
SubDirectory	VL041725	HP Acquire Method	TO15AIR.M	HP Processing Method	VL041725AIR.M
STD. NAME		STD REF.#			
Tune/Reschk	AP2590				
Initial Calibration Stds	AP2598,AP2599,AP2600				
CCC	AP2598				
Internal Standard/PEM	AP2590				
ICV/I.BLK	AP2601				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	Q1726-04	VL042369.D	17 Apr 2025 21:45	SY/MD	Dilution
23	Q1726-05	VL042370.D	17 Apr 2025 22:19	SY/MD	Dilution
24	Q1726-06	VL042371.D	17 Apr 2025 22:52	SY/MD	Dilution
25	Q1726-07	VL042372.D	17 Apr 2025 23:26	SY/MD	Dilution
26	Q1726-07DL	VL042373.D	17 Apr 2025 23:57	SY/MD	Dilution
27	Q1668-01DL	VL042374.D	18 Apr 2025 00:28	SY/MD	Ok,M
28	Q1668-03DL	VL042375.D	18 Apr 2025 00:59	SY/MD	Ok,M
29	Q1726-01DL	VL042376.D	18 Apr 2025 01:30	SY/MD	Dilution
30	Q1726-02DL	VL042377.D	18 Apr 2025 02:01	SY/MD	Dilution
31	Q1726-03DL	VL042378.D	18 Apr 2025 02:32	SY/MD	Dilution
32	Q1726-04DL	VL042379.D	18 Apr 2025 03:03	SY/MD	Dilution
33	Q1726-05DL	VL042380.D	18 Apr 2025 03:34	SY/MD	Dilution
34	Q1726-06DL	VL042381.D	18 Apr 2025 04:05	SY/MD	Dilution

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL041725

Review By	Semsettin Yesilyurt	Review On	4/18/2025 4:23:02 PM
Supervise By	Maresh Dadoda	Supervise On	4/18/2025 10:46:12 PM
SubDirectory	VL041725	HP Acquire Method	TO15AIR.M HP Processing Method VL041725AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2590
Initial Calibration Stds	AP2598,AP2599,AP2600
CCC	AP2598
Internal Standard/PEM	AP2590
ICV/I.BLK	AP2601
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL042348.D	17 Apr 2025 07:50		SY/MD	Ok
2	VSTDICCC010	VSTDICCC010	VL042349.D	17 Apr 2025 09:44		SY/MD	Ok,M
3	VSTDICC002	VSTDICC002	VL042350.D	17 Apr 2025 10:17		SY/MD	Ok,M
4	VSTDICC001	VSTDICC001	VL042351.D	17 Apr 2025 10:48		SY/MD	Ok,M
5	VSTDICC0.5	VSTDICC0.5	VL042352.D	17 Apr 2025 11:19		SY/MD	Ok,M
6	VSTDICC0.1	VSTDICC0.1	VL042353.D	17 Apr 2025 11:50		SY/MD	Ok,M
7	VSTDICC0.03	VSTDICC0.03	VL042354.D	17 Apr 2025 12:22		SY/MD	Ok,M
8	VSTDICC015	VSTDICC015	VL042355.D	17 Apr 2025 12:54		SY/MD	Ok,M
9	VSTDICV010	ICVVL041725	VL042356.D	17 Apr 2025 13:43		SY/MD	Ok,M
10	VL0417ABL01	VL0417ABL01	VL042357.D	17 Apr 2025 14:23		SY/MD	Ok
11	VL0417ABS01	VL0417ABS01	VL042358.D	17 Apr 2025 15:39		SY/MD	Ok,M
12	Q1665-15	IA-B14-1-3242025	VL042359.D	17 Apr 2025 16:12	Need 10X	SY/MD	Dilution
13	Q1665-15DL	IA-B14-1-3242025DL	VL042360.D	17 Apr 2025 16:44		SY/MD	Ok,M
14	Q1668-01	IA-B1-4-3252025	VL042361.D	17 Apr 2025 17:17	Need 4X	SY/MD	Dilution
15	Q1668-01DUP	IA-B1-4-3252025DUP	VL042362.D	17 Apr 2025 17:51		SY/MD	Ok,M
16	Q1668-03	IA-B1-3-3252025	VL042363.D	17 Apr 2025 18:24	Need 4X	SY/MD	Dilution
17	Q1668-04	IA-B1-1-3252025	VL042364.D	17 Apr 2025 18:58		SY/MD	Ok,M
18	Q1668-02	IA-B1-2-3252025	VL042365.D	17 Apr 2025 19:31		SY/MD	Ok,M

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL041725

Review By	Semsettin Yesilyurt	Review On	4/18/2025 4:23:02 PM		
Supervise By	Mahesh Dadoda	Supervise On	4/18/2025 10:46:12 PM		
SubDirectory	VL041725	HP Acquire Method	TO15AIR.M	HP Processing Method	VL041725AIR.M
STD. NAME	STD REF.#				
Tune/Reschk	AP2590				
Initial Calibration Stds	AP2598,AP2599,AP2600				
CCC	AP2598				
Internal Standard/PEM	AP2590				
ICV/I.BLK	AP2601				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

19	Q1726-01	IA-DUP-3-03312025	VL042366.D	17 Apr 2025 20:05	Need 20X	SY/MD	Dilution
20	Q1726-02	IA-B2-6-03312025	VL042367.D	17 Apr 2025 20:38	Need 20X	SY/MD	Dilution
21	Q1726-03	IA-B2-2-03312025	VL042368.D	17 Apr 2025 21:12	Need 20X	SY/MD	Dilution
22	Q1726-04	IA-B2-5-03312025	VL042369.D	17 Apr 2025 21:45	Need 20X	SY/MD	Dilution
23	Q1726-05	IA-B2-1-03312025	VL042370.D	17 Apr 2025 22:19	Need 20X	SY/MD	Dilution
24	Q1726-06	IA-B2-3-03312025	VL042371.D	17 Apr 2025 22:52	Need 20X	SY/MD	Dilution
25	Q1726-07	IA-B2-4-03312025	VL042372.D	17 Apr 2025 23:26	Need 20X	SY/MD	Dilution
26	Q1726-07DL	IA-B2-4-03312025DL	VL042373.D	17 Apr 2025 23:57	Need 40X	SY/MD	Dilution
27	Q1668-01DL	IA-B1-4-3252025DL	VL042374.D	18 Apr 2025 00:28		SY/MD	Ok,M
28	Q1668-03DL	IA-B1-3-3252025DL	VL042375.D	18 Apr 2025 00:59		SY/MD	Ok,M
29	Q1726-01DL	IA-DUP-3-03312025DL	VL042376.D	18 Apr 2025 01:30	Need 40X	SY/MD	Dilution
30	Q1726-02DL	IA-B2-6-03312025DL	VL042377.D	18 Apr 2025 02:01	Need 40X	SY/MD	Dilution
31	Q1726-03DL	IA-B2-2-03312025DL	VL042378.D	18 Apr 2025 02:32	Need 100X	SY/MD	Dilution
32	Q1726-04DL	IA-B2-5-03312025DL	VL042379.D	18 Apr 2025 03:03	Need 40X	SY/MD	Dilution
33	Q1726-05DL	IA-B2-1-03312025DL	VL042380.D	18 Apr 2025 03:34	Need further dilution	SY/MD	Dilution
34	Q1726-06DL	IA-B2-3-03312025DL	VL042381.D	18 Apr 2025 04:05	Need further dilution	SY/MD	Dilution

M : Manual Integration

Prep Standard - Chemical Standard Summary

Order ID : Q1668

Test : TO-15

Prepbatch ID :

Sequence ID/Qc Batch ID: vI041725,

Standard ID :

AP2590,AP2598,AP2599,AP2600,AP2601,

Chemical ID :

A1117,A1135,A1136,A1137,

Air STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
47	Internal Standard/Surrogate Mix-80 ppbv	AP2590	03/21/2025	04/21/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								04/03/2025

FROM 2.40000psi of A1135 + 27.60000psi of A1117 = Final Quantity: 30.000 psi

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2396	TO-15 15 PPBV CAL MIX	AP2598	04/16/2025	05/17/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								04/18/2025

FROM 1455.00000SCCM of A1117 + 45.00000SCCM of A1136 = Final Quantity: 30.000 psi

Air STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2397	TO-15 -2 PPBV CAL.MIX	AP2599	04/16/2025	05/17/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								04/18/2025

FROM 26.00000psi of A1117 + 4.00000psi of AP2598 = Final Quantity: 30.000 psi

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2668	0.5 PPBV CAL.MIX	AP2600	04/16/2025	05/17/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								04/18/2025

FROM 29.00000psi of A1117 + 1.00000psi of AP2598 = Final Quantity: 30.000 psi



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2396	TO-15 15 PPBV CAL MIX	AP2601	04/16/2025	05/17/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 04/18/2025
<u>FROM</u>	1455.00000SCCM of A1117 + 45.00000SCCM of A1137 = Final Quantity: 30.000 psi							

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
AIR LIQUIDE	365A-49 / AIR, Compressed	90402401186-01	04/01/2026	04/01/2022 / apatel	04/01/2022 / SAM	A1117

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CUSTOMGAS Solutions	TB500009-110 / TO-15 Internal Standard/Surrogate Standard	BC275465	07/16/2025	07/22/2024 / SAM	07/22/2024 / SAM	A1135

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CUSTOMGAS Solutions	TO15-80-6R-07092 / TO-15 Modified (80 comp) in Nitrogen (addition of 2-methylnaphthalene)	040424-003A	07/16/2025	07/25/2024 / SAM	07/22/2024 / SAM	A1136

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CUSTOMGAS Solutions	TO15-80-6R-07092 / TO-15 Modified (80 comp) in Nitrogen (addition of 2-methylnaphthalene)	040424-003B	07/16/2025	07/25/2024 / SAM	07/22/2024 / SAM	A1137

CUSTOMGAS SOLUTIONS



1750 East Club Boulevard

Durham, NC 27704

Phone: (919) 220-2570

Fax: (919) 220-4540

Certificate of Analysis

Customer:

Chem Tech
284 Sheffield Street
Mountainside, NJ 07092

Tel: (908) 789-8900

Cylinder Number: BC275465
Cylinder Size/CGA: 170/180SS
Fill Pressure: 1815 PSIA
Gas Volume: ~170 liters
Date of Mfg: 07/16/2024
Expiration Date: 07/16/2025

Ship To : Chem Tech
284 Sheffield Street
Mountainside, NJ 07092

Customer Number	Ship VIA	Job No.	Customer PO	Mixture Type
00107092NJ	Best Way	040424-003	240404-10	Gravimetric

Component	Nominal Concentration	Actual Concentration*	Mixture Type
Bromochloromethane	1 ppm	1.014 ppm +/- 0.02 ppm	Gravimetric Master Gas
4-Bromofluorobenzene	1 ppm	1.008 ppm +/- 0.02 ppm	
Chlorobenzene-D5	1 ppm	0.993 ppm +/- 0.02 ppm	
1,4-Difluorobenzene	1 ppm	0.979 ppm +/- 0.02 ppm	
Nitrogen	balance	balance	

NOTES: Blend Tolerance:

+/- 10 %

Analytical Tolerance:

+/- 5 %

Traceability:

NIST by weight set. NIST Traceability No MT001810.
Internal Standards by analysis

Reactive Mixtures:

Analyzed twice with required agreement between analyses of 2%.
Required wait time between analyses of >7 days.

Caution:

Do not use below 150 PSIG.

Analyst Name: Joseph A. Ernst

QA Signature: 

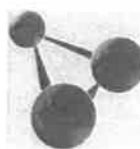
Signature: 

Date: 07/16/2024

*Every effort has been made to establish the actual concentration of the components using master gas blending technology however, Custom Gas Solutions shall have no liability in excess of the established charge for this material.

CUSTOMGAS

SOLUTIONS



1750 East Club Boulevard
Durham, NC 27704
Phone: (919) 220-2570
Fax: (919) 220-4540

Certificate of Analysis

Customer:

ChemTech
284 Sheffield Street
Mountainside, NJ 07092

Cylinder Number: BC917782
Cylinder Size/CGA: 170/180
Fill Pressure: 1815 PSIA
Gas Volume: 110 liters
Date of Mfg: 07/16/2024
Expiration Date: 07/16/2025
Lot Number: 040424-003A

Ship To : Chemtech
284 Sheffield Street
Mountainside, NJ 07092

Customer Number	Ship VIA	Job No.	Customer PO	Mixture Type
00107092NJ	Best Way	040424-003	240404-10	Gravimetric

Component	Nominal Concentration	Actual Concentration*	Mixture Type
Acetone	500 ppb	517 ppb +/- 50 ppb	Gravimetric Master Gas
Acetonitrile	500 ppb	534 ppb +/- 50 ppb	
Acrolein	500 ppb	545 ppb +/- 50 ppb	
Acrylonitrile	500 ppb	539 ppb +/- 50 ppb	-
Allyl chloride	500 ppb	509 ppb +/- 50 ppb	
Benzene	500 ppb	483 ppb +/- 50 ppb	
Benzyl Chloride	500 ppb	489 ppb +/- 50 ppb	
Bromodichloromethane	500 ppb	509 ppb +/- 50 ppb	
Bromoform	500 ppb	495 ppb +/- 50 ppb	
1,3-Butadiene	500 ppb	504 ppb +/- 50 ppb	
tert-Butyl alcohol	500 ppb	532 ppb +/- 50 ppb	
n-Butyl benzene	500 ppb	529 ppb +/- 50 ppb	
sec-Butyl benzene	500 ppb	529 ppb +/- 50 ppb	
tert-Butyl benzene	500 ppb	529 ppb +/- 50 ppb	
Carbon disulfide	500 ppb	485 ppb +/- 50 ppb	
Carbon tetrachloride	500 ppb	506 ppb +/- 50 ppb	
Chlorobenzene	500 ppb	491 ppb +/- 50 ppb	
Chlorodibromomethane	500 ppb	488 ppb +/- 50 ppb	
Chloroform	500 ppb	492 ppb +/- 50 ppb	
2-Chlorotoluene	500 ppb	532 ppb +/- 50 ppb	
Cyclohexane	500 ppb	482 ppb +/- 50 ppb	
1,2-Dibromoethane	500 ppb	491 ppb +/- 50 ppb	
1,2-Dichlorobenzene	500 ppb	510 ppb +/- 50 ppb	
1,3-Dichlorobenzene	500 ppb	489 ppb +/- 50 ppb	
1,4-Dichlorobenzene	500 ppb	490 ppb +/- 50 ppb	
Dichlorodifluoromethane (R12)	500 ppb	508 ppb +/- 50 ppb	

1,1-Dichloroethane	500 ppb	492 ppb +/- 50 ppb	
1,2-Dichloroethane	500 ppb	497 ppb +/- 50 ppb	
1,1-Dichloroethylene	500 ppb	493 ppb +/- 50 ppb	
cis 1,2-Dichloroethylene	500 ppb	488 ppb +/- 50 ppb	
trans 1,2-Dichloroethylene	500 ppb	488 ppb +/- 50 ppb	
1,2-Dichloropropane	500 ppb	490 ppb +/- 50 ppb	
cis 1,3-Dichloropropylene	500 ppb	516 ppb +/- 50 ppb	
trans 1,3-Dichloropropylene	500 ppb	466 ppb +/- 50 ppb	
1,2-Dichlorotetrafluoroethane	500 ppb	505 ppb +/- 50 ppb	
1,4-Dioxane	500 ppb	484 ppb +/- 50 ppb	
Ethyl acetate	500 ppb	486 ppb +/- 50 ppb	
Ethyl Alcohol	500 ppb	555 ppb +/- 50 ppb	
Ethyl benzene	500 ppb	497 ppb +/- 50 ppb	
Ethyl Chloride	500 ppb	506 ppb +/- 50 ppb	
4-Ethyltoluene	500 ppb	485 ppb +/- 50 ppb	
n-Heptane	500 ppb	487 ppb +/- 50 ppb	
Hexachloro-1,3-butadiene	500 ppb	489 ppb +/- 50 ppb	
2-Hexanone	500 ppb	490 ppb +/- 50 ppb	
n-Hexane	500 ppb	485 ppb +/- 50 ppb	
Isopropyl alcohol	500 ppb	511 ppb +/- 50 ppb	
Isopropyl benzene	500 ppb	527 ppb +/- 50 ppb	
p-Isopropyl toluene	500 ppb	534 ppb +/- 50 ppb	
Methyl Bromide	500 ppb	505 ppb +/- 50 ppb	
Methyl Chloride	500 ppb	509 ppb +/- 50 ppb	
Methyl ethyl ketone	500 ppb	496 ppb +/- 50 ppb	
Methyl isobutyl ketone	500 ppb	493 ppb +/- 50 ppb	
Methyl methacrylate	500 ppb	532 ppb +/- 50 ppb	
Methyl tertiary butyl ether	500 ppb	483 ppb +/- 50 ppb	
Methylene chloride	500 ppb	498 ppb +/- 50 ppb	
Naphthalene	500 ppb	542 ppb +/- 50 ppb	
n-Propylbenzene	500 ppb	529 ppb +/- 50 ppb	
Propylene	500 ppb	508 ppb +/- 50 ppb	
Styrene	500 ppb	485 ppb +/- 50 ppb	
1,1,1,2-Tetrachloroethane	500 ppb	483 ppb +/- 50 ppb	
1,1,2,2-Tetrachloroethane	500 ppb	534 ppb +/- 50 ppb	
Tetrachloroethylene	500 ppb	487 ppb +/- 50 ppb	
Tetrahydrofuran	500 ppb	535 ppb +/- 50 ppb	
Toluene	500 ppb	491 ppb +/- 50 ppb	
1,2,4-Trichlorobenzene	500 ppb	494 ppb +/- 50 ppb	
1,1,1-Trichloroethane	500 ppb	494 ppb +/- 50 ppb	
1,1,2-Trichloroethane	500 ppb	494 ppb +/- 50 ppb	
Trichloroethylene	500 ppb	488 ppb +/- 50 ppb	
Trichlorofluoromethane	500 ppb	508 ppb +/- 50 ppb	
1,1,2-Trichlorotrifluoroethane	500 ppb	495 ppb +/- 50 ppb	
1,2,4-Trimethylbenzene	500 ppb	494 ppb +/- 50 ppb	
1,3,5-Trimethylbenzene	500 ppb	498 ppb +/- 50 ppb	
2,2,4-Trimethylpentane	500 ppb	489 ppb +/- 50 ppb	
Vinyl acetate	500 ppb	499 ppb +/- 50 ppb	
Vinyl bromide	500 ppb	505 ppb +/- 50 ppb	
Vinyl chloride	500 ppb	507 ppb +/- 50 ppb	
m-Xylene	500 ppb	492 ppb +/- 50 ppb	
o-Xylene	500 ppb	480 ppb +/- 50 ppb	
p-Xylene	500 ppb	486 ppb +/- 50 ppb	
2-Methyl Naphthalene	500 ppb	498 ppb +/- 50 ppb	
R-22	500 ppb	590 ppb +/- 50 ppb	
Nitrogen	balance	balance	

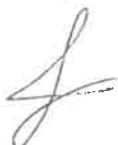
NOTES: Blend Tolerance: +/- 20 %
Analytical Tolerance: +/- 10 %
Traceability: NIST by weight set. NIST Traceability No MT001810.
Internal Standards by analysis
Reactive Mixtures: Analyzed twice with required agreement between analyses of 2%.
Required wait time between analyses of >7 days.
Caution: Do not use below 150 PSIG.

Analyst Name: Joseph A. Ernst

QA Signature: 

Signature:

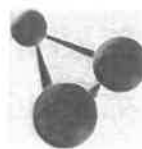
Date: 07/16/2024



*Every effort has been made to establish the actual concentration of the components using master gas blending technology however, Custom Gas Solutions shall have no liability in excess of the established charge for this material.

CUSTOMGAS

SOLUTIONS



1750 East Club Boulevard
Durham, NC 27704
Phone: (919) 220-2570
Fax: (919) 220-4540

Certificate of Analysis

Customer:

ChemTech
284 Sheffield Street
Mountainside, NJ 07092

Cylinder Number: BC169552
Cylinder Size/CGA: 170/180
Fill Pressure: 1815 PSIA
Gas Volume: 110 liters
Date of Mfg: 07/16/2024
Expiration Date: 07/16/2025
Lot Number: 040424-003B

Ship To : Chemtech
284 Sheffield Street
Mountainside, NJ 07092

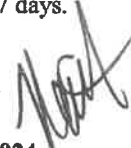
Customer Number	Ship VIA	Job No.	Customer PO	Mixture Type
00107092NJ	Best Way	040424-003	240404-10	Gravimetric

Component	Nominal Concentration	Actual Concentration*	Mixture Type
Acetone	500 ppb	502 ppb +/- 50 ppb	Gravimetric Master Gas
Acetonitrile	500 ppb	530 ppb +/- 50 ppb	
Acrolein	500 ppb	540 ppb +/- 50 ppb	
Acrylonitrile	500 ppb	535 ppb +/- 50 ppb	
Allyl chloride	500 ppb	494 ppb +/- 50 ppb	
Benzene	500 ppb	470 ppb +/- 50 ppb	
Benzyl Chloride	500 ppb	476 ppb +/- 50 ppb	
Bromodichloromethane	500 ppb	495 ppb +/- 50 ppb	
Bromoform	500 ppb	481 ppb +/- 50 ppb	
1,3-Butadiene	500 ppb	490 ppb +/- 50 ppb	
tert-Butyl alcohol	500 ppb	527 ppb +/- 50 ppb	
n-Butyl benzene	500 ppb	525 ppb +/- 50 ppb	
sec-Butyl benzene	500 ppb	525 ppb +/- 50 ppb	
tert-Butyl benzene	500 ppb	525 ppb +/- 50 ppb	
Carbon disulfide	500 ppb	471 ppb +/- 50 ppb	
Carbon tetrachloride	500 ppb	492 ppb +/- 50 ppb	
Chlorobenzene	500 ppb	478 ppb +/- 50 ppb	
Chlorodibromomethane	500 ppb	474 ppb +/- 50 ppb	
Chloroform	500 ppb	478 ppb +/- 50 ppb	
2-Chlorotoluene	500 ppb	527 ppb +/- 50 ppb	
Cyclohexane	500 ppb	469 ppb +/- 50 ppb	
1,2-Dibromoethane	500 ppb	477 ppb +/- 50 ppb	
1,2-Dichlorobenzene	500 ppb	495 ppb +/- 50 ppb	
1,3-Dichlorobenzene	500 ppb	475 ppb +/- 50 ppb	
1,4-Dichlorobenzene	500 ppb	476 ppb +/- 50 ppb	
Dichlorodifluoromethane (R12)	500 ppb	494 ppb +/- 50 ppb	

1,1-Dichloroethane	500 ppb	478 ppb +/- 50 ppb	
1,2-Dichloroethane	500 ppb	483 ppb +/- 50 ppb	
1,1-Dichloroethylene	500 ppb	479 ppb +/- 50 ppb	
cis 1,2-Dichloroethylene	500 ppb	475 ppb +/- 50 ppb	
trans 1,2-Dichloroethylene	500 ppb	475 ppb +/- 50 ppb	
1,2-Dichloropropane	500 ppb	476 ppb +/- 50 ppb	
cis 1,3-Dichloropropylene	500 ppb	501 ppb +/- 50 ppb	
trans 1,3-Dichloropropylene	500 ppb	466 ppb +/- 50 ppb	
1,2-Dichlorotetrafluoroethane	500 ppb	491 ppb +/- 50 ppb	
1,4-Dioxane	500 ppb	470 ppb +/- 50 ppb	
Ethyl acetate	500 ppb	472 ppb +/- 50 ppb	
Ethyl Alcohol	500 ppb	550 ppb +/- 50 ppb	
Ethyl benzene	500 ppb	483 ppb +/- 50 ppb	
Ethyl Chloride	500 ppb	492 ppb +/- 50 ppb	
4-Ethyltoluene	500 ppb	472 ppb +/- 50 ppb	
n-Heptane	500 ppb	473 ppb +/- 50 ppb	
Hexachloro-1,3-butadiene	500 ppb	475 ppb +/- 50 ppb	
2-Hexanone	500 ppb	477 ppb +/- 50 ppb	
n-Hexane	500 ppb	471 ppb +/- 50 ppb	
Isopropyl alcohol	500 ppb	497 ppb +/- 50 ppb	
Isopropyl benzene	500 ppb	522 ppb +/- 50 ppb	
p-Isopropyl toluene	500 ppb	530 ppb +/- 50 ppb	
Methyl Bromide	500 ppb	491 ppb +/- 50 ppb	
Methyl Chloride	500 ppb	494 ppb +/- 50 ppb	
Methyl ethyl ketone	500 ppb	482 ppb +/- 50 ppb	
Methyl isobutyl ketone	500 ppb	479 ppb +/- 50 ppb	
Methyl methacrylate	500 ppb	527 ppb +/- 50 ppb	
Methyl tertiary butyl ether	500 ppb	470 ppb +/- 50 ppb	
Methylene chloride	500 ppb	484 ppb +/- 50 ppb	
Naphthalene	500 ppb	537 ppb +/- 50 ppb	
n-Propylbenzene	500 ppb	525 ppb +/- 50 ppb	
Propylene	500 ppb	494 ppb +/- 50 ppb	
Styrene	500 ppb	472 ppb +/- 50 ppb	
1,1,1,2-Tetrachloroethane	500 ppb	530 ppb +/- 50 ppb	
1,1,2,2-Tetrachloroethane	500 ppb	470 ppb +/- 50 ppb	
Tetrachloroethylene	500 ppb	473 ppb +/- 50 ppb	
Tetrahydrofuran	500 ppb	520 ppb +/- 50 ppb	
Toluene	500 ppb	477 ppb +/- 50 ppb	
1,2,4-Trichlorobenzene	500 ppb	480 ppb +/- 50 ppb	
1,1,1-Trichloroethane	500 ppb	480 ppb +/- 50 ppb	
1,1,2-Trichloroethane	500 ppb	481 ppb +/- 50 ppb	
Trichloroethylene	500 ppb	474 ppb +/- 50 ppb	
Trichlorofluoromethane	500 ppb	494 ppb +/- 50 ppb	
1,1,2-Trichlorotrifluoroethane	500 ppb	481 ppb +/- 50 ppb	
1,2,4-Trimethylbenzene	500 ppb	480 ppb +/- 50 ppb	
1,3,5-Trimethylbenzene	500 ppb	484 ppb +/- 50 ppb	
2,2,4-Trimethylpentane	500 ppb	475 ppb +/- 50 ppb	
Vinyl acetate	500 ppb	485 ppb +/- 50 ppb	
Vinyl bromide	500 ppb	491 ppb +/- 50 ppb	
Vinyl chloride	500 ppb	493 ppb +/- 50 ppb	
m-Xylene	500 ppb	479 ppb +/- 50 ppb	
o-Xylene	500 ppb	466 ppb +/- 50 ppb	
p-Xylene	500 ppb	473 ppb +/- 50 ppb	
2-Methyl Naphthalene	500 ppb	497 ppb +/- 50 ppb	
R-22	500 ppb	589 ppb +/- 50 ppb	
Nitrogen	balance	balance	

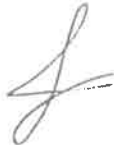
NOTES: Blend Tolerance: +/- 20 %
Analytical Tolerance: +/- 10 %
Traceability: NIST by weight set. NIST Traceability No MT001810.
Internal Standards by analysis
Reactive Mixtures: Analyzed twice with required agreement between analyses of 2%.
Required wait time between analyses of >7 days.
Caution: Do not use below 150 PSIG.

Analyst Name: Joseph A. Ernst

QA Signature: 

Signature:

Date: 07/16/2024



*Every effort has been made to establish the actual concentration of the components using master gas blending technology however, Custom Gas Solutions shall have no liability in excess of the established charge for this material.

Process Report

Order ID : Q1668

Date	Bottle ID	Lab Sample Number	InComing Vacuum	Canister ID	Can Size	Reg ID	Reg Size	Batch Code	Certification ID
03/31/2025	B2502051	Q1668-04	-4.7	10601	6 L	10110		C2501002	VL041876.D Seq :VL010925 TUNE : VL041857.D ICAL : VL041864.D CCAL : VL041859.D MB : VL041869.D
03/31/2025	B2502051	Q1668-01	-5.9	10588	6 L	10637		C2501004	VL041966.D Seq :VL020325 TUNE : VL041957.D ICAL : VL041894.D CCAL : VL041958.D MB : VL041960.D
03/31/2025	B2502051	Q1668-02	-5.5	10269	6 L	10529		C2502002	VL042052.D Seq :VL022625 TUNE : VL042049.D ICAL : VL042046.D CCAL : VL042050.D MB : VL042051.D
03/31/2025	B2502051	Q1668-03	-5.5	10060	6 L	10610		C2503001	VL042143.D Seq :VL031425 TUNE : VL042140.D ICAL : VL042046.D CCAL : VL042141.D MB : VL042142.D



Canister Cleaning

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

Canister Batch : C2501002

Type of Canister : 6 L

Cleaning Date : 01/07/2025

Analyst : SAM

Oven Temperature : 125.0 c

Canister	Vaccum After Cleaning ("Hg)	Vaccum After Cleaning Date	Analysis Date	VAC 24Hr ("Hg)	Vaccum After 24hr Date	New Sample Number	QC Canister	File
10326	-30	01/08/2025	01/09/2025	-30	01/09/2025	Q1483-03	10601	VL041876.D
10300	-30	01/08/2025	01/09/2025	-30	01/09/2025	Q1483-04	10601	VL041876.D
10606	-30	01/08/2025	01/09/2025	-30	01/09/2025	Q1450-02	10601	VL041876.D
10604	-30	01/08/2025	01/09/2025	-30	01/09/2025	Q1483-01	10601	VL041876.D
10401	-30	01/08/2025	01/09/2025	-30	01/09/2025	Q1483-02	10601	VL041876.D
10054	-30	01/08/2025	01/09/2025	-30	01/09/2025	Q1506-01	10601	VL041876.D
10601	-30	01/08/2025	01/09/2025	-30	01/09/2025	Q1668-04	10601	VL041876.D
10329	-30	01/08/2025	01/09/2025	-30	01/09/2025	Q1506-02	10601	VL041876.D



Canister Cleaning

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

Canister Batch : C2501004

Type of Canister : 6 L

Cleaning Date : 01/28/2025

Analyst : SAM

Oven Temperature : 125.0 c

Canister	Vaccum After Cleaning ("Hg)	Vaccum After Cleaning Date	Analysis Date	VAC 24Hr ("Hg)	Vaccum After 24hr Date	New Sample Number	QC Canister	File
10596	-30	01/29/2025	02/03/2025	-30	01/30/2025	Q1725-06	10439	VL041966.D
10321	-30	01/29/2025	02/03/2025	-30	01/30/2025	Q1533-02	10439	VL041966.D
10296	-30	01/29/2025	02/03/2025	-30	01/30/2025	Q1533-01	10439	VL041966.D
10439	-30	01/29/2025	02/03/2025	-30	01/30/2025	Q1649-02	10439	VL041966.D
10282	-30	01/29/2025	02/03/2025	-30	01/30/2025	Q1669-08	10439	VL041966.D
10588	-30	01/29/2025	02/03/2025	-30	01/30/2025	Q1668-01	10439	VL041966.D
10333	-30	01/29/2025	02/03/2025	-30	01/30/2025	Q1725-08	10439	VL041966.D
10602	-30	01/29/2025	02/03/2025	-30	01/30/2025	Q1755-01	10439	VL041966.D



Canister Cleaning

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

Canister Batch : C2502002

Type of Canister : 6 L

Cleaning Date : 02/17/2025

Analyst : SAM

Oven Temperature : 125.0 c

Canister	Vaccum After Cleaning ("Hg)	Vaccum After Cleaning Date	Analysis Date	VAC 24Hr ("Hg)	Vaccum After 24hr Date	New Sample Number	QC Canister	File
10281	-30	02/18/2025	02/26/2025	-30	02/19/2025	Q1665-05	10271	VL042052.D
10592	-30	02/18/2025	02/26/2025	-30	02/19/2025	Q1665-07	10271	VL042052.D
10306	-30	02/18/2025	02/26/2025	-30	02/19/2025	Q1665-22	10271	VL042052.D
10595	-30	02/18/2025	02/26/2025	-30	02/19/2025	Q1665-20	10271	VL042052.D
10198	-30	02/18/2025	02/26/2025	-30	02/19/2025	Q1665-06	10271	VL042052.D
10332	-30	02/18/2025	02/26/2025	-30	02/19/2025	Q1665-21	10271	VL042052.D
10269	-30	02/18/2025	02/26/2025	-30	02/19/2025	Q1668-02	10271	VL042052.D
10271	-30	02/18/2025	02/26/2025	-30	02/19/2025	Q1665-12	10271	VL042052.D



Canister Cleaning

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

Canister Batch : C2503001

Type of Canister : 6 L

Cleaning Date : 03/10/2025

Analyst : SAM

Oven Temperature : 125.0 c

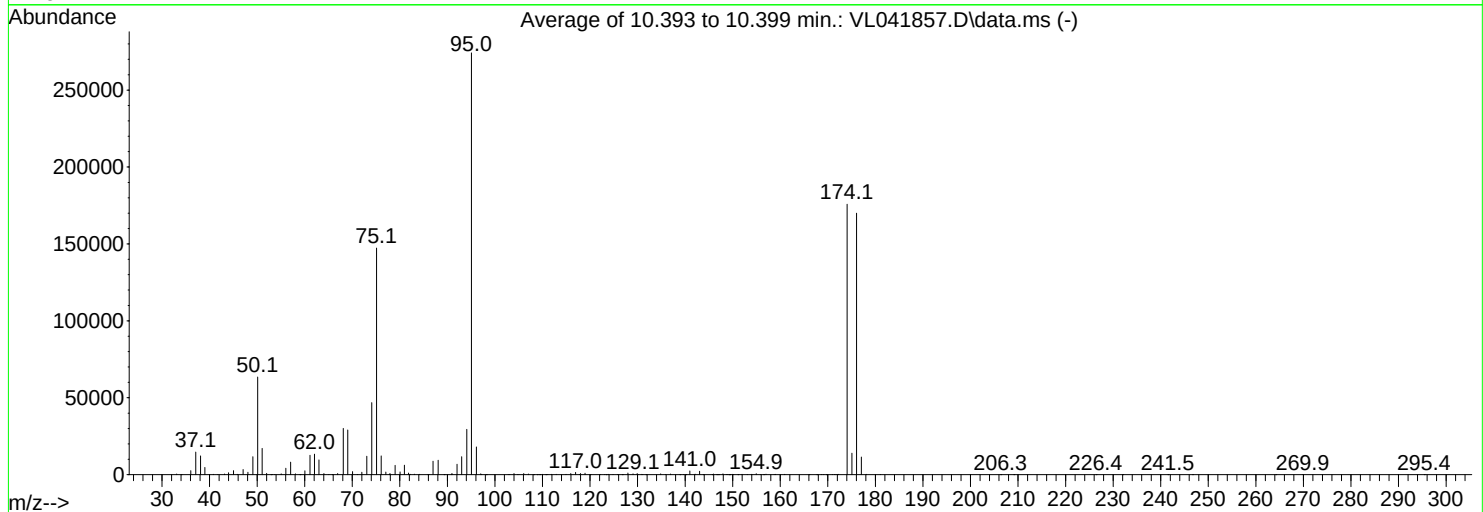
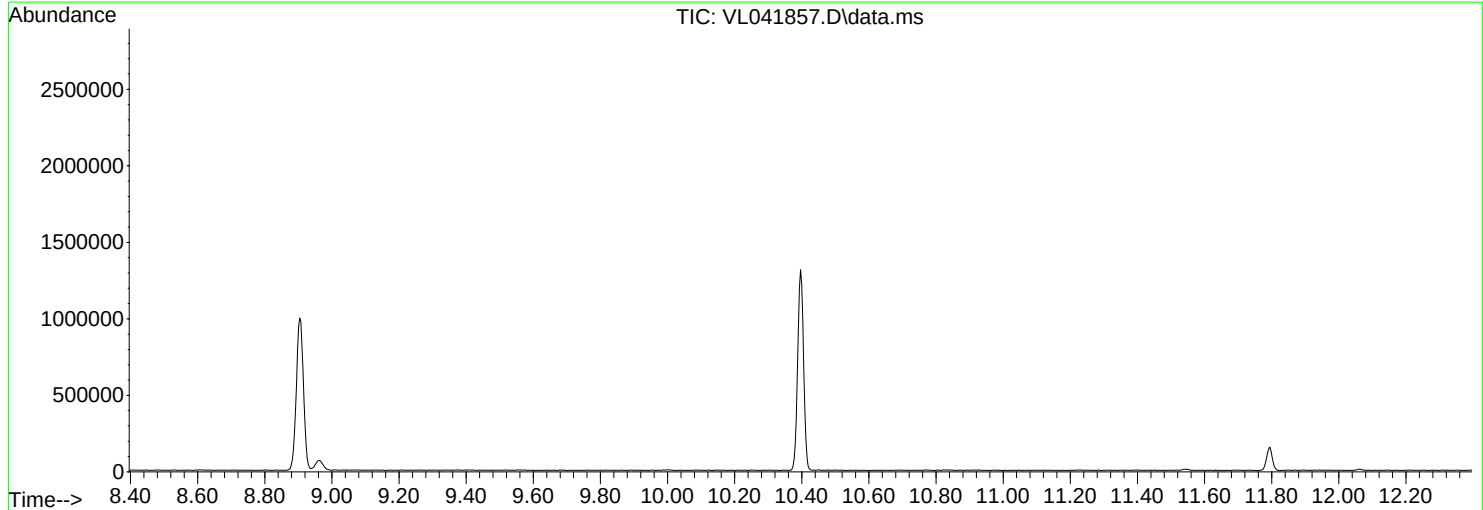
Canister	Vaccum After Cleaning ("Hg)	Vaccum After Cleaning Date	Analysis Date	VAC 24Hr ("Hg)	Vaccum After 24hr Date	New Sample Number	QC Canister	File
10445	-30	03/11/2025	03/14/2025	-30	03/12/2025	Q1669-07	10267	VL042143.D
10267	-30	03/11/2025	03/14/2025	-30	03/12/2025	Q1669-04	10267	VL042143.D
10492	-30	03/11/2025	03/14/2025	-30	03/12/2025	Q1665-10	10267	VL042143.D
10606	-30	03/11/2025	03/14/2025	-30	03/12/2025	Q1669-06	10267	VL042143.D
10280	-30	03/11/2025	03/14/2025	-30	03/12/2025	Q1726-02	10267	VL042143.D
10597	-30	03/11/2025	03/14/2025	-30	03/12/2025	Q1726-01	10267	VL042143.D
10320	-30	03/11/2025	03/14/2025	-30	03/12/2025	Q1669-03	10267	VL042143.D
10060	-30	03/11/2025	03/14/2025	-30	03/12/2025	Q1668-03	10267	VL042143.D

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
Data File : VL041857.D
Acq On : 09 Jan 2025 09:48
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Fri Jan 10 00:31:30 2025



AutoFind: Scans 3184, 3185, 3186; Background Corrected with Scan 3165

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	8	40	23.1	63467	PASS
75	95	30	66	53.7	147285	PASS
95	95	100	100	100.0	274227	PASS
96	95	5	9	6.6	18052	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	64.1	175765	PASS
175	174	4	9	7.9	13949	PASS
176	174	93	101	96.7	170005	PASS
177	176	5	9	6.7	11408	PASS

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\

Method File : VL010925AIR.M

Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

Last Update : Fri Jan 10 00:31:30 2025

Response Via : Initial Calibration

Calibration Files

0.03=VL041864.D 0.1 =VL041863.D 0.5 =VL041862.D 1 =VL041861.D 2 =VL041860.D 10 =VL041859.D 15 =VL041865.D

Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD

1) I Bromochloromethane	-----ISTD-----								
2) T Dichlorodifluo...			1.790	1.746	1.644	1.508	1.521	1.642	7.77
3) Chlorodifluoro...			1.980	1.875	1.875	1.648	1.638	1.803	8.46
4) Chloromethane			0.661	0.675	0.683	0.571	0.601	0.638	7.73
5) T Vinyl Chloride	0.889	0.745	0.671	0.653	0.628	0.576	0.589	0.679	15.97
6) T Bromomethane			0.390	0.315	0.337	0.265	0.293	0.320	14.78
7) Chloroethane			0.288	0.282	0.273	0.229	0.243	0.263	9.74
8) T Dichlorotetra...			1.495	1.443	1.541	1.306	1.353	1.427	6.83
9) T Propene			0.941	0.917	0.856	0.747	0.747	0.841	10.88
10) T Heptane			2.468	2.322	2.271	2.021	2.012	2.219	8.94
11) T Trichlorofluor...			1.818	1.734	1.794	1.485	1.607	1.687	8.28
12) T 1,1,2-Trichlor...			1.480	1.405	1.442	1.207	1.291	1.365	8.30
13) Ethanol			0.074	0.060	0.062	0.035	0.036	0.053	32.34
14) T Bromoethene			0.534	0.482	0.522	0.437	0.468	0.489	8.15
15) T Acetone			2.132	1.970	1.818	1.220	1.293	1.687	24.25
16) T 1,3-Butadiene			0.982	0.742	0.710	0.574	0.615	0.724	21.97
17) tert-Butyl alc...			2.095	2.023	1.995	1.708	1.746	1.914	9.12
18) T 1,1-Dichloroet...			0.682	0.661	0.624	0.543	0.579	0.618	9.30
19) T Isopropyl Alcohol			1.049	0.974	0.894	0.737	0.778	0.886	14.74
20) T Methylene Chlo...			0.678	0.650	0.589	0.477	0.484	0.575	16.11
21) T Allyl Chloride			1.212	1.123	1.113	0.944	1.004	1.079	9.82
22) T trans-1,2-Dich...			0.787	0.768	0.751	0.614	0.657	0.715	10.60
23) T Vinyl Acetate			0.747	0.813	1.062	0.813	0.838	0.855	14.14
24) T 1,1-Dichloroet...			1.483	1.447	1.407	1.182	1.256	1.355	9.58
25) T Ethyl Acetate			4.395	4.387	4.334	3.930	3.909	4.191	5.94
26) T Hexane			1.880	1.798	1.796	1.575	1.572	1.724	8.22
27) T Carbon Disulfide			1.742	1.682	1.729	1.513	1.590	1.651	5.91
28) T Methyl tert-Bu...			1.432	1.348	1.504	1.137	1.158	1.316	12.43
29) T Chloroform			2.559	2.541	2.571	2.188	2.203	2.412	8.23
30) T Cyclohexane			1.544	1.520	1.599	1.364	1.377	1.481	7.06
31) T cis-1,2-Dichlo...			1.823	1.793	1.721	1.538	1.550	1.685	7.96
32) T 1,1,1-Trichlor...	2.446	2.507	2.490	2.394	2.480	2.189	2.268	2.396	5.11

33) I 1,4-Difluorobenzene	-----ISTD-----								
34) T 2-Butanone			0.886	0.861	0.893	0.753	0.764	0.831	8.15
35) T Carbon Tetrach...	0.939	0.734	0.733	0.762	0.786	0.732	0.754	0.777	9.52
36) T Benzene			1.194	1.211	1.210	1.099	1.086	1.160	5.35
37) T 1,2-Dichloroet...			0.672	0.606	0.622	0.564	0.579	0.609	6.91
38) T Trichloroethene	0.413	0.496	0.499	0.472	0.470	0.425	0.430	0.458	7.65
39) T 1,2-Dichloropr...			0.437	0.422	0.427	0.387	0.390	0.413	5.47

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\ Method File : VL010925AIR.M										
40)	T	1,4-Dioxane		0.231	0.212	0.214	0.189	0.192	0.208	8.33
41)	T	Tetrahydrofuran		0.531	0.502	0.506	0.454	0.448	0.488	7.33
42)	T	Bromodichlorom...		0.839	0.853	0.856	0.804	0.829	0.836	2.53
43)		Methyl Methacr...		0.511	0.483	0.478	0.451	0.452	0.475	5.22
44)	T	2,2,4-Trimethy...		2.057	2.049	2.044	1.829	1.820	1.960	6.32
45)	T	t-1,3-Dichloro...		0.494	0.491	0.492	0.479	0.475	0.486	1.78
46)	T	cis-1,3-Dichlo...		0.641	0.640	0.625	0.608	0.606	0.624	2.66
47)	T	1,1,2-Trichlor...		0.460	0.452	0.447	0.399	0.413	0.434	6.15
48)	T	Dibromochlorom...		0.637	0.634	0.696	0.656	0.669	0.658	3.85
49)	T	Bromoform		0.522	0.565	0.610	0.583	0.594	0.575	5.86
50)	T	4-Methyl-2-Pen...		1.246	1.237	1.228	1.108	1.113	1.186	5.89
51)	T	2-Hexanone		1.034	0.993	1.031	0.909	0.912	0.976	6.32
52)	T	Tetrachloroethene	0.547 0.499	0.445	0.430	0.428	0.381	0.382	0.444	13.64
53)	T	Toluene		1.443	1.434	1.422	1.297	1.303	1.380	5.30
54)	T	1,2-Dibromoethane	0.550	0.619	0.616	0.619	0.562	0.577	0.590	5.33
-----ISTD-----										
55)	I	Chlorobenzene-d5								
56)		1,1,1,2-Tetrac...		0.619	0.615	0.638	0.547	0.561	0.596	6.69
57)	T	Chlorobenzene		1.171	1.197	1.171	1.016	1.019	1.115	8.03
58)	T	Ethyl Benzene		2.107	2.147	2.215	1.907	1.904	2.056	6.94
59)	T	m/p-Xylene		1.679	1.715	1.735	1.486	1.509	1.625	7.27
60)	T	o-Xylene		1.713	1.709	1.728	1.474	1.480	1.621	8.10
61)	T	Styrene		0.846	0.815	0.858	0.769	0.759	0.809	5.46
62)		Isopropylbenzene		2.546	2.578	2.649	2.231	2.196	2.440	8.63
63)	T	1,1,2,2-Tetrac...	0.917 1.102	1.015	0.991	1.032	0.883	0.874	0.973	8.74
64)		n-propylbenzene		0.672	0.675	0.684	0.573	0.576	0.636	8.85
65)		tert-Butylbenzene		2.320	2.413	2.449	1.954	1.906	2.208	11.74
66)	T	Benzyl Chloride		0.245	0.232	0.253	0.215	0.199	0.229	9.56
67)		sec-Butylbenzene		3.272	3.300	3.369	2.680	2.593	3.043	12.29
68)	S	1-Bromo-4-Fluo...	0.806 0.797	0.806	0.803	0.809	0.801	0.791	0.802	0.78
69)		p-Isopropyltol...		2.708	2.843	2.861	2.321	2.250	2.597	11.21
70)		n-Butylbenzene		2.797	2.833	2.871	2.307	2.223	2.606	12.05
71)		2-Chlorotoluene		2.019	2.016	2.016	1.707	1.688	1.889	9.28
72)	T	4-Ethyltoluene		2.031	2.130	2.181	1.817	1.777	1.987	9.18
73)	T	1,3,5-Trimethy...		1.730	1.818	1.830	1.532	1.525	1.687	8.88
74)	T	1,2,4-Trimethy...		1.908	2.001	2.042	1.617	1.595	1.833	11.62
75)	T	1,3-Dichlorobe...		1.190	1.177	1.191	0.966	0.969	1.099	10.91
76)	T	1,4-Dichlorobe...		1.170	1.148	1.185	0.966	0.969	1.088	10.15
77)	T	1,2-Dichlorobe...		1.124	1.117	1.122	0.915	0.915	1.039	10.87
78)	T	Hexachloro-1,3...		0.999	1.015	1.009	0.714	0.725	0.893	17.71
79)	T	Naphthalene	2.105	2.131	2.188	2.263	1.580	1.579	1.974	15.75
80)	T	Naphthalene,2-...		1.184	1.261	1.336	0.763	0.780	1.065	25.66
81)	T	1,2,4-Trichlor...		1.006	1.081	1.081	0.764	0.768	0.940	17.19

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
 Data File : VL041859.D
 Acq On : 09 Jan 2025 11:19
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 01/10/2025
 Supervised By :Semsettin Yesilyurt 01/10/2025

Quant Time: Jan 09 11:50:04 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Wed Jan 08 03:26:12 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.803	49	150033	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.985	114	442867	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.904	117	410499	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.396 95 328846 9.353 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 93.500%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.505	85	226313	9.193	ppbv	99
3) Chlorodifluoromethane	1.483	51	247276	10.513	ppbv	98
4) Chloromethane	1.541	50	85664	8.462	ppbv	95
5) Vinyl Chloride	1.586	62	86352	8.457	ppbv	98
6) Bromomethane	1.677	94	39829	9.107	ppbv	96
7) Chloroethane	1.713	64	34351	8.740	ppbv	94
8) Dichlorotetrafluoroethane	1.560	85	195898	9.224	ppbv	93
9) Propene	1.489	41	112124	13.692	ppbv	98
10) Heptane	5.014	43	303272	14.992	ppbv	95
11) Trichlorofluoromethane	1.887	101	222752	8.899	ppbv	95
12) 1,1,2-Trichlorotrifluo...	2.153	101	181116	9.715	ppbv	90
13) Ethanol	1.729	45	5261m	5.647	ppbv	
14) Bromoethene	1.790	108	65566	10.743	ppbv	96
15) Acetone	1.845	43	183039	6.626	ppbv	94
16) 1,3-Butadiene	1.615	39	86059	7.945	ppbv	94
17) tert-Butyl alcohol	2.052	59	256303	10.708	ppbv	99
18) 1,1-Dichloroethene	2.046	96	81423	10.432	ppbv	89
19) Isopropyl Alcohol	1.897	45	110578	8.528	ppbv #	1
20) Methylene Chloride	2.072	84	71501	9.055	ppbv #	81
21) Allyl Chloride	2.107	41	141576	9.950	ppbv	90
22) trans-1,2-Dichloroethene	2.353	96	92062	10.553	ppbv	93
23) Vinyl Acetate	2.480	43	121914	13.762	ppbv #	92
24) 1,1-Dichloroethane	2.425	63	177291	9.286	ppbv	100
25) Ethyl Acetate	2.855	43	589565	12.728	ppbv	98
26) Hexane	2.845	57	236237	14.695	ppbv	88
27) Carbon Disulfide	2.162	76	226986	14.877	ppbv #	88
28) Methyl tert-Butyl Ether	2.457	73	170565	14.077	ppbv	98
29) Chloroform	2.868	83	328206	10.989	ppbv	97
30) Cyclohexane	3.884	84	204595	16.773	ppbv #	89
31) cis-1,2-Dichloroethene	2.739	61	230732	13.944	ppbv	92
32) 1,1,1-Trichloroethane	3.392	97	328356	12.132	ppbv	94
34) 2-Butanone	2.573	43	333402	9.557	ppbv	95
35) Carbon Tetrachloride	3.787	117	324320	9.690	ppbv	97
36) Benzene	3.680	78	486852	11.507	ppbv #	95
37) 1,2-Dichloroethane	3.240	62	249944	8.987	ppbv	97
38) Trichloroethene	4.577	130	188346	11.357	ppbv	95
39) 1,2-Dichloropropane	4.344	63	171561	10.483	ppbv #	84
40) 1,4-Dioxane	4.616	88	83645	13.190	ppbv #	66
41) Tetrahydrofuran	3.075	42	201204	12.236	ppbv	93
42) Bromodichloromethane	4.522	83	355888	10.910	ppbv	97
43) Methyl Methacrylate	4.914	69	199710	15.032	ppbv	87
44) 2,2,4-Trimethylpentane	4.674	57	809851	11.618	ppbv	93
45) t-1,3-Dichloropropene	6.454	75	212343	16.371	ppbv	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
 Data File : VL041859.D
 Acq On : 09 Jan 2025 11:19
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 01/10/2025
 Supervised By :Semsettin Yesilyurt 01/10/2025

Quant Time: Jan 09 11:50:04 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Wed Jan 08 03:26:12 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.639	75	269395	15.788	ppbv	87
47) 1,1,2-Trichloroethane	6.619	97	176811	10.214	ppbv	97
48) Dibromochloromethane	7.419	129	290737	13.195	ppbv	99
49) Bromoform	9.506	173	257972	14.609	ppbv	99
50) 4-Methyl-2-Pentanone	5.797	43	490478	12.169	ppbv	92
51) 2-Hexanone	7.467	43	402499	13.184	ppbv #	88
52) Tetrachloroethene	8.251	164	168568	13.435	ppbv	96
53) Toluene	6.969	91	574578	15.242	ppbv	99
54) 1,2-Dibromoethane	7.681	107	248821	11.739	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.946	131	224424	9.592	ppbv	99
57) Chlorobenzene	8.946	112	417085	9.725	ppbv	96
58) Ethyl Benzene	9.380	91	782806	13.992	ppbv	99
59) m/p-Xylene	9.558	91	1220366m	24.712	ppbv	
60) o-Xylene	9.985	91	605176	12.598	ppbv	99
61) Styrene	9.895	104	315614	16.935	ppbv	97
62) Isopropylbenzene	10.561	105	915687	12.133	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.985	83	362310	8.601	ppbv	100
64) n-propylbenzene	11.011	120	235202	12.147	ppbv	98
65) tert-Butylbenzene	11.552	119	801987	11.792	ppbv	96
66) Benzyl Chloride	11.636	91	88168	15.512	ppbv	95
67) sec-Butylbenzene	11.788	105	1100240	11.087	ppbv	98
69) p-Isopropyltoluene	11.947	119	952865	12.230	ppbv	97
70) n-Butylbenzene	12.300	91	946867	12.097	ppbv	98
71) 2-Chlorotoluene	10.921	91	700520	12.787	ppbv	100
72) 4-Ethyltoluene	11.144	105	745709	12.837	ppbv	99
73) 1,3,5-Trimethylbenzene	11.225	105	628921	12.361	ppbv	97
74) 1,2,4-Trimethylbenzene	11.558	105	663696	11.261	ppbv	95
75) 1,3-Dichlorobenzene	11.626	146	396672	10.056	ppbv	98
76) 1,4-Dichlorobenzene	11.691	146	396593	10.448	ppbv	97
77) 1,2-Dichlorobenzene	11.966	146	375622	9.138	ppbv	99
78) Hexachloro-1,3-Butadiene	13.902	225	293286	10.050	ppbv	100
79) Naphthalene	13.533	128	648444	14.936	ppbv	99
80) Naphthalene,2-methyl-	14.478	142	313133	19.488	ppbv	97
81) 1,2,4-Trichlorobenzene	13.458	180	313601	13.033	ppbv	100

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
 Data File : VL041860.D
 Acq On : 09 Jan 2025 11:52
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 01/10/2025
 Supervised By :Semsettin Yesilyurt 01/10/2025

Quant Time: Jan 09 12:25:14 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Wed Jan 08 03:26:12 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.803	49	145561	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.981	114	440592	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.904	117	401428	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.396 95 324737 9.445 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 94.500%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.505	85	47849	2.003	ppbv	98
3) Chlorodifluoromethane	1.483	51	54584	2.392	ppbv	98
4) Chloromethane	1.541	50	19879	2.024	ppbv	92
5) Vinyl Chloride	1.589	62	18283	1.846	ppbv	96
6) Bromomethane	1.677	94	9801	2.310	ppbv	94
7) Chloroethane	1.712	64	7947	2.084	ppbv	98
8) Dichlorotetrafluoroethane	1.560	85	44848	2.176	ppbv	100
9) Propene	1.489	41	24915	3.136	ppbv	100
10) Heptane	5.011	43	66122	3.369	ppbv	93
11) Trichlorofluoromethane	1.887	101	52216	2.150	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.153	101	41991	2.322	ppbv	94
13) Ethanol	1.729	45	1802m	1.994	ppbv	
14) Bromoethene	1.790	108	15205	2.568	ppbv	97
15) Acetone	1.845	43	52918	1.975	ppbv	90
16) 1,3-Butadiene	1.615	39	20658	1.966	ppbv	88
17) tert-Butyl alcohol	2.052	59	58092	2.502	ppbv #	94
18) 1,1-Dichloroethene	2.046	96	18153	2.397	ppbv	84
19) Isopropyl Alcohol	1.897	45	26028	2.069	ppbv #	96
20) Methylene Chloride	2.072	84	17135	2.237	ppbv	83
21) Allyl Chloride	2.107	41	32414	2.348	ppbv	91
22) trans-1,2-Dichloroethene	2.353	96	21862	2.583	ppbv	94
23) Vinyl Acetate	2.476	43	30926	3.598	ppbv #	95
24) 1,1-Dichloroethane	2.424	63	40950	2.211	ppbv	99
25) Ethyl Acetate	2.855	43	126167	2.807	ppbv #	96
26) Hexane	2.842	57	52287	3.352	ppbv	87
27) Carbon Disulfide	2.162	76	50347	3.401	ppbv	95
28) Methyl tert-Butyl Ether	2.457	73	43777	3.724	ppbv	99
29) Chloroform	2.865	83	74846	2.583	ppbv	97
30) Cyclohexane	3.878	84	46542	3.933	ppbv #	85
31) cis-1,2-Dichloroethene	2.738	61	50096	3.120	ppbv	98
32) 1,1,1-Trichloroethane	3.389	97	72210	2.750	ppbv	93
34) 2-Butanone	2.573	43	78681	2.267	ppbv	98
35) Carbon Tetrachloride	3.790	117	69223	2.079	ppbv	90
36) Benzene	3.680	78	106654	2.534	ppbv	96
37) 1,2-Dichloroethane	3.240	62	54776	1.980	ppbv #	95
38) Trichloroethene	4.574	130	41427	2.511	ppbv	92
39) 1,2-Dichloropropane	4.347	63	37604m	2.310	ppbv	
40) 1,4-Dioxane	4.629	88	18864	2.990	ppbv #	50
41) Tetrahydrofuran	3.078	42	44570	2.724	ppbv	90
42) Bromodichloromethane	4.515	83	75424	2.324	ppbv	99
43) Methyl Methacrylate	4.920	69	42157m	3.190	ppbv	
44) 2,2,4-Trimethylpentane	4.674	57	180117	2.597	ppbv	92
45) t-1,3-Dichloropropene	6.454	75	43372	3.361	ppbv	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
 Data File : VL041860.D
 Acq On : 09 Jan 2025 11:52
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 01/10/2025
 Supervised By :Semsettin Yesilyurt 01/10/2025

Quant Time: Jan 09 12:25:14 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Wed Jan 08 03:26:12 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.635	75	55051	3.243	ppbv	95
47) 1,1,2-Trichloroethane	6.622	97	39391m	2.287	ppbv	
48) Dibromochloromethane	7.419	129	61313	2.797	ppbv	100
49) Bromoform	9.506	173	53734	3.059	ppbv	99
50) 4-Methyl-2-Pentanone	5.797	43	108191	2.698	ppbv	91
51) 2-Hexanone	7.470	43	90844	2.991	ppbv #	86
52) Tetrachloroethene	8.250	164	37701	3.020	ppbv	92
53) Toluene	6.969	91	125295	3.341	ppbv	98
54) 1,2-Dibromoethane	7.681	107	54562	2.587	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.946	131	51252	2.240	ppbv	98
57) Chlorobenzene	8.946	112	94006	2.242	ppbv	97
58) Ethyl Benzene	9.377	91	177814	3.250	ppbv	99
59) m/p-Xylene	9.571	91	278550m	5.768	ppbv	
60) o-Xylene	9.985	91	138722	2.953	ppbv	99
61) Styrene	9.891	104	68864	3.779	ppbv	97
62) Isopropylbenzene	10.558	105	212705	2.882	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.985	83	82870	2.012	ppbv	99
64) n-propylbenzene	11.008	120	54888	2.899	ppbv	100
65) tert-Butylbenzene	11.549	119	196649	2.957	ppbv	95
66) Benzyl Chloride	11.636	91	20300	3.652	ppbv	95
67) sec-Butylbenzene	11.785	105	270495	2.787	ppbv	100
69) p-Isopropyltoluene	11.943	119	229731	3.015	ppbv	97
70) n-Butylbenzene	12.299	91	230497	3.011	ppbv	98
71) 2-Chlorotoluene	10.921	91	161864	3.021	ppbv	99
72) 4-Ethyltoluene	11.144	105	175142	3.083	ppbv	98
73) 1,3,5-Trimethylbenzene	11.222	105	146927	2.953	ppbv	99
74) 1,2,4-Trimethylbenzene	11.555	105	163980	2.845	ppbv	98
75) 1,3-Dichlorobenzene	11.626	146	95654	2.480	ppbv	98
76) 1,4-Dichlorobenzene	11.691	146	95164	2.564	ppbv	97
77) 1,2-Dichlorobenzene	11.966	146	90047	2.240	ppbv	98
78) Hexachloro-1,3-Butadiene	13.898	225	81017	2.839	ppbv	98
79) Naphthalene	13.529	128	181703	4.280	ppbv	99
80) Naphthalene,2-methyl-	14.474	142	107237	6.825	ppbv	98
81) 1,2,4-Trichlorobenzene	13.458	180	86805	3.689	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
 Data File : VL041861.D
 Acq On : 09 Jan 2025 12:22
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 01/10/2025
 Supervised By :Semsettin Yesilyurt 01/10/2025

Quant Time: Jan 09 13:30:32 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Wed Jan 08 03:26:12 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.803	49	143443	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.981	114	434494	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.904	117	394905	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.393 95 317281 9.381 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 93.800%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.505	85	25040	1.064	ppbv	98
3) Chlorodifluoromethane	1.483	51	26900	1.196	ppbv	99
4) Chloromethane	1.541	50	9681	1.000	ppbv	90
5) Vinyl Chloride	1.586	62	9371	0.960	ppbv	97
6) Bromomethane	1.674	94	4513	1.079	ppbv	97
7) Chloroethane	1.712	64	4049	1.077	ppbv	97
8) Dichlorotetrafluoroethane	1.560	85	20696	1.019	ppbv	93
9) Propene	1.489	41	13149	1.680	ppbv	93
10) Heptane	5.011	43	33313	1.722	ppbv	99
11) Trichlorofluoromethane	1.887	101	24866	1.039	ppbv	95
12) 1,1,2-Trichlorotrifluo...	2.153	101	20153	1.131	ppbv	91
13) Ethanol	1.729	45	857m	0.962	ppbv	
14) Bromoethene	1.790	108	6917	1.185	ppbv #	85
15) Acetone	1.845	43	28258	1.070	ppbv #	86
16) 1,3-Butadiene	1.615	39	10650	1.028	ppbv	95
17) tert-Butyl alcohol	2.052	59	29021	1.268	ppbv #	92
18) 1,1-Dichloroethene	2.046	96	9481	1.270	ppbv	80
19) Isopropyl Alcohol	1.897	45	13968	1.127	ppbv #	97
20) Methylene Chloride	2.072	84	9326	1.235	ppbv	89
21) Allyl Chloride	2.107	41	16109	1.184	ppbv	98
22) trans-1,2-Dichloroethene	2.353	96	11020m	1.321	ppbv	
23) Vinyl Acetate	2.473	43	11666	1.377	ppbv #	95
24) 1,1-Dichloroethane	2.421	63	20750	1.137	ppbv #	94
25) Ethyl Acetate	2.855	43	62927	1.421	ppbv #	96
26) Hexane	2.842	57	25792	1.678	ppbv	89
27) Carbon Disulfide	2.162	76	24132	1.654	ppbv #	53
28) Methyl tert-Butyl Ether	2.457	73	19330	1.669	ppbv	99
29) Chloroform	2.865	83	36445	1.276	ppbv	100
30) Cyclohexane	3.881	84	21797	1.869	ppbv	92
31) cis-1,2-Dichloroethene	2.735	61	25721	1.626	ppbv	98
32) 1,1,1-Trichloroethane	3.389	97	34347	1.327	ppbv	95
34) 2-Butanone	2.573	43	37395	1.093	ppbv	96
35) Carbon Tetrachloride	3.784	117	33087	1.008	ppbv	94
36) Benzene	3.677	78	52621	1.268	ppbv #	91
37) 1,2-Dichloroethane	3.237	62	26348	0.966	ppbv #	93
38) Trichloroethene	4.577	130	20492	1.259	ppbv	97
39) 1,2-Dichloropropane	4.341	63	18342	1.142	ppbv #	78
40) 1,4-Dioxane	4.622	88	9193m	1.478	ppbv	
41) Tetrahydrofuran	3.082	42	21802	1.351	ppbv	89
42) Bromodichloromethane	4.515	83	37075	1.159	ppbv #	90
43) Methyl Methacrylate	4.913	69	20990	1.610	ppbv	93
44) 2,2,4-Trimethylpentane	4.671	57	89035	1.302	ppbv	92
45) t-1,3-Dichloropropene	6.448	75	21319m	1.675	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
 Data File : VL041861.D
 Acq On : 09 Jan 2025 12:22
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 01/10/2025
 Supervised By :Semsettin Yesilyurt 01/10/2025

Quant Time: Jan 09 13:30:32 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Wed Jan 08 03:26:12 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.635	75	27792m	1.660	ppbv	
47) 1,1,2-Trichloroethane	6.619	97	19621	1.155	ppbv	97
48) Dibromochloromethane	7.412	129	27553m	1.275	ppbv	
49) Bromoform	9.503	173	24569	1.418	ppbv	99
50) 4-Methyl-2-Pentanone	5.800	43	53757m	1.359	ppbv	
51) 2-Hexanone	7.470	43	43139m	1.440	ppbv	
52) Tetrachloroethene	8.250	164	18665	1.516	ppbv	91
53) Toluene	6.962	91	62304	1.685	ppbv	99
54) 1,2-Dibromoethane	7.678	107	26769	1.287	ppbv	89
56) 1,1,1,2-Tetrachloroethane	8.946	131	24293	1.079	ppbv #	91
57) Chlorobenzene	8.946	112	47288	1.146	ppbv	92
58) Ethyl Benzene	9.377	91	84795	1.575	ppbv	99
59) m/p-Xylene	9.552	91	135481m	2.852	ppbv	
60) o-Xylene	9.982	91	67480	1.460	ppbv	100
61) Styrene	9.891	104	32180	1.795	ppbv	99
62) Isopropylbenzene	10.558	105	101824	1.402	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.985	83	39140	0.966	ppbv	96
64) n-propylbenzene	11.008	120	26642	1.430	ppbv	99
65) tert-Butylbenzene	11.549	119	95303	1.457	ppbv	95
66) Benzyl Chloride	11.633	91	9179	1.679	ppbv #	91
67) sec-Butylbenzene	11.785	105	130334	1.365	ppbv	98
69) p-Isopropyltoluene	11.943	119	112256	1.498	ppbv	98
70) n-Butylbenzene	12.299	91	111884	1.486	ppbv	99
71) 2-Chlorotoluene	10.917	91	79598	1.510	ppbv	99
72) 4-Ethyltoluene	11.141	105	84096	1.505	ppbv	99
73) 1,3,5-Trimethylbenzene	11.222	105	71812	1.467	ppbv	98
74) 1,2,4-Trimethylbenzene	11.552	105	79018	1.394	ppbv #	92
75) 1,3-Dichlorobenzene	11.623	146	46462	1.224	ppbv	99
76) 1,4-Dichlorobenzene	11.688	146	45316	1.241	ppbv	99
77) 1,2-Dichlorobenzene	11.963	146	44103	1.115	ppbv	98
78) Hexachloro-1,3-Butadiene	13.898	225	40100	1.428	ppbv	98
79) Naphthalene	13.529	128	86398	2.069	ppbv	99
80) Naphthalene,2-methyl-	14.474	142	49807	3.222	ppbv	96
81) 1,2,4-Trichlorobenzene	13.455	180	42679	1.844	ppbv	99

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

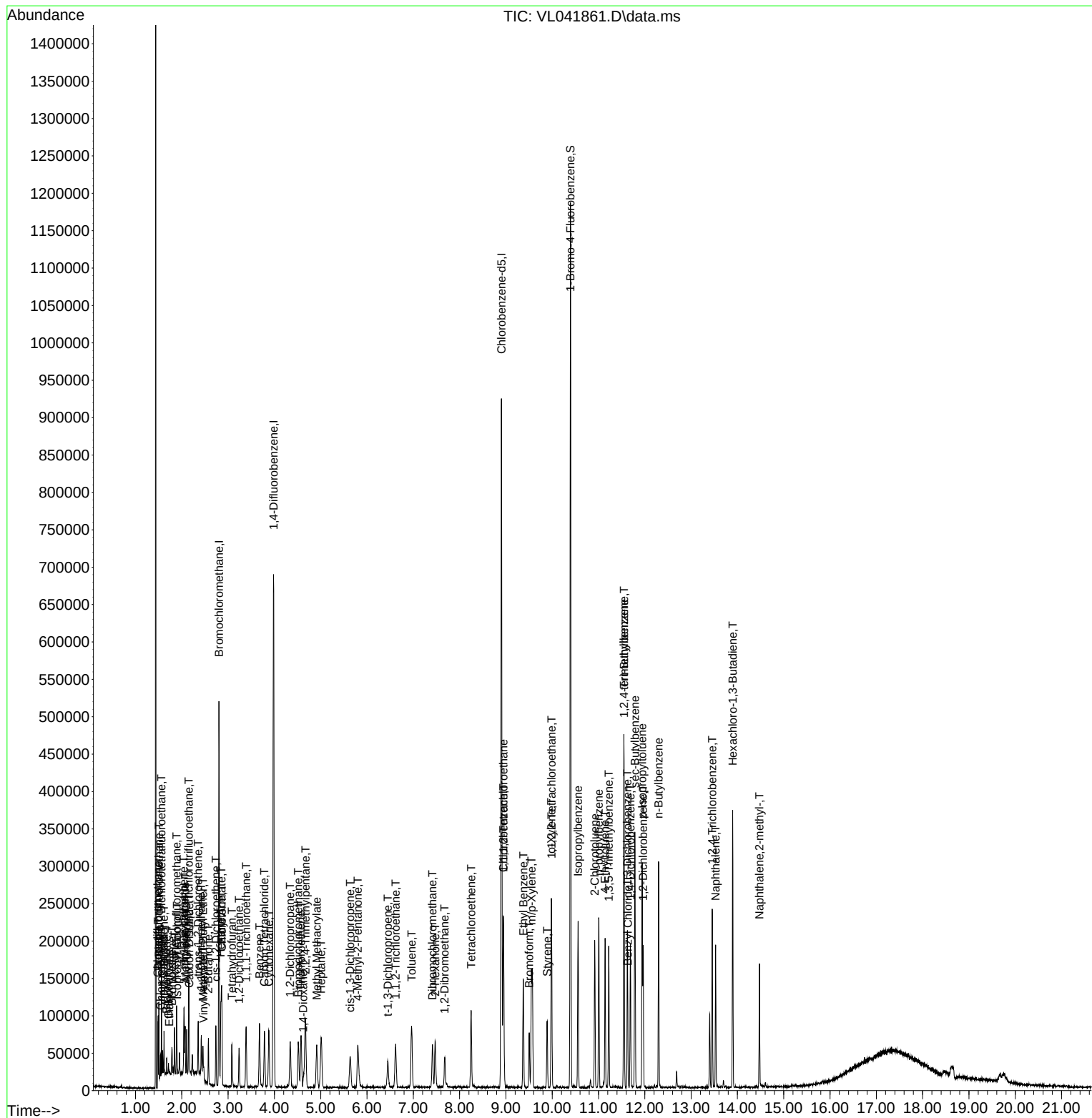
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
 Data File : VL041861.D
 Acq On : 09 Jan 2025 12:22
 Operator : SY/MD
 Sample : VSTDIC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 01/10/2025
 Supervised By :Semsettin Yesilyurt 01/10/2025

Quant Time: Jan 09 13:30:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
 QLast Update : Wed Jan 08 03:26:12 2025
 Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
 Data File : VL041862.D
 Acq On : 09 Jan 2025 12:53
 Operator : SY/MD
 Sample : VSTDIC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 01/10/2025
 Supervised By :Semsettin Yesilyurt 01/10/2025

Quant Time: Jan 09 13:33:10 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Wed Jan 08 03:26:12 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.803	49	143127	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.985	114	429322	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.904	117	397287	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.396 95 320213 9.411 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 94.100%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.505	85	12809	0.545	ppbv	97
3) Chlorodifluoromethane	1.483	51	14172	0.632	ppbv	98
4) Chloromethane	1.541	50	4728	0.490	ppbv #	79
5) Vinyl Chloride	1.589	62	4803	0.493	ppbv	97
6) Bromomethane	1.674	94	2791	0.669	ppbv #	81
7) Chloroethane	1.716	64	2059	0.549	ppbv	94
8) Dichlorotetrafluoroethane	1.564	85	10699	0.528	ppbv	93
9) Propene	1.489	41	6731	0.862	ppbv	90
10) Heptane	5.011	43	17661m	0.915	ppbv	
11) Trichlorofluoromethane	1.887	101	13013	0.545	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.153	101	10592	0.596	ppbv	90
13) Ethanol	1.732	45	533m	0.600	ppbv	
14) Bromoethene	1.790	108	3822	0.656	ppbv #	90
15) Acetone	1.848	43	15259	0.579	ppbv #	83
16) 1,3-Butadiene	1.619	39	7024	0.680	ppbv	98
17) tert-Butyl alcohol	2.056	59	14992	0.657	ppbv #	93
18) 1,1-Dichloroethene	2.046	96	4883	0.656	ppbv #	88
19) Isopropyl Alcohol	1.900	45	7509	0.607	ppbv #	95
20) Methylene Chloride	2.075	84	4849	0.644	ppbv	96
21) Allyl Chloride	2.107	41	8675	0.639	ppbv #	91
22) trans-1,2-Dichloroethene	2.357	96	5632	0.677	ppbv	83
23) Vinyl Acetate	2.473	43	5348m	0.633	ppbv	
24) 1,1-Dichloroethane	2.421	63	10611	0.583	ppbv	98
25) Ethyl Acetate	2.855	43	31455	0.712	ppbv #	97
26) Hexane	2.845	57	13451	0.877	ppbv	86
27) Carbon Disulfide	2.162	76	12466	0.856	ppbv #	62
28) Methyl tert-Butyl Ether	2.460	73	10251	0.887	ppbv #	79
29) Chloroform	2.865	83	18316	0.643	ppbv	93
30) Cyclohexane	3.884	84	11047m	0.949	ppbv	
31) cis-1,2-Dichloroethene	2.735	61	13045	0.826	ppbv	90
32) 1,1,1-Trichloroethane	3.389	97	17819	0.690	ppbv	95
34) 2-Butanone	2.577	43	19019	0.562	ppbv	96
35) Carbon Tetrachloride	3.787	117	15737	0.485	ppbv	96
36) Benzene	3.680	78	25621	0.625	ppbv #	92
37) 1,2-Dichloroethane	3.237	62	14429	0.535	ppbv #	90
38) Trichloroethene	4.577	130	10721m	0.667	ppbv	
39) 1,2-Dichloropropane	4.350	63	9384m	0.591	ppbv	
40) 1,4-Dioxane	4.638	88	4958m	0.806	ppbv	
41) Tetrahydrofuran	3.085	42	11404	0.715	ppbv #	92
42) Bromodichloromethane	4.525	83	18000	0.569	ppbv #	97
43) Methyl Methacrylate	4.923	69	10965m	0.851	ppbv	
44) 2,2,4-Trimethylpentane	4.668	57	44153m	0.653	ppbv	
45) t-1,3-Dichloropropene	6.451	75	10609	0.844	ppbv #	88

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
 Data File : VL041862.D
 Acq On : 09 Jan 2025 12:53
 Operator : SY/MD
 Sample : VSTDIC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 01/10/2025
 Supervised By :Semsettin Yesilyurt 01/10/2025

Quant Time: Jan 09 13:33:10 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Wed Jan 08 03:26:12 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.642	75	13758	0.832	ppbv	89
47) 1,1,2-Trichloroethane	6.626	97	9885m	0.589	ppbv	
48) Dibromochloromethane	7.419	129	13671	0.640	ppbv	99
49) Bromoform	9.510	173	11202	0.654	ppbv	98
50) 4-Methyl-2-Pentanone	5.810	43	26751m	0.685	ppbv	
51) 2-Hexanone	7.480	43	22189	0.750	ppbv #	90
52) Tetrachloroethene	8.254	164	9543	0.785	ppbv #	88
53) Toluene	6.966	91	30969	0.847	ppbv	98
54) 1,2-Dibromoethane	7.684	107	13281	0.646	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.950	131	12299	0.543	ppbv	92
57) Chlorobenzene	8.946	112	23264	0.560	ppbv #	95
58) Ethyl Benzene	9.380	91	41863	0.773	ppbv	90
59) m/p-Xylene	9.555	91	66716m	1.396	ppbv	
60) o-Xylene	9.985	91	34021	0.732	ppbv	99
61) Styrene	9.891	104	16798	0.931	ppbv	99
62) Isopropylbenzene	10.558	105	50575	0.692	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.985	83	20172	0.495	ppbv	97
64) n-propylbenzene	11.008	120	13351	0.712	ppbv	96
65) tert-Butylbenzene	11.552	119	46079	0.700	ppbv	97
66) Benzyl Chloride	11.633	91	4858	0.883	ppbv	99
67) sec-Butylbenzene	11.788	105	65001	0.677	ppbv	96
69) p-Isopropyltoluene	11.944	119	53789	0.713	ppbv	99
70) n-Butylbenzene	12.300	91	55556	0.733	ppbv	99
71) 2-Chlorotoluene	10.921	91	40116	0.757	ppbv	99
72) 4-Ethyltoluene	11.144	105	40352	0.718	ppbv	99
73) 1,3,5-Trimethylbenzene	11.222	105	34365	0.698	ppbv	92
74) 1,2,4-Trimethylbenzene	11.555	105	37910	0.665	ppbv #	82
75) 1,3-Dichlorobenzene	11.626	146	23642	0.619	ppbv	95
76) 1,4-Dichlorobenzene	11.691	146	23242	0.633	ppbv	98
77) 1,2-Dichlorobenzene	11.966	146	22337	0.561	ppbv	99
78) Hexachloro-1,3-Butadiene	13.902	225	19853	0.703	ppbv	97
79) Naphthalene	13.533	128	42331	1.007	ppbv #	95
80) Naphthalene,2-methyl-	14.478	142	23524	1.513	ppbv	96
81) 1,2,4-Trichlorobenzene	13.458	180	19980	0.858	ppbv	97

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

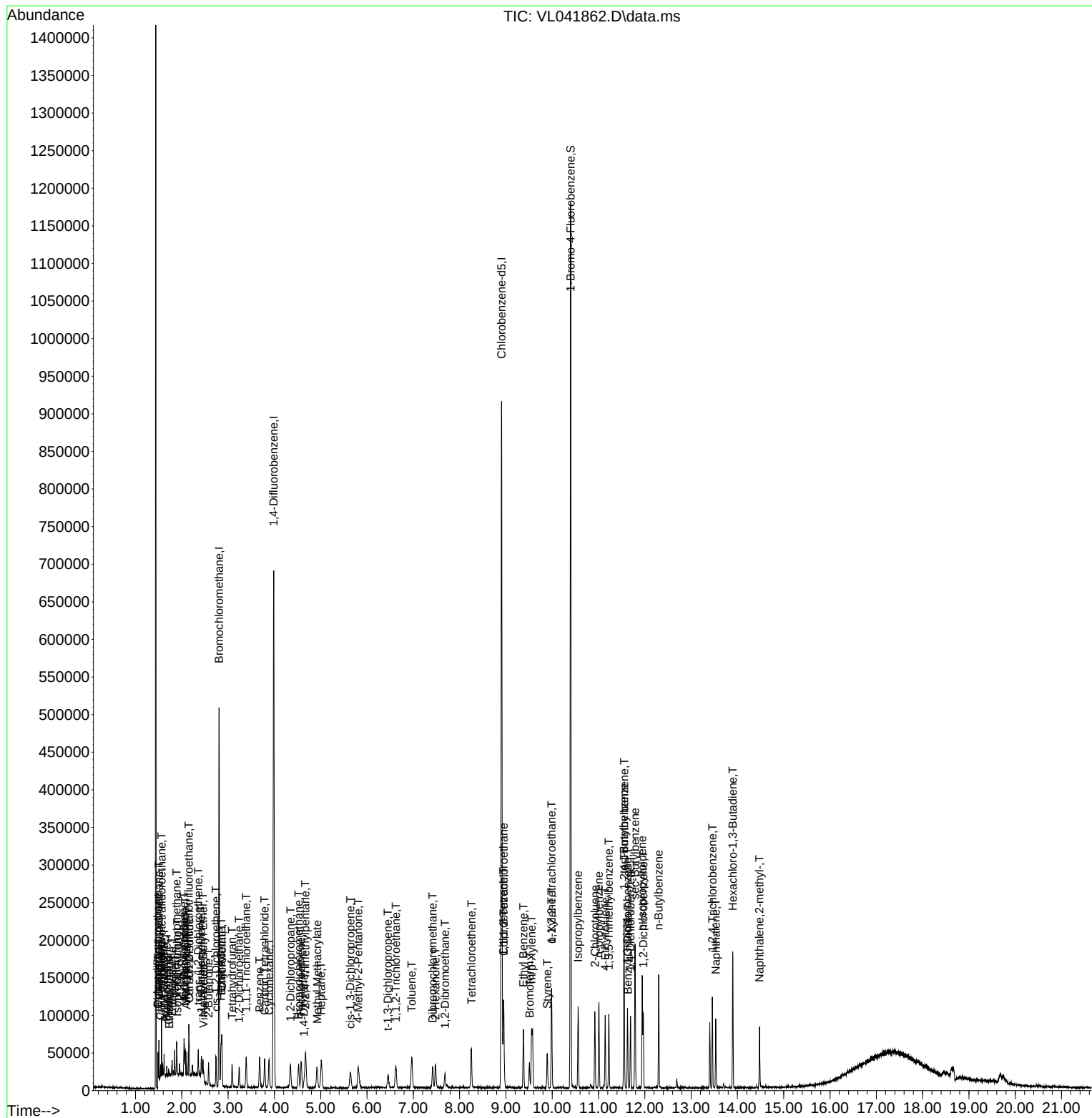
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
Data File : VL041862.D
Acq On : 09 Jan 2025 12:53
Operator : SY/MD
Sample : VSTDIC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 01/10/2025
Supervised By :Semsettin Yesilyurt 01/10/2025

Quant Time: Jan 09 13:33:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Jan 08 03:26:12 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
 Data File : VL041863.D
 Acq On : 09 Jan 2025 13:24
 Operator : SY/MD
 Sample : VSTDICC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.1

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 01/10/2025
 Supervised By :Semsettin Yesilyurt 01/10/2025

Quant Time: Jan 09 14:20:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Thu Jan 09 13:37:17 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.806	49	140029	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.984	114	422202	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.907	117	386905	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.399	95	308324	9.304	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.000%
Target Compounds						
						Qvalue
5) Vinyl Chloride	1.589	62	1043	0.109	ppbv	97
32) 1,1,1-Trichloroethane	3.395	97	3510m	0.139	ppbv	
35) Carbon Tetrachloride	3.793	117	3101m	0.097	ppbv	
38) Trichloroethene	4.580	130	2096m	0.133	ppbv	
52) Tetrachloroethene	8.247	164	2108m	0.176	ppbv	
54) 1,2-Dibromoethane	7.684	107	2320m	0.115	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.992	83	4264	0.107	ppbv	96
79) Naphthalene	13.532	128	8145	0.199	ppbv	100

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

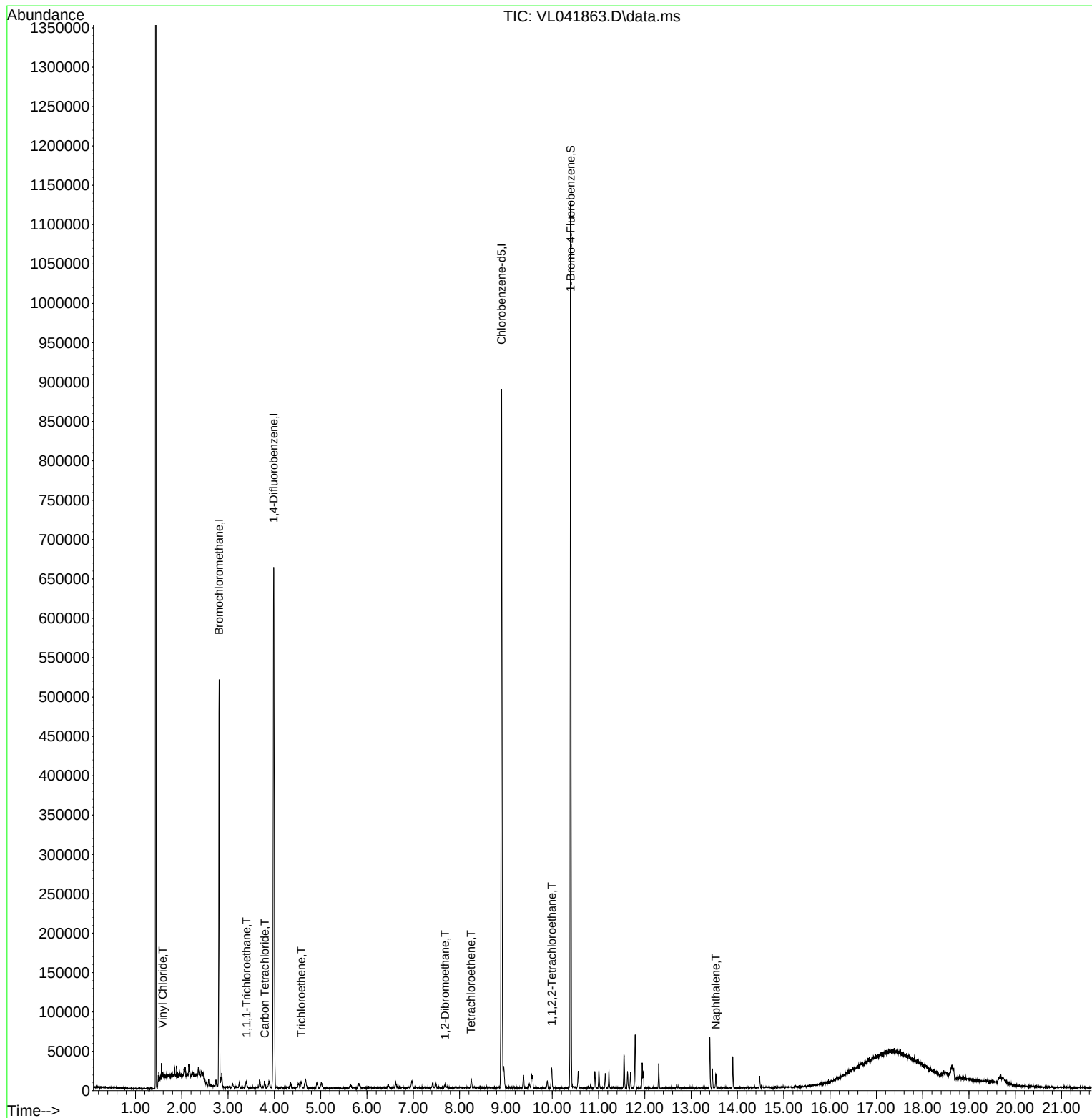
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
Data File : VL041863.D
Acq On : 09 Jan 2025 13:24
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 01/10/2025
Supervised By :Semsettin Yesilyurt 01/10/2025

Quant Time: Jan 09 14:20:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Jan 09 13:37:17 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
 Data File : VL041864.D
 Acq On : 09 Jan 2025 13:54
 Operator : SY/MD
 Sample : VSTDICC0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 01/10/2025
 Supervised By :Semsettin Yesilyurt 01/10/2025

Quant Time: Jan 09 14:27:50 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Thu Jan 09 13:37:17 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.800	49	140652	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.982	114	417764	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.901	117	382336	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	308087	9.408	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.100%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.590	62	375	0.039	ppbv #	86
32) 1,1,1-Trichloroethane	3.389	97	1032m	0.041	ppbv	
35) Carbon Tetrachloride	3.791	117	1177m	0.037	ppbv	
38) Trichloroethene	4.580	130	518m	0.033	ppbv	
52) Tetrachloroethene	8.251	164	686	0.058	ppbv #	49
63) 1,1,2,2-Tetrachloroethane	9.979	83	1052	0.027	ppbv #	78

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

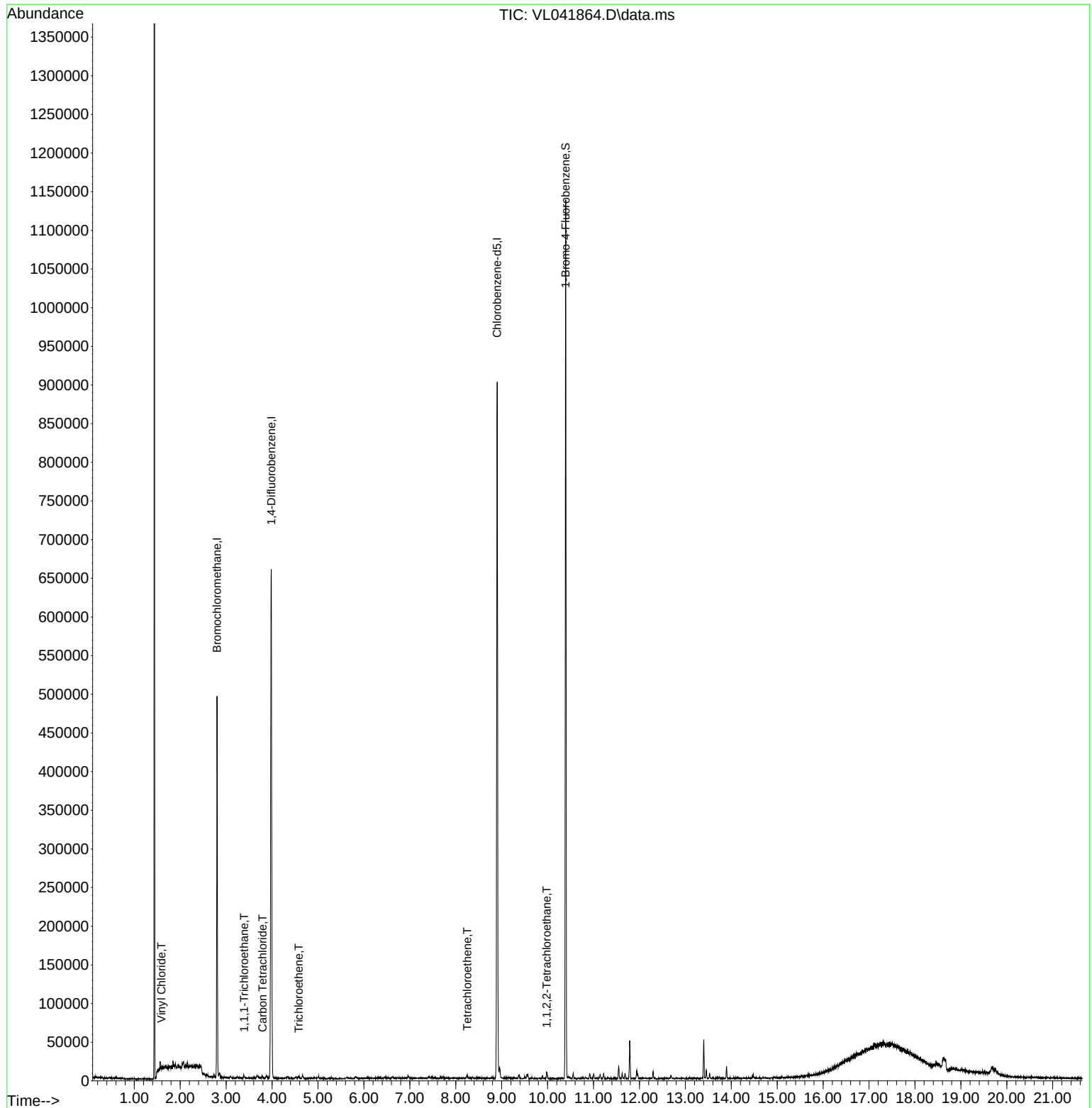
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
Data File : VL041864.D
Acq On : 09 Jan 2025 13:54
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 01/10/2025
Supervised By :Semsettin Yesilyurt 01/10/2025

Quant Time: Jan 09 14:27:50 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jan 09 13:37:17 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
 Data File : VL041865.D
 Acq On : 09 Jan 2025 14:27
 Operator : SY/MD
 Sample : VSTDICC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC015

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 01/10/2025
 Supervised By :Semsettin Yesilyurt 01/10/2025

Quant Time: Jan 09 14:50:25 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Thu Jan 09 13:37:17 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.800	49	137279	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.981	114	407583	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.904	117	378604	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.393 95 299372 9.232 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 92.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.505	85	313199	13.904	ppbv	97
3) Chlorodifluoromethane	1.483	51	337217	15.668	ppbv	100
4) Chloromethane	1.538	50	123832	13.369	ppbv	97
5) Vinyl Chloride	1.586	62	121286	12.983	ppbv	100
6) Bromomethane	1.674	94	60238	15.053	ppbv	100
7) Chloroethane	1.713	64	50126	13.938	ppbv	99
8) Dichlorotetrafluoroethane	1.560	85	278524	14.332	ppbv	94
9) Propene	1.489	41	153753	20.521	ppbv	97
10) Heptane	5.007	43	414222	22.380	ppbv	95
11) Trichlorofluoromethane	1.887	101	330865	14.446	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.149	101	265740	15.579	ppbv	93
13) Ethanol	1.729	45	7417m	8.701	ppbv	
14) Bromoethene	1.790	108	96283	17.241	ppbv #	97
15) Acetone	1.842	43	266190	10.532	ppbv	95
16) 1,3-Butadiene	1.615	39	126652	12.779	ppbv	92
17) tert-Butyl alcohol	2.049	59	359488	16.415	ppbv	99
18) 1,1-Dichloroethene	2.043	96	119220	16.693	ppbv	89
19) Isopropyl Alcohol	1.894	45	160227	13.505	ppbv #	1
20) Methylene Chloride	2.072	84	99639	13.790	ppbv	86
21) Allyl Chloride	2.107	41	206645	15.872	ppbv	90
22) trans-1,2-Dichloroethene	2.353	96	135232	16.942	ppbv	91
23) Vinyl Acetate	2.476	43	172469	21.278	ppbv #	93
24) 1,1-Dichloroethane	2.421	63	258532	14.799	ppbv	98
25) Ethyl Acetate	2.852	43	804978	18.993	ppbv	98
26) Hexane	2.842	57	323683	22.004	ppbv	88
27) Carbon Disulfide	2.162	76	327476	23.457	ppbv #	91
28) Methyl tert-Butyl Ether	2.454	73	238377	21.502	ppbv	98
29) Chloroform	2.865	83	453699	16.603	ppbv	97
30) Cyclohexane	3.878	84	283640	25.414	ppbv	89
31) cis-1,2-Dichloroethene	2.735	61	319115	21.076	ppbv	95
32) 1,1,1-Trichloroethane	3.389	97	467121	18.862	ppbv	94
34) 2-Butanone	2.570	43	467080	14.548	ppbv	96
35) Carbon Tetrachloride	3.784	117	460791	14.959	ppbv	93
36) Benzene	3.677	78	663984	17.053	ppbv	95
37) 1,2-Dichloroethane	3.237	62	353759	13.820	ppbv #	96
38) Trichloroethene	4.577	130	262977	17.230	ppbv	97
39) 1,2-Dichloropropane	4.341	63	238460	15.832	ppbv #	84
40) 1,4-Dioxane	4.609	88	117449	20.124	ppbv #	84
41) Tetrahydrofuran	3.072	42	273858	18.096	ppbv	92
42) Bromodichloromethane	4.515	83	507098	16.892	ppbv	100
43) Methyl Methacrylate	4.910	69	276446	22.609	ppbv	89
44) 2,2,4-Trimethylpentane	4.668	57	1112501	17.341	ppbv	93
45) t-1,3-Dichloropropene	6.448	75	290137	24.306	ppbv	91

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
 Data File : VL041865.D
 Acq On : 09 Jan 2025 14:27
 Operator : SY/MD
 Sample : VSTDIC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 01/10/2025
 Supervised By :Semsettin Yesilyurt 01/10/2025

Quant Time: Jan 09 14:50:25 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Thu Jan 09 13:37:17 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.635	75	370479	23.592	ppbv #	85
47) 1,1,2-Trichloroethane	6.616	97	252224	15.833	ppbv	96
48) Dibromochloromethane	7.412	129	408959	20.167	ppbv	99
49) Bromoform	9.503	173	362905	22.331	ppbv	99
50) 4-Methyl-2-Pentanone	5.787	43	680330	18.341	ppbv	92
51) 2-Hexanone	7.461	43	557793	19.852	ppbv #	87
52) Tetrachloroethene	8.247	164	233663	20.236	ppbv	97
53) Toluene	6.966	91	796461	22.957	ppbv	99
54) 1,2-Dibromoethane	7.678	107	353045	18.098	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.946	131	318489	14.760	ppbv	99
57) Chlorobenzene	8.943	112	578775	14.632	ppbv	100
58) Ethyl Benzene	9.377	91	1081235	20.954	ppbv	100
59) m/p-Xylene	9.574	91	1713669m	37.624	ppbv	
60) o-Xylene	9.985	91	840494	18.971	ppbv	99
61) Styrene	9.892	104	431280	25.091	ppbv	98
62) Isopropylbenzene	10.558	105	1247161	17.917	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.982	83	496124	12.770	ppbv	100
64) n-propylbenzene	11.008	120	326937	18.307	ppbv	90
65) tert-Butylbenzene	11.549	119	1082296	17.255	ppbv	97
66) Benzyl Chloride	11.633	91	113138	21.582	ppbv	96
67) sec-Butylbenzene	11.785	105	1472665	16.090	ppbv	97
69) p-Isopropyltoluene	11.944	119	1277666	17.781	ppbv	98
70) n-Butylbenzene	12.300	91	1262477	17.488	ppbv	95
71) 2-Chlorotoluene	10.921	91	958596	18.973	ppbv	100
72) 4-Ethyltoluene	11.144	105	1009262	18.837	ppbv	98
73) 1,3,5-Trimethylbenzene	11.222	105	866209	18.459	ppbv	96
74) 1,2,4-Trimethylbenzene	11.555	105	905561	16.660	ppbv	92
75) 1,3-Dichlorobenzene	11.626	146	550141	15.122	ppbv	98
76) 1,4-Dichlorobenzene	11.688	146	550306	15.719	ppbv	98
77) 1,2-Dichlorobenzene	11.966	146	519421	13.701	ppbv	99
78) Hexachloro-1,3-Butadiene	13.898	225	411642	15.294	ppbv	99
79) Naphthalene	13.529	128	896443	22.388	ppbv	98
80) Naphthalene,2-methyl-	14.475	142	442992	29.892	ppbv	98
81) 1,2,4-Trichlorobenzene	13.458	180	436412	19.665	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
 Data File : VL041866.D
 Acq On : 09 Jan 2025 15:15
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL010925

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 01/10/2025
 Supervised By :Semsettin Yesilyurt 01/10/2025

Quant Time: Jan 09 15:38:18 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Thu Jan 09 15:10:07 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.800	49	133443	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.978	114	399044	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.901	117	363459	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.393 95 291470 10.001 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.000%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	213962	9.767	ppbv	99
3) Chlorodifluoromethane	1.479	51	225635	9.377	ppbv	100
4) Chloromethane	1.538	50	80251	9.424	ppbv	97
5) Vinyl Chloride	1.586	62	79865	8.819	ppbv	99
6) Bromomethane	1.674	94	37306	8.740	ppbv	98
7) Chloroethane	1.709	64	31703	9.031	ppbv	100
8) Dichlorotetrafluoroethane	1.560	85	181663	9.538	ppbv	94
9) Propene	1.489	41	99446	8.857	ppbv	99
10) Heptane	5.004	43	273051	9.222	ppbv	95
11) Trichlorofluoromethane	1.884	101	215460	9.569	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.149	101	171593	9.420	ppbv	92
13) Ethanol	1.729	45	5044m	7.073	ppbv	
14) Bromoethene	1.787	108	61700	9.463	ppbv	97
15) Acetone	1.842	43	172416	7.661	ppbv	94
16) 1,3-Butadiene	1.615	39	83662	8.654	ppbv	93
17) tert-Butyl alcohol	2.049	59	246893	9.669	ppbv	100
18) 1,1-Dichloroethene	2.043	96	79001	9.584	ppbv	81
19) Isopropyl Alcohol	1.894	45	103696	8.766	ppbv #	1
20) Methylene Chloride	2.069	84	65389	8.517	ppbv	91
21) Allyl Chloride	2.104	41	131366	9.122	ppbv	93
22) trans-1,2-Dichloroethene	2.350	96	87967	9.216	ppbv	92
23) Vinyl Acetate	2.473	43	107320	9.411	ppbv #	93
24) 1,1-Dichloroethane	2.418	63	167453	9.264	ppbv	99
25) Ethyl Acetate	2.849	43	537722	9.615	ppbv	99
26) Hexane	2.839	57	213717	9.290	ppbv	89
27) Carbon Disulfide	2.159	76	211082	9.579	ppbv #	88
28) Methyl tert-Butyl Ether	2.454	73	150727	8.585	ppbv	99
29) Chloroform	2.861	83	302132	9.385	ppbv	98
30) Cyclohexane	3.878	84	187848	9.508	ppbv #	88
31) cis-1,2-Dichloroethene	2.732	61	215939	9.604	ppbv	97
32) 1,1,1-Trichloroethane	3.383	97	308704	9.654	ppbv	95
34) 2-Butanone	2.567	43	305484	9.209	ppbv	97
35) Carbon Tetrachloride	3.781	117	302110	9.742	ppbv	97
36) Benzene	3.674	78	448544	9.689	ppbv	96
37) 1,2-Dichloroethane	3.234	62	233663	9.621	ppbv #	96
38) Trichloroethene	4.570	130	171695	9.393	ppbv	96
39) 1,2-Dichloropropane	4.334	63	157431	9.560	ppbv #	85
40) 1,4-Dioxane	4.606	88	74011	8.937	ppbv #	76
41) Tetrahydrofuran	3.069	42	181706	9.327	ppbv	92
42) Bromodichloromethane	4.512	83	329142	9.864	ppbv	97
43) Methyl Methacrylate	4.907	69	179603	9.474	ppbv	87
44) 2,2,4-Trimethylpentane	4.668	57	741253	9.479	ppbv	93
45) t-1,3-Dichloropropene	6.444	75	182207	9.391	ppbv	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
 Data File : VL041866.D
 Acq On : 09 Jan 2025 15:15
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL010925

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 01/10/2025
 Supervised By :Semsettin Yesilyurt 01/10/2025

Quant Time: Jan 09 15:38:18 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Thu Jan 09 15:10:07 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.632	75	236106	9.483	ppbv	87
47) 1,1,2-Trichloroethane	6.610	97	165331	9.543	ppbv	95
48) Dibromochloromethane	7.409	129	266338	10.137	ppbv	99
49) Bromoform	9.500	173	230376	10.047	ppbv	99
50) 4-Methyl-2-Pentanone	5.784	43	447733	9.458	ppbv	92
51) 2-Hexanone	7.458	43	363718	9.341	ppbv #	89
52) Tetrachloroethene	8.244	164	151399	8.536	ppbv	96
53) Toluene	6.959	91	517284	9.395	ppbv	100
54) 1,2-Dibromoethane	7.674	107	226153	9.598	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.943	131	209474	9.669	ppbv	100
57) Chlorobenzene	8.940	112	383752	9.470	ppbv	97
58) Ethyl Benzene	9.374	91	717041	9.595	ppbv	99
59) m/p-Xylene	9.548	91	1117121m	18.915	ppbv	
60) o-Xylene	9.982	91	555689	9.433	ppbv	99
61) Styrene	9.888	104	276061	9.385	ppbv	98
62) Isopropylbenzene	10.555	105	835024	9.415	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.979	83	327345	9.252	ppbv	100
64) n-propylbenzene	11.002	120	211515	9.153	ppbv	98
65) tert-Butylbenzene	11.545	119	747696	9.315	ppbv	96
66) Benzyl Chloride	11.630	91	68070	8.187	ppbv	95
67) sec-Butylbenzene	11.782	105	1020583	9.228	ppbv	99
69) p-Isopropyltoluene	11.940	119	862841	9.143	ppbv	98
70) n-Butylbenzene	12.296	91	843727	8.907	ppbv	98
71) 2-Chlorotoluene	10.917	91	625951	9.116	ppbv	100
72) 4-Ethyltoluene	11.141	105	668428	9.254	ppbv	99
73) 1,3,5-Trimethylbenzene	11.218	105	572229	9.332	ppbv	99
74) 1,2,4-Trimethylbenzene	11.552	105	607041	9.114	ppbv	91
75) 1,3-Dichlorobenzene	11.623	146	348741	8.734	ppbv	99
76) 1,4-Dichlorobenzene	11.688	146	351167	8.884	ppbv	98
77) 1,2-Dichlorobenzene	11.963	146	336372	8.912	ppbv	99
78) Hexachloro-1,3-Butadiene	13.895	225	247845	7.639	ppbv	99
79) Naphthalene	13.526	128	544143	7.583	ppbv	99
80) Naphthalene,2-methyl-	14.471	142	232206	6.000	ppbv	97
81) 1,2,4-Trichlorobenzene	13.455	180	269501	7.888	ppbv	98

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

Manual Integrations

Reviewed By :Mahesh Dadoda 01/10/2025
Supervised By :Semsettin Yesilyurt 01/10/2025

[illegible]

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
 Data File : VL041866.D
 Acq On : 09 Jan 2025 15:15
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL010925

Quant Time: Jan 09 15:38:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jan 09 15:10:07 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	89	0.00
2 T	Dichlorodifluoromethane	1.642	1.603	2.4	95	0.00
3	Chlorodifluoromethane	1.803	1.691	6.2	91	0.00
4	Chloromethane	0.638	0.601	5.8	94	0.00
5 T	Vinyl Chloride	0.679	0.598	11.9	92	0.00
6 T	Bromomethane	0.320	0.280	12.5	94	0.00
7	Chloroethane	0.263	0.238	9.5	92	0.00
8 T	Dichlorotetrafluoroethane	1.427	1.361	4.6	93	0.00
9 T	Propene	0.841	0.745	11.4	89	0.00
10 T	Heptane	2.219	2.046	7.8	90	0.00
11 T	Trichlorofluoromethane	1.687	1.615	4.3	97	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.365	1.286	5.8	95	0.00
13	Ethanol	0.053	0.038#	28.3	96	0.00
14 T	Bromoethene	0.489	0.462	5.5	94	0.00
15 T	Acetone	1.687	1.292	23.4	94	0.00
16 T	1,3-Butadiene	0.724	0.627	13.4	97	0.00
17	tert-Butyl alcohol	1.914	1.850	3.3	96	0.00
18 T	1,1-Dichloroethene	0.618	0.592	4.2	97	0.00
19 T	Isopropyl Alcohol	0.886	0.777	12.3	94	0.00
20 T	Methylene Chloride	0.575	0.490	14.8	91	0.00
21 T	Allyl Chloride	1.079	0.984	8.8	93	0.00
22 T	trans-1,2-Dichloroethene	0.715	0.659	7.8	96	0.00
23 T	Vinyl Acetate	0.855	0.804	6.0	88	0.00
24 T	1,1-Dichloroethane	1.355	1.255	7.4	94	0.00
25 T	Ethyl Acetate	4.191	4.030	3.8	91	0.00
26 T	Hexane	1.724	1.602	7.1	90	0.00
27 T	Carbon Disulfide	1.651	1.582	4.2	93	0.00
28 T	Methyl tert-Butyl Ether	1.316	1.130	14.1	88	0.00
29 T	Chloroform	2.412	2.264	6.1	92	0.00
30 T	Cyclohexane	1.481	1.408	4.9	92	0.00
31 T	cis-1,2-Dichloroethene	1.685	1.618	4.0	94	0.00
32 T	1,1,1-Trichloroethane	2.396	2.313	3.5	94	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	90	0.00
34 T	2-Butanone	0.831	0.766	7.8	92	0.00
35 T	Carbon Tetrachloride	0.777	0.757	2.6	93	0.00
36 T	Benzene	1.160	1.124	3.1	92	0.00
37 T	1,2-Dichloroethane	0.609	0.586	3.8	93	0.00
38 T	Trichloroethene	0.458	0.430	6.1	91	0.00
39 T	1,2-Dichloropropane	0.413	0.395	4.4	92	0.00
40 T	1,4-Dioxane	0.208	0.185	11.1	88	0.00
41 T	Tetrahydrofuran	0.488	0.455	6.8	90	0.00
42 T	Bromodichloromethane	0.836	0.825	1.3	92	0.00
43	Methyl Methacrylate	0.475	0.450	5.3	90	0.00
44 T	2,2,4-Trimethylpentane	1.960	1.858	5.2	92	0.00
45 T	t-1,3-Dichloropropene	0.486	0.457	6.0	86	0.00
46 T	cis-1,3-Dichloropropene	0.624	0.592	5.1	88	0.00
47 T	1,1,2-Trichloroethane	0.434	0.414	4.6	94	0.00
48 T	Dibromochloromethane	0.658	0.667	-1.4	92	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
 Data File : VL041866.D
 Acq On : 09 Jan 2025 15:15
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL010925

Quant Time: Jan 09 15:38:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jan 09 15:10:07 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	Bromoform	0.575	0.577	-0.3	89	0.00
50 T	4-Methyl-2-Pentanone	1.186	1.122	5.4	91	-0.01
51 T	2-Hexanone	0.976	0.911	6.7	90	0.00
52 T	Tetrachloroethene	0.444	0.379	14.6	90	0.00
53 T	Toluene	1.380	1.296	6.1	90	0.00
54 T	1,2-Dibromoethane	0.590	0.567	3.9	91	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	89	0.00
56	1,1,1,2-Tetrachloroethane	0.596	0.576	3.4	93	0.00
57 T	Chlorobenzene	1.115	1.056	5.3	92	0.00
58 T	Ethyl Benzene	2.056	1.973	4.0	92	0.00
59 T	m/p-Xylene	1.625	1.537	5.4	92	0.00
60 T	o-Xylene	1.621	1.529	5.7	92	0.00
61 T	Styrene	0.809	0.760	6.1	87	0.00
62	Isopropylbenzene	2.440	2.297	5.9	91	0.00
63 T	1,1,2,2-Tetrachloroethane	0.973	0.901	7.4	90	0.00
64	n-propylbenzene	0.636	0.582	8.5	90	0.00
65	tert-Butylbenzene	2.208	2.057	6.8	93	0.00
66 T	Benzyl Chloride	0.229	0.187	18.3	77	0.00
67	sec-Butylbenzene	3.043	2.808	7.7	93	0.00
68 S	1-Bromo-4-Fluorobenzene	0.802	0.802	0.0	89	0.00
69	p-Isopropyltoluene	2.597	2.374	8.6	91	0.00
70	n-Butylbenzene	2.606	2.321	10.9	89	0.00
71	2-Chlorotoluene	1.889	1.722	8.8	89	0.00
72 T	4-Ethyltoluene	1.987	1.839	7.4	90	0.00
73 T	1,3,5-Trimethylbenzene	1.687	1.574	6.7	91	0.00
74 T	1,2,4-Trimethylbenzene	1.833	1.670	8.9	91	0.00
75 T	1,3-Dichlorobenzene	1.099	0.960	12.6	88	0.00
76 T	1,4-Dichlorobenzene	1.088	0.966	11.2	89	0.00
77 T	1,2-Dichlorobenzene	1.039	0.925	11.0	90	0.00
78 T	Hexachloro-1,3-Butadiene	0.893	0.682	23.6	85	0.00
79 T	Naphthalene	1.974	1.497	24.2	84	0.00
80 T	Naphthalene,2-methyl-	1.065	0.639	40.0#	74	0.00
81 T	1,2,4-Trichlorobenzene	0.940	0.741	21.2	86	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
 Data File : VL041869.D
 Acq On : 09 Jan 2025 17:01
 Operator : SY/MD
 Sample : VL0109ABL03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0109ABL03

Quant Time: Jan 10 01:41:56 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Jan 10 00:31:30 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.803	49	128032	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.981	114	380928	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.901	117	344690	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	280854	10.162	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.600%

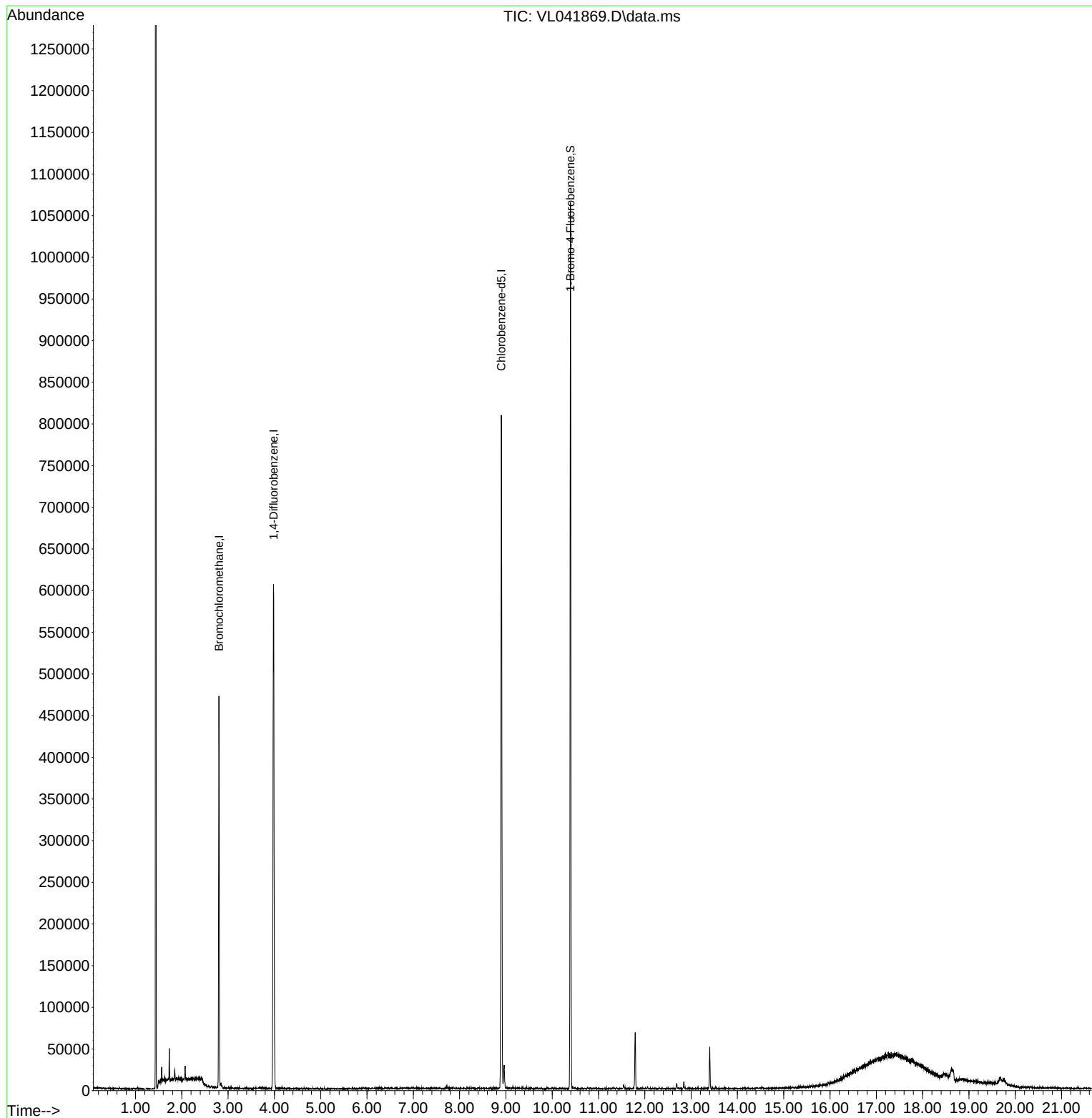
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
Data File : VL041869.D
Acq On : 09 Jan 2025 17:01
Operator : SY/MD
Sample : VL0109ABL03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0109ABL03

Quant Time: Jan 10 01:41:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri Jan 10 00:31:30 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
 Data File : VL041870.D
 Acq On : 09 Jan 2025 17:32
 Operator : SY/MD
 Sample : VL0109ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0109ABS01

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 01/10/2025
 Supervised By :Semsettin Yesilyurt 01/10/2025

Quant Time: Jan 10 01:42:45 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Fri Jan 10 00:31:30 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.803	49	122543	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.981	114	372014	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.904	117	340087	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.393 95 274569 10.069 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.700%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.505	85	214765	10.675	ppbv	99
3) Chlorodifluoromethane	1.483	51	219609	9.938	ppbv	98
4) Chloromethane	1.538	50	79635	10.183	ppbv	99
5) Vinyl Chloride	1.586	62	78642	9.456	ppbv	99
6) Bromomethane	1.674	94	37722	9.624	ppbv	98
7) Chloroethane	1.713	64	32686	10.139	ppbv	100
8) Dichlorotetrafluoroethane	1.560	85	180586	10.325	ppbv	98
9) Propene	1.489	41	97956	9.500	ppbv	100
10) Heptane	5.007	43	265739	9.773	ppbv	99
11) Trichlorofluoromethane	1.887	101	218631	10.573	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.149	101	176361	10.543	ppbv	96
13) Ethanol	1.729	45	6453	9.854	ppbv	95
14) Bromoethene	1.790	108	62928	10.509	ppbv	98
15) Acetone	1.842	43	174247	8.431	ppbv	97
16) 1,3-Butadiene	1.615	39	81413	9.171	ppbv	95
17) tert-Butyl alcohol	2.049	59	244537	10.428	ppbv	98
18) 1,1-Dichloroethene	2.043	96	78665	10.392	ppbv	99
19) Isopropyl Alcohol	1.894	45	102969	9.479	ppbv	99
20) Methylene Chloride	2.072	84	66435	9.423	ppbv	95
21) Allyl Chloride	2.107	41	132275	10.002	ppbv	98
22) trans-1,2-Dichloroethene	2.353	96	87608	9.995	ppbv	98
23) Vinyl Acetate	2.476	43	97489	9.309	ppbv #	98
24) 1,1-Dichloroethane	2.421	63	172510	10.392	ppbv #	98
25) Ethyl Acetate	2.852	43	523764	10.198	ppbv	99
26) Hexane	2.842	57	210453	9.961	ppbv	99
27) Carbon Disulfide	2.162	76	208581	10.307	ppbv	99
28) Methyl tert-Butyl Ether	2.454	73	131707	8.169	ppbv	98
29) Chloroform	2.865	83	302447	10.231	ppbv	96
30) Cyclohexane	3.878	84	180360	9.941	ppbv	98
31) cis-1,2-Dichloroethene	2.735	61	208408	10.094	ppbv	97
32) 1,1,1-Trichloroethane	3.386	97	305295	10.396	ppbv	99
34) 2-Butanone	2.570	43	301434	9.747	ppbv	99
35) Carbon Tetrachloride	3.784	117	300238	10.385	ppbv	98
36) Benzene	3.677	78	433563	10.046	ppbv	98
37) 1,2-Dichloroethane	3.237	62	233267	10.302	ppbv	100
38) Trichloroethene	4.574	130	174343m	10.231	ppbv	
39) 1,2-Dichloropropane	4.337	63	152646	9.943	ppbv	97
40) 1,4-Dioxane	4.613	88	69319	8.979	ppbv #	87
41) Tetrahydrofuran	3.072	42	169639	9.340	ppbv	96
42) Bromodichloromethane	4.515	83	324422	10.429	ppbv	99
43) Methyl Methacrylate	4.907	69	175507	9.930	ppbv	99
44) 2,2,4-Trimethylpentane	4.668	57	725640	9.954	ppbv	99
45) t-1,3-Dichloropropene	6.444	75	175855	9.722	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
 Data File : VL041870.D
 Acq On : 09 Jan 2025 17:32
 Operator : SY/MD
 Sample : VL0109ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0109ABS01

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 01/10/2025
 Supervised By :Semsettin Yesilyurt 01/10/2025

Quant Time: Jan 10 01:42:45 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Fri Jan 10 00:31:30 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.632	75	224860	9.688	ppbv	99
47) 1,1,2-Trichloroethane	6.616	97	161735	10.013	ppbv	98
48) Dibromochloromethane	7.412	129	261021	10.656	ppbv	98
49) Bromoform	9.503	173	224507	10.502	ppbv	100
50) 4-Methyl-2-Pentanone	5.784	43	429608	9.735	ppbv	100
51) 2-Hexanone	7.464	43	348688	9.606	ppbv	100
52) Tetrachloroethene	8.247	164	147986	8.949	ppbv	97
53) Toluene	6.962	91	508818	9.913	ppbv	100
54) 1,2-Dibromoethane	7.678	107	222055	10.109	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.946	131	204382	10.083	ppbv	99
57) Chlorobenzene	8.943	112	374449	9.875	ppbv	98
58) Ethyl Benzene	9.374	91	697634	9.977	ppbv	98
59) m/p-Xylene	9.571	91	1094652m	19.809	ppbv	
60) o-Xylene	9.982	91	542913	9.850	ppbv	100
61) Styrene	9.888	104	270452	9.826	ppbv	99
62) Isopropylbenzene	10.558	105	823744	9.926	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.982	83	320068	9.668	ppbv	99
64) n-propylbenzene	11.005	120	210154	9.719	ppbv	97
65) tert-Butylbenzene	11.549	119	733119	9.761	ppbv	99
66) Benzyl Chloride	11.633	91	59367	7.631	ppbv	99
67) sec-Butylbenzene	11.785	105	997840	9.642	ppbv	99
69) p-Isopropyltoluene	11.944	119	845742	9.577	ppbv	99
70) n-Butylbenzene	12.296	91	833307	9.402	ppbv	99
71) 2-Chlorotoluene	10.918	91	615640	9.582	ppbv	99
72) 4-Ethyltoluene	11.141	105	656224	9.710	ppbv	99
73) 1,3,5-Trimethylbenzene	11.222	105	562687	9.807	ppbv	99
74) 1,2,4-Trimethylbenzene	11.552	105	586850	9.416	ppbv #	84
75) 1,3-Dichlorobenzene	11.623	146	344200	9.212	ppbv	100
76) 1,4-Dichlorobenzene	11.688	146	343950	9.299	ppbv	99
77) 1,2-Dichlorobenzene	11.963	146	328031	9.288	ppbv	99
78) Hexachloro-1,3-Butadiene	13.898	225	243823	8.032	ppbv	99
79) Naphthalene	13.529	128	523668	7.800	ppbv	98
80) Naphthalene,2-methyl-	14.475	142	200530	5.538	ppbv	99
81) 1,2,4-Trichlorobenzene	13.458	180	254295	7.954	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
 Data File : VL041876.D
 Acq On : 09 Jan 2025 20:46
 Operator : SY/MD
 Sample : QC010725 CAN 10601
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 QC010725 CAN 10601

Quant Time: Jan 10 01:48:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Jan 10 00:31:30 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.800	49	114286	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.978	114	340666	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	300213	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	248334	10.316	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.200%

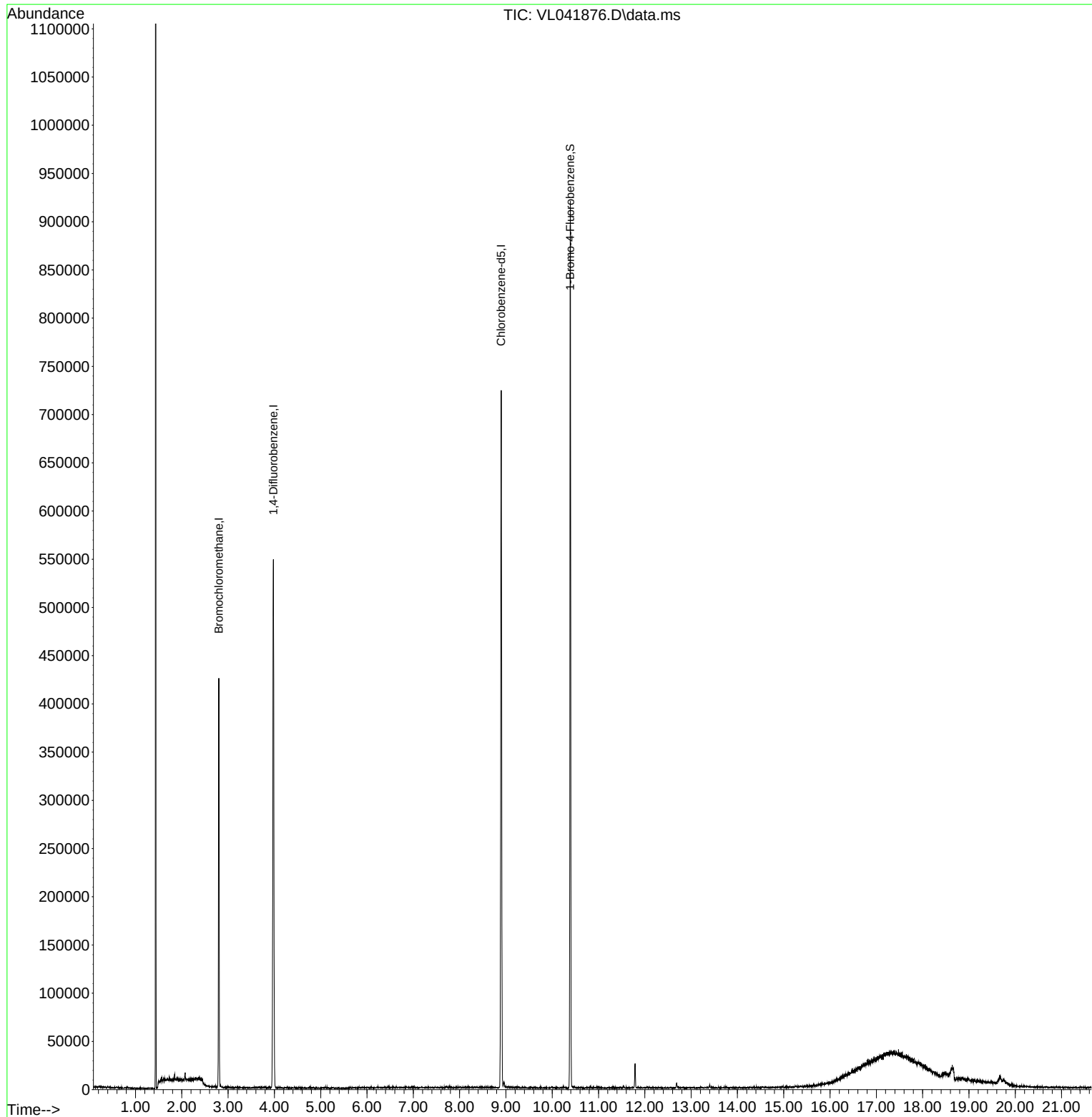
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010925\
Data File : VL041876.D
Acq On : 09 Jan 2025 20:46
Operator : SY/MD
Sample : QC010725 CAN 10601
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC010725 CAN 10601

Quant Time: Jan 10 01:48:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010925AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri Jan 10 00:31:30 2025
Response via : Initial Calibration

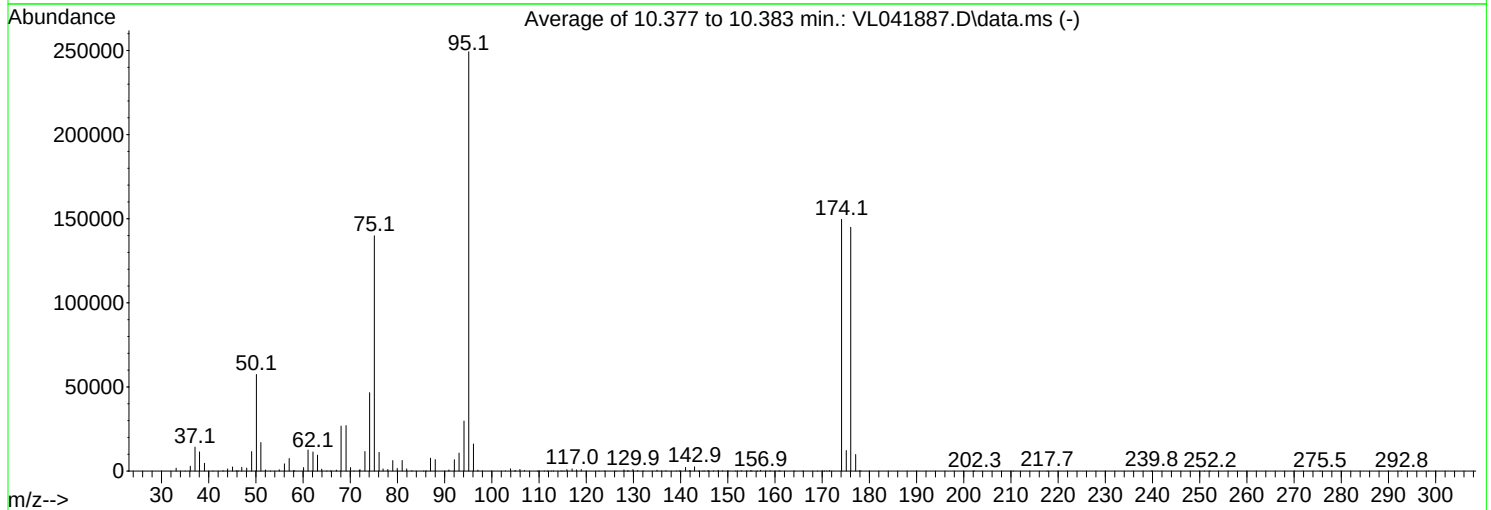
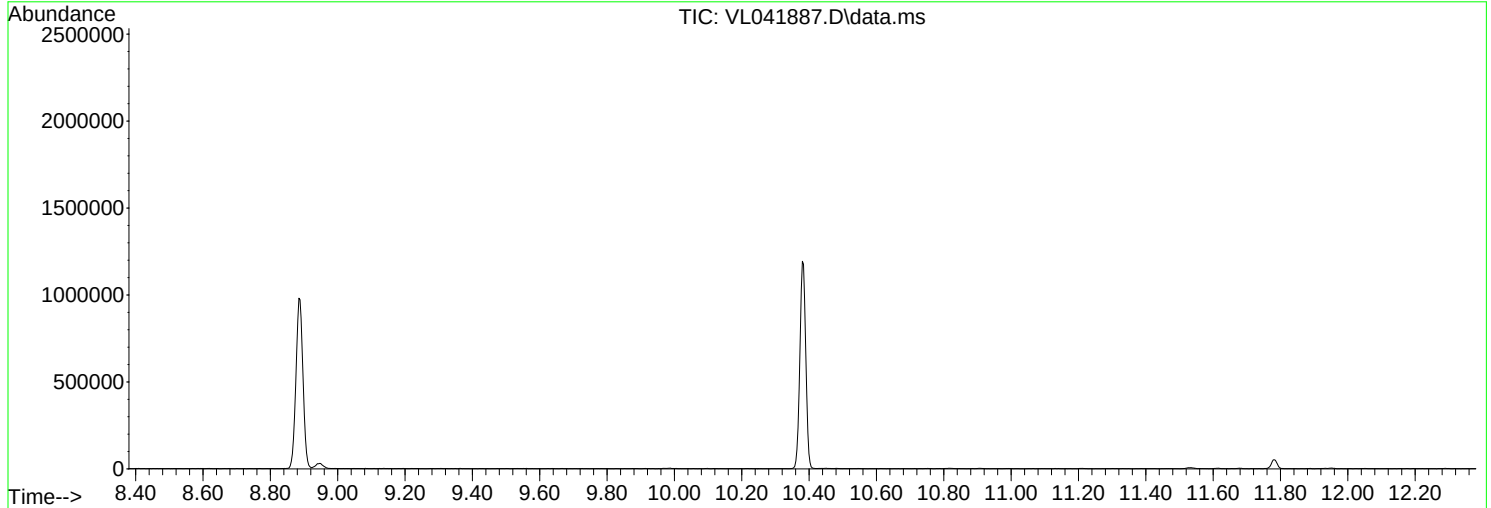


Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041887.D
Acq On : 14 Jan 2025 07:50
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Tue Jan 14 23:15:42 2025



AutoFind: Scans 3179, 3180, 3181; Background Corrected with Scan 3165

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	23.0	57448	PASS
75	95	30	66	56.1	139893	PASS
95	95	100	100	100.0	249280	PASS
96	95	5	9	6.5	16102	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	60.0	149632	PASS
175	174	4	9	8.2	12223	PASS
176	174	93	101	96.8	144917	PASS
177	176	5	9	6.8	9838	PASS

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\

Method File : VL011425AIR.M

Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

Last Update : Tue Jan 14 23:15:42 2025

Response Via : Initial Calibration

Calibration Files

0.03=VL041894.D 0.1 =VL041893.D 0.5 =VL041892.D 1 =VL041891.D 2 =VL041890.D 10 =VL041889.D 15 =VL041895.D

Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD

1) I Bromochloromethane	-----ISTD-----								
2) T Dichlorodifluo...			1.450	1.406	1.359	1.300	1.295	1.362	4.93
3) Chlorodifluoro...			1.448	1.547	1.466	1.330	1.343	1.427	6.34
4) Chloromethane			0.546	0.499	0.525	0.492	0.499	0.512	4.41
5) T Vinyl Chloride	0.504	0.578	0.561	0.531	0.502	0.466	0.491	0.519	7.62
6) T Bromomethane			0.253	0.274	0.248	0.229	0.233	0.247	7.30
7) Chloroethane			0.210	0.205	0.209	0.193	0.194	0.202	4.08
8) T Dichlorotetra...			1.282	1.198	1.225	1.095	1.151	1.190	5.99
9) T Propene			0.642	0.577	0.605	0.568	0.548	0.588	6.21
10) T Heptane			1.536	1.616	1.635	1.530	1.538	1.571	3.19
11) T Trichlorofluor...			1.488	1.417	1.435	1.335	1.410	1.417	3.87
12) T 1,1,2-Trichlor...			1.098	1.137	1.166	1.057	1.095	1.110	3.78
13) Ethanol			0.065	0.043	0.051	0.027	0.029	0.043#	36.98
14) T Bromoethene			0.420	0.445	0.403	0.371	0.393	0.407	6.93
15) T Acetone			1.405	1.301	1.256	0.991	1.051	1.201	14.50
16) T 1,3-Butadiene			0.552	0.589	0.545	0.494	0.515	0.539	6.74
17) tert-Butyl alc...			1.527	1.559	1.503	1.399	1.404	1.478	4.91
18) T 1,1-Dichloroet...			0.520	0.517	0.514	0.458	0.492	0.501	5.18
19) T Isopropyl Alcohol			0.864	0.731	0.714	0.621	0.631	0.712	13.77
20) T Methylene Chlo...			0.586	0.503	0.478	0.390	0.416	0.475	16.27
21) T Allyl Chloride			0.897	0.823	0.847	0.792	0.799	0.832	5.06
22) T trans-1,2-Dich...			0.549	0.583	0.595	0.540	0.556	0.565	4.13
23) T Vinyl Acetate			0.873	0.475	0.543	0.538	0.549	0.595	26.54
24) T 1,1-Dichloroet...			1.165	1.099	1.100	1.016	1.083	1.093	4.84
25) T Ethyl Acetate			3.219	3.352	3.399	3.094	3.131	3.239	4.13
26) T Hexane			1.265	1.249	1.388	1.261	1.242	1.281	4.71
27) T Carbon Disulfide			1.210	1.256	1.304	1.258	1.311	1.268	3.22
28) T Methyl tert-Bu...			1.043	1.187	1.007	0.774	0.885	0.979	16.08
29) T Chloroform			2.101	2.060	2.105	1.911	1.947	2.025	4.45
30) T Cyclohexane			1.037	1.193	1.145	1.082	1.098	1.111	5.41
31) T cis-1,2-Dichlo...			1.406	1.397	1.390	1.272	1.279	1.349	4.98
32) T 1,1,1-Trichlor...	1.937	1.841	1.942	2.010	1.956	1.905	1.973	1.938	2.76

33) I 1,4-Difluorobenzene	-----ISTD-----								
34) T 2-Butanone			0.649	0.646	0.679	0.602	0.605	0.636	5.13
35) T Carbon Tetrach...	0.605	0.608	0.584	0.616	0.657	0.649	0.677	0.628	5.32
36) T Benzene			0.926	0.949	0.949	0.882	0.879	0.917	3.78
37) T 1,2-Dichloroet...			0.539	0.516	0.517	0.493	0.510	0.515	3.23
38) T Trichloroethene	0.286	0.427	0.381	0.374	0.373	0.354	0.353	0.364	11.62
39) T 1,2-Dichloropr...			0.349	0.321	0.329	0.305	0.304	0.322	5.81

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\											
Method File : VL011425AIR.M											
40)	T	1,4-Dioxane			0.187	0.162	0.161	0.147	0.155	0.162	9.21
41)	T	Tetrahydrofuran			0.333	0.344	0.358	0.348	0.346	0.346	2.53
42)	T	Bromodichlorom...			0.700	0.659	0.703	0.684	0.707	0.691	2.84
43)		Methyl Methacr...			0.340	0.336	0.349	0.338	0.341	0.341	1.41
44)	T	2,2,4-Trimethy...			1.450	1.501	1.566	1.457	1.444	1.484	3.45
45)	T	t-1,3-Dichloro...			0.300	0.292	0.319	0.338	0.346	0.319	7.38
46)	T	cis-1,3-Dichlo...			0.371	0.391	0.439	0.446	0.447	0.419	8.43
47)	T	1,1,2-Trichlor...			0.340	0.345	0.350	0.333	0.336	0.341	2.06
48)	T	Dibromochlorom...			0.490	0.489	0.541	0.545	0.566	0.526	6.64
49)	T	Bromoform			0.379	0.394	0.439	0.460	0.488	0.432	10.53
50)	T	4-Methyl-2-Pen...			0.892	0.870	0.899	0.833	0.846	0.868	3.29
51)	T	2-Hexanone			0.622	0.640	0.739	0.652	0.683	0.667	6.91
52)	T	Tetrachloroethene	0.320	0.348	0.317	0.329	0.330	0.292	0.291	0.318	6.46
53)	T	Toluene			0.934	0.996	1.048	1.011	1.008	0.999	4.14
54)	T	1,2-Dibromoethane		0.440	0.488	0.468	0.494	0.454	0.470	0.469	4.32
-----ISTD-----											
55)	I	Chlorobenzene-d5									
56)		1,1,1,2-Tetrac...			0.502	0.514	0.510	0.481	0.488	0.499	2.86
57)	T	Chlorobenzene			0.986	0.968	0.977	0.848	0.832	0.922	8.18
58)	T	Ethyl Benzene			1.507	1.563	1.653	1.551	1.541	1.563	3.49
59)	T	m/p-Xylene			1.186	1.265	1.355	1.223	1.234	1.253	5.10
60)	T	o-Xylene			1.179	1.241	1.348	1.224	1.224	1.243	5.06
61)	T	Styrene			0.516	0.515	0.576	0.587	0.595	0.558	7.02
62)		Isopropylbenzene			1.927	1.925	2.066	1.854	1.848	1.924	4.56
63)	T	1,1,2,2-Tetrac...		0.756	0.816	0.845	0.858	0.751	0.741	0.795	6.52
64)		n-propylbenzene			0.481	0.495	0.521	0.469	0.464	0.486	4.78
65)		tert-Butylbenzene			1.746	1.782	1.919	1.675	1.645	1.753	6.12
66)	T	Benzyl Chloride			0.102	0.093	0.113	0.115	0.119	0.109	9.71
67)		sec-Butylbenzene			2.389	2.457	2.681	2.299	2.246	2.414	7.04
68)	S	1-Bromo-4-Fluo...	0.783	0.785	0.784	0.792	0.795	0.782	0.792	0.788	0.65
69)		p-Isopropyltol...			1.852	2.013	2.256	1.927	1.892	1.988	8.11
70)		n-Butylbenzene			1.867	2.048	2.206	1.898	1.840	1.972	7.80
71)		2-Chlorotoluene			1.394	1.410	1.537	1.389	1.385	1.423	4.54
72)	T	4-Ethyltoluene			1.442	1.447	1.610	1.466	1.472	1.487	4.67
73)	T	1,3,5-Trimethy...			1.222	1.360	1.448	1.263	1.275	1.313	6.88
74)	T	1,2,4-Trimethy...			1.359	1.456	1.607	1.346	1.344	1.422	7.97
75)	T	1,3-Dichlorobe...			0.881	0.884	0.903	0.776	0.771	0.843	7.61
76)	T	1,4-Dichlorobe...			0.830	0.859	0.889	0.769	0.777	0.825	6.29
77)	T	1,2-Dichlorobe...			0.863	0.902	0.909	0.757	0.745	0.835	9.43
78)	T	Hexachloro-1,3...			0.747	0.742	0.772	0.586	0.582	0.686	13.66
79)	T	Naphthalene		0.978	1.479	1.682	1.941	1.255	1.259	1.432	24.01
80)	T	Naphthalene,2-...			0.572	0.724	1.151	0.463	0.485	0.679	41.70
81)	T	1,2,4-Trichlor...			0.745	0.738	0.819	0.598	0.596	0.699	14.10

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041889.D
 Acq On : 14 Jan 2025 12:55
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 21:20:11 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Jan 14 16:31:18 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	152325	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	449256	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.894	117	400269	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.390	95	313194	9.934	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	197959	9.541	ppbv	100
3) Chlorodifluoromethane	1.479	51	202651	9.323	ppbv	100
4) Chloromethane	1.538	50	74977	9.608	ppbv	100
5) Vinyl Chloride	1.583	62	71006	8.984	ppbv	100
6) Bromomethane	1.674	94	34817	9.243	ppbv	100
7) Chloroethane	1.709	64	29349	9.544	ppbv	100
8) Dichlorotetrafluoroethane	1.557	85	166754	9.196	ppbv	100
9) Propene	1.486	41	86544	9.665	ppbv	100
10) Heptane	5.001	43	233062	9.738	ppbv	100
11) Trichlorofluoromethane	1.884	101	203374	9.423	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.146	101	160993	9.517	ppbv	100
13) Ethanol	1.725	45	4155	6.335	ppbv	98
14) Bromoethene	1.787	108	56447	9.114	ppbv	100
15) Acetone	1.842	43	151022	8.255	ppbv	100
16) 1,3-Butadiene	1.612	39	75244	9.163	ppbv	100
17) tert-Butyl alcohol	2.046	59	213109	9.464	ppbv	100
18) 1,1-Dichloroethene	2.039	96	69825	9.158	ppbv	100
19) Isopropyl Alcohol	1.890	45	94532	8.714	ppbv	100
20) Methylene Chloride	2.068	84	59427	8.219	ppbv	100
21) Allyl Chloride	2.101	41	120681	9.526	ppbv	100
22) trans-1,2-Dichloroethene	2.347	96	82326	9.568	ppbv	100
23) Vinyl Acetate	2.470	43	81885	10.281	ppbv	100
24) 1,1-Dichloroethane	2.418	63	154838	9.303	ppbv	100
25) Ethyl Acetate	2.845	43	471257	9.552	ppbv	100
26) Hexane	2.835	57	192009	9.841	ppbv	100
27) Carbon Disulfide	2.156	76	191567	9.921	ppbv	99
28) Methyl tert-Butyl Ether	2.450	73	117898	7.905	ppbv	100
29) Chloroform	2.858	83	291118	9.438	ppbv	100
30) Cyclohexane	3.868	84	164788	9.737	ppbv	100
31) cis-1,2-Dichloroethene	2.729	61	193774	9.432	ppbv	100
32) 1,1,1-Trichloroethane	3.379	97	290126	9.830	ppbv	100
34) 2-Butanone	2.567	43	270263	9.459	ppbv	100
35) Carbon Tetrachloride	3.777	117	291448	10.309	ppbv	100
36) Benzene	3.671	78	396344	9.619	ppbv	100
37) 1,2-Dichloroethane	3.230	62	221352	9.565	ppbv	100
38) Trichloroethene	4.564	130	159253	9.736	ppbv	100
39) 1,2-Dichloropropane	4.331	63	137090	9.484	ppbv	100
40) 1,4-Dioxane	4.606	88	66200	9.075	ppbv #	94
41) Tetrahydrofuran	3.065	42	156141	10.023	ppbv	100
42) Bromodichloromethane	4.509	83	307176	9.900	ppbv	100
43) Methyl Methacrylate	4.897	69	152001	9.930	ppbv	100
44) 2,2,4-Trimethylpentane	4.658	57	654395	9.819	ppbv	100
45) t-1,3-Dichloropropene	6.435	75	151920	10.603	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041889.D
 Acq On : 14 Jan 2025 12:55
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
 Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 21:20:11 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Jan 14 16:31:18 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.622	75	200330	10.649	ppbv	100
47) 1,1,2-Trichloroethane	6.600	97	149634	9.766	ppbv	100
48) Dibromochloromethane	7.402	129	245066	10.368	ppbv	100
49) Bromoform	9.496	173	206751	10.649	ppbv	100
50) 4-Methyl-2-Pentanone	5.778	43	374267	9.615	ppbv	100
51) 2-Hexanone	7.454	43	292941	9.775	ppbv #	100
52) Tetrachloroethene	8.241	164	131334	9.193	ppbv	100
53) Toluene	6.952	91	454085	10.116	ppbv	100
54) 1,2-Dibromoethane	7.668	107	203859	9.679	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.940	131	192449	9.637	ppbv	99
57) Chlorobenzene	8.937	112	339570	9.197	ppbv	100
58) Ethyl Benzene	9.367	91	620719	9.923	ppbv	100
59) m/p-Xylene	9.564	91	979297m	19.504	ppbv	
60) o-Xylene	9.979	91	490108	9.848	ppbv	100
61) Styrene	9.885	104	234901	10.522	ppbv	100
62) Isopropylbenzene	10.552	105	742261	9.638	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.976	83	300600	9.596	ppbv	100
64) n-propylbenzene	11.002	120	187706	9.646	ppbv	99
65) tert-Butylbenzene	11.542	119	670259	9.550	ppbv	100
66) Benzyl Chloride	11.626	91	46008	10.591	ppbv	100
67) sec-Butylbenzene	11.778	105	920046	9.521	ppbv	100
69) p-Isopropyltoluene	11.937	119	771465	9.694	ppbv	100
70) n-Butylbenzene	12.293	91	759785	9.627	ppbv	100
71) 2-Chlorotoluene	10.914	91	556170	9.763	ppbv	100
72) 4-Ethyltoluene	11.137	105	586667	9.855	ppbv	100
73) 1,3,5-Trimethylbenzene	11.215	105	505443	9.614	ppbv	100
74) 1,2,4-Trimethylbenzene	11.549	105	538665	9.461	ppbv	100
75) 1,3-Dichlorobenzene	11.620	146	310421	9.201	ppbv	100
76) 1,4-Dichlorobenzene	11.684	146	307758	9.324	ppbv	100
77) 1,2-Dichlorobenzene	11.960	146	303196	9.068	ppbv	100
78) Hexachloro-1,3-Butadiene	13.895	225	234457	8.543	ppbv	100
79) Naphthalene	13.526	128	502354	8.764	ppbv	100
80) Naphthalene,2-methyl-	14.471	142	185336	6.819	ppbv	100
81) 1,2,4-Trichlorobenzene	13.452	180	239317	8.553	ppbv	100

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041890.D
 Acq On : 14 Jan 2025 13:28
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Quant Time: Jan 14 21:20:29 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Tue Jan 14 16:31:18 2025
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

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

Internal Standards						
1) Bromochloromethane	2.797	49	150761	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.971	114	452131	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.894	117	394865	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.390	95	313784	10.089	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.900%

Target Compounds	Qvalue					
2) Dichlorodifluoromethane	1.502	85	40991	1.996	ppbv	98
3) Chlorodifluoromethane	1.479	51	44207	2.055	ppbv	99
4) Chloromethane	1.538	50	15833	2.050	ppbv	93
5) Vinyl Chloride	1.583	62	15137	1.935	ppbv	99
6) Bromomethane	1.673	94	7486	2.008	ppbv	91
7) Chloroethane	1.709	64	6303	2.071	ppbv #	84
8) Dichlorotetrafluoroethane	1.557	85	36941	2.058	ppbv	99
9) Propene	1.486	41	18248	2.059	ppbv	95
10) Heptane	5.001	43	49302	2.081	ppbv	97
11) Trichlorofluoromethane	1.884	101	43266	2.025	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.146	101	35162	2.100	ppbv	97
13) Ethanol	1.725	45	1534	2.363	ppbv	84
14) Bromoethene	1.787	108	12163	1.984	ppbv #	95
15) Acetone	1.842	43	37867	2.091	ppbv	99
16) 1,3-Butadiene	1.612	39	16446	2.024	ppbv	100
17) tert-Butyl alcohol	2.049	59	45305	2.033	ppbv	99
18) 1,1-Dichloroethene	2.039	96	15508	2.055	ppbv	97
19) Isopropyl Alcohol	1.894	45	21530	2.005	ppbv	94
20) Methylene Chloride	2.068	84	14399	2.012	ppbv	95
21) Allyl Chloride	2.104	41	25533	2.036	ppbv	97
22) trans-1,2-Dichloroethene	2.350	96	17951	2.108	ppbv	83
23) Vinyl Acetate	2.470	43	16358	2.075	ppbv	99
24) 1,1-Dichloroethane	2.418	63	33175	2.014	ppbv	99
25) Ethyl Acetate	2.848	43	102475	2.099	ppbv	99
26) Hexane	2.835	57	41844	2.167	ppbv	99
27) Carbon Disulfide	2.156	76	39306	2.057	ppbv #	70
28) Methyl tert-Butyl Ether	2.454	73	30355	2.056	ppbv	96
29) Chloroform	2.858	83	63457	2.079	ppbv	94
30) Cyclohexane	3.874	84	34518	2.061	ppbv	97
31) cis-1,2-Dichloroethene	2.729	61	41921	2.062	ppbv	89
32) 1,1,1-Trichloroethane	3.382	97	58965	2.019	ppbv	98
34) 2-Butanone	2.570	43	61381	2.135	ppbv	99
35) Carbon Tetrachloride	3.777	117	59430	2.089	ppbv	95
36) Benzene	3.670	78	85859	2.070	ppbv	96
37) 1,2-Dichloroethane	3.230	62	46786	2.009	ppbv	100
38) Trichloroethene	4.564	130	33773	2.052	ppbv	98
39) 1,2-Dichloropropane	4.334	63	29723	2.043	ppbv	96
40) 1,4-Dioxane	4.619	88	14566m	1.984	ppbv	
41) Tetrahydrofuran	3.072	42	32358	2.064	ppbv	96
42) Bromodichloromethane	4.509	83	63611	2.037	ppbv	99
43) Methyl Methacrylate	4.900	69	31519	2.046	ppbv	99
44) 2,2,4-Trimethylpentane	4.658	57	141602	2.111	ppbv	100
45) t-1,3-Dichloropropene	6.435	75	28818	1.999	ppbv	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041890.D
 Acq On : 14 Jan 2025 13:28
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
 Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 21:20:29 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Jan 14 16:31:18 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.625	75	39668	2.095	ppbv	94
47) 1,1,2-Trichloroethane	6.600	97	31694m	2.055	ppbv	
48) Dibromochloromethane	7.406	129	48894	2.055	ppbv	99
49) Bromoform	9.496	173	39710	2.032	ppbv	99
50) 4-Methyl-2-Pentanone	5.784	43	81330	2.076	ppbv	98
51) 2-Hexanone	7.457	43	66831	2.216	ppbv #	98
52) Tetrachloroethene	8.241	164	29814	2.074	ppbv	94
53) Toluene	6.952	91	94741	2.097	ppbv	98
54) 1,2-Dibromoethane	7.671	107	44636	2.106	ppbv	96
56) 1,1,1,2-Tetrachloroethane	8.940	131	40249	2.043	ppbv	93
57) Chlorobenzene	8.933	112	77180	2.119	ppbv	94
58) Ethyl Benzene	9.367	91	130554	2.116	ppbv	98
59) m/p-Xylene	9.561	91	214076m	4.322	ppbv	
60) o-Xylene	9.975	91	106458	2.168	ppbv	99
61) Styrene	9.885	104	45490	2.065	ppbv	99
62) Isopropylbenzene	10.552	105	163135	2.147	ppbv	97
63) 1,1,2,2-Tetrachloroethane	9.975	83	67775	2.193	ppbv	99
64) n-propylbenzene	11.001	120	41184	2.145	ppbv	99
65) tert-Butylbenzene	11.542	119	151534	2.189	ppbv	97
66) Benzyl Chloride	11.626	91	8925	2.083	ppbv	97
67) sec-Butylbenzene	11.778	105	211759	2.221	ppbv	99
69) p-Isopropyltoluene	11.937	119	178172	2.270	ppbv	100
70) n-Butylbenzene	12.293	91	174217	2.238	ppbv	99
71) 2-Chlorotoluene	10.914	91	121418	2.161	ppbv	100
72) 4-Ethyltoluene	11.137	105	127115	2.164	ppbv	100
73) 1,3,5-Trimethylbenzene	11.215	105	114342	2.205	ppbv	99
74) 1,2,4-Trimethylbenzene	11.548	105	126939	2.260	ppbv #	89
75) 1,3-Dichlorobenzene	11.616	146	71332	2.143	ppbv	98
76) 1,4-Dichlorobenzene	11.684	146	70219	2.156	ppbv	99
77) 1,2-Dichlorobenzene	11.960	146	71818	2.177	ppbv	100
78) Hexachloro-1,3-Butadiene	13.892	225	60984	2.253	ppbv	99
79) Naphthalene	13.526	128	153268	2.710	ppbv	98
80) Naphthalene,2-methyl-	14.471	142	90910	3.391	ppbv	99
81) 1,2,4-Trichlorobenzene	13.452	180	64653	2.342	ppbv	98

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

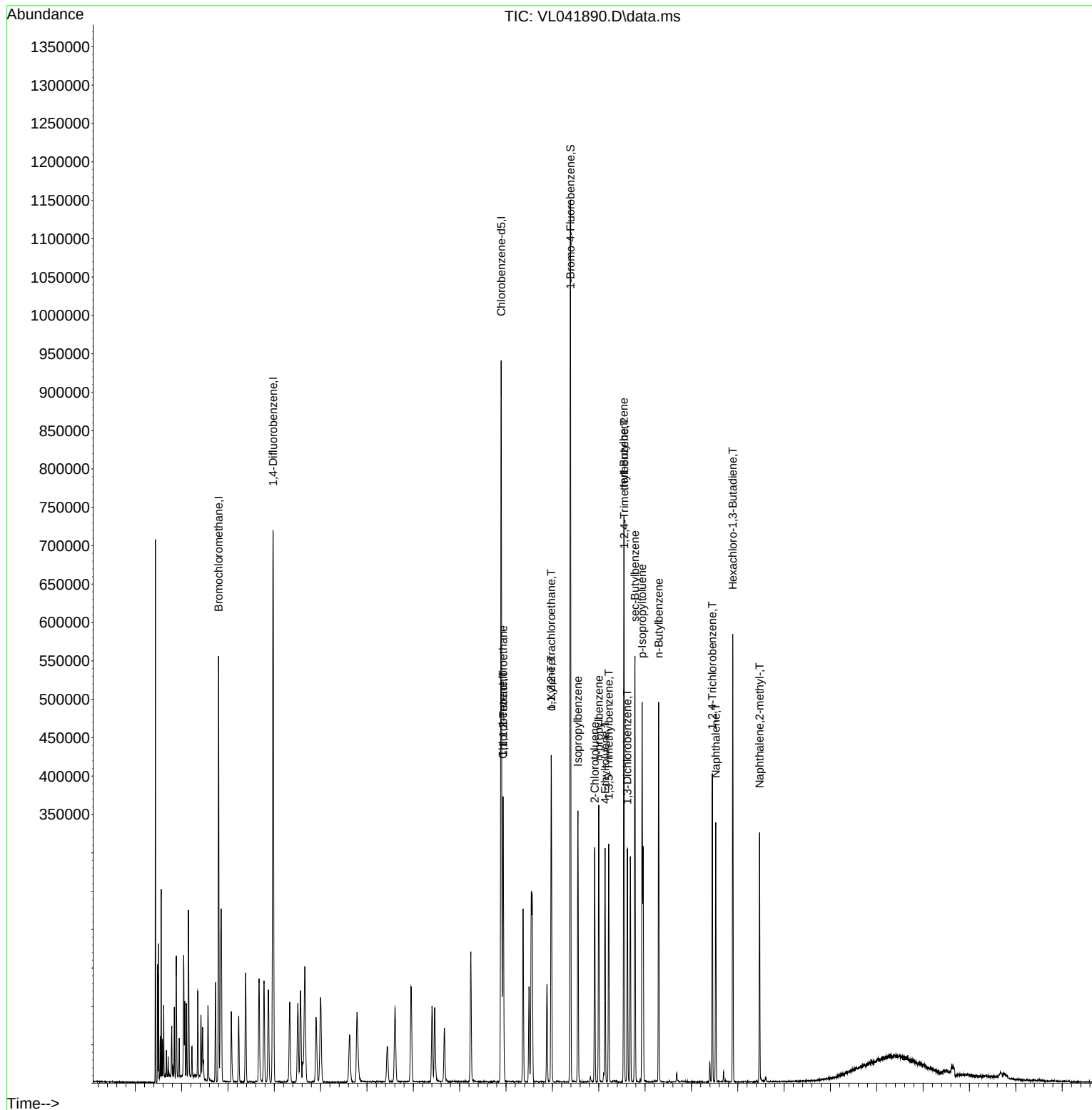
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041890.D
Acq On : 14 Jan 2025 13:28
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Quant Time: Jan 14 21:20:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041891.D
 Acq On : 14 Jan 2025 13:59
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 21:20:45 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Jan 14 16:31:18 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	151226	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.972	114	453418	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.895	117	393836	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.387 95 312013 10.058 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.600%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	21262	1.032	ppbv	95
3) Chlorodifluoromethane	1.479	51	23396	1.084	ppbv	100
4) Chloromethane	1.534	50	7546	0.974	ppbv	94
5) Vinyl Chloride	1.583	62	8031	1.023	ppbv	97
6) Bromomethane	1.674	94	4139	1.107	ppbv #	81
7) Chloroethane	1.709	64	3093	1.013	ppbv	92
8) Dichlorotetrafluoroethane	1.557	85	18122	1.007	ppbv	100
9) Propene	1.486	41	8719	0.981	ppbv	93
10) Heptane	5.001	43	24438	1.029	ppbv	96
11) Trichlorofluoromethane	1.884	101	21425	1.000	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.143	101	17187	1.023	ppbv	95
13) Ethanol	1.725	45	650	0.998	ppbv #	29
14) Bromoethene	1.787	108	6736	1.096	ppbv #	88
15) Acetone	1.842	43	19681	1.084	ppbv	95
16) 1,3-Butadiene	1.612	39	8901	1.092	ppbv	98
17) tert-Butyl alcohol	2.049	59	23571	1.054	ppbv	95
18) 1,1-Dichloroethene	2.039	96	7819m	1.033	ppbv	
19) Isopropyl Alcohol	1.894	45	11054	1.026	ppbv #	32
20) Methylene Chloride	2.065	84	7608	1.060	ppbv #	89
21) Allyl Chloride	2.101	41	12451	0.990	ppbv	98
22) trans-1,2-Dichloroethene	2.347	96	8819	1.032	ppbv	96
23) Vinyl Acetate	2.470	43	7181	0.908	ppbv #	93
24) 1,1-Dichloroethane	2.415	63	16623	1.006	ppbv	97
25) Ethyl Acetate	2.845	43	50690	1.035	ppbv	98
26) Hexane	2.836	57	18893	0.975	ppbv	86
27) Carbon Disulfide	2.156	76	18993	0.991	ppbv #	23
28) Methyl tert-Butyl Ether	2.450	73	17955	1.213	ppbv	98
29) Chloroform	2.858	83	31155	1.017	ppbv	97
30) Cyclohexane	3.871	84	18048	1.074	ppbv	96
31) cis-1,2-Dichloroethene	2.729	61	21124	1.036	ppbv	99
32) 1,1,1-Trichloroethane	3.383	97	30396	1.037	ppbv	98
34) 2-Butanone	2.570	43	29280	1.015	ppbv	99
35) Carbon Tetrachloride	3.774	117	27946	0.979	ppbv	96
36) Benzene	3.671	78	43023	1.035	ppbv	93
37) 1,2-Dichloroethane	3.230	62	23402	1.002	ppbv	98
38) Trichloroethene	4.564	130	16954m	1.027	ppbv	
39) 1,2-Dichloropropane	4.331	63	14570	0.999	ppbv	98
40) 1,4-Dioxane	4.613	88	7345m	0.998	ppbv	
41) Tetrahydrofuran	3.075	42	15580m	0.991	ppbv	
42) Bromodichloromethane	4.509	83	29893m	0.955	ppbv	
43) Methyl Methacrylate	4.901	69	15222	0.985	ppbv	95
44) 2,2,4-Trimethylpentane	4.661	57	68050	1.012	ppbv	98
45) t-1,3-Dichloropropene	6.438	75	13220	0.914	ppbv	92

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041891.D
 Acq On : 14 Jan 2025 13:59
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 21:20:45 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Jan 14 16:31:18 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.626	75	17749	0.935	ppbv	97
47) 1,1,2-Trichloroethane	6.603	97	15658m	1.013	ppbv	
48) Dibromochloromethane	7.402	129	22169	0.929	ppbv	100
49) Bromoform	9.497	173	17876	0.912	ppbv	100
50) 4-Methyl-2-Pentanone	5.787	43	39436m	1.004	ppbv	
51) 2-Hexanone	7.464	43	28999	0.959	ppbv #	95
52) Tetrachloroethene	8.244	164	14903	1.034	ppbv #	80
53) Toluene	6.956	91	45140m	0.996	ppbv	
54) 1,2-Dibromoethane	7.668	107	21202	0.997	ppbv	96
56) 1,1,1,2-Tetrachloroethane	8.937	131	20255	1.031	ppbv	94
57) Chlorobenzene	8.933	112	38141	1.050	ppbv	98
58) Ethyl Benzene	9.367	91	61537	1.000	ppbv	99
59) m/p-Xylene	9.561	91	99618m	2.016	ppbv	
60) o-Xylene	9.972	91	48888	0.998	ppbv	98
61) Styrene	9.882	104	20285	0.923	ppbv	99
62) Isopropylbenzene	10.549	105	75801	1.000	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.972	83	33289	1.080	ppbv	97
64) n-propylbenzene	11.002	120	19511	1.019	ppbv	99
65) tert-Butylbenzene	11.539	119	70183	1.016	ppbv	98
66) Benzyl Chloride	11.626	91	3681m	0.861	ppbv	
67) sec-Butylbenzene	11.778	105	96749	1.018	ppbv	97
69) p-Isopropyltoluene	11.937	119	79283	1.013	ppbv	98
70) n-Butylbenzene	12.290	91	80664	1.039	ppbv	99
71) 2-Chlorotoluene	10.911	91	55540	0.991	ppbv	99
72) 4-Ethyltoluene	11.134	105	56973	0.973	ppbv	97
73) 1,3,5-Trimethylbenzene	11.215	105	53550	1.035	ppbv	97
74) 1,2,4-Trimethylbenzene	11.545	105	57352	1.024	ppbv	96
75) 1,3-Dichlorobenzene	11.617	146	34810	1.049	ppbv	99
76) 1,4-Dichlorobenzene	11.681	146	33822	1.041	ppbv	97
77) 1,2-Dichlorobenzene	11.960	146	35516	1.080	ppbv	98
78) Hexachloro-1,3-Butadiene	13.892	225	29210	1.082	ppbv	99
79) Naphthalene	13.523	128	66232	1.174	ppbv	98
80) Naphthalene,2-methyl-	14.468	142	28506	1.066	ppbv	98
81) 1,2,4-Trichlorobenzene	13.452	180	29053	1.055	ppbv	99

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

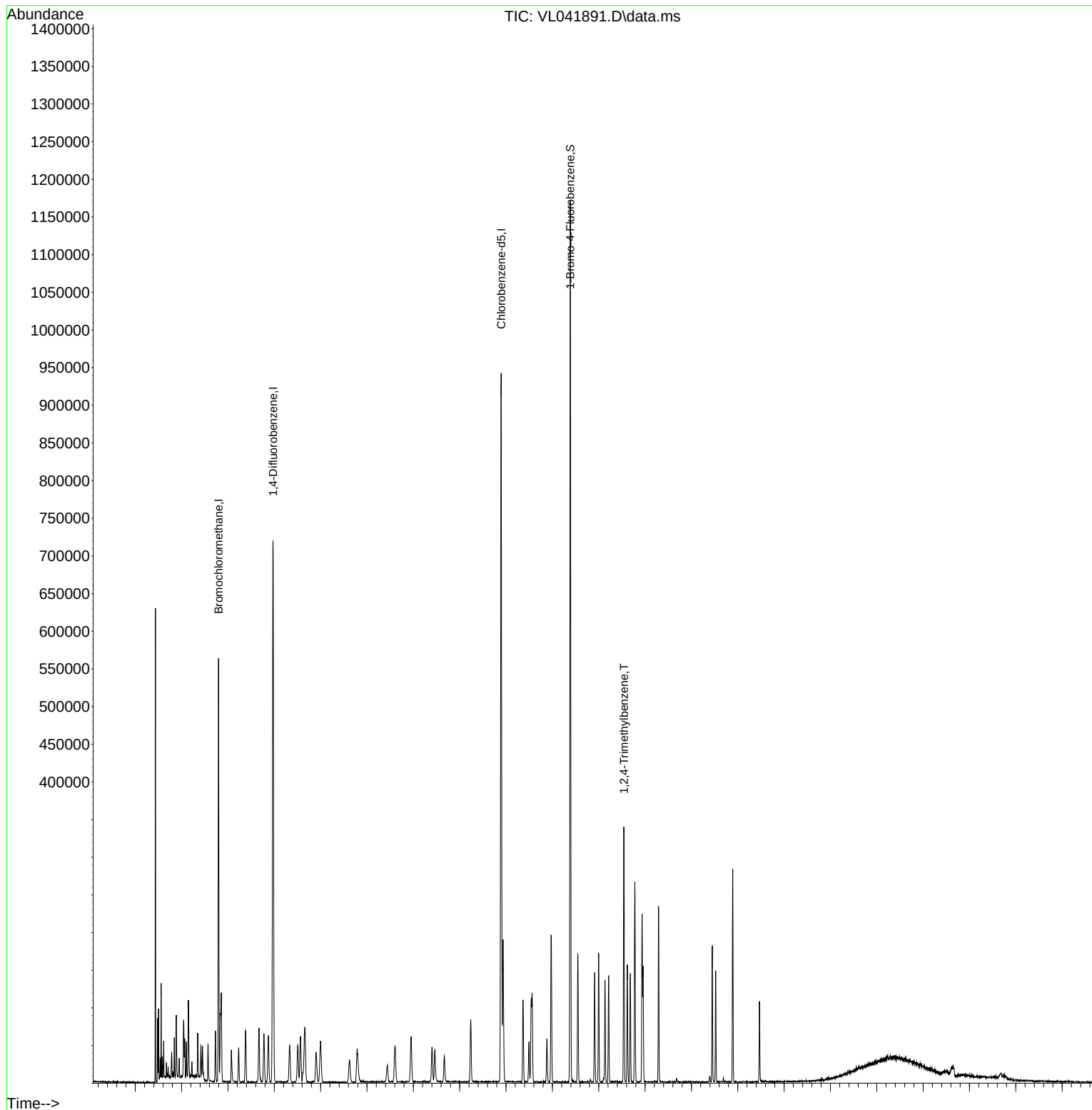
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041891.D
Acq On : 14 Jan 2025 13:59
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 21:20:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041892.D
 Acq On : 14 Jan 2025 14:30
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 21:21:01 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Jan 14 16:31:18 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	146186	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	430874	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	379402	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.383	95	297462	9.954	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.500%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	10599	0.532	ppbv	99
3) Chlorodifluoromethane	1.476	51	10582	0.507	ppbv	98
4) Chloromethane	1.534	50	3990	0.533	ppbv	98
5) Vinyl Chloride	1.580	62	4097	0.540	ppbv	94
6) Bromomethane	1.670	94	1852	0.512	ppbv #	78
7) Chloroethane	1.706	64	1532	0.519	ppbv #	77
8) Dichlorotetrafluoroethane	1.557	85	9372	0.539	ppbv	95
9) Propene	1.486	41	4690	0.546	ppbv	85
10) Heptane	4.988	43	11230	0.489	ppbv	95
11) Trichlorofluoromethane	1.881	101	10873	0.525	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.143	101	8027	0.494	ppbv	90
13) Ethanol	1.725	45	478m	0.759	ppbv	
14) Bromoethene	1.784	108	3071	0.517	ppbv #	94
15) Acetone	1.839	43	10273	0.585	ppbv	99
16) 1,3-Butadiene	1.612	39	4038	0.512	ppbv	99
17) tert-Butyl alcohol	2.046	59	11158	0.516	ppbv #	94
18) 1,1-Dichloroethene	2.036	96	3803	0.520	ppbv	95
19) Isopropyl Alcohol	1.891	45	6317	0.607	ppbv #	32
20) Methylene Chloride	2.065	84	4286	0.618	ppbv	93
21) Allyl Chloride	2.101	41	6553	0.539	ppbv	96
22) trans-1,2-Dichloroethene	2.347	96	4015	0.486	ppbv	89
23) Vinyl Acetate	2.467	43	6381m	0.835	ppbv	
24) 1,1-Dichloroethane	2.415	63	8512	0.533	ppbv	97
25) Ethyl Acetate	2.845	43	23529	0.497	ppbv	97
26) Hexane	2.829	57	9246m	0.494	ppbv	
27) Carbon Disulfide	2.153	76	8847	0.477	ppbv #	1
28) Methyl tert-Butyl Ether	2.447	73	7621	0.532	ppbv	97
29) Chloroform	2.855	83	15360	0.519	ppbv	92
30) Cyclohexane	3.871	84	7579	0.467	ppbv	92
31) cis-1,2-Dichloroethene	2.726	61	10275	0.521	ppbv #	89
32) 1,1,1-Trichloroethane	3.379	97	14198	0.501	ppbv	98
34) 2-Butanone	2.567	43	13981	0.510	ppbv	94
35) Carbon Tetrachloride	3.774	117	12590	0.464	ppbv	89
36) Benzene	3.667	78	19954	0.505	ppbv	95
37) 1,2-Dichloroethane	3.227	62	11613	0.523	ppbv	97
38) Trichloroethene	4.561	130	8199	0.523	ppbv #	89
39) 1,2-Dichloropropane	4.324	63	7526m	0.543	ppbv	
40) 1,4-Dioxane	4.616	88	4031m	0.576	ppbv	
41) Tetrahydrofuran	3.072	42	7183	0.481	ppbv	94
42) Bromodichloromethane	4.499	83	15081m	0.507	ppbv	
43) Methyl Methacrylate	4.891	69	7332m	0.499	ppbv	
44) 2,2,4-Trimethylpentane	4.645	57	31243	0.489	ppbv	95
45) t-1,3-Dichloropropene	6.428	75	6465m	0.470	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041892.D
 Acq On : 14 Jan 2025 14:30
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 21:21:01 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Jan 14 16:31:18 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	7986m	0.443	ppbv	
47) 1,1,2-Trichloroethane	6.597	97	7324	0.498	ppbv #	84
48) Dibromochloromethane	7.393	129	10548m	0.465	ppbv	
49) Bromoform	9.493	173	8162	0.438	ppbv	97
50) 4-Methyl-2-Pentanone	5.794	43	19221m	0.515	ppbv	
51) 2-Hexanone	7.454	43	13390	0.466	ppbv #	97
52) Tetrachloroethene	8.238	164	6821m	0.498	ppbv	
53) Toluene	6.946	91	20118	0.467	ppbv	96
54) 1,2-Dibromoethane	7.665	107	10511	0.520	ppbv	89
56) 1,1,1,2-Tetrachloroethane	8.930	131	9524	0.503	ppbv #	1
57) Chlorobenzene	8.930	112	18701	0.534	ppbv #	90
58) Ethyl Benzene	9.364	91	28584	0.482	ppbv #	88
59) m/p-Xylene	9.558	91	45003m	0.946	ppbv	
60) o-Xylene	9.972	91	22370	0.474	ppbv	97
61) Styrene	9.879	104	9788	0.463	ppbv	99
62) Isopropylbenzene	10.545	105	36561	0.501	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.969	83	15485	0.521	ppbv	98
64) n-propylbenzene	10.995	120	9128	0.495	ppbv	93
65) tert-Butylbenzene	11.536	119	33122	0.498	ppbv	98
66) Benzyl Chloride	11.620	91	1935	0.470	ppbv	99
67) sec-Butylbenzene	11.775	105	45326	0.495	ppbv	98
69) p-Isopropyltoluene	11.931	119	35136	0.466	ppbv	98
70) n-Butylbenzene	12.287	91	35409	0.473	ppbv	96
71) 2-Chlorotoluene	10.908	91	26436	0.490	ppbv	99
72) 4-Ethyltoluene	11.131	105	27363	0.485	ppbv	97
73) 1,3,5-Trimethylbenzene	11.209	105	23183	0.465	ppbv	93
74) 1,2,4-Trimethylbenzene	11.545	105	25777	0.478	ppbv	89
75) 1,3-Dichlorobenzene	11.610	146	16708	0.522	ppbv	100
76) 1,4-Dichlorobenzene	11.678	146	15738	0.503	ppbv	96
77) 1,2-Dichlorobenzene	11.953	146	16364	0.516	ppbv	93
78) Hexachloro-1,3-Butadiene	13.892	225	14162	0.544	ppbv	96
79) Naphthalene	13.520	128	28052	0.516	ppbv	98
80) Naphthalene,2-methyl-	14.468	142	10859	0.422	ppbv	97
81) 1,2,4-Trichlorobenzene	13.445	180	14136	0.533	ppbv	95

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

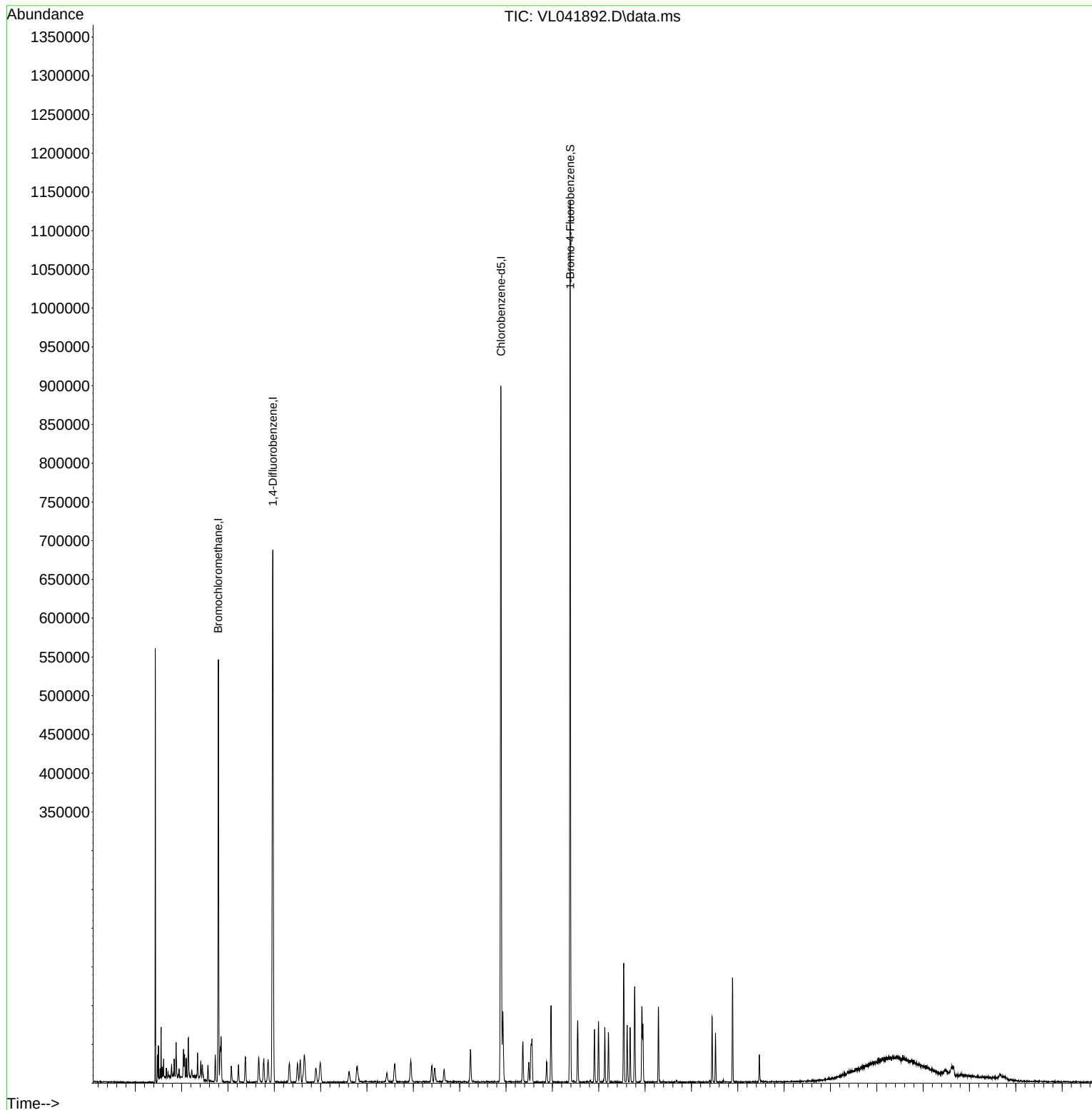
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041892.D
Acq On : 14 Jan 2025 14:30
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 21:21:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041893.D
 Acq On : 14 Jan 2025 15:01
 Operator : SY/MD
 Sample : VSTDICC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
 Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 22:42:51 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Tue Jan 14 16:31:18 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.793	49	143362	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	425675	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	372545	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	292283	9.961	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.600%
Target Compounds						
						Qvalue
5) Vinyl Chloride	1.583	62	828	0.111	ppbv	96
32) 1,1,1-Trichloroethane	3.383	97	2640m	0.095	ppbv	
35) Carbon Tetrachloride	3.768	117	2587m	0.097	ppbv	
38) Trichloroethene	4.557	130	1816m	0.117	ppbv	
52) Tetrachloroethene	8.234	164	1480m	0.109	ppbv	
54) 1,2-Dibromoethane	7.668	107	1872m	0.094	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.976	83	2816	0.097	ppbv	95
79) Naphthalene	13.520	128	3643	0.068	ppbv #	96

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

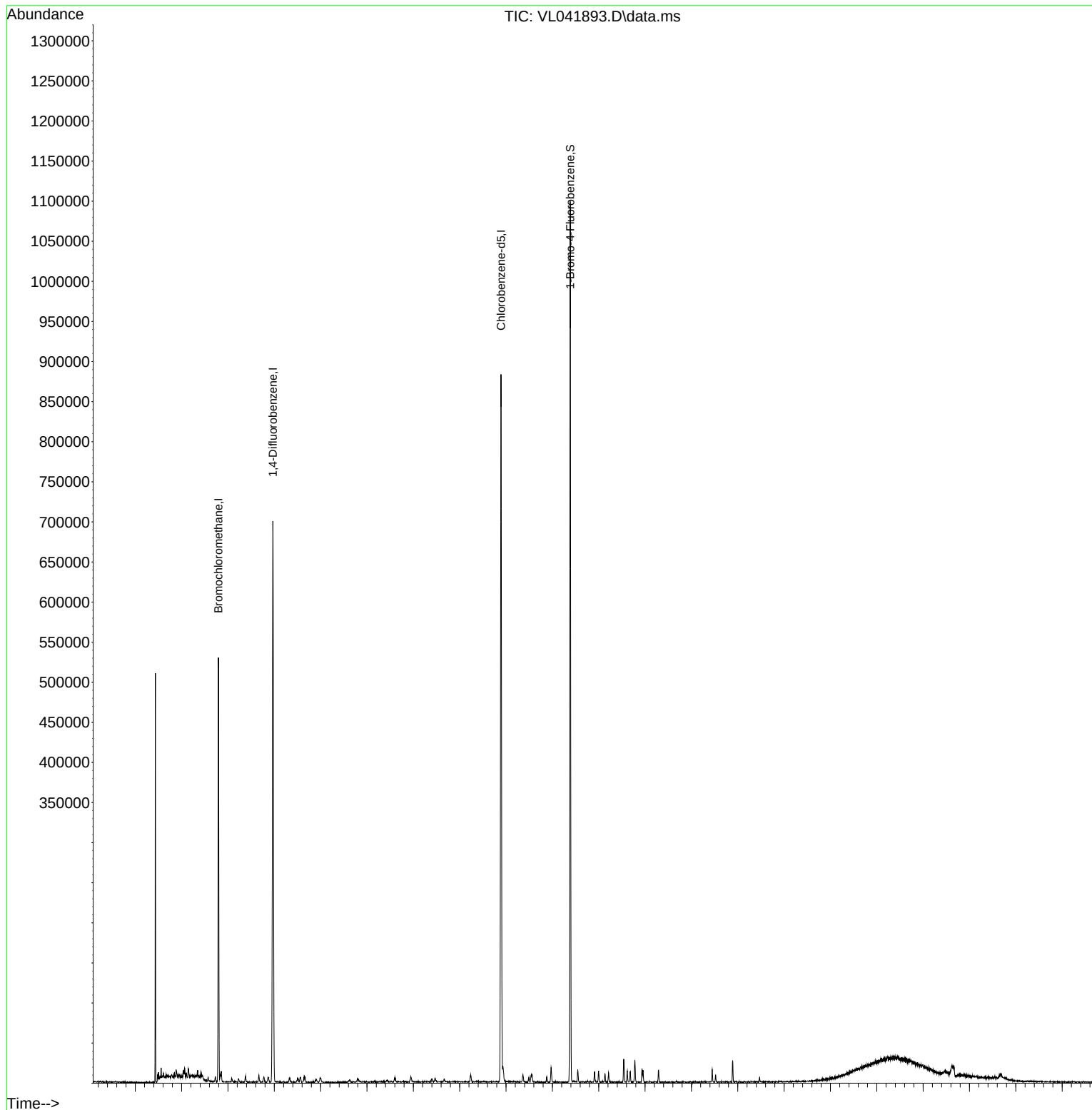
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041893.D
Acq On : 14 Jan 2025 15:01
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 22:42:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041894.D
 Acq On : 14 Jan 2025 15:32
 Operator : SY/MD
 Sample : VSTDICC0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
 Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 21:21:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Tue Jan 14 16:31:18 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.793	49	141659	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.972	114	424686	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	367402	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	287792	9.945	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.500%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.586	62	214m	0.029	ppbv	
32) 1,1,1-Trichloroethane	3.379	97	823	0.030	ppbv	85
35) Carbon Tetrachloride	3.774	117	771	0.029	ppbv #	56
38) Trichloroethene	4.557	130	364m	0.024	ppbv	
52) Tetrachloroethene	8.250	164	408m	0.030	ppbv	

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

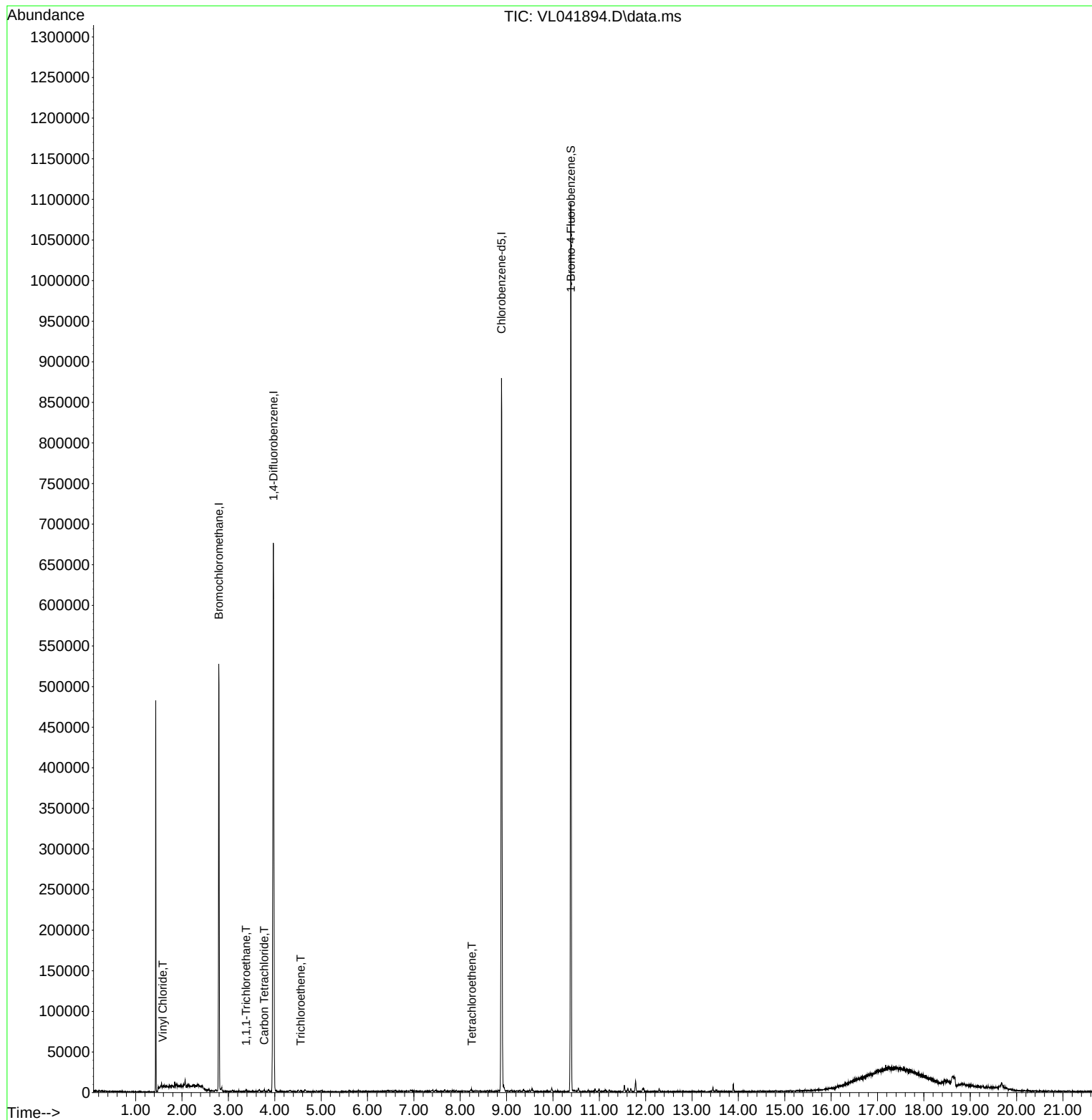
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041894.D
Acq On : 14 Jan 2025 15:32
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Quant Time: Jan 14 21:21:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
Supervised By : Mahesh Dadoda 01/15/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041895.D
 Acq On : 14 Jan 2025 16:05
 Operator : SY/MD
 Sample : VSTDICC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC015

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 21:21:42 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Jan 14 16:31:18 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.793	49	141652	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	419859	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.895	117	383799	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.387 95 304042 10.058 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.600%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	275248	14.266	ppbv	100
3) Chlorodifluoromethane	1.479	51	285437	14.121	ppbv	98
4) Chloromethane	1.534	50	106071	14.617	ppbv	98
5) Vinyl Chloride	1.583	62	104404	14.204	ppbv	98
6) Bromomethane	1.670	94	49415	14.106	ppbv	91
7) Chloroethane	1.709	64	41130	14.383	ppbv	100
8) Dichlorotetrafluoroethane	1.557	85	244666	14.510	ppbv	100
9) Propene	1.486	41	116343	13.972	ppbv	99
10) Heptane	4.998	43	326897	14.688	ppbv	98
11) Trichlorofluoromethane	1.881	101	299656	14.930	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.143	101	232607	14.787	ppbv	100
13) Ethanol	1.725	45	6109	10.016	ppbv	83
14) Bromoethene	1.784	108	83586	14.513	ppbv	98
15) Acetone	1.839	43	223353	13.128	ppbv	99
16) 1,3-Butadiene	1.612	39	109420	14.329	ppbv	99
17) tert-Butyl alcohol	2.046	59	298424	14.252	ppbv	99
18) 1,1-Dichloroethene	2.039	96	104645	14.759	ppbv	92
19) Isopropyl Alcohol	1.890	45	134050	13.288	ppbv	98
20) Methylene Chloride	2.065	84	88425	13.151	ppbv	98
21) Allyl Chloride	2.101	41	169875	14.419	ppbv	96
22) trans-1,2-Dichloroethene	2.347	96	118169	14.768	ppbv	97
23) Vinyl Acetate	2.470	43	116632	15.747	ppbv	98
24) 1,1-Dichloroethane	2.415	63	230015	14.862	ppbv	99
25) Ethyl Acetate	2.842	43	665170	14.499	ppbv	100
26) Hexane	2.836	57	263948	14.547	ppbv	97
27) Carbon Disulfide	2.156	76	278476	15.509	ppbv	99
28) Methyl tert-Butyl Ether	2.447	73	187986	13.555	ppbv	98
29) Chloroform	2.858	83	413733	14.424	ppbv	98
30) Cyclohexane	3.868	84	233398	14.830	ppbv	99
31) cis-1,2-Dichloroethene	2.729	61	271739	14.223	ppbv	94
32) 1,1,1-Trichloroethane	3.379	97	419117	15.271	ppbv	99
34) 2-Butanone	2.564	43	380813	14.262	ppbv	99
35) Carbon Tetrachloride	3.774	117	426619	16.146	ppbv	97
36) Benzene	3.667	78	553665	14.378	ppbv	100
37) 1,2-Dichloroethane	3.227	62	321362	14.859	ppbv	99
38) Trichloroethene	4.564	130	222328	14.543	ppbv	98
39) 1,2-Dichloropropane	4.328	63	191532	14.179	ppbv	98
40) 1,4-Dioxane	4.596	88	97521	14.305	ppbv #	93
41) Tetrahydrofuran	3.062	42	217707	14.953	ppbv	99
42) Bromodichloromethane	4.502	83	445130	15.351	ppbv	95
43) Methyl Methacrylate	4.894	69	214564	14.999	ppbv	99
44) 2,2,4-Trimethylpentane	4.655	57	909437	14.601	ppbv	100
45) t-1,3-Dichloropropene	6.435	75	218001	16.281	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041895.D
 Acq On : 14 Jan 2025 16:05
 Operator : SY/MD
 Sample : VSTDIC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 21:21:42 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Jan 14 16:31:18 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.619	75	281492	16.011	ppbv	98
47) 1,1,2-Trichloroethane	6.597	97	211658	14.782	ppbv	95
48) Dibromochloromethane	7.402	129	356392	16.134	ppbv	100
49) Bromoform	9.493	173	307617	16.953	ppbv	99
50) 4-Methyl-2-Pentanone	5.774	43	533053	14.653	ppbv	99
51) 2-Hexanone	7.451	43	430297	15.363	ppbv #	97
52) Tetrachloroethene	8.237	164	183208	13.721	ppbv	96
53) Toluene	6.949	91	634515	15.126	ppbv	99
54) 1,2-Dibromoethane	7.665	107	295967	15.036	ppbv	93
56) 1,1,1,2-Tetrachloroethane	8.937	131	280809	14.665	ppbv	98
57) Chlorobenzene	8.933	112	479092	13.533	ppbv	99
58) Ethyl Benzene	9.367	91	887072	14.789	ppbv	100
59) m/p-Xylene	9.565	91	1420585m	29.506	ppbv	
60) o-Xylene	9.976	91	704577	14.765	ppbv	100
61) Styrene	9.882	104	342490	15.999	ppbv	99
62) Isopropylbenzene	10.548	105	1063809	14.406	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.976	83	426347	14.194	ppbv	100
64) n-propylbenzene	10.998	120	266972	14.308	ppbv	100
65) tert-Butylbenzene	11.542	119	947297	14.077	ppbv	98
66) Benzyl Chloride	11.626	91	68623	16.475	ppbv	98
67) sec-Butylbenzene	11.778	105	1292858	13.952	ppbv	100
69) p-Isopropyltoluene	11.937	119	1089109	14.273	ppbv	99
70) n-Butylbenzene	12.290	91	1059002	13.994	ppbv	99
71) 2-Chlorotoluene	10.911	91	797555	14.601	ppbv	100
72) 4-Ethyltoluene	11.134	105	847451	14.846	ppbv	99
73) 1,3,5-Trimethylbenzene	11.215	105	733759	14.556	ppbv	96
74) 1,2,4-Trimethylbenzene	11.549	105	773569	14.170	ppbv	92
75) 1,3-Dichlorobenzene	11.620	146	443828	13.720	ppbv	99
76) 1,4-Dichlorobenzene	11.681	146	447164	14.129	ppbv	99
77) 1,2-Dichlorobenzene	11.956	146	429118	13.385	ppbv	99
78) Hexachloro-1,3-Butadiene	13.892	225	335016	12.731	ppbv	100
79) Naphthalene	13.523	128	724573	13.183	ppbv	99
80) Naphthalene,2-methyl-	14.468	142	278955	10.704	ppbv	99
81) 1,2,4-Trichlorobenzene	13.452	180	342977	12.784	ppbv	98

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

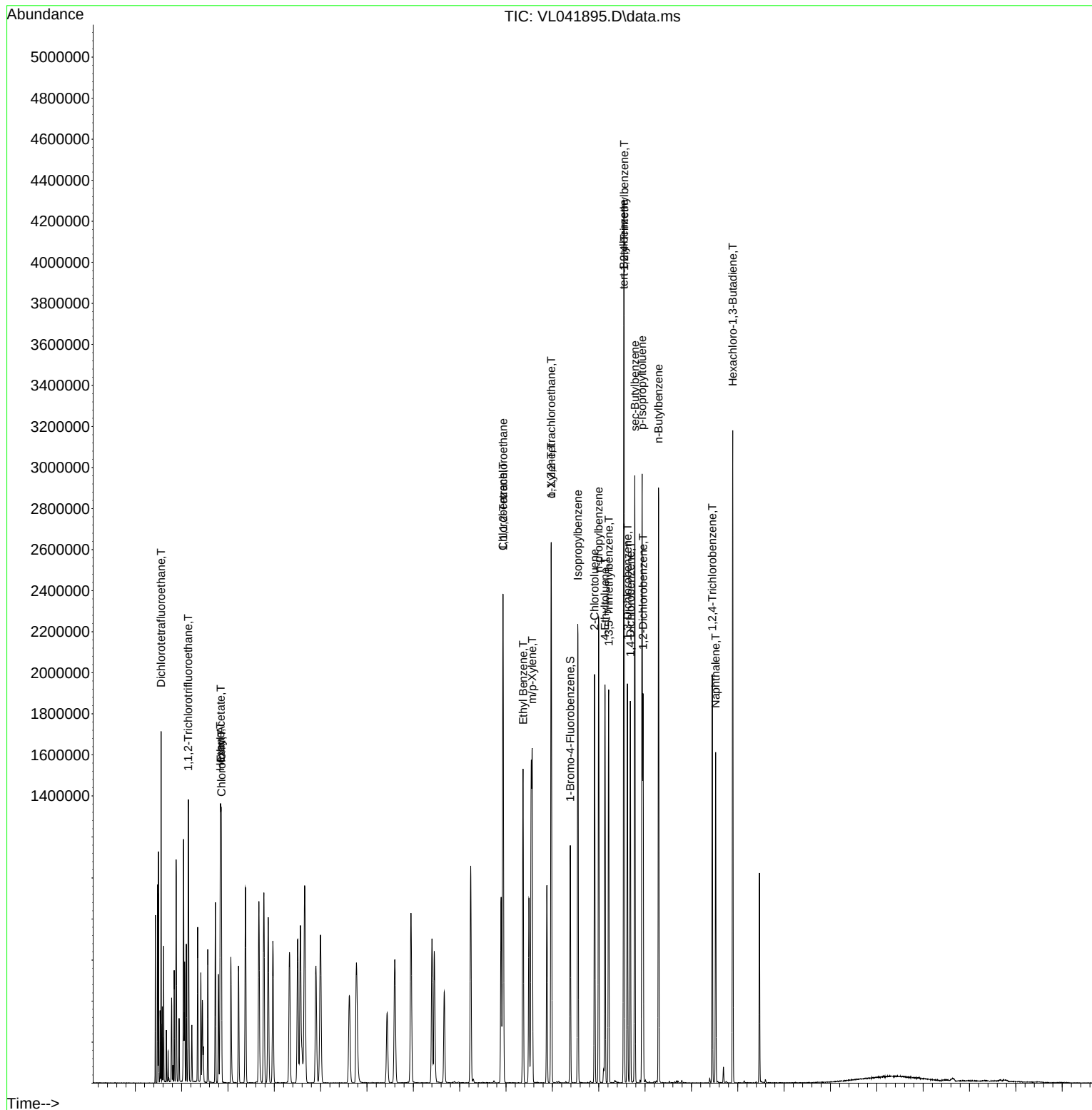
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041895.D
Acq On : 14 Jan 2025 16:05
Operator : SY/MD
Sample : VSTDIC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
Supervised By : Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 21:21:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041896.D
 Acq On : 14 Jan 2025 17:33
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL011425

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
 Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 15 03:23:15 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Jan 14 23:15:42 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.793	49	141664	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	417936	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	373391	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.387 95 298000 10.133 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	190925	9.894	ppbv	97
3) Chlorodifluoromethane	1.479	51	200455	9.916	ppbv	100
4) Chloromethane	1.534	50	71767	9.889	ppbv	95
5) Vinyl Chloride	1.583	62	71974	9.791	ppbv	94
6) Bromomethane	1.670	94	33594	9.589	ppbv	96
7) Chloroethane	1.706	64	29553	10.333	ppbv	100
8) Dichlorotetrafluoroethane	1.557	85	163783	9.712	ppbv	99
9) Propene	1.486	41	82320	9.886	ppbv	99
10) Heptane	4.998	43	225230	10.119	ppbv	99
11) Trichlorofluoromethane	1.881	101	198523	9.890	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.143	101	159862	10.162	ppbv	100
13) Ethanol	1.725	45	3780	6.197	ppbv	97
14) Bromoethene	1.784	108	57260	9.941	ppbv	98
15) Acetone	1.839	43	150112	8.822	ppbv	98
16) 1,3-Butadiene	1.612	39	73640	9.643	ppbv	100
17) tert-Butyl alcohol	2.046	59	204358	9.758	ppbv	98
18) 1,1-Dichloroethene	2.039	96	71011	10.015	ppbv	96
19) Isopropyl Alcohol	1.890	45	93592	9.277	ppbv	97
20) Methylene Chloride	2.065	84	60115	8.940	ppbv	97
21) Allyl Chloride	2.101	41	118907	10.092	ppbv	97
22) trans-1,2-Dichloroethene	2.347	96	77379	9.669	ppbv	96
23) Vinyl Acetate	2.470	43	80428	9.536	ppbv #	95
24) 1,1-Dichloroethane	2.415	63	155440	10.042	ppbv	98
25) Ethyl Acetate	2.842	43	458484	9.993	ppbv	100
26) Hexane	2.832	57	184436	10.164	ppbv	99
27) Carbon Disulfide	2.156	76	186668	10.395	ppbv	98
28) Methyl tert-Butyl Ether	2.447	73	112489	8.110	ppbv	99
29) Chloroform	2.855	83	282467	9.847	ppbv	99
30) Cyclohexane	3.865	84	159296	10.120	ppbv	99
31) cis-1,2-Dichloroethene	2.729	61	187012	9.787	ppbv	97
32) 1,1,1-Trichloroethane	3.376	97	284661	10.371	ppbv	99
34) 2-Butanone	2.564	43	261536	9.840	ppbv	99
35) Carbon Tetrachloride	3.771	117	285391	10.871	ppbv	96
36) Benzene	3.667	78	374271	9.764	ppbv	99
37) 1,2-Dichloroethane	3.227	62	214545	9.966	ppbv	100
38) Trichloroethene	4.564	130	153255	10.075	ppbv	95
39) 1,2-Dichloropropane	4.324	63	130483	9.704	ppbv	97
40) 1,4-Dioxane	4.599	88	63736	9.386	ppbv #	99
41) Tetrahydrofuran	3.062	42	148132	10.255	ppbv	98
42) Bromodichloromethane	4.506	83	299656	10.381	ppbv	96
43) Methyl Methacrylate	4.894	69	145663	10.229	ppbv	100
44) 2,2,4-Trimethylpentane	4.654	57	619804	9.997	ppbv	100
45) t-1,3-Dichloropropene	6.428	75	145145	10.889	ppbv	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041896.D
 Acq On : 14 Jan 2025 17:33
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL011425

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

Quant Time: Jan 15 03:23:15 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Jan 14 23:15:42 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.616	75	186898	10.680	ppbv	98
47) 1,1,2-Trichloroethane	6.596	97	140891	9.886	ppbv	97
48) Dibromochloromethane	7.399	129	238244	10.835	ppbv	100
49) Bromoform	9.493	173	201141	11.136	ppbv	99
50) 4-Methyl-2-Pentanone	5.771	43	363675	10.023	ppbv	99
51) 2-Hexanone	7.451	43	284058	10.189	ppbv #	99
52) Tetrachloroethene	8.237	164	127806	9.616	ppbv	98
53) Toluene	6.949	91	427033	10.227	ppbv	99
54) 1,2-Dibromoethane	7.665	107	199339	10.175	ppbv	95
56) 1,1,1,2-Tetrachloroethane	8.937	131	188209	10.103	ppbv	99
57) Chlorobenzene	8.933	112	329025	9.553	ppbv	99
58) Ethyl Benzene	9.364	91	601857	10.314	ppbv	99
59) m/p-Xylene	9.561	91	964838m	20.628	ppbv	
60) o-Xylene	9.972	91	480442	10.348	ppbv	100
61) Styrene	9.878	104	229797	11.034	ppbv	99
62) Isopropylbenzene	10.548	105	728189	10.136	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.972	83	290998	9.809	ppbv	100
64) n-propylbenzene	10.998	120	182397	10.048	ppbv	98
65) tert-Butylbenzene	11.539	119	657521	10.043	ppbv	100
66) Benzyl Chloride	11.623	91	42509	10.490	ppbv #	97
67) sec-Butylbenzene	11.778	105	901260	9.997	ppbv	98
69) p-Isopropyltoluene	11.934	119	745566	10.043	ppbv	99
70) n-Butylbenzene	12.290	91	733637	9.965	ppbv	99
71) 2-Chlorotoluene	10.911	91	543858	10.234	ppbv	100
72) 4-Ethyltoluene	11.134	105	568921	10.245	ppbv	99
73) 1,3,5-Trimethylbenzene	11.212	105	493388	10.061	ppbv	99
74) 1,2,4-Trimethylbenzene	11.545	105	528225	9.946	ppbv	98
75) 1,3-Dichlorobenzene	11.617	146	304133	9.664	ppbv	99
76) 1,4-Dichlorobenzene	11.681	146	297765	9.670	ppbv	99
77) 1,2-Dichlorobenzene	11.956	146	298039	9.555	ppbv	99
78) Hexachloro-1,3-Butadiene	13.889	225	228592	8.929	ppbv	99
79) Naphthalene	13.523	128	497063	9.295	ppbv	99
80) Naphthalene,2-methyl-	14.468	142	187571	7.398	ppbv	98
81) 1,2,4-Trichlorobenzene	13.448	180	236181	9.049	ppbv	99

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

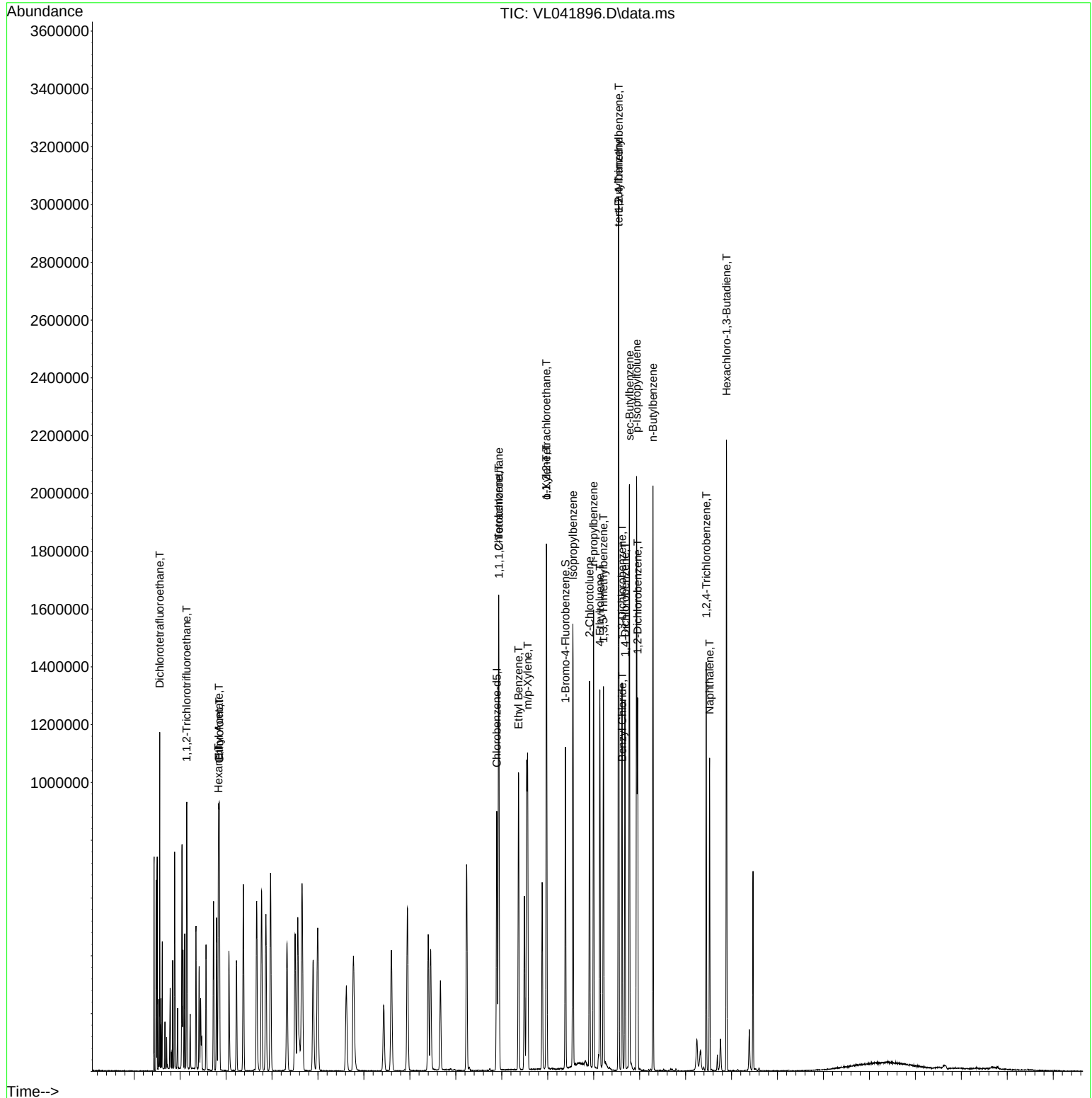
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041896.D
Acq On : 14 Jan 2025 17:33
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL011425

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 15 03:23:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041896.D
 Acq On : 14 Jan 2025 17:33
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL011425

Quant Time: Jan 15 03:23:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jan 14 23:15:42 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	93	0.00
2 T	Dichlorodifluoromethane	1.362	1.348	1.0	96	0.00
3	Chlorodifluoromethane	1.427	1.415	0.8	99	0.00
4	Chloromethane	0.512	0.507	1.0	96	0.00
5 T	Vinyl Chloride	0.519	0.508	2.1	101	0.00
6 T	Bromomethane	0.247	0.237	4.0	96	0.00
7	Chloroethane	0.202	0.209	-3.5	101	0.00
8 T	Dichlorotetrafluoroethane	1.190	1.156	2.9	98	0.00
9 T	Propene	0.588	0.581	1.2	95	0.00
10 T	Heptane	1.571	1.590	-1.2	97	0.00
11 T	Trichlorofluoromethane	1.417	1.401	1.1	98	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.110	1.128	-1.6	99	0.00
13	Ethanol	0.043	0.027#	37.2#	91	0.00
14 T	Bromoethene	0.407	0.404	0.7	101	0.00
15 T	Acetone	1.201	1.060	11.7	99	0.00
16 T	1,3-Butadiene	0.539	0.520	3.5	98	0.00
17	tert-Butyl alcohol	1.478	1.443	2.4	96	0.00
18 T	1,1-Dichloroethene	0.501	0.501	0.0	102	0.00
19 T	Isopropyl Alcohol	0.712	0.661	7.2	99	0.00
20 T	Methylene Chloride	0.475	0.424	10.7	101	0.00
21 T	Allyl Chloride	0.832	0.839	-0.8	99	0.00
22 T	trans-1,2-Dichloroethene	0.565	0.546	3.4	94	0.00
23 T	Vinyl Acetate	0.595	0.568	4.5	98	0.00
24 T	1,1-Dichloroethane	1.093	1.097	-0.4	100	0.00
25 T	Ethyl Acetate	3.239	3.236	0.1	97	0.00
26 T	Hexane	1.281	1.302	-1.6	96	0.00
27 T	Carbon Disulfide	1.268	1.318	-3.9	97	0.00
28 T	Methyl tert-Butyl Ether	0.979	0.794	18.9	95	0.00
29 T	Chloroform	2.025	1.994	1.5	97	0.00
30 T	Cyclohexane	1.111	1.124	-1.2	97	0.00
31 T	cis-1,2-Dichloroethene	1.349	1.320	2.1	97	0.00
32 T	1,1,1-Trichloroethane	1.938	2.009	-3.7	98	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	93	0.00
34 T	2-Butanone	0.636	0.626	1.6	97	0.00
35 T	Carbon Tetrachloride	0.628	0.683	-8.8	98	0.00
36 T	Benzene	0.917	0.896	2.3	94	0.00
37 T	1,2-Dichloroethane	0.515	0.513	0.4	97	0.00
38 T	Trichloroethene	0.364	0.367	-0.8	96	0.00
39 T	1,2-Dichloropropane	0.322	0.312	3.1	95	0.00
40 T	1,4-Dioxane	0.162	0.153	5.6	96	0.00
41 T	Tetrahydrofuran	0.346	0.354	-2.3	95	0.00
42 T	Bromodichloromethane	0.691	0.717	-3.8	98	0.00
43	Methyl Methacrylate	0.341	0.349	-2.3	96	0.00
44 T	2,2,4-Trimethylpentane	1.484	1.483	0.1	95	0.00
45 T	t-1,3-Dichloropropene	0.319	0.347	-8.8	96	0.00
46 T	cis-1,3-Dichloropropene	0.419	0.447	-6.7	93	0.00
47 T	1,1,2-Trichloroethane	0.341	0.337	1.2	94	0.00
48 T	Dibromochloromethane	0.526	0.570	-8.4	97	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041896.D
 Acq On : 14 Jan 2025 17:33
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL011425

Quant Time: Jan 15 03:23:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jan 14 23:15:42 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	Bromoform	0.432	0.481	-11.3	97	0.00
50 T	4-Methyl-2-Pentanone	0.868	0.870	-0.2	97	0.00
51 T	2-Hexanone	0.667	0.680	-1.9	97	0.00
52 T	Tetrachloroethene	0.318	0.306	3.8	97	0.00
53 T	Toluene	0.999	1.022	-2.3	94	0.00
54 T	1,2-Dibromoethane	0.469	0.477	-1.7	98	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	93	0.00
56	1,1,1,2-Tetrachloroethane	0.499	0.504	-1.0	98	0.00
57 T	Chlorobenzene	0.922	0.881	4.4	97	0.00
58 T	Ethyl Benzene	1.563	1.612	-3.1	97	0.00
59 T	m/p-Xylene	1.253	1.292	-3.1	99	0.00
60 T	o-Xylene	1.243	1.287	-3.5	98	0.00
61 T	Styrene	0.558	0.615	-10.2	98	0.00
62	Isopropylbenzene	1.924	1.950	-1.4	98	0.00
63 T	1,1,2,2-Tetrachloroethane	0.795	0.779	2.0	97	0.00
64	n-propylbenzene	0.486	0.488	-0.4	97	0.00
65	tert-Butylbenzene	1.753	1.761	-0.5	98	0.00
66 T	Benzyl Chloride	0.109	0.114	-4.6	92	0.00
67	sec-Butylbenzene	2.414	2.414	0.0	98	0.00
68 S	1-Bromo-4-Fluorobenzene	0.788	0.798	-1.3	95	0.00
69	p-Isopropyltoluene	1.988	1.997	-0.5	97	0.00
70	n-Butylbenzene	1.972	1.965	0.4	97	0.00
71	2-Chlorotoluene	1.423	1.457	-2.4	98	0.00
72 T	4-Ethyltoluene	1.487	1.524	-2.5	97	0.00
73 T	1,3,5-Trimethylbenzene	1.313	1.321	-0.6	98	0.00
74 T	1,2,4-Trimethylbenzene	1.422	1.415	0.5	98	0.00
75 T	1,3-Dichlorobenzene	0.843	0.815	3.3	98	0.00
76 T	1,4-Dichlorobenzene	0.825	0.797	3.4	97	0.00
77 T	1,2-Dichlorobenzene	0.835	0.798	4.4	98	0.00
78 T	Hexachloro-1,3-Butadiene	0.686	0.612	10.8	97	0.00
79 T	Naphthalene	1.432	1.331	7.1	99	0.00
80 T	Naphthalene,2-methyl-	0.679	0.502	26.1	101	0.00
81 T	1,2,4-Trichlorobenzene	0.699	0.633	9.4	99	0.00

(#) = Out of Range

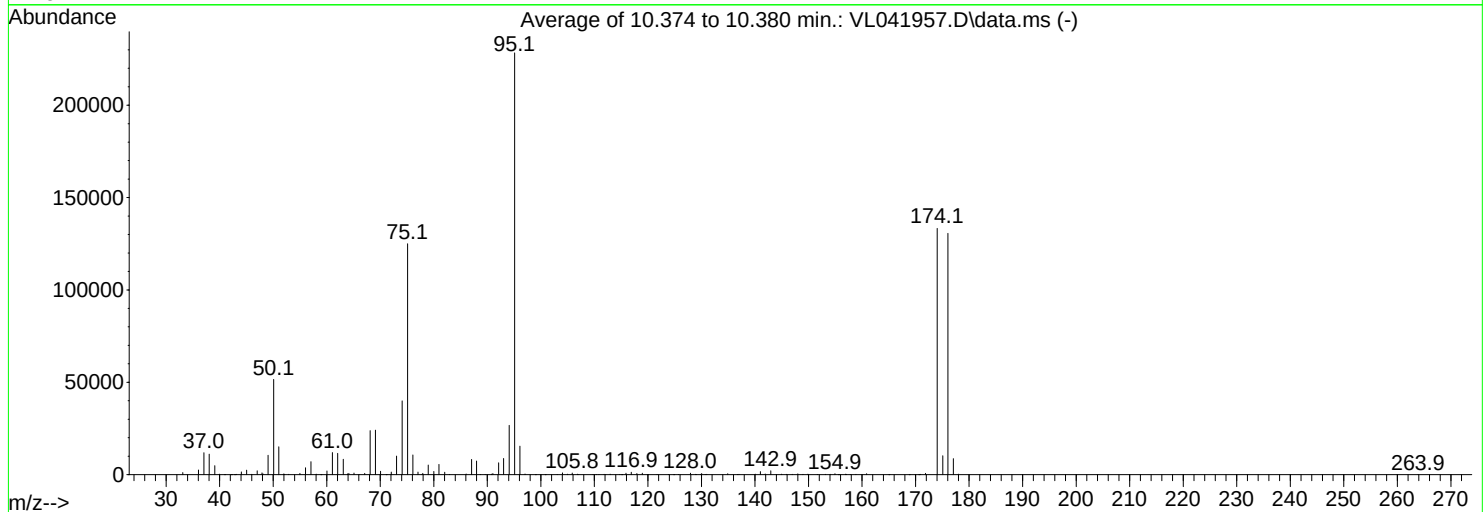
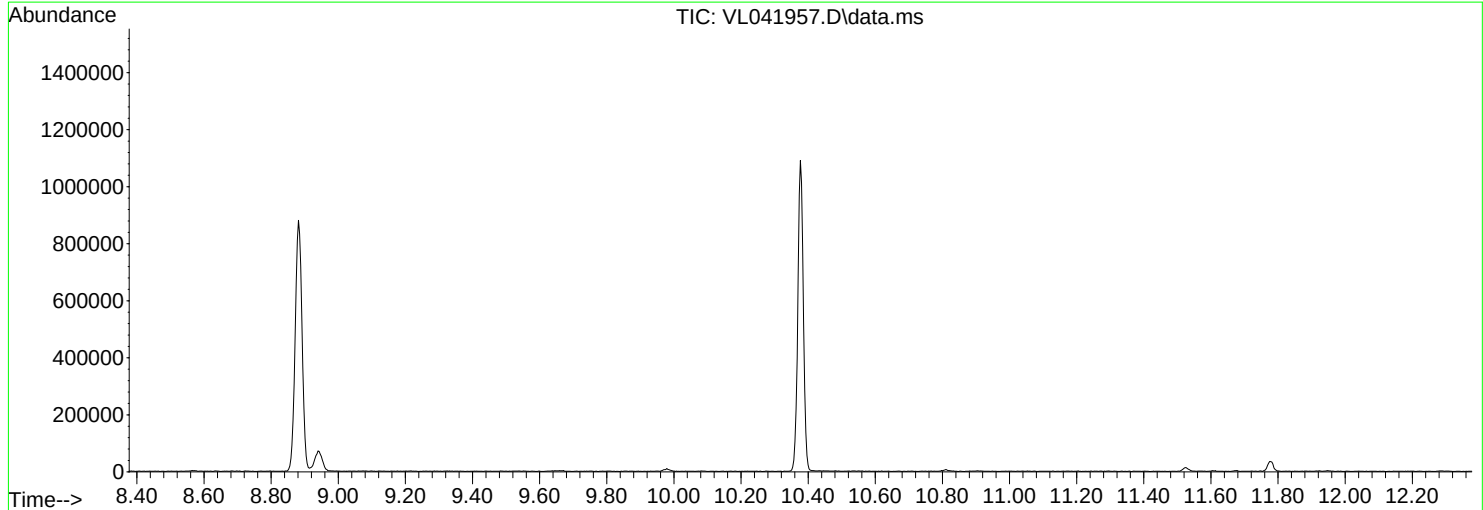
SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
Data File : VL041957.D
Acq On : 03 Feb 2025 09:47
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Tue Jan 14 23:15:42 2025



AutoFind: Scans 3178, 3179, 3180; Background Corrected with Scan 3165

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	8	40	22.6	51539	PASS
75	95	30	66	54.7	125019	PASS
95	95	100	100	100.0	228352	PASS
96	95	5	9	6.8	15439	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	58.4	133352	PASS
175	174	4	9	7.7	10244	PASS
176	174	93	101	98.0	130661	PASS
177	176	5	9	6.6	8641	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
 Data File : VL041958.D
 Acq On : 03 Feb 2025 10:48
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 02/04/2025
 Supervised By : Mahesh Dadoda 02/04/2025

Quant Time: Feb 04 02:30:31 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Jan 14 23:15:42 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.791	49	157470	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	429487	10.000	ppbv	-0.01
55) Chlorobenzene-d5	8.885	117	371333	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.381 95 289698 9.905 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 99.100%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	218366	10.181	ppbv	100
3) Chlorodifluoromethane	1.477	51	231387	10.298	ppbv	99
4) Chloromethane	1.535	50	86482	10.721	ppbv	97
5) Vinyl Chloride	1.580	62	83248	10.188	ppbv	98
6) Bromomethane	1.667	94	38248	9.822	ppbv	99
7) Chloroethane	1.706	64	34164	10.747	ppbv	99
8) Dichlorotetrafluoroethane	1.554	85	186350	9.941	ppbv	99
9) Propene	1.483	41	95902	10.361	ppbv	98
10) Heptane	4.985	43	266975	10.790	ppbv	97
11) Trichlorofluoromethane	1.878	101	212261	9.513	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.140	101	162930	9.317	ppbv	99
13) Ethanol	1.722	45	4416	6.513	ppbv	99
14) Bromoethene	1.784	108	60620	9.468	ppbv	100
15) Acetone	1.836	43	176459	9.330	ppbv	99
16) 1,3-Butadiene	1.609	39	86792	10.224	ppbv	99
17) tert-Butyl alcohol	2.043	59	206522	8.872	ppbv	99
18) 1,1-Dichloroethene	2.036	96	74437	9.444	ppbv	93
19) Isopropyl Alcohol	1.888	45	101008	9.007	ppbv	94
20) Methylene Chloride	2.062	84	62977	8.426	ppbv	95
21) Allyl Chloride	2.098	41	126741	9.677	ppbv	98
22) trans-1,2-Dichloroethene	2.344	96	86281	9.700	ppbv	97
23) Vinyl Acetate	2.467	43	84390	9.001	ppbv #	98
24) 1,1-Dichloroethane	2.412	63	171515	9.969	ppbv	100
25) Ethyl Acetate	2.839	43	552271	10.829	ppbv	100
26) Hexane	2.829	57	216097	10.713	ppbv	95
27) Carbon Disulfide	2.153	76	200432	10.041	ppbv	99
28) Methyl tert-Butyl Ether	2.444	73	149839	9.719	ppbv	100
29) Chloroform	2.852	83	333879	10.471	ppbv	100
30) Cyclohexane	3.862	84	183180	10.470	ppbv	98
31) cis-1,2-Dichloroethene	2.723	61	208686	9.825	ppbv	95
32) 1,1,1-Trichloroethane	3.370	97	318650	10.444	ppbv	99
34) 2-Butanone	2.561	43	312946	11.458	ppbv	99
35) Carbon Tetrachloride	3.765	117	320703	11.888	ppbv	99
36) Benzene	3.661	78	444350	11.280	ppbv	97
37) 1,2-Dichloroethane	3.221	62	241263	10.905	ppbv	99
38) Trichloroethene	4.551	130	175365	11.218	ppbv	90
39) 1,2-Dichloropropane	4.322	63	155514	11.255	ppbv	98
40) 1,4-Dioxane	4.590	88	74675	10.701	ppbv #	97
41) Tetrahydrofuran	3.059	42	174208	11.736	ppbv	98
42) Bromodichloromethane	4.496	83	344670	11.620	ppbv	96
43) Methyl Methacrylate	4.888	69	156216	10.675	ppbv	95
44) 2,2,4-Trimethylpentane	4.645	57	751181	11.790	ppbv	99
45) t-1,3-Dichloropropene	6.425	75	148089	10.811	ppbv	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
 Data File : VL041958.D
 Acq On : 03 Feb 2025 10:48
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 02/04/2025
 Supervised By : Mahesh Dadoda 02/04/2025

Quant Time: Feb 04 02:30:31 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Jan 14 23:15:42 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.610	75	202762	11.274	ppbv	99
47) 1,1,2-Trichloroethane	6.590	97	167097	11.410	ppbv	98
48) Dibromochloromethane	7.393	129	269437	11.924	ppbv	99
49) Bromoform	9.487	173	225054	12.125	ppbv	100
50) 4-Methyl-2-Pentanone	5.762	43	428753	11.499	ppbv	98
51) 2-Hexanone	7.445	43	336693	11.752	ppbv #	96
52) Tetrachloroethene	8.231	164	139466	10.211	ppbv	95
53) Toluene	6.940	91	483814	11.275	ppbv	100
54) 1,2-Dibromoethane	7.659	107	229203	11.384	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.931	131	220185	11.885	ppbv	99
57) Chlorobenzene	8.927	112	386374	11.280	ppbv	98
58) Ethyl Benzene	9.358	91	669174	11.531	ppbv	97
59) m/p-Xylene	9.555	91	1106231m	23.782	ppbv	
60) o-Xylene	9.969	91	555194	12.025	ppbv	98
61) Styrene	9.876	104	246355	11.895	ppbv	99
62) Isopropylbenzene	10.542	105	834260	11.677	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.966	83	362310	12.280	ppbv	99
64) n-propylbenzene	10.992	120	215585	11.942	ppbv	98
65) tert-Butylbenzene	11.536	119	746398	11.464	ppbv	99
66) Benzyl Chloride	11.620	91	44973	11.160	ppbv	98
67) sec-Butylbenzene	11.772	105	1044912	11.655	ppbv	100
69) p-Isopropyltoluene	11.931	119	867909	11.756	ppbv	99
70) n-Butylbenzene	12.284	91	848499	11.589	ppbv	100
71) 2-Chlorotoluene	10.905	91	615388	11.644	ppbv	98
72) 4-Ethyltoluene	11.128	105	658660	11.926	ppbv	100
73) 1,3,5-Trimethylbenzene	11.209	105	566361	11.613	ppbv	96
74) 1,2,4-Trimethylbenzene	11.542	105	616177	11.666	ppbv	90
75) 1,3-Dichlorobenzene	11.614	146	357966	11.437	ppbv	99
76) 1,4-Dichlorobenzene	11.675	146	352145	11.500	ppbv	100
77) 1,2-Dichlorobenzene	11.950	146	355386	11.457	ppbv	100
78) Hexachloro-1,3-Butadiene	13.886	225	247691	9.729	ppbv	99
79) Naphthalene	13.517	128	553420	10.407	ppbv	99
80) Naphthalene,2-methyl-	14.465	142	173813	6.894	ppbv	97
81) 1,2,4-Trichlorobenzene	13.446	180	251038	9.671	ppbv	98

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
 Data File : VL041958.D
 Acq On : 03 Feb 2025 10:48
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Feb 04 02:30:31 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jan 14 23:15:42 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	103	0.00
2 T	Dichlorodifluoromethane	1.362	1.387	-1.8	110	0.00
3	Chlorodifluoromethane	1.427	1.469	-2.9	114	0.00
4	Chloromethane	0.512	0.549	-7.2	115	0.00
5 T	Vinyl Chloride	0.519	0.529	-1.9	117	0.00
6 T	Bromomethane	0.247	0.243	1.6	110	0.00
7	Chloroethane	0.202	0.217	-7.4	116	0.00
8 T	Dichlorotetrafluoroethane	1.190	1.183	0.6	112	0.00
9 T	Propene	0.588	0.609	-3.6	111	0.00
10 T	Heptane	1.571	1.695	-7.9	115	-0.02
11 T	Trichlorofluoromethane	1.417	1.348	4.9	104	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.110	1.035	6.8	101	0.00
13	Ethanol	0.043	0.028#	34.9#	106	0.00
14 T	Bromoethene	0.407	0.385	5.4	107	0.00
15 T	Acetone	1.201	1.121	6.7	117	0.00
16 T	1,3-Butadiene	0.539	0.551	-2.2	115	0.00
17	tert-Butyl alcohol	1.478	1.312	11.2	97	0.00
18 T	1,1-Dichloroethene	0.501	0.473	5.6	107	0.00
19 T	Isopropyl Alcohol	0.712	0.641	10.0	107	0.00
20 T	Methylene Chloride	0.475	0.400	15.8	106	0.00
21 T	Allyl Chloride	0.832	0.805	3.2	105	0.00
22 T	trans-1,2-Dichloroethene	0.565	0.548	3.0	105	0.00
23 T	Vinyl Acetate	0.595	0.536	9.9	103	0.00
24 T	1,1-Dichloroethane	1.093	1.089	0.4	111	0.00
25 T	Ethyl Acetate	3.239	3.507	-8.3	117	0.00
26 T	Hexane	1.281	1.372	-7.1	113	0.00
27 T	Carbon Disulfide	1.268	1.273	-0.4	105	0.00
28 T	Methyl tert-Butyl Ether	0.979	0.952	2.8	127	0.00
29 T	Chloroform	2.025	2.120	-4.7	115	0.00
30 T	Cyclohexane	1.111	1.163	-4.7	111	0.00
31 T	cis-1,2-Dichloroethene	1.349	1.325	1.8	108	0.00
32 T	1,1,1-Trichloroethane	1.938	2.024	-4.4	110	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	96	-0.01
34 T	2-Butanone	0.636	0.729	-14.6	116	0.00
35 T	Carbon Tetrachloride	0.628	0.747	-18.9	110	-0.01
36 T	Benzene	0.917	1.035	-12.9	112	0.00
37 T	1,2-Dichloroethane	0.515	0.562	-9.1	109	0.00
38 T	Trichloroethene	0.364	0.408	-12.1	110	-0.01
39 T	1,2-Dichloropropane	0.322	0.362	-12.4	113	0.00
40 T	1,4-Dioxane	0.162	0.174	-7.4	113	-0.02
41 T	Tetrahydrofuran	0.346	0.406	-17.3	112	0.00
42 T	Bromodichloromethane	0.691	0.803	-16.2	112	-0.01
43	Methyl Methacrylate	0.341	0.364	-6.7	103	0.00
44 T	2,2,4-Trimethylpentane	1.484	1.749	-17.9	115	-0.01
45 T	t-1,3-Dichloropropene	0.319	0.345	-8.2	97	0.00
46 T	cis-1,3-Dichloropropene	0.419	0.472	-12.6	101	-0.01
47 T	1,1,2-Trichloroethane	0.341	0.389	-14.1	112	0.00
48 T	Dibromochloromethane	0.526	0.627	-19.2	110	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
 Data File : VL041958.D
 Acq On : 03 Feb 2025 10:48
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Feb 04 02:30:31 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jan 14 23:15:42 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	Bromoform	0.432	0.524	-21.3	109	0.00
50 T	4-Methyl-2-Pentanone	0.868	0.998	-15.0	115	-0.02
51 T	2-Hexanone	0.667	0.784	-17.5	115	0.00
52 T	Tetrachloroethene	0.318	0.325	-2.2	106	0.00
53 T	Toluene	0.999	1.126	-12.7	107	-0.01
54 T	1,2-Dibromoethane	0.469	0.534	-13.9	112	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	93	0.00
56	1,1,1,2-Tetrachloroethane	0.499	0.593	-18.8	114	0.00
57 T	Chlorobenzene	0.922	1.041	-12.9	114	0.00
58 T	Ethyl Benzene	1.563	1.802	-15.3	108	0.00
59 T	m/p-Xylene	1.253	1.490	-18.9	113	0.00
60 T	o-Xylene	1.243	1.495	-20.3	113	0.00
61 T	Styrene	0.558	0.663	-18.8	105	0.00
62	Isopropylbenzene	1.924	2.247	-16.8	112	0.00
63 T	1,1,2,2-Tetrachloroethane	0.795	0.976	-22.8	121	0.00
64	n-propylbenzene	0.486	0.581	-19.5	115	0.00
65	tert-Butylbenzene	1.753	2.010	-14.7	111	0.00
66 T	Benzyl Chloride	0.109	0.121	-11.0	98	0.00
67	sec-Butylbenzene	2.414	2.814	-16.6	114	0.00
68 S	1-Bromo-4-Fluorobenzene	0.788	0.780	1.0	92	0.00
69	p-Isopropyltoluene	1.988	2.337	-17.6	113	0.00
70	n-Butylbenzene	1.972	2.285	-15.9	112	0.00
71	2-Chlorotoluene	1.423	1.657	-16.4	111	0.00
72 T	4-Ethyltoluene	1.487	1.774	-19.3	112	0.00
73 T	1,3,5-Trimethylbenzene	1.313	1.525	-16.1	112	0.00
74 T	1,2,4-Trimethylbenzene	1.422	1.659	-16.7	114	0.00
75 T	1,3-Dichlorobenzene	0.843	0.964	-14.4	115	0.00
76 T	1,4-Dichlorobenzene	0.825	0.948	-14.9	114	0.00
77 T	1,2-Dichlorobenzene	0.835	0.957	-14.6	117	0.00
78 T	Hexachloro-1,3-Butadiene	0.686	0.667	2.8	106	0.00
79 T	Naphthalene	1.432	1.490	-4.1	110	0.00
80 T	Naphthalene,2-methyl-	0.679	0.468	31.1#	94	0.00
81 T	1,2,4-Trichlorobenzene	0.699	0.676	3.3	105	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
 Data File : VL041960.D
 Acq On : 03 Feb 2025 12:05
 Operator : SY/MD
 Sample : VL0203ABL02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0203ABL02

Quant Time: Feb 04 02:33:07 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jan 14 23:15:42 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	151198	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	407814	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	347345	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	262058	9.579	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.800%

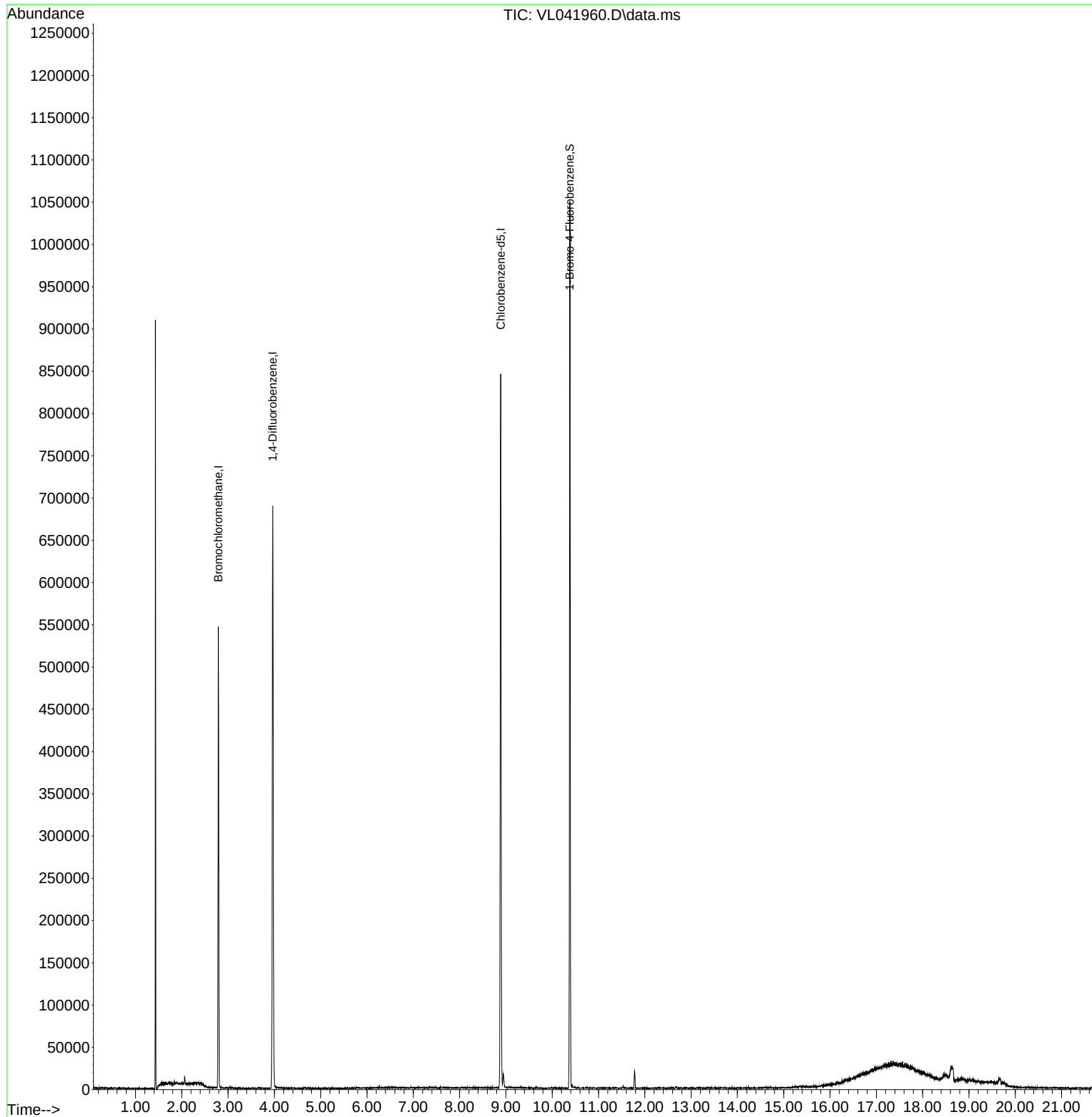
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
Data File : VL041960.D
Acq On : 03 Feb 2025 12:05
Operator : SY/MD
Sample : VL0203ABL02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0203ABL02

Quant Time: Feb 04 02:33:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
 Data File : VL041961.D
 Acq On : 03 Feb 2025 12:57
 Operator : SY/MD
 Sample : VL0203ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0203ABS01

Quant Time: Feb 04 02:34:05 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Jan 14 23:15:42 2025

Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 02/04/2025
 Supervised By : Mahesh Dadoda 02/04/2025

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

Internal Standards						
1) Bromochloromethane	2.790	49	152847	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	418895	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	367437	10.000	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.380	95	287209	9.924	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.200%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	203280	9.764	ppbv	99
3) Chlorodifluoromethane	1.476	51	225433	10.336	ppbv	99
4) Chloromethane	1.535	50	81880	10.457	ppbv	94
5) Vinyl Chloride	1.583	62	77713	9.799	ppbv	98
6) Bromomethane	1.670	94	36640	9.694	ppbv	88
7) Chloroethane	1.706	64	31280	10.137	ppbv	94
8) Dichlorotetrafluoroethane	1.557	85	179670	9.875	ppbv	98
9) Propene	1.486	41	91411	10.174	ppbv	99
10) Heptane	4.985	43	161638	6.731	ppbv	99
11) Trichlorofluoromethane	1.881	101	201683	9.312	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.143	101	164938	9.717	ppbv	98
13) Ethanol	1.722	45	4592	6.978	ppbv	91
14) Bromoethene	1.784	108	57833	9.306	ppbv	99
15) Acetone	1.839	43	165826	9.033	ppbv	98
16) 1,3-Butadiene	1.609	39	83163	10.093	ppbv	98
17) tert-Butyl alcohol	2.043	59	198776	8.797	ppbv	98
18) 1,1-Dichloroethene	2.036	96	70323	9.192	ppbv	97
19) Isopropyl Alcohol	1.891	45	99004	9.096	ppbv	95
20) Methylene Chloride	2.065	84	62278	8.584	ppbv	99
21) Allyl Chloride	2.098	41	122853	9.664	ppbv	98
22) trans-1,2-Dichloroethene	2.344	96	85089	9.855	ppbv	98
23) Vinyl Acetate	2.467	43	86919	9.552	ppbv #	96
24) 1,1-Dichloroethane	2.412	63	166034	9.942	ppbv	99
25) Ethyl Acetate	2.842	43	536156	10.831	ppbv	100
26) Hexane	2.832	57	210051	10.728	ppbv	95
27) Carbon Disulfide	2.153	76	198444	10.242	ppbv	99
28) Methyl tert-Butyl Ether	2.444	73	110198	7.364	ppbv	99
29) Chloroform	2.855	83	325966	10.532	ppbv	96
30) Cyclohexane	3.865	84	173840	10.236	ppbv	98
31) cis-1,2-Dichloroethene	2.726	61	204611	9.925	ppbv	95
32) 1,1,1-Trichloroethane	3.376	97	305623	10.320	ppbv	99
34) 2-Butanone	2.564	43	302190	11.344	ppbv	99
35) Carbon Tetrachloride	3.768	117	309917	11.778	ppbv	97
36) Benzene	3.664	78	426241	11.094	ppbv	99
37) 1,2-Dichloroethane	3.224	62	235620	10.920	ppbv	99
38) Trichloroethene	4.554	130	167629	10.995	ppbv	97
39) 1,2-Dichloropropane	4.318	63	151232	11.221	ppbv	97
40) 1,4-Dioxane	4.590	88	74021	10.876	ppbv #	100
41) Tetrahydrofuran	3.062	42	169798	11.728	ppbv	98
42) Bromodichloromethane	4.496	83	335595	11.600	ppbv	98
43) Methyl Methacrylate	4.884	69	102724	7.197	ppbv	96
44) 2,2,4-Trimethylpentane	4.648	57	725196	11.670	ppbv	99
45) t-1,3-Dichloropropene	6.422	75	145441	10.886	ppbv	94

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
 Data File : VL041961.D
 Acq On : 03 Feb 2025 12:57
 Operator : SY/MD
 Sample : VL0203ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0203ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/04/2025
 Supervised By :Mahesh Dadoda 02/04/2025

Quant Time: Feb 04 02:34:05 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Jan 14 23:15:42 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	122518	6.985	ppbv	98
47) 1,1,2-Trichloroethane	6.590	97	167038	11.694	ppbv	95
48) Dibromochloromethane	7.390	129	260120	11.803	ppbv	100
49) Bromoform	9.487	173	217089	11.991	ppbv	99
50) 4-Methyl-2-Pentanone	5.765	43	267280	7.350	ppbv	98
51) 2-Hexanone	7.445	43	328817	11.767	ppbv #	96
52) Tetrachloroethene	8.225	164	136143	10.220	ppbv	97
53) Toluene	6.936	91	469033	11.207	ppbv	99
54) 1,2-Dibromoethane	7.655	107	222983	11.356	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.927	131	214758	11.715	ppbv	99
57) Chlorobenzene	8.924	112	382465	11.284	ppbv	99
58) Ethyl Benzene	9.357	91	646825	11.264	ppbv	98
59) m/p-Xylene	9.555	91	1068374m	23.212	ppbv	
60) o-Xylene	9.966	91	537558	11.766	ppbv	98
61) Styrene	9.872	104	239767	11.699	ppbv	98
62) Isopropylbenzene	10.542	105	802003	11.345	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.966	83	357905	12.260	ppbv	100
64) n-propylbenzene	10.992	120	208748	11.686	ppbv	99
65) tert-Butylbenzene	11.536	119	731901	11.360	ppbv	99
66) Benzyl Chloride	11.620	91	41013	10.285	ppbv	97
67) sec-Butylbenzene	11.772	105	1015579	11.448	ppbv	99
69) p-Isopropyltoluene	11.931	119	836492	11.451	ppbv	98
70) n-Butylbenzene	12.290	91	824000	11.374	ppbv	100
71) 2-Chlorotoluene	10.905	91	592446	11.329	ppbv	99
72) 4-Ethyltoluene	11.131	105	634050	11.602	ppbv	99
73) 1,3,5-Trimethylbenzene	11.209	105	551677	11.432	ppbv	97
74) 1,2,4-Trimethylbenzene	11.542	105	602744	11.533	ppbv	96
75) 1,3-Dichlorobenzene	11.613	146	348392	11.249	ppbv	99
76) 1,4-Dichlorobenzene	11.678	146	344428	11.367	ppbv	99
77) 1,2-Dichlorobenzene	11.953	146	350456	11.418	ppbv	98
78) Hexachloro-1,3-Butadiene	13.892	225	239328	9.500	ppbv	99
79) Naphthalene	13.523	128	539332	10.249	ppbv	98
80) Naphthalene,2-methyl-	14.468	142	172189	6.902	ppbv	97
81) 1,2,4-Trichlorobenzene	13.452	180	244059	9.502	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
 Data File : VL041966.D
 Acq On : 03 Feb 2025 16:02
 Operator : SY/MD
 Sample : QC012825 CAN 10439
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 QC012825 CAN 10439

Quant Time: Feb 04 02:38:09 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jan 14 23:15:42 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.793	49	146182	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	402503	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	341049	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	256800	9.560	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.600%

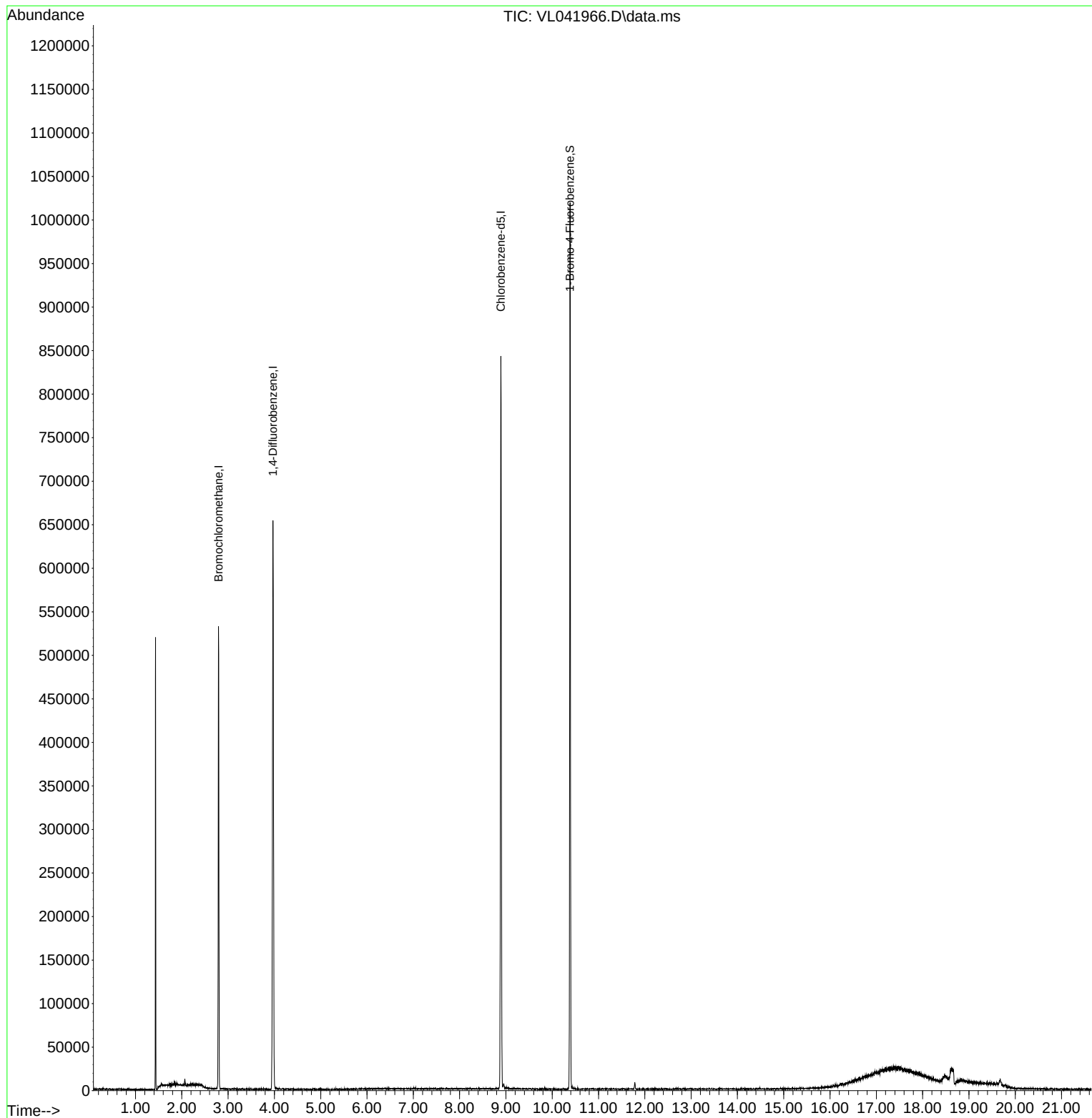
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
Data File : VL041966.D
Acq On : 03 Feb 2025 16:02
Operator : SY/MD
Sample : QC012825 CAN 10439
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC012825 CAN 10439

Quant Time: Feb 04 02:38:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

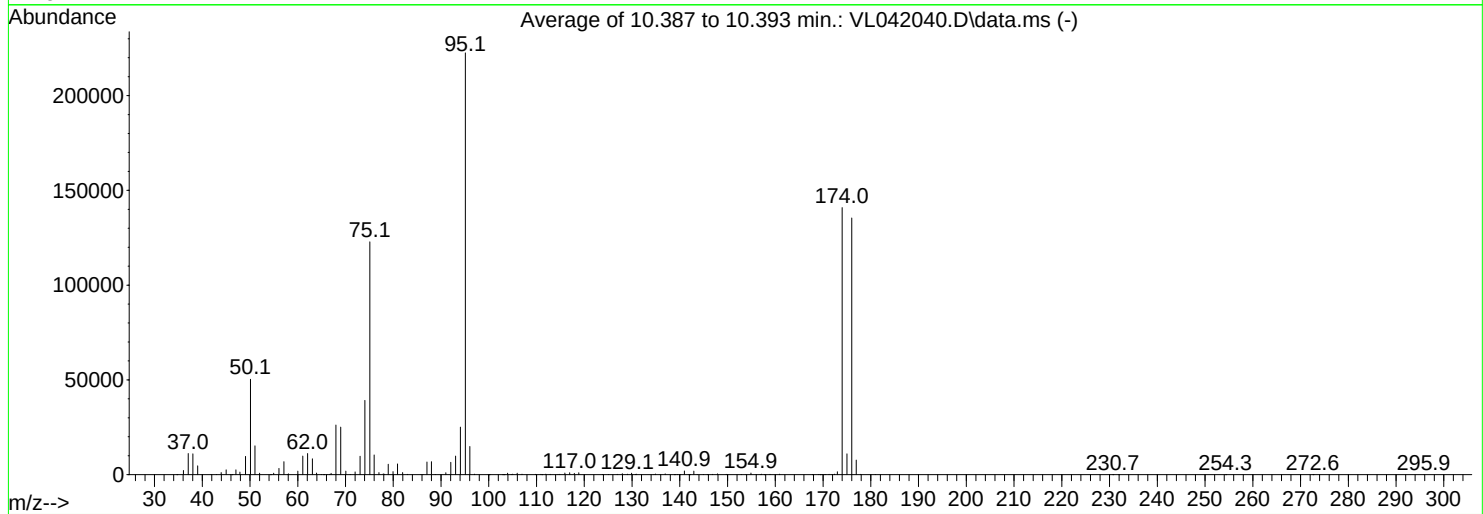
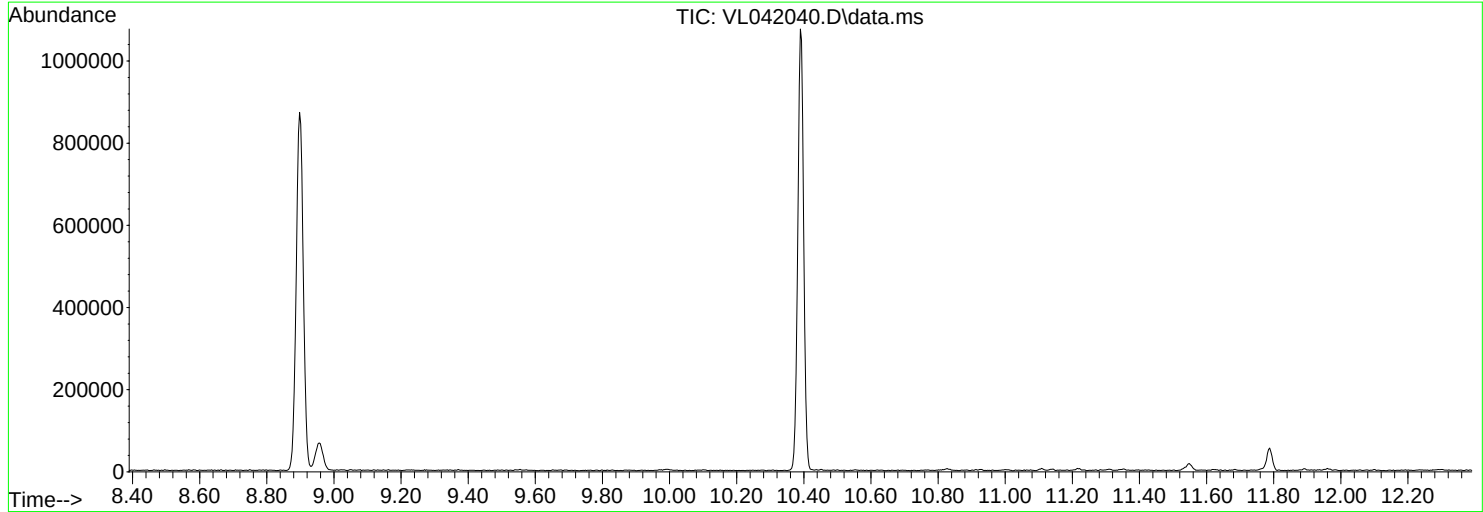


Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042040.D
Acq On : 25 Feb 2025 07:56
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Wed Feb 26 01:08:36 2025



AutoFind: Scans 3182, 3183, 3184; Background Corrected with Scan 3168

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	22.6	50320	PASS
75	95	30	66	55.2	122859	PASS
95	95	100	100	100.0	222571	PASS
96	95	5	9	6.7	14875	PASS
173	174	0.00	2	1.1	1534	PASS
174	95	50	120	63.3	140957	PASS
175	174	4	9	7.8	11014	PASS
176	174	93	101	96.1	135437	PASS
177	176	5	9	5.7	7676	PASS

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\

Method File : VL022525AIR.M

Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

Last Update : Wed Feb 26 01:08:36 2025

Response Via : Initial Calibration

Calibration Files

0.03=VL042046.D 0.1 =VL042045.D 0.5 =VL042044.D 1 =VL042043.D 2 =VL042042.D 10 =VL042041.D 15 =VL042047.D

Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD

1) I Bromochloromethane	-----ISTD-----								
2) T Dichlorodifluo...			1.109	1.084	1.091	0.943	0.973	1.040	7.31
3) Chlorodifluoro...			1.493	1.566	1.535	1.311	1.362	1.453	7.67
4) Chloromethane			0.438	0.398	0.399	0.344	0.344	0.385	10.53
5) T Vinyl Chloride	0.447	0.336	0.376	0.346	0.361	0.337	0.343	0.364	10.89
6) T Bromomethane			0.170	0.184	0.186	0.160	0.165	0.173	6.63
7) Chloroethane			0.151	0.158	0.156	0.135	0.140	0.148	6.83
8) T Dichlorotetra...			0.892	0.910	0.901	0.779	0.791	0.855	7.47
9) T Propene			0.614	0.630	0.636	0.522	0.558	0.592	8.47
10) T Heptane			1.971	1.946	1.960	1.662	1.679	1.844	8.59
11) T Trichlorofluor...			1.056	1.122	1.119	0.944	0.968	1.042	7.98
12) T 1,1,2-Trichlor...			0.919	0.902	0.865	0.697	0.773	0.831	11.28
13) Ethanol			0.053	0.057	0.040	0.020	0.018	0.038#	48.50
14) T Bromoethene			0.325	0.304	0.299	0.264	0.275	0.293	8.41
15) T Acetone			1.084	0.960	0.933	0.714	0.723	0.883	18.17
16) T 1,3-Butadiene			0.476	0.435	0.418	0.358	0.367	0.411	11.96
17) tert-Butyl alc...			1.184	1.185	1.201	0.950	1.004	1.105	10.71
18) T 1,1-Dichloroet...			0.398	0.437	0.386	0.320	0.338	0.376	12.57
19) T Isopropyl Alcohol			0.561	0.571	0.557	0.419	0.429	0.507	15.06
20) T Methylene Chlo...			0.429	0.374	0.329	0.261	0.278	0.334	20.72
21) T Allyl Chloride			0.707	0.717	0.639	0.538	0.590	0.638	11.94
22) T trans-1,2-Dich...			0.481	0.506	0.450	0.358	0.395	0.438	13.90
23) T Vinyl Acetate			0.689	0.614	0.695	0.520	0.586	0.621	11.82
24) T 1,1-Dichloroet...			0.927	0.856	0.863	0.669	0.758	0.815	12.42
25) T Ethyl Acetate			3.833	3.674	3.776	3.174	3.217	3.535	8.91
26) T Hexane			1.596	1.462	1.519	1.282	1.287	1.429	9.83
27) T Carbon Disulfide			1.042	0.972	1.032	0.856	0.942	0.969	7.78
28) T Methyl tert-Bu...			0.650	0.844	0.838	0.522	0.705	0.711	19.02
29) T Chloroform			2.165	2.044	1.971	1.722	1.716	1.923	10.36
30) T Cyclohexane			1.154	1.239	1.255	1.076	1.076	1.160	7.39
31) T cis-1,2-Dichlo...			1.421	1.401	1.450	1.237	1.255	1.353	7.33
32) T 1,1,1-Trichlor...	1.921	1.875	1.883	1.916	1.944	1.771	1.751	1.866	4.05

33) I 1,4-Difluorobenzene	-----ISTD-----								
34) T 2-Butanone			0.833	0.799	0.812	0.692	0.759	0.779	7.15
35) T Carbon Tetrach...	0.664	0.705	0.675	0.723	0.725	0.655	0.681	0.690	4.09
36) T Benzene			1.079	1.084	1.104	0.969	0.999	1.047	5.66
37) T 1,2-Dichloroet...			0.624	0.604	0.598	0.520	0.556	0.580	7.20
38) T Trichloroethene	0.447	0.462	0.433	0.447	0.447	0.378	0.379	0.427	8.06
39) T 1,2-Dichloropr...			0.421	0.415	0.414	0.357	0.379	0.397	7.02

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\											
Method File : VL022525AIR.M											
40)	T	1,4-Dioxane			0.192	0.196	0.181	0.164	0.173	0.181	7.31
41)	T	Tetrahydrofuran			0.469	0.492	0.473	0.418	0.450	0.460	6.04
42)	T	Bromodichlorom...			0.806	0.791	0.810	0.739	0.765	0.782	3.81
43)		Methyl Methacr...			0.400	0.418	0.426	0.392	0.409	0.409	3.35
44)	T	2,2,4-Trimethy...			1.928	1.935	1.955	1.670	1.750	1.848	6.99
45)	T	t-1,3-Dichloro...			0.414	0.392	0.418	0.393	0.414	0.406	3.12
46)	T	cis-1,3-Dichlo...			0.514	0.523	0.548	0.516	0.526	0.526	2.59
47)	T	1,1,2-Trichlor...			0.426	0.429	0.426	0.361	0.375	0.403	8.12
48)	T	Dibromochlorom...			0.618	0.667	0.667	0.594	0.613	0.632	5.25
49)	T	Bromoform			0.553	0.551	0.588	0.525	0.526	0.549	4.68
50)	T	4-Methyl-2-Pen...			0.996	0.974	0.975	1.014	1.079	1.008	4.27
51)	T	2-Hexanone			0.577	0.570	0.608	0.834	0.879	0.693	21.69
52)	T	Tetrachloroethene	0.322	0.374	0.380	0.383	0.385	0.327	0.337	0.358	7.88
53)	T	Toluene			1.150	1.210	1.284	1.088	1.118	1.170	6.67
54)	T	1,2-Dibromoethane		0.563	0.556	0.553	0.586	0.500	0.514	0.545	5.87
-----ISTD-----											
55)	I	Chlorobenzene-d5									
56)		1,1,1,2-Tetrac...			0.607	0.596	0.595	0.505	0.524	0.565	8.37
57)	T	Chlorobenzene			1.102	1.113	1.121	0.910	0.938	1.037	10.02
58)	T	Ethyl Benzene			1.886	1.906	1.974	1.694	1.749	1.842	6.31
59)	T	m/p-Xylene			1.488	1.550	1.580	1.330	1.380	1.466	7.35
60)	T	o-Xylene			1.572	1.550	1.577	1.317	1.351	1.473	8.68
61)	T	Styrene			0.659	0.719	0.738	0.658	0.690	0.693	5.18
62)		Isopropylbenzene			2.299	2.339	2.399	1.969	2.026	2.207	8.84
63)	T	1,1,2,2-Tetrac...	0.999	0.975	1.026	1.041	1.031	0.848	0.872	0.970	8.13
64)		n-propylbenzene			0.596	0.607	0.632	0.524	0.535	0.579	8.11
65)		tert-Butylbenzene			2.080	2.251	2.222	1.733	1.753	2.008	12.47
66)	T	Benzyl Chloride			0.141	0.159	0.163	0.153	0.150	0.153	5.40
67)		sec-Butylbenzene			2.973	3.229	3.182	2.482	2.494	2.872	12.65
68)	S	1-Bromo-4-Fluo...	0.773	0.760	0.768	0.777	0.765	0.764	0.779	0.769	0.92
69)		p-Isopropyltol...			2.240	2.533	2.575	2.021	2.056	2.285	11.38
70)		n-Butylbenzene			2.332	2.567	2.572	2.070	2.120	2.332	10.20
71)		2-Chlorotoluene			1.758	1.829	1.853	1.514	1.551	1.701	9.30
72)	T	4-Ethyltoluene			1.775	1.944	1.985	1.621	1.670	1.799	8.99
73)	T	1,3,5-Trimethy...			1.592	1.732	1.696	1.381	1.400	1.560	10.47
74)	T	1,2,4-Trimethy...			1.855	1.982	1.990	1.471	1.488	1.757	14.76
75)	T	1,3-Dichlorobe...			1.112	1.110	1.083	0.869	0.882	1.011	12.30
76)	T	1,4-Dichlorobe...			1.120	1.061	1.092	0.861	0.886	1.004	12.07
77)	T	1,2-Dichlorobe...			1.059	1.097	1.063	0.836	0.852	0.981	12.88
78)	T	Hexachloro-1,3...			0.840	0.832	0.844	0.637	0.666	0.764	13.53
79)	T	Naphthalene		0.841	0.978	1.237	1.352	1.371	1.450	1.205	20.15
80)	T	Naphthalene,2-...			0.090	0.142	0.240	0.562	0.615	0.330	73.74
81)	T	1,2,4-Trichlor...			0.589	0.687	0.765	0.644	0.673	0.671	9.58

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042041.D
 Acq On : 25 Feb 2025 08:56
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 03/06/2025
 Supervised By :Semsettin Yesilyurt 03/06/2025

Quant Time: Feb 25 10:10:59 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Tue Feb 18 00:13:37 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.800	49	161135	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.978	114	422655	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.901	117	374249	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.393 95 285943 9.263 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 92.600%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	152005	5.480	ppbv	99
3) Chlorodifluoromethane	1.479	51	211185	6.887	ppbv	96
4) Chloromethane	1.538	50	55364	5.136	ppbv	98
5) Vinyl Chloride	1.586	62	54228	4.207	ppbv	98
6) Bromomethane	1.674	94	25846	5.173	ppbv	90
7) Chloroethane	1.709	64	21717	5.169	ppbv	96
8) Dichlorotetrafluoroethane	1.560	85	125595	5.147	ppbv	94
9) Propene	1.489	41	84038	6.357	ppbv	97
10) Heptane	5.007	43	267860	7.296	ppbv	97
11) Trichlorofluoromethane	1.884	101	152112	5.449	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.146	101	112374	5.162	ppbv	93
13) Ethanol	1.729	45	3178	2.131	ppbv	85
14) Bromoethene	1.787	108	42461	5.223	ppbv	99
15) Acetone	1.842	43	115085	4.327	ppbv	95
16) 1,3-Butadiene	1.615	39	57707	4.574	ppbv	100
17) tert-Butyl alcohol	2.049	59	153073	4.651	ppbv	100
18) 1,1-Dichloroethene	2.043	96	51534	4.954	ppbv	95
19) Isopropyl Alcohol	1.894	45	67445	4.522	ppbv	98
20) Methylene Chloride	2.069	84	41998	4.195	ppbv	94
21) Allyl Chloride	2.104	41	86723	4.504	ppbv	99
22) trans-1,2-Dichloroethene	2.350	96	57617	5.104	ppbv	96
23) Vinyl Acetate	2.473	43	83866	5.823	ppbv	98
24) 1,1-Dichloroethane	2.418	63	107817	4.704	ppbv	100
25) Ethyl Acetate	2.852	43	511505	7.007	ppbv	99
26) Hexane	2.839	57	206577	7.052	ppbv	98
27) Carbon Disulfide	2.159	76	137978	5.008	ppbv	97
28) Methyl tert-Butyl Ether	2.450	73	84091	4.696	ppbv	98
29) Chloroform	2.862	83	277411	6.538	ppbv	96
30) Cyclohexane	3.875	84	173351	7.295	ppbv	98
31) cis-1,2-Dichloroethene	2.732	61	199354	6.886	ppbv	98
32) 1,1,1-Trichloroethane	3.383	97	285335	6.064	ppbv	98
34) 2-Butanone	2.570	43	292449	8.043	ppbv	100
35) Carbon Tetrachloride	3.781	117	276677	6.741	ppbv	97
36) Benzene	3.674	78	409501	7.999	ppbv	98
37) 1,2-Dichloroethane	3.234	62	219829	7.543	ppbv	100
38) Trichloroethene	4.570	130	159933	7.689	ppbv	93
39) 1,2-Dichloropropane	4.337	63	151036	8.047	ppbv	99
40) 1,4-Dioxane	4.609	88	69399	7.105	ppbv #	76
41) Tetrahydrofuran	3.072	42	176830	8.509	ppbv	95
42) Bromodichloromethane	4.512	83	312250	7.908	ppbv	97
43) Methyl Methacrylate	4.907	69	165494	7.091	ppbv	97
44) 2,2,4-Trimethylpentane	4.661	57	705920	8.122	ppbv	97
45) t-1,3-Dichloropropene	6.444	75	166207	7.544	ppbv	91

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042041.D
 Acq On : 25 Feb 2025 08:56
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 03/06/2025
 Supervised By :Semsettin Yesilyurt 03/06/2025

Quant Time: Feb 25 10:10:59 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Tue Feb 18 00:13:37 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.629	75	218294	7.809	ppbv	99
47) 1,1,2-Trichloroethane	6.610	97	152556	7.723	ppbv	97
48) Dibromochloromethane	7.412	129	251213	7.593	ppbv	99
49) Bromoform	9.503	173	222057	8.183	ppbv	98
50) 4-Methyl-2-Pentanone	5.787	43	428434	7.666	ppbv	100
51) 2-Hexanone	7.464	43	352331	7.709	ppbv #	96
52) Tetrachloroethene	8.244	164	138263	7.743	ppbv	94
53) Toluene	6.959	91	460041	7.541	ppbv	97
54) 1,2-Dibromoethane	7.678	107	211395	7.772	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.943	131	188811	7.049	ppbv	97
57) Chlorobenzene	8.940	112	340525	7.735	ppbv	97
58) Ethyl Benzene	9.374	91	633939	7.739	ppbv	98
59) m/p-Xylene	9.552	91	995259m	15.427	ppbv	
60) o-Xylene	9.982	91	493069	7.557	ppbv	97
61) Styrene	9.888	104	246161	7.912	ppbv	98
62) Isopropylbenzene	10.555	105	736884	7.522	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.979	83	317313	7.538	ppbv	100
64) n-propylbenzene	11.005	120	196044	8.145	ppbv	90
65) tert-Butylbenzene	11.545	119	648698	7.596	ppbv	97
66) Benzyl Chloride	11.630	91	57345	6.699	ppbv #	97
67) sec-Butylbenzene	11.782	105	928863	7.744	ppbv	99
69) p-Isopropyltoluene	11.940	119	756264	7.702	ppbv	98
70) n-Butylbenzene	12.296	91	774646	8.009	ppbv	99
71) 2-Chlorotoluene	10.918	91	566619	7.681	ppbv	97
72) 4-Ethyltoluene	11.141	105	606538	7.934	ppbv	98
73) 1,3,5-Trimethylbenzene	11.219	105	516875	7.838	ppbv	100
74) 1,2,4-Trimethylbenzene	11.552	105	550412	7.777	ppbv	98
75) 1,3-Dichlorobenzene	11.623	146	325160	8.535	ppbv	97
76) 1,4-Dichlorobenzene	11.685	146	322404	8.678	ppbv	97
77) 1,2-Dichlorobenzene	11.963	146	312942	8.593	ppbv	96
78) Hexachloro-1,3-Butadiene	13.895	225	238217	7.907	ppbv	100
79) Naphthalene	13.526	128	513192	7.372	ppbv	99
80) Naphthalene,2-methyl-	14.471	142	210405	6.676	ppbv	95
81) 1,2,4-Trichlorobenzene	13.455	180	241031	8.517	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042042.D
 Acq On : 25 Feb 2025 09:29
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Quant Time: Feb 25 10:12:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Tue Feb 18 00:13:37 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025
 Supervised By : Mahesh Dadoda 02/26/2025

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

Internal Standards						
1) Bromochloromethane	2.800	49	160999	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.981	114	427051	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.901	117	377910	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	289049	9.273	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.700%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.505	85	35122	1.267	ppbv	95
3) Chlorodifluoromethane	1.483	51	49423	1.613	ppbv	94
4) Chloromethane	1.538	50	12833	1.192	ppbv #	87
5) Vinyl Chloride	1.586	62	11611	0.902	ppbv	97
6) Bromomethane	1.674	94	5996	1.201	ppbv	97
7) Chloroethane	1.712	64	5014	1.195	ppbv	90
8) Dichlorotetrafluoroethane	1.560	85	29028	1.191	ppbv	99
9) Propene	1.489	41	20484	1.551	ppbv	95
10) Heptane	5.004	43	63098	1.720	ppbv	94
11) Trichlorofluoromethane	1.884	101	36041	1.292	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.149	101	27846	1.280	ppbv	90
13) Ethanol	1.729	45	1291	0.866	ppbv	91
14) Bromoethene	1.790	108	9642	1.187	ppbv	93
15) Acetone	1.842	43	30058	1.131	ppbv	100
16) 1,3-Butadiene	1.615	39	13471	1.069	ppbv	100
17) tert-Butyl alcohol	2.052	59	38684	1.176	ppbv	96
18) 1,1-Dichloroethene	2.043	96	12417	1.195	ppbv	93
19) Isopropyl Alcohol	1.894	45	17927	1.203	ppbv	96
20) Methylene Chloride	2.072	84	10587	1.058	ppbv #	80
21) Allyl Chloride	2.107	41	20564	1.069	ppbv	96
22) trans-1,2-Dichloroethene	2.350	96	14475	1.283	ppbv	81
23) Vinyl Acetate	2.473	43	22394	1.556	ppbv #	94
24) 1,1-Dichloroethane	2.421	63	27804	1.214	ppbv	99
25) Ethyl Acetate	2.852	43	121593	1.667	ppbv	100
26) Hexane	2.839	57	48912	1.671	ppbv	98
27) Carbon Disulfide	2.159	76	33222	1.207	ppbv #	57
28) Methyl tert-Butyl Ether	2.457	73	26968	1.507	ppbv	100
29) Chloroform	2.865	83	63463	1.497	ppbv	92
30) Cyclohexane	3.878	84	40420	1.702	ppbv	98
31) cis-1,2-Dichloroethene	2.732	61	46690	1.614	ppbv	96
32) 1,1,1-Trichloroethane	3.386	97	62586	1.331	ppbv	97
34) 2-Butanone	2.573	43	69370	1.888	ppbv	96
35) Carbon Tetrachloride	3.784	117	61895	1.493	ppbv	97
36) Benzene	3.677	78	94277	1.822	ppbv	98
37) 1,2-Dichloroethane	3.237	62	51050	1.734	ppbv	99
38) Trichloroethene	4.574	130	38184	1.817	ppbv	99
39) 1,2-Dichloropropane	4.341	63	35396	1.866	ppbv	95
40) 1,4-Dioxane	4.622	88	15442	1.565	ppbv #	28
41) Tetrahydrofuran	3.075	42	40365	1.922	ppbv	96
42) Bromodichloromethane	4.512	83	69154	1.733	ppbv	94
43) Methyl Methacrylate	4.910	69	36393	1.543	ppbv	94
44) 2,2,4-Trimethylpentane	4.664	57	166945	1.901	ppbv	97
45) t-1,3-Dichloropropene	6.448	75	35707	1.604	ppbv	93

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042042.D
 Acq On : 25 Feb 2025 09:29
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 10:12:18 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Tue Feb 18 00:13:37 2025

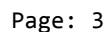
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.632	75	46835	1.658	ppbv	93
47) 1,1,2-Trichloroethane	6.613	97	36368	1.822	ppbv	93
48) Dibromochloromethane	7.412	129	56931	1.703	ppbv	99
49) Bromoform	9.503	173	50259	1.833	ppbv	99
50) 4-Methyl-2-Pentanone	5.797	43	83246	1.474	ppbv	99
51) 2-Hexanone	7.470	43	51926	1.124	ppbv #	94
52) Tetrachloroethene	8.244	164	32874	1.822	ppbv	95
53) Toluene	6.962	91	109646	1.779	ppbv	98
54) 1,2-Dibromoethane	7.678	107	50010	1.820	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.946	131	44947	1.662	ppbv	98
57) Chlorobenzene	8.943	112	84749	1.906	ppbv	95
58) Ethyl Benzene	9.374	91	149185	1.804	ppbv	99
59) m/p-Xylene	9.568	91	238800m	3.666	ppbv	
60) o-Xylene	9.982	91	119170	1.809	ppbv	97
61) Styrene	9.888	104	55798	1.776	ppbv	96
62) Isopropylbenzene	10.555	105	181311	1.833	ppbv	97
63) 1,1,2,2-Tetrachloroethane	9.982	83	77911	1.833	ppbv	96
64) n-propylbenzene	11.005	120	47764	1.965	ppbv	92
65) tert-Butylbenzene	11.545	119	167973	1.948	ppbv	96
66) Benzyl Chloride	11.630	91	12304	1.423	ppbv #	98
67) sec-Butylbenzene	11.782	105	240504	1.986	ppbv	99
69) p-Isopropyltoluene	11.940	119	194660	1.963	ppbv	99
70) n-Butylbenzene	12.296	91	194416	1.991	ppbv	99
71) 2-Chlorotoluene	10.917	91	140068	1.880	ppbv	98
72) 4-Ethyltoluene	11.141	105	150038	1.944	ppbv	98
73) 1,3,5-Trimethylbenzene	11.218	105	128202	1.925	ppbv	99
74) 1,2,4-Trimethylbenzene	11.549	105	150380	2.104	ppbv #	88
75) 1,3-Dichlorobenzene	11.623	146	81884	2.129	ppbv	98
76) 1,4-Dichlorobenzene	11.688	146	82560	2.201	ppbv	97
77) 1,2-Dichlorobenzene	11.963	146	80367	2.186	ppbv	96
78) Hexachloro-1,3-Butadiene	13.895	225	63815	2.098	ppbv	99
79) Naphthalene	13.526	128	102197	1.454	ppbv	98
80) Naphthalene,2-methyl-	14.475	142	18104	0.569	ppbv	94
81) 1,2,4-Trichlorobenzene	13.455	180	57798	2.023	ppbv	98

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

Manual Integrations
APPROVED

Quant Time: Feb 25 10:12:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Feb 18 00:13:37 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042043.D
 Acq On : 25 Feb 2025 10:00
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025
 Supervised By : Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 10:27:35 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Feb 25 10:15:00 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.800	49	161096	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.978	114	423363	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	369917	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.390 95 287450 9.420 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 94.200%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	17457	0.629	ppbv	95
3) Chlorodifluoromethane	1.479	51	25229	0.823	ppbv	98
4) Chloromethane	1.538	50	6417	0.595	ppbv #	75
5) Vinyl Chloride	1.586	62	5567	0.432	ppbv	96
6) Bromomethane	1.674	94	2966	0.594	ppbv	100
7) Chloroethane	1.709	64	2542	0.605	ppbv	96
8) Dichlorotetrafluoroethane	1.560	85	14655	0.601	ppbv	90
9) Propene	1.486	41	10156	0.768	ppbv	96
10) Heptane	4.998	43	31354m	0.854	ppbv	
11) Trichlorofluoromethane	1.884	101	18079	0.648	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.149	101	14527	0.667	ppbv	92
13) Ethanol	1.725	45	915m	0.614	ppbv	
14) Bromoethene	1.787	108	4905	0.604	ppbv #	95
15) Acetone	1.845	43	15468	0.582	ppbv	98
16) 1,3-Butadiene	1.615	39	7010	0.556	ppbv	99
17) tert-Butyl alcohol	2.052	59	19092	0.580	ppbv	97
18) 1,1-Dichloroethene	2.043	96	7042	0.677	ppbv	94
19) Isopropyl Alcohol	1.894	45	9191	0.616	ppbv #	32
20) Methylene Chloride	2.068	84	6026	0.602	ppbv	95
21) Allyl Chloride	2.104	41	11550	0.600	ppbv	95
22) trans-1,2-Dichloroethene	2.347	96	8145m	0.722	ppbv	
23) Vinyl Acetate	2.473	43	9893	0.687	ppbv #	91
24) 1,1-Dichloroethane	2.418	63	13783	0.601	ppbv	98
25) Ethyl Acetate	2.852	43	59183	0.811	ppbv	99
26) Hexane	2.836	57	23549	0.804	ppbv	96
27) Carbon Disulfide	2.159	76	15659	0.568	ppbv #	46
28) Methyl tert-Butyl Ether	2.454	73	13593	0.759	ppbv	95
29) Chloroform	2.861	83	32925	0.776	ppbv	94
30) Cyclohexane	3.874	84	19953	0.840	ppbv	97
31) cis-1,2-Dichloroethene	2.732	61	22565	0.780	ppbv	97
32) 1,1,1-Trichloroethane	3.386	97	30870	0.656	ppbv	96
34) 2-Butanone	2.570	43	33820	0.929	ppbv	99
35) Carbon Tetrachloride	3.777	117	30618	0.745	ppbv	90
36) Benzene	3.674	78	45892	0.895	ppbv	96
37) 1,2-Dichloroethane	3.234	62	25585	0.876	ppbv	99
38) Trichloroethene	4.570	130	18921	0.908	ppbv	91
39) 1,2-Dichloropropane	4.334	63	17557	0.934	ppbv	94
40) 1,4-Dioxane	4.619	88	8319m	0.850	ppbv	
41) Tetrahydrofuran	3.075	42	20823	1.000	ppbv	96
42) Bromodichloromethane	4.515	83	33481	0.847	ppbv	97
43) Methyl Methacrylate	4.907	69	17679	0.756	ppbv	99
44) 2,2,4-Trimethylpentane	4.661	57	81921	0.941	ppbv	98
45) t-1,3-Dichloropropene	6.444	75	16578m	0.751	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042043.D
 Acq On : 25 Feb 2025 10:00
 Operator : SY/MD
 Sample : VSTDIC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 10:27:35 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Feb 25 10:15:00 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.632	75	22127m	0.790	ppbv	
47) 1,1,2-Trichloroethane	6.616	97	18160m	0.918	ppbv	
48) Dibromochloromethane	7.412	129	28239	0.852	ppbv	97
49) Bromoform	9.500	173	23310	0.858	ppbv	94
50) 4-Methyl-2-Pentanone	5.791	43	41249m	0.737	ppbv	
51) 2-Hexanone	7.470	43	24117	0.527	ppbv #	97
52) Tetrachloroethene	8.241	164	16217	0.907	ppbv	89
53) Toluene	6.959	91	51231	0.838	ppbv	99
54) 1,2-Dibromoethane	7.674	107	23427	0.860	ppbv	94
56) 1,1,1,2-Tetrachloroethane	8.943	131	22060	0.833	ppbv	97
57) Chlorobenzene	8.937	112	41173	0.946	ppbv	96
58) Ethyl Benzene	9.370	91	70507	0.871	ppbv	97
59) m/p-Xylene	9.568	91	114691m	1.799	ppbv	
60) o-Xylene	9.979	91	57322	0.889	ppbv	99
61) Styrene	9.885	104	26596	0.865	ppbv	98
62) Isopropylbenzene	10.555	105	86533	0.894	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.979	83	38520	0.926	ppbv	98
64) n-propylbenzene	11.002	120	22456	0.944	ppbv	94
65) tert-Butylbenzene	11.545	119	83284	0.987	ppbv	99
66) Benzyl Chloride	11.626	91	5880m	0.695	ppbv	
67) sec-Butylbenzene	11.782	105	119435	1.007	ppbv	99
69) p-Isopropyltoluene	11.940	119	93710	0.966	ppbv	99
70) n-Butylbenzene	12.293	91	94969	0.993	ppbv	98
71) 2-Chlorotoluene	10.914	91	67655	0.928	ppbv	98
72) 4-Ethyltoluene	11.137	105	71906	0.952	ppbv	99
73) 1,3,5-Trimethylbenzene	11.215	105	64087	0.983	ppbv	96
74) 1,2,4-Trimethylbenzene	11.549	105	73323	1.048	ppbv	100
75) 1,3-Dichlorobenzene	11.620	146	41063	1.091	ppbv	99
76) 1,4-Dichlorobenzene	11.685	146	39235	1.068	ppbv	99
77) 1,2-Dichlorobenzene	11.960	146	40574	1.127	ppbv	98
78) Hexachloro-1,3-Butadiene	13.895	225	30764	1.033	ppbv	99
79) Naphthalene	13.526	128	45743	0.665	ppbv	98
80) Naphthalene,2-methyl-	14.471	142	5244	0.168	ppbv	94
81) 1,2,4-Trichlorobenzene	13.452	180	25404	0.908	ppbv	95

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

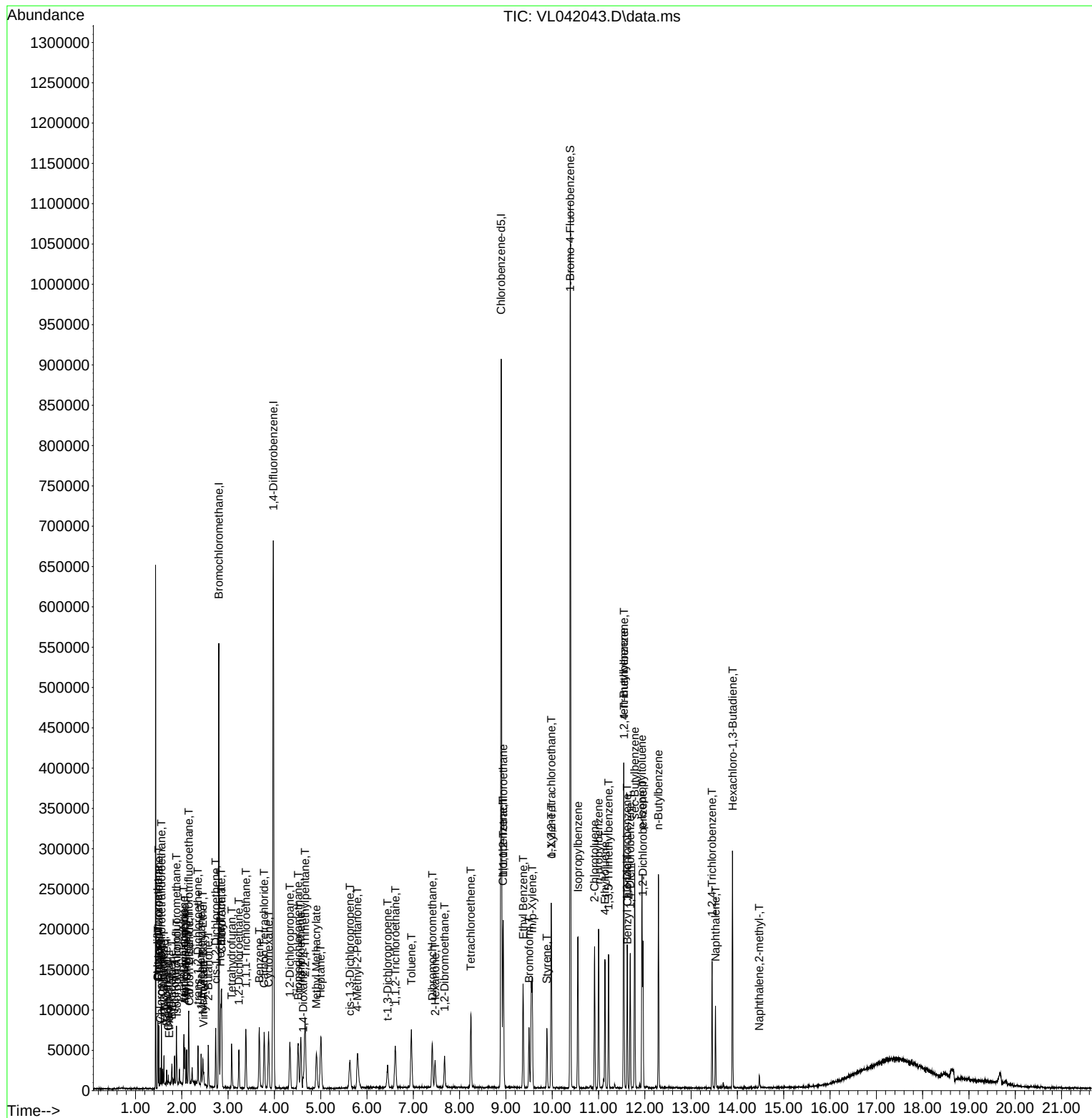
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042043.D
Acq On : 25 Feb 2025 10:00
Operator : SY/MD
Sample : VSTDIC001
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 10:27:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Feb 25 10:15:00 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042044.D
 Acq On : 25 Feb 2025 10:31
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Quant Time: Feb 25 10:56:41 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Feb 25 10:31:48 2025

Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025
 Supervised By : Mahesh Dadoda 02/26/2025

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

Internal Standards						
1) Bromochloromethane	2.797	49	159644	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	421340	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	365954	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.390 95 281042 9.310 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 93.100%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	8852	0.322	ppbv	98
3) Chlorodifluoromethane	1.479	51	11921	0.392	ppbv	94
4) Chloromethane	1.537	50	3497	0.327	ppbv #	88
5) Vinyl Chloride	1.583	62	3005	0.235	ppbv	98
6) Bromomethane	1.673	94	1359	0.275	ppbv	92
7) Chloroethane	1.709	64	1205	0.290	ppbv	89
8) Dichlorotetrafluoroethane	1.557	85	7123	0.295	ppbv	99
9) Propene	1.486	41	4904	0.374	ppbv	94
10) Heptane	5.004	43	15731	0.432	ppbv	98
11) Trichlorofluoromethane	1.884	101	8429	0.305	ppbv	92
12) 1,1,2-Trichlorotrifluo...	2.146	101	7336	0.340	ppbv	98
13) Ethanol	1.725	45	426	0.288	ppbv	75
14) Bromoethene	1.787	108	2598	0.323	ppbv #	89
15) Acetone	1.842	43	8655	0.328	ppbv	96
16) 1,3-Butadiene	1.615	39	3803	0.304	ppbv	97
17) tert-Butyl alcohol	2.049	59	9447	0.290	ppbv #	90
18) 1,1-Dichloroethene	2.039	96	3173	0.308	ppbv	94
19) Isopropyl Alcohol	1.894	45	4481	0.303	ppbv #	32
20) Methylene Chloride	2.068	84	3423	0.345	ppbv	97
21) Allyl Chloride	2.104	41	5640	0.296	ppbv	100
22) trans-1,2-Dichloroethene	2.347	96	3838m	0.343	ppbv	
23) Vinyl Acetate	2.473	43	5499	0.385	ppbv #	86
24) 1,1-Dichloroethane	2.418	63	7396	0.326	ppbv #	88
25) Ethyl Acetate	2.848	43	30593	0.423	ppbv	98
26) Hexane	2.832	57	12739	0.439	ppbv	98
27) Carbon Disulfide	2.159	76	8316	0.305	ppbv #	15
28) Methyl tert-Butyl Ether	2.450	73	5185	0.292	ppbv #	80
29) Chloroform	2.858	83	17278	0.411	ppbv	93
30) Cyclohexane	3.874	84	9209	0.391	ppbv	88
31) cis-1,2-Dichloroethene	2.729	61	11344	0.395	ppbv	97
32) 1,1,1-Trichloroethane	3.382	97	15027	0.322	ppbv	93
34) 2-Butanone	2.570	43	17555	0.484	ppbv	99
35) Carbon Tetrachloride	3.780	117	14223	0.348	ppbv	90
36) Benzene	3.670	78	22728	0.445	ppbv	95
37) 1,2-Dichloroethane	3.230	62	13141	0.452	ppbv	100
38) Trichloroethene	4.570	130	9115	0.440	ppbv #	87
39) 1,2-Dichloropropane	4.331	63	8877m	0.474	ppbv	
40) 1,4-Dioxane	4.622	88	4046m	0.416	ppbv	
41) Tetrahydrofuran	3.078	42	9880	0.477	ppbv	98
42) Bromodichloromethane	4.505	83	16973	0.431	ppbv #	96
43) Methyl Methacrylate	4.904	69	8428	0.362	ppbv	93
44) 2,2,4-Trimethylpentane	4.661	57	40623	0.469	ppbv	98
45) t-1,3-Dichloropropene	6.441	75	8720m	0.397	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042044.D
 Acq On : 25 Feb 2025 10:31
 Operator : SY/MD
 Sample : VSTDIC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 10:56:41 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Feb 25 10:31:48 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.629	75	10834m	0.389	ppbv	
47) 1,1,2-Trichloroethane	6.609	97	8982m	0.456	ppbv	
48) Dibromochloromethane	7.406	129	13014m	0.395	ppbv	
49) Bromoform	9.496	173	11640	0.430	ppbv	98
50) 4-Methyl-2-Pentanone	5.794	43	20992m	0.377	ppbv	
51) 2-Hexanone	7.470	43	12149m	0.267	ppbv	
52) Tetrachloroethene	8.241	164	8012	0.450	ppbv	95
53) Toluene	6.956	91	24224	0.398	ppbv	96
54) 1,2-Dibromoethane	7.674	107	11718m	0.432	ppbv	
56) 1,1,1,2-Tetrachloroethane	8.940	131	11100	0.424	ppbv #	61
57) Chlorobenzene	8.936	112	20167	0.468	ppbv	97
58) Ethyl Benzene	9.370	91	34506	0.431	ppbv	90
59) m/p-Xylene	9.568	91	54449m	0.863	ppbv	
60) o-Xylene	9.979	91	28757	0.451	ppbv	95
61) Styrene	9.885	104	12051	0.396	ppbv	99
62) Isopropylbenzene	10.552	105	42074	0.439	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.975	83	18774	0.456	ppbv	96
64) n-propylbenzene	11.001	120	10900	0.463	ppbv	100
65) tert-Butylbenzene	11.542	119	38066	0.456	ppbv	98
66) Benzyl Chloride	11.626	91	2589	0.309	ppbv #	96
67) sec-Butylbenzene	11.778	105	54394	0.464	ppbv	97
69) p-Isopropyltoluene	11.937	119	40978	0.427	ppbv	95
70) n-Butylbenzene	12.293	91	42673	0.451	ppbv	99
71) 2-Chlorotoluene	10.914	91	32161	0.446	ppbv	99
72) 4-Ethyltoluene	11.137	105	32477	0.434	ppbv #	95
73) 1,3,5-Trimethylbenzene	11.215	105	29130	0.452	ppbv	91
74) 1,2,4-Trimethylbenzene	11.548	105	33950	0.491	ppbv	97
75) 1,3-Dichlorobenzene	11.616	146	20339	0.546	ppbv	96
76) 1,4-Dichlorobenzene	11.684	146	20492	0.564	ppbv	93
77) 1,2-Dichlorobenzene	11.959	146	19373	0.544	ppbv	96
78) Hexachloro-1,3-Butadiene	13.892	225	15367	0.522	ppbv	99
79) Naphthalene	13.523	128	17897	0.263	ppbv #	95
80) Naphthalene,2-methyl-	14.478	142	1646	0.053	ppbv #	81
81) 1,2,4-Trichlorobenzene	13.452	180	10771	0.389	ppbv	94

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042045.D
 Acq On : 25 Feb 2025 11:03
 Operator : SY/MD
 Sample : VSTDICC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.1

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025
 Supervised By : Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 12:33:08 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Feb 25 10:31:48 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.803	49	161406	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.981	114	414875	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.904	117	363831	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	276484	9.213	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.100%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.586	62	543	0.042	ppbv #	88
32) 1,1,1-Trichloroethane	3.386	97	3026	0.064	ppbv #	86
35) Carbon Tetrachloride	3.787	117	2923m	0.073	ppbv	
38) Trichloroethene	4.577	130	1915m	0.094	ppbv	
52) Tetrachloroethene	8.254	164	1552m	0.089	ppbv	
54) 1,2-Dibromoethane	7.678	107	2335m	0.087	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.982	83	3549m	0.087	ppbv	
79) Naphthalene	13.529	128	3058	0.045	ppbv #	91

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

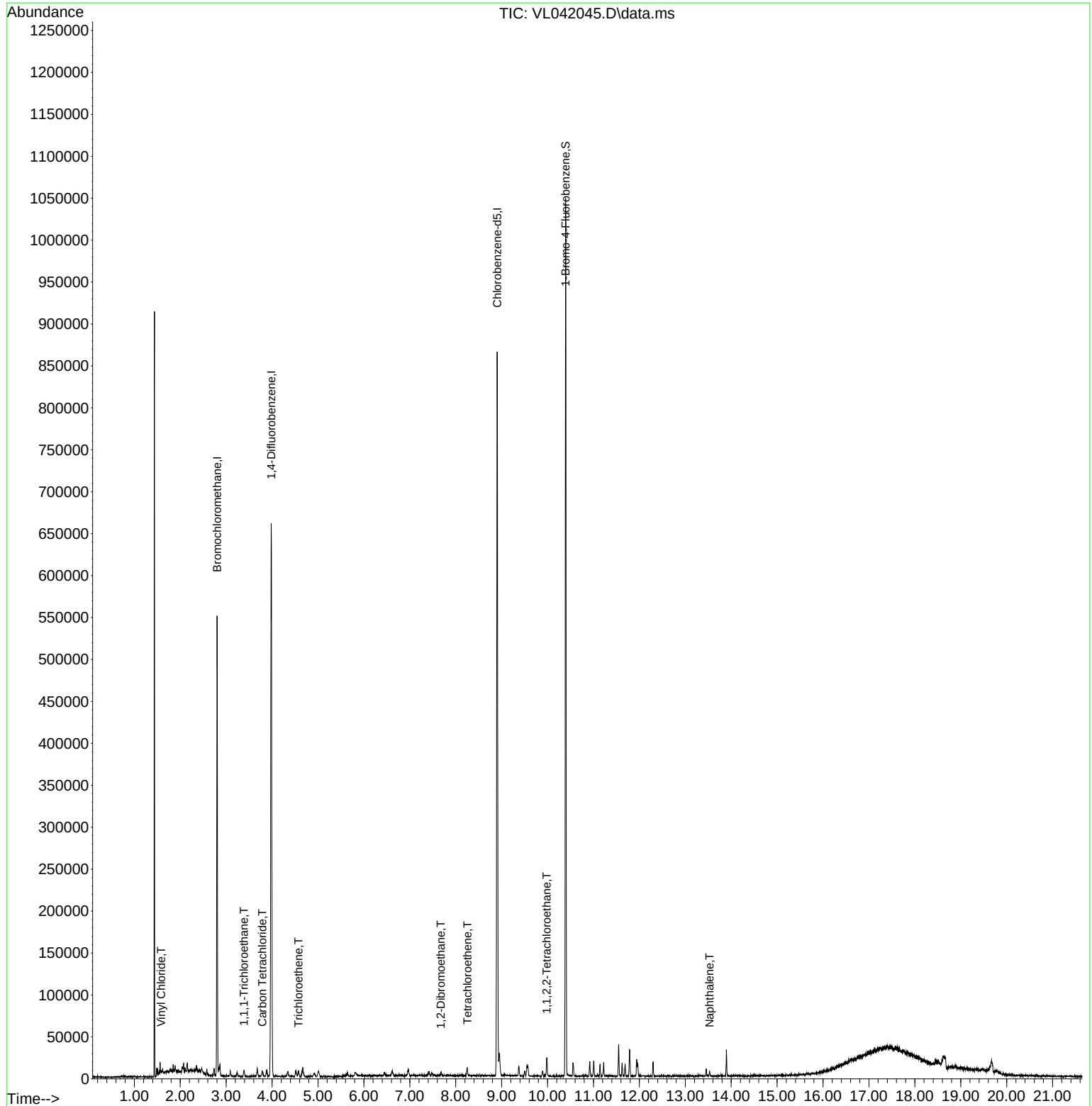
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042045.D
Acq On : 25 Feb 2025 11:03
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 12:33:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Feb 25 10:31:48 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042046.D
 Acq On : 25 Feb 2025 11:34
 Operator : SY/MD
 Sample : VSTDICC0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 12:34:19 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Feb 25 10:31:48 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	160156	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	410900	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	353154	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	272906	9.368	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.700%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.586	62	215	0.017	ppbv	89
32) 1,1,1-Trichloroethane	3.379	97	923m	0.020	ppbv	
35) Carbon Tetrachloride	3.784	117	818m	0.021	ppbv	
38) Trichloroethene	4.577	130	551m	0.027	ppbv	
52) Tetrachloroethene	8.237	164	397m	0.023	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.979	83	1058m	0.027	ppbv	

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

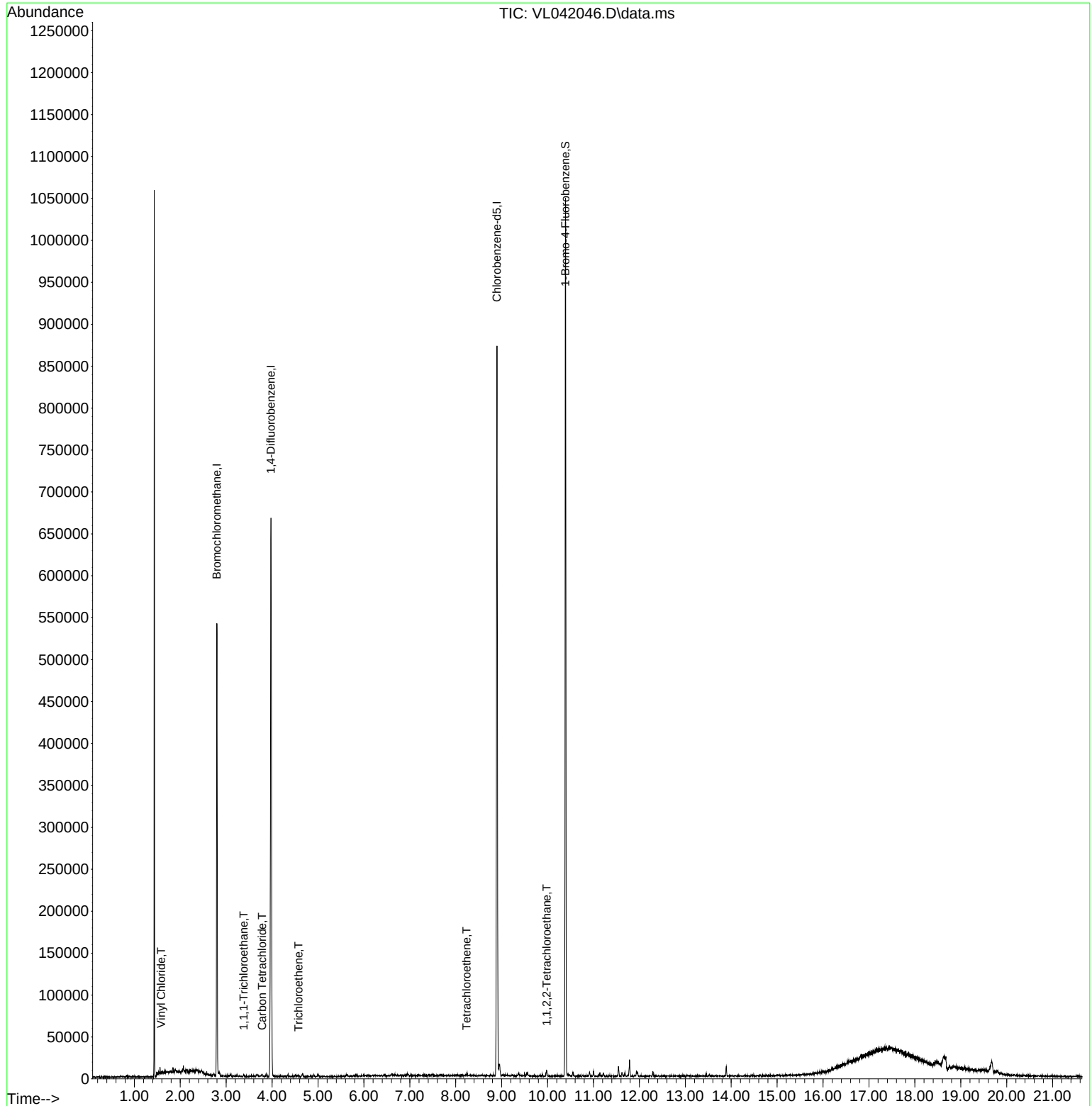
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042046.D
Acq On : 25 Feb 2025 11:34
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 12:34:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Feb 25 10:31:48 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042047.D
 Acq On : 25 Feb 2025 12:07
 Operator : SY/MD
 Sample : VSTDICC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC015

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025
 Supervised By : Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 12:35:10 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Feb 25 10:31:48 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.800	49	159015	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.978	114	401919	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.904	117	351637	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.393 95 273846 9.441 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 94.400%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	231978	8.474	ppbv	99
3) Chlorodifluoromethane	1.479	51	324821	10.733	ppbv	100
4) Chloromethane	1.537	50	82097	7.718	ppbv	98
5) Vinyl Chloride	1.586	62	81863	6.436	ppbv	99
6) Bromomethane	1.673	94	39366	7.983	ppbv	97
7) Chloroethane	1.709	64	33329	8.039	ppbv	92
8) Dichlorotetrafluoroethane	1.560	85	188716	7.837	ppbv	98
9) Propene	1.489	41	133086	10.201	ppbv	97
10) Heptane	5.004	43	400418	11.052	ppbv	99
11) Trichlorofluoromethane	1.884	101	230938	8.383	ppbv	95
12) 1,1,2-Trichlorotrifluo...	2.149	101	184306	8.579	ppbv	99
13) Ethanol	1.725	45	4281	2.909	ppbv	100
14) Bromoethene	1.787	108	65496	8.164	ppbv	99
15) Acetone	1.842	43	172538	6.574	ppbv	98
16) 1,3-Butadiene	1.615	39	87490	7.027	ppbv	100
17) tert-Butyl alcohol	2.049	59	239569	7.377	ppbv	98
18) 1,1-Dichloroethene	2.042	96	80535	7.845	ppbv	98
19) Isopropyl Alcohol	1.894	45	102365	6.955	ppbv	99
20) Methylene Chloride	2.068	84	66282	6.709	ppbv	98
21) Allyl Chloride	2.104	41	140726	7.406	ppbv	99
22) trans-1,2-Dichloroethene	2.350	96	94321	8.466	ppbv	95
23) Vinyl Acetate	2.473	43	139727	9.831	ppbv	99
24) 1,1-Dichloroethane	2.418	63	180882	7.997	ppbv	99
25) Ethyl Acetate	2.848	43	767353	10.652	ppbv	99
26) Hexane	2.839	57	306864	10.615	ppbv	99
27) Carbon Disulfide	2.159	76	224609	8.261	ppbv	98
28) Methyl tert-Butyl Ether	2.453	73	168058	9.510	ppbv	98
29) Chloroform	2.861	83	409240	9.774	ppbv	100
30) Cyclohexane	3.874	84	256687	10.946	ppbv	98
31) cis-1,2-Dichloroethene	2.732	61	299324	10.476	ppbv	96
32) 1,1,1-Trichloroethane	3.386	97	417615	8.994	ppbv	98
34) 2-Butanone	2.570	43	457602	13.234	ppbv	98
35) Carbon Tetrachloride	3.780	117	410730	10.524	ppbv	96
36) Benzene	3.674	78	602107	12.367	ppbv	97
37) 1,2-Dichloroethane	3.233	62	335275	12.097	ppbv	99
38) Trichloroethene	4.573	130	228298	11.542	ppbv	98
39) 1,2-Dichloropropane	4.337	63	228418	12.797	ppbv	98
40) 1,4-Dioxane	4.609	88	104519	11.253	ppbv #	96
41) Tetrahydrofuran	3.068	42	271202	13.724	ppbv	100
42) Bromodichloromethane	4.512	83	461272	12.285	ppbv	96
43) Methyl Methacrylate	4.907	69	246468	11.105	ppbv	97
44) 2,2,4-Trimethylpentane	4.667	57	1054880	12.763	ppbv	99
45) t-1,3-Dichloropropene	6.444	75	249612	11.914	ppbv	95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042047.D
 Acq On : 25 Feb 2025 12:07
 Operator : SY/MD
 Sample : VSTDIC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 12:35:10 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Feb 25 10:31:48 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.635	75	317266	11.935	ppbv	98
47) 1,1,2-Trichloroethane	6.609	97	226021	12.032	ppbv	95
48) Dibromochloromethane	7.412	129	369666	11.750	ppbv	99
49) Bromoform	9.503	173	317322	12.297	ppbv	99
50) 4-Methyl-2-Pentanone	5.787	43	650307	12.237	ppbv	99
51) 2-Hexanone	7.461	43	530165	12.198	ppbv #	100
52) Tetrachloroethene	8.247	164	203233	11.968	ppbv	94
53) Toluene	6.959	91	673822	11.615	ppbv	99
54) 1,2-Dibromoethane	7.677	107	309982	11.985	ppbv	95
56) 1,1,1,2-Tetrachloroethane	8.946	131	276326	10.979	ppbv	99
57) Chlorobenzene	8.943	112	494606	11.957	ppbv	98
58) Ethyl Benzene	9.373	91	922265	11.984	ppbv	100
59) m/p-Xylene	9.571	91	1456036m	24.020	ppbv	
60) o-Xylene	9.982	91	712735	11.626	ppbv	99
61) Styrene	9.888	104	363855	12.446	ppbv	99
62) Isopropylbenzene	10.558	105	1068777	11.612	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.982	83	459839	11.626	ppbv	100
64) n-propylbenzene	11.005	120	282364	12.486	ppbv	99
65) tert-Butylbenzene	11.548	119	924810	11.526	ppbv	99
66) Benzyl Chloride	11.633	91	78975	9.819	ppbv	98
67) sec-Butylbenzene	11.785	105	1315730	11.674	ppbv	99
69) p-Isopropyltoluene	11.940	119	1084253	11.752	ppbv	99
70) n-Butylbenzene	12.296	91	1118373	12.306	ppbv	99
71) 2-Chlorotoluene	10.917	91	818204	11.804	ppbv	100
72) 4-Ethyltoluene	11.141	105	880883	12.264	ppbv	99
73) 1,3,5-Trimethylbenzene	11.218	105	738619	11.921	ppbv	98
74) 1,2,4-Trimethylbenzene	11.552	105	784701	11.801	ppbv	91
75) 1,3-Dichlorobenzene	11.623	146	465436	13.003	ppbv	98
76) 1,4-Dichlorobenzene	11.688	146	467249	13.386	ppbv	99
77) 1,2-Dichlorobenzene	11.963	146	449222	13.129	ppbv	98
78) Hexachloro-1,3-Butadiene	13.895	225	351085	12.403	ppbv	100
79) Naphthalene	13.526	128	764990	11.696	ppbv	99
80) Naphthalene,2-methyl-	14.471	142	324431	10.956	ppbv	99
81) 1,2,4-Trichlorobenzene	13.455	180	354990	13.351	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042048.D
 Acq On : 25 Feb 2025 13:15
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL022525

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 26 01:31:59 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.800	49	158881	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.981	114	406520	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.904	117	350262	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.393 95 274527 10.188 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.900%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.505	85	158709	9.606	ppbv	99
3) Chlorodifluoromethane	1.479	51	219646	9.512	ppbv	100
4) Chloromethane	1.537	50	54628	8.941	ppbv	100
5) Vinyl Chloride	1.586	62	52672	9.114	ppbv	98
6) Bromomethane	1.673	94	25374	9.221	ppbv	100
7) Chloroethane	1.709	64	22174	9.443	ppbv #	87
8) Dichlorotetrafluoroethane	1.560	85	127046	9.354	ppbv	100
9) Propene	1.489	41	90844	9.657	ppbv	96
10) Heptane	5.010	43	269133	9.188	ppbv	99
11) Trichlorofluoromethane	1.884	101	156871	9.476	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.149	101	115089	8.715	ppbv	99
13) Ethanol	1.728	45	2630	4.404	ppbv	98
14) Bromoethene	1.790	108	43546	9.338	ppbv	98
15) Acetone	1.842	43	118697	8.460	ppbv	97
16) 1,3-Butadiene	1.615	39	61603	9.434	ppbv	98
17) tert-Butyl alcohol	2.049	59	154116	8.779	ppbv	98
18) 1,1-Dichloroethene	2.042	96	51973	8.711	ppbv	98
19) Isopropyl Alcohol	1.894	45	69546	8.629	ppbv	96
20) Methylene Chloride	2.072	84	42028	7.919	ppbv	96
21) Allyl Chloride	2.104	41	90745	8.951	ppbv	98
22) trans-1,2-Dichloroethene	2.350	96	59140	8.502	ppbv	98
23) Vinyl Acetate	2.476	43	93605	9.488	ppbv #	98
24) 1,1-Dichloroethane	2.421	63	112869	8.721	ppbv	100
25) Ethyl Acetate	2.852	43	533113	9.492	ppbv	99
26) Hexane	2.839	57	208955	9.203	ppbv	97
27) Carbon Disulfide	2.159	76	138176	8.978	ppbv	97
28) Methyl tert-Butyl Ether	2.453	73	94554	8.365	ppbv	100
29) Chloroform	2.865	83	281191	9.202	ppbv	97
30) Cyclohexane	3.878	84	168830	9.161	ppbv	94
31) cis-1,2-Dichloroethene	2.735	61	199564	9.285	ppbv	99
32) 1,1,1-Trichloroethane	3.386	97	278512	9.396	ppbv	98
34) 2-Butanone	2.570	43	308064	9.727	ppbv	97
35) Carbon Tetrachloride	3.784	117	276599	9.867	ppbv	98
36) Benzene	3.677	78	399804	9.395	ppbv	98
37) 1,2-Dichloroethane	3.233	62	223946	9.491	ppbv	99
38) Trichloroethene	4.573	130	156488	9.005	ppbv	96
39) 1,2-Dichloropropane	4.340	63	152063	9.414	ppbv	97
40) 1,4-Dioxane	4.616	88	65010	8.817	ppbv #	98
41) Tetrahydrofuran	3.072	42	181453	9.696	ppbv	99
42) Bromodichloromethane	4.512	83	305385	9.606	ppbv	97
43) Methyl Methacrylate	4.910	69	160954	9.685	ppbv	95
44) 2,2,4-Trimethylpentane	4.667	57	712051	9.480	ppbv	99
45) t-1,3-Dichloropropene	6.447	75	159680	9.671	ppbv	90

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042048.D
 Acq On : 25 Feb 2025 13:15
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL022525

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 26 01:31:59 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Wed Feb 26 01:08:36 2025

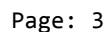
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.635	75	206836	9.680	ppbv	96
47) 1,1,2-Trichloroethane	6.613	97	148220	9.039	ppbv	95
48) Dibromochloromethane	7.412	129	241593	9.407	ppbv	100
49) Bromoform	9.503	173	210370	9.432	ppbv	98
50) 4-Methyl-2-Pentanone	5.790	43	431123	10.526	ppbv	98
51) 2-Hexanone	7.464	43	354515	12.576	ppbv #	100
52) Tetrachloroethene	8.247	164	134062	9.202	ppbv	97
53) Toluene	6.962	91	448495	9.430	ppbv	98
54) 1,2-Dibromoethane	7.677	107	206335	9.307	ppbv	96
56) 1,1,1,2-Tetrachloroethane	8.946	131	182800	9.234	ppbv	99
57) Chlorobenzene	8.943	112	334696	9.216	ppbv	99
58) Ethyl Benzene	9.377	91	613622	9.513	ppbv	99
59) m/p-Xylene	9.571	91	977425m	19.041	ppbv	
60) o-Xylene	9.985	91	481683	9.334	ppbv	100
61) Styrene	9.891	104	241617	9.959	ppbv	99
62) Isopropylbenzene	10.558	105	729350	9.437	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.982	83	312794	9.204	ppbv	99
64) n-propylbenzene	11.008	120	192704	9.506	ppbv	99
65) tert-Butylbenzene	11.548	119	632202	8.988	ppbv	100
66) Benzyl Chloride	11.633	91	52645	9.808	ppbv	98
67) sec-Butylbenzene	11.785	105	914405	9.090	ppbv	99
69) p-Isopropyltoluene	11.940	119	753761	9.418	ppbv	100
70) n-Butylbenzene	12.296	91	781034	9.560	ppbv	99
71) 2-Chlorotoluene	10.917	91	559993	9.399	ppbv	100
72) 4-Ethyltoluene	11.144	105	602156	9.557	ppbv	99
73) 1,3,5-Trimethylbenzene	11.222	105	505451	9.248	ppbv	100
74) 1,2,4-Trimethylbenzene	11.555	105	547176	8.891	ppbv	95
75) 1,3-Dichlorobenzene	11.623	146	324491	9.161	ppbv	98
76) 1,4-Dichlorobenzene	11.688	146	322712	9.176	ppbv	99
77) 1,2-Dichlorobenzene	11.963	146	312159	9.081	ppbv	99
78) Hexachloro-1,3-Butadiene	13.895	225	228480	8.543	ppbv	99
79) Naphthalene	13.529	128	513148	12.160	ppbv	98
80) Naphthalene,2-methyl-	14.474	142	198077	17.152	ppbv	98
81) 1,2,4-Trichlorobenzene	13.455	180	234354	9.965	ppbv	97

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

Manual Integrations APPROVED

Quant Time: Feb 26 01:31:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042048.D
 Acq On : 25 Feb 2025 13:15
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL022525

Quant Time: Feb 26 01:31:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	99	0.00
2 T	Dichlorodifluoromethane	1.040	0.999	3.9	104	0.00
3	Chlorodifluoromethane	1.453	1.382	4.9	104	0.00
4	Chloromethane	0.385	0.344	10.6	99	0.00
5 T	Vinyl Chloride	0.364	0.332	8.8	97	0.00
6 T	Bromomethane	0.173	0.160	7.5	98	0.00
7	Chloroethane	0.148	0.140	5.4	102	0.00
8 T	Dichlorotetrafluoroethane	0.855	0.800	6.4	101	0.00
9 T	Propene	0.592	0.572	3.4	108	0.00
10 T	Heptane	1.844	1.694	8.1	100	0.00
11 T	Trichlorofluoromethane	1.042	0.987	5.3	103	0.00
12 T	1,1,2-Trichlorotrifluoroeth	0.831	0.724	12.9	102	0.00
13	Ethanol	0.038	0.017#	55.3#	83	0.00
14 T	Bromoethene	0.293	0.274	6.5	103	0.00
15 T	Acetone	0.883	0.747	15.4	103	0.00
16 T	1,3-Butadiene	0.411	0.388	5.6	107	0.00
17	tert-Butyl alcohol	1.105	0.970	12.2	101	0.00
18 T	1,1-Dichloroethene	0.376	0.327	13.0	101	0.00
19 T	Isopropyl Alcohol	0.507	0.438	13.6	103	0.00
20 T	Methylene Chloride	0.334	0.265	20.7	100	0.00
21 T	Allyl Chloride	0.638	0.571	10.5	105	0.00
22 T	trans-1,2-Dichloroethene	0.438	0.372	15.1	103	0.00
23 T	Vinyl Acetate	0.621	0.589	5.2	112	0.00
24 T	1,1-Dichloroethane	0.815	0.710	12.9	105	0.00
25 T	Ethyl Acetate	3.535	3.355	5.1	104	0.00
26 T	Hexane	1.429	1.315	8.0	101	0.00
27 T	Carbon Disulfide	0.969	0.870	10.2	100	0.00
28 T	Methyl tert-Butyl Ether	0.711	0.595	16.3	112	0.00
29 T	Chloroform	1.923	1.770	8.0	101	0.00
30 T	Cyclohexane	1.160	1.063	8.4	97	0.00
31 T	cis-1,2-Dichloroethene	1.353	1.256	7.2	100	0.00
32 T	1,1,1-Trichloroethane	1.866	1.753	6.1	98	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	96	0.00
34 T	2-Butanone	0.779	0.758	2.7	105	0.00
35 T	Carbon Tetrachloride	0.690	0.680	1.4	100	0.00
36 T	Benzene	1.047	0.983	6.1	98	0.00
37 T	1,2-Dichloroethane	0.580	0.551	5.0	102	0.00
38 T	Trichloroethene	0.427	0.385	9.8	98	0.00
39 T	1,2-Dichloropropane	0.397	0.374	5.8	101	0.00
40 T	1,4-Dioxane	0.181	0.160	11.6	94	0.00
41 T	Tetrahydrofuran	0.460	0.446	3.0	103	0.00
42 T	Bromodichloromethane	0.782	0.751	4.0	98	0.00
43	Methyl Methacrylate	0.409	0.396	3.2	97	0.00
44 T	2,2,4-Trimethylpentane	1.848	1.752	5.2	101	0.00
45 T	t-1,3-Dichloropropene	0.406	0.393	3.2	96	0.00
46 T	cis-1,3-Dichloropropene	0.526	0.509	3.2	95	0.00
47 T	1,1,2-Trichloroethane	0.403	0.365	9.4	97	0.00
48 T	Dibromochloromethane	0.632	0.594	6.0	96	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042048.D
 Acq On : 25 Feb 2025 13:15
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL022525

Quant Time: Feb 26 01:31:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	Bromoform	0.549	0.517	5.8	95	0.00
50 T	4-Methyl-2-Pentanone	1.008	1.061	-5.3	101	0.00
51 T	2-Hexanone	0.693	0.872	-25.8	101	0.00
52 T	Tetrachloroethene	0.358	0.330	7.8	97	0.00
53 T	Toluene	1.170	1.103	5.7	97	0.00
54 T	1,2-Dibromoethane	0.545	0.508	6.8	98	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	94	0.00
56	1,1,1,2-Tetrachloroethane	0.565	0.522	7.6	97	0.00
57 T	Chlorobenzene	1.037	0.956	7.8	98	0.00
58 T	Ethyl Benzene	1.842	1.752	4.9	97	0.00
59 T	m/p-Xylene	1.466	1.395	4.8	98	0.02
60 T	o-Xylene	1.473	1.375	6.7	98	0.00
61 T	Styrene	0.693	0.690	0.4	98	0.00
62	Isopropylbenzene	2.207	2.082	5.7	99	0.00
63 T	1,1,2,2-Tetrachloroethane	0.970	0.893	7.9	99	0.00
64	n-propylbenzene	0.579	0.550	5.0	98	0.00
65	tert-Butylbenzene	2.008	1.805	10.1	97	0.00
66 T	Benzyl Chloride	0.153	0.150	2.0	92	0.00
67	sec-Butylbenzene	2.872	2.611	9.1	98	0.00
68 S	1-Bromo-4-Fluorobenzene	0.769	0.784	-2.0	96	0.00
69	p-Isopropyltoluene	2.285	2.152	5.8	100	0.00
70	n-Butylbenzene	2.332	2.230	4.4	101	0.00
71	2-Chlorotoluene	1.701	1.599	6.0	99	0.00
72 T	4-Ethyltoluene	1.799	1.719	4.4	99	0.00
73 T	1,3,5-Trimethylbenzene	1.560	1.443	7.5	98	0.00
74 T	1,2,4-Trimethylbenzene	1.757	1.562	11.1	99	0.00
75 T	1,3-Dichlorobenzene	1.011	0.926	8.4	100	0.00
76 T	1,4-Dichlorobenzene	1.004	0.921	8.3	100	0.00
77 T	1,2-Dichlorobenzene	0.981	0.891	9.2	100	0.00
78 T	Hexachloro-1,3-Butadiene	0.764	0.652	14.7	96	0.00
79 T	Naphthalene	1.205	1.465	-21.6	100	0.00
80 T	Naphthalene,2-methyl-	0.330	0.566	-71.5#	94	0.00
81 T	1,2,4-Trichlorobenzene	0.671	0.669	0.3	97	0.00

(#) = Out of Range

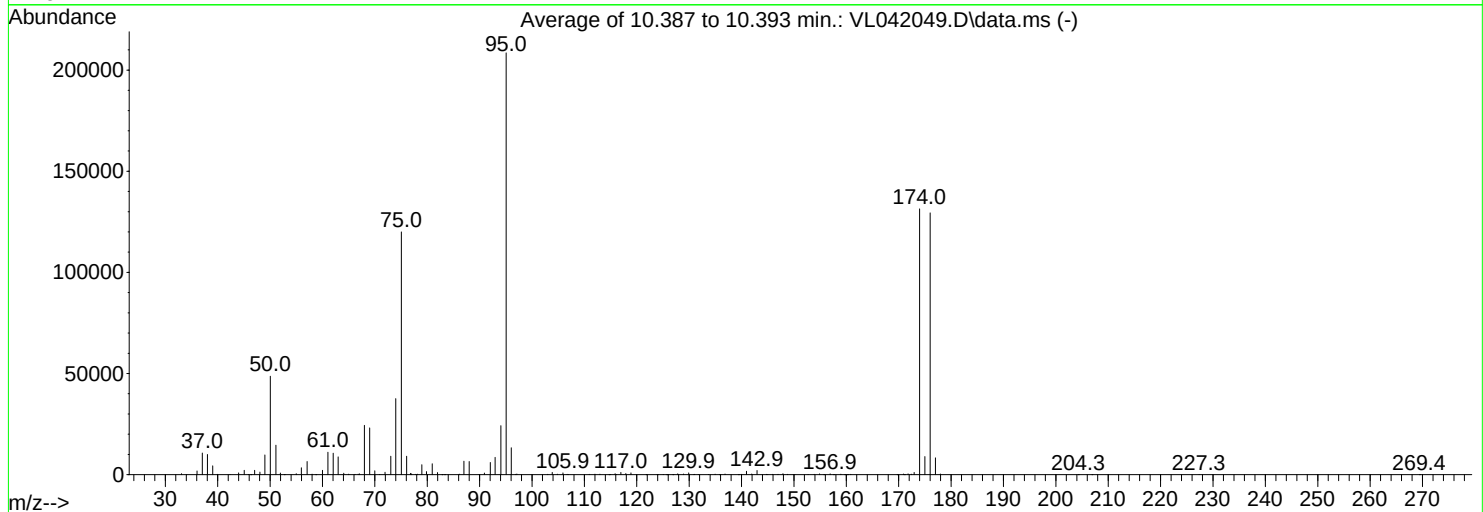
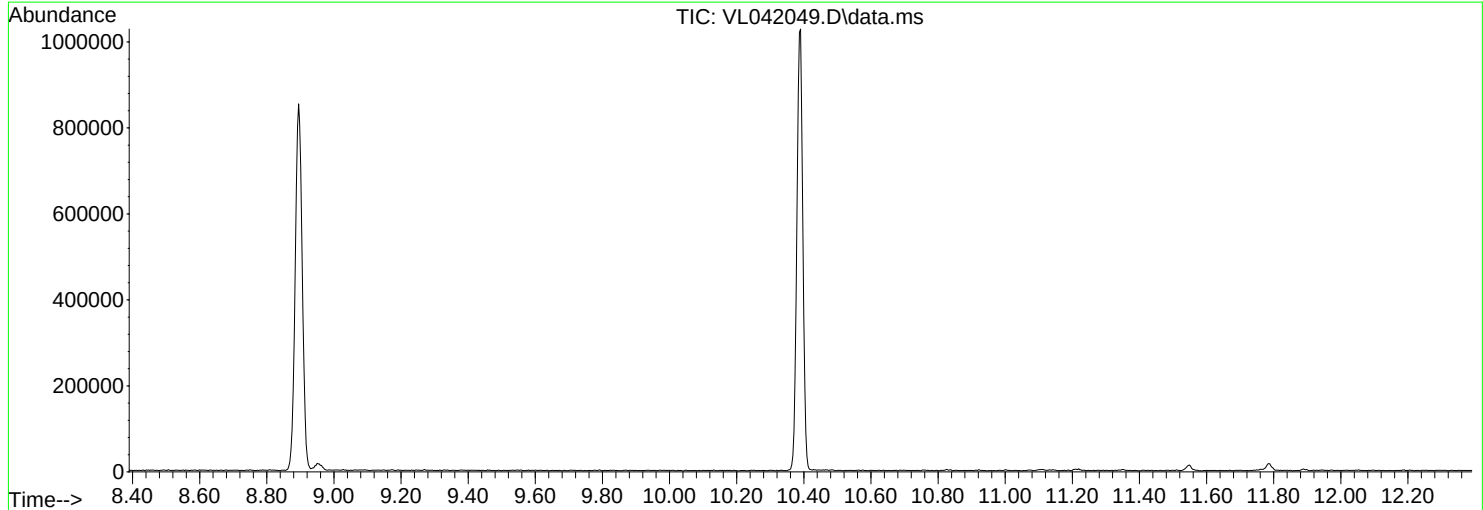
SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
Data File : VL042049.D
Acq On : 26 Feb 2025 07:46
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Wed Feb 26 01:08:36 2025



AutoFind: Scans 3182, 3183, 3184; Background Corrected with Scan 3165

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	23.3	48688	PASS
75	95	30	66	57.6	120021	PASS
95	95	100	100	100.0	208533	PASS
96	95	5	9	6.4	13271	PASS
173	174	0.00	2	0.8	1077	PASS
174	95	50	120	63.0	131429	PASS
175	174	4	9	6.8	8951	PASS
176	174	93	101	98.5	129411	PASS
177	176	5	9	6.4	8302	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
 Data File : VL042050.D
 Acq On : 26 Feb 2025 08:38
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/27/2025
 Supervised By :Mahesh Dadoda 02/27/2025

Quant Time: Feb 27 00:24:17 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	157492	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	387144	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	336136	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.390 95 264623 10.233 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 102.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	159125	9.716	ppbv	96
3) Chlorodifluoromethane	1.479	51	217238	9.491	ppbv	99
4) Chloromethane	1.538	50	54275	8.962	ppbv	97
5) Vinyl Chloride	1.583	62	53871	9.404	ppbv	99
6) Bromomethane	1.670	94	25674	9.412	ppbv	100
7) Chloroethane	1.709	64	22033	9.466	ppbv	89
8) Dichlorotetrafluoroethane	1.557	85	129383	9.610	ppbv	99
9) Propene	1.486	41	87439	9.377	ppbv	97
10) Heptane	5.001	43	268030	9.231	ppbv	99
11) Trichlorofluoromethane	1.884	101	155832	9.496	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.146	101	114341	8.735	ppbv	99
13) Ethanol	1.725	45	2918	4.929	ppbv	98
14) Bromoethene	1.787	108	44414	9.608	ppbv	95
15) Acetone	1.842	43	116372	8.367	ppbv	98
16) 1,3-Butadiene	1.612	39	59133	9.136	ppbv	99
17) tert-Butyl alcohol	2.046	59	153167	8.802	ppbv	96
18) 1,1-Dichloroethene	2.039	96	51101	8.640	ppbv	93
19) Isopropyl Alcohol	1.890	45	69014	8.638	ppbv	98
20) Methylene Chloride	2.068	84	42907	8.156	ppbv	98
21) Allyl Chloride	2.101	41	86423	8.600	ppbv	99
22) trans-1,2-Dichloroethene	2.347	96	61551	8.927	ppbv	98
23) Vinyl Acetate	2.470	43	84867	8.678	ppbv	98
24) 1,1-Dichloroethane	2.418	63	118286	9.220	ppbv	99
25) Ethyl Acetate	2.848	43	521677	9.371	ppbv	99
26) Hexane	2.835	57	207168	9.205	ppbv	98
27) Carbon Disulfide	2.156	76	138544	9.081	ppbv	95
28) Methyl tert-Butyl Ether	2.447	73	88652	7.912	ppbv	97
29) Chloroform	2.858	83	273992	9.045	ppbv	98
30) Cyclohexane	3.871	84	167364	9.162	ppbv	94
31) cis-1,2-Dichloroethene	2.732	61	197466	9.268	ppbv	97
32) 1,1,1-Trichloroethane	3.379	97	275336	9.370	ppbv	97
34) 2-Butanone	2.567	43	298594	9.900	ppbv	97
35) Carbon Tetrachloride	3.777	117	272097	10.192	ppbv	97
36) Benzene	3.670	78	394494	9.734	ppbv	97
37) 1,2-Dichloroethane	3.230	62	224585	9.995	ppbv	99
38) Trichloroethene	4.567	130	149021	9.005	ppbv	97
39) 1,2-Dichloropropane	4.331	63	151626	9.857	ppbv	95
40) 1,4-Dioxane	4.606	88	68639	9.775	ppbv #	98
41) Tetrahydrofuran	3.065	42	178871	10.037	ppbv	97
42) Bromodichloromethane	4.509	83	306517	10.124	ppbv	98
43) Methyl Methacrylate	4.900	69	156460	9.885	ppbv	96
44) 2,2,4-Trimethylpentane	4.658	57	703370	9.834	ppbv	99
45) t-1,3-Dichloropropene	6.438	75	155197	9.870	ppbv	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
 Data File : VL042050.D
 Acq On : 26 Feb 2025 08:38
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/27/2025
 Supervised By :Mahesh Dadoda 02/27/2025

Quant Time: Feb 27 00:24:17 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.622	75	205249	10.087	ppbv	99
47) 1,1,2-Trichloroethane	6.603	97	148058	9.481	ppbv	96
48) Dibromochloromethane	7.409	129	240304	9.825	ppbv	100
49) Bromoform	9.496	173	205649	9.682	ppbv	98
50) 4-Methyl-2-Pentanone	5.778	43	423271	10.851	ppbv	97
51) 2-Hexanone	7.454	43	345562	12.872	ppbv #	100
52) Tetrachloroethene	8.237	164	131164	9.454	ppbv	97
53) Toluene	6.952	91	439634	9.706	ppbv	98
54) 1,2-Dibromoethane	7.671	107	200726	9.507	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.940	131	178871	9.415	ppbv	100
57) Chlorobenzene	8.937	112	326805	9.377	ppbv	99
58) Ethyl Benzene	9.367	91	598242	9.664	ppbv	99
59) m/p-Xylene	9.564	91	957021m	19.427	ppbv	
60) o-Xylene	9.979	91	475848	9.608	ppbv	100
61) Styrene	9.885	104	231133	9.927	ppbv	99
62) Isopropylbenzene	10.552	105	718826	9.692	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.975	83	312195	9.572	ppbv	98
64) n-propylbenzene	11.001	120	185068	9.513	ppbv	95
65) tert-Butylbenzene	11.542	119	618290	9.160	ppbv	98
66) Benzyl Chloride	11.629	91	49850	9.678	ppbv	98
67) sec-Butylbenzene	11.778	105	890927	9.229	ppbv	100
69) p-Isopropyltoluene	11.937	119	724678	9.435	ppbv	100
70) n-Butylbenzene	12.293	91	756366	9.648	ppbv	99
71) 2-Chlorotoluene	10.914	91	545538	9.541	ppbv	99
72) 4-Ethyltoluene	11.137	105	574661	9.504	ppbv	99
73) 1,3,5-Trimethylbenzene	11.215	105	484912	9.245	ppbv	98
74) 1,2,4-Trimethylbenzene	11.548	105	527932	8.938	ppbv	96
75) 1,3-Dichlorobenzene	11.620	146	309408	9.102	ppbv	99
76) 1,4-Dichlorobenzene	11.684	146	309423	9.168	ppbv	99
77) 1,2-Dichlorobenzene	11.960	146	302720	9.177	ppbv	99
78) Hexachloro-1,3-Butadiene	13.892	225	229379	8.937	ppbv	100
79) Naphthalene	13.523	128	493813	12.193	ppbv	99
80) Naphthalene,2-methyl-	14.468	142	190978	17.232	ppbv	99
81) 1,2,4-Trichlorobenzene	13.452	180	226561	10.038	ppbv	98

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
 Data File : VL042050.D
 Acq On : 26 Feb 2025 08:38
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Feb 27 00:24:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	98	0.00
2 T	Dichlorodifluoromethane	1.040	1.010	2.9	105	0.00
3	Chlorodifluoromethane	1.453	1.379	5.1	103	0.00
4	Chloromethane	0.385	0.345	10.4	98	0.00
5 T	Vinyl Chloride	0.364	0.342	6.0	99	0.00
6 T	Bromomethane	0.173	0.163	5.8	99	0.00
7	Chloroethane	0.148	0.140	5.4	101	0.00
8 T	Dichlorotetrafluoroethane	0.855	0.822	3.9	103	0.00
9 T	Propene	0.592	0.555	6.2	104	0.00
10 T	Heptane	1.844	1.702	7.7	100	0.00
11 T	Trichlorofluoromethane	1.042	0.989	5.1	102	0.00
12 T	1,1,2-Trichlorotrifluoroeth	0.831	0.726	12.6	102	0.00
13	Ethanol	0.038	0.019#	50.0#	92	0.00
14 T	Bromoethene	0.293	0.282	3.8	105	0.00
15 T	Acetone	0.883	0.739	16.3	101	0.00
16 T	1,3-Butadiene	0.411	0.375	8.8	102	0.00
17	tert-Butyl alcohol	1.105	0.973	11.9	100	0.00
18 T	1,1-Dichloroethene	0.376	0.324	13.8	99	0.00
19 T	Isopropyl Alcohol	0.507	0.438	13.6	102	0.00
20 T	Methylene Chloride	0.334	0.272	18.6	102	0.00
21 T	Allyl Chloride	0.638	0.549	13.9	100	0.00
22 T	trans-1,2-Dichloroethene	0.438	0.391	10.7	107	0.00
23 T	Vinyl Acetate	0.621	0.539	13.2	101	0.00
24 T	1,1-Dichloroethane	0.815	0.751	7.9	110	0.00
25 T	Ethyl Acetate	3.535	3.312	6.3	102	0.00
26 T	Hexane	1.429	1.315	8.0	100	0.00
27 T	Carbon Disulfide	0.969	0.880	9.2	100	0.00
28 T	Methyl tert-Butyl Ether	0.711	0.563	20.8	105	0.00
29 T	Chloroform	1.923	1.740	9.5	99	0.00
30 T	Cyclohexane	1.160	1.063	8.4	97	0.00
31 T	cis-1,2-Dichloroethene	1.353	1.254	7.3	99	0.00
32 T	1,1,1-Trichloroethane	1.866	1.748	6.3	96	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	92	0.00
34 T	2-Butanone	0.779	0.771	1.0	102	0.00
35 T	Carbon Tetrachloride	0.690	0.703	-1.9	98	0.00
36 T	Benzene	1.047	1.019	2.7	96	0.00
37 T	1,2-Dichloroethane	0.580	0.580	0.0	102	0.00
38 T	Trichloroethene	0.427	0.385	9.8	93	0.00
39 T	1,2-Dichloropropane	0.397	0.392	1.3	100	0.00
40 T	1,4-Dioxane	0.181	0.177	2.2	99	0.00
41 T	Tetrahydrofuran	0.460	0.462	-0.4	101	0.00
42 T	Bromodichloromethane	0.782	0.792	-1.3	98	0.00
43	Methyl Methacrylate	0.409	0.404	1.2	95	0.00
44 T	2,2,4-Trimethylpentane	1.848	1.817	1.7	100	0.00
45 T	t-1,3-Dichloropropene	0.406	0.401	1.2	93	0.00
46 T	cis-1,3-Dichloropropene	0.526	0.530	-0.8	94	0.00
47 T	1,1,2-Trichloroethane	0.403	0.382	5.2	97	0.00
48 T	Dibromochloromethane	0.632	0.621	1.7	96	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
 Data File : VL042050.D
 Acq On : 26 Feb 2025 08:38
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Feb 27 00:24:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	Bromoform	0.549	0.531	3.3	93	0.00
50 T	4-Methyl-2-Pentanone	1.008	1.093	-8.4	99	0.00
51 T	2-Hexanone	0.693	0.893	-28.9	98	0.00
52 T	Tetrachloroethene	0.358	0.339	5.3	95	0.00
53 T	Toluene	1.170	1.136	2.9	96	0.00
54 T	1,2-Dibromoethane	0.545	0.518	5.0	95	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	90	0.00
56	1,1,1,2-Tetrachloroethane	0.565	0.532	5.8	95	0.00
57 T	Chlorobenzene	1.037	0.972	6.3	96	0.00
58 T	Ethyl Benzene	1.842	1.780	3.4	94	0.00
59 T	m/p-Xylene	1.466	1.424	2.9	96	0.01
60 T	o-Xylene	1.473	1.416	3.9	97	0.00
61 T	Styrene	0.693	0.688	0.7	94	0.00
62	Isopropylbenzene	2.207	2.138	3.1	98	0.00
63 T	1,1,2,2-Tetrachloroethane	0.970	0.929	4.2	98	0.00
64	n-propylbenzene	0.579	0.551	4.8	94	0.00
65	tert-Butylbenzene	2.008	1.839	8.4	95	0.00
66 T	Benzyl Chloride	0.153	0.148	3.3	87	0.00
67	sec-Butylbenzene	2.872	2.650	7.7	96	0.00
68 S	1-Bromo-4-Fluorobenzene	0.769	0.787	-2.3	93	0.00
69	p-Isopropyltoluene	2.285	2.156	5.6	96	0.00
70	n-Butylbenzene	2.332	2.250	3.5	98	0.00
71	2-Chlorotoluene	1.701	1.623	4.6	96	0.00
72 T	4-Ethyltoluene	1.799	1.710	4.9	95	0.00
73 T	1,3,5-Trimethylbenzene	1.560	1.443	7.5	94	0.00
74 T	1,2,4-Trimethylbenzene	1.757	1.571	10.6	96	0.00
75 T	1,3-Dichlorobenzene	1.011	0.920	9.0	95	0.00
76 T	1,4-Dichlorobenzene	1.004	0.921	8.3	96	0.00
77 T	1,2-Dichlorobenzene	0.981	0.901	8.2	97	0.00
78 T	Hexachloro-1,3-Butadiene	0.764	0.682	10.7	96	0.00
79 T	Naphthalene	1.205	1.469	-21.9	96	0.00
80 T	Naphthalene,2-methyl-	0.330	0.568	-72.1#	91	0.00
81 T	1,2,4-Trichlorobenzene	0.671	0.674	-0.4	94	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
 Data File : VL042051.D
 Acq On : 26 Feb 2025 09:20
 Operator : SY/MD
 Sample : VL0226ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0226ABL01

Quant Time: Feb 27 00:25:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	157395	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	386755	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	331916	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.390	95	257988	10.103	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.000%

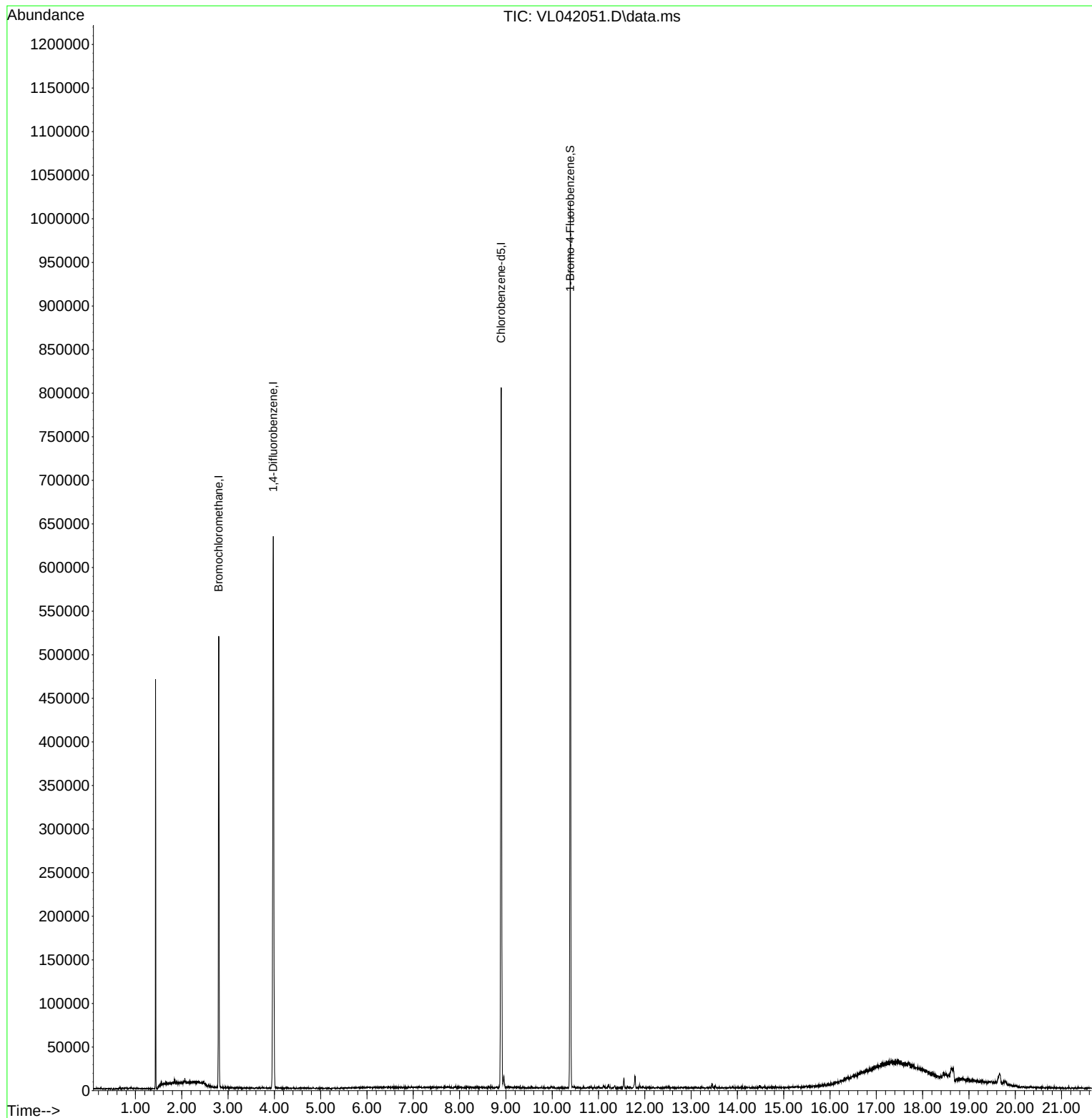
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
Data File : VL042051.D
Acq On : 26 Feb 2025 09:20
Operator : SY/MD
Sample : VL0226ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0226ABL01

Quant Time: Feb 27 00:25:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
 Data File : VL042052.D
 Acq On : 26 Feb 2025 10:04
 Operator : SY/MD
 Sample : QC021725 CAN 10271
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 QC021725 CAN 10271

Quant Time: Feb 27 00:25:40 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.794	49	152414	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.969	114	364923	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	316584	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.384	95	246219	10.109	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.100%

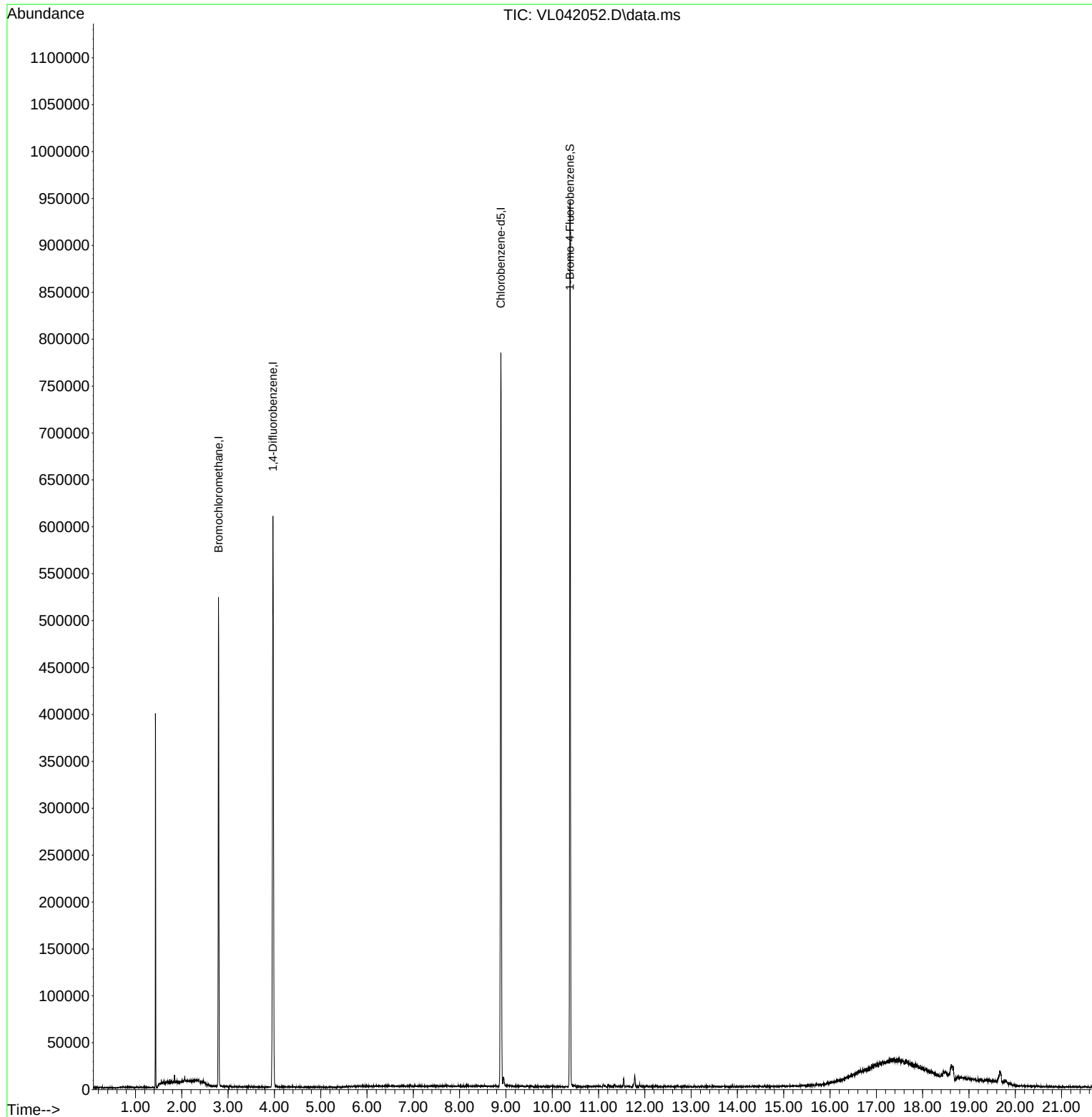
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
Data File : VL042052.D
Acq On : 26 Feb 2025 10:04
Operator : SY/MD
Sample : QC021725 CAN 10271
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC021725 CAN 10271

Quant Time: Feb 27 00:25:40 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
 Data File : VL042054.D
 Acq On : 26 Feb 2025 11:07
 Operator : SY/MD
 Sample : VL0226ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0226ABS01

Quant Time: Feb 27 00:26:21 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 02/27/2025
 Supervised By : Mahesh Dadoda 02/27/2025

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

Internal Standards						
1) Bromochloromethane	2.797	49	153181	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.972	114	369057	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.895	117	318885	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.387 95 257152 10.482 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 104.800%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	154942	9.727	ppbv	100
3) Chlorodifluoromethane	1.480	51	208345	9.358	ppbv	100
4) Chloromethane	1.538	50	53585	9.097	ppbv	99
5) Vinyl Chloride	1.583	62	54944	9.861	ppbv	96
6) Bromomethane	1.674	94	25364	9.560	ppbv	96
7) Chloroethane	1.709	64	21007	9.279	ppbv	88
8) Dichlorotetrafluoroethane	1.557	85	125091	9.553	ppbv	98
9) Propene	1.486	41	83500	9.206	ppbv	99
10) Heptane	5.001	43	256046	9.067	ppbv	99
11) Trichlorofluoromethane	1.884	101	154527	9.682	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.146	101	124837	9.805	ppbv	96
13) Ethanol	1.726	45	3000	5.211	ppbv	92
14) Bromoethene	1.787	108	43051	9.576	ppbv	99
15) Acetone	1.842	43	116404	8.605	ppbv	100
16) 1,3-Butadiene	1.612	39	57319	9.105	ppbv	99
17) tert-Butyl alcohol	2.049	59	156939	9.273	ppbv	99
18) 1,1-Dichloroethene	2.039	96	53389	9.281	ppbv	86
19) Isopropyl Alcohol	1.891	45	68899	8.867	ppbv	100
20) Methylene Chloride	2.069	84	46174	9.024	ppbv	93
21) Allyl Chloride	2.101	41	92702	9.484	ppbv	99
22) trans-1,2-Dichloroethene	2.347	96	61477	9.167	ppbv	99
23) Vinyl Acetate	2.470	43	80476	8.461	ppbv	98
24) 1,1-Dichloroethane	2.415	63	119185	9.551	ppbv	99
25) Ethyl Acetate	2.845	43	509260	9.405	ppbv	100
26) Hexane	2.836	57	194754	8.897	ppbv	94
27) Carbon Disulfide	2.156	76	144095	9.711	ppbv #	91
28) Methyl tert-Butyl Ether	2.451	73	106845	9.804	ppbv	99
29) Chloroform	2.858	83	266332	9.040	ppbv	98
30) Cyclohexane	3.871	84	158311	8.910	ppbv	94
31) cis-1,2-Dichloroethene	2.729	61	193240	9.325	ppbv	94
32) 1,1,1-Trichloroethane	3.379	97	262261	9.177	ppbv	96
34) 2-Butanone	2.567	43	292802	10.184	ppbv	97
35) Carbon Tetrachloride	3.778	117	262129	10.300	ppbv	95
36) Benzene	3.671	78	375533	9.720	ppbv	95
37) 1,2-Dichloroethane	3.231	62	218716	10.211	ppbv	98
38) Trichloroethene	4.567	130	143714	9.110	ppbv	95
39) 1,2-Dichloropropane	4.331	63	146117	9.964	ppbv	99
40) 1,4-Dioxane	4.603	88	65661	9.809	ppbv #	96
41) Tetrahydrofuran	3.066	42	172429	10.150	ppbv	98
42) Bromodichloromethane	4.506	83	289453	10.029	ppbv	100
43) Methyl Methacrylate	4.904	69	151059	10.012	ppbv	95
44) 2,2,4-Trimethylpentane	4.658	57	684336	10.036	ppbv	99
45) t-1,3-Dichloropropene	6.441	75	147062	9.811	ppbv	94

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
 Data File : VL042054.D
 Acq On : 26 Feb 2025 11:07
 Operator : SY/MD
 Sample : VL0226ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0226ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/27/2025
 Supervised By :Mahesh Dadoda 02/27/2025

Quant Time: Feb 27 00:26:21 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.626	75	191420	9.868	ppbv	98
47) 1,1,2-Trichloroethane	6.603	97	139001	9.337	ppbv	97
48) Dibromochloromethane	7.406	129	228694	9.808	ppbv	100
49) Bromoform	9.497	173	194002	9.581	ppbv	99
50) 4-Methyl-2-Pentanone	5.775	43	407870	10.969	ppbv	98
51) 2-Hexanone	7.454	43	327784	12.808	ppbv #	99
52) Tetrachloroethene	8.241	164	123860	9.365	ppbv	95
53) Toluene	6.953	91	418086	9.683	ppbv	98
54) 1,2-Dibromoethane	7.671	107	190454	9.462	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.940	131	171980	9.542	ppbv	100
57) Chlorobenzene	8.937	112	313487	9.482	ppbv	98
58) Ethyl Benzene	9.370	91	575798	9.805	ppbv	99
59) m/p-Xylene	9.565	91	909392m	19.459	ppbv	
60) o-Xylene	9.976	91	450481	9.588	ppbv	100
61) Styrene	9.882	104	218205	9.879	ppbv	100
62) Isopropylbenzene	10.552	105	678100	9.637	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.976	83	295251	9.543	ppbv	99
64) n-propylbenzene	10.999	120	178544	9.674	ppbv	95
65) tert-Butylbenzene	11.542	119	599970	9.369	ppbv	98
66) Benzyl Chloride	11.630	91	44022	9.009	ppbv	97
67) sec-Butylbenzene	11.779	105	863022	9.423	ppbv	99
69) p-Isopropyltoluene	11.937	119	715231	9.816	ppbv	99
70) n-Butylbenzene	12.293	91	744799	10.014	ppbv	99
71) 2-Chlorotoluene	10.914	91	520897	9.603	ppbv	99
72) 4-Ethyltoluene	11.138	105	558376	9.734	ppbv	99
73) 1,3,5-Trimethylbenzene	11.215	105	475566	9.557	ppbv	98
74) 1,2,4-Trimethylbenzene	11.549	105	520419	9.288	ppbv	99
75) 1,3-Dichlorobenzene	11.620	146	302808	9.390	ppbv	98
76) 1,4-Dichlorobenzene	11.685	146	298128	9.311	ppbv	99
77) 1,2-Dichlorobenzene	11.960	146	293043	9.364	ppbv	99
78) Hexachloro-1,3-Butadiene	13.892	225	216968	8.911	ppbv	99
79) Naphthalene	13.523	128	476359	12.399	ppbv	99
80) Naphthalene,2-methyl-	14.468	142	187061	17.792	ppbv	98
81) 1,2,4-Trichlorobenzene	13.452	180	218258	10.194	ppbv	99

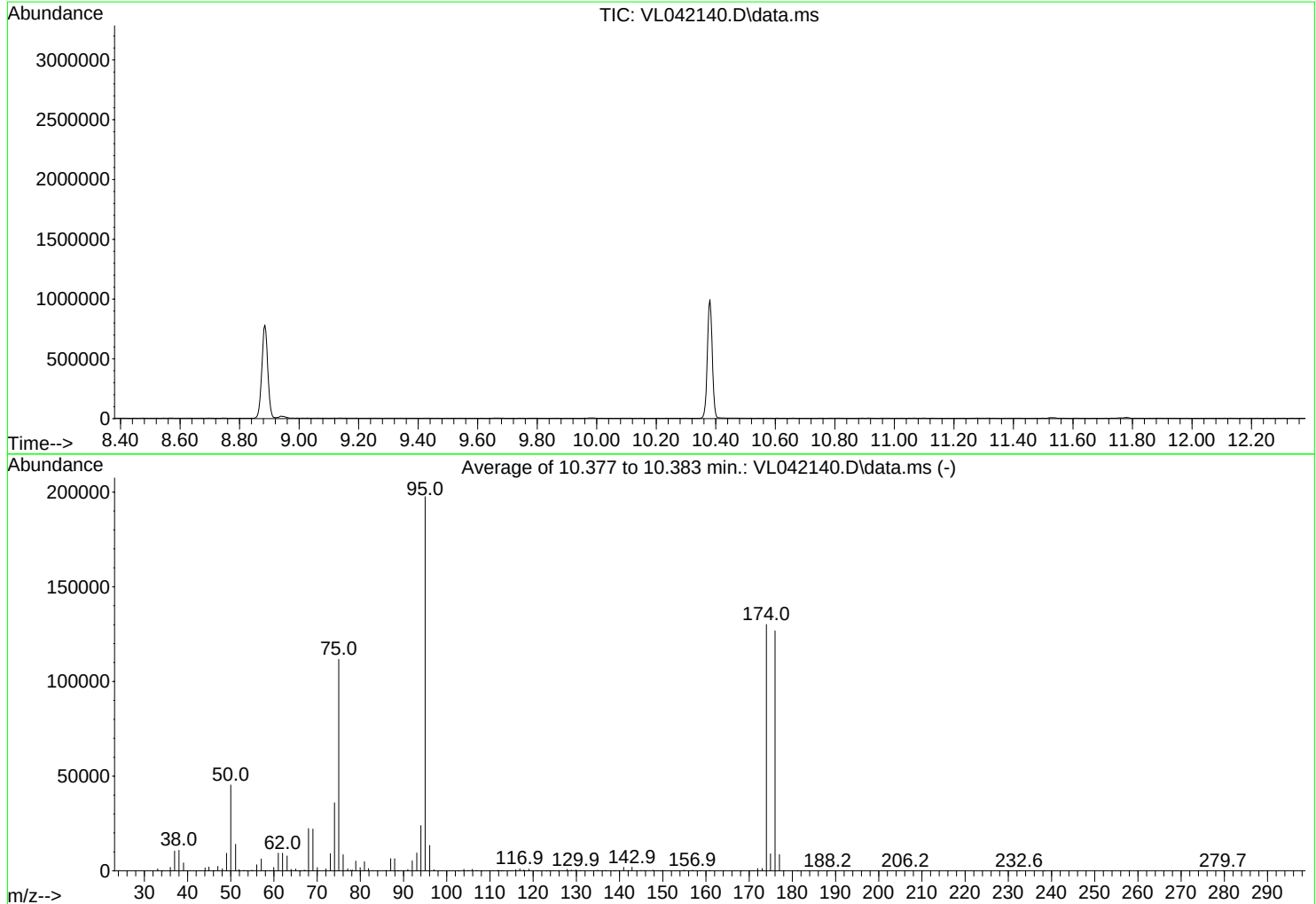
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
Data File : VL042140.D
Acq On : 14 Mar 2025 07:56
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Wed Feb 26 01:08:36 2025



AutoFind: Scans 3179, 3180, 3181; Background Corrected with Scan 3165

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	8	40	22.9	45333	PASS
75	95	30	66	56.5	111685	PASS
95	95	100	100	100.0	197589	PASS
96	95	5	9	6.8	13388	PASS
173	174	0.00	2	1.0	1315	PASS
174	95	50	120	65.9	130120	PASS
175	174	4	9	6.9	8967	PASS
176	174	93	101	97.4	126715	PASS
177	176	5	9	6.8	8618	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
 Data File : VL042141.D
 Acq On : 14 Mar 2025 08:39
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 03/17/2025
 Supervised By : Mahesh Dadoda 03/17/2025

Quant Time: Mar 14 23:16:35 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	175939	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	3.959	114	420429	10.000	ppbv	-0.02
55) Chlorobenzene-d5	8.882	117	358414	10.000	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 293332 10.638 ppbv -0.02
 Spiked Amount 10.000 Range 65 - 135 Recovery = 106.400%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	191974	10.493	ppbv	100
3) Chlorodifluoromethane	1.476	51	228149	8.922	ppbv	100
4) Chloromethane	1.532	50	72618	10.733	ppbv	97
5) Vinyl Chloride	1.580	62	70955	11.087	ppbv	96
6) Bromomethane	1.667	94	34387	11.284	ppbv	97
7) Chloroethane	1.703	64	27399	10.537	ppbv	94
8) Dichlorotetrafluoroethane	1.554	85	161623	10.746	ppbv	98
9) Propene	1.483	41	95933	9.209	ppbv	98
10) Heptane	4.979	43	269945	8.323	ppbv	98
11) Trichlorofluoromethane	1.875	101	202929	11.070	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.137	101	150319	10.280	ppbv	96
13) Ethanol	1.719	45	5940	8.982	ppbv	91
14) Bromoethene	1.781	108	55223	10.694	ppbv	99
15) Acetone	1.836	43	157921	10.164	ppbv	98
16) 1,3-Butadiene	1.609	39	76015	10.513	ppbv	99
17) tert-Butyl alcohol	2.040	59	177586	9.136	ppbv	100
18) 1,1-Dichloroethene	2.033	96	64716	9.795	ppbv	92
19) Isopropyl Alcohol	1.884	45	90039	10.088	ppbv	96
20) Methylene Chloride	2.059	84	64336	10.947	ppbv	97
21) Allyl Chloride	2.095	41	113949	10.150	ppbv	97
22) trans-1,2-Dichloroethene	2.341	96	80485	10.449	ppbv	90
23) Vinyl Acetate	2.460	43	94433	8.644	ppbv	99
24) 1,1-Dichloroethane	2.409	63	154561	10.784	ppbv	99
25) Ethyl Acetate	2.836	43	552236	8.880	ppbv	99
26) Hexane	2.823	57	224625	8.934	ppbv	98
27) Carbon Disulfide	2.150	76	186073	10.918	ppbv	99
28) Methyl tert-Butyl Ether	2.438	73	106326	8.494	ppbv	99
29) Chloroform	2.849	83	296552	8.764	ppbv	99
30) Cyclohexane	3.855	84	163459	8.010	ppbv	95
31) cis-1,2-Dichloroethene	2.719	61	193004	8.109	ppbv	98
32) 1,1,1-Trichloroethane	3.367	97	268630	8.184	ppbv	95
34) 2-Butanone	2.558	43	305355	9.323	ppbv	96
35) Carbon Tetrachloride	3.762	117	279849	9.653	ppbv	99
36) Benzene	3.655	78	399974	9.088	ppbv	95
37) 1,2-Dichloroethane	3.218	62	217321	8.906	ppbv	100
38) Trichloroethene	4.548	130	152158	8.466	ppbv	96
39) 1,2-Dichloropropane	4.315	63	150906	9.033	ppbv	96
40) 1,4-Dioxane	4.580	88	67340	8.830	ppbv #	99
41) Tetrahydrofuran	3.056	42	174452	9.014	ppbv	98
42) Bromodichloromethane	4.487	83	307764	9.361	ppbv	93
43) Methyl Methacrylate	4.881	69	145265	8.451	ppbv	96
44) 2,2,4-Trimethylpentane	4.635	57	717940	9.243	ppbv	98
45) t-1,3-Dichloropropene	6.412	75	135149	7.914	ppbv	95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
 Data File : VL042141.D
 Acq On : 14 Mar 2025 08:39
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/17/2025
 Supervised By :Mahesh Dadoda 03/17/2025

Quant Time: Mar 14 23:16:35 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.603	75	183303	8.295	ppbv	98
47) 1,1,2-Trichloroethane	6.581	97	154904	9.134	ppbv	96
48) Dibromochloromethane	7.387	129	239456	9.015	ppbv	98
49) Bromoform	9.484	173	213827	9.270	ppbv	99
50) 4-Methyl-2-Pentanone	5.755	43	408504	9.644	ppbv	96
51) 2-Hexanone	7.438	43	316988	10.872	ppbv #	98
52) Tetrachloroethene	8.225	164	129959	8.625	ppbv	98
53) Toluene	6.933	91	423735	8.614	ppbv	98
54) 1,2-Dibromoethane	7.652	107	201881	8.805	ppbv	90
56) 1,1,1,2-Tetrachloroethane	8.924	131	192287	9.492	ppbv	100
57) Chlorobenzene	8.921	112	344848	9.280	ppbv	99
58) Ethyl Benzene	9.354	91	572580	8.675	ppbv	100
59) m/p-Xylene	9.552	91	960961m	18.294	ppbv	
60) o-Xylene	9.963	91	485048	9.185	ppbv	99
61) Styrene	9.872	104	211885	8.535	ppbv	99
62) Isopropylbenzene	10.539	105	718498	9.085	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.963	83	341487	9.820	ppbv	100
64) n-propylbenzene	10.989	120	196285	9.462	ppbv	100
65) tert-Butylbenzene	11.533	119	655886	9.113	ppbv	98
66) Benzyl Chloride	11.617	91	45818	8.342	ppbv	97
67) sec-Butylbenzene	11.769	105	924266	8.979	ppbv	98
69) p-Isopropyltoluene	11.928	119	753153	9.197	ppbv	99
70) n-Butylbenzene	12.280	91	771737	9.232	ppbv	100
71) 2-Chlorotoluene	10.902	91	537863	8.822	ppbv	100
72) 4-Ethyltoluene	11.125	105	585082	9.074	ppbv	99
73) 1,3,5-Trimethylbenzene	11.203	105	494157	8.836	ppbv	98
74) 1,2,4-Trimethylbenzene	11.536	105	560827	8.905	ppbv	92
75) 1,3-Dichlorobenzene	11.607	146	336601	9.287	ppbv	98
76) 1,4-Dichlorobenzene	11.672	146	327927	9.113	ppbv	99
77) 1,2-Dichlorobenzene	11.947	146	330229	9.389	ppbv	99
78) Hexachloro-1,3-Butadiene	13.883	225	230108	8.408	ppbv	99
79) Naphthalene	13.514	128	481899	11.160	ppbv	100
80) Naphthalene,2-methyl-	14.459	142	151227	12.797	ppbv	99
81) 1,2,4-Trichlorobenzene	13.439	180	219258	9.111	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
 Data File : VL042141.D
 Acq On : 14 Mar 2025 08:39
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Mar 14 23:16:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	109	-0.02
2 T	Dichlorodifluoromethane	1.040	1.091	-4.9	126	0.00
3	Chlorodifluoromethane	1.453	1.297	10.7	108	0.00
4	Chloromethane	0.385	0.413	-7.3	131	0.00
5 T	Vinyl Chloride	0.364	0.403	-10.7	131	0.00
6 T	Bromomethane	0.173	0.195	-12.7	133	0.00
7	Chloroethane	0.148	0.156	-5.4	126	0.00
8 T	Dichlorotetrafluoroethane	0.855	0.919	-7.5	129	0.00
9 T	Propene	0.592	0.545	7.9	114	0.00
10 T	Heptane	1.844	1.534	16.8	101	-0.03
11 T	Trichlorofluoromethane	1.042	1.153	-10.7	133	0.00
12 T	1,1,2-Trichlorotrifluoroeth	0.831	0.854	-2.8	134	0.00
13	Ethanol	0.038	0.034#	10.5	187#	0.00
14 T	Bromoethene	0.293	0.314	-7.2	130	0.00
15 T	Acetone	0.883	0.898	-1.7	137	0.00
16 T	1,3-Butadiene	0.411	0.432	-5.1	132	0.00
17	tert-Butyl alcohol	1.105	1.009	8.7	116	0.00
18 T	1,1-Dichloroethene	0.376	0.368	2.1	126	0.00
19 T	Isopropyl Alcohol	0.507	0.512	-1.0	133	0.00
20 T	Methylene Chloride	0.334	0.366	-9.6	153#	0.00
21 T	Allyl Chloride	0.638	0.648	-1.6	131	0.00
22 T	trans-1,2-Dichloroethene	0.438	0.457	-4.3	140	0.00
23 T	Vinyl Acetate	0.621	0.537	13.5	113	-0.01
24 T	1,1-Dichloroethane	0.815	0.878	-7.7	143	0.00
25 T	Ethyl Acetate	3.535	3.139	11.2	108	-0.02
26 T	Hexane	1.429	1.277	10.6	109	-0.02
27 T	Carbon Disulfide	0.969	1.058	-9.2	135	0.00
28 T	Methyl tert-Butyl Ether	0.711	0.604	15.0	126	-0.01
29 T	Chloroform	1.923	1.686	12.3	107	-0.01
30 T	Cyclohexane	1.160	0.929	19.9	94	-0.02
31 T	cis-1,2-Dichloroethene	1.353	1.097	18.9	97	-0.01
32 T	1,1,1-Trichloroethane	1.866	1.527	18.2	94	-0.02
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	99	-0.02
34 T	2-Butanone	0.779	0.726	6.8	104	-0.01
35 T	Carbon Tetrachloride	0.690	0.666	3.5	101	-0.02
36 T	Benzene	1.047	0.951	9.2	98	-0.02
37 T	1,2-Dichloroethane	0.580	0.517	10.9	99	-0.02
38 T	Trichloroethene	0.427	0.362	15.2	95	-0.02
39 T	1,2-Dichloropropane	0.397	0.359	9.6	100	-0.02
40 T	1,4-Dioxane	0.181	0.160	11.6	97	-0.03
41 T	Tetrahydrofuran	0.460	0.415	9.8	99	-0.02
42 T	Bromodichloromethane	0.782	0.732	6.4	99	-0.03
43	Methyl Methacrylate	0.409	0.346	15.4	88	-0.03
44 T	2,2,4-Trimethylpentane	1.848	1.708	7.6	102	-0.03
45 T	t-1,3-Dichloropropene	0.406	0.321	20.9	81	-0.03
46 T	cis-1,3-Dichloropropene	0.526	0.436	17.1	84	-0.03
47 T	1,1,2-Trichloroethane	0.403	0.368	8.7	102	-0.03
48 T	Dibromochloromethane	0.632	0.570	9.8	95	-0.03

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
 Data File : VL042141.D
 Acq On : 14 Mar 2025 08:39
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Mar 14 23:16:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	Bromoform	0.549	0.509	7.3	96	-0.02
50 T	4-Methyl-2-Pentanone	1.008	0.972	3.6	95	-0.03
51 T	2-Hexanone	0.693	0.754	-8.8	90	-0.03
52 T	Tetrachloroethene	0.358	0.309	13.7	94	-0.02
53 T	Toluene	1.170	1.008	13.8	92	-0.03
54 T	1,2-Dibromoethane	0.545	0.480	11.9	95	-0.03
55 I	Chlorobenzene-d5	1.000	1.000	0.0	96	-0.02
56	1,1,1,2-Tetrachloroethane	0.565	0.536	5.1	102	-0.02
57 T	Chlorobenzene	1.037	0.962	7.2	101	-0.02
58 T	Ethyl Benzene	1.842	1.598	13.2	90	-0.02
59 T	m/p-Xylene	1.466	1.341	8.5	97	0.00
60 T	o-Xylene	1.473	1.353	8.1	98	-0.02
61 T	Styrene	0.693	0.591	14.7	86	-0.02
62	Isopropylbenzene	2.207	2.005	9.2	98	-0.02
63 T	1,1,2,2-Tetrachloroethane	0.970	0.953	1.8	108	-0.02
64	n-propylbenzene	0.579	0.548	5.4	100	-0.02
65	tert-Butylbenzene	2.008	1.830	8.9	101	-0.01
66 T	Benzyl Chloride	0.153	0.128	16.3	80	-0.01
67	sec-Butylbenzene	2.872	2.579	10.2	100	-0.01
68 S	1-Bromo-4-Fluorobenzene	0.769	0.818	-6.4	103	-0.02
69	p-Isopropyltoluene	2.285	2.101	8.1	100	-0.01
70	n-Butylbenzene	2.332	2.153	7.7	100	-0.02
71	2-Chlorotoluene	1.701	1.501	11.8	95	-0.02
72 T	4-Ethyltoluene	1.799	1.632	9.3	96	-0.02
73 T	1,3,5-Trimethylbenzene	1.560	1.379	11.6	96	-0.02
74 T	1,2,4-Trimethylbenzene	1.757	1.565	10.9	102	-0.02
75 T	1,3-Dichlorobenzene	1.011	0.939	7.1	104	-0.02
76 T	1,4-Dichlorobenzene	1.004	0.915	8.9	102	-0.01
77 T	1,2-Dichlorobenzene	0.981	0.921	6.1	106	-0.02
78 T	Hexachloro-1,3-Butadiene	0.764	0.642	16.0	97	-0.01
79 T	Naphthalene	1.205	1.345	-11.6	94	-0.01
80 T	Naphthalene,2-methyl-	0.330	0.422	-27.9	72	-0.01
81 T	1,2,4-Trichlorobenzene	0.671	0.612	8.8	91	-0.02

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
 Data File : VL042142.D
 Acq On : 14 Mar 2025 09:23
 Operator : SY/MD
 Sample : VL0314ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0314ABL01

Quant Time: Mar 14 23:17:29 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	167826	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	3.958	114	392046	10.000	ppbv	-0.02
55) Chlorobenzene-d5	8.881	117	329113	10.000	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.377	95	250856	9.907	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.100%

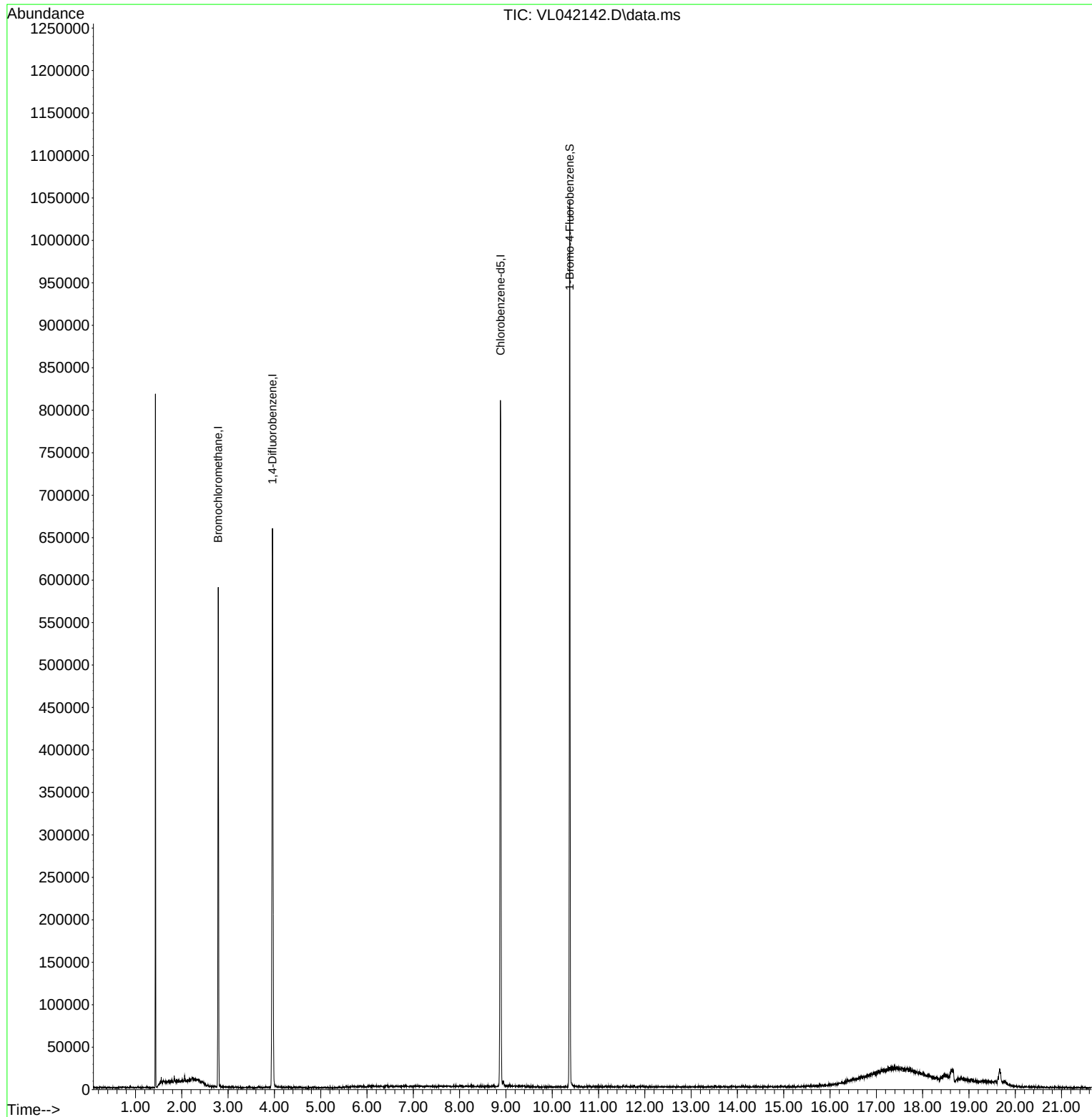
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
Data File : VL042142.D
Acq On : 14 Mar 2025 09:23
Operator : SY/MD
Sample : VL0314ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0314ABL01

Quant Time: Mar 14 23:17:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
 Data File : VL042143.D
 Acq On : 14 Mar 2025 10:09
 Operator : SY/MD
 Sample : QC031025 CAN 10267
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 QC031025 CAN 10267

Quant Time: Mar 14 23:17:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	165110	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	3.958	114	377773	10.000	ppbv	-0.02
55) Chlorobenzene-d5	8.881	117	315162	10.000	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.377	95	245153	10.111	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.100%

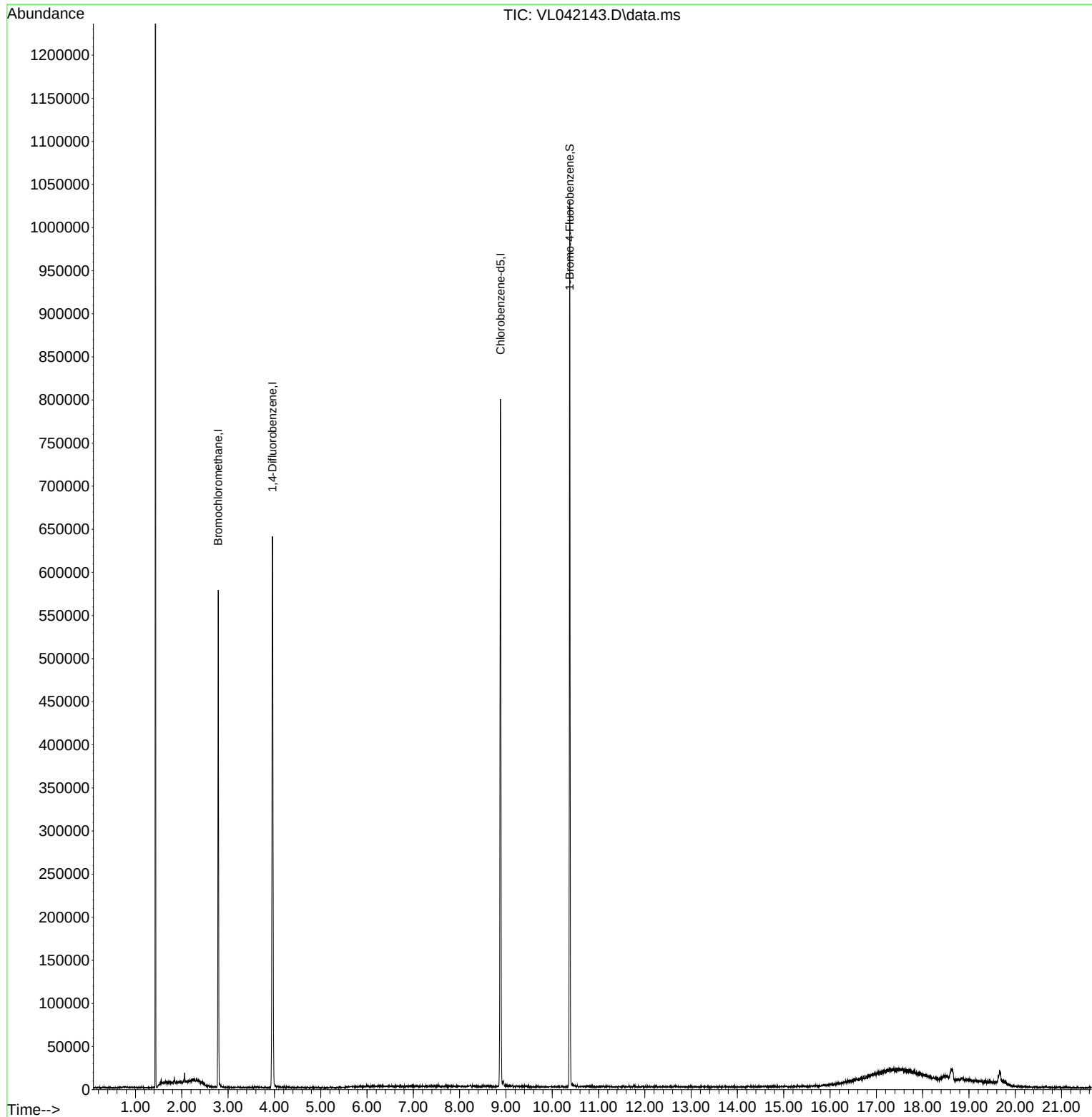
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
Data File : VL042143.D
Acq On : 14 Mar 2025 10:09
Operator : SY/MD
Sample : QC031025 CAN 10267
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC031025 CAN 10267

Quant Time: Mar 14 23:17:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
 Data File : VL042146.D
 Acq On : 14 Mar 2025 12:27
 Operator : SY/MD
 Sample : VL0314ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0314ABS01

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 03/17/2025
 Supervised By : Mahesh Dadoda 03/17/2025

Quant Time: Mar 14 23:18:44 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	163026	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	381842	10.000	ppbv	-0.02
55) Chlorobenzene-d5	8.885	117	325786	10.000	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 276407 11.028 ppbv -0.01
 Spiked Amount 10.000 Range 65 - 135 Recovery = 110.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	183411	10.819	ppbv	99
3) Chlorodifluoromethane	1.476	51	224569	9.478	ppbv	99
4) Chloromethane	1.534	50	72105	11.502	ppbv	95
5) Vinyl Chloride	1.580	62	69189	11.667	ppbv	98
6) Bromomethane	1.667	94	31681	11.220	ppbv	96
7) Chloroethane	1.706	64	27615	11.461	ppbv	92
8) Dichlorotetrafluoroethane	1.554	85	159489	11.444	ppbv	99
9) Propene	1.486	41	85053	8.811	ppbv	99
10) Heptane	4.985	43	257569	8.570	ppbv	99
11) Trichlorofluoromethane	1.877	101	201423	11.858	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.140	101	144035	10.630	ppbv	97
13) Ethanol	1.722	45	5622	9.175	ppbv	97
14) Bromoethene	1.784	108	55222	11.541	ppbv	97
15) Acetone	1.835	43	154842	10.755	ppbv	98
16) 1,3-Butadiene	1.609	39	74468	11.115	ppbv	99
17) tert-Butyl alcohol	2.042	59	168993	9.382	ppbv	96
18) 1,1-Dichloroethene	2.036	96	64700	10.568	ppbv	97
19) Isopropyl Alcohol	1.887	45	85819	10.377	ppbv #	35
20) Methylene Chloride	2.062	84	64018	11.756	ppbv	96
21) Allyl Chloride	2.098	41	110336	10.607	ppbv	97
22) trans-1,2-Dichloroethene	2.340	96	72399	10.144	ppbv	99
23) Vinyl Acetate	2.463	43	87289	8.623	ppbv #	94
24) 1,1-Dichloroethane	2.411	63	140322	10.566	ppbv	99
25) Ethyl Acetate	2.839	43	528086	9.164	ppbv	100
26) Hexane	2.826	57	215050	9.231	ppbv	98
27) Carbon Disulfide	2.153	76	170348	10.787	ppbv	100
28) Methyl tert-Butyl Ether	2.444	73	91925	7.925	ppbv	98
29) Chloroform	2.852	83	284422	9.071	ppbv	98
30) Cyclohexane	3.861	84	155818	8.240	ppbv	94
31) cis-1,2-Dichloroethene	2.722	61	180243	8.173	ppbv	99
32) 1,1,1-Trichloroethane	3.369	97	256963	8.448	ppbv	95
34) 2-Butanone	2.560	43	289331	9.726	ppbv	95
35) Carbon Tetrachloride	3.764	117	267662	10.165	ppbv	97
36) Benzene	3.661	78	376328	9.415	ppbv	99
37) 1,2-Dichloroethane	3.221	62	209658	9.460	ppbv	99
38) Trichloroethene	4.554	130	143571	8.796	ppbv	94
39) 1,2-Dichloropropane	4.318	63	142402	9.386	ppbv	97
40) 1,4-Dioxane	4.590	88	65583	9.469	ppbv #	98
41) Tetrahydrofuran	3.059	42	161433	9.184	ppbv	97
42) Bromodichloromethane	4.493	83	289116	9.682	ppbv	99
43) Methyl Methacrylate	4.884	69	133935	8.580	ppbv	95
44) 2,2,4-Trimethylpentane	4.645	57	687261	9.742	ppbv	98
45) t-1,3-Dichloropropene	6.418	75	122213	7.880	ppbv	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
 Data File : VL042146.D
 Acq On : 14 Mar 2025 12:27
 Operator : SY/MD
 Sample : VL0314ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0314ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/17/2025
 Supervised By :Mahesh Dadoda 03/17/2025

Quant Time: Mar 14 23:18:44 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.606	75	173008	8.620	ppbv	98
47) 1,1,2-Trichloroethane	6.590	97	148902	9.667	ppbv	96
48) Dibromochloromethane	7.393	129	230834	9.569	ppbv	98
49) Bromoform	9.487	173	207997	9.928	ppbv	98
50) 4-Methyl-2-Pentanone	5.761	43	388572	10.100	ppbv	95
51) 2-Hexanone	7.444	43	302871	11.438	ppbv #	97
52) Tetrachloroethene	8.228	164	123920	9.056	ppbv	98
53) Toluene	6.940	91	392631	8.789	ppbv	98
54) 1,2-Dibromoethane	7.655	107	196312	9.427	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.930	131	188895	10.258	ppbv	99
57) Chlorobenzene	8.924	112	335300	9.927	ppbv	98
58) Ethyl Benzene	9.357	91	553145	9.220	ppbv	99
59) m/p-Xylene	9.555	91	938027m	19.646	ppbv	
60) o-Xylene	9.966	91	472738	9.849	ppbv	99
61) Styrene	9.875	104	200572	8.888	ppbv	99
62) Isopropylbenzene	10.542	105	698706	9.720	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.966	83	335051	10.599	ppbv	99
64) n-propylbenzene	10.992	120	189167	10.032	ppbv	99
65) tert-Butylbenzene	11.536	119	645167	9.861	ppbv	99
66) Benzyl Chloride	11.620	91	46836	9.382	ppbv	97
67) sec-Butylbenzene	11.772	105	930077	9.940	ppbv	99
69) p-Isopropyltoluene	11.930	119	755360	10.147	ppbv	99
70) n-Butylbenzene	12.283	91	760425	10.007	ppbv	100
71) 2-Chlorotoluene	10.904	91	519669	9.378	ppbv	99
72) 4-Ethyltoluene	11.128	105	580446	9.904	ppbv	99
73) 1,3,5-Trimethylbenzene	11.209	105	489177	9.623	ppbv	99
74) 1,2,4-Trimethylbenzene	11.542	105	558174	9.751	ppbv	94
75) 1,3-Dichlorobenzene	11.610	146	329807	10.011	ppbv	100
76) 1,4-Dichlorobenzene	11.675	146	327949	10.026	ppbv	100
77) 1,2-Dichlorobenzene	11.950	146	329758	10.314	ppbv	100
78) Hexachloro-1,3-Butadiene	13.885	225	227664	9.152	ppbv	99
79) Naphthalene	13.516	128	477761	12.172	ppbv	99
80) Naphthalene,2-methyl-	14.461	142	148881	13.860	ppbv	100
81) 1,2,4-Trichlorobenzene	13.445	180	217204	9.930	ppbv	100

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

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL010925

Review By	Mahesh Dadoda	Review On	1/10/2025 7:23:31 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	1/10/2025 7:26:28 AM		
SubDirectory	VL010925	HP Acquire Method	TO15AIR.M	HP Processing Method	VL010925AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2570			
Initial Calibration Stds		AP2566,AP2567,AP2568			
CCC		AP2566			
Internal Standard/PEM		AP2570			
ICV/I.BLK		AO2564			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL041857.D	09 Jan 2025 09:48	SY/MD	Ok
2	VSTDIC0.5	VL041858.D	09 Jan 2025 10:33	SY/MD	Not Ok
3	VSTDICCC010	VL041859.D	09 Jan 2025 11:19	SY/MD	Ok,M
4	VSTDIC002	VL041860.D	09 Jan 2025 11:52	SY/MD	Ok,M
5	VSTDIC001	VL041861.D	09 Jan 2025 12:22	SY/MD	Ok,M
6	VSTDIC0.5	VL041862.D	09 Jan 2025 12:53	SY/MD	Ok,M
7	VSTDIC0.1	VL041863.D	09 Jan 2025 13:24	SY/MD	Ok,M
8	VSTDIC0.03	VL041864.D	09 Jan 2025 13:54	SY/MD	Ok,M
9	VSTDIC015	VL041865.D	09 Jan 2025 14:27	SY/MD	Ok,M
10	VSTDICV010	VL041866.D	09 Jan 2025 15:15	SY/MD	Ok,M
11	VL0109ABL01	VL041867.D	09 Jan 2025 16:00	SY/MD	Ok
12	VL0109ABL02	VL041868.D	09 Jan 2025 16:31	SY/MD	Ok
13	VL0109ABL03	VL041869.D	09 Jan 2025 17:01	SY/MD	Ok
14	VL0109ABS01	VL041870.D	09 Jan 2025 17:32	SY/MD	Ok,M
15	VIBLK	VL041871.D	09 Jan 2025 18:02	SY/MD	Ok
16	Q1037-01	VL041872.D	09 Jan 2025 18:37	SY/MD	Ok,M
17	Q1037-02	VL041873.D	09 Jan 2025 19:10	SY/MD	Ok,M
18	Q1037-03	VL041874.D	09 Jan 2025 19:43	SY/MD	Ok,M
19	Q1037-03DUP	VL041875.D	09 Jan 2025 20:16	SY/MD	Ok,M
20	QC010725 CAN 10601	VL041876.D	09 Jan 2025 20:46	SY/MD	Ok
21	MDL 0.4	VL041877.D	09 Jan 2025 21:16	SY/MD	Ok,M

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL010925

Review By	Maresh Dadoda	Review On	1/10/2025 7:23:31 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	1/10/2025 7:26:28 AM		
SubDirectory	VL010925	HP Acquire Method	TO15AIR.M	HP Processing Method	VL010925AIR.M
STD. NAME	STD REF.#				
Tune/Reschk	AP2570				
Initial Calibration Stds	AP2566,AP2567,AP2568				
CCC	AP2566				
Internal Standard/PEM	AP2570				
ICV/I.BLK	AO2564				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	MDL 0.4	VL041878.D	09 Jan 2025 21:46	SY/MD	Ok,M
23	MDL 0.4	VL041879.D	09 Jan 2025 22:17	SY/MD	Ok,M
24	MDL 0.1	VL041880.D	09 Jan 2025 22:47	SY/MD	Ok,M
25	MDL 0.1	VL041881.D	09 Jan 2025 23:17	SY/MD	Ok,M
26	MDL 0.1	VL041882.D	09 Jan 2025 23:47	SY/MD	Ok,M
27	MDL 0.03	VL041883.D	10 Jan 2025 00:17	SY/MD	Ok,M
28	MDL 0.03	VL041884.D	10 Jan 2025 00:47	SY/MD	Ok,M
29	MDL 0.03	VL041885.D	10 Jan 2025 01:18	SY/MD	Ok,M
30	VSTDCCC010	VL041886.D	10 Jan 2025 01:48	SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL011425

Review By	Maresh Dadoda	Review On	1/15/2025 12:59:33 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	1/15/2025 1:00:29 PM		
SubDirectory	VL011425	HP Acquire Method	TO15AIR.M	HP Processing Method	VL011425AIR.M
STD. NAME		STD REF.#			
Tune/Reschk	AP2569				
Initial Calibration Stds	AP2571,AP2572,AP2573				
CCC	AP2571				
Internal Standard/PEM	AP2569				
ICV/I.BLK	AP2574,MDL,AP2572,AP2573				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL041887.D	14 Jan 2025 07:50	SY/MD	Ok
2	VSTDIC0.5	VL041888.D	14 Jan 2025 11:40	SY/MD	Not Ok
3	VSTDICCC010	VL041889.D	14 Jan 2025 12:55	SY/MD	Ok,M
4	VSTDIC002	VL041890.D	14 Jan 2025 13:28	SY/MD	Ok,M
5	VSTDIC001	VL041891.D	14 Jan 2025 13:59	SY/MD	Ok,M
6	VSTDIC0.5	VL041892.D	14 Jan 2025 14:30	SY/MD	Ok,M
7	VSTDIC0.1	VL041893.D	14 Jan 2025 15:01	SY/MD	Ok,M
8	VSTDIC0.03	VL041894.D	14 Jan 2025 15:32	SY/MD	Ok,M
9	VSTDIC015	VL041895.D	14 Jan 2025 16:05	SY/MD	Ok,M
10	VSTDICV010	VL041896.D	14 Jan 2025 17:33	SY/MD	Ok,M
11	VL0114ABL01	VL041897.D	14 Jan 2025 18:34	SY/MD	Ok
12	VL0114ABL02	VL041898.D	14 Jan 2025 19:05	SY/MD	Ok
13	VL0114ABS01	VL041899.D	14 Jan 2025 19:36	SY/MD	Ok,M
14	VIBLK	VL041900.D	14 Jan 2025 20:07	SY/MD	Ok
15	Q1073-04	VL041901.D	14 Jan 2025 20:40	SY/MD	Ok,M
16	Q1073-04DUP	VL041902.D	14 Jan 2025 21:14	SY/MD	Ok,M
17	Q1073-05	VL041903.D	14 Jan 2025 21:47	SY/MD	Ok,M
18	Q1073-06	VL041904.D	14 Jan 2025 22:21	SY/MD	Ok,M
19	Q1073-01	VL041905.D	14 Jan 2025 22:51	SY/MD	Ok,M
20	Q1073-02	VL041906.D	14 Jan 2025 23:22	SY/MD	Ok,M
21	Q1073-03	VL041907.D	14 Jan 2025 23:52	SY/MD	Ok,M

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL011425

Review By	Maresh Dadoda	Review On	1/15/2025 12:59:33 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	1/15/2025 1:00:29 PM		
SubDirectory	VL011425	HP Acquire Method	TO15AIR.M	HP Processing Method	VL011425AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2569			
Initial Calibration Stds		AP2571,AP2572,AP2573			
CCC		AP2571			
Internal Standard/PEM		AP2569			
ICV/I.BLK		AP2574,MDL,AP2572,AP2573			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	VIBLK	VL041908.D	15 Jan 2025 00:22	SY/MD	Ok
23	MDL 0.4	VL041909.D	15 Jan 2025 00:52	SY/MD	Ok,M
24	MDL 0.4	VL041910.D	15 Jan 2025 01:23	SY/MD	Ok,M
25	MDL 0.1	VL041911.D	15 Jan 2025 01:53	SY/MD	Ok,M
26	MDL 0.1	VL041912.D	15 Jan 2025 02:23	SY/MD	Ok,M
27	MDL 0.03	VL041913.D	15 Jan 2025 02:53	SY/MD	Ok,M
28	MDL 0.03	VL041914.D	15 Jan 2025 03:23	SY/MD	Ok,M
29	VSTDCCC010	VL041915.D	15 Jan 2025 08:37	SY/MD	Not Ok

M : Manual Integration

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL020325

Review By	Semsettin Yesilyurt	Review On	2/4/2025 9:24:56 AM		
Supervise By	Maresh Dadoda	Supervise On	2/4/2025 3:44:53 PM		
SubDirectory	VL020325	HP Acquire Method	TO15AIR.M	HP Processing Method	VL011425AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2569			
Initial Calibration Stds		AP2571,AP2572,AP2573			
CCC		AP2571			
Internal Standard/PEM		AP2569			
ICV/I.BLK		AP2574			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL041957.D	03 Feb 2025 09:47	SY/MD	Ok
2	VSTDCCC010	VL041958.D	03 Feb 2025 10:48	SY/MD	Ok,M
3	VL0203ABL01	VL041959.D	03 Feb 2025 11:34	SY/MD	Ok
4	VL0203ABL02	VL041960.D	03 Feb 2025 12:05	SY/MD	Ok
5	VL0203ABS01	VL041961.D	03 Feb 2025 12:57	SY/MD	Ok,M
6	Q1222-01	VL041962.D	03 Feb 2025 13:57	SY/MD	Ok,M
7	Q1222-01DL	VL041963.D	03 Feb 2025 14:28	SY/MD	Not Ok
8	Q1256-01	VL041964.D	03 Feb 2025 14:59	SY/MD	Ok,M
9	Q1256-01DL	VL041965.D	03 Feb 2025 15:30	SY/MD	Not Ok
10	QC012825 CAN 10439	VL041966.D	03 Feb 2025 16:02	SY/MD	Ok
11	Q1222-02	VL041967.D	03 Feb 2025 16:35	SY/MD	Ok,M
12	Q1222-02DUP	VL041968.D	03 Feb 2025 17:08	SY/MD	Ok,M
13	Q1222-03	VL041969.D	03 Feb 2025 17:41	SY/MD	Ok,M
14	Q1256-02	VL041970.D	03 Feb 2025 18:15	SY/MD	Ok,M
15	Q1168-14 0.03	VL041971.D	03 Feb 2025 21:01	SY/MD	Not Ok
16	Q1168-13 0.03	VL041972.D	03 Feb 2025 21:32	SY/MD	Ok,M
17	Q1168-14 0.03	VL041973.D	03 Feb 2025 22:13	SY/MD	Ok,M
18	QC020325 CAN 10599	VL041974.D	04 Feb 2025 08:03	SY/MD	Ok
19	VSTDCCC010	VL041975.D	04 Feb 2025 08:34	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL022525

Review By	Semsettin Yesilyurt	Review On	2/26/2025 8:27:25 AM		
Supervise By	Maresh Dadoda	Supervise On	2/26/2025 1:45:21 PM		
SubDirectory	VL022525	HP Acquire Method	TO15AIR.M	HP Processing Method	VL022525AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2576			
Initial Calibration Stds		AP2582,AP2584,AP2585			
CCC		AP2582			
Internal Standard/PEM		AP2576			
ICV/I.BLK		AP2586			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042040.D	25 Feb 2025 07:56	SY/MD	Ok
2	VSTDIC010	VL042041.D	25 Feb 2025 08:56	SY/MD	Ok,M
3	VSTDIC002	VL042042.D	25 Feb 2025 09:29	SY/MD	Ok,M
4	VSTDIC001	VL042043.D	25 Feb 2025 10:00	SY/MD	Ok,M
5	VSTDIC0.5	VL042044.D	25 Feb 2025 10:31	SY/MD	Ok,M
6	VSTDIC0.1	VL042045.D	25 Feb 2025 11:03	SY/MD	Ok,M
7	VSTDIC0.03	VL042046.D	25 Feb 2025 11:34	SY/MD	Ok,M
8	VSTDIC015	VL042047.D	25 Feb 2025 12:07	SY/MD	Ok,M
9	VSTDICV010	VL042048.D	25 Feb 2025 13:15	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL022625

Review By	Semsettin Yesilyurt	Review On	2/27/2025 10:12:04 AM		
Supervise By	Maresh Dadoda	Supervise On	2/27/2025 12:13:24 PM		
SubDirectory	VL022625	HP Acquire Method	TO15AIR.M	HP Processing Method	VL022525AIR.M
STD. NAME		STD REF.#			
Tune/Reschk	AP2576				
Initial Calibration Stds	AP2582,AP2584,AP2585				
CCC	AP2582				
Internal Standard/PEM	AP2576				
ICV/I.BLK	AP2586				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042049.D	26 Feb 2025 07:46	SY/MD	Ok
2	VSTDCCC010	VL042050.D	26 Feb 2025 08:38	SY/MD	Ok,M
3	VL0226ABL01	VL042051.D	26 Feb 2025 09:20	SY/MD	Ok
4	QC021725 CAN 10271	VL042052.D	26 Feb 2025 10:04	SY/MD	Ok
5	QC022525 CAN 10795	VL042053.D	26 Feb 2025 10:36	SY/MD	Ok
6	VL0226ABS01	VL042054.D	26 Feb 2025 11:07	SY/MD	Ok,M
7	Q1419-02	VL042055.D	26 Feb 2025 11:40	SY/MD	Ok,M
8	Q1430-05	VL042056.D	26 Feb 2025 12:14	SY/MD	Ok,M
9	Q1430-05DUP	VL042057.D	26 Feb 2025 12:48	SY/MD	Ok,M
10	Q1430-06	VL042058.D	26 Feb 2025 13:21	SY/MD	Ok,M
11	Q1430-06DL	VL042059.D	26 Feb 2025 13:52	SY/MD	Not Ok
12	Q1419-01	VL042060.D	26 Feb 2025 14:24	SY/MD	Dilution
13	Q1419-01DL	VL042061.D	26 Feb 2025 14:55	SY/MD	Not Ok
14	Q1419-01DL	VL042062.D	26 Feb 2025 15:27	SY/MD	Ok,M
15	Q1419-01DL2	VL042063.D	26 Feb 2025 15:58	SY/MD	Not Ok
16	VSTDCCC010	VL042064.D	26 Feb 2025 16:29	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL031425

Review By	Semsettin Yesilyurt	Review On	3/17/2025 8:36:35 AM		
Supervise By	Maresh Dadoda	Supervise On	3/17/2025 1:46:41 PM		
SubDirectory	VL031425	HP Acquire Method	TO15AIR.M	HP Processing Method	VL022525AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2588			
Initial Calibration Stds		AP2582,AP2584,AP2585			
CCC		AP2582			
Internal Standard/PEM		AP2588			
ICV/I.BLK		AP2586			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042140.D	14 Mar 2025 07:56	SY/MD	Ok
2	VSTDCCC010	VL042141.D	14 Mar 2025 08:39	SY/MD	Ok,M
3	VL0314ABL01	VL042142.D	14 Mar 2025 09:23	SY/MD	Ok
4	QC031025 CAN 10267	VL042143.D	14 Mar 2025 10:09	SY/MD	Ok
5	QC031225 CAN 10300	VL042144.D	14 Mar 2025 10:40	SY/MD	Not Ok
6	QC031325 CAN 10266	VL042145.D	14 Mar 2025 11:11	SY/MD	Ok
7	VL0314ABS01	VL042146.D	14 Mar 2025 12:27	SY/MD	Ok,M
8	QC031225 CAN 10300	VL042147.D	14 Mar 2025 15:56	SY/MD	Ok
9	QC031225 CAN 10300	VL042148.D	14 Mar 2025 16:29	SY/MD	Not Ok

M : Manual Integration

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042349.D
 Acq On : 17 Apr 2025 09:44
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Quant Time: Apr 18 01:25:08 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 01:24:29 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	125455	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	366544	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	338126	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	281013	10.114	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.100%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	207962	9.382	ppbv	100
3) Chlorodifluoromethane	1.476	51	197334	9.350	ppbv	100
4) Chloromethane	1.531	50	81843	9.330	ppbv	100
5) Vinyl Chloride	1.580	62	80068	8.385	ppbv	100
6) Bromomethane	1.667	94	38128	9.219	ppbv	100
7) Chloroethane	1.703	64	31705	9.182	ppbv	100
8) Dichlorotetrafluoroethane	1.554	85	179696	9.442	ppbv	100
9) Propene	1.483	41	86530	9.002	ppbv	100
10) Heptane	4.978	43	236341	9.138	ppbv	100
11) Trichlorofluoromethane	1.877	101	196596	9.327	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.136	101	160682	9.323	ppbv	100
13) Ethanol	1.719	45	4439	5.651	ppbv	100
14) Bromoethene	1.780	108	61493	9.466	ppbv	100
15) Acetone	1.835	43	158490	7.717	ppbv	100
16) 1,3-Butadiene	1.609	39	81688	8.470	ppbv	100
17) tert-Butyl alcohol	2.039	59	226280	8.891	ppbv	100
18) 1,1-Dichloroethene	2.033	96	73186	8.833	ppbv	100
19) Isopropyl Alcohol	1.884	45	103029	9.031	ppbv	100
20) Methylene Chloride	2.062	84	62414	7.760	ppbv	100
21) Allyl Chloride	2.094	41	122115	8.611	ppbv	100
22) trans-1,2-Dichloroethene	2.340	96	83278	9.084	ppbv	100
23) Vinyl Acetate	2.460	43	69649	8.378	ppbv	100
24) 1,1-Dichloroethane	2.408	63	161102	9.251	ppbv	100
25) Ethyl Acetate	2.836	43	461315	9.110	ppbv	100
26) Hexane	2.826	57	178691	8.720	ppbv	100
27) Carbon Disulfide	2.149	76	209297	9.539	ppbv	100
28) Methyl tert-Butyl Ether	2.441	73	117924	8.783	ppbv	100
29) Chloroform	2.848	83	269088	9.290	ppbv	100
30) Cyclohexane	3.855	84	157035	9.517	ppbv	100
31) cis-1,2-Dichloroethene	2.719	61	183082	9.397	ppbv	100
32) 1,1,1-Trichloroethane	3.366	97	285336	9.187	ppbv	100
34) 2-Butanone	2.557	43	251704	8.683	ppbv	100
35) Carbon Tetrachloride	3.761	117	282402	8.513	ppbv	100
36) Benzene	3.654	78	367355	9.292	ppbv	100
37) 1,2-Dichloroethane	3.217	62	216999	9.145	ppbv	100
38) Trichloroethene	4.548	130	144767	8.352	ppbv	100
39) 1,2-Dichloropropane	4.311	63	135605	9.197	ppbv	100
40) 1,4-Dioxane	4.580	88	66662	8.348	ppbv #	100
41) Tetrahydrofuran	3.052	42	149905	8.950	ppbv	100
42) Bromodichloromethane	4.489	83	312268	9.456	ppbv	100
43) Methyl Methacrylate	4.881	69	157501	8.876	ppbv	100
44) 2,2,4-Trimethylpentane	4.642	57	626085	9.157	ppbv	100
45) t-1,3-Dichloropropene	6.415	75	168223	9.233	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042349.D
 Acq On : 17 Apr 2025 09:44
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

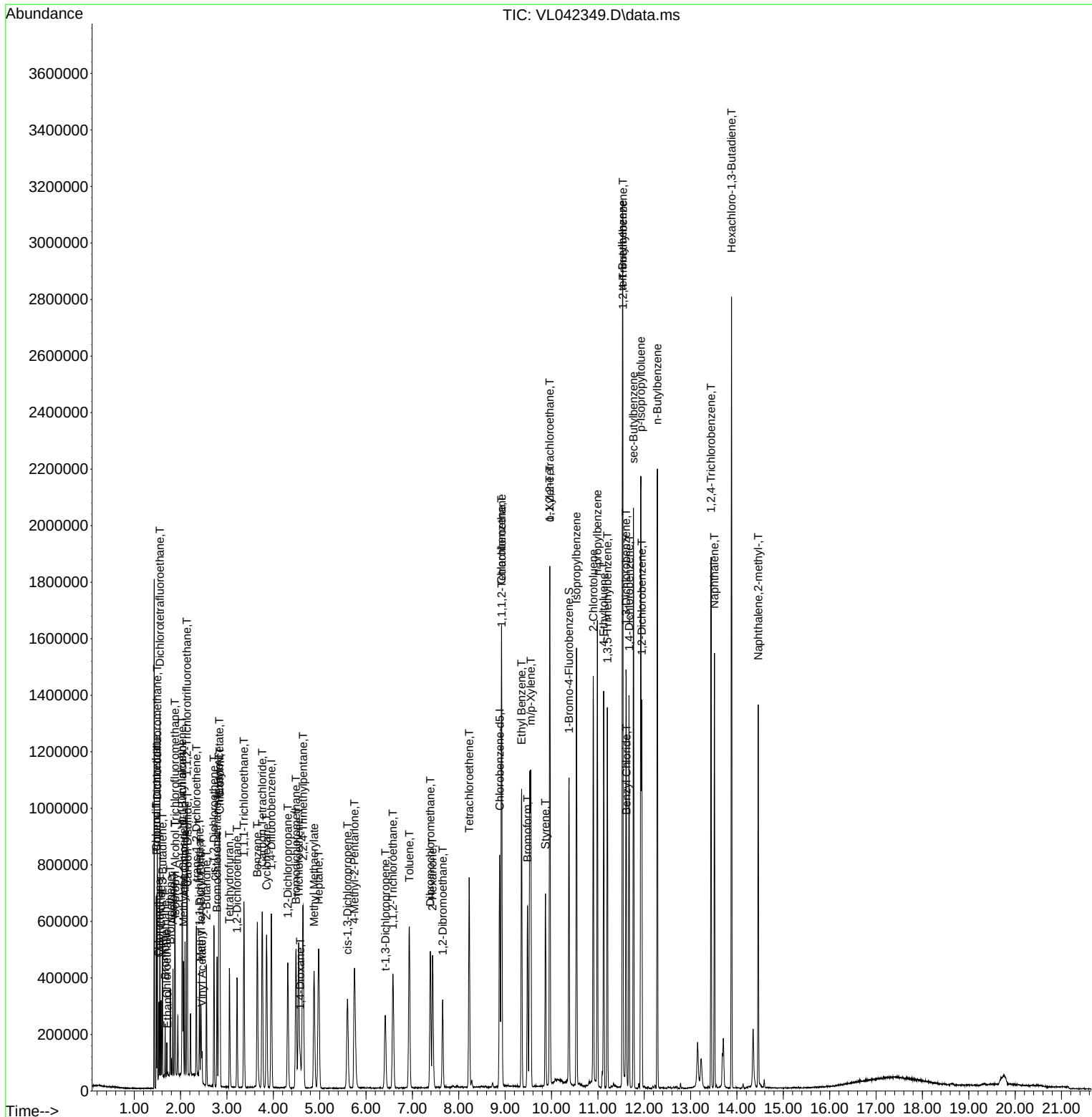
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 MSVOA_L
 ClientSampleId :
 VSTDICCC010

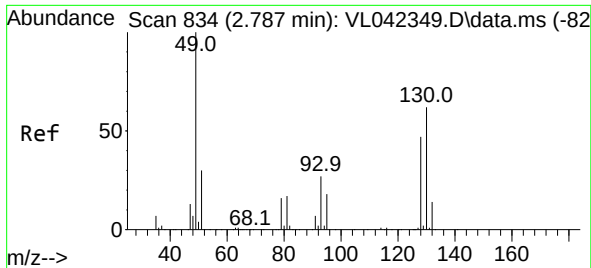
Quant Time: Apr 18 01:25:08 2025
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 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 01:24:29 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.600	75	208811	9.377	ppbv	100
47) 1,1,2-Trichloroethane	6.580	97	137898	9.181	ppbv	100
48) Dibromochloromethane	7.386	129	248954	9.388	ppbv	100
49) Bromoform	9.480	173	225706	9.734	ppbv	100
50) 4-Methyl-2-Pentanone	5.752	43	396548	8.215	ppbv	100
51) 2-Hexanone	7.435	43	327165	7.511	ppbv	100
52) Tetrachloroethene	8.225	164	130720	8.553	ppbv	100
53) Toluene	6.933	91	437258	9.216	ppbv	100
54) 1,2-Dibromoethane	7.652	107	197665	9.235	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.927	131	186041	9.091	ppbv	100
57) Chlorobenzene	8.920	112	323084	9.187	ppbv	100
58) Ethyl Benzene	9.354	91	619581	9.248	ppbv	100
59) m/p-Xylene	9.552	91	449222	8.299	ppbv #	19
60) o-Xylene	9.963	91	487616	8.972	ppbv	100
61) Styrene	9.869	104	245487	9.464	ppbv	100
62) Isopropylbenzene	10.539	105	733788	9.197	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.963	83	295041	8.355	ppbv	100
64) n-propylbenzene	10.989	120	183390	9.144	ppbv	100
65) tert-Butylbenzene	11.532	119	644953	8.795	ppbv	100
66) Benzyl Chloride	11.617	91	83269	10.333	ppbv	100
67) sec-Butylbenzene	11.769	105	900074	8.824	ppbv	100
69) p-Isopropyltoluene	11.927	119	778987	8.790	ppbv	100
70) n-Butylbenzene	12.283	91	801364	8.682	ppbv	100
71) 2-Chlorotoluene	10.901	91	573039	9.157	ppbv	100
72) 4-Ethyltoluene	11.125	105	596757	8.982	ppbv	100
73) 1,3,5-Trimethylbenzene	11.205	105	512855	8.743	ppbv	100
74) 1,2,4-Trimethylbenzene	11.539	105	565064	8.248	ppbv	100
75) 1,3-Dichlorobenzene	11.607	146	320380	8.997	ppbv	100
76) 1,4-Dichlorobenzene	11.672	146	319089	8.915	ppbv	100
77) 1,2-Dichlorobenzene	11.947	146	305822	8.832	ppbv	100
78) Hexachloro-1,3-Butadiene	13.882	225	291833	8.346	ppbv	100
79) Naphthalene	13.513	128	677578	8.271	ppbv	100
80) Naphthalene,2-methyl-	14.458	142	376995	8.074	ppbv	100
81) 1,2,4-Trichlorobenzene	13.442	180	306119	8.702	ppbv	100

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

Quant Time: Apr 18 01:25:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

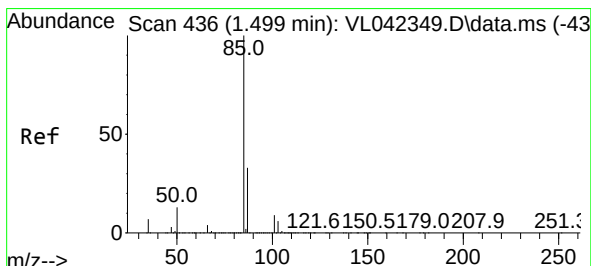
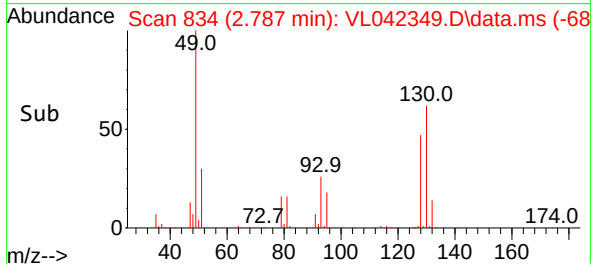
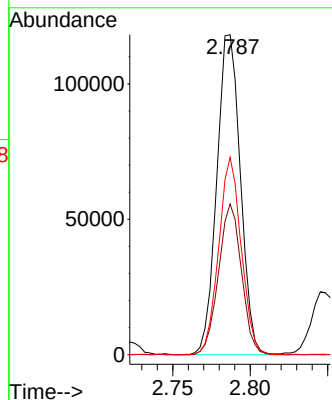
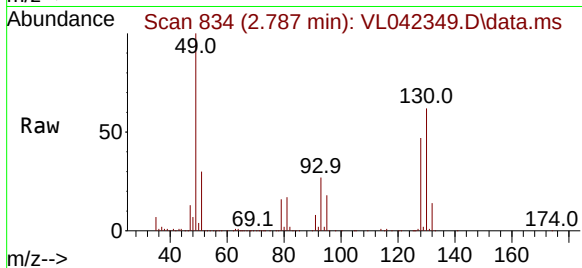




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.787 min Scan# 834
 Delta R.T. -0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44

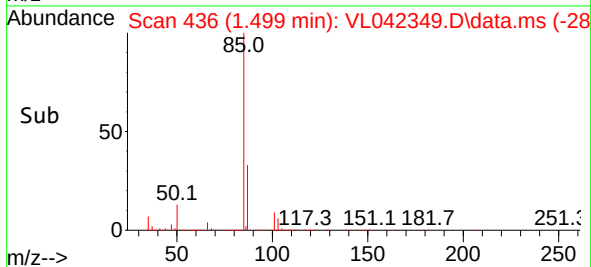
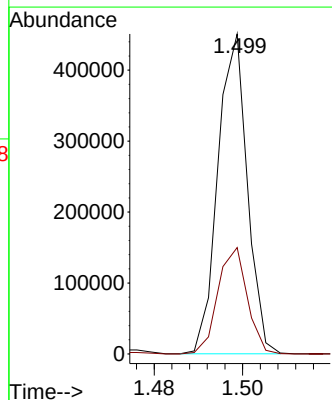
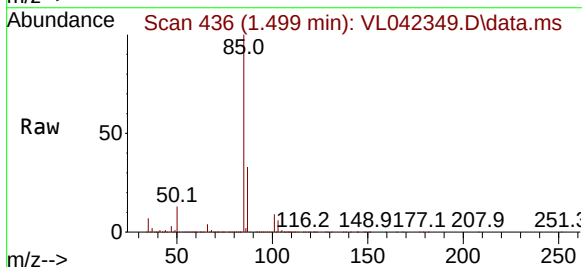
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 ClientSampleId :
 VSTDICCC010

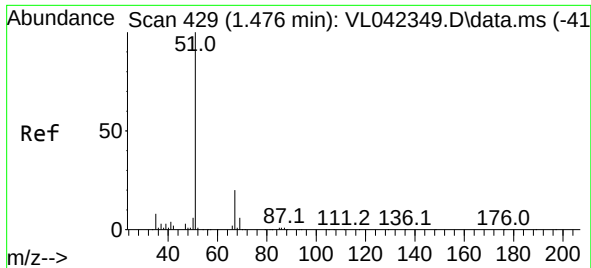
Tgt Ion: 49 Resp: 125455
 Ion Ratio Lower Upper
 49 100
 128 45.6 22.8 68.4
 130 58.7 29.3 88.0



#2
 Dichlorodifluoromethane
 Concen: 9.382 ppbv
 RT: 1.499 min Scan# 436
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44

Tgt Ion: 85 Resp: 207962
 Ion Ratio Lower Upper
 85 100
 87 33.2 26.6 39.8





#3

Chlorodifluoromethane

Concen: 9.350 ppbv

RT: 1.476 min Scan# 429

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

Instrument :

MSVOA_1

ClientSampleId :

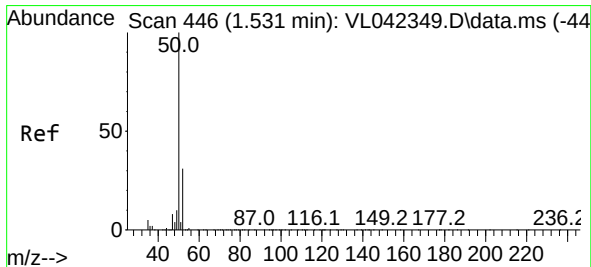
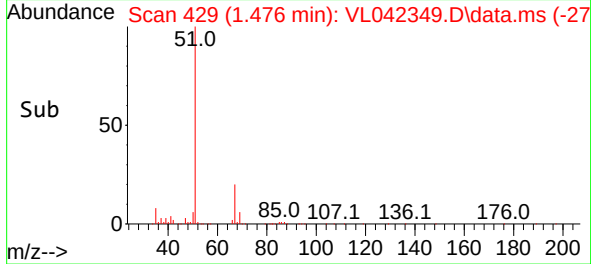
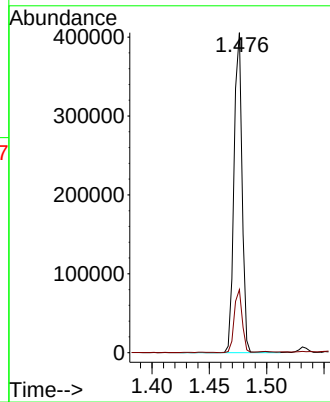
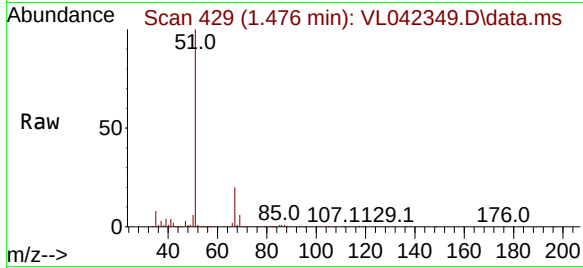
VSTDICCC010

Tgt Ion: 51 Resp: 197334

Ion Ratio Lower Upper

51 100

67 20.3 16.2 24.4



#4

Chloromethane

Concen: 9.330 ppbv

RT: 1.531 min Scan# 446

Delta R.T. 0.000 min

Lab File: VL042349.D

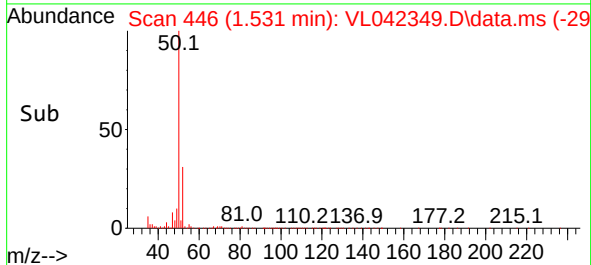
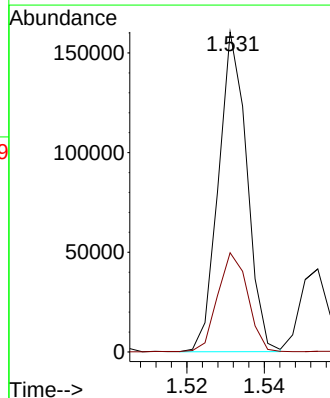
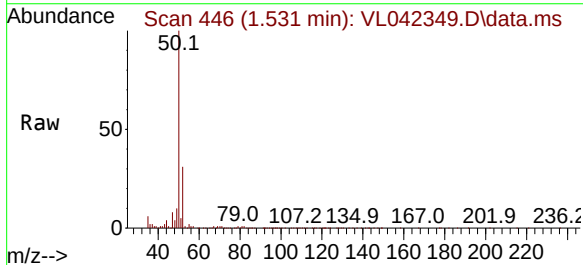
Acq: 17 Apr 2025 09:44

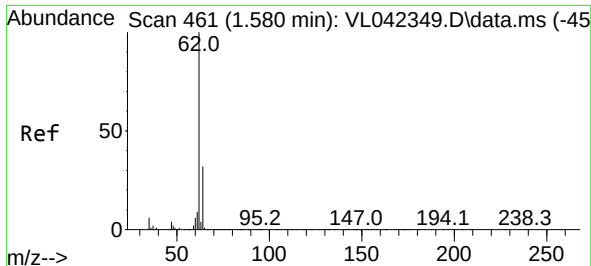
Tgt Ion: 50 Resp: 81843

Ion Ratio Lower Upper

50 100

52 30.9 24.7 37.1

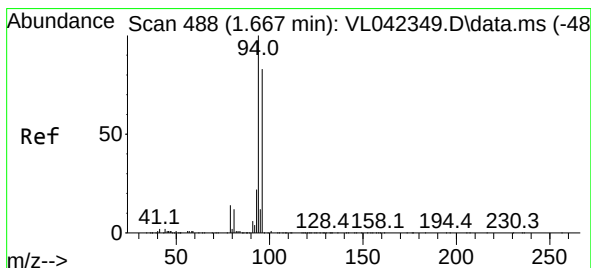
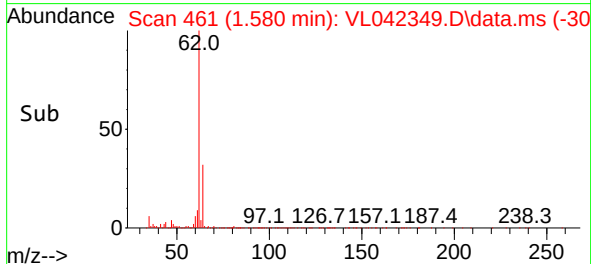
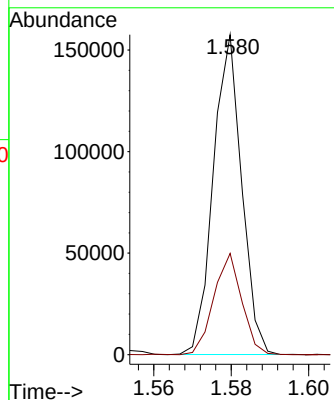
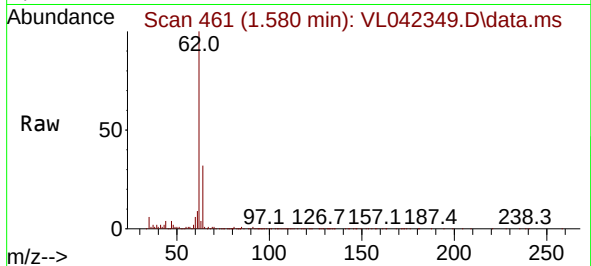




#5
 Vinyl Chloride
 Concen: 8.385 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44

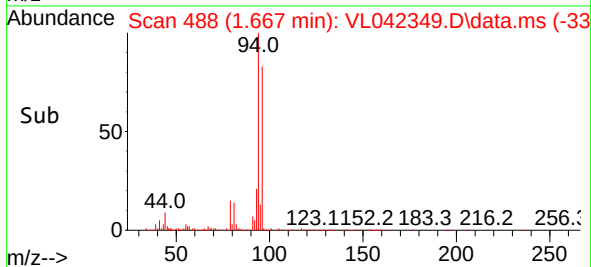
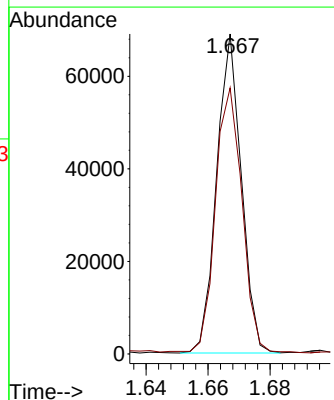
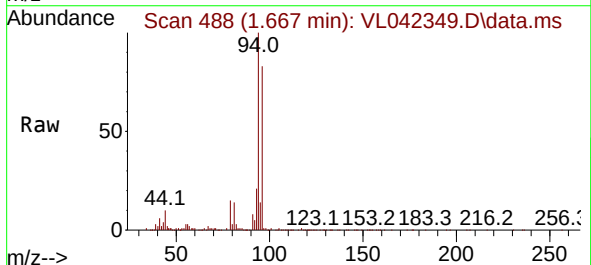
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

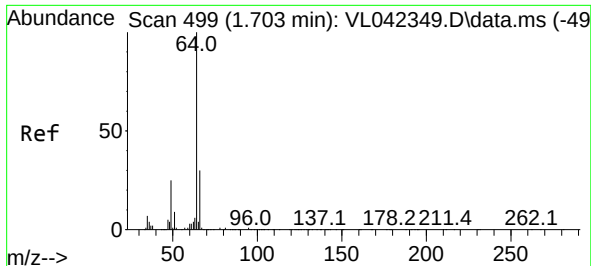
Tgt Ion: 62 Resp: 80068
 Ion Ratio Lower Upper
 62 100
 64 31.7 25.4 38.0



#6
 Bromomethane
 Concen: 9.219 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44

Tgt Ion: 94 Resp: 38128
 Ion Ratio Lower Upper
 94 100
 96 82.7 66.2 99.2

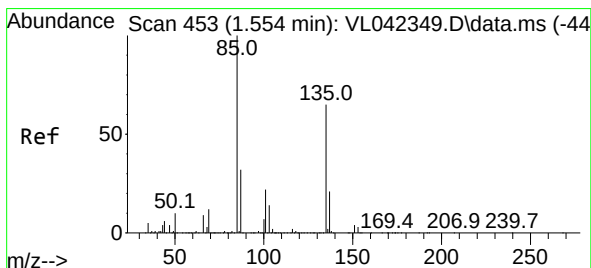
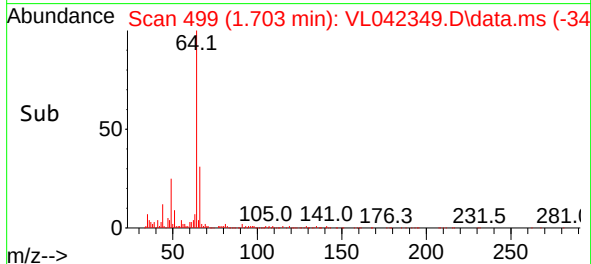
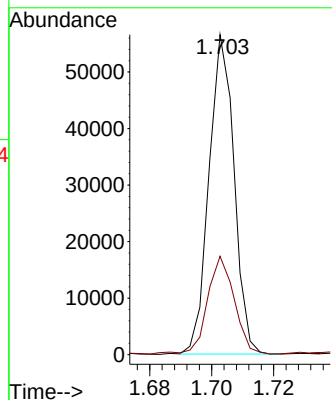
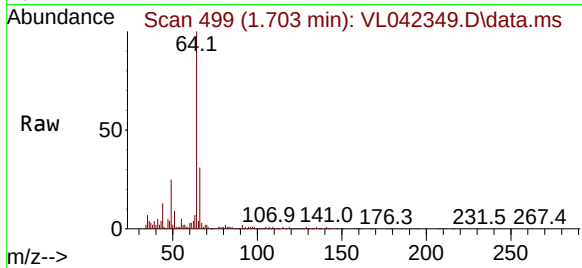




#7
Chloroethane
Concen: 9.182 ppbv
RT: 1.703 min Scan# 499
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

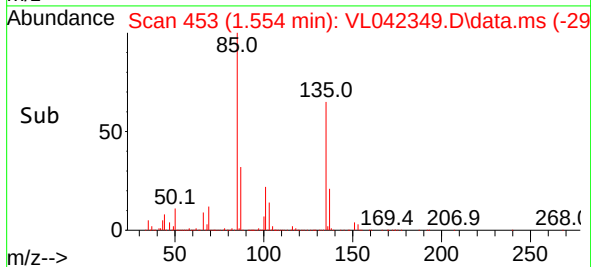
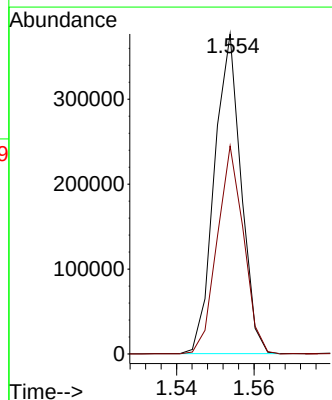
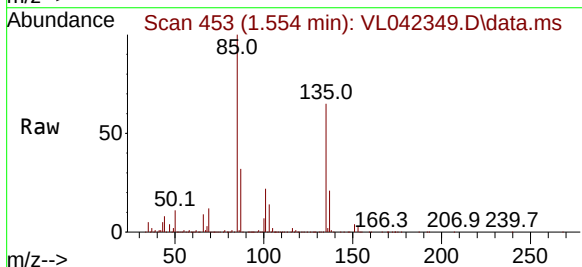
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

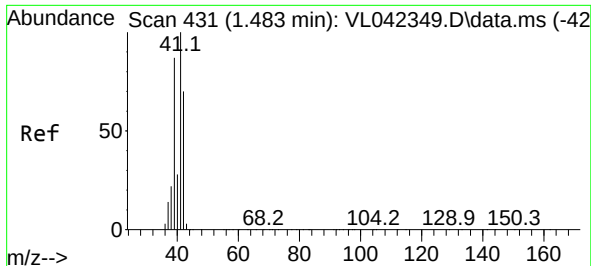
Tgt Ion: 64 Resp: 31705
Ion Ratio Lower Upper
64 100
66 30.8 24.6 37.0



#8
Dichlorotetrafluoroethane
Concen: 9.442 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 85 Resp: 179696
Ion Ratio Lower Upper
85 100
135 65.2 52.2 78.2





#9

Propene

Concen: 9.002 ppbv

RT: 1.483 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

Instrument :

MSVOA_L

ClientSampleId :

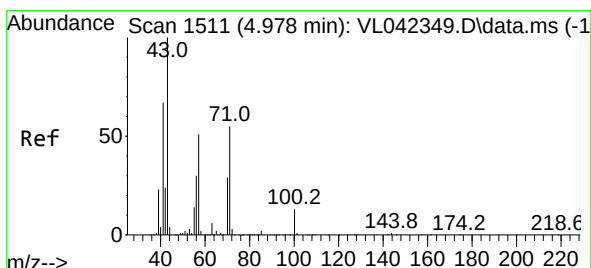
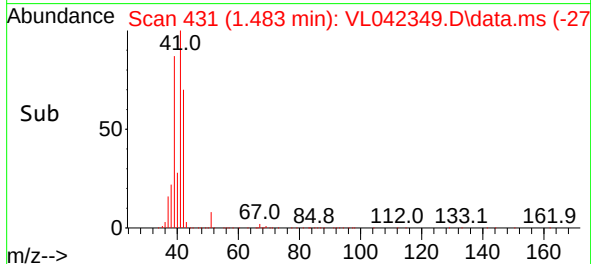
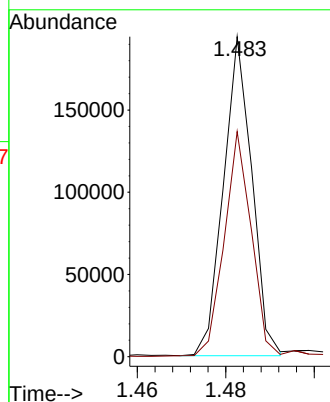
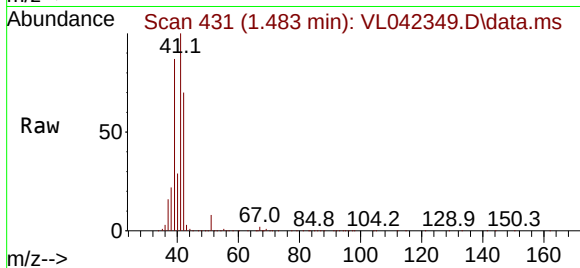
VSTDICCC010

Tgt Ion: 41 Resp: 86530

Ion Ratio Lower Upper

41 100

42 70.3 56.2 84.4



#10

Heptane

Concen: 9.138 ppbv

RT: 4.978 min Scan# 1511

Delta R.T. 0.000 min

Lab File: VL042349.D

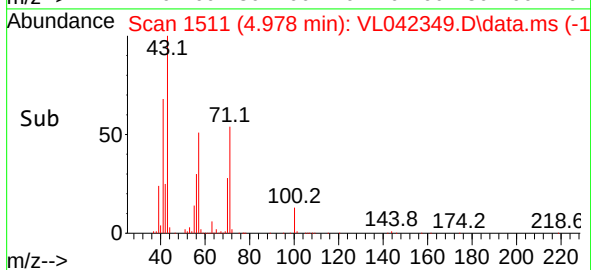
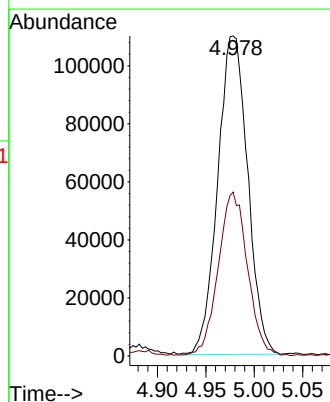
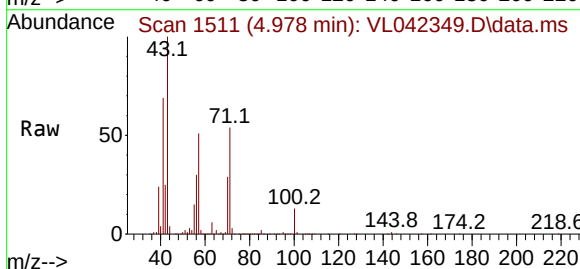
Acq: 17 Apr 2025 09:44

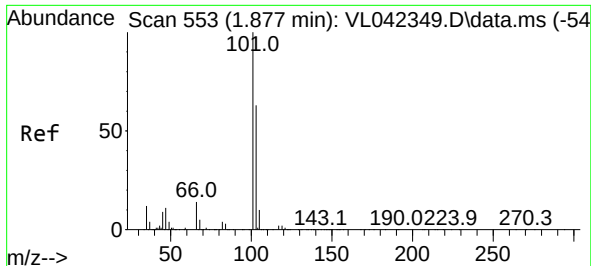
Tgt Ion: 43 Resp: 236341

Ion Ratio Lower Upper

43 100

57 49.9 39.9 59.9

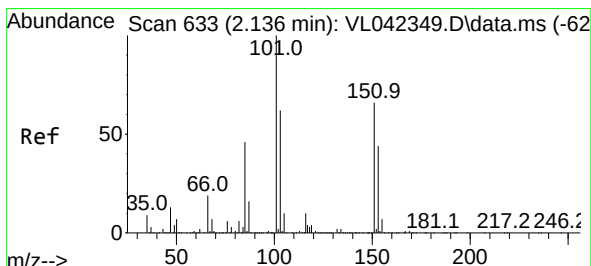
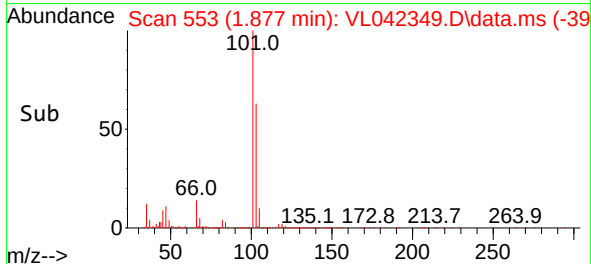
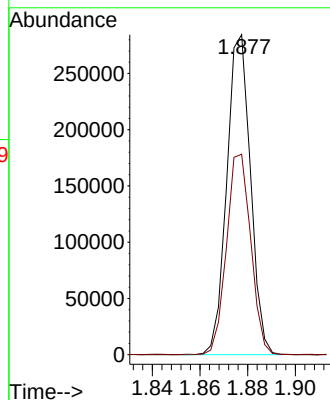
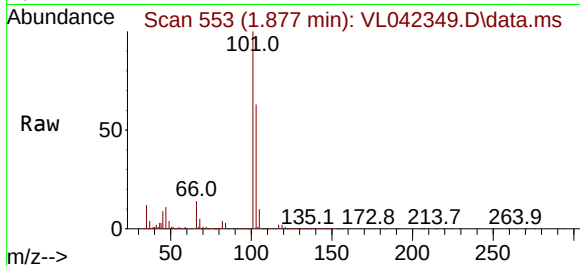




#11
 Trichlorofluoromethane
 Concen: 9.327 ppbv
 RT: 1.877 min Scan# 553
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44

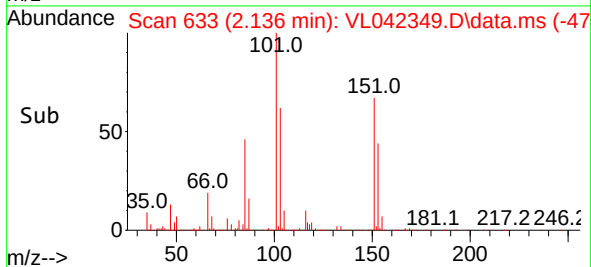
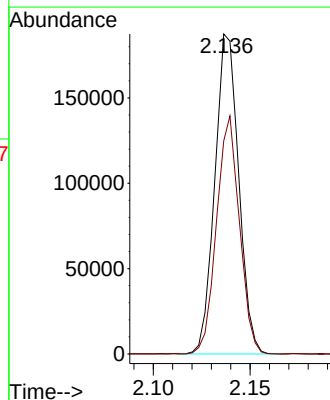
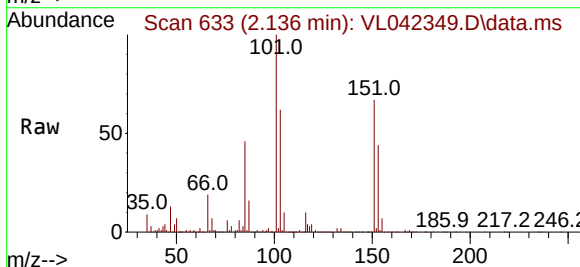
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

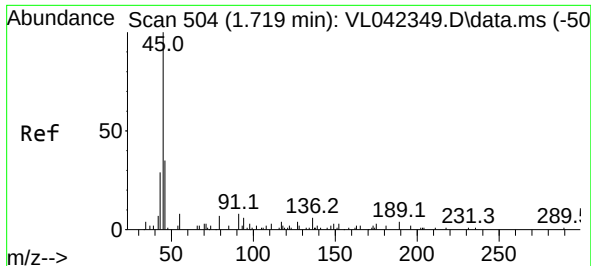
Tgt Ion:101 Resp: 196596
 Ion Ratio Lower Upper
 101 100
 103 62.6 50.1 75.1



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.323 ppbv
 RT: 2.136 min Scan# 633
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44

Tgt Ion:101 Resp: 160682
 Ion Ratio Lower Upper
 101 100
 151 71.3 57.0 85.6

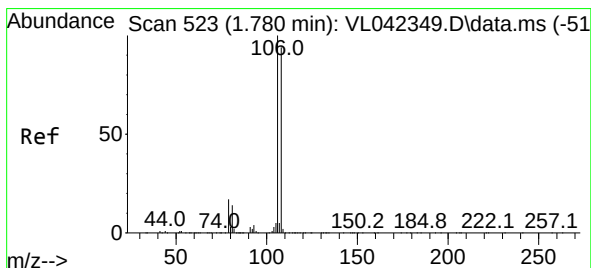
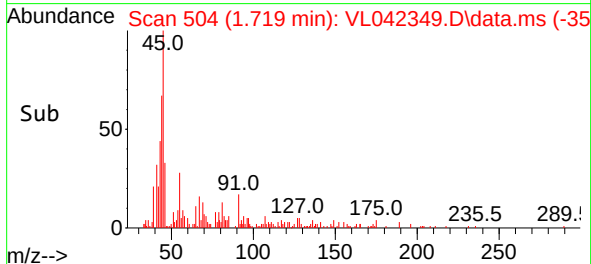
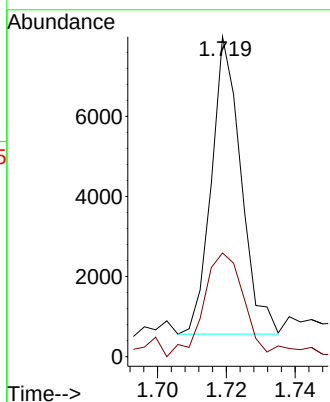
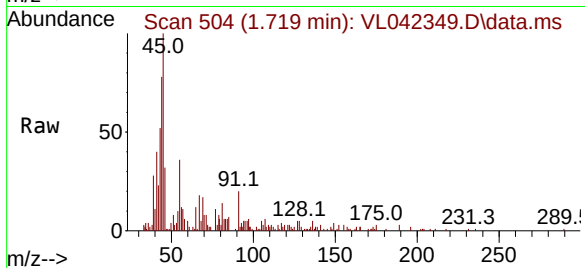




#13
Ethanol
Concen: 5.651 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

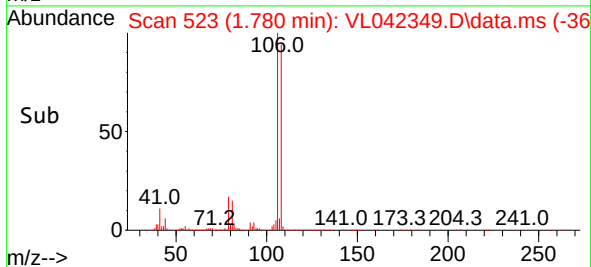
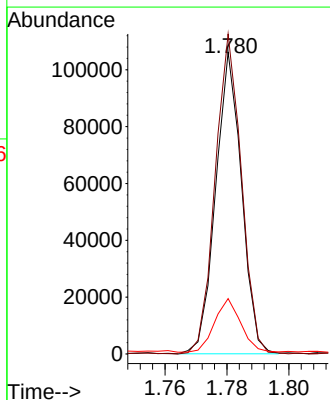
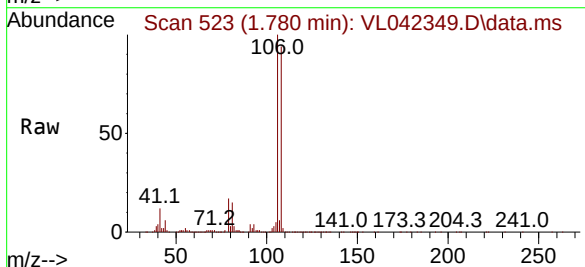
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

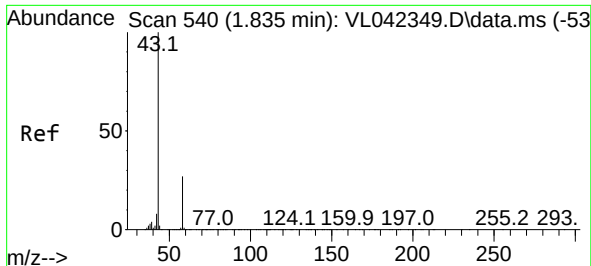
Tgt Ion: 45 Resp: 4439
Ion Ratio Lower Upper
45 100
46 54.8 21.9 87.7



#14
Bromoethene
Concen: 9.466 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 108 Resp: 61493
Ion Ratio Lower Upper
108 100
106 107.4 85.9 128.9
79 17.4 13.9 20.9

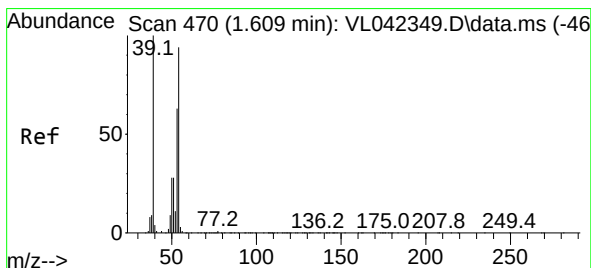
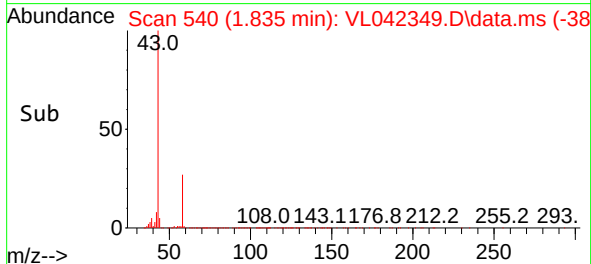
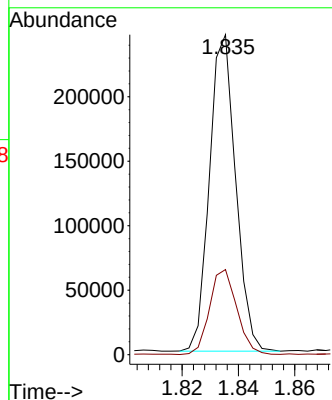
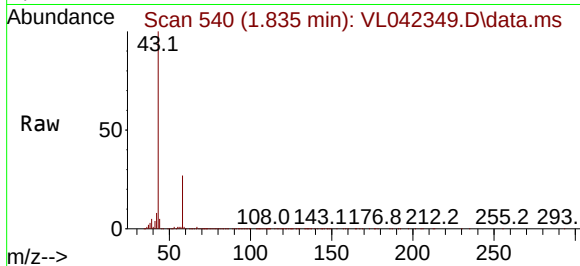




#15
Acetone
Concen: 7.717 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

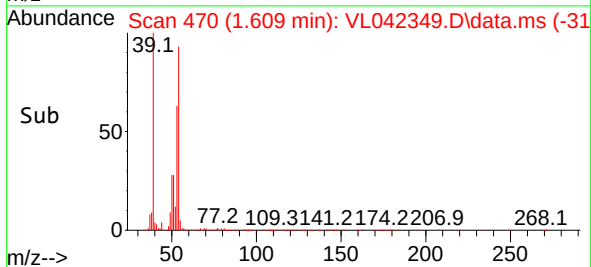
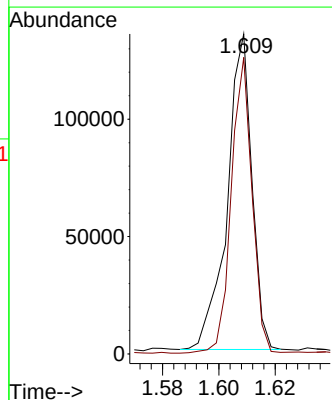
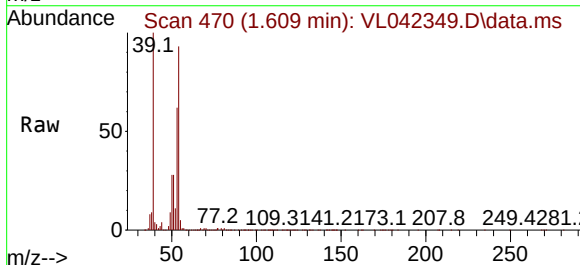
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

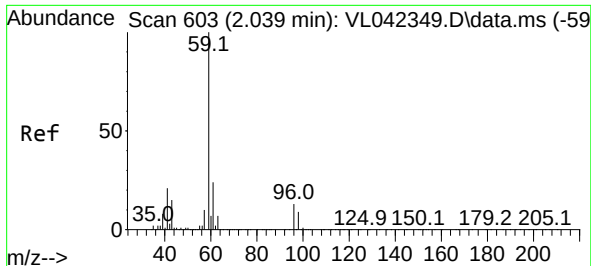
Tgt Ion: 43 Resp: 158490
Ion Ratio Lower Upper
43 100
58 28.0 22.4 33.6



#16
1,3-Butadiene
Concen: 8.470 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 39 Resp: 81688
Ion Ratio Lower Upper
39 100
54 81.1 64.9 97.3





#17

tert-Butyl alcohol

Concen: 8.891 ppbv

RT: 2.039 min Scan# 603

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

Instrument :

MSVOA_1

ClientSampleId :

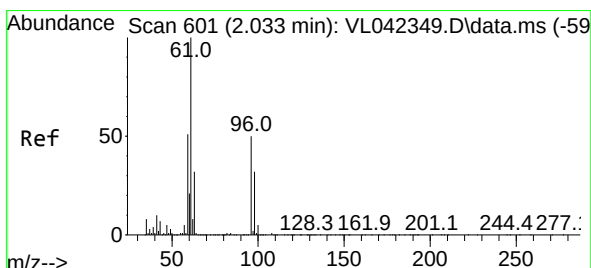
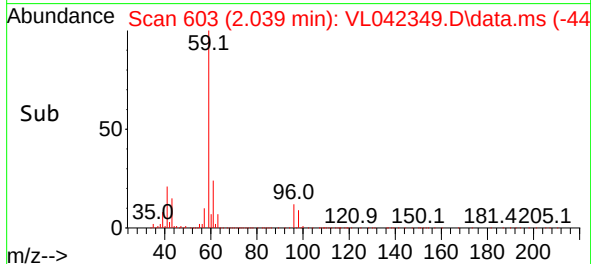
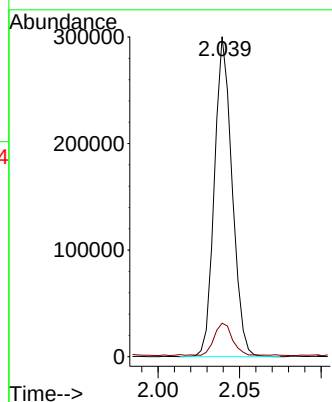
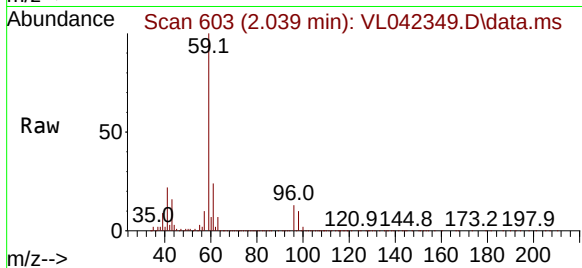
VSTDICCC010

Tgt Ion: 59 Resp: 226280

Ion Ratio Lower Upper

59 100

57 10.9 8.7 13.1



#18

1,1-Dichloroethene

Concen: 8.833 ppbv

RT: 2.033 min Scan# 601

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

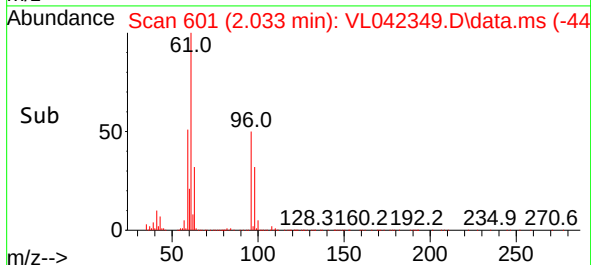
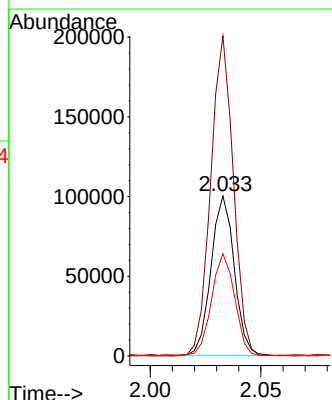
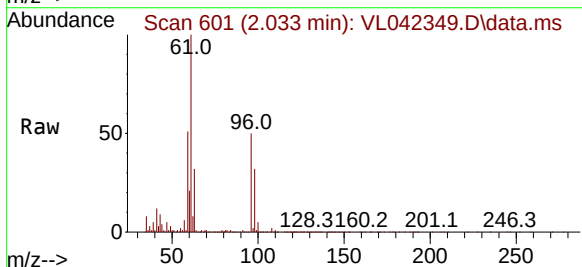
Tgt Ion: 96 Resp: 73186

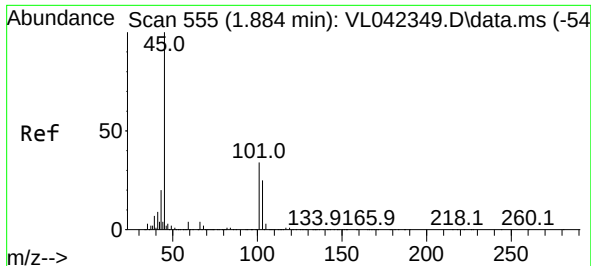
Ion Ratio Lower Upper

96 100

61 200.2 160.2 240.2

98 63.7 51.0 76.4

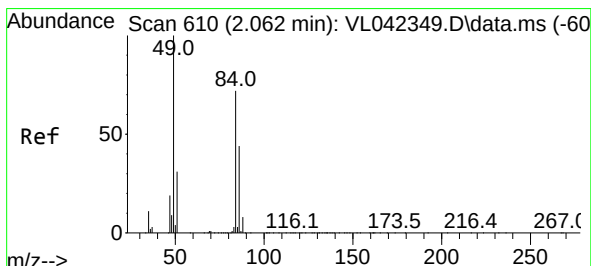
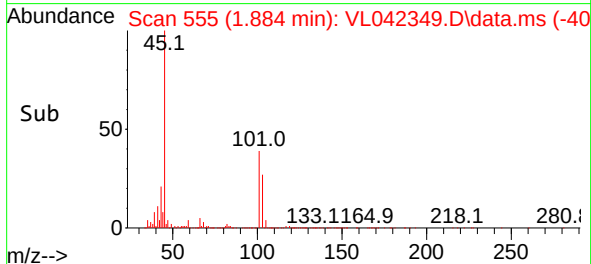
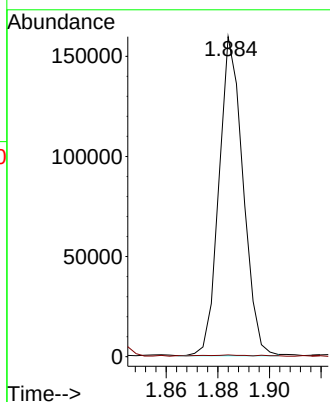
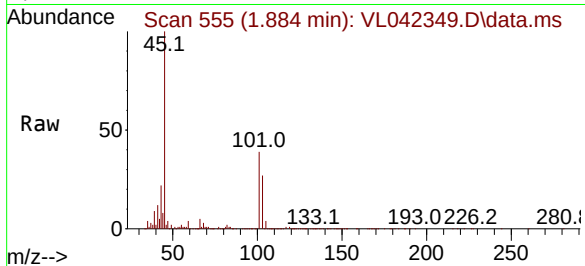




#19
Isopropyl Alcohol
Concen: 9.031 ppbv
RT: 1.884 min Scan# 511
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

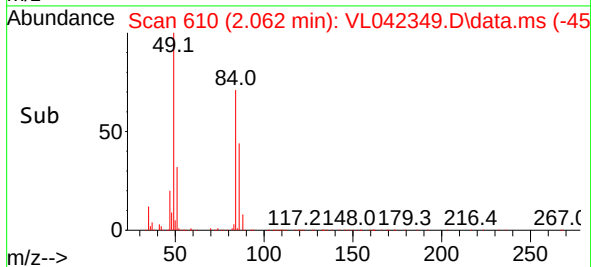
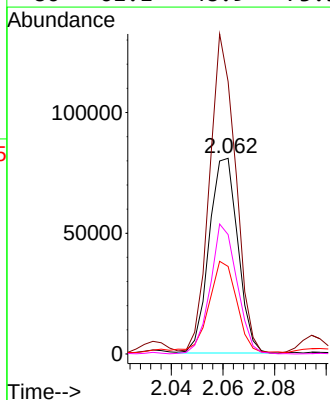
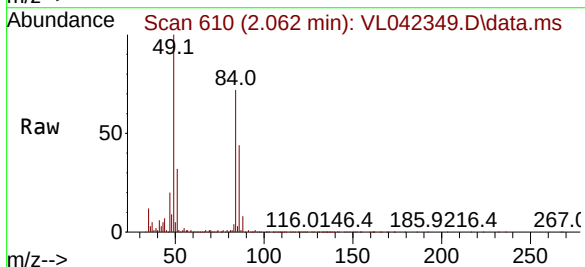
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

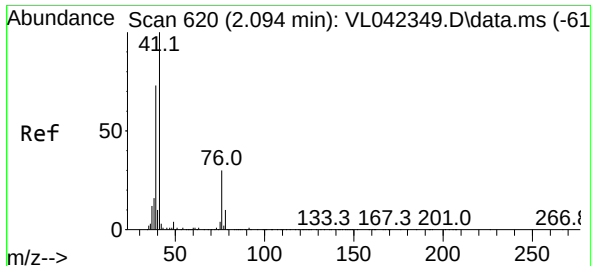
Tgt Ion: 45 Resp: 103029
Ion Ratio Lower Upper
45 100
58 43.1 34.5 51.7



#20
Methylene Chloride
Concen: 7.760 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 84 Resp: 62414
Ion Ratio Lower Upper
84 100
49 139.5 111.6 167.4
51 43.9 35.1 52.7
86 61.1 48.9 73.3

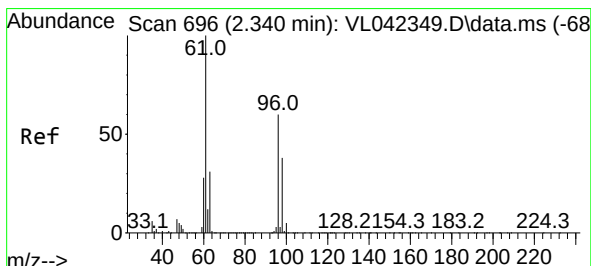
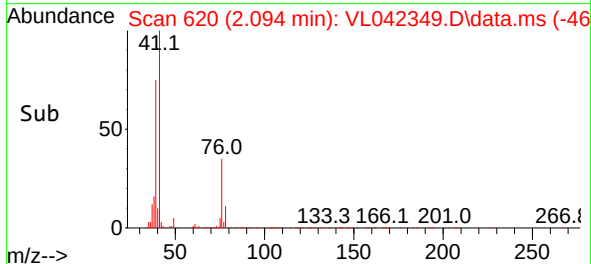
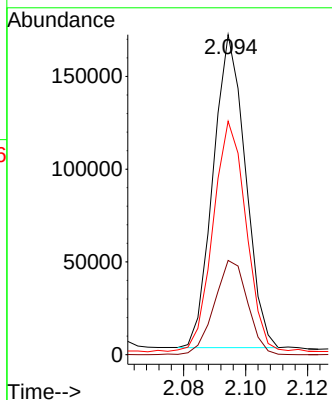
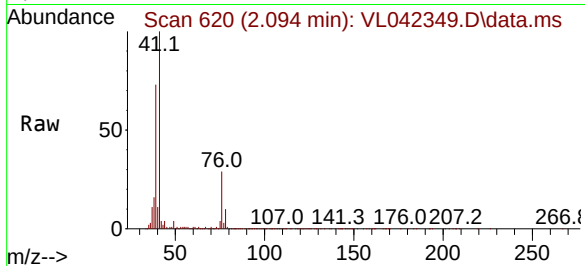




#21
 Allyl Chloride
 Concen: 8.611 ppbv
 RT: 2.094 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44

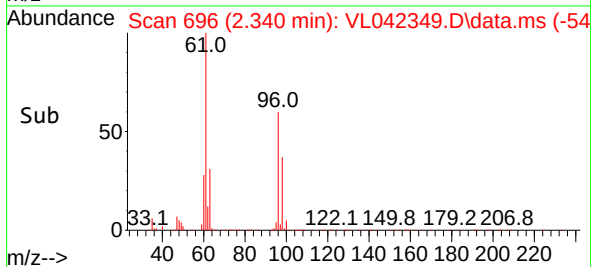
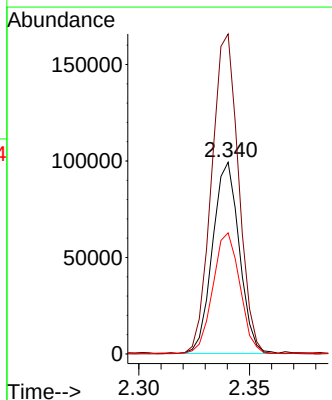
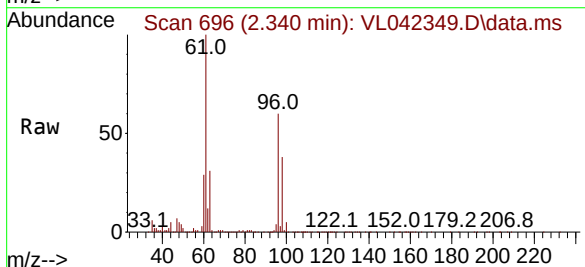
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

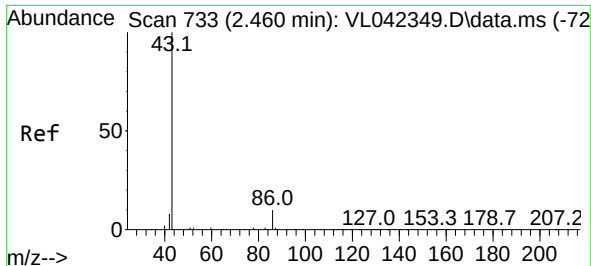
Tgt Ion: 41 Resp: 122115
 Ion Ratio Lower Upper
 41 100
 76 31.0 24.8 37.2
 39 75.7 60.6 90.8



#22
 trans-1,2-Dichloroethene
 Concen: 9.084 ppbv
 RT: 2.340 min Scan# 696
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44

Tgt Ion: 96 Resp: 83278
 Ion Ratio Lower Upper
 96 100
 61 167.1 133.7 200.5
 98 62.9 50.3 75.5

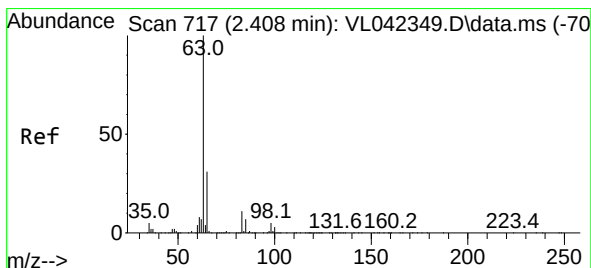
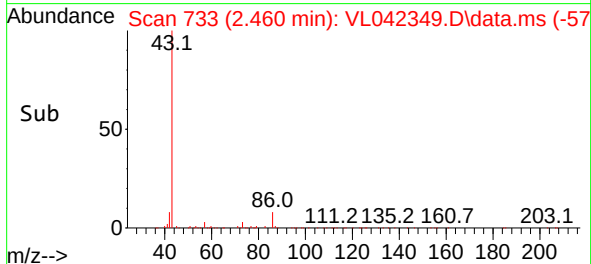
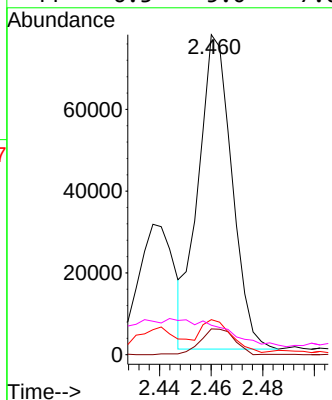
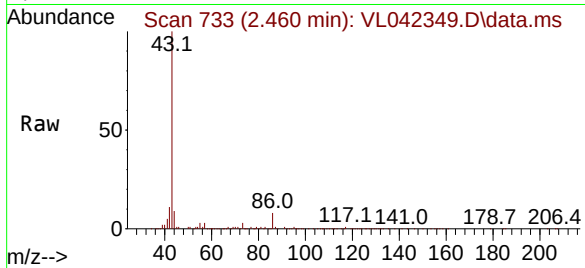




#23
 Vinyl Acetate
 Concen: 8.378 ppbv
 RT: 2.460 min Scan# 717
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44

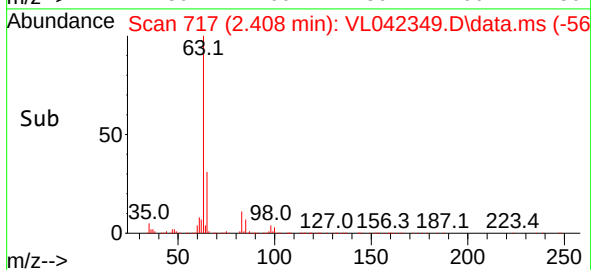
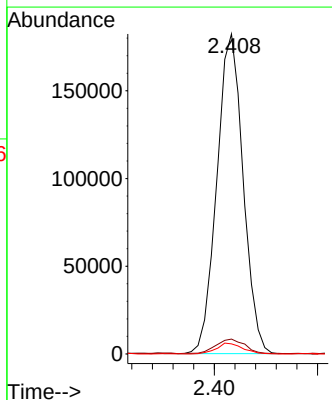
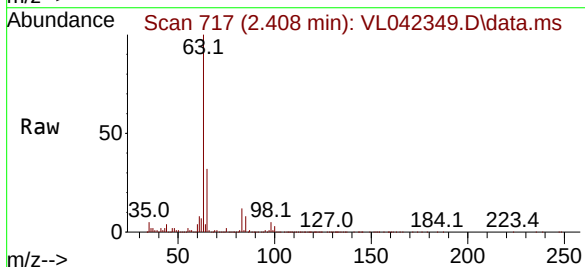
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

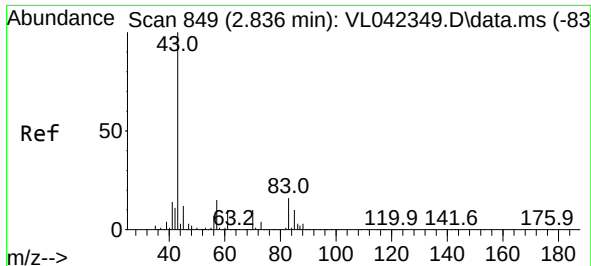
Tgt Ion:	43	Resp:	69649
Ion	Ratio	Lower	Upper
43	100		
86	8.1	6.5	9.7
42	9.8	7.8	11.8
44	6.3	5.0	7.6



#24
 1,1-Dichloroethane
 Concen: 9.251 ppbv
 RT: 2.408 min Scan# 717
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44

Tgt Ion:	63	Resp:	161102
Ion	Ratio	Lower	Upper
63	100		
98	4.5	2.3	6.8
100	3.2	1.6	4.8



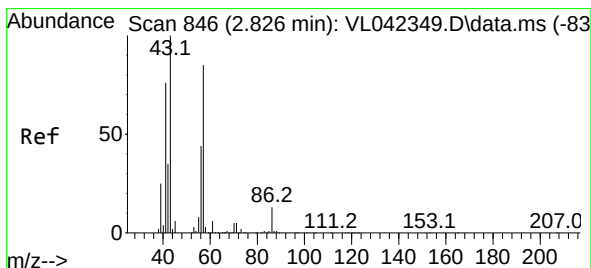
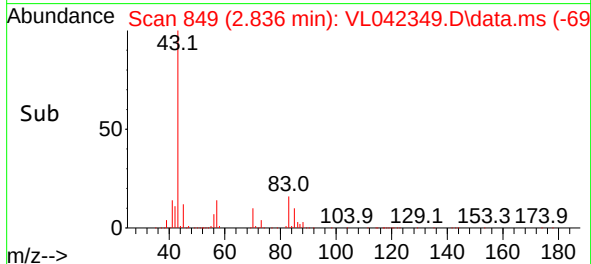
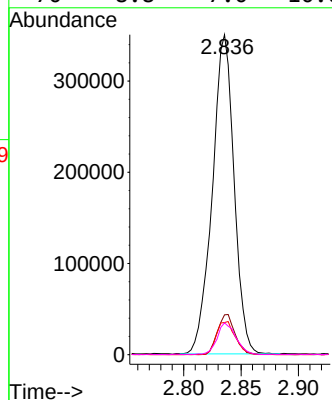
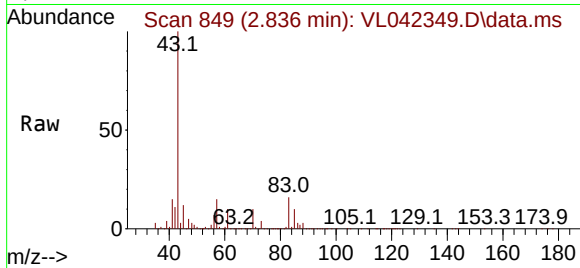


#25
Ethyl Acetate
Concen: 9.110 ppbv
RT: 2.836 min Scan# 849
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

Tgt Ion: 43 Resp: 461315

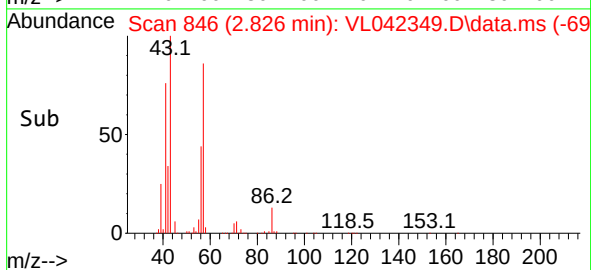
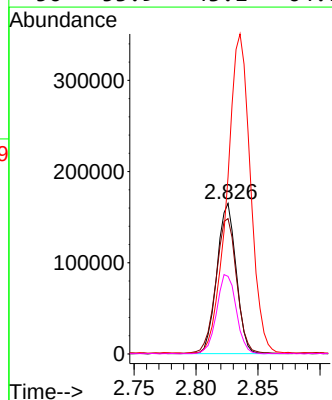
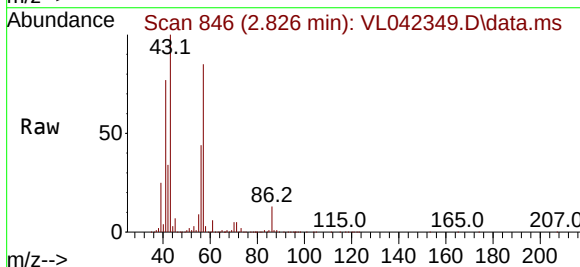
Ion	Ratio	Lower	Upper
43	100		
45	10.4	8.3	12.5
61	9.1	7.3	10.9
70	8.8	7.0	10.6

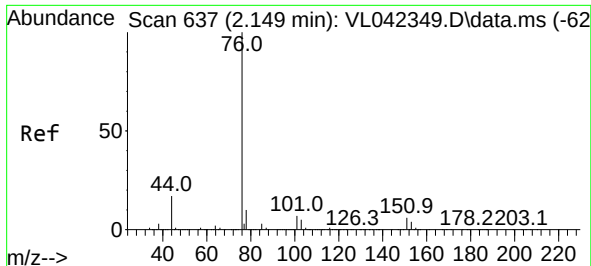


#26
Hexane
Concen: 8.720 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 57 Resp: 178691

Ion	Ratio	Lower	Upper
57	100		
41	97.4	77.9	116.9
43	260.5	208.4	312.6
56	53.9	43.1	64.7





#27

Carbon Disulfide

Concen: 9.539 ppbv

RT: 2.149 min Scan# 61

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

Instrument :

MSVOA_1

ClientSampleId :

VSTDICCC010

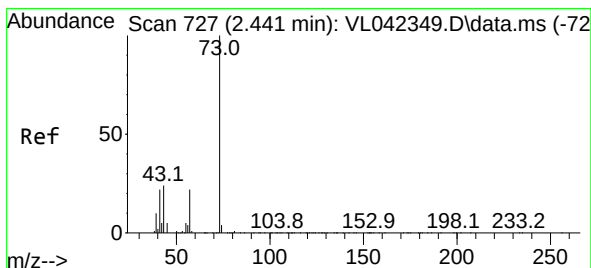
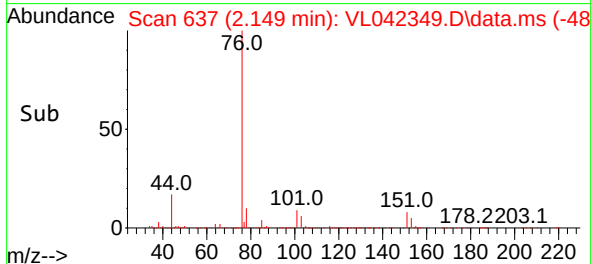
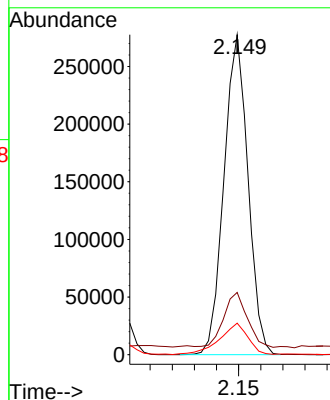
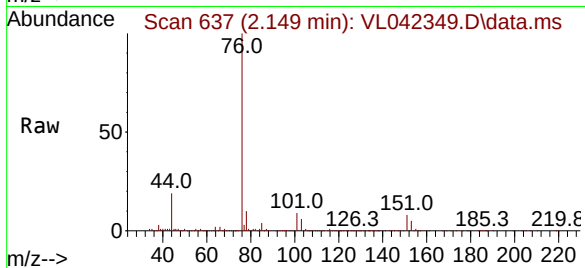
Tgt Ion: 76 Resp: 209297

Ion Ratio Lower Upper

76 100

44 19.4 15.5 23.3

78 11.6 9.3 13.9



#28

Methyl tert-Butyl Ether

Concen: 8.783 ppbv

RT: 2.441 min Scan# 727

Delta R.T. 0.000 min

Lab File: VL042349.D

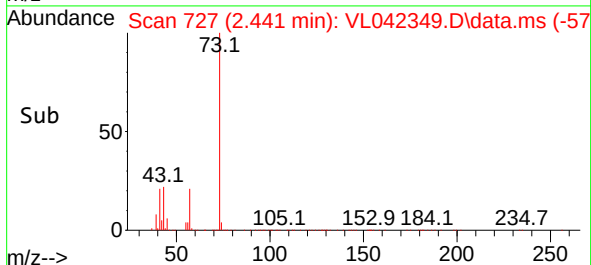
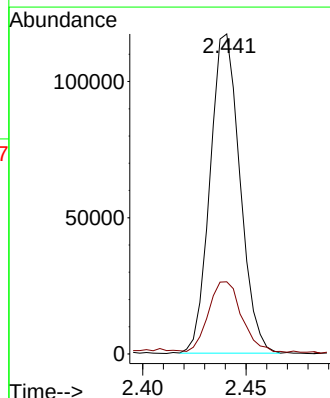
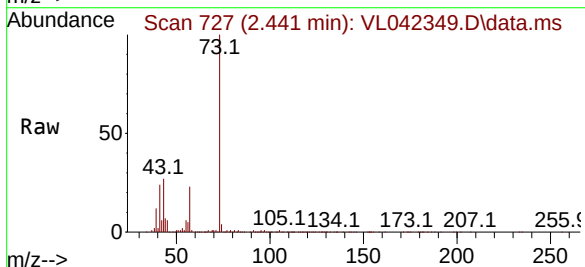
Acq: 17 Apr 2025 09:44

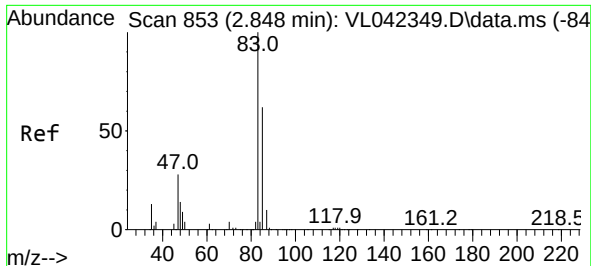
Tgt Ion: 73 Resp: 117924

Ion Ratio Lower Upper

73 100

57 26.6 21.3 31.9





#29

Chloroform

Concen: 9.290 ppbv

RT: 2.848 min Scan# 853

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

Instrument :

MSVOA_L

ClientSampleId :

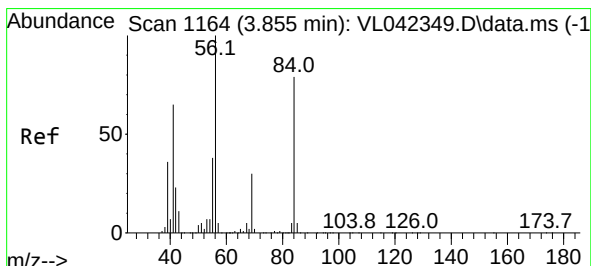
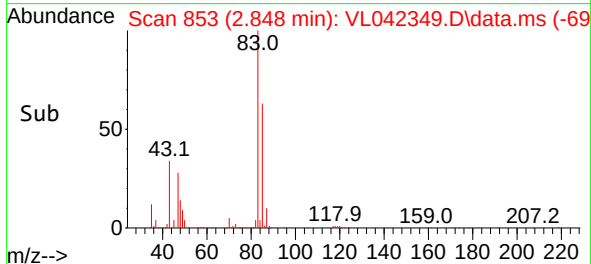
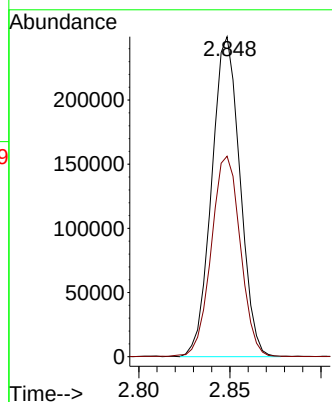
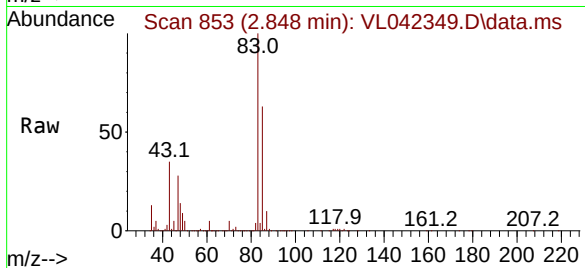
VSTDICCC010

Tgt Ion: 83 Resp: 269088

Ion Ratio Lower Upper

83 100

85 62.5 50.0 75.0



#30

Cyclohexane

Concen: 9.517 ppbv

RT: 3.855 min Scan# 1164

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

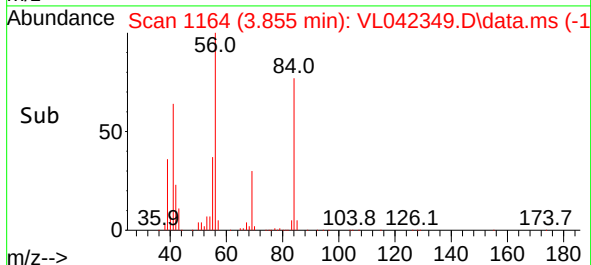
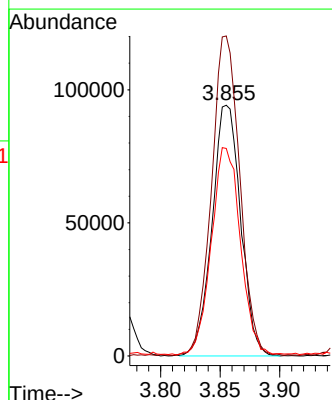
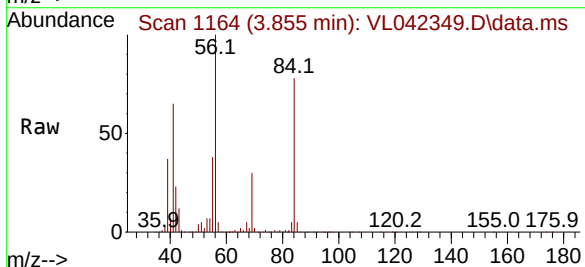
Tgt Ion: 84 Resp: 157035

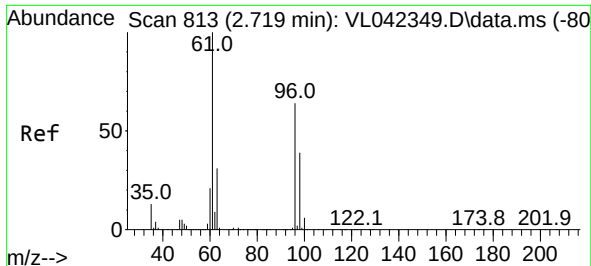
Ion Ratio Lower Upper

84 100

56 126.2 101.0 151.4

41 84.2 67.4 101.0

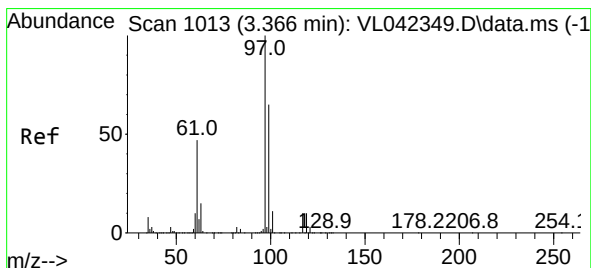
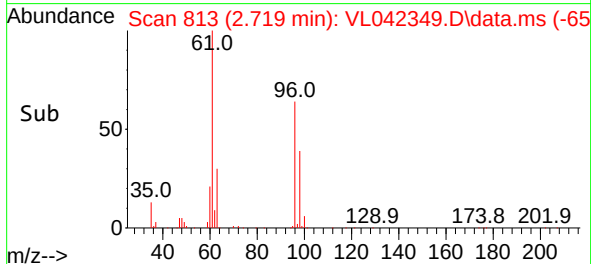
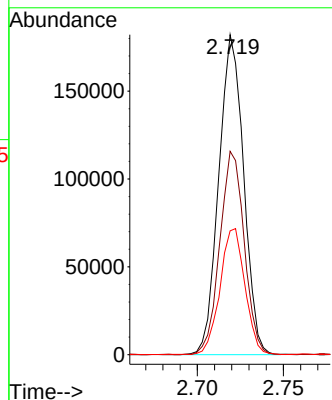
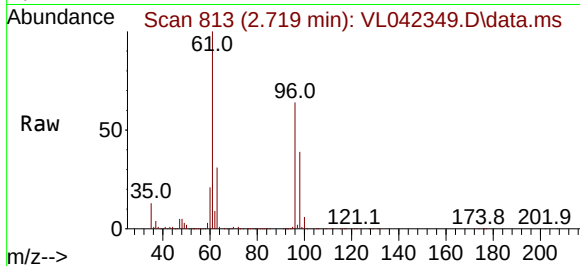




#31
 cis-1,2-Dichloroethene
 Concen: 9.397 ppbv
 RT: 2.719 min Scan# 813
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44

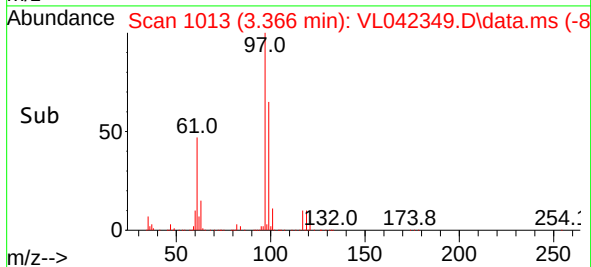
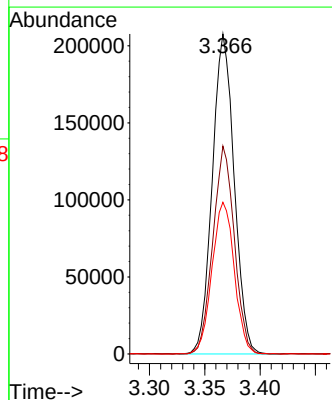
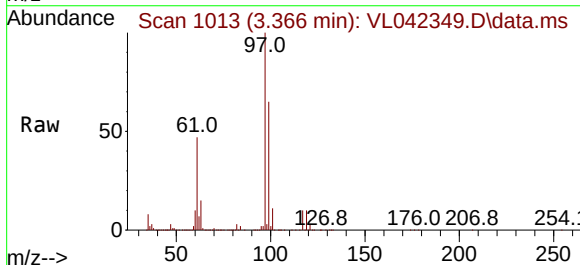
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

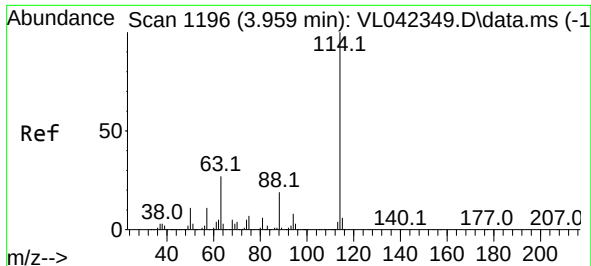
Tgt Ion: 61 Resp: 183082
 Ion Ratio Lower Upper
 61 100
 96 63.5 50.8 76.2
 98 38.6 30.9 46.3



#32
 1,1,1-Trichloroethane
 Concen: 9.187 ppbv
 RT: 3.366 min Scan# 1013
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44

Tgt Ion: 97 Resp: 285336
 Ion Ratio Lower Upper
 97 100
 99 63.7 51.0 76.4
 61 48.5 38.8 58.2

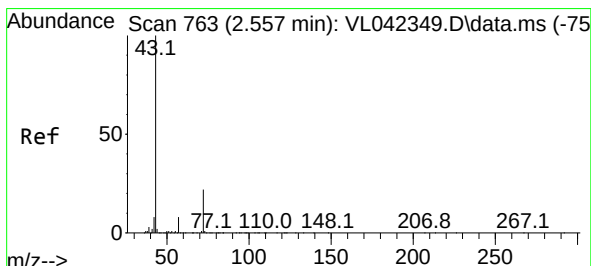
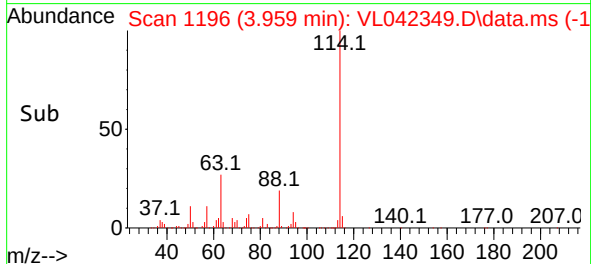
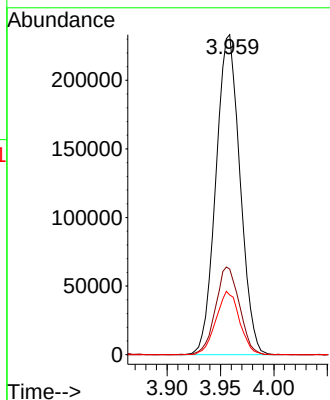
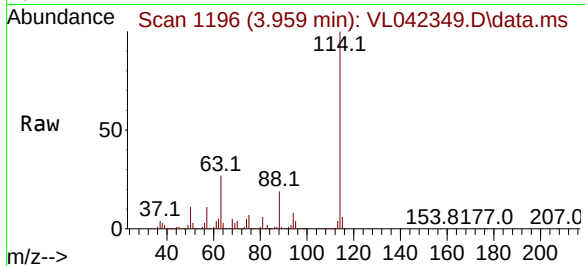




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

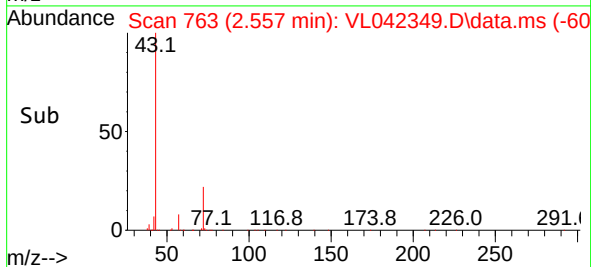
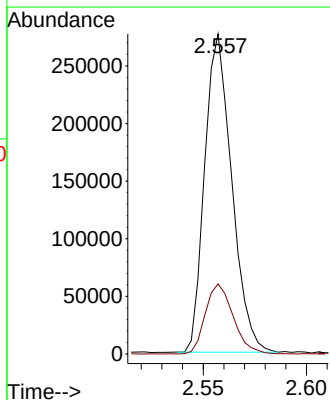
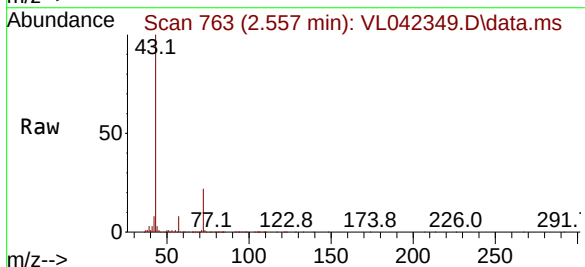
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

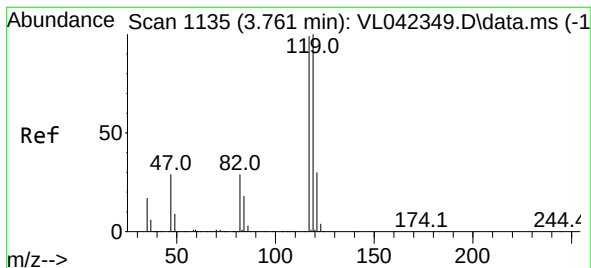
Tgt Ion:114 Resp: 366544
Ion Ratio Lower Upper
114 100
63 27.2 21.8 32.6
88 19.4 15.5 23.3



#34
2-Butanone
Concen: 8.683 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 43 Resp: 251704
Ion Ratio Lower Upper
43 100
72 22.7 18.2 27.2





#35

Carbon Tetrachloride

Concen: 8.513 ppbv

RT: 3.761 min Scan# 1135

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

Instrument :

MSVOA_1

ClientSampleId :

VSTDICCC010

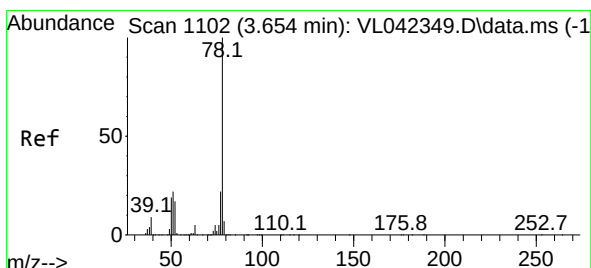
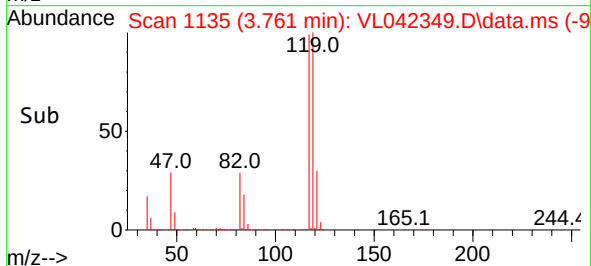
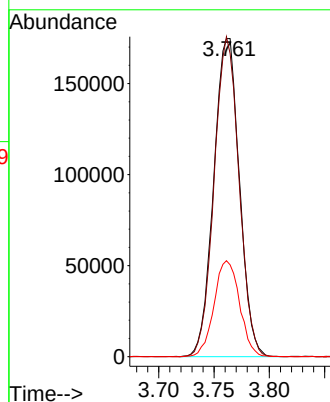
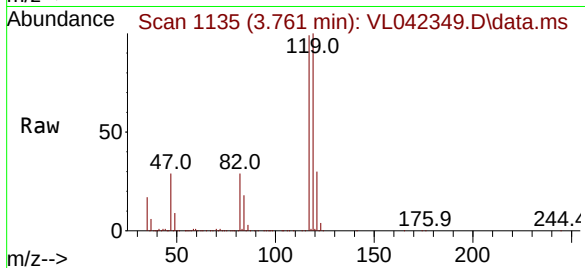
Tgt Ion:117 Resp: 282402

Ion Ratio Lower Upper

117 100

119 100.6 80.5 120.7

121 30.2 24.2 36.2



#36

Benzene

Concen: 9.292 ppbv

RT: 3.654 min Scan# 1102

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

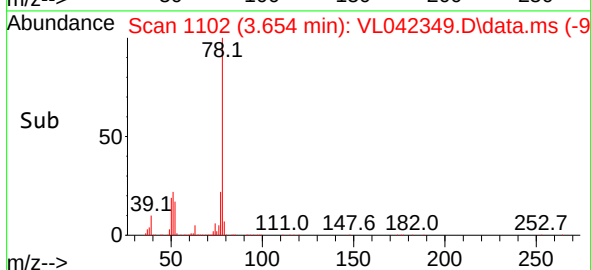
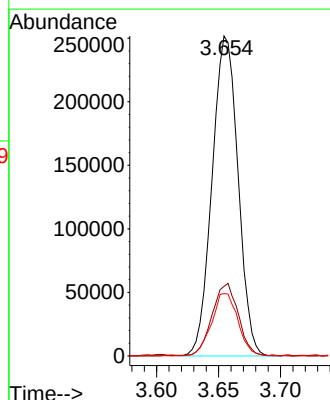
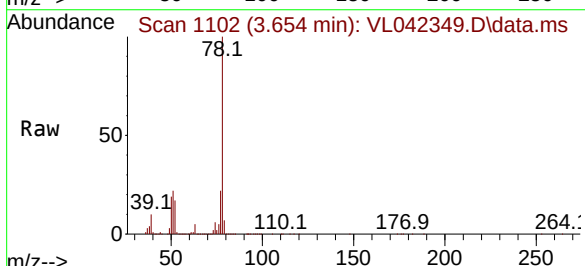
Tgt Ion: 78 Resp: 367355

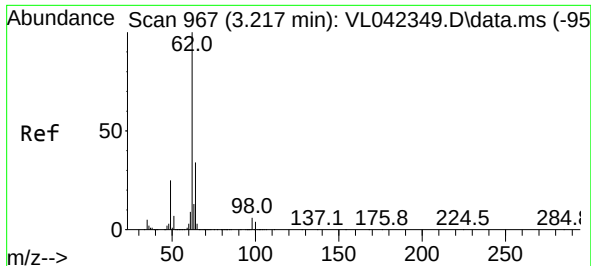
Ion Ratio Lower Upper

78 100

77 21.7 17.4 26.0

50 19.4 15.5 23.3

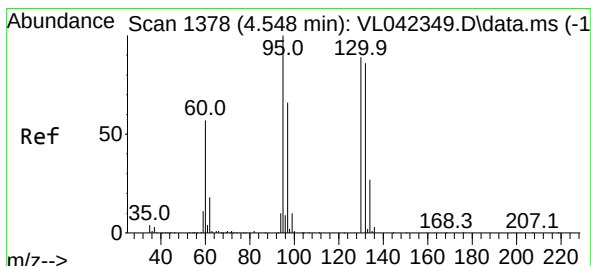
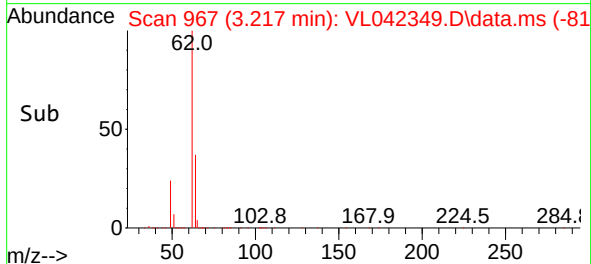
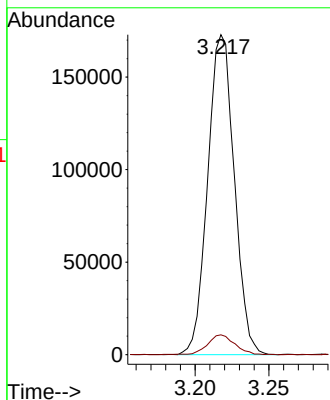
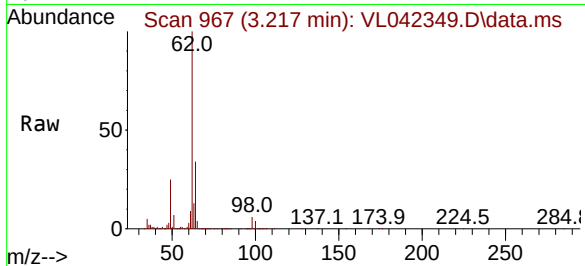




#37
1,2-Dichloroethane
Concen: 9.145 ppbv
RT: 3.217 min Scan# 967
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

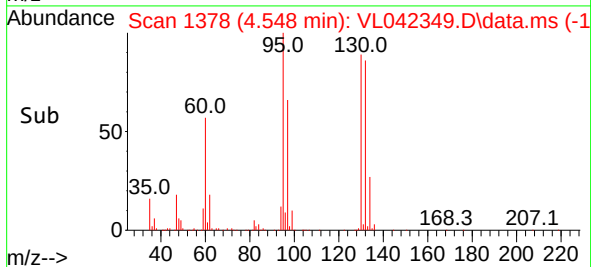
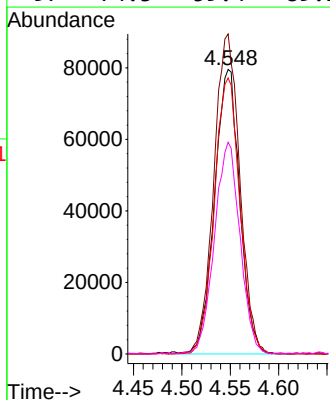
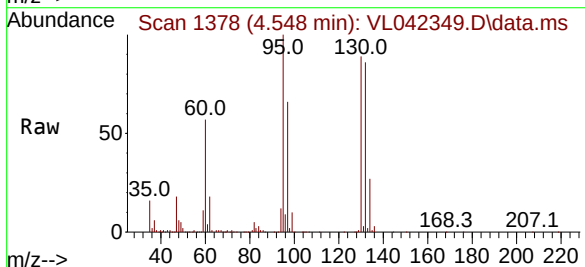
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

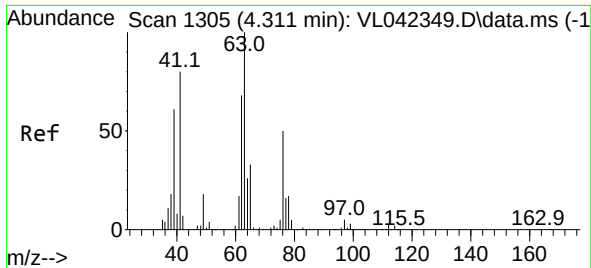
Tgt Ion: 62 Resp: 216999
Ion Ratio Lower Upper
62 100
98 6.4 5.1 7.7



#38
Trichloroethene
Concen: 8.352 ppbv
RT: 4.548 min Scan# 1378
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:130 Resp: 144767
Ion Ratio Lower Upper
130 100
95 112.2 89.8 134.6
132 97.1 77.7 116.5
97 74.3 59.4 89.2





#39

1,2-Dichloropropane

Concen: 9.197 ppbv

RT: 4.311 min Scan# 1305

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

Instrument :

MSVOA_1

ClientSampleId :

VSTDICCC010

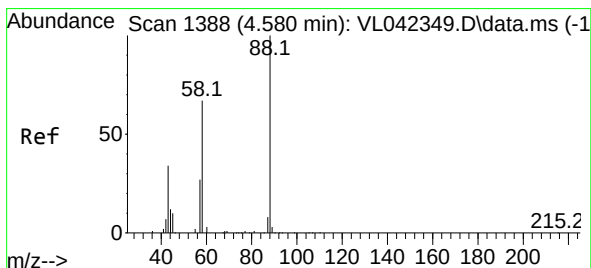
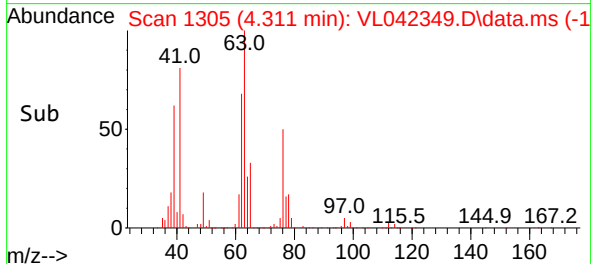
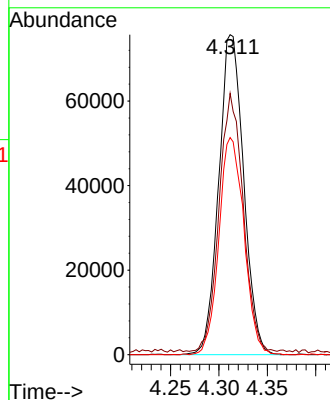
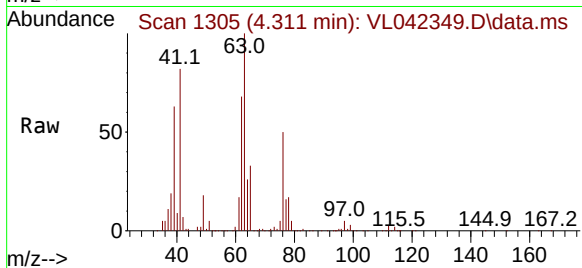
Tgt Ion: 63 Resp: 135605

Ion Ratio Lower Upper

63 100

41 80.2 64.2 96.2

62 67.9 54.3 81.5



#40

1,4-Dioxane

Concen: 8.348 ppbv

RT: 4.580 min Scan# 1388

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

Tgt Ion: 88 Resp: 66662

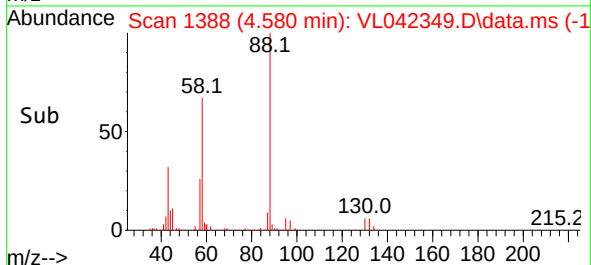
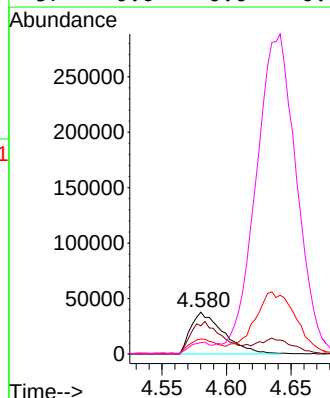
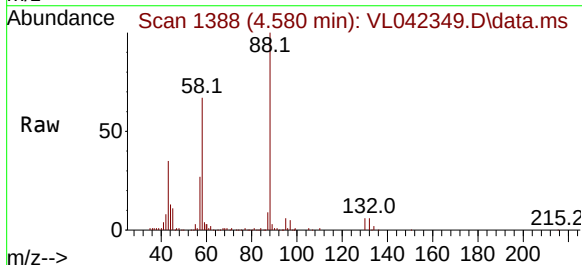
Ion Ratio Lower Upper

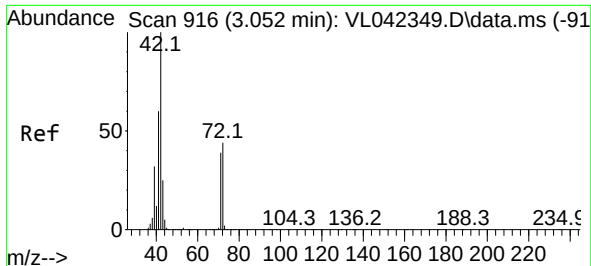
88 100

58 76.7 61.4 92.0

43 29.0 23.2 34.8

57 0.0 0.0 0.0

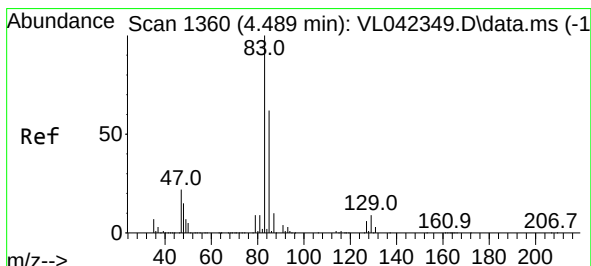
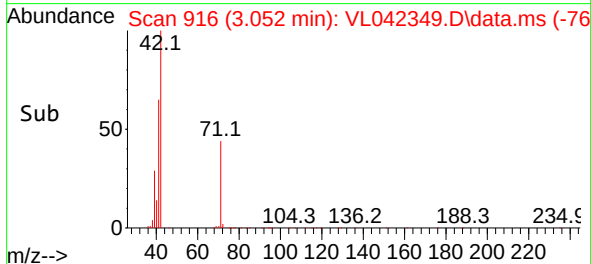
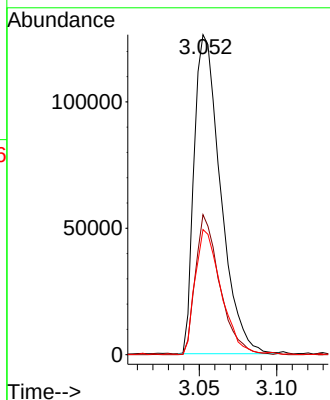
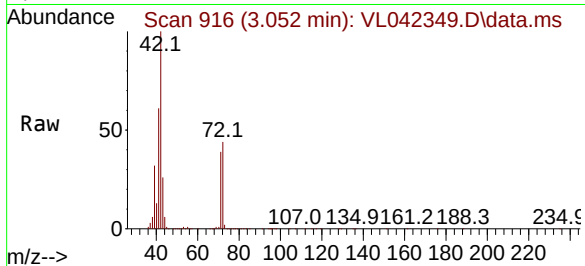




#41
Tetrahydrofuran
Concen: 8.950 ppbv
RT: 3.052 min Scan# 916
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

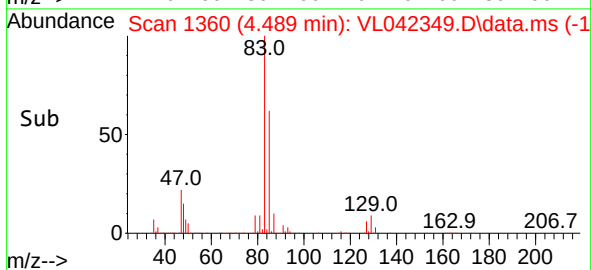
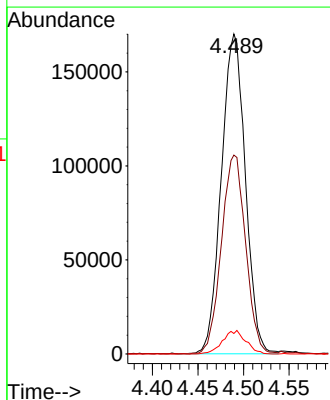
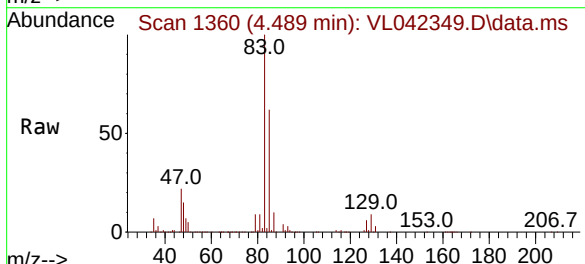
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

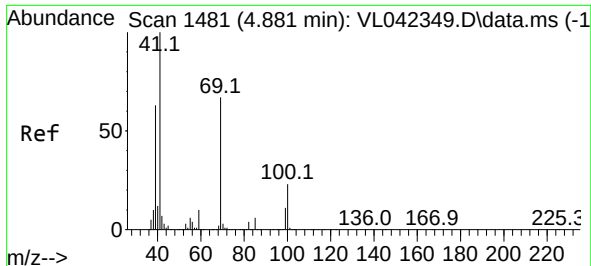
Tgt Ion: 42 Resp: 149905
Ion Ratio Lower Upper
42 100
72 40.4 32.3 48.5
71 39.3 31.4 47.2



#42
Bromodichloromethane
Concen: 9.456 ppbv
RT: 4.489 min Scan# 1360
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 83 Resp: 312268
Ion Ratio Lower Upper
83 100
85 62.1 49.7 74.5
127 6.4 5.1 7.7

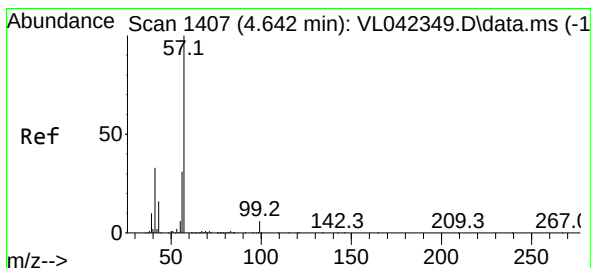
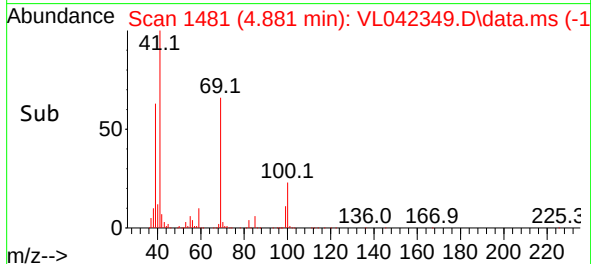
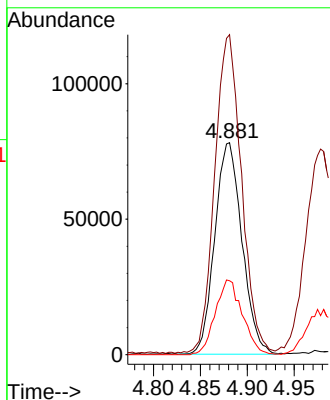
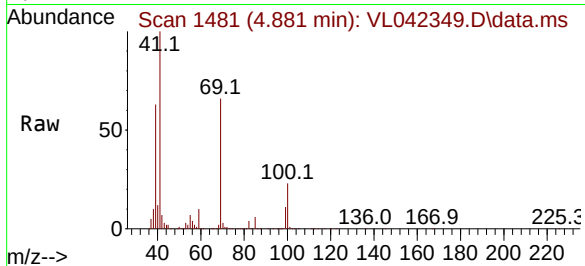




#43
Methyl Methacrylate
Concen: 8.876 ppbv
RT: 4.881 min Scan# 1481
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

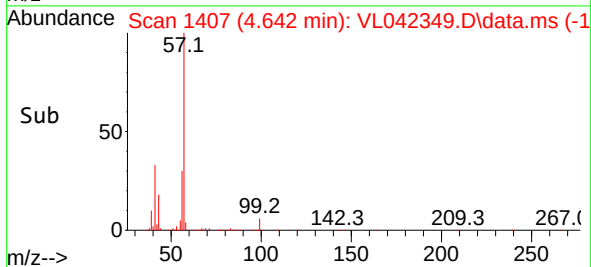
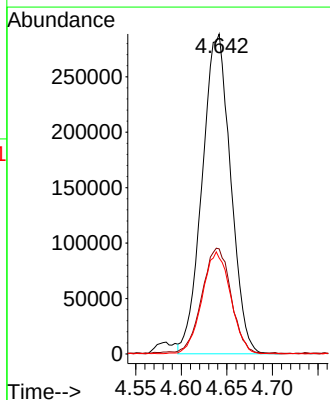
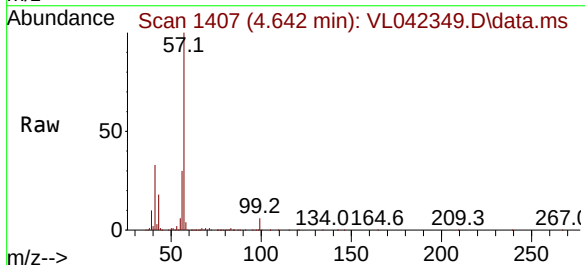
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

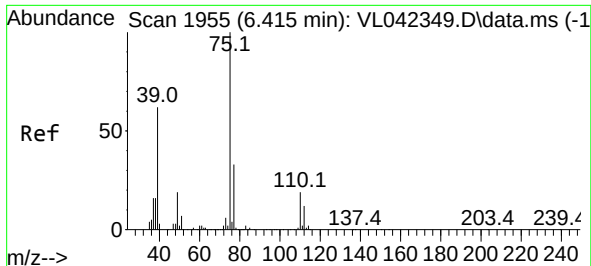
Tgt Ion: 69 Resp: 157501
Ion Ratio Lower Upper
69 100
41 148.2 118.6 177.8
100 35.2 28.2 42.2



#44
2,2,4-Trimethylpentane
Concen: 9.157 ppbv
RT: 4.642 min Scan# 1407
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 57 Resp: 626085
Ion Ratio Lower Upper
57 100
41 34.0 27.2 40.8
56 32.1 25.7 38.5





#45

t-1,3-Dichloropropene

Concen: 9.233 ppbv

RT: 6.415 min Scan# 1955

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

Instrument :

MSVOA_L

ClientSampleId :

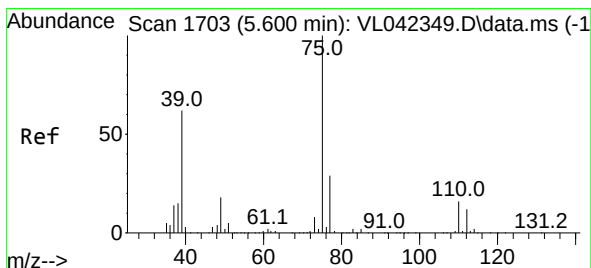
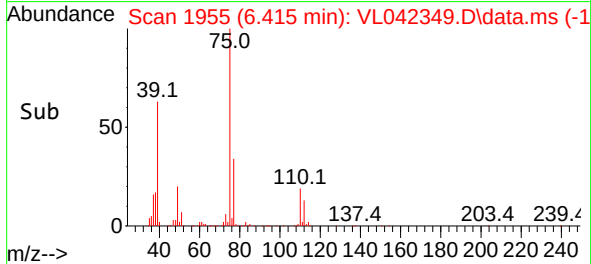
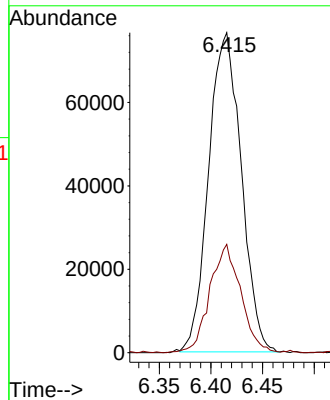
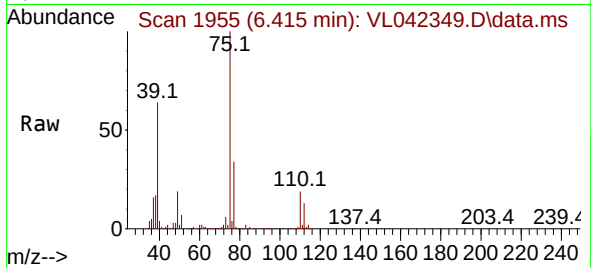
VSTDICCC010

Tgt Ion: 75 Resp: 168223

Ion Ratio Lower Upper

75 100

77 33.8 27.0 40.6



#46

cis-1,3-Dichloropropene

Concen: 9.377 ppbv

RT: 5.600 min Scan# 1703

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

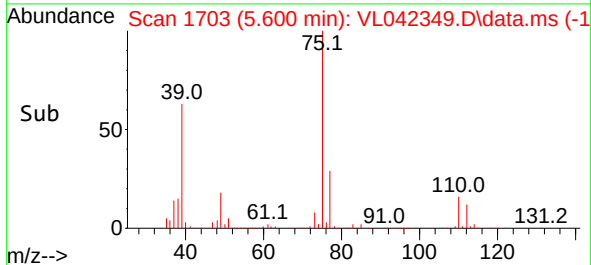
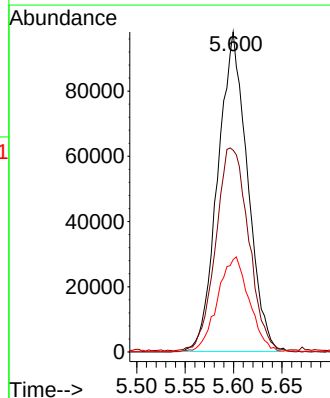
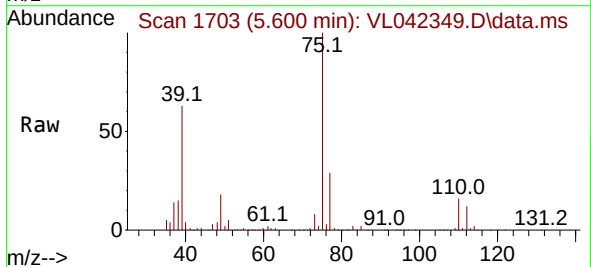
Tgt Ion: 75 Resp: 208811

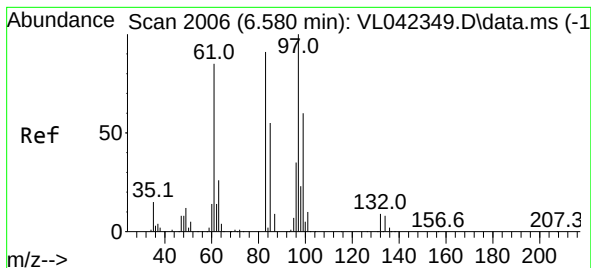
Ion Ratio Lower Upper

75 100

39 62.5 50.0 75.0

77 28.8 23.0 34.6





#47

1,1,2-Trichloroethane

Concen: 9.181 ppbv

RT: 6.580 min Scan# 2006

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 97 Resp: 137898

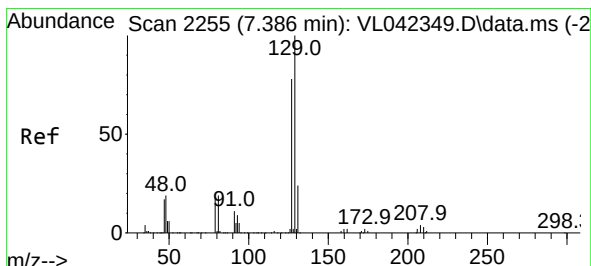
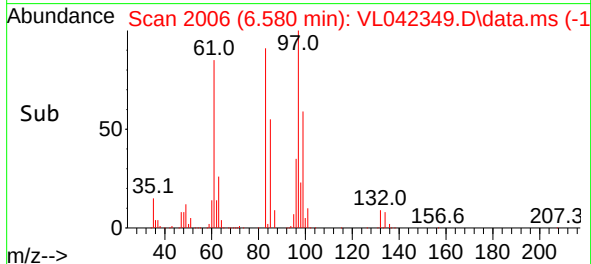
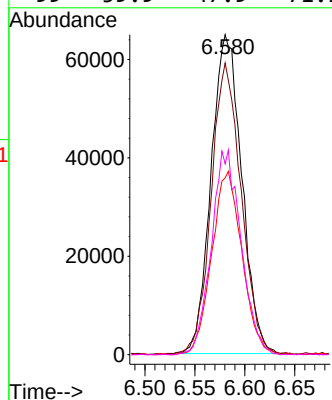
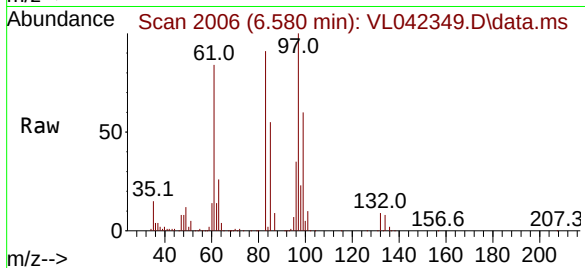
Ion Ratio Lower Upper

97 100

83 91.0 72.8 109.2

85 55.3 44.2 66.4

99 59.9 47.9 71.9



#48

Dibromochloromethane

Concen: 9.388 ppbv

RT: 7.386 min Scan# 2255

Delta R.T. 0.000 min

Lab File: VL042349.D

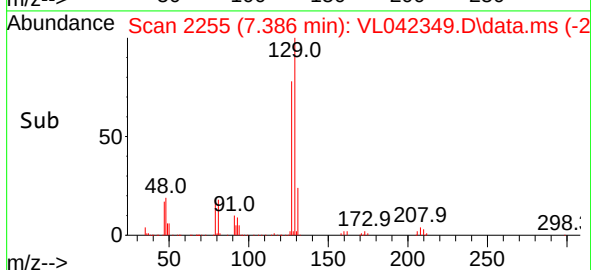
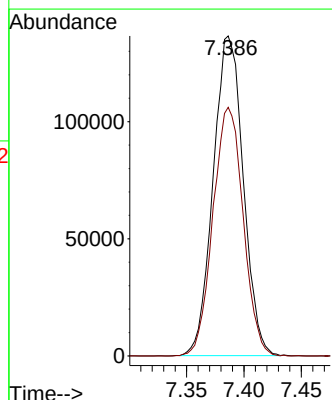
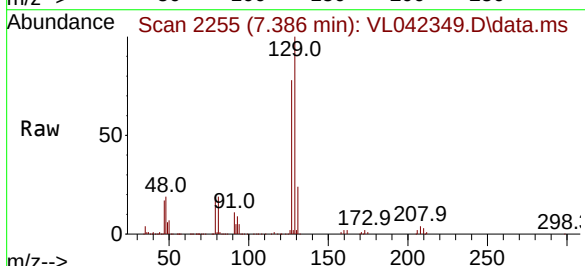
Acq: 17 Apr 2025 09:44

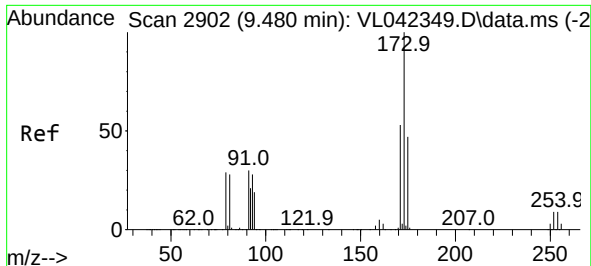
Tgt Ion: 129 Resp: 248954

Ion Ratio Lower Upper

129 100

127 78.2 39.1 117.3





#49

Bromoform

Concen: 9.734 ppbv

RT: 9.480 min Scan# 2902

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

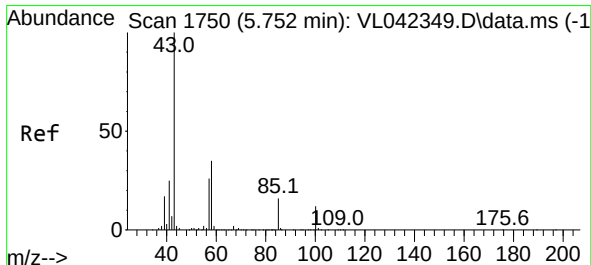
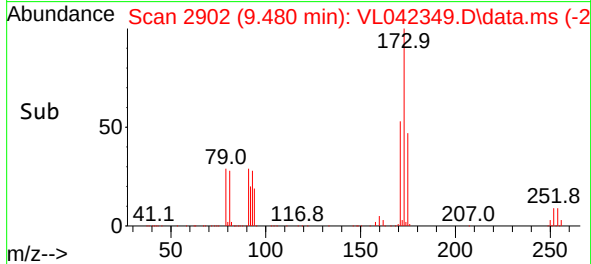
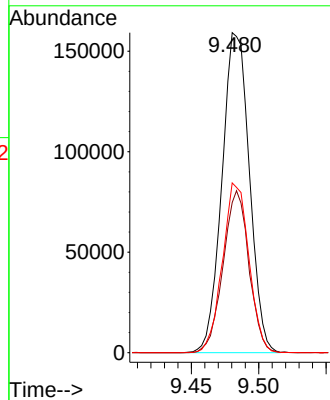
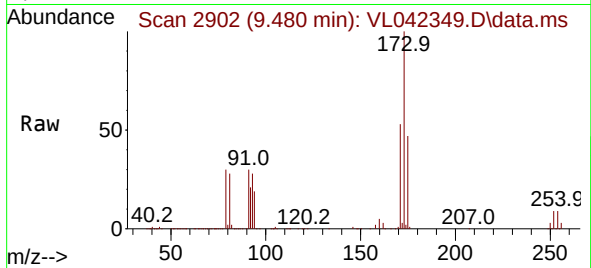
Tgt Ion:173 Resp: 225706

Ion Ratio Lower Upper

173 100

175 47.7 38.2 57.2

171 51.1 40.9 61.3



#50

4-Methyl-2-Pentanone

Concen: 8.215 ppbv

RT: 5.752 min Scan# 1750

Delta R.T. 0.000 min

Lab File: VL042349.D

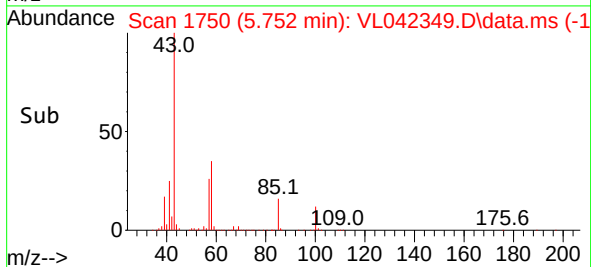
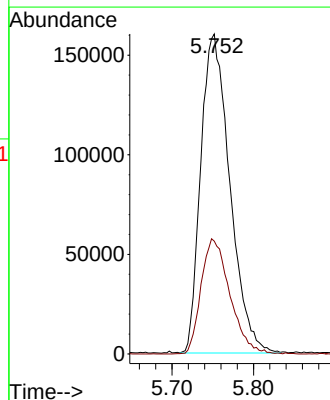
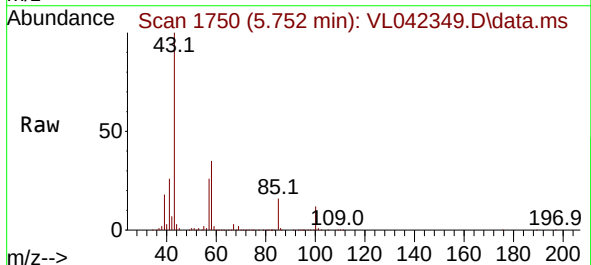
Acq: 17 Apr 2025 09:44

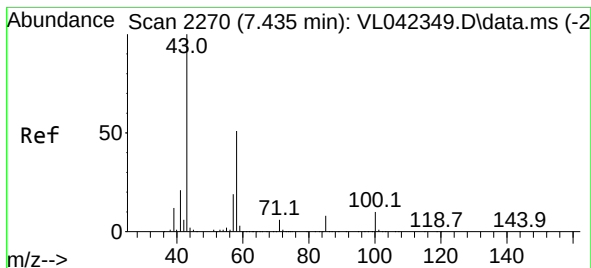
Tgt Ion: 43 Resp: 396548

Ion Ratio Lower Upper

43 100

58 35.8 28.6 43.0





#51

2-Hexanone

Concen: 7.511 ppbv

RT: 7.435 min Scan# 21

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

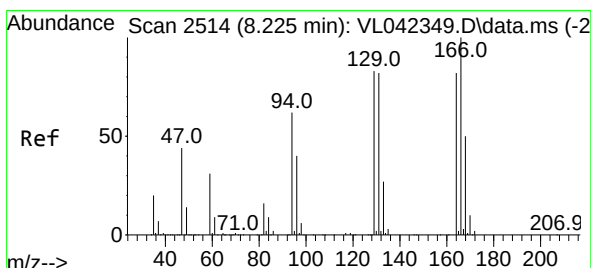
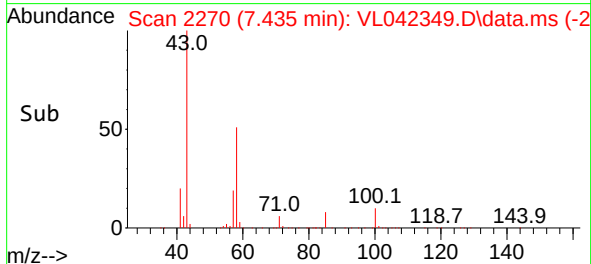
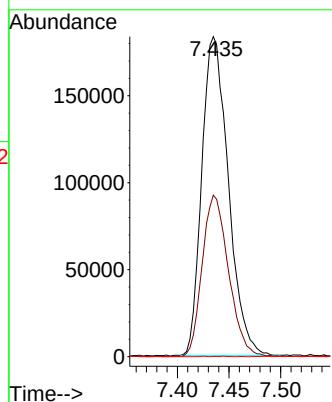
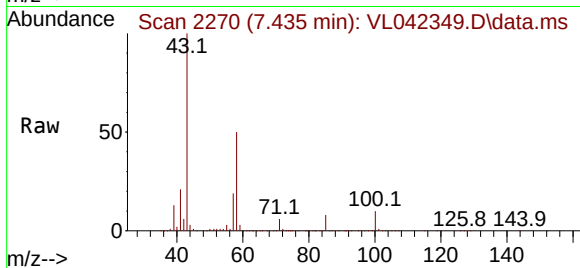
Tgt Ion: 43 Resp: 327165

Ion Ratio Lower Upper

43 100

58 50.3 40.2 60.4

98 0.1 0.1 0.1



#52

Tetrachloroethene

Concen: 8.553 ppbv

RT: 8.225 min Scan# 2514

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

Tgt Ion:164 Resp: 130720

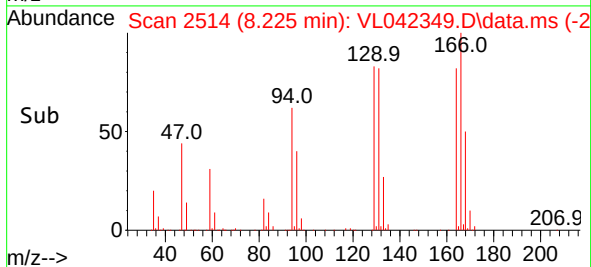
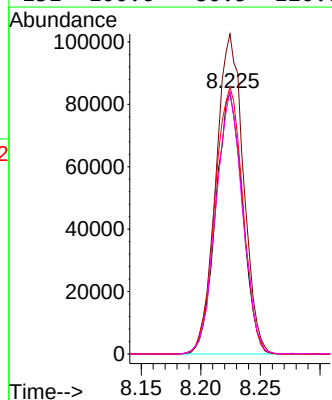
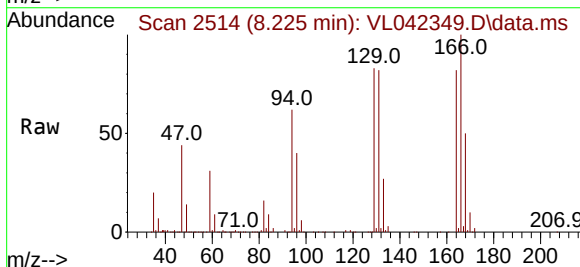
Ion Ratio Lower Upper

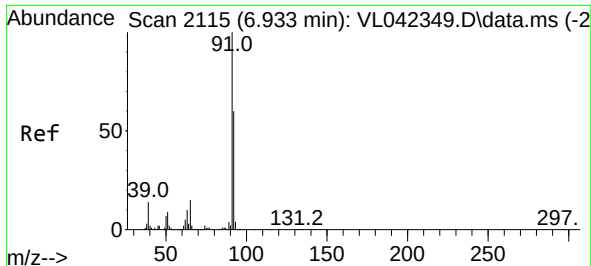
164 100

166 122.7 98.2 147.2

129 102.3 81.8 122.8

131 100.6 80.5 120.7

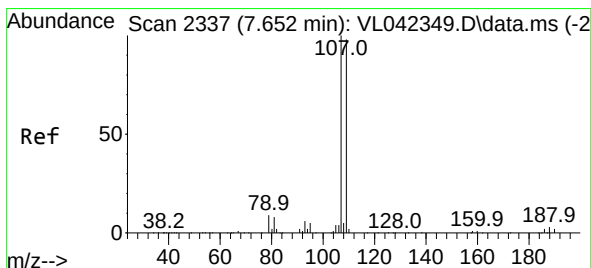
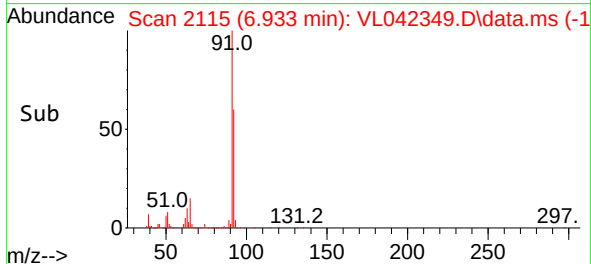
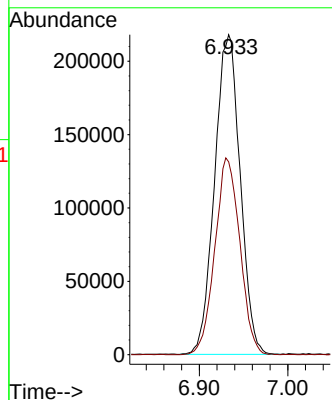
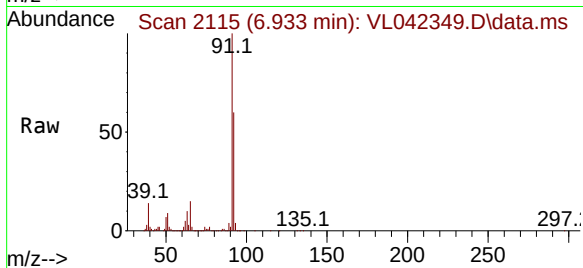




#53
Toluene
Concen: 9.216 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

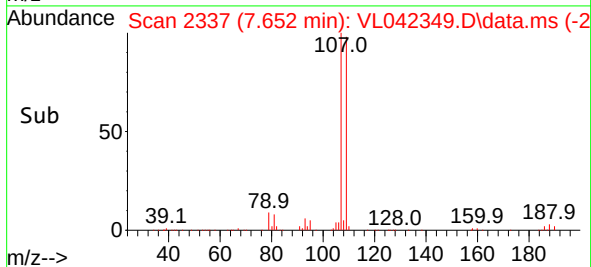
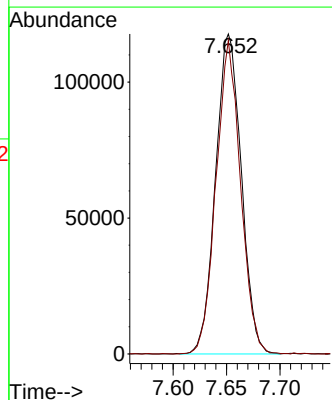
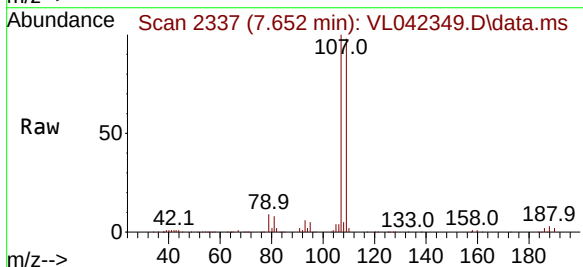
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

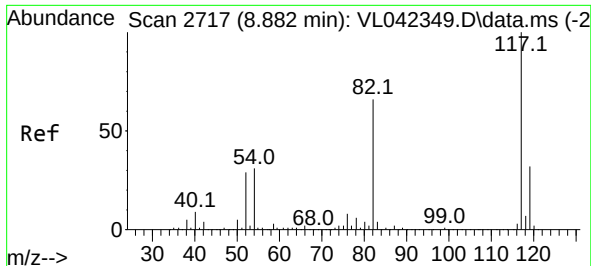
Tgt Ion: 91 Resp: 437258
Ion Ratio Lower Upper
91 100
92 60.3 48.2 72.4



#54
1,2-Dibromoethane
Concen: 9.235 ppbv
RT: 7.652 min Scan# 2337
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 107 Resp: 197665
Ion Ratio Lower Upper
107 100
109 97.8 78.2 117.4

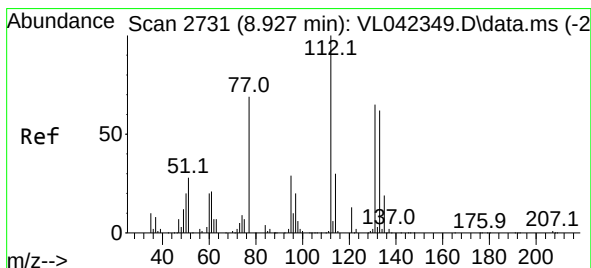
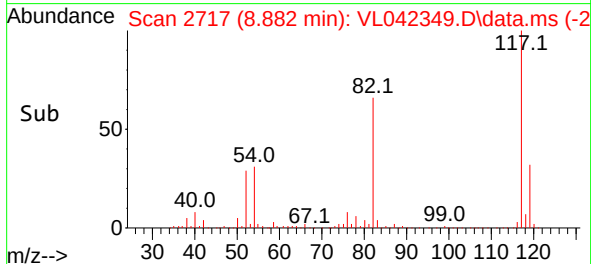
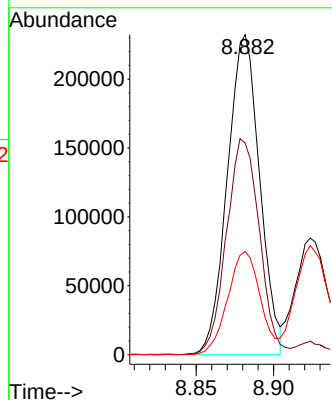
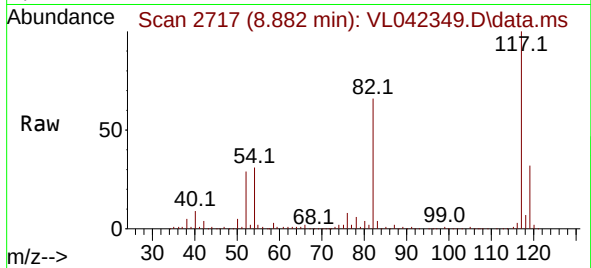




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2717
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

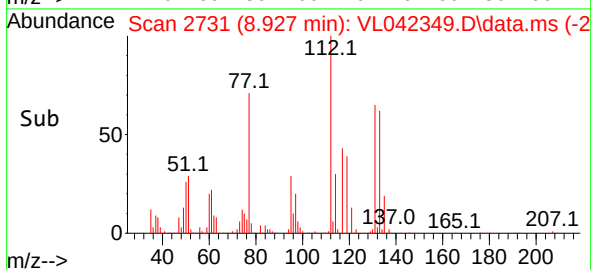
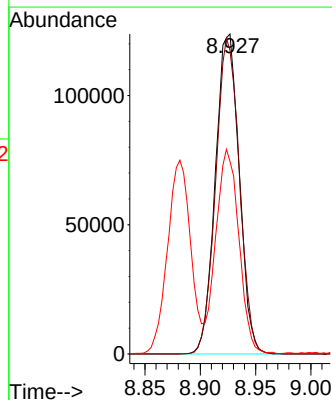
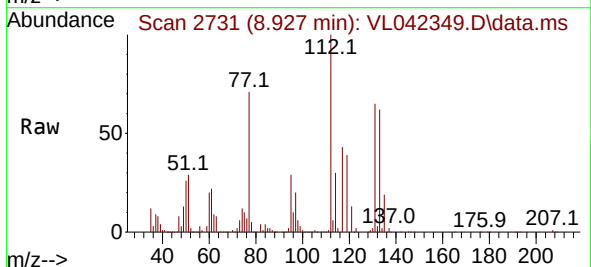
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

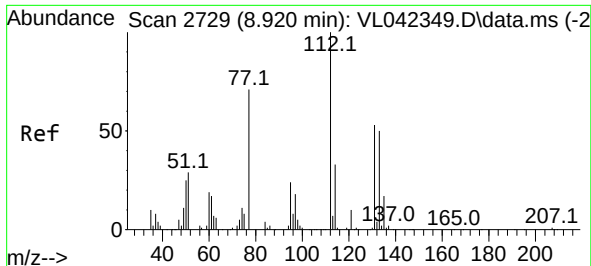
Tgt Ion:117 Resp: 338126
Ion Ratio Lower Upper
117 100
82 72.2 57.8 86.6
119 31.5 25.2 37.8



#56
1,1,1,2-Tetrachloroethane
Concen: 9.091 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:131 Resp: 186041
Ion Ratio Lower Upper
131 100
133 97.9 78.3 117.5
119 60.9 48.7 73.1

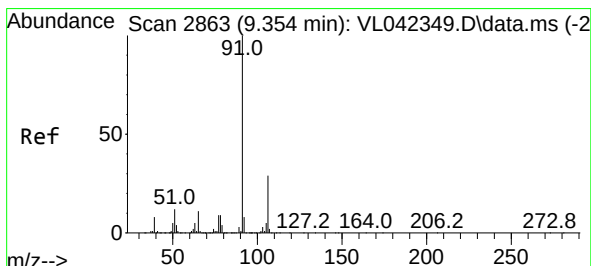
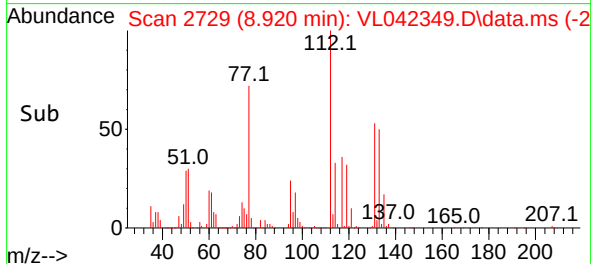
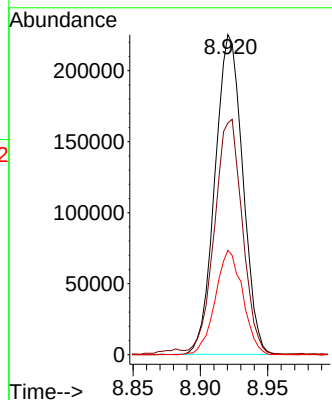
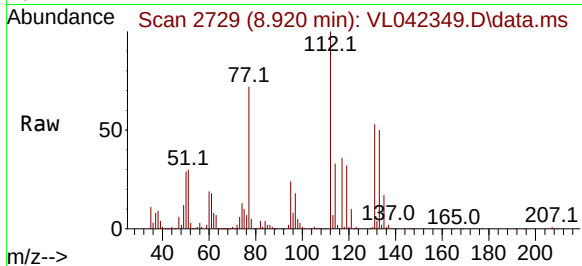




#57
Chlorobenzene
Concen: 9.187 ppbv
RT: 8.920 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

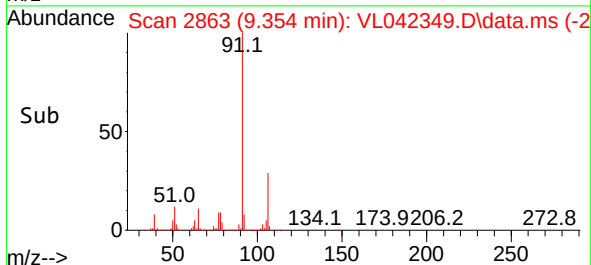
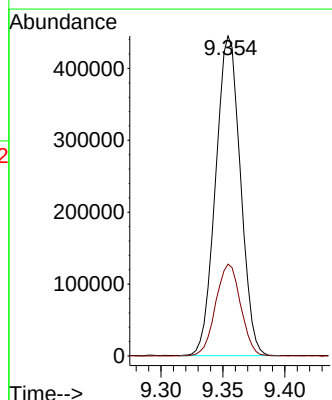
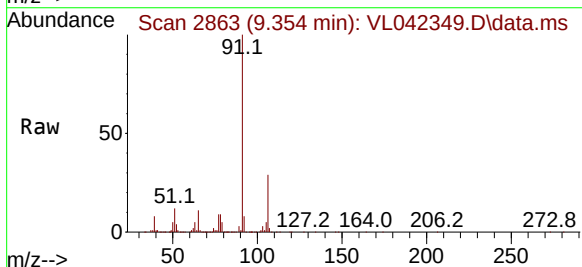
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

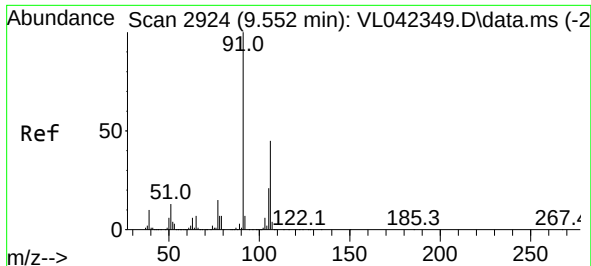
Tgt Ion:112 Resp: 323084
Ion Ratio Lower Upper
112 100
77 72.2 57.8 86.6
114 32.6 29.3 35.9



#58
Ethyl Benzene
Concen: 9.248 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion: 91 Resp: 619581
Ion Ratio Lower Upper
91 100
106 28.7 23.0 34.4





#59

m/p-Xylene

Concen: 8.299 ppbv

RT: 9.552 min Scan# 2924

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

Instrument :

MSVOA_L

ClientSampleId :

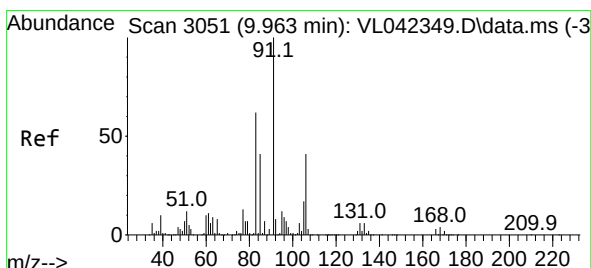
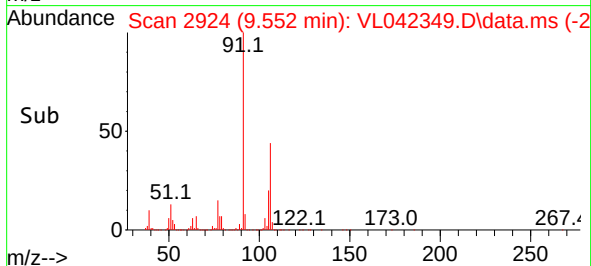
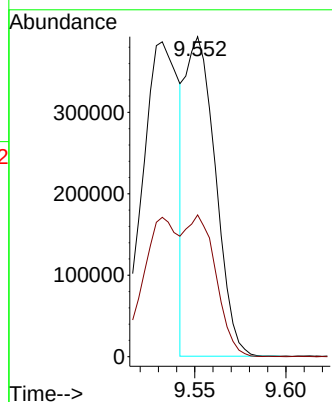
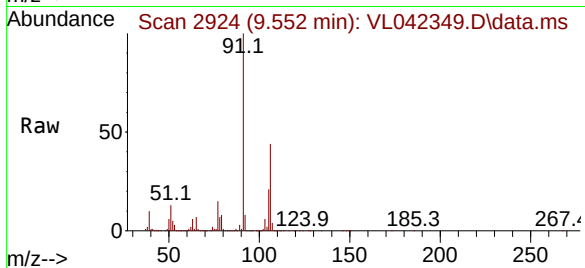
VSTDICCC010

Tgt Ion: 91 Resp: 449222

Ion Ratio Lower Upper

91 100

106 97.0 35.4 53.2#



#60

o-Xylene

Concen: 8.972 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. 0.000 min

Lab File: VL042349.D

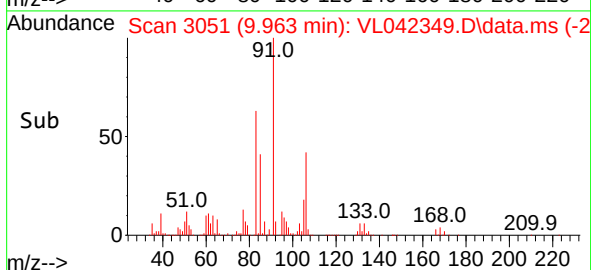
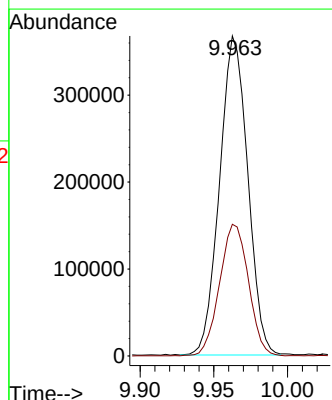
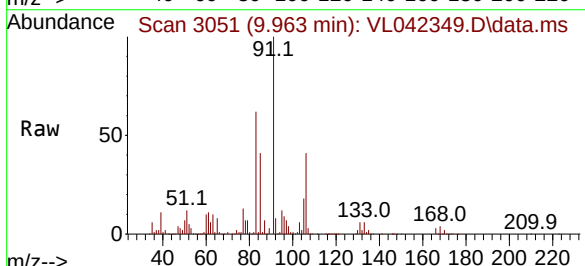
Acq: 17 Apr 2025 09:44

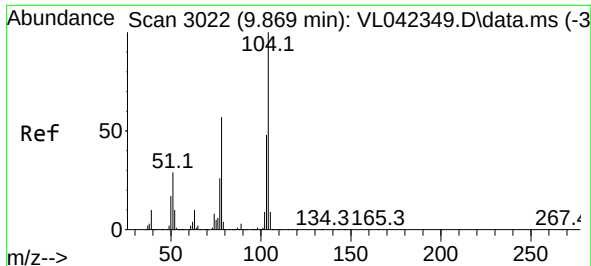
Tgt Ion: 91 Resp: 487616

Ion Ratio Lower Upper

91 100

106 42.3 21.1 63.4

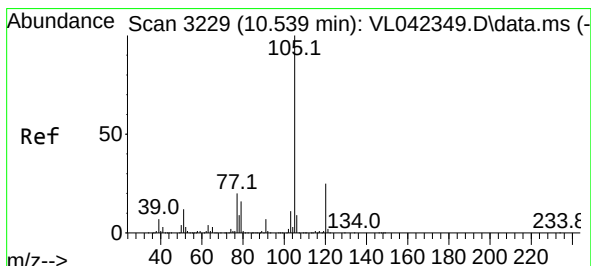
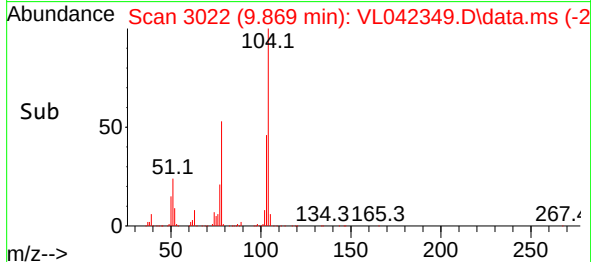
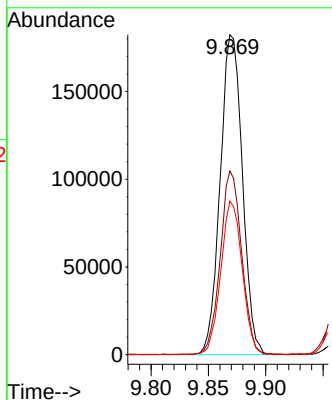
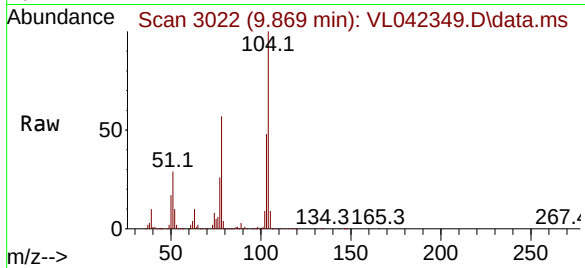




#61
Styrene
Concen: 9.464 ppbv
RT: 9.869 min Scan# 3022
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

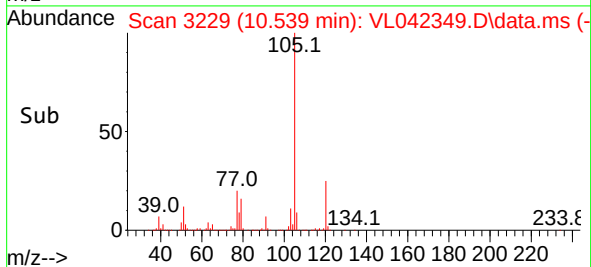
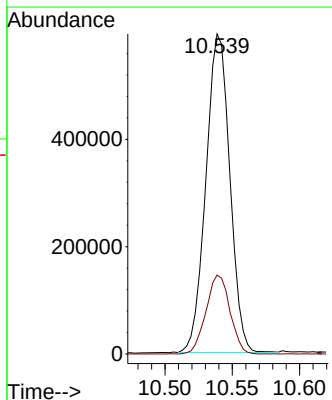
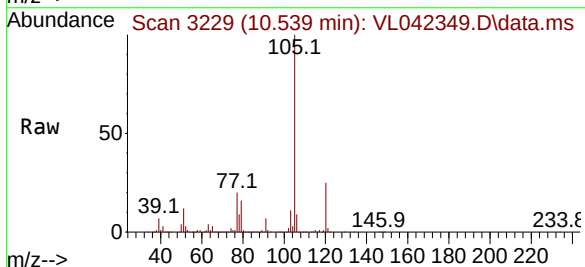
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

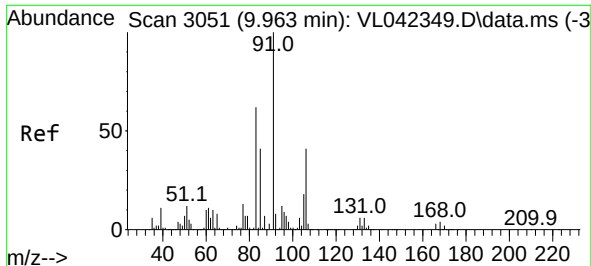
Tgt Ion:104 Resp: 245487
Ion Ratio Lower Upper
104 100
78 55.7 44.6 66.8
103 46.7 37.4 56.0



#62
Isopropylbenzene
Concen: 9.197 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:105 Resp: 733788
Ion Ratio Lower Upper
105 100
120 24.8 19.8 29.8

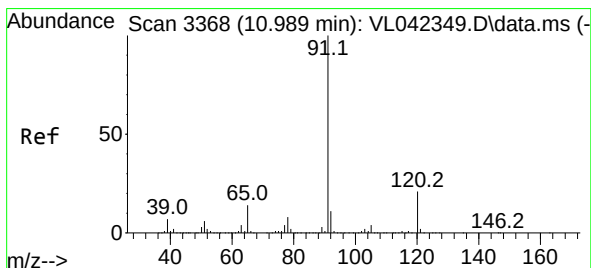
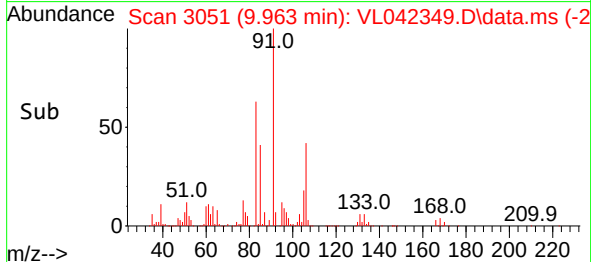
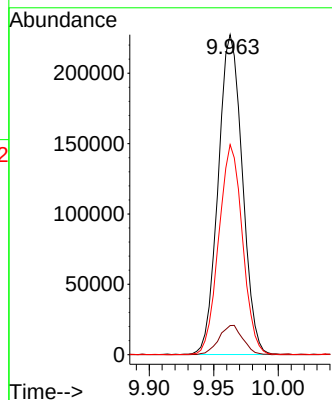
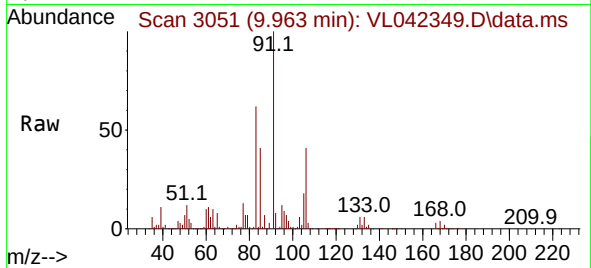




#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.355 ppbv
 RT: 9.963 min Scan# 3051
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44

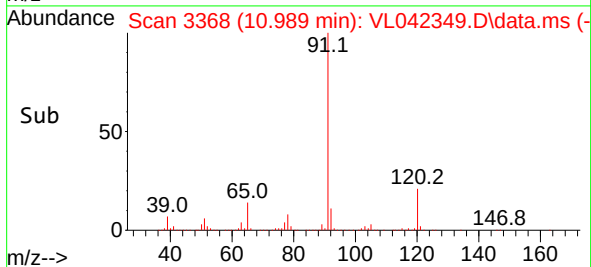
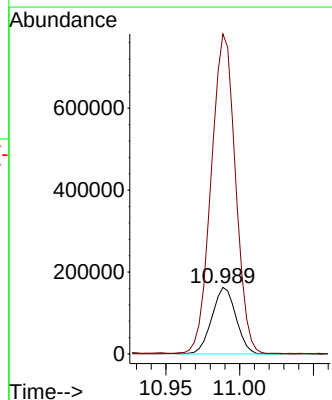
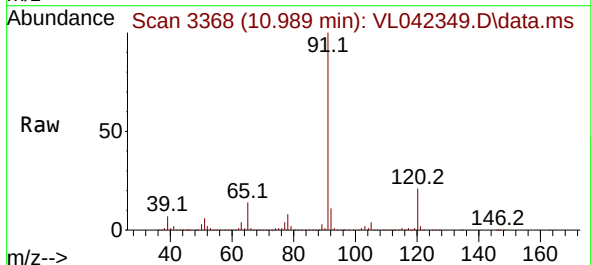
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

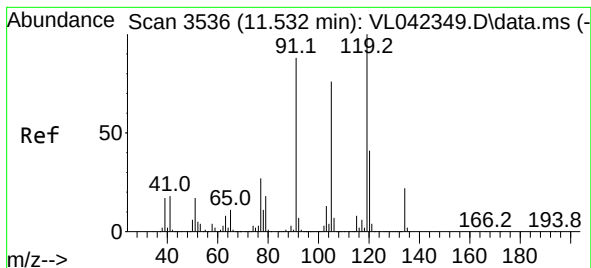
Tgt Ion: 83 Resp: 295041
 Ion Ratio Lower Upper
 83 100
 131 9.1 4.5 13.7
 85 64.7 32.4 97.0



#64
 n-propylbenzene
 Concen: 9.144 ppbv
 RT: 10.989 min Scan# 3368
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44

Tgt Ion: 120 Resp: 183390
 Ion Ratio Lower Upper
 120 100
 91 490.5 392.4 588.6





#65

tert-Butylbenzene

Concen: 8.795 ppbv

RT: 11.532 min Scan# 3536

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

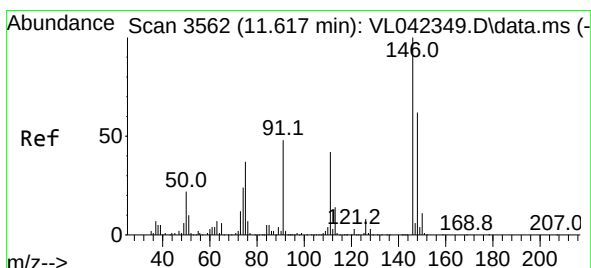
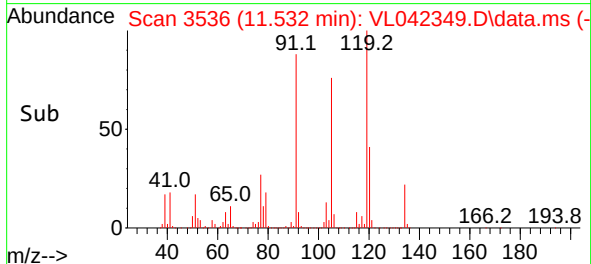
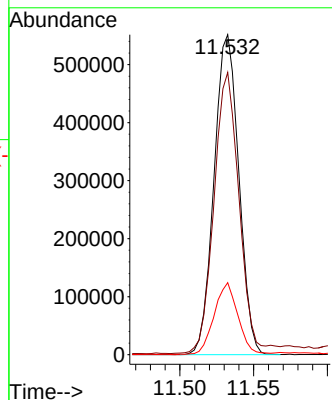
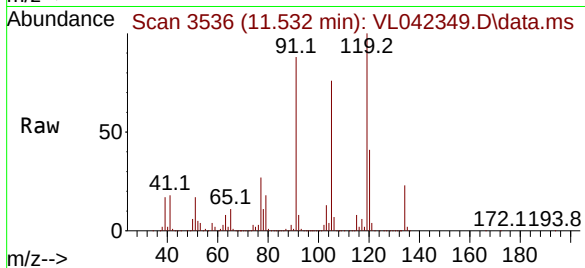
Tgt Ion:119 Resp: 644953

Ion Ratio Lower Upper

119 100

91 93.2 74.6 111.8

134 23.5 18.8 28.2



#66

Benzyl Chloride

Concen: 10.333 ppbv

RT: 11.617 min Scan# 3562

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

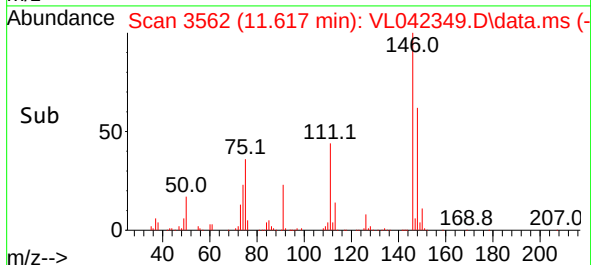
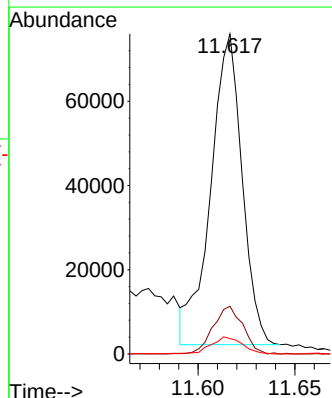
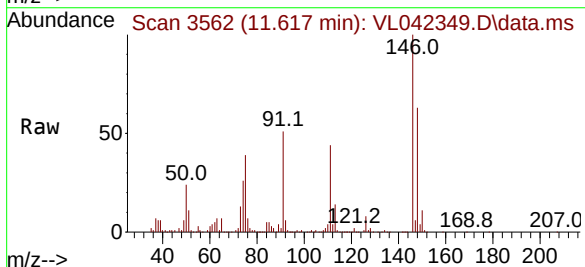
Tgt Ion: 91 Resp: 83269

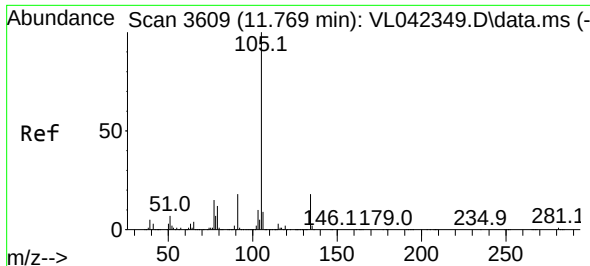
Ion Ratio Lower Upper

91 100

126 14.7 11.8 17.6

128 5.6 4.5 6.7

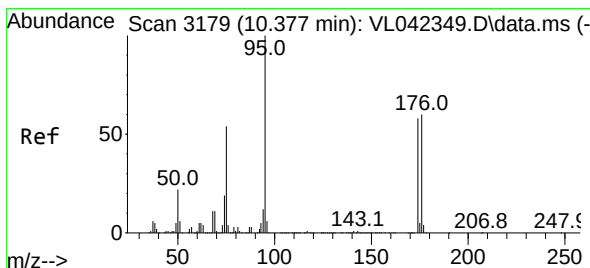
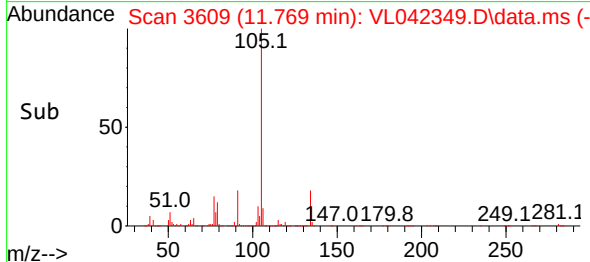
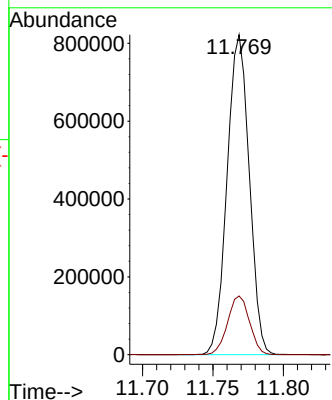
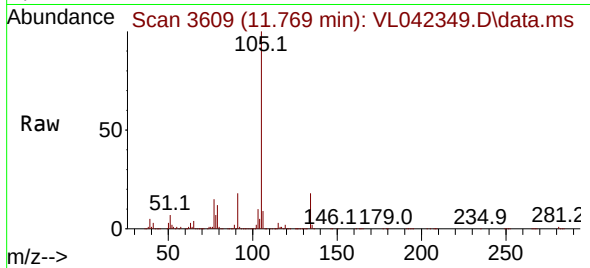




#67
 sec-Butylbenzene
 Concen: 8.824 ppbv
 RT: 11.769 min Scan# 3609
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44

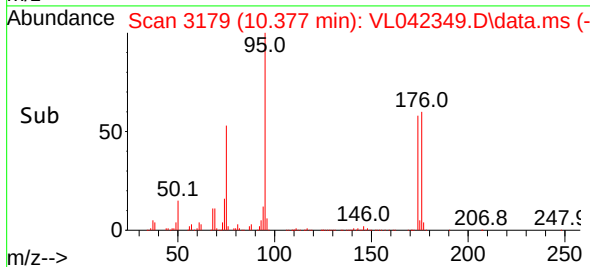
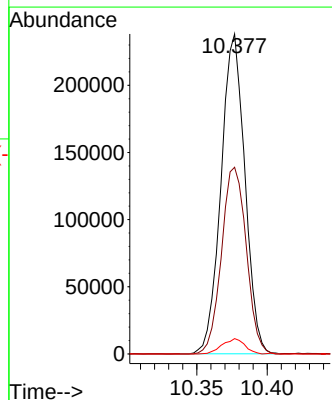
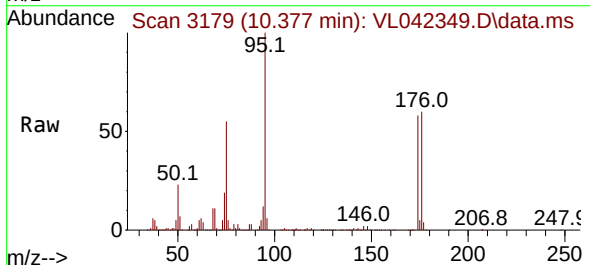
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

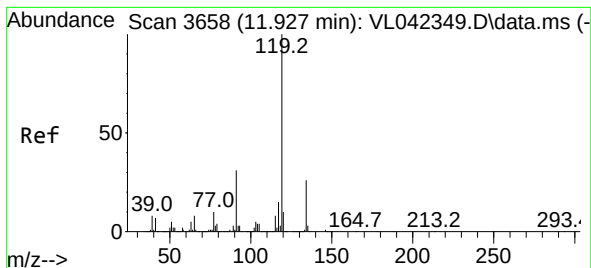
Tgt Ion:105 Resp: 900074
 Ion Ratio Lower Upper
 105 100
 134 18.2 14.6 21.8



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.114 ppbv
 RT: 10.377 min Scan# 3179
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44

Tgt Ion: 95 Resp: 281013
 Ion Ratio Lower Upper
 95 100
 174 60.6 48.5 72.7
 175 4.6 3.7 5.5





#69

p-Isopropyltoluene

Concen: 8.790 ppbv

RT: 11.927 min Scan# 3658

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

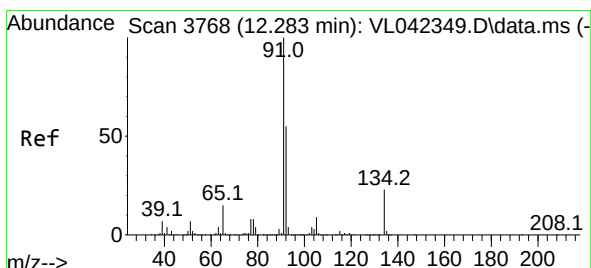
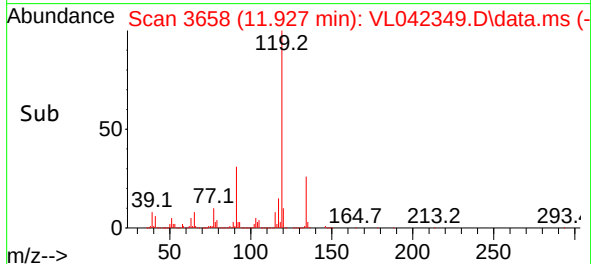
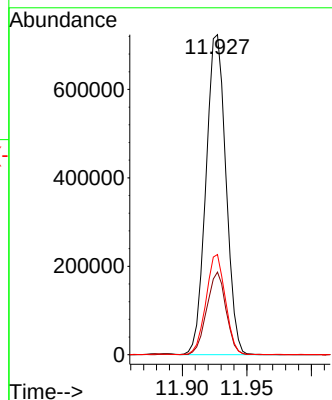
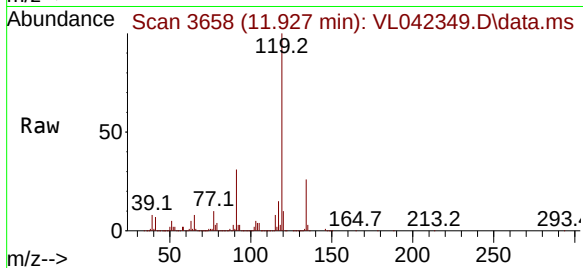
Tgt Ion:119 Resp: 778987

Ion Ratio Lower Upper

119 100

134 25.0 20.0 30.0

91 30.5 24.4 36.6



#70

n-Butylbenzene

Concen: 8.682 ppbv

RT: 12.283 min Scan# 3768

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

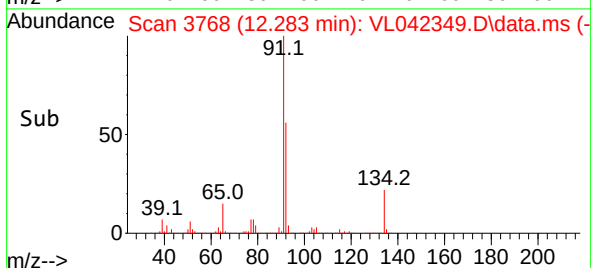
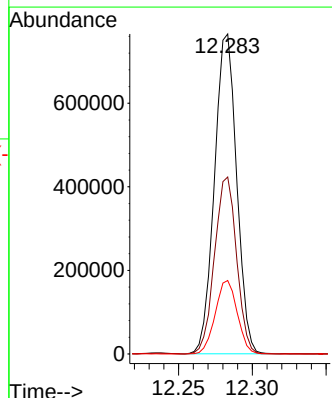
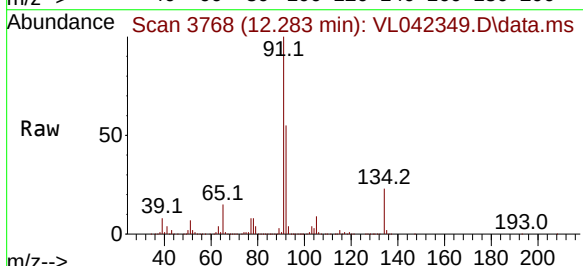
Tgt Ion: 91 Resp: 801364

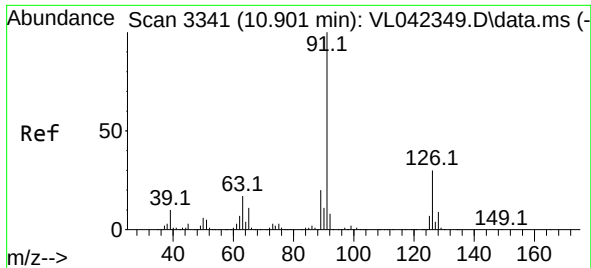
Ion Ratio Lower Upper

91 100

92 55.3 44.2 66.4

134 22.8 18.2 27.4

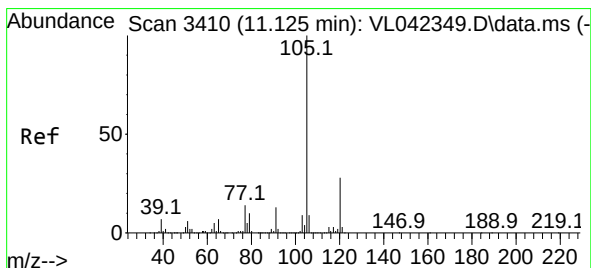
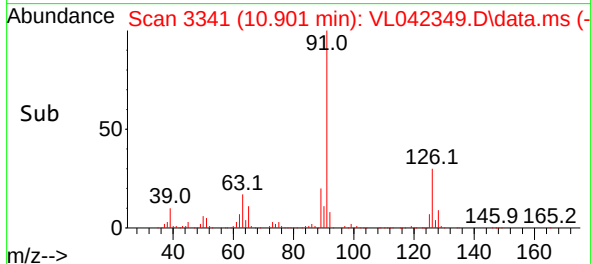
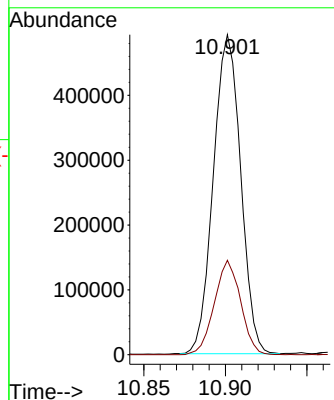
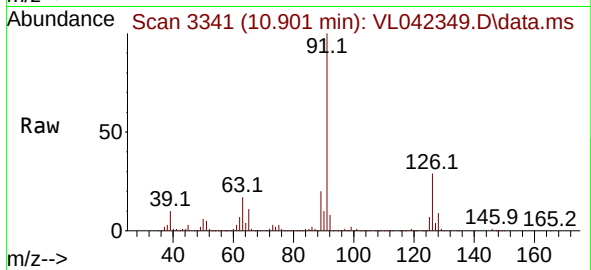




#71
2-Chlorotoluene
Concen: 9.157 ppbv
RT: 10.901 min Scan# 3341
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

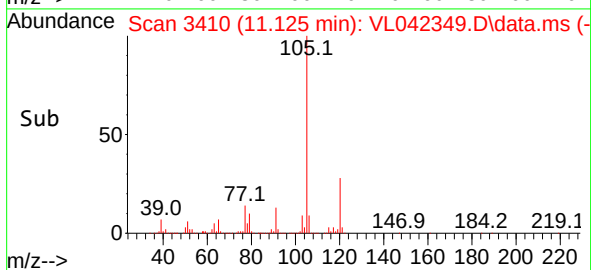
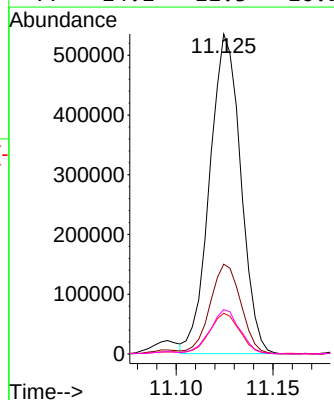
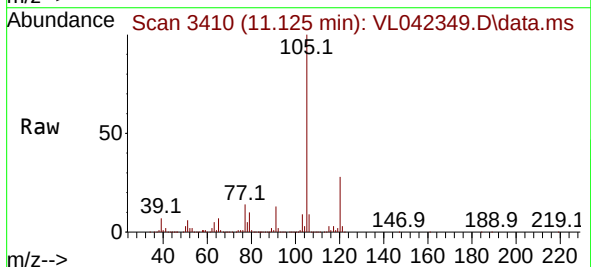
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

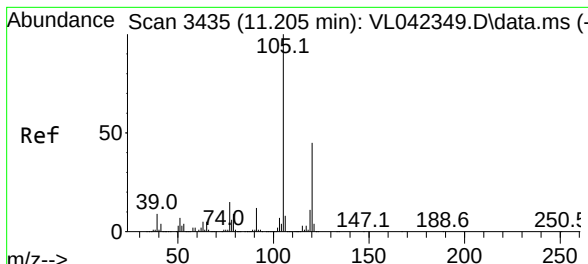
Tgt Ion: 91 Resp: 573039
Ion Ratio Lower Upper
91 100
126 28.4 11.4 45.4



#72
4-Ethyltoluene
Concen: 8.982 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:105 Resp: 596757
Ion Ratio Lower Upper
105 100
120 29.0 23.2 34.8
91 13.0 10.4 15.6
77 14.1 11.3 16.9



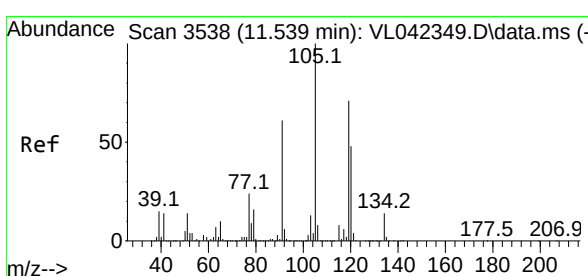
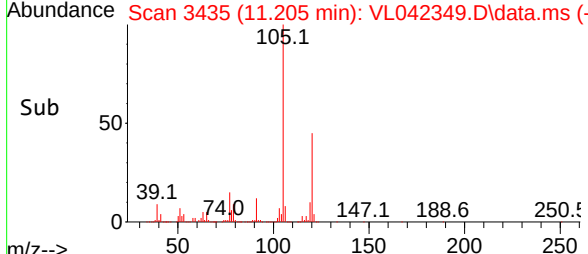
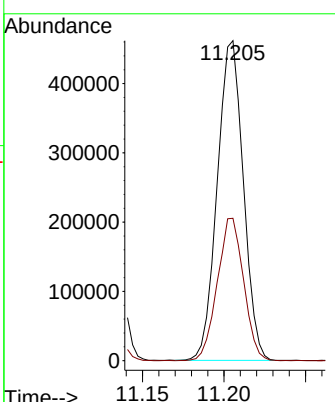
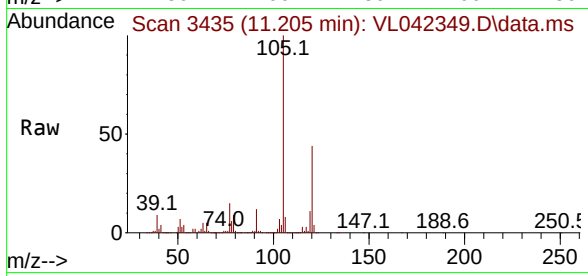


#73
 1,3,5-Trimethylbenzene
 Concen: 8.743 ppbv
 RT: 11.205 min Scan# 3435
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44

Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

Tgt Ion:105 Resp: 512855

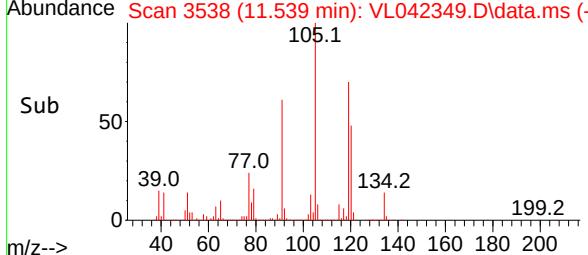
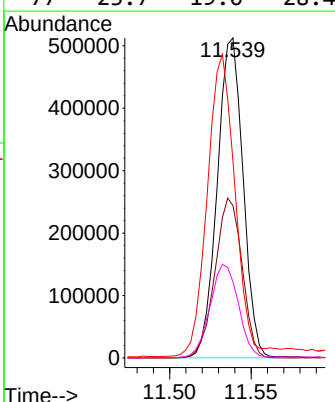
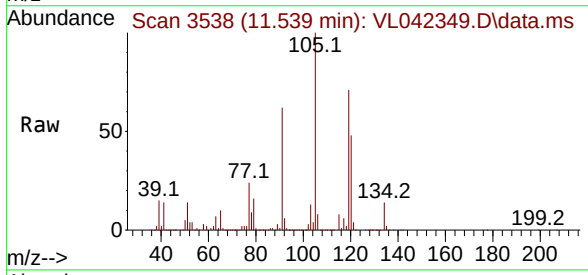
Ion	Ratio	Lower	Upper
105	100		
120	44.5	35.6	53.4

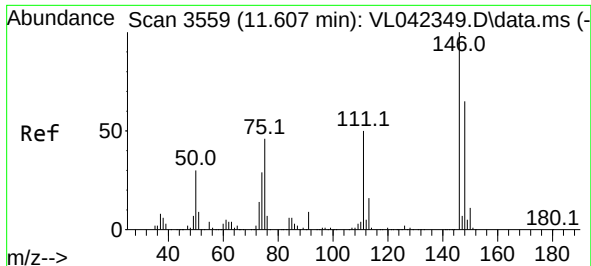


#74
 1,2,4-Trimethylbenzene
 Concen: 8.248 ppbv
 RT: 11.539 min Scan# 3538
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44

Tgt Ion:105 Resp: 565064

Ion	Ratio	Lower	Upper
105	100		
120	47.6	38.1	57.1
91	61.0	48.8	73.2
77	23.7	19.0	28.4

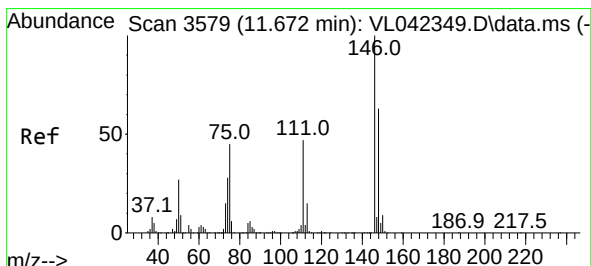
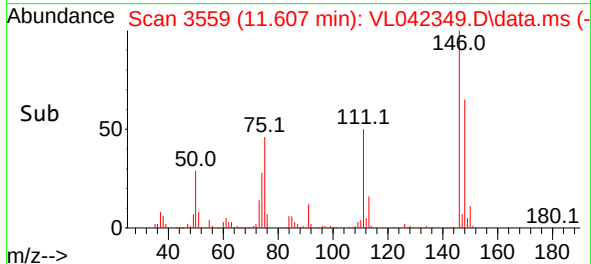
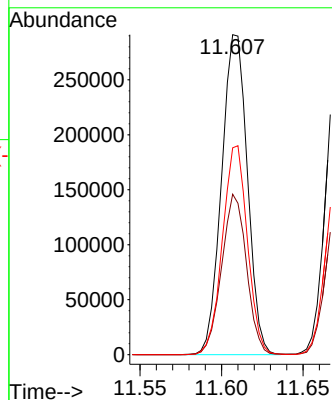
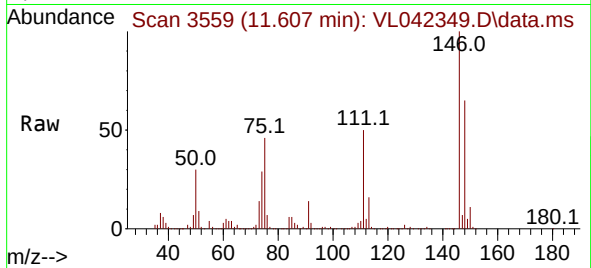




#75
1,3-Dichlorobenzene
Concen: 8.997 ppbv
RT: 11.607 min Scan# 3559
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

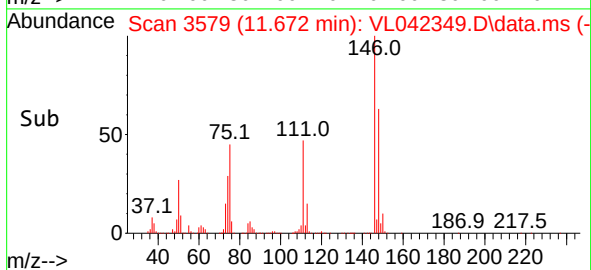
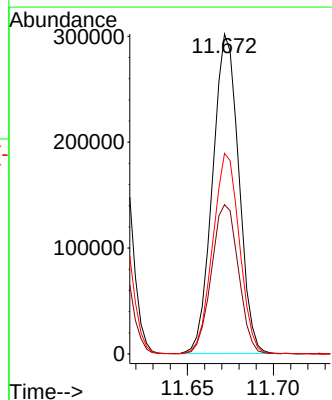
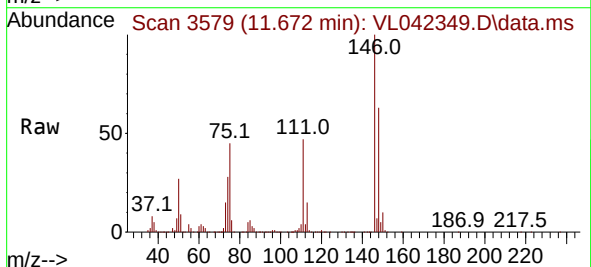
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

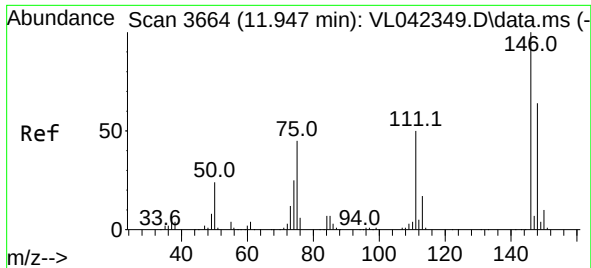
Tgt Ion:146 Resp: 320380
Ion Ratio Lower Upper
146 100
111 48.5 24.3 72.8
148 63.2 31.6 94.8



#76
1,4-Dichlorobenzene
Concen: 8.915 ppbv
RT: 11.672 min Scan# 3579
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:146 Resp: 319089
Ion Ratio Lower Upper
146 100
111 48.4 24.2 72.6
148 64.3 32.1 96.5

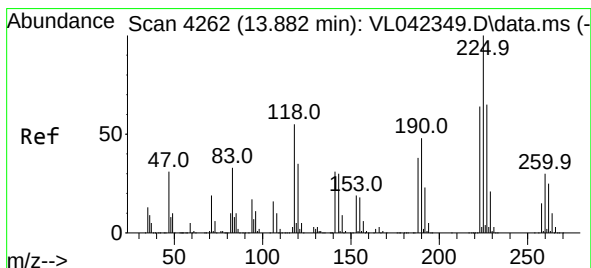
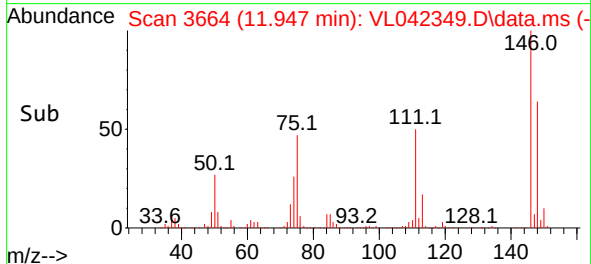
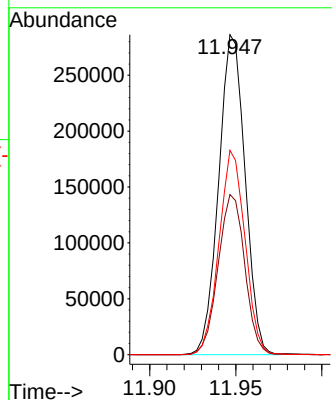
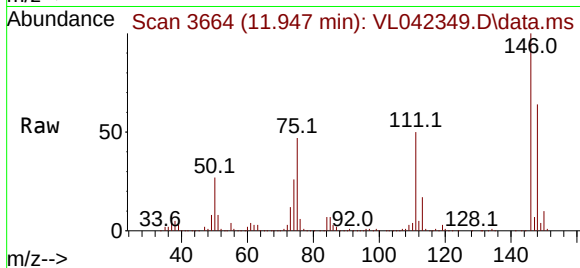




#77
1,2-Dichlorobenzene
Concen: 8.832 ppbv
RT: 11.947 min Scan# 3664
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

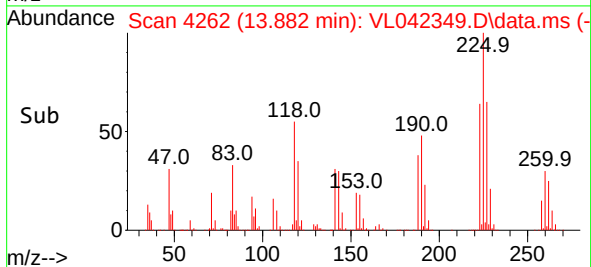
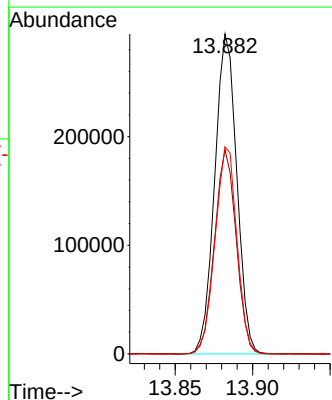
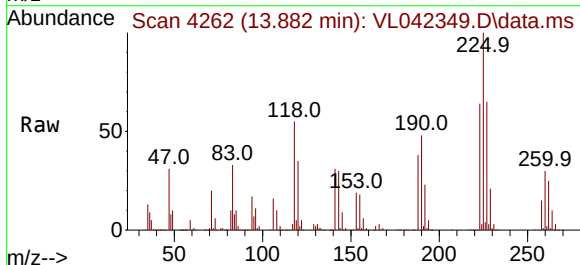
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

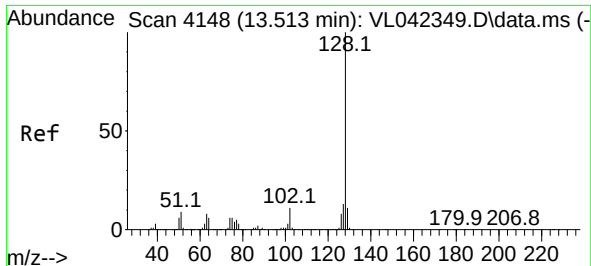
Tgt Ion:146 Resp: 305822
Ion Ratio Lower Upper
146 100
111 50.6 25.3 75.9
148 63.0 31.5 94.5



#78
Hexachloro-1,3-Butadiene
Concen: 8.346 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:225 Resp: 291833
Ion Ratio Lower Upper
225 100
223 62.9 50.3 75.5
227 64.4 51.5 77.3

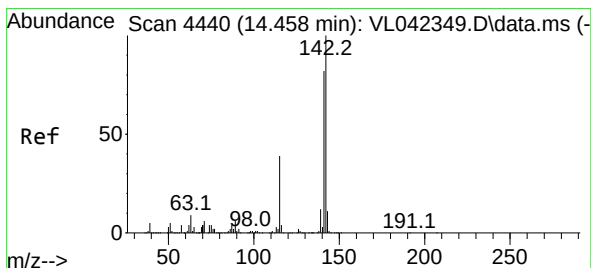
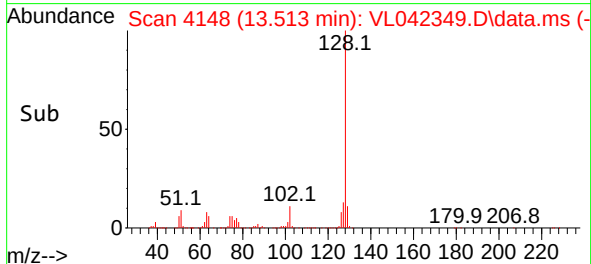
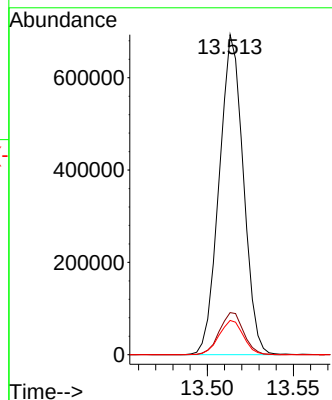
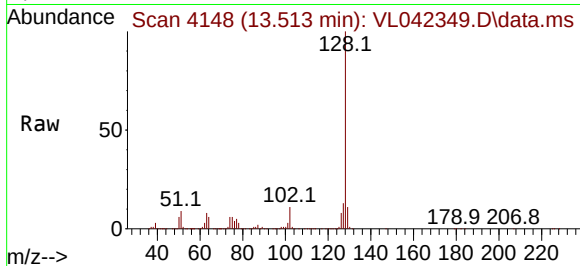




#79
Naphthalene
Concen: 8.271 ppbv
RT: 13.513 min Scan# 4148
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

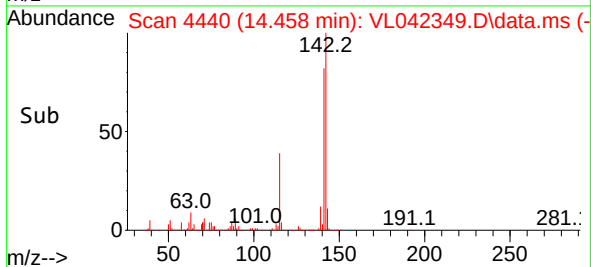
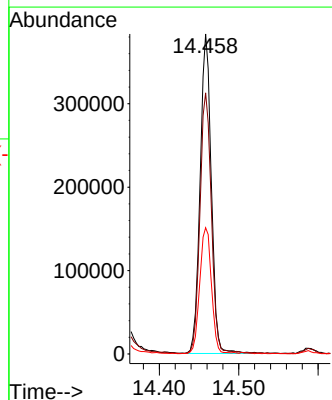
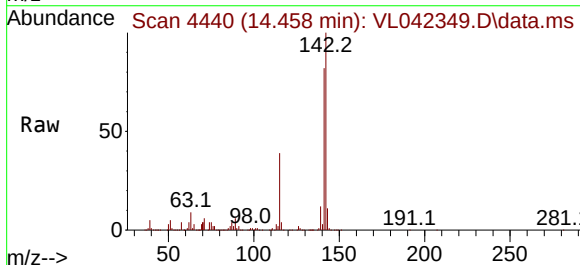
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

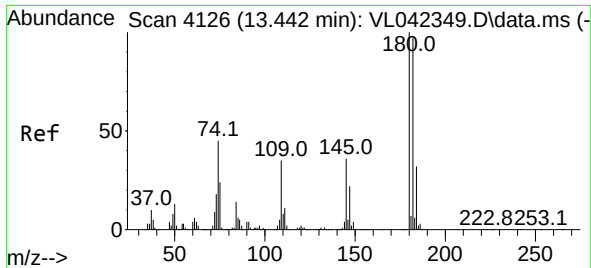
Tgt Ion:128 Resp: 677578
Ion Ratio Lower Upper
128 100
127 13.2 10.6 15.8
129 10.7 8.6 12.8



#80
Naphthalene,2-methyl-
Concen: 8.074 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Tgt Ion:142 Resp: 376995
Ion Ratio Lower Upper
142 100
141 83.5 66.8 100.2
115 41.8 33.4 50.2





#81

1,2,4-Trichlorobenzene

Concen: 8.702 ppbv

RT: 13.442 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL042349.D

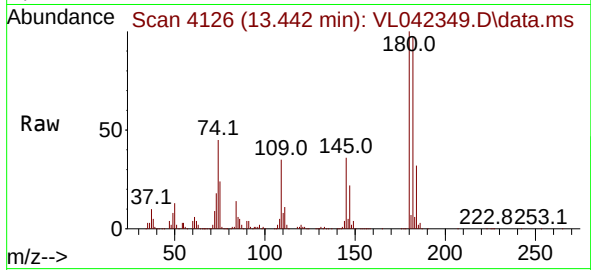
Acq: 17 Apr 2025 09:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010



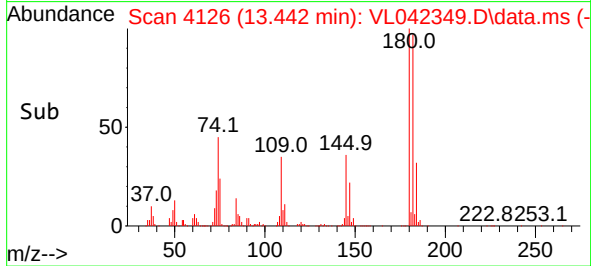
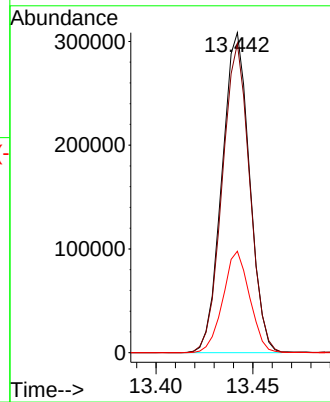
Tgt Ion:180 Resp: 306119

Ion Ratio Lower Upper

180 100

182 96.0 76.8 115.2

184 30.7 24.6 36.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042350.D
 Acq On : 17 Apr 2025 10:17
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Quant Time: Apr 18 01:26:23 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 01:24:29 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	123206	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	355918	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.881	117	335603	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.377	95	275715	9.998	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.000%

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.499	85	45008	2.068	ppbv	95
3) Chlorodifluoromethane	1.476	51	41853	2.019	ppbv	97
4) Chloromethane	1.534	50	17272	2.005	ppbv	93
5) Vinyl Chloride	1.580	62	16979	1.811	ppbv	92
6) Bromomethane	1.667	94	7398	1.821	ppbv #	80
7) Chloroethane	1.706	64	6889	2.031	ppbv	98
8) Dichlorotetrafluoroethane	1.554	85	38955	2.084	ppbv	98
9) Propene	1.483	41	18671	1.978	ppbv	97
10) Heptane	4.978	43	34658	1.364	ppbv #	62
11) Trichlorofluoromethane	1.877	101	43035	2.079	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.140	101	35415	2.092	ppbv	100
13) Ethanol	1.722	45	1417	1.837	ppbv	59
14) Bromoethene	1.780	108	13049	2.045	ppbv #	92
15) Acetone	1.835	43	42949	2.129	ppbv	93
16) 1,3-Butadiene	1.609	39	18110	1.912	ppbv	96
17) tert-Butyl alcohol	2.042	59	51829	2.074	ppbv #	94
18) 1,1-Dichloroethene	2.036	96	15690	1.928	ppbv	87
19) Isopropyl Alcohol	1.887	45	22106	1.973	ppbv #	38
20) Methylene Chloride	2.062	84	14329	1.814	ppbv #	82
21) Allyl Chloride	2.098	41	27340	1.963	ppbv	95
22) trans-1,2-Dichloroethene	2.340	96	18142	2.015	ppbv	97
23) Vinyl Acetate	2.463	43	18454	2.260	ppbv #	91
24) 1,1-Dichloroethane	2.411	63	34077	1.993	ppbv	96
25) Ethyl Acetate	2.835	43	101467	2.040	ppbv	99
26) Hexane	2.826	57	40046	1.990	ppbv	99
27) Carbon Disulfide	2.149	76	43975	2.041	ppbv #	64
28) Methyl tert-Butyl Ether	2.441	73	27905	2.116	ppbv	97
29) Chloroform	2.848	83	58946	2.072	ppbv	100
30) Cyclohexane	3.858	84	33195	2.048	ppbv	94
31) cis-1,2-Dichloroethene	2.722	61	39249	2.051	ppbv	98
32) 1,1,1-Trichloroethane	3.366	97	61442	2.014	ppbv	99
34) 2-Butanone	2.560	43	58249	2.069	ppbv	100
35) Carbon Tetrachloride	3.761	117	60291	1.872	ppbv	88
36) Benzene	3.658	78	79814	2.079	ppbv	98
37) 1,2-Dichloroethane	3.217	62	47398	2.057	ppbv	100
38) Trichloroethene	4.544	130	16602	0.986	ppbv	94
39) 1,2-Dichloropropane	4.315	63	28806	2.012	ppbv	96
40) 1,4-Dioxane	4.593	88	16026	2.067	ppbv #	81
41) Tetrahydrofuran	3.059	42	33298	2.047	ppbv	98
42) Bromodichloromethane	4.489	83	64941	2.025	ppbv	97
43) Methyl Methacrylate	4.881	69	35256	2.046	ppbv	97
44) 2,2,4-Trimethylpentane	4.645	57	139641	2.103	ppbv	99
45) t-1,3-Dichloropropene	6.415	75	36265	2.050	ppbv	94

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042350.D
 Acq On : 17 Apr 2025 10:17
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

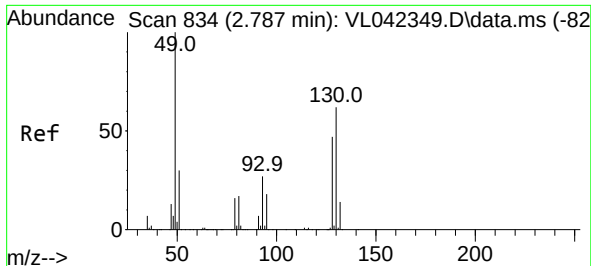
Quant Time: Apr 18 01:26:23 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 01:24:29 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.600	75	25569	1.183	ppbv	90
47) 1,1,2-Trichloroethane	6.590	97	29879	2.049	ppbv	88
48) Dibromochloromethane	7.389	129	53069	2.061	ppbv	100
49) Bromoform	9.483	173	48069	2.135	ppbv	97
50) 4-Methyl-2-Pentanone	5.758	43	102182	2.180	ppbv	99
51) 2-Hexanone	7.441	43	100443	2.375	ppbv	98
52) Tetrachloroethene	8.228	164	27854	1.877	ppbv	96
53) Toluene	6.933	91	97493	2.116	ppbv	98
54) 1,2-Dibromoethane	7.655	107	43153	2.076	ppbv	87
56) 1,1,1,2-Tetrachloroethane	8.924	131	42601	2.097	ppbv	95
57) Chlorobenzene	8.924	112	71685	2.054	ppbv	98
58) Ethyl Benzene	9.357	91	138810	2.088	ppbv	98
59) m/p-Xylene	9.551	91	103886	1.934	ppbv #	32
60) o-Xylene	9.963	91	111972	2.076	ppbv	98
61) Styrene	9.872	104	54229	2.106	ppbv	98
62) Isopropylbenzene	10.539	105	163716	2.067	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.963	83	64952	1.853	ppbv	99
64) n-propylbenzene	10.989	120	40956	2.058	ppbv	96
65) tert-Butylbenzene	11.532	119	155401	2.135	ppbv	92
66) Benzyl Chloride	11.616	91	17300	2.163	ppbv	98
67) sec-Butylbenzene	11.769	105	218327	2.156	ppbv	100
69) p-Isopropyltoluene	11.927	119	188657	2.145	ppbv	99
70) n-Butylbenzene	12.283	91	198221	2.164	ppbv	99
71) 2-Chlorotoluene	10.901	91	128858	2.075	ppbv	98
72) 4-Ethyltoluene	11.124	105	137872	2.091	ppbv	97
73) 1,3,5-Trimethylbenzene	11.205	105	123580	2.123	ppbv	98
74) 1,2,4-Trimethylbenzene	11.539	105	145510	2.140	ppbv	92
75) 1,3-Dichlorobenzene	11.607	146	75082	2.124	ppbv	98
76) 1,4-Dichlorobenzene	11.671	146	75323	2.120	ppbv	99
77) 1,2-Dichlorobenzene	11.947	146	74786	2.176	ppbv	98
78) Hexachloro-1,3-Butadiene	13.882	225	76158	2.194	ppbv	100
79) Naphthalene	13.513	128	195233	2.401	ppbv	99
80) Naphthalene,2-methyl-	14.458	142	119262	2.574	ppbv	99
81) 1,2,4-Trichlorobenzene	13.442	180	82156	2.353	ppbv	99

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

Quant Time: Apr 18 01:26:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

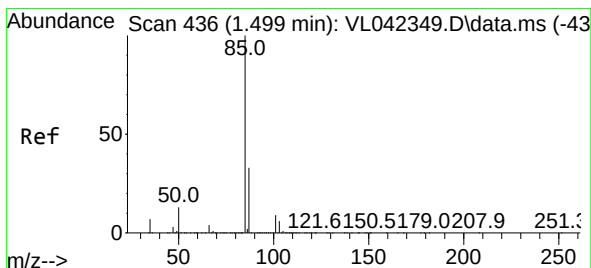
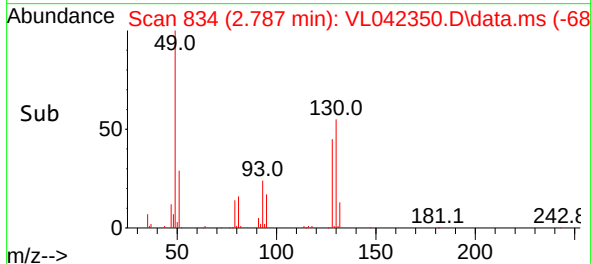
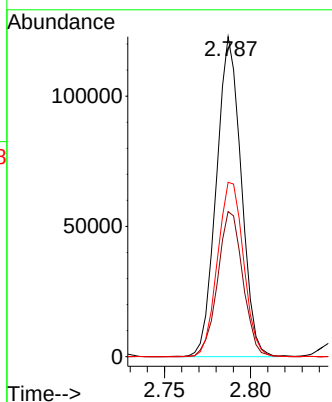
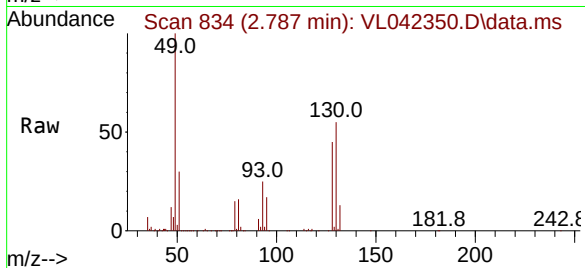




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 834
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

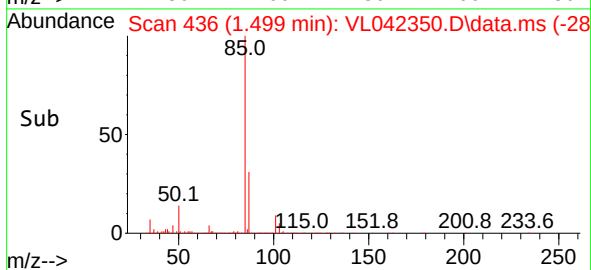
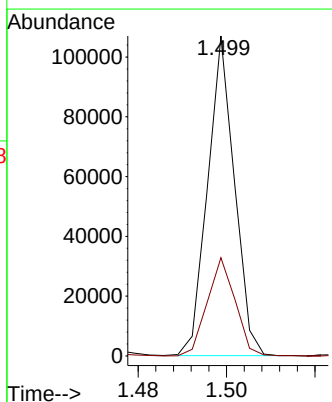
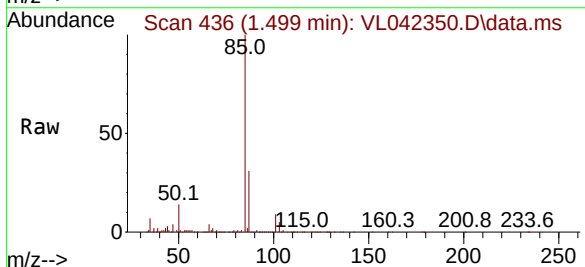
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

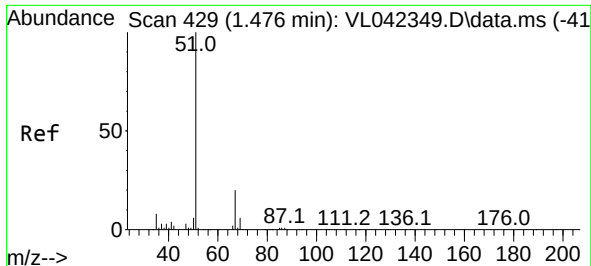
Tgt Ion: 49 Resp: 123206
Ion Ratio Lower Upper
49 100
128 46.2 22.8 68.4
130 57.3 29.3 88.0



#2
Dichlorodifluoromethane
Concen: 2.068 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 85 Resp: 45008
Ion Ratio Lower Upper
85 100
87 30.6 26.6 39.8

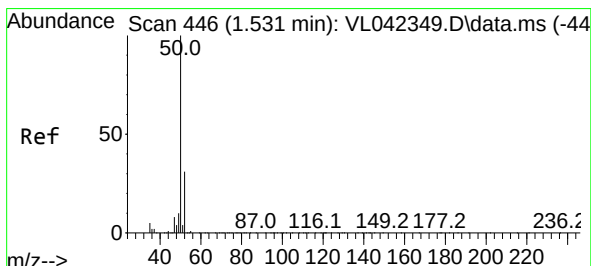
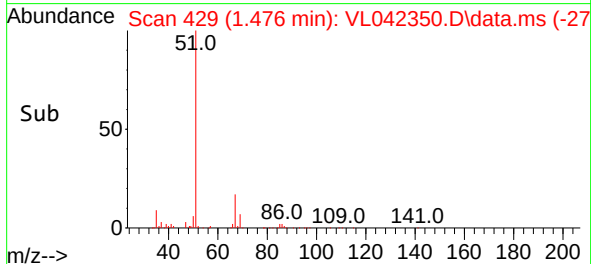
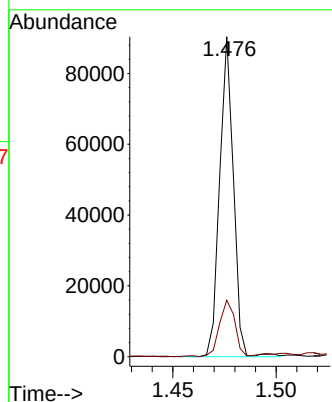
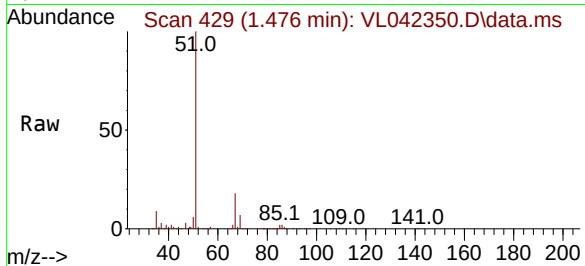




#3
Chlorodifluoromethane
Concen: 2.019 ppbv
RT: 1.476 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

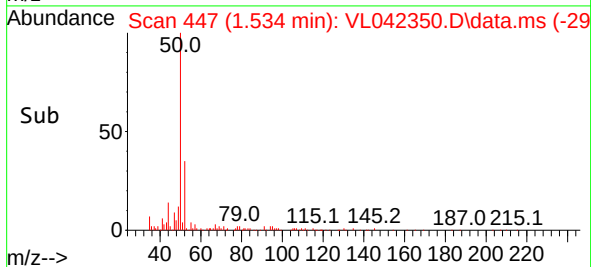
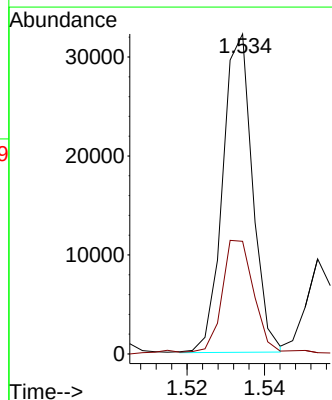
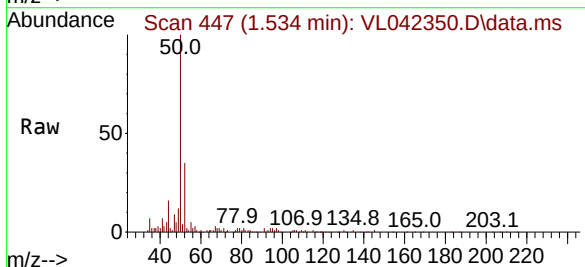
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

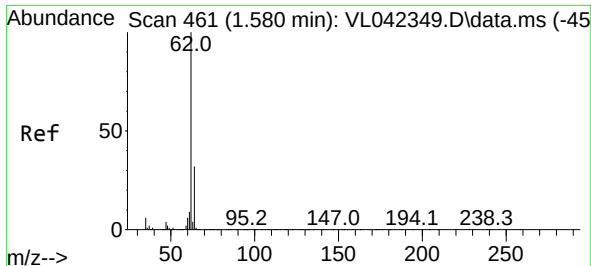
Tgt Ion: 51 Resp: 41853
Ion Ratio Lower Upper
51 100
67 21.7 16.2 24.4



#4
Chloromethane
Concen: 2.005 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 50 Resp: 17272
Ion Ratio Lower Upper
50 100
52 34.9 24.7 37.1

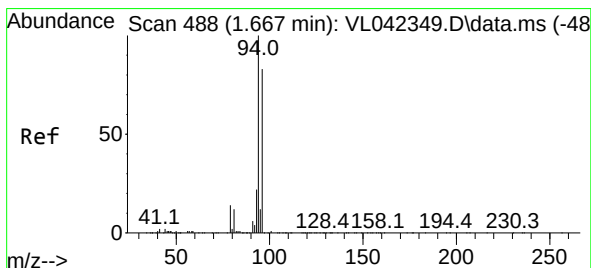
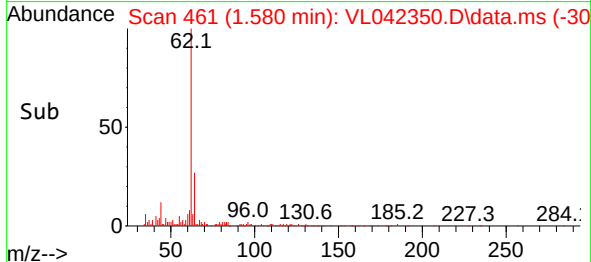
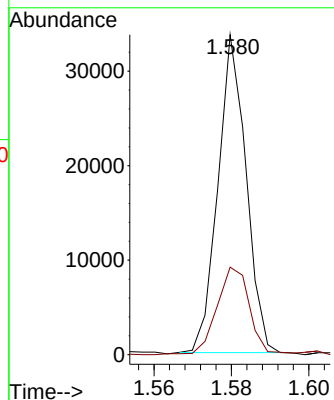
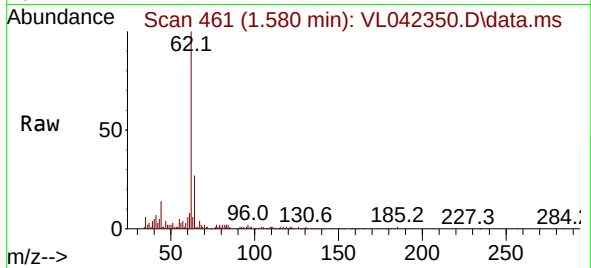




#5
 Vinyl Chloride
 Concen: 1.811 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. -0.000 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

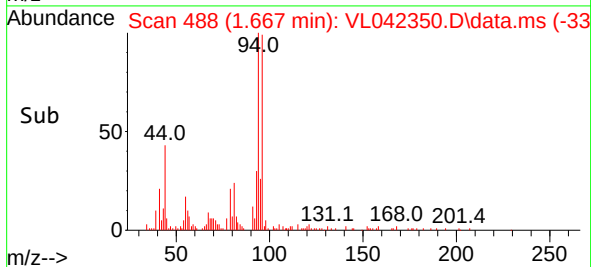
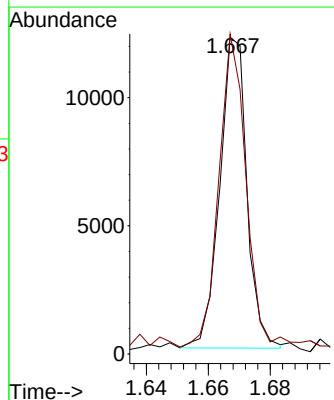
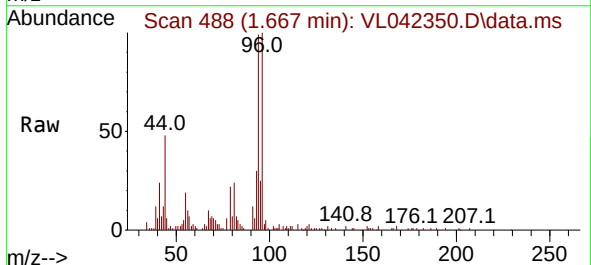
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002

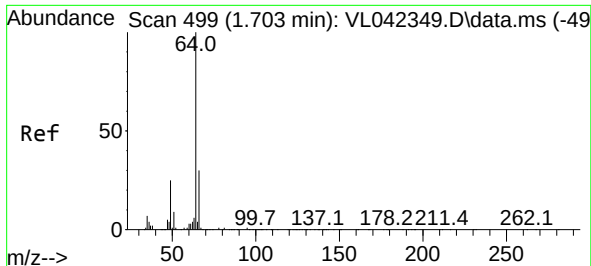
Tgt Ion: 62 Resp: 16979
 Ion Ratio Lower Upper
 62 100
 64 27.2 25.4 38.0



#6
 Bromomethane
 Concen: 1.821 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. -0.000 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

Tgt Ion: 94 Resp: 7398
 Ion Ratio Lower Upper
 94 100
 96 100.8 66.2 99.2#

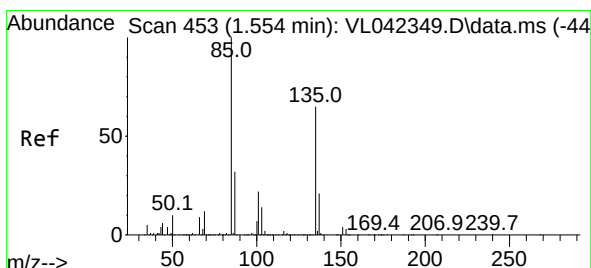
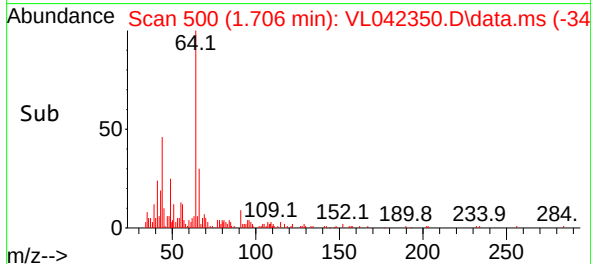
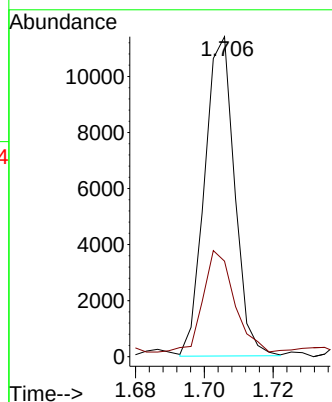
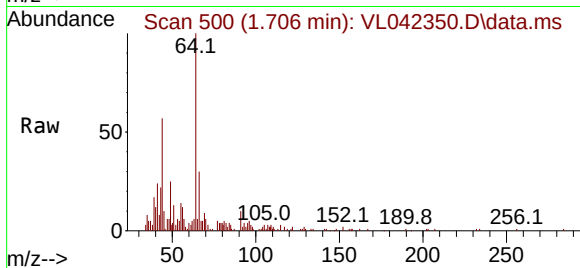




#7
Chloroethane
Concen: 2.031 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

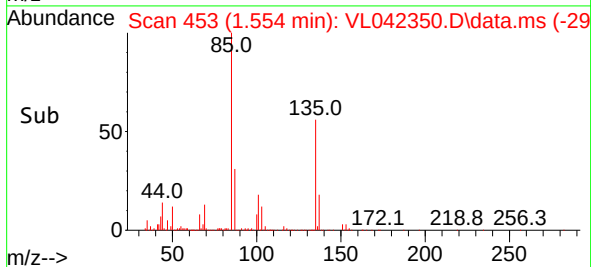
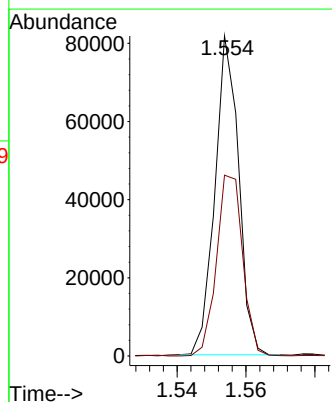
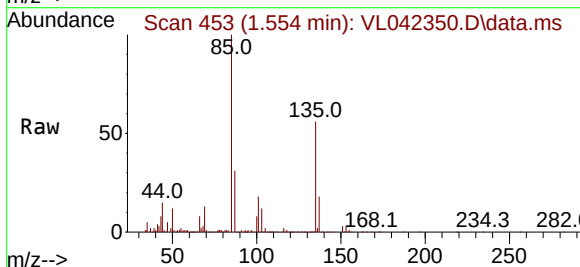
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

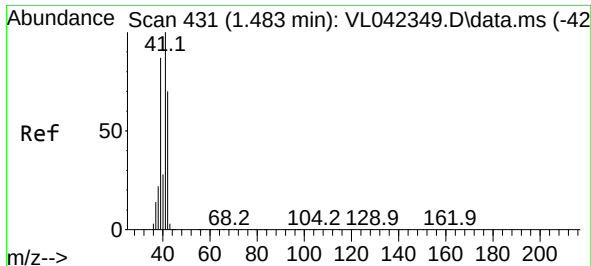
Tgt Ion: 64 Resp: 6889
Ion Ratio Lower Upper
64 100
66 29.8 24.6 37.0



#8
Dichlorotetrafluoroethane
Concen: 2.084 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 85 Resp: 38955
Ion Ratio Lower Upper
85 100
135 63.3 52.2 78.2





#9

Propene

Concen: 1.978 ppbv

RT: 1.483 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

Instrument :

MSVOA_L

ClientSampleId :

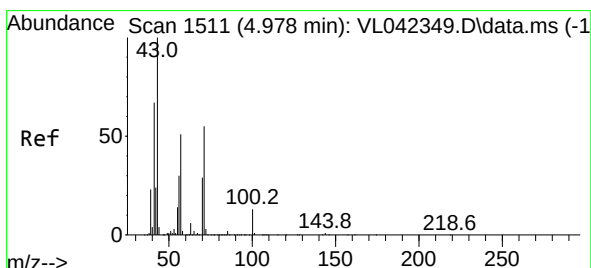
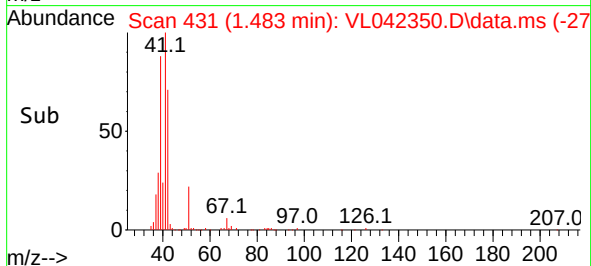
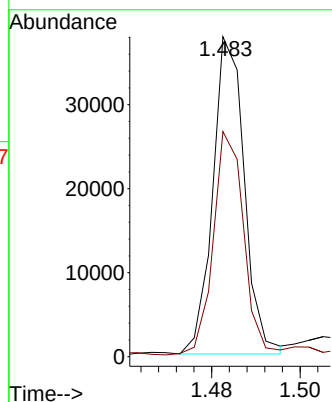
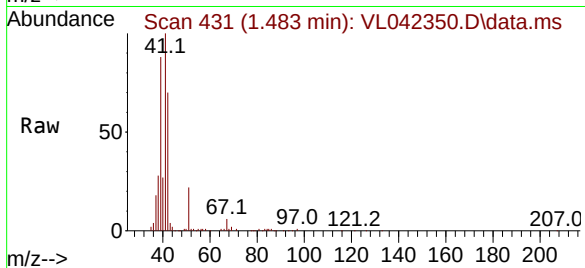
VSTDICC002

Tgt Ion: 41 Resp: 18671

Ion Ratio Lower Upper

41 100

42 72.7 56.2 84.4



#10

Heptane

Concen: 1.364 ppbv

RT: 4.978 min Scan# 1511

Delta R.T. -0.000 min

Lab File: VL042350.D

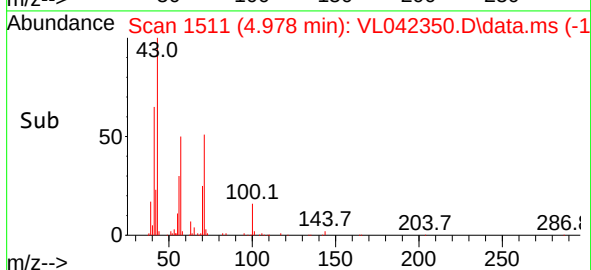
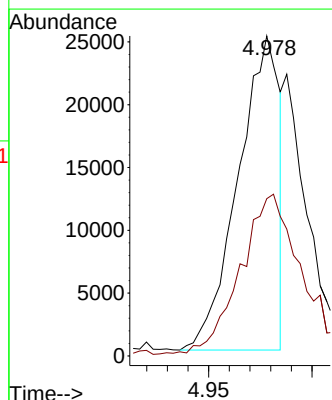
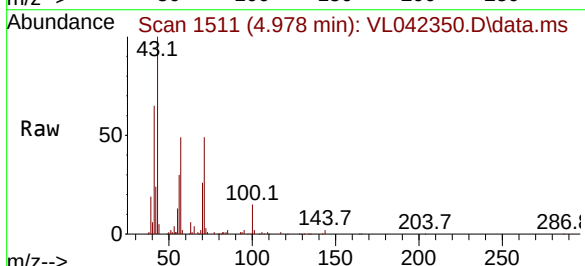
Acq: 17 Apr 2025 10:17

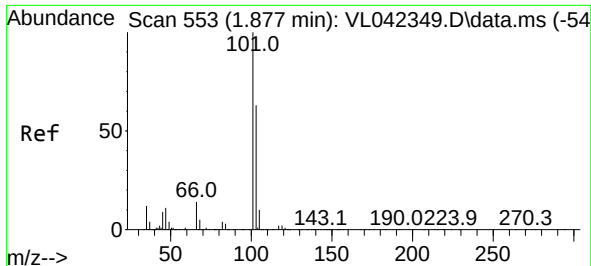
Tgt Ion: 43 Resp: 34658

Ion Ratio Lower Upper

43 100

57 75.9 39.9 59.9#

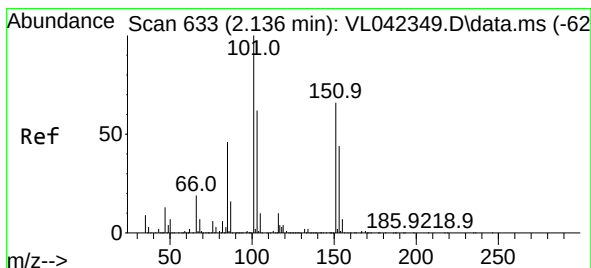
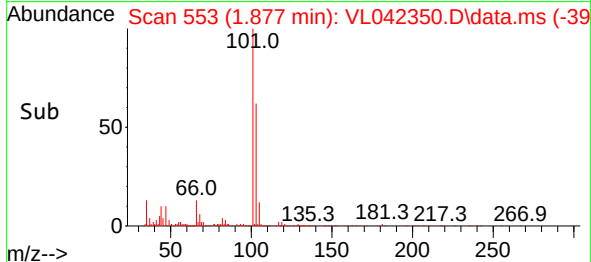
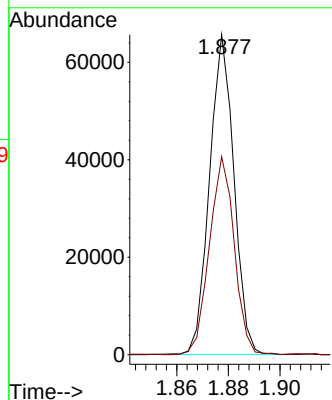
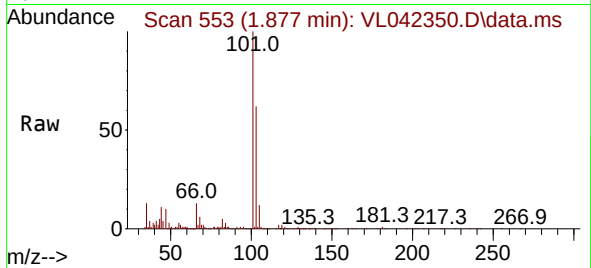




#11
 Trichlorofluoromethane
 Concen: 2.079 ppbv
 RT: 1.877 min Scan# 553
 Delta R.T. -0.000 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

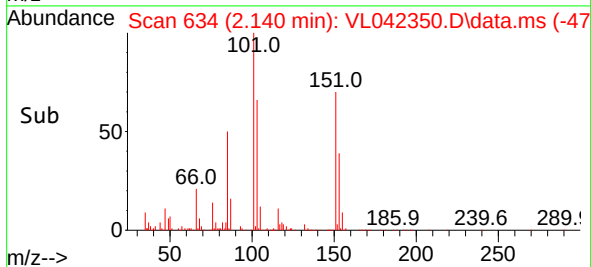
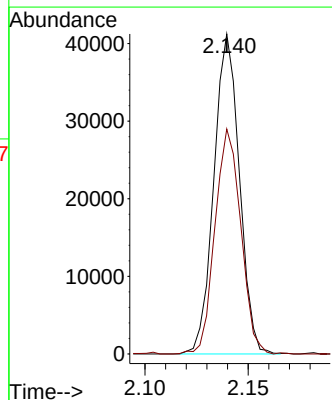
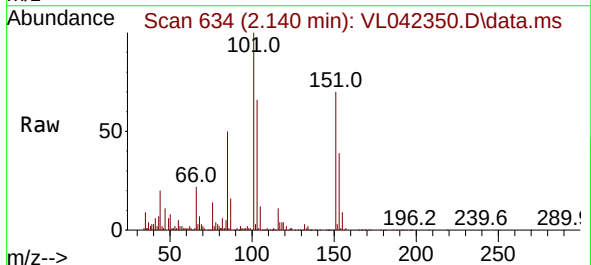
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

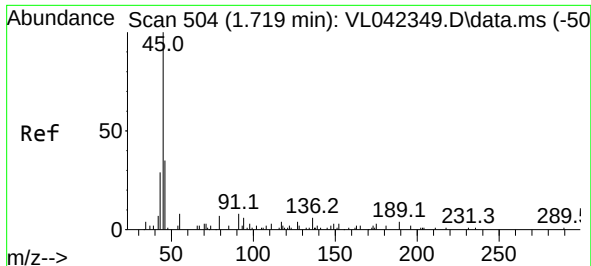
Tgt Ion:101 Resp: 43035
 Ion Ratio Lower Upper
 101 100
 103 61.9 50.1 75.1



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 2.092 ppbv
 RT: 2.140 min Scan# 634
 Delta R.T. 0.003 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

Tgt Ion:101 Resp: 35415
 Ion Ratio Lower Upper
 101 100
 151 71.5 57.0 85.6

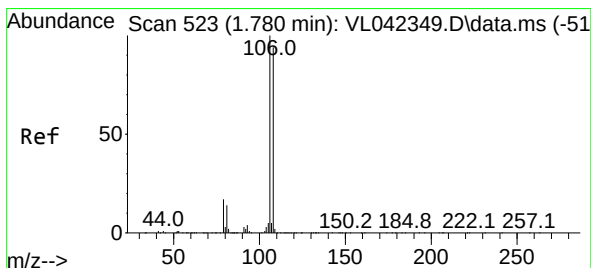
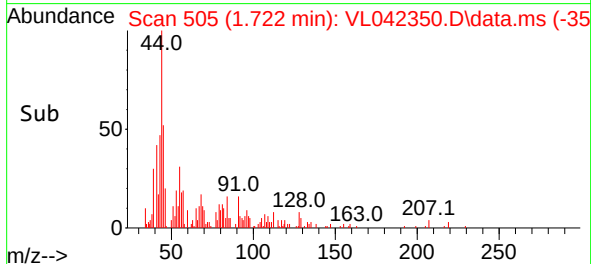
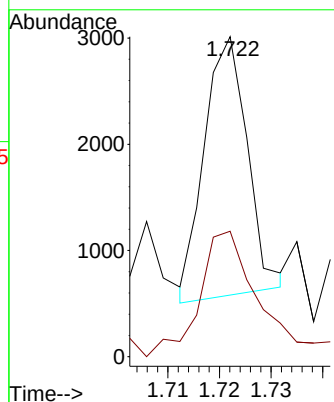
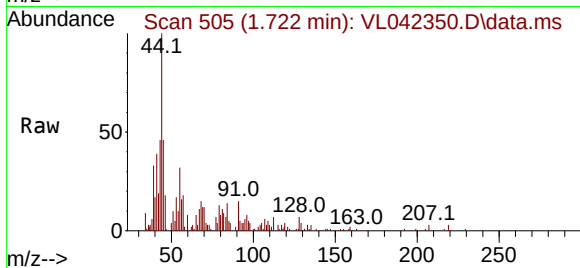




#13
Ethanol
Concen: 1.837 ppbv
RT: 1.722 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

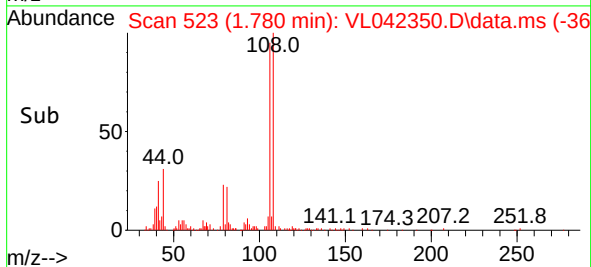
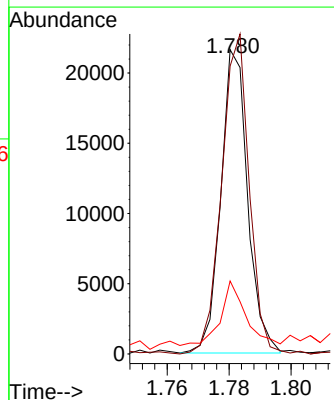
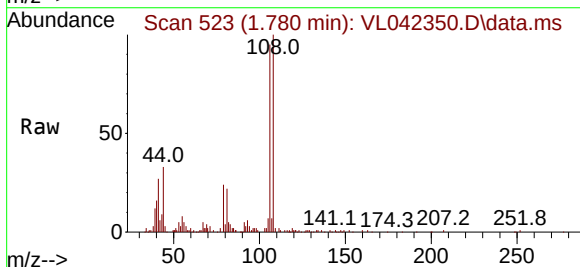
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC002

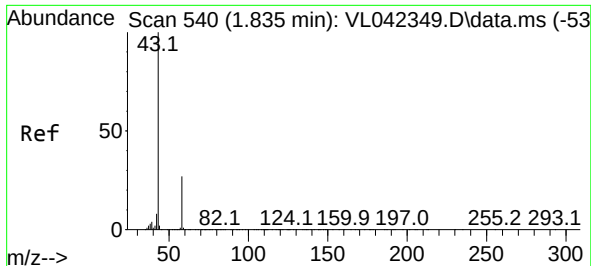
Tgt Ion: 45 Resp: 1417
Ion Ratio Lower Upper
45 100
46 84.1 21.9 87.7



#14
Bromoethene
Concen: 2.045 ppbv
RT: 1.780 min Scan# 523
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 108 Resp: 13049
Ion Ratio Lower Upper
108 100
106 110.2 85.9 128.9
79 34.0 13.9 20.9#

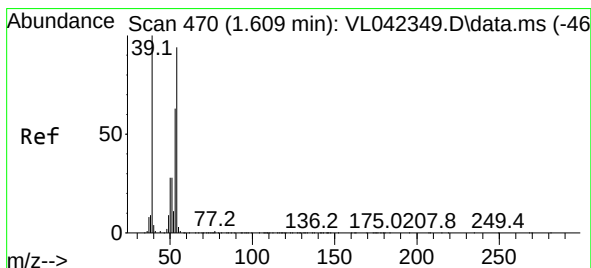
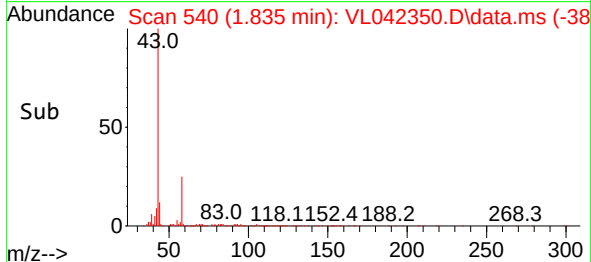
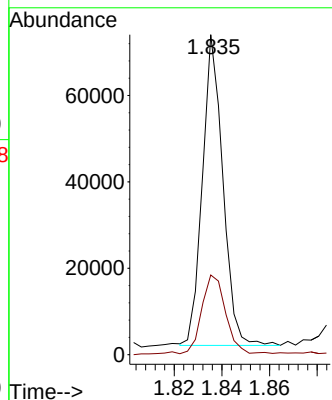
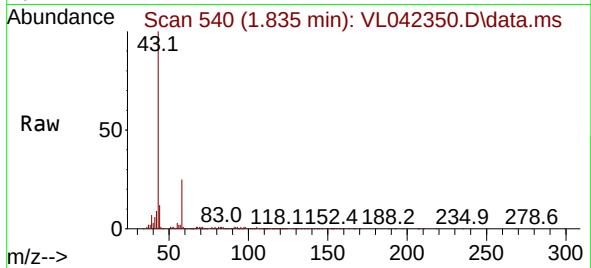




#15
Acetone
Concen: 2.129 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

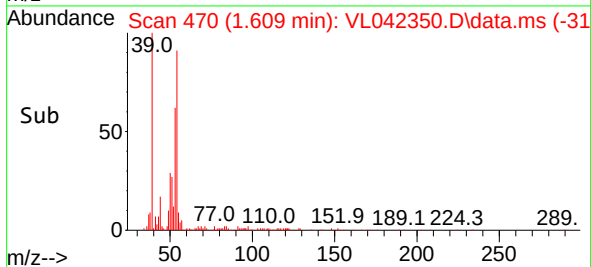
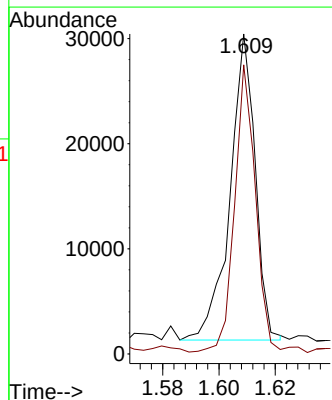
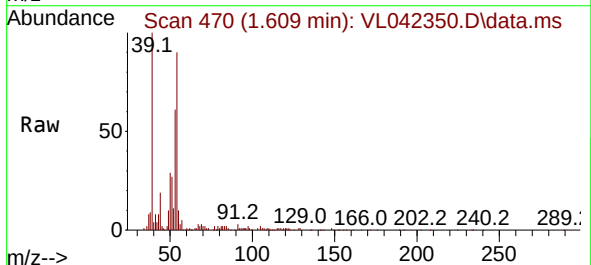
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

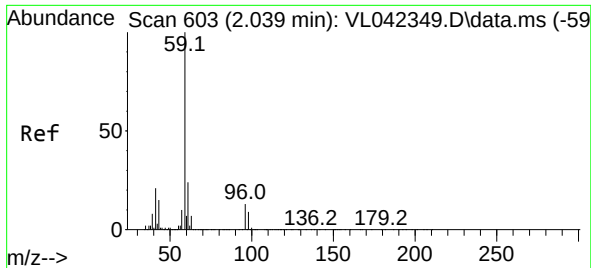
Tgt Ion: 43 Resp: 42949
Ion Ratio Lower Upper
43 100
58 31.4 22.4 33.6



#16
1,3-Butadiene
Concen: 1.912 ppbv
RT: 1.609 min Scan# 470
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 39 Resp: 18110
Ion Ratio Lower Upper
39 100
54 77.2 64.9 97.3

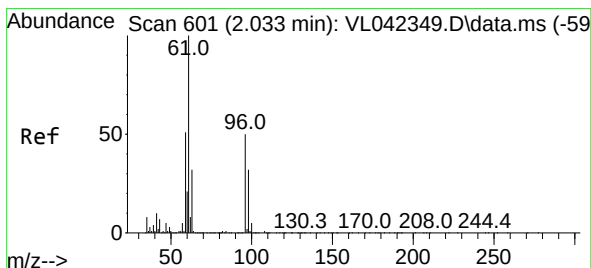
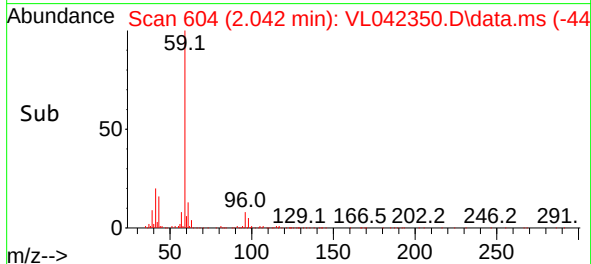
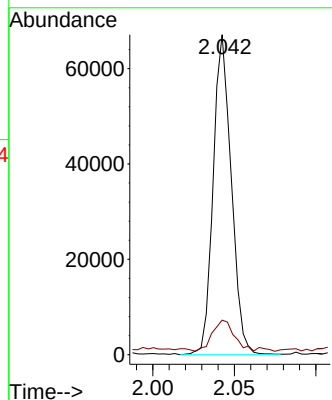
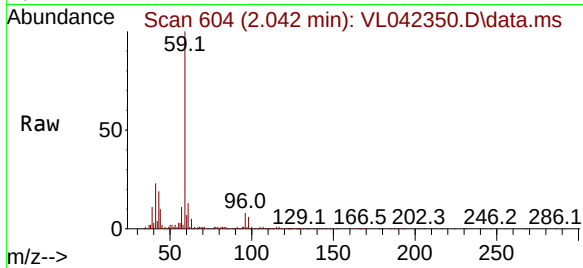




#17
tert-Butyl alcohol
Concen: 2.074 ppbv
RT: 2.042 min Scan# 603
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

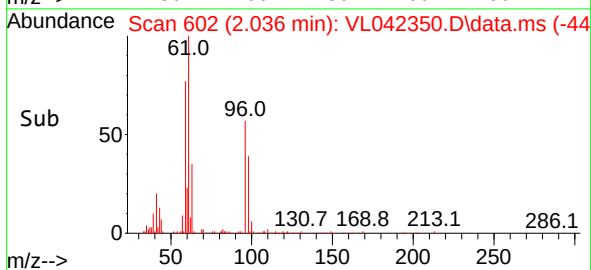
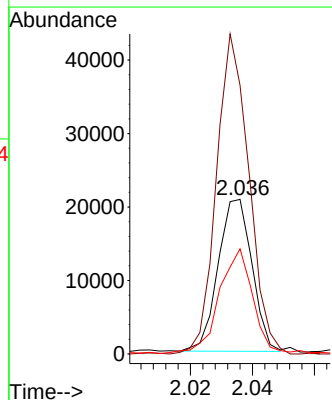
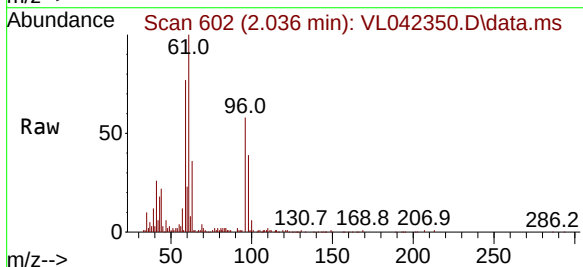
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

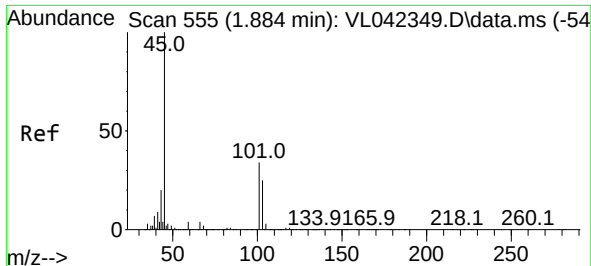
Tgt Ion: 59 Resp: 51829
Ion Ratio Lower Upper
59 100
57 13.2 8.7 13.1#



#18
1,1-Dichloroethene
Concen: 1.928 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 96 Resp: 15690
Ion Ratio Lower Upper
96 100
61 176.1 160.2 240.2
98 67.2 51.0 76.4

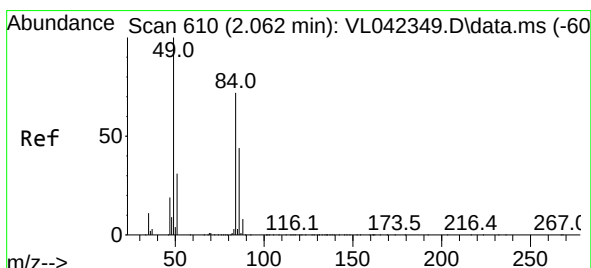
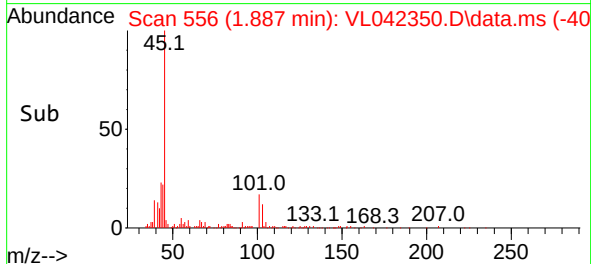
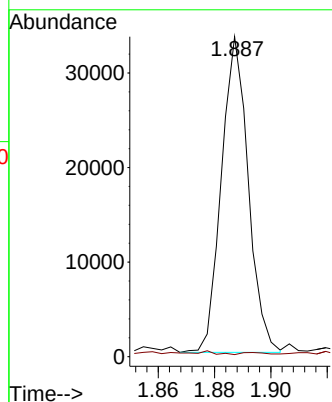
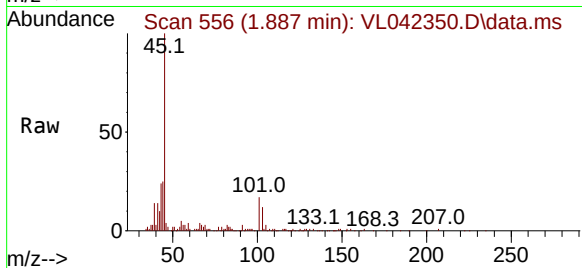




#19
Isopropyl Alcohol
Concen: 1.973 ppbv
RT: 1.887 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

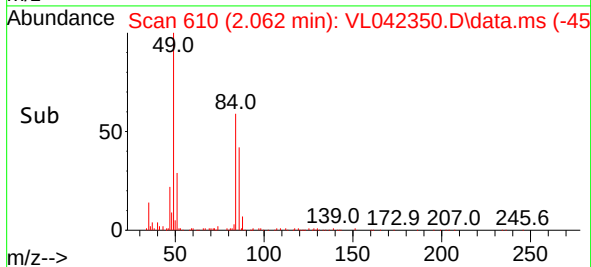
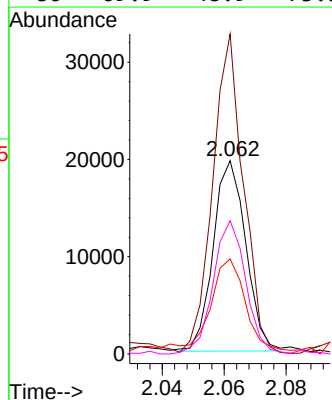
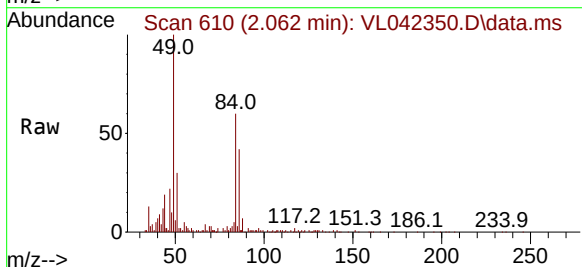
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

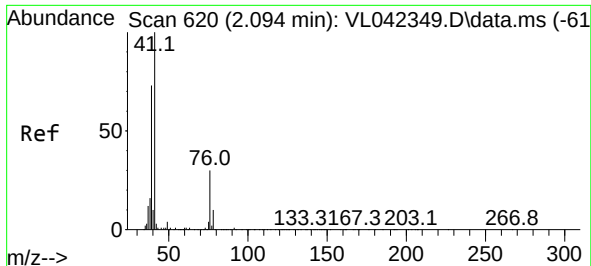
Tgt Ion: 45 Resp: 22106
Ion Ratio Lower Upper
45 100
58 3.6 34.5 51.7#



#20
Methylene Chloride
Concen: 1.814 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 84 Resp: 14329
Ion Ratio Lower Upper
84 100
49 169.1 111.6 167.4#
51 47.9 35.1 52.7
86 69.9 48.9 73.3

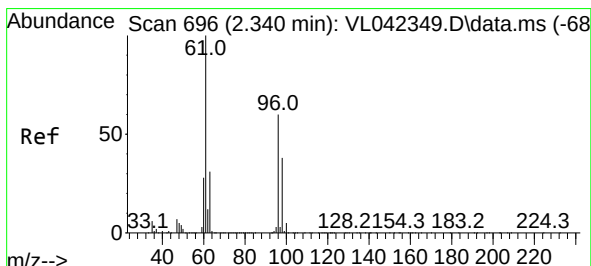
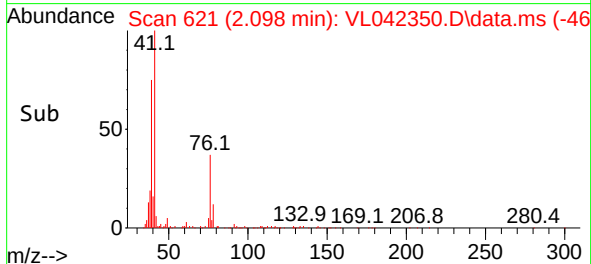
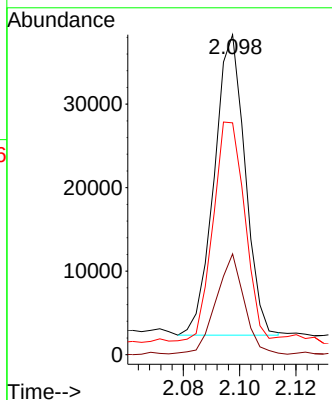
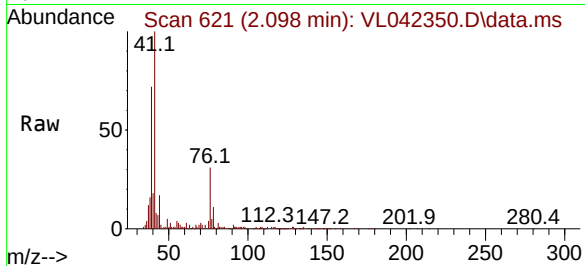




#21
 Allyl Chloride
 Concen: 1.963 ppbv
 RT: 2.098 min Scan# 61
 Delta R.T. 0.003 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

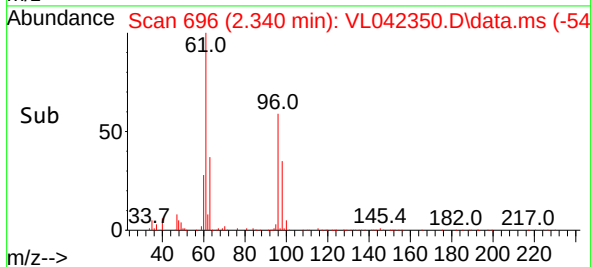
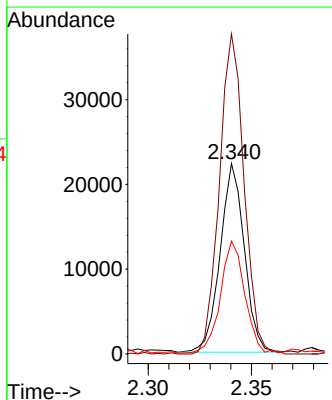
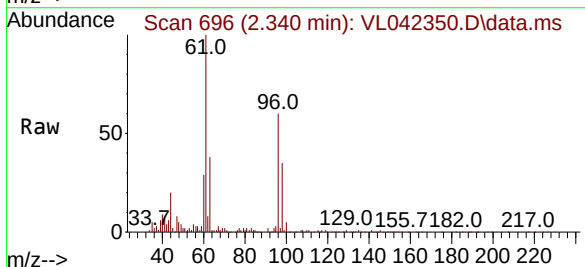
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

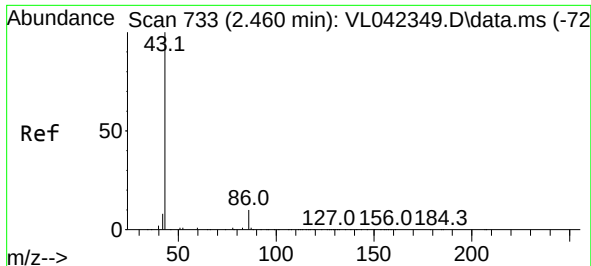
Tgt Ion: 41 Resp: 27340
 Ion Ratio Lower Upper
 41 100
 76 31.9 24.8 37.2
 39 81.2 60.6 90.8



#22
 trans-1,2-Dichloroethene
 Concen: 2.015 ppbv
 RT: 2.340 min Scan# 696
 Delta R.T. -0.000 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

Tgt Ion: 96 Resp: 18142
 Ion Ratio Lower Upper
 96 100
 61 169.6 133.7 200.5
 98 59.3 50.3 75.5

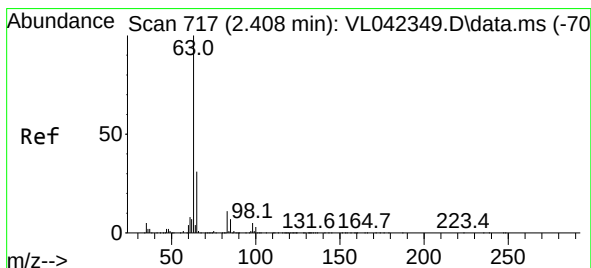
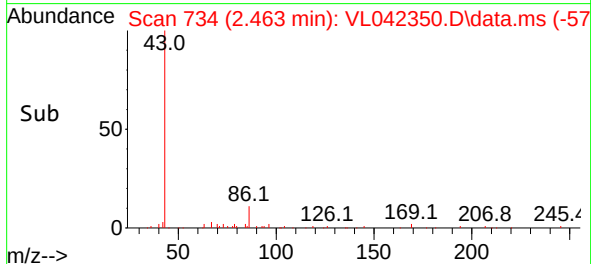
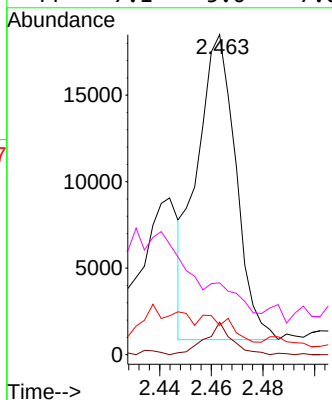
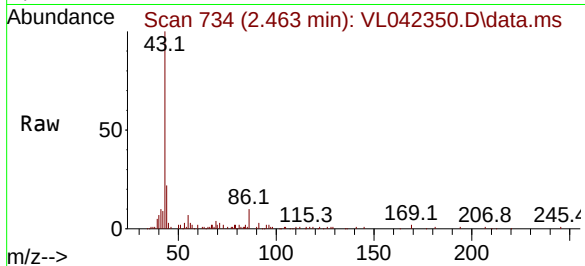




#23
 Vinyl Acetate
 Concen: 2.260 ppbv
 RT: 2.463 min Scan# 718
 Delta R.T. 0.003 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

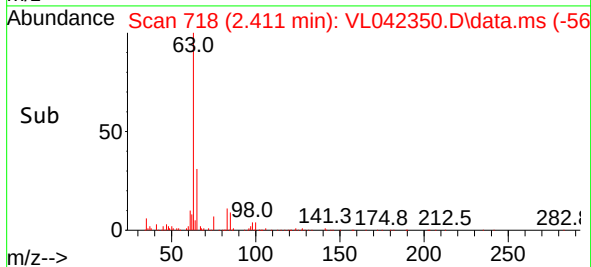
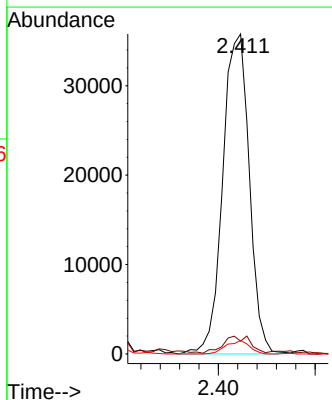
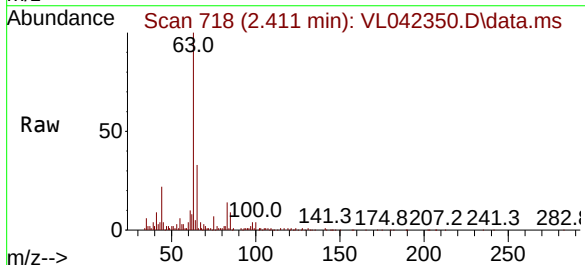
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002

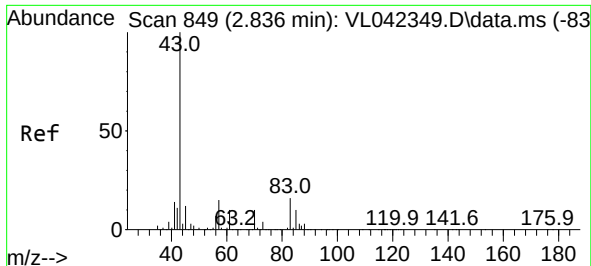
Tgt Ion:	43	Resp:	18454
Ion	Ratio	Lower	Upper
43	100		
86	10.2	6.5	9.7#
42	3.7	7.8	11.8#
44	7.1	5.0	7.6



#24
 1,1-Dichloroethane
 Concen: 1.993 ppbv
 RT: 2.411 min Scan# 718
 Delta R.T. 0.003 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

Tgt Ion:	63	Resp:	34077
Ion	Ratio	Lower	Upper
63	100		
98	3.1	2.3	6.8
100	4.2	1.6	4.8



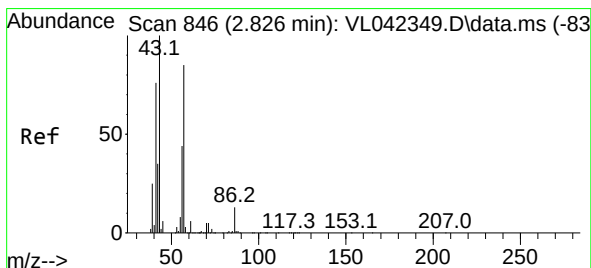
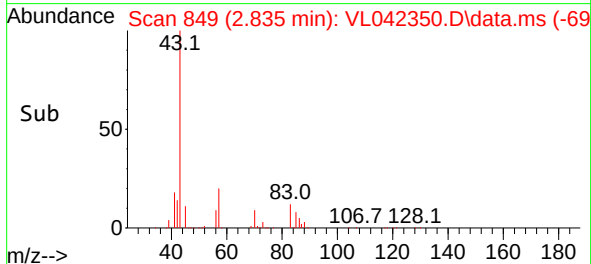
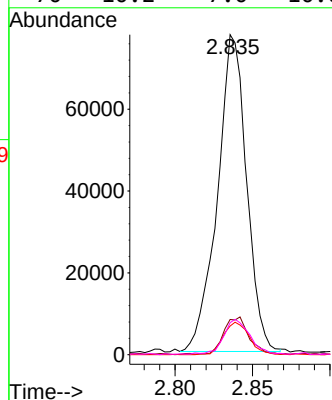
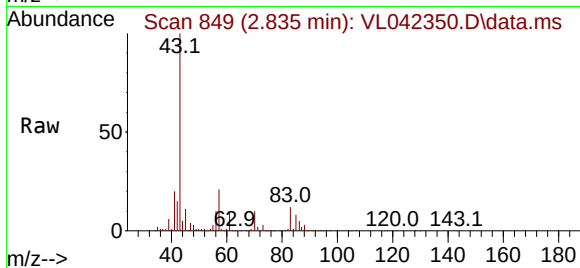


#25
Ethyl Acetate
Concen: 2.040 ppbv
RT: 2.835 min Scan# 849
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

Tgt Ion: 43 Resp: 101467

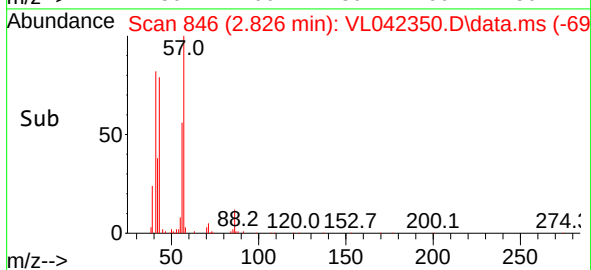
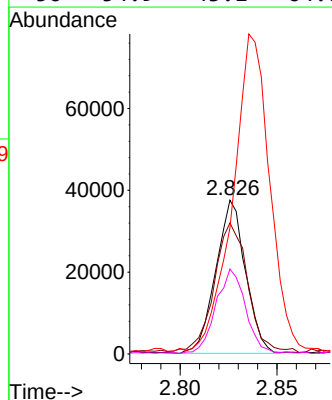
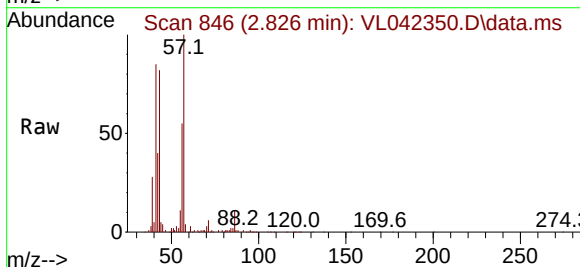
Ion	Ratio	Lower	Upper
43	100		
45	10.4	8.3	12.5
61	9.2	7.3	10.9
70	10.2	7.0	10.6

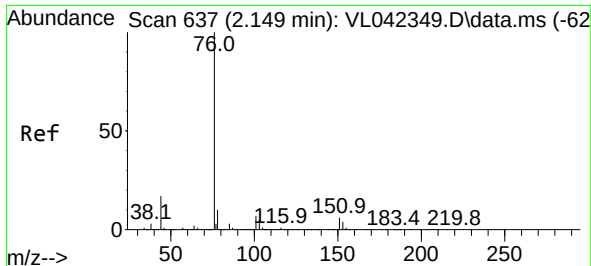


#26
Hexane
Concen: 1.990 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 57 Resp: 40046

Ion	Ratio	Lower	Upper
57	100		
41	94.1	77.9	116.9
43	260.7	208.4	312.6
56	54.9	43.1	64.7

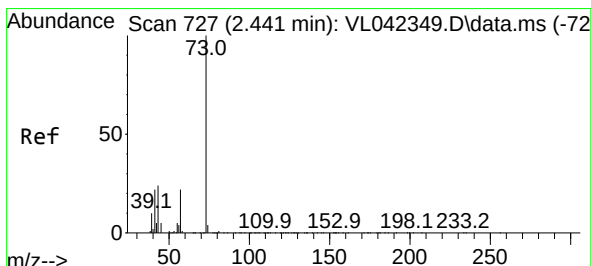
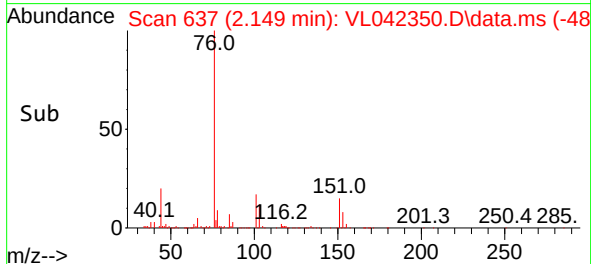
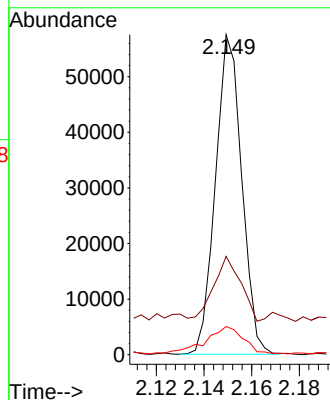
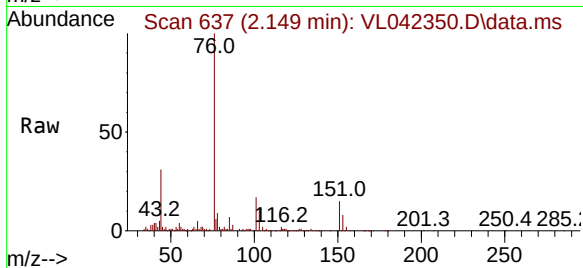




#27
Carbon Disulfide
Concen: 2.041 ppbv
RT: 2.149 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

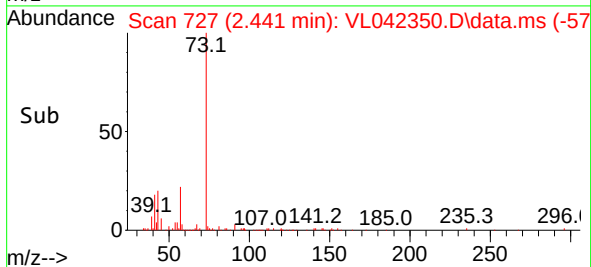
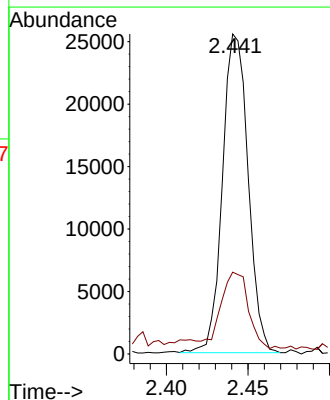
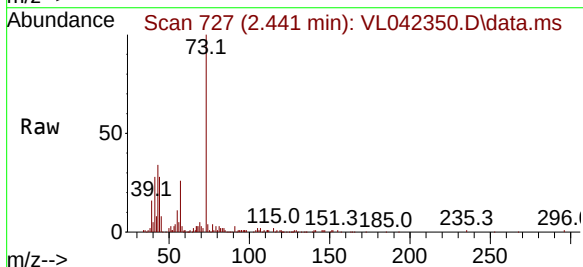
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

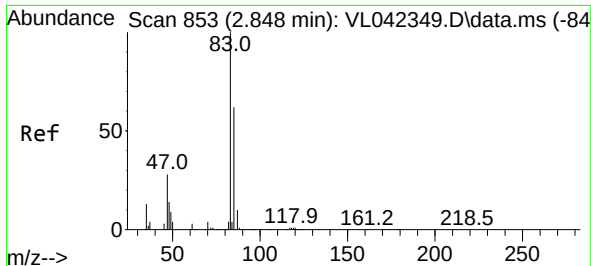
Tgt Ion: 76 Resp: 43975
Ion Ratio Lower Upper
76 100
44 44.3 15.5 23.3#
78 13.6 9.3 13.9



#28
Methyl tert-Butyl Ether
Concen: 2.116 ppbv
RT: 2.441 min Scan# 727
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 73 Resp: 27905
Ion Ratio Lower Upper
73 100
57 28.1 21.3 31.9





#29

Chloroform

Concen: 2.072 ppbv

RT: 2.848 min Scan# 81

Delta R.T. -0.000 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

Instrument :

MSVOA_L

ClientSampleId :

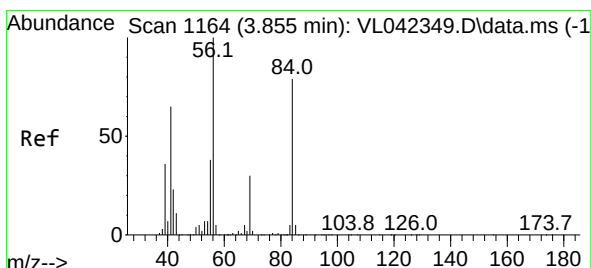
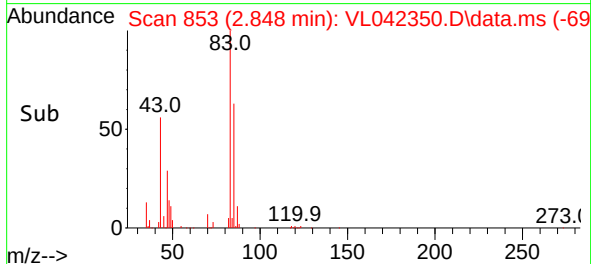
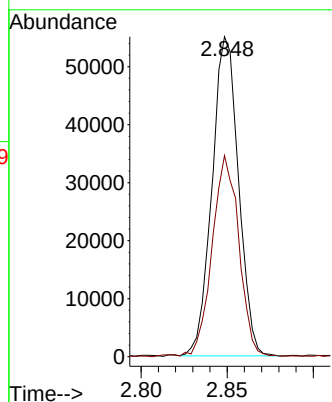
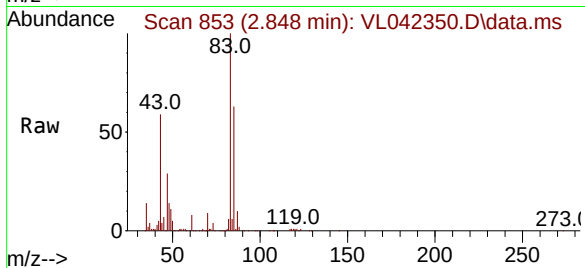
VSTDICC002

Tgt Ion: 83 Resp: 58946

Ion Ratio Lower Upper

83 100

85 62.9 50.0 75.0



#30

Cyclohexane

Concen: 2.048 ppbv

RT: 3.858 min Scan# 1165

Delta R.T. 0.003 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

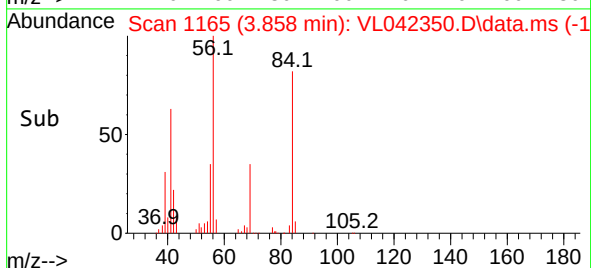
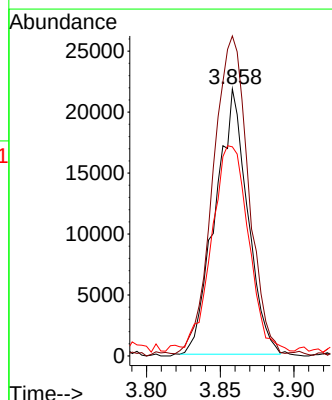
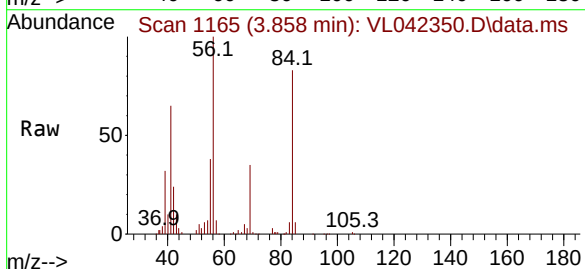
Tgt Ion: 84 Resp: 33195

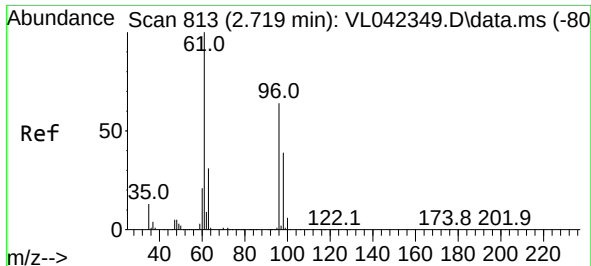
Ion Ratio Lower Upper

84 100

56 134.5 101.0 151.4

41 88.1 67.4 101.0

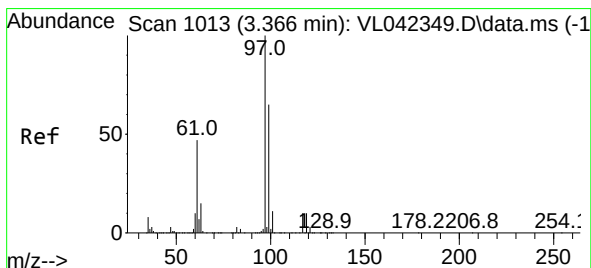
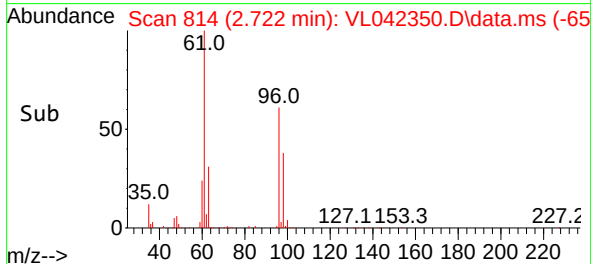
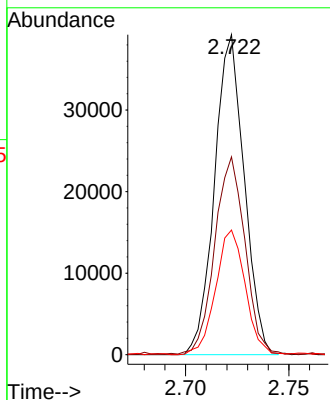
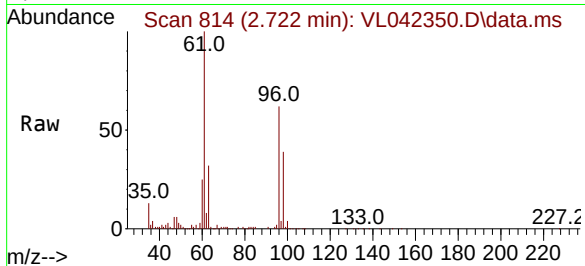




#31
 cis-1,2-Dichloroethene
 Concen: 2.051 ppbv
 RT: 2.722 min Scan# 813
 Delta R.T. 0.003 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

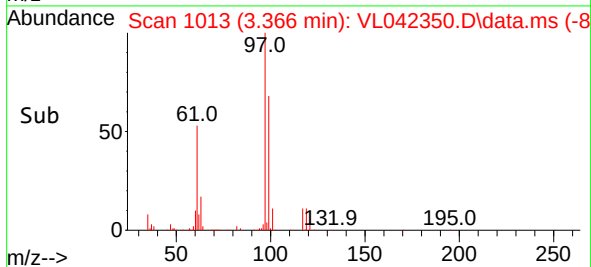
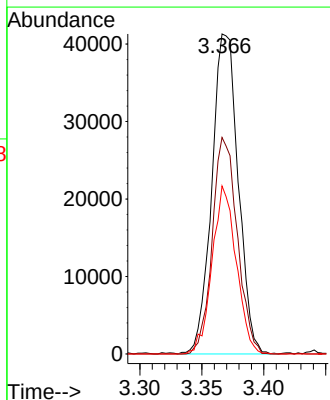
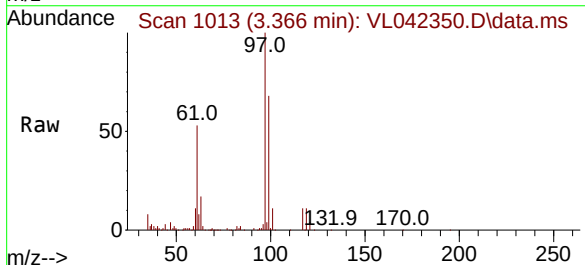
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

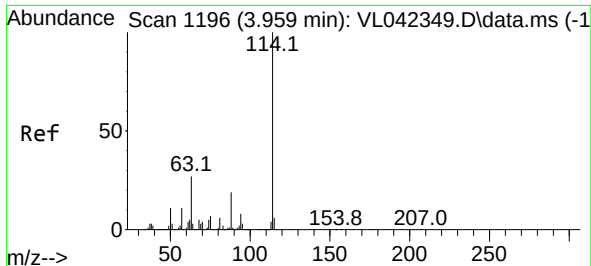
Tgt Ion: 61 Resp: 39249
 Ion Ratio Lower Upper
 61 100
 96 61.6 50.8 76.2
 98 39.0 30.9 46.3



#32
 1,1,1-Trichloroethane
 Concen: 2.014 ppbv
 RT: 3.366 min Scan# 1013
 Delta R.T. -0.000 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

Tgt Ion: 97 Resp: 61442
 Ion Ratio Lower Upper
 97 100
 99 64.0 51.0 76.4
 61 48.0 38.8 58.2

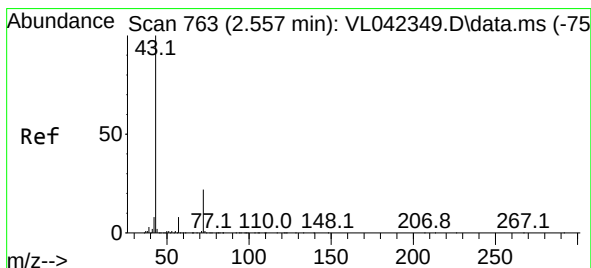
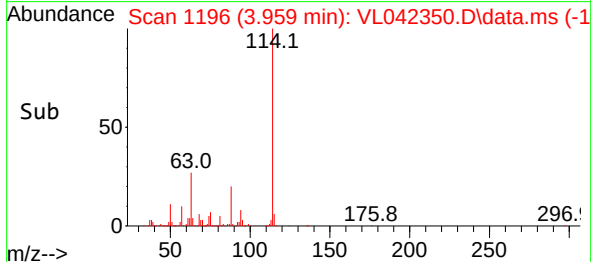
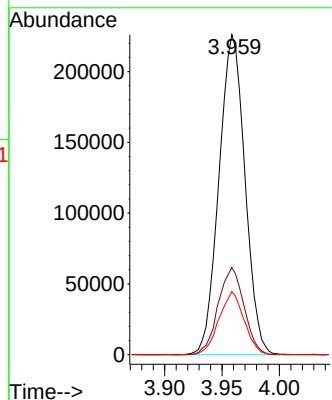
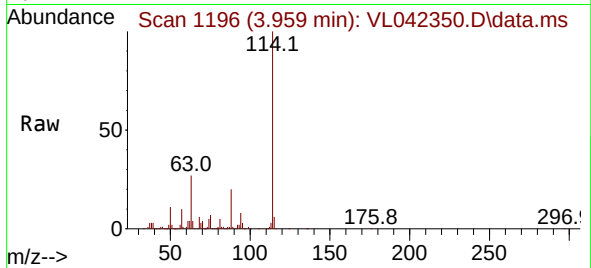




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

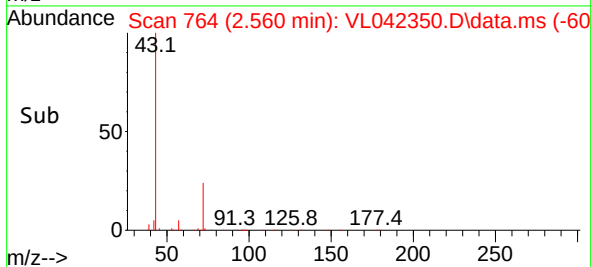
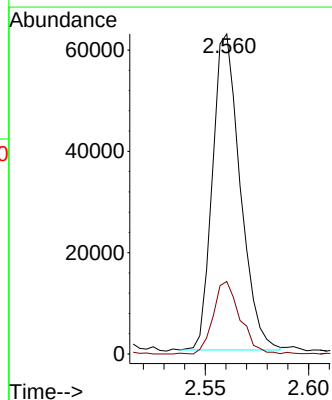
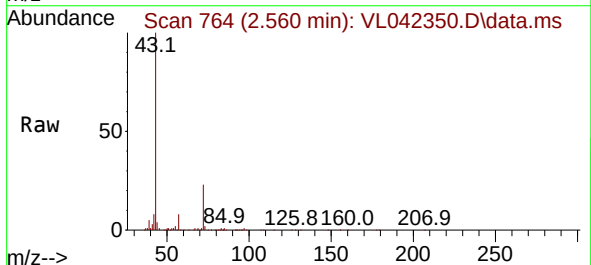
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

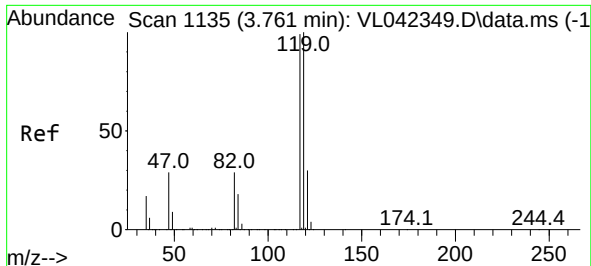
Tgt Ion:114 Resp: 355918
Ion Ratio Lower Upper
114 100
63 27.1 21.8 32.6
88 19.0 15.5 23.3



#34
2-Butanone
Concen: 2.069 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 43 Resp: 58249
Ion Ratio Lower Upper
43 100
72 22.5 18.2 27.2

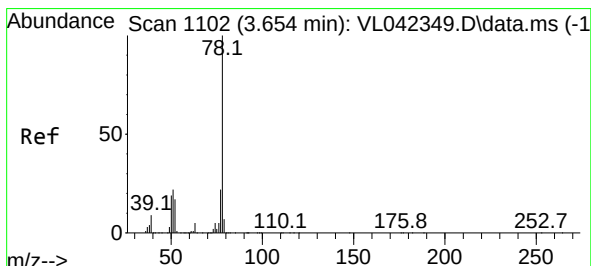
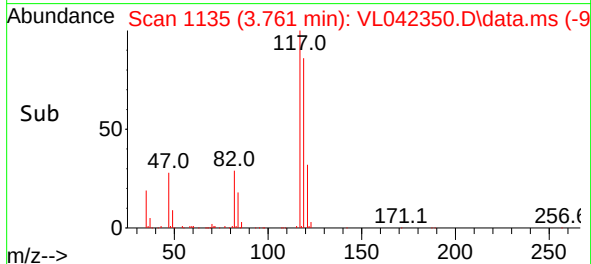
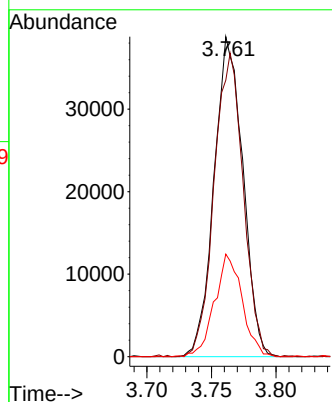
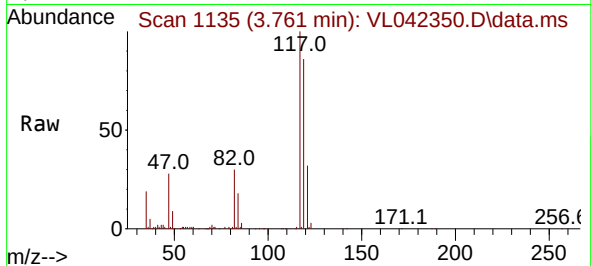




#35
Carbon Tetrachloride
Concen: 1.872 ppbv
RT: 3.761 min Scan# 1135
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

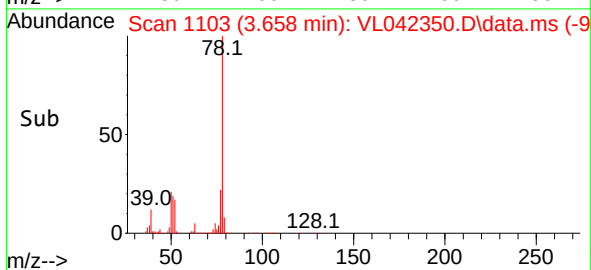
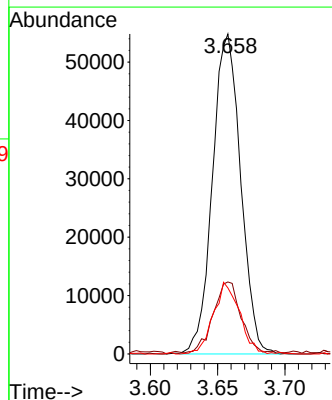
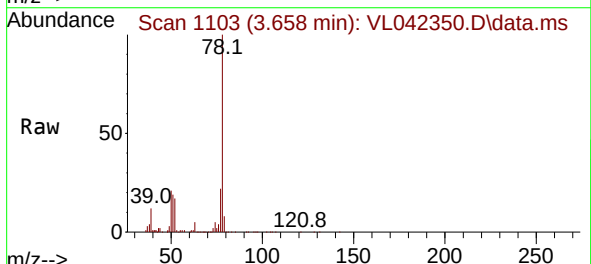
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

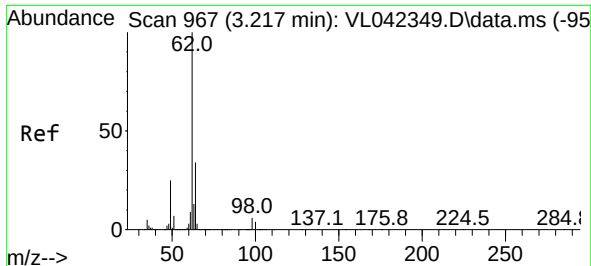
Tgt Ion:117 Resp: 60291
Ion Ratio Lower Upper
117 100
119 86.4 80.5 120.7
121 32.1 24.2 36.2



#36
Benzene
Concen: 2.079 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 78 Resp: 79814
Ion Ratio Lower Upper
78 100
77 22.0 17.4 26.0
50 20.6 15.5 23.3

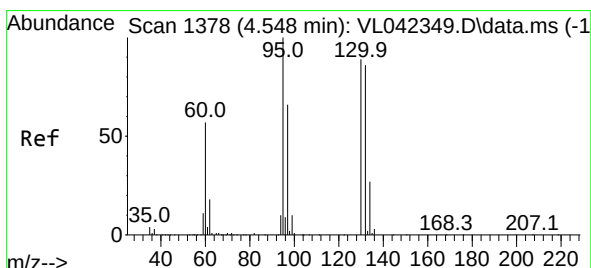
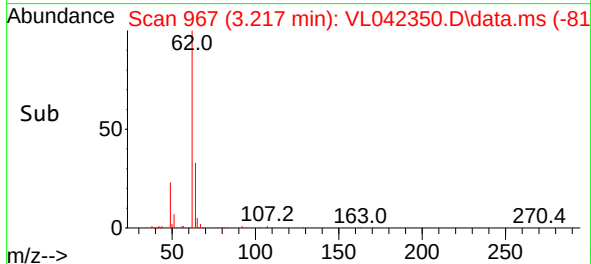
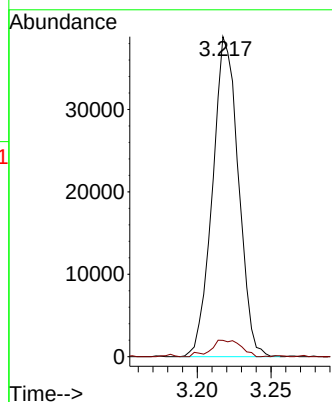
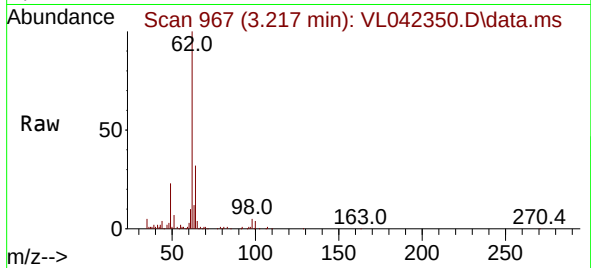




#37
1,2-Dichloroethane
Concen: 2.057 ppbv
RT: 3.217 min Scan# 967
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

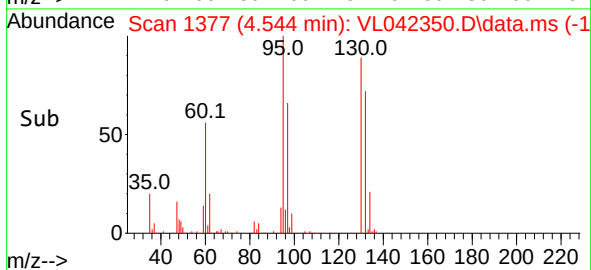
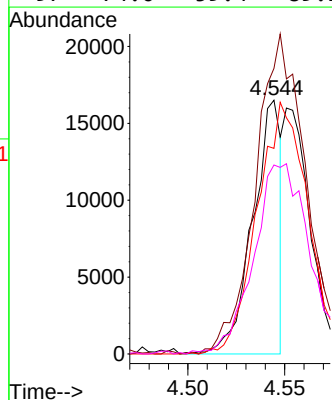
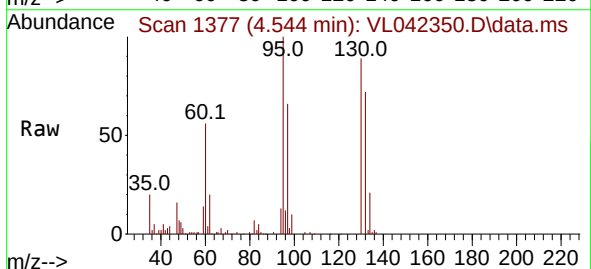
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

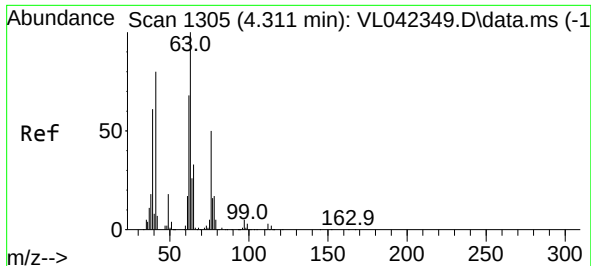
Tgt Ion: 62 Resp: 47398
Ion Ratio Lower Upper
62 100
98 6.4 5.1 7.7



#38
Trichloroethene
Concen: 0.986 ppbv
RT: 4.544 min Scan# 1377
Delta R.T. -0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:130 Resp: 16602
Ion Ratio Lower Upper
130 100
95 112.6 89.8 134.6
132 81.1 77.7 116.5
97 74.0 59.4 89.2





#39

1,2-Dichloropropane

Concen: 2.012 ppbv

RT: 4.315 min Scan# 11

Delta R.T. 0.003 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

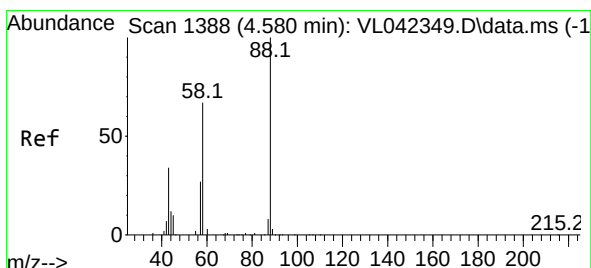
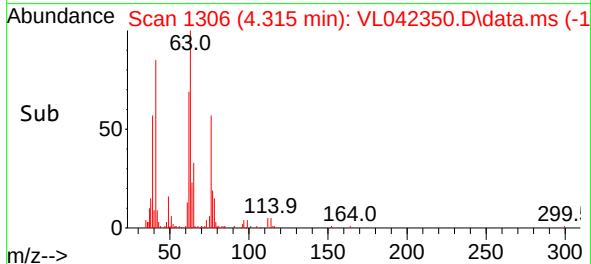
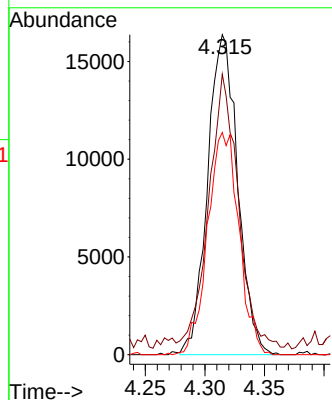
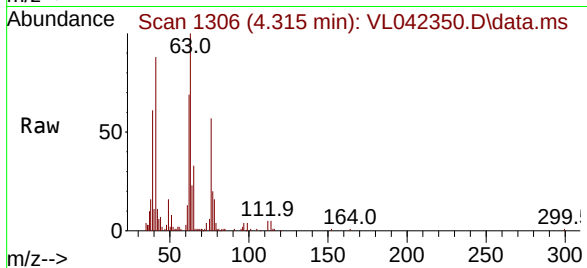
Tgt Ion: 63 Resp: 28806

Ion Ratio Lower Upper

63 100

41 85.2 64.2 96.2

62 69.4 54.3 81.5



#40

1,4-Dioxane

Concen: 2.067 ppbv

RT: 4.593 min Scan# 1392

Delta R.T. 0.013 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

Tgt Ion: 88 Resp: 16026

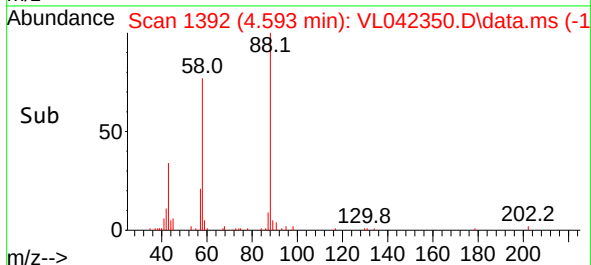
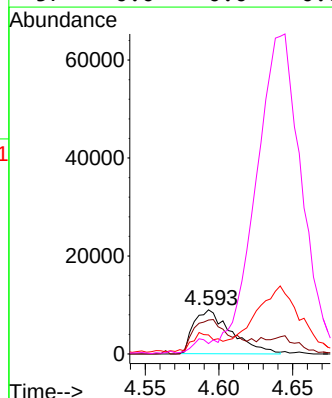
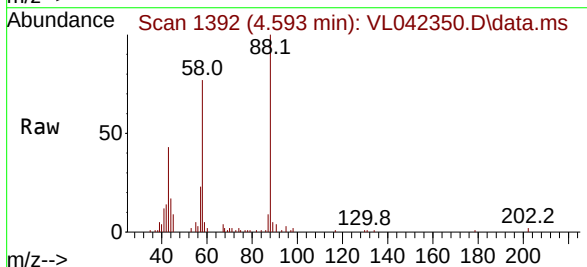
Ion Ratio Lower Upper

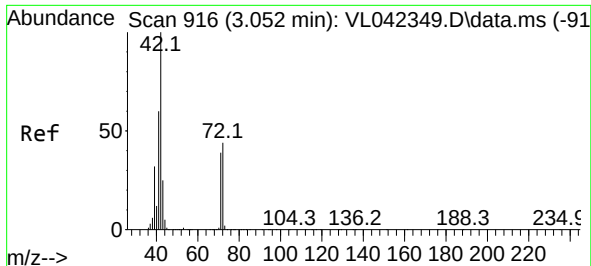
88 100

58 84.9 61.4 92.0

43 6.3 23.2 34.8#

57 0.0 0.0 0.0

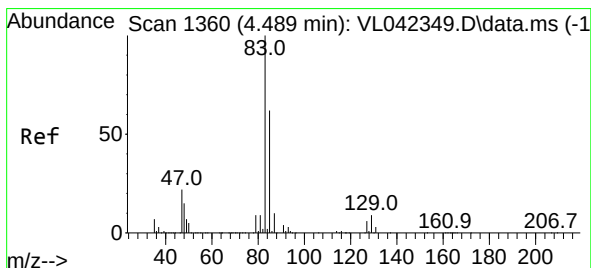
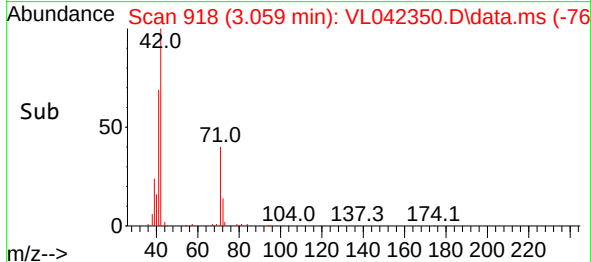
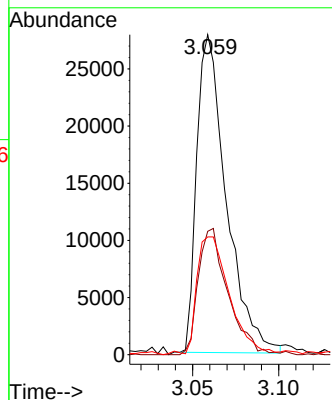
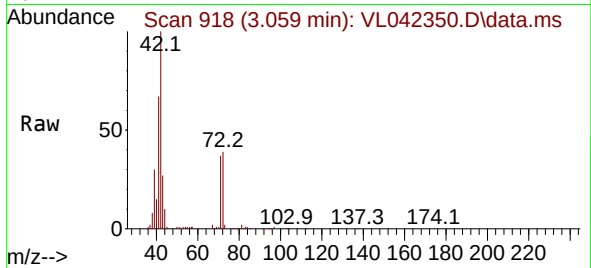




#41
Tetrahydrofuran
Concen: 2.047 ppbv
RT: 3.059 min Scan# 916
Delta R.T. 0.006 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

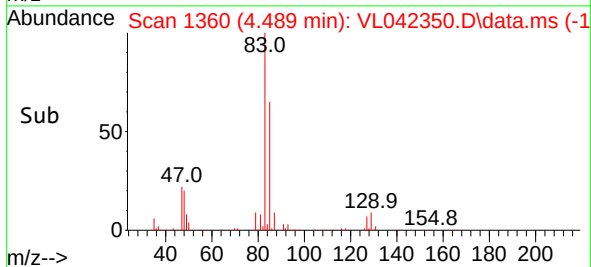
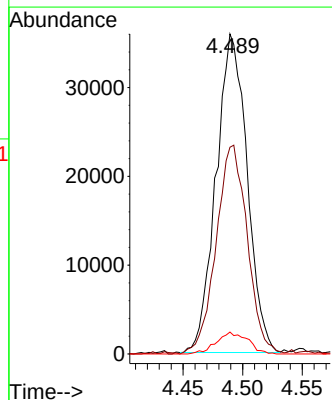
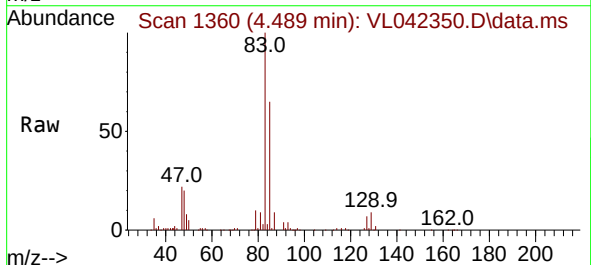
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

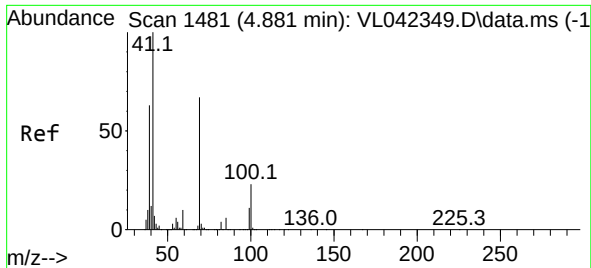
Tgt Ion: 42 Resp: 33298
Ion Ratio Lower Upper
42 100
72 39.9 32.3 48.5
71 41.5 31.4 47.2



#42
Bromodichloromethane
Concen: 2.025 ppbv
RT: 4.489 min Scan# 1360
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 83 Resp: 64941
Ion Ratio Lower Upper
83 100
85 64.9 49.7 74.5
127 6.9 5.1 7.7

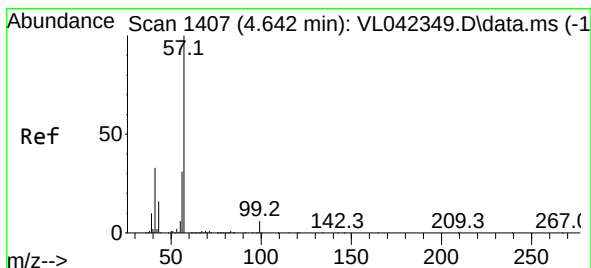
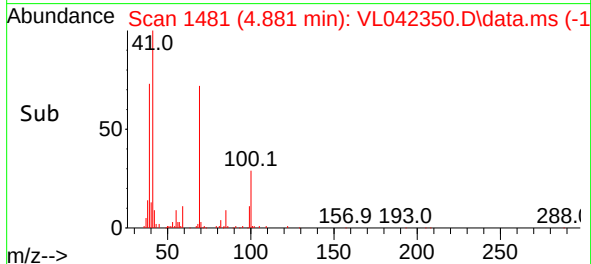
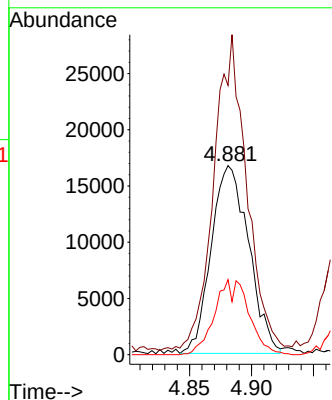
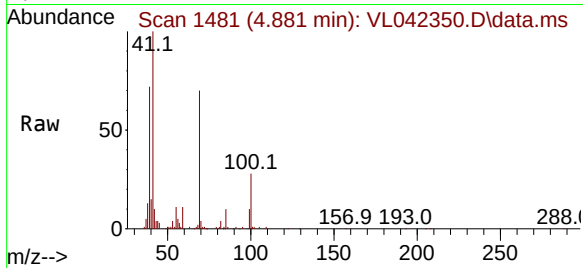




#43
Methyl Methacrylate
Concen: 2.046 ppbv
RT: 4.881 min Scan# 1481
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

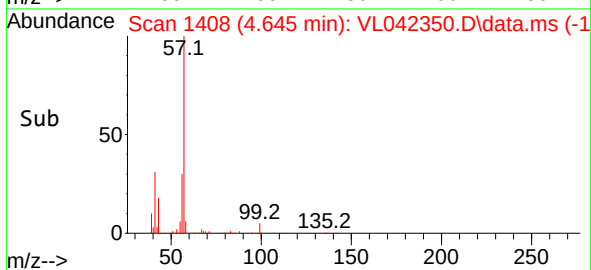
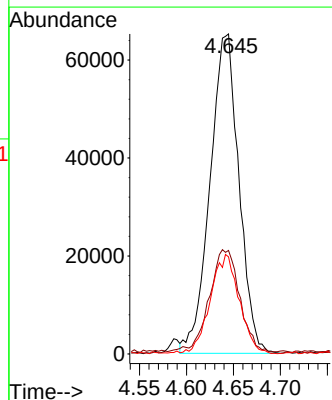
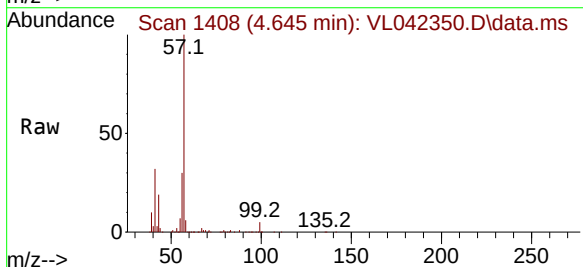
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

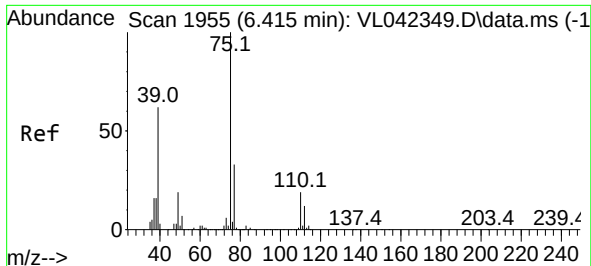
Tgt Ion: 69 Resp: 35256
Ion Ratio Lower Upper
69 100
41 144.4 118.6 177.8
100 36.5 28.2 42.2



#44
2,2,4-Trimethylpentane
Concen: 2.103 ppbv
RT: 4.645 min Scan# 1408
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 57 Resp: 139641
Ion Ratio Lower Upper
57 100
41 34.4 27.2 40.8
56 31.3 25.7 38.5

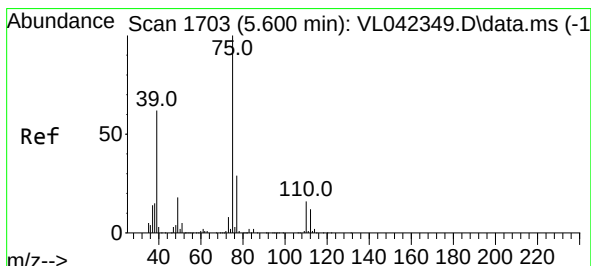
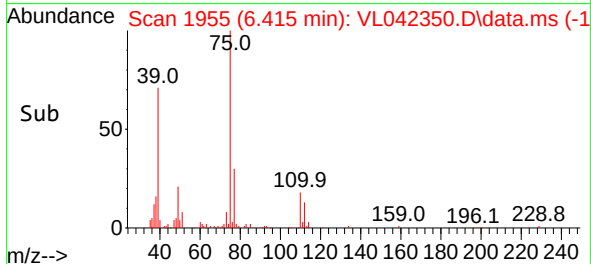
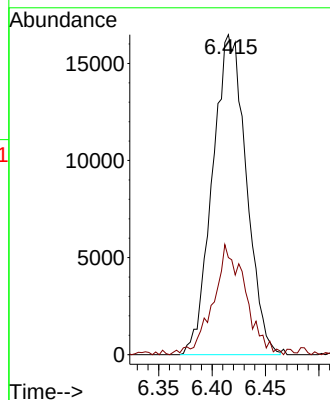
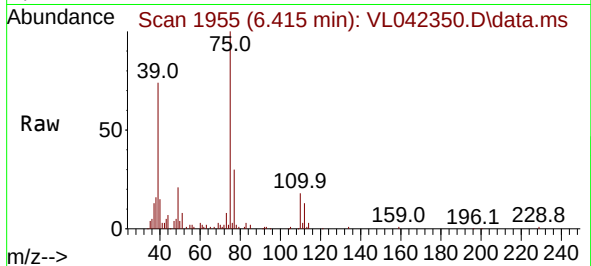




#45
 t-1,3-Dichloropropene
 Concen: 2.050 ppbv
 RT: 6.415 min Scan# 1955
 Delta R.T. -0.000 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

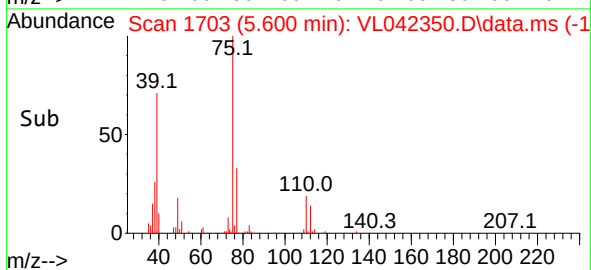
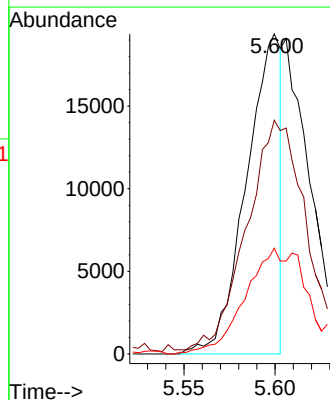
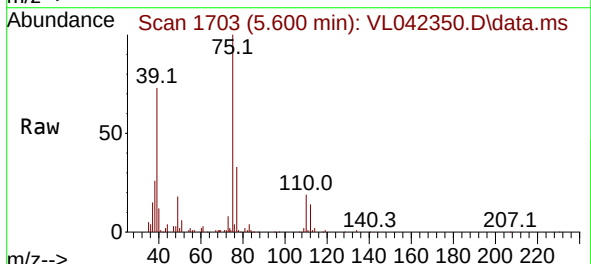
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002

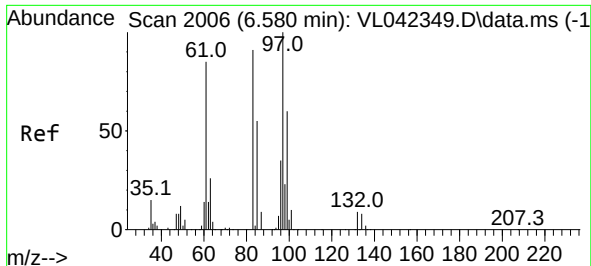
Tgt Ion: 75 Resp: 36265
 Ion Ratio Lower Upper
 75 100
 77 30.4 27.0 40.6



#46
 cis-1,3-Dichloropropene
 Concen: 1.183 ppbv
 RT: 5.600 min Scan# 1703
 Delta R.T. -0.000 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

Tgt Ion: 75 Resp: 25569
 Ion Ratio Lower Upper
 75 100
 39 71.8 50.0 75.0
 77 32.5 23.0 34.6





#47

1,1,2-Trichloroethane

Concen: 2.049 ppbv

RT: 6.590 min Scan# 2006

Delta R.T. 0.010 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

Tgt Ion: 97 Resp: 29879

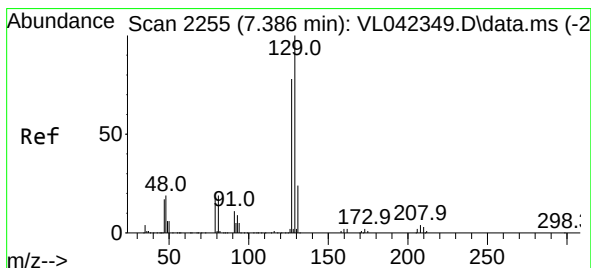
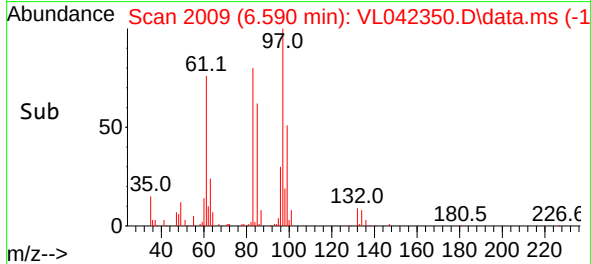
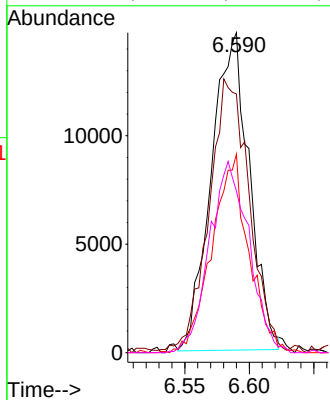
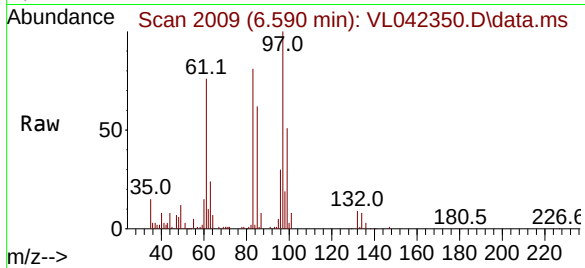
Ion Ratio Lower Upper

97 100

83 78.8 72.8 109.2

85 61.7 44.2 66.4

99 49.7 47.9 71.9



#48

Dibromochloromethane

Concen: 2.061 ppbv

RT: 7.389 min Scan# 2256

Delta R.T. 0.003 min

Lab File: VL042350.D

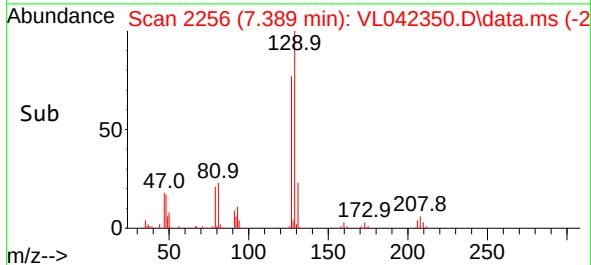
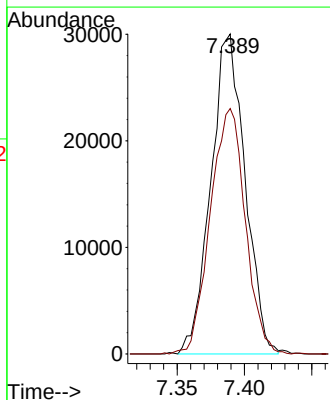
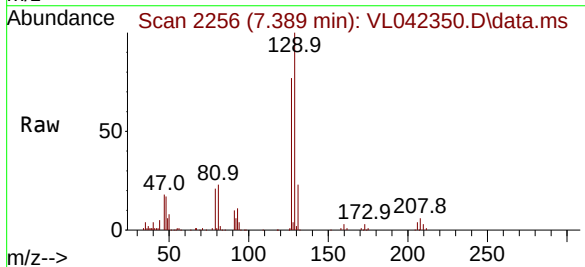
Acq: 17 Apr 2025 10:17

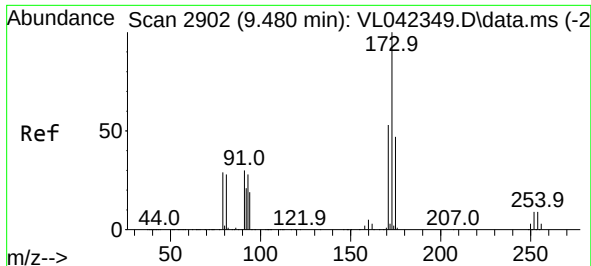
Tgt Ion: 129 Resp: 53069

Ion Ratio Lower Upper

129 100

127 78.4 39.1 117.3

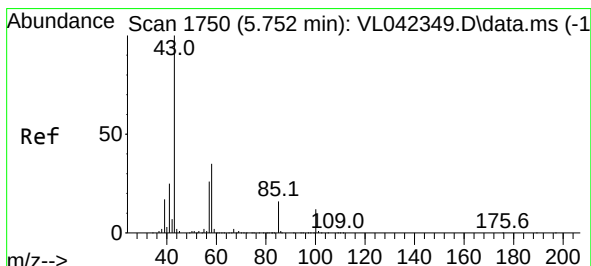
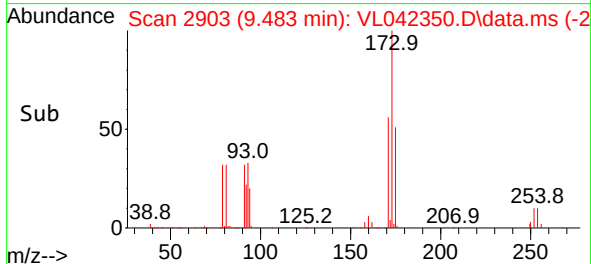
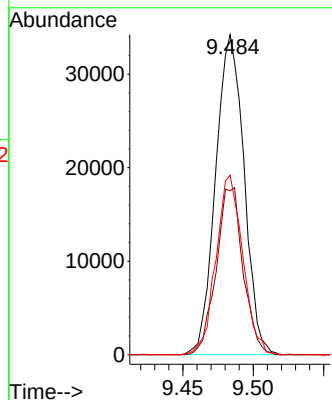
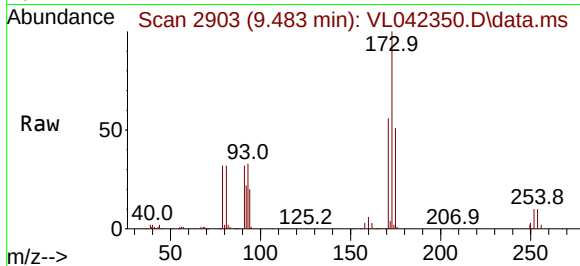




#49
Bromoform
Concen: 2.135 ppbv
RT: 9.483 min Scan# 2902
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

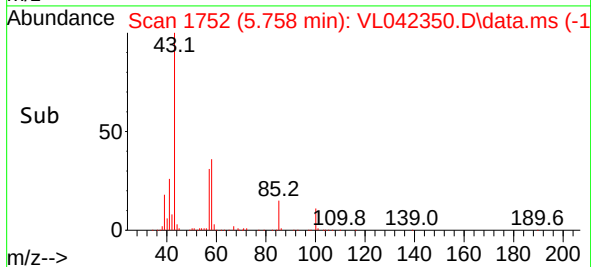
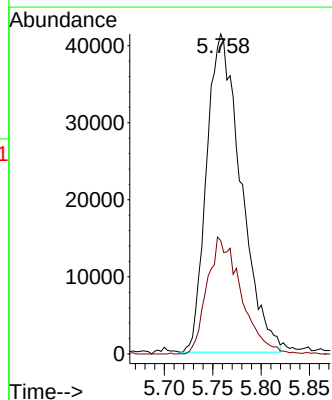
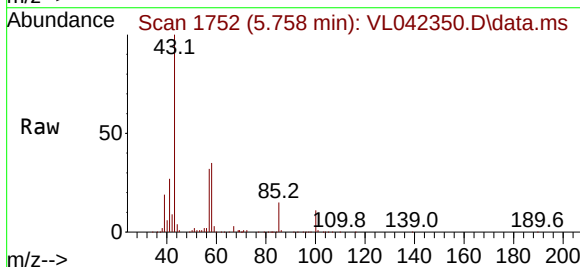
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

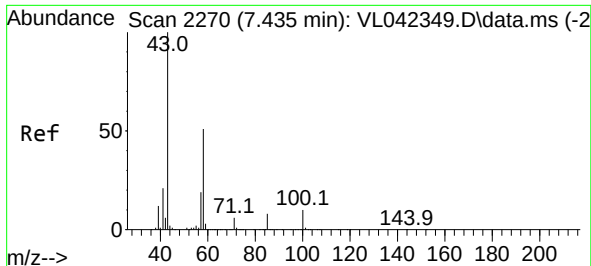
Tgt Ion:173 Resp: 48069
Ion Ratio Lower Upper
173 100
175 49.4 38.2 57.2
171 53.0 40.9 61.3



#50
4-Methyl-2-Pentanone
Concen: 2.180 ppbv
RT: 5.758 min Scan# 1752
Delta R.T. 0.006 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 43 Resp: 102182
Ion Ratio Lower Upper
43 100
58 36.3 28.6 43.0

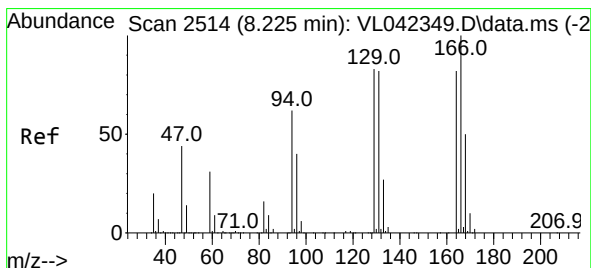
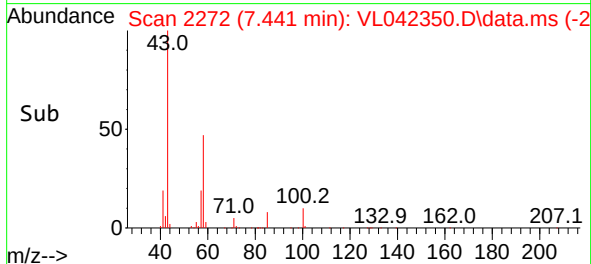
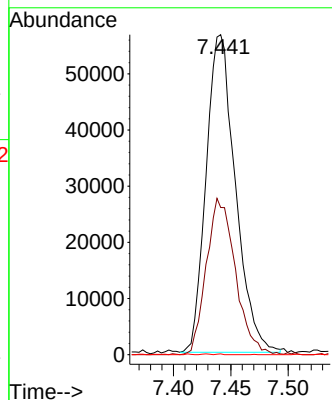
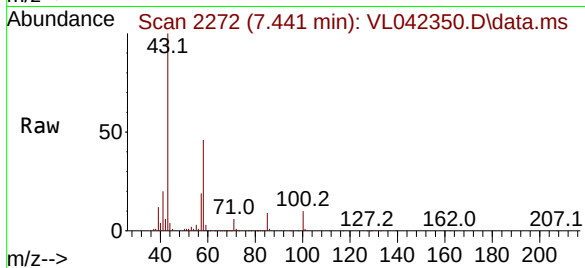




#51
2-Hexanone
Concen: 2.375 ppbv
RT: 7.441 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

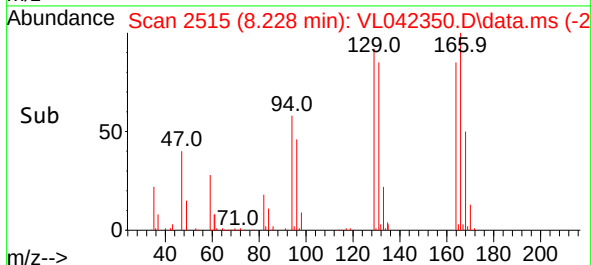
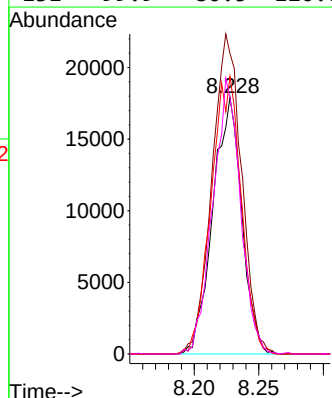
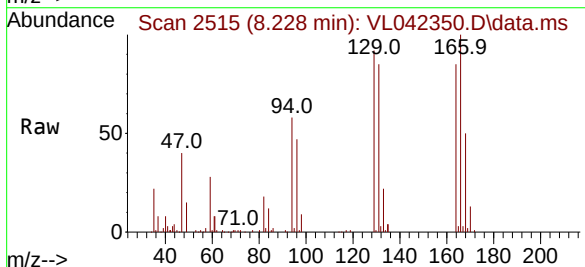
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

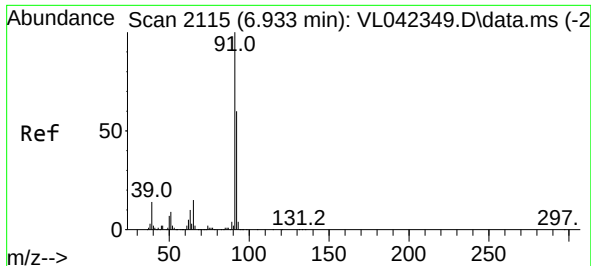
Tgt Ion: 43 Resp: 100443
Ion Ratio Lower Upper
43 100
58 49.0 40.2 60.4
98 0.1 0.1 0.1



#52
Tetrachloroethene
Concen: 1.877 ppbv
RT: 8.228 min Scan# 2515
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 164 Resp: 27854
Ion Ratio Lower Upper
164 100
166 117.2 98.2 147.2
129 108.2 81.8 122.8
131 99.9 80.5 120.7

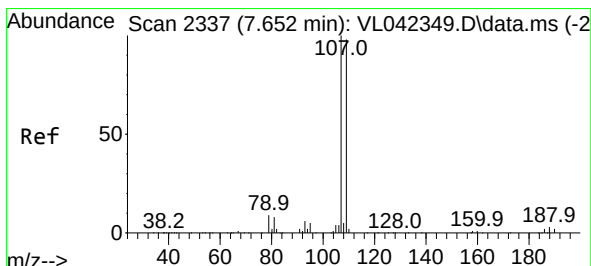
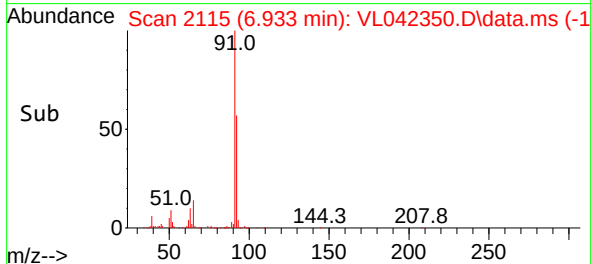
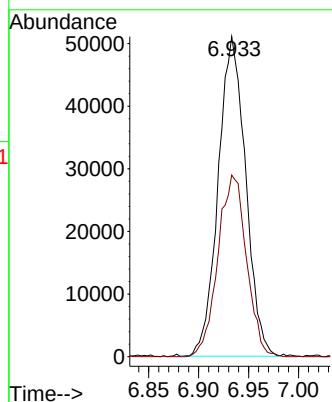
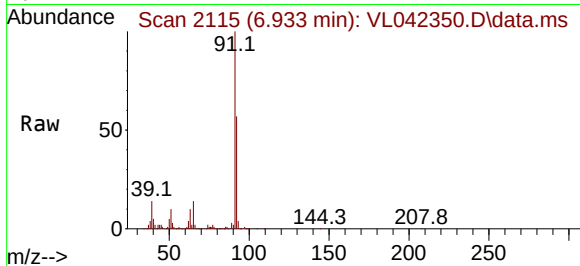




#53
Toluene
Concen: 2.116 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

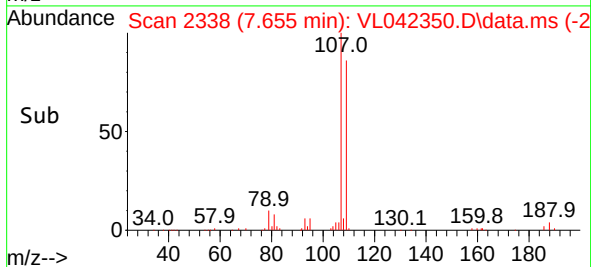
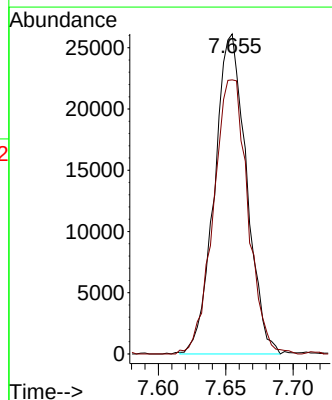
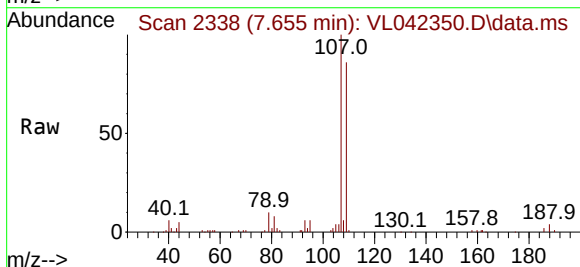
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

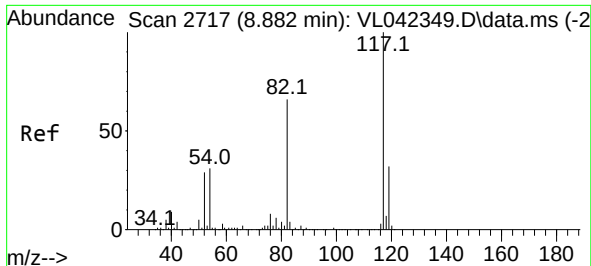
Tgt Ion: 91 Resp: 97493
Ion Ratio Lower Upper
91 100
92 59.1 48.2 72.4



#54
1,2-Dibromoethane
Concen: 2.076 ppbv
RT: 7.655 min Scan# 2338
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 107 Resp: 43153
Ion Ratio Lower Upper
107 100
109 84.5 78.2 117.4

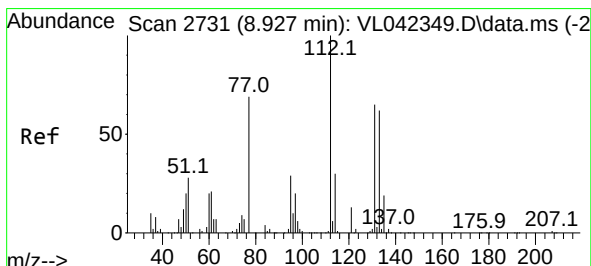
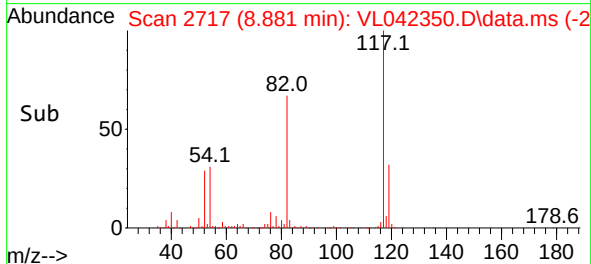
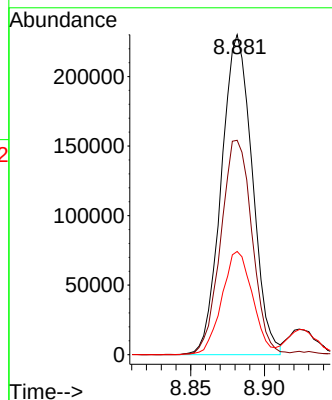
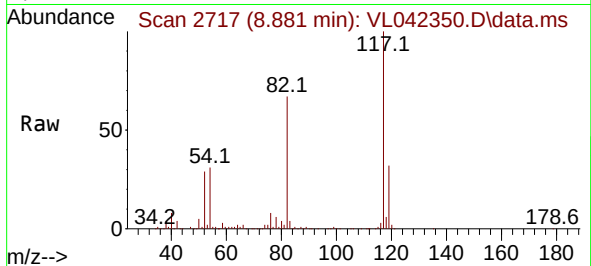




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.881 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

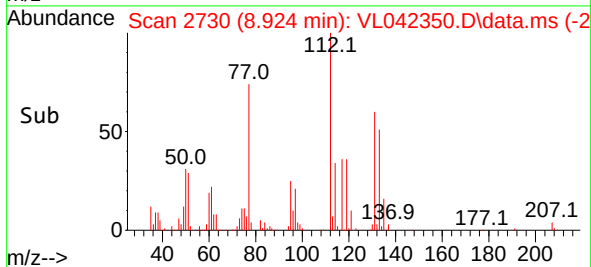
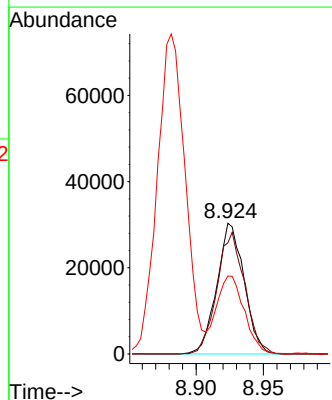
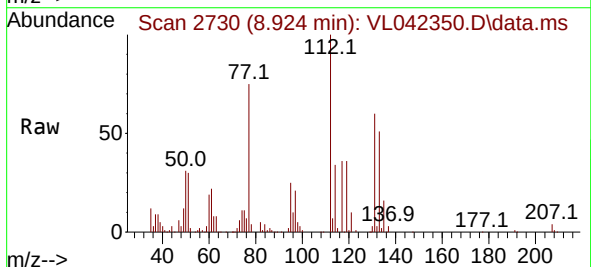
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

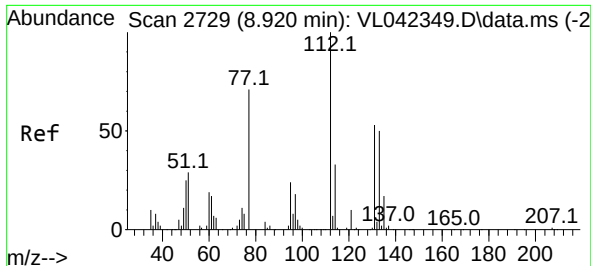
Tgt Ion:117 Resp: 335603
Ion Ratio Lower Upper
117 100
82 68.8 57.8 86.6
119 32.2 25.2 37.8



#56
1,1,1,2-Tetrachloroethane
Concen: 2.097 ppbv
RT: 8.924 min Scan# 2730
Delta R.T. -0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:131 Resp: 42601
Ion Ratio Lower Upper
131 100
133 95.3 78.3 117.5
119 53.8 48.7 73.1

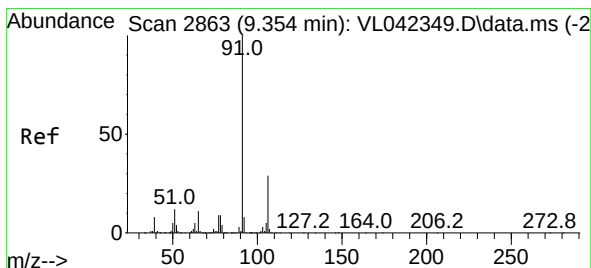
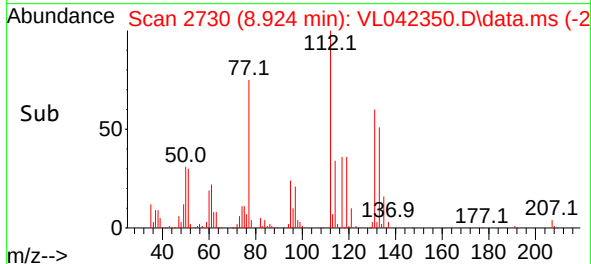
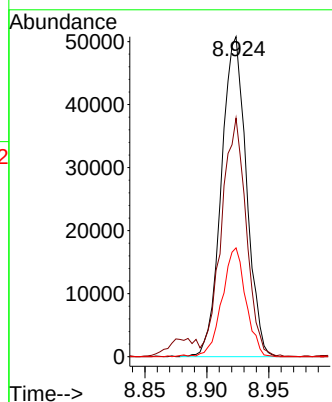
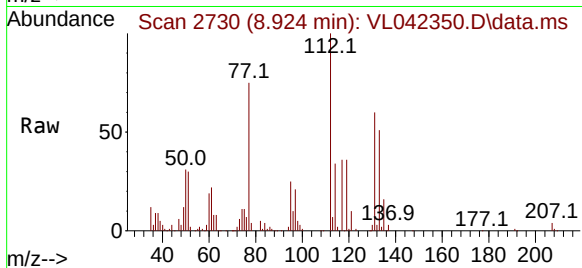




#57
Chlorobenzene
Concen: 2.054 ppbv
RT: 8.924 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

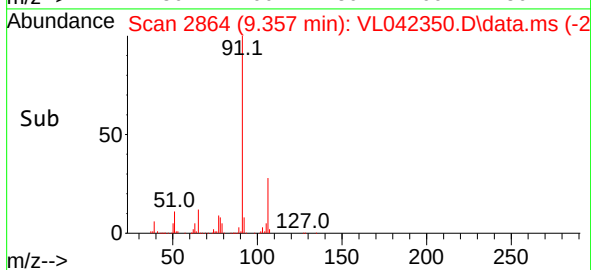
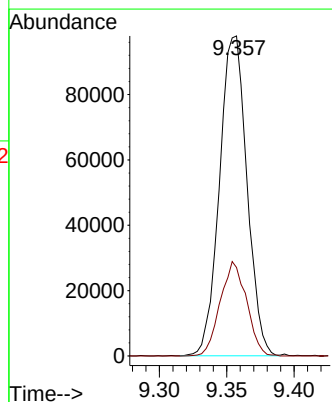
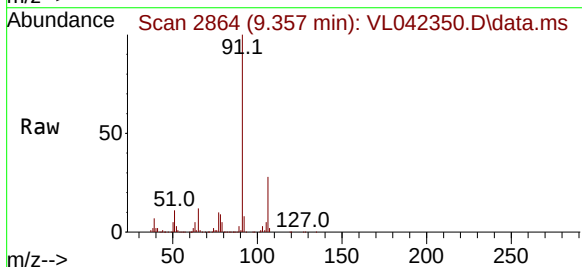
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC002

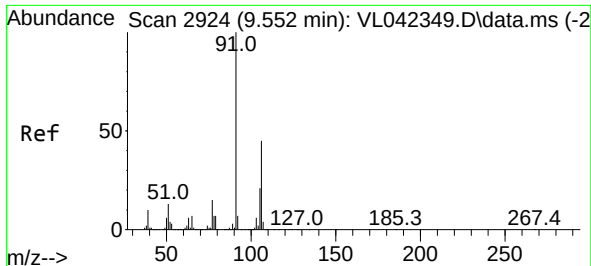
Tgt Ion:112 Resp: 71685
Ion Ratio Lower Upper
112 100
77 74.0 57.8 86.6
114 34.0 29.3 35.9



#58
Ethyl Benzene
Concen: 2.088 ppbv
RT: 9.357 min Scan# 2864
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 91 Resp: 138810
Ion Ratio Lower Upper
91 100
106 27.7 23.0 34.4





#59

m/p-Xylene

Concen: 1.934 ppbv

RT: 9.551 min Scan# 2924

Delta R.T. -0.000 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

Instrument :

MSVOA_L

ClientSampleId :

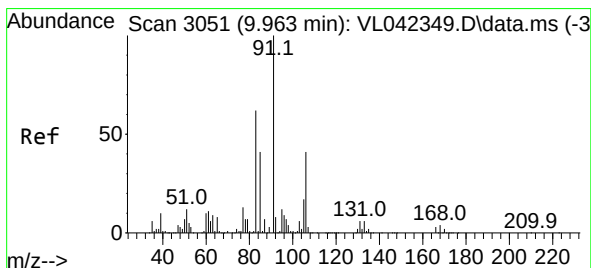
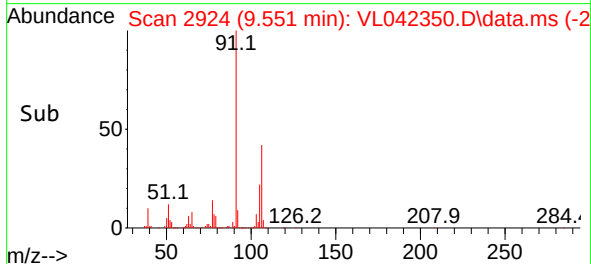
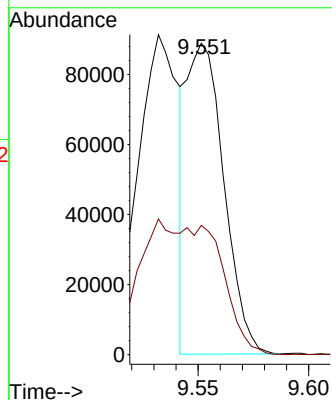
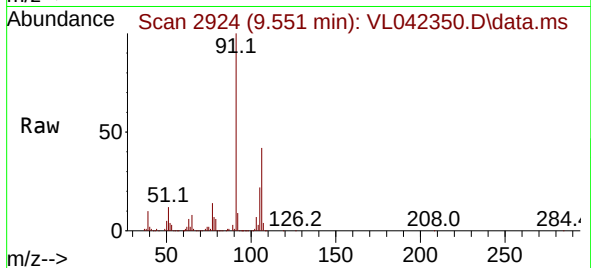
VSTDIC002

Tgt Ion: 91 Resp: 103886

Ion Ratio Lower Upper

91 100

106 0.0 35.4 53.2#



#60

o-Xylene

Concen: 2.076 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. -0.000 min

Lab File: VL042350.D

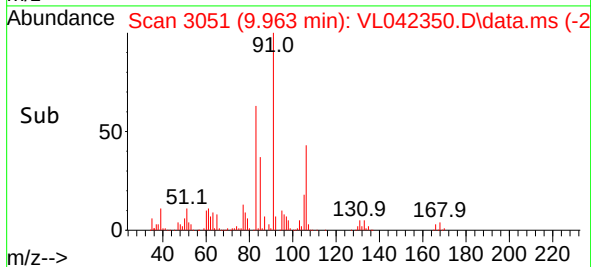
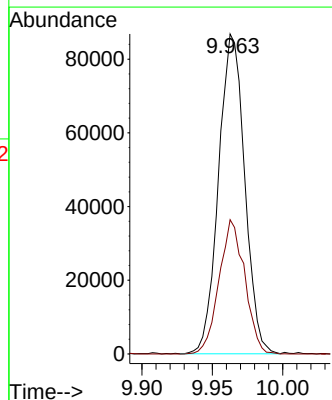
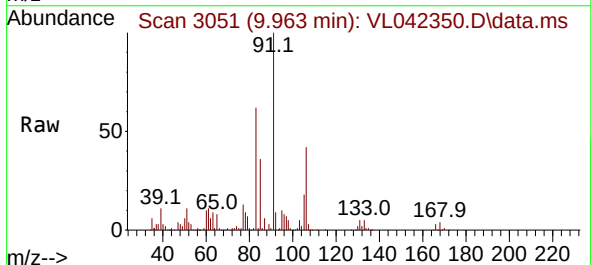
Acq: 17 Apr 2025 10:17

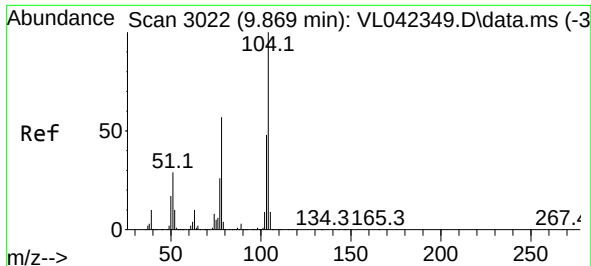
Tgt Ion: 91 Resp: 111972

Ion Ratio Lower Upper

91 100

106 41.2 21.1 63.4

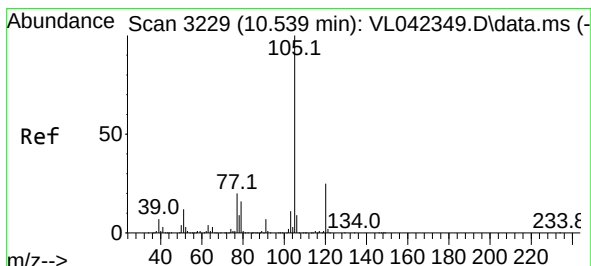
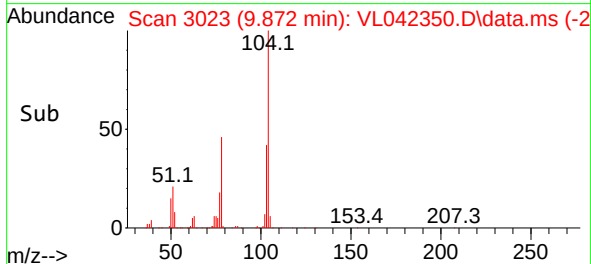
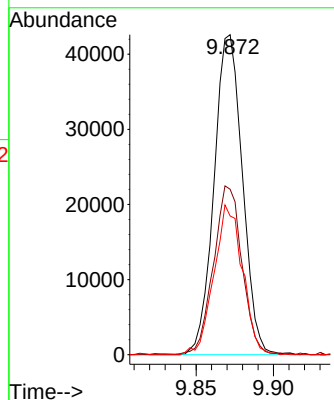
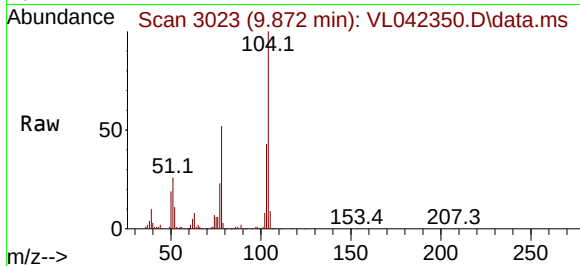




#61
Styrene
Concen: 2.106 ppbv
RT: 9.872 min Scan# 3022
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

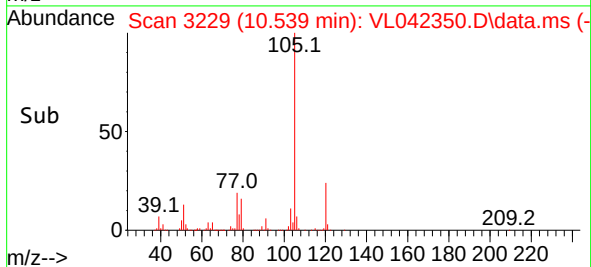
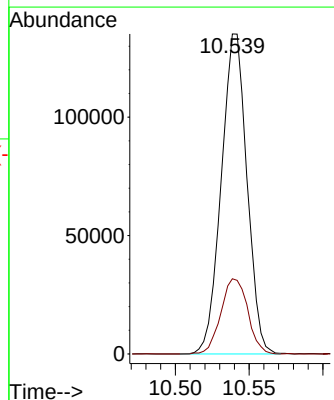
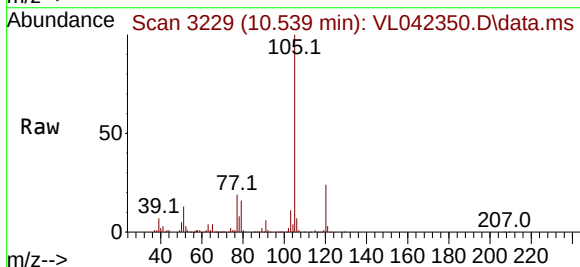
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

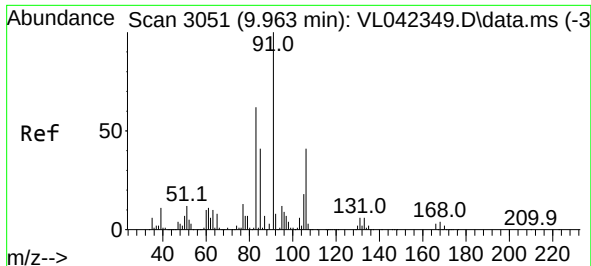
Tgt Ion:104 Resp: 54229
Ion Ratio Lower Upper
104 100
78 53.4 44.6 66.8
103 47.1 37.4 56.0



#62
Isopropylbenzene
Concen: 2.067 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion:105 Resp: 163716
Ion Ratio Lower Upper
105 100
120 24.6 19.8 29.8

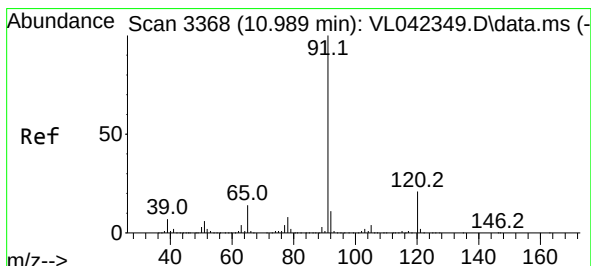
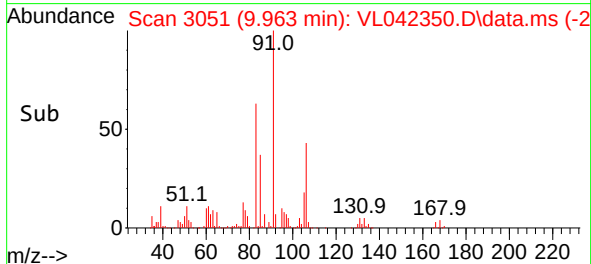
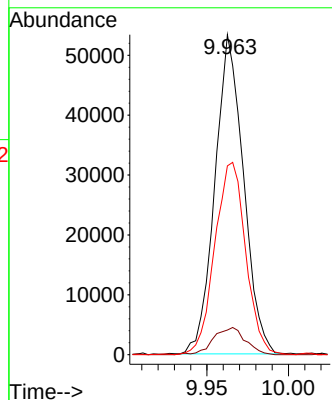
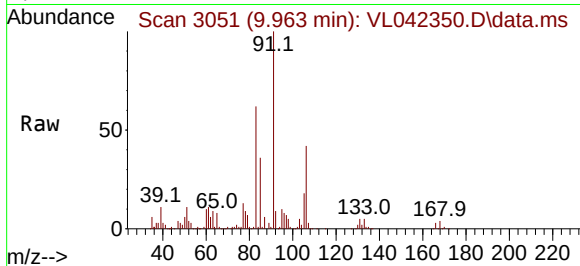




#63
1,1,2,2-Tetrachloroethane
Concen: 1.853 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

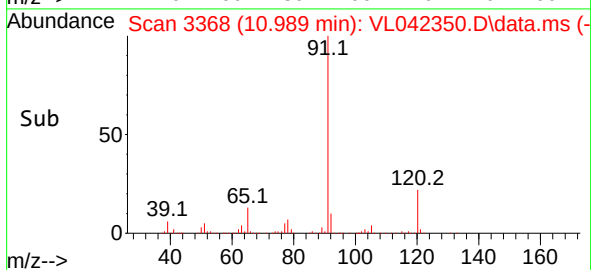
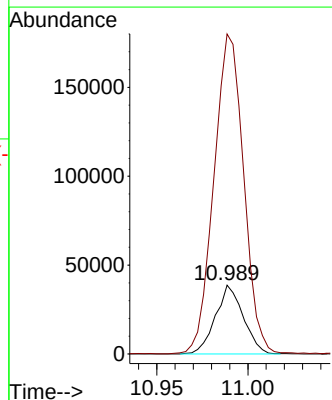
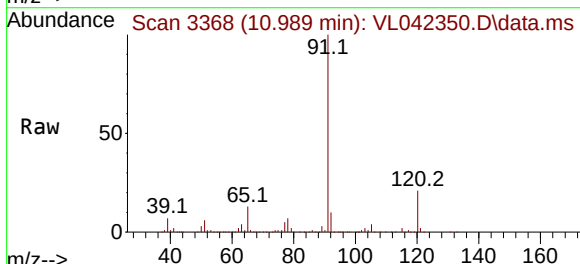
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

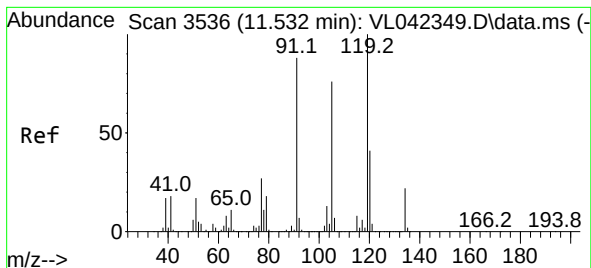
Tgt Ion: 83 Resp: 64952
Ion Ratio Lower Upper
83 100
131 9.6 4.5 13.7
85 65.4 32.4 97.0



#64
n-propylbenzene
Concen: 2.058 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 120 Resp: 40956
Ion Ratio Lower Upper
120 100
91 502.0 392.4 588.6





#65

tert-Butylbenzene

Concen: 2.135 ppbv

RT: 11.532 min Scan# 3536

Delta R.T. -0.000 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

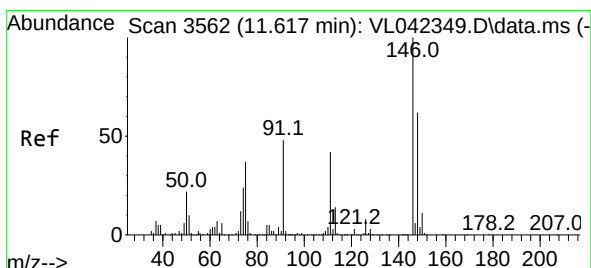
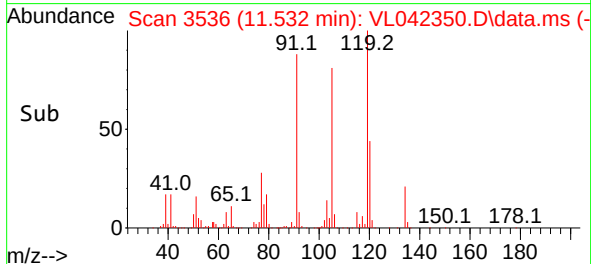
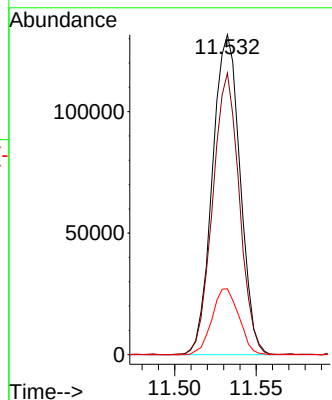
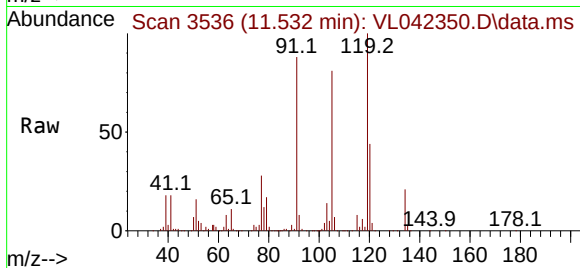
Tgt Ion:119 Resp: 155401

Ion Ratio Lower Upper

119 100

91 85.0 74.6 111.8

134 20.1 18.8 28.2



#66

Benzyl Chloride

Concen: 2.163 ppbv

RT: 11.616 min Scan# 3562

Delta R.T. -0.000 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

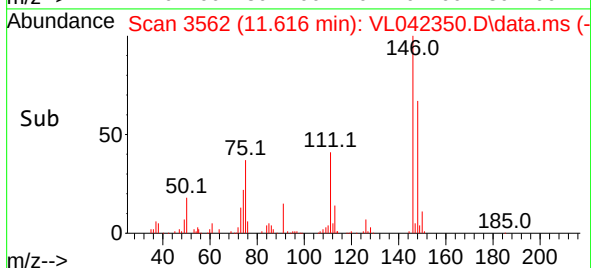
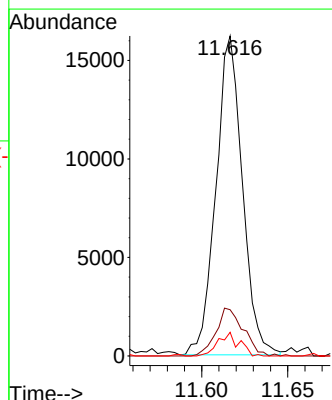
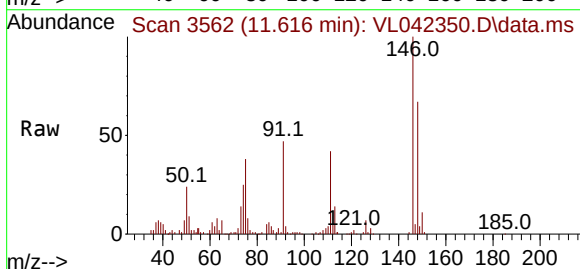
Tgt Ion: 91 Resp: 17300

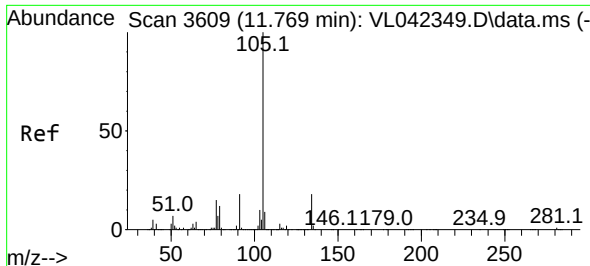
Ion Ratio Lower Upper

91 100

126 15.6 11.8 17.6

128 6.1 4.5 6.7

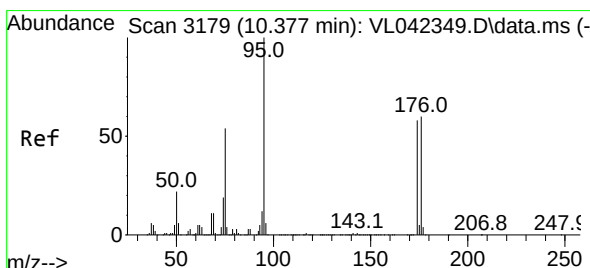
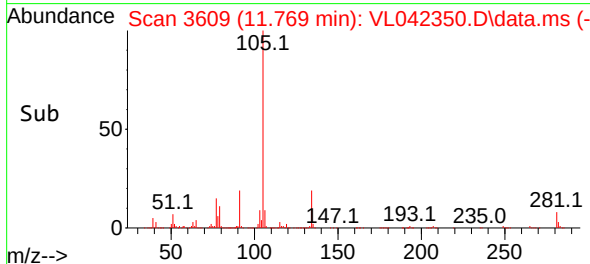
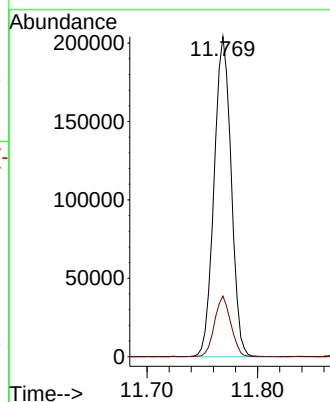
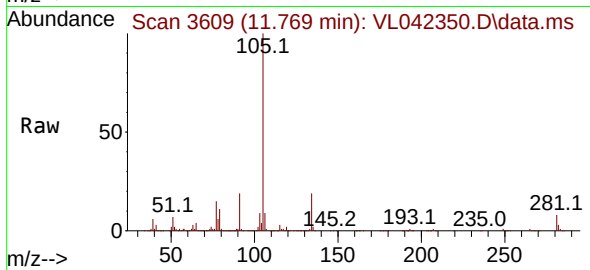




#67
 sec-Butylbenzene
 Concen: 2.156 ppbv
 RT: 11.769 min Scan# 3609
 Delta R.T. -0.000 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

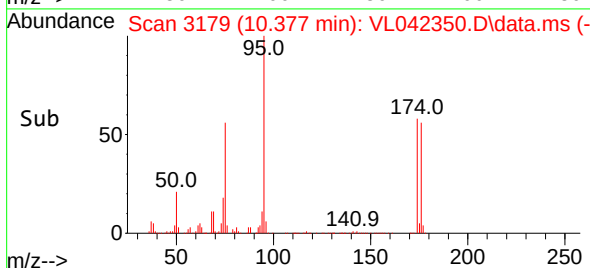
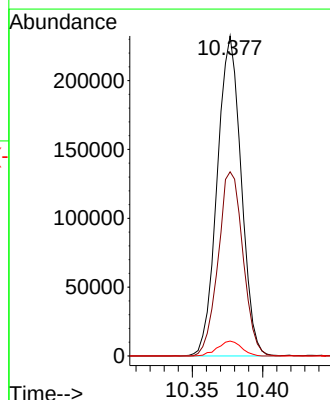
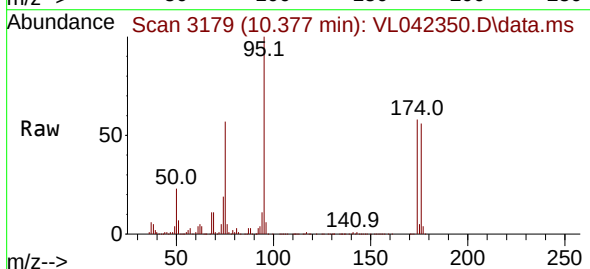
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002

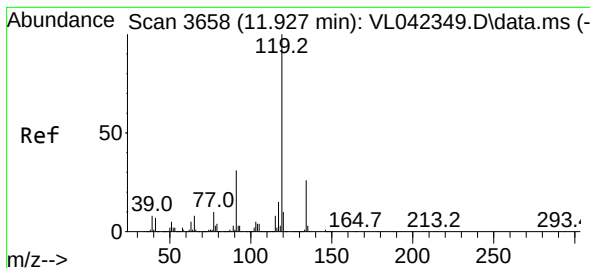
Tgt Ion:105 Resp: 218327
 Ion Ratio Lower Upper
 105 100
 134 18.1 14.6 21.8



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.998 ppbv
 RT: 10.377 min Scan# 3179
 Delta R.T. -0.000 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

Tgt Ion: 95 Resp: 275715
 Ion Ratio Lower Upper
 95 100
 174 59.6 48.5 72.7
 175 4.7 3.7 5.5

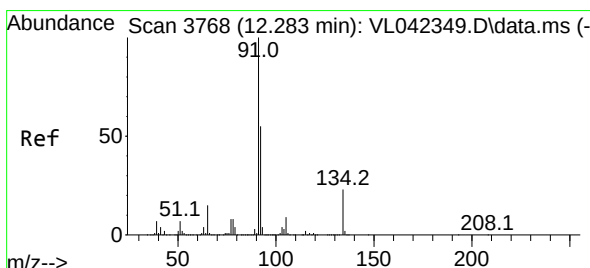
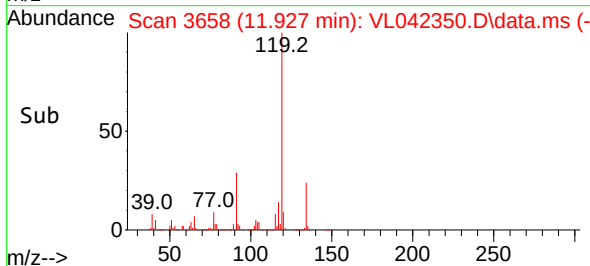
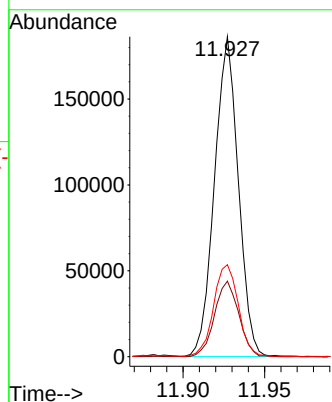
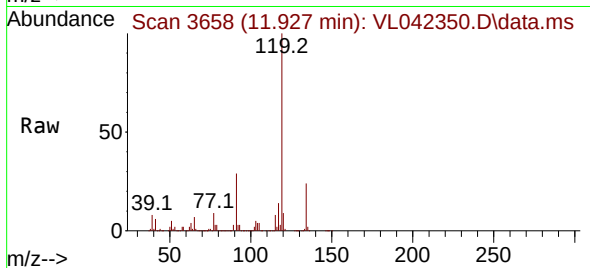




#69
 p-Isopropyltoluene
 Concen: 2.145 ppbv
 RT: 11.927 min Scan# 3658
 Delta R.T. -0.000 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

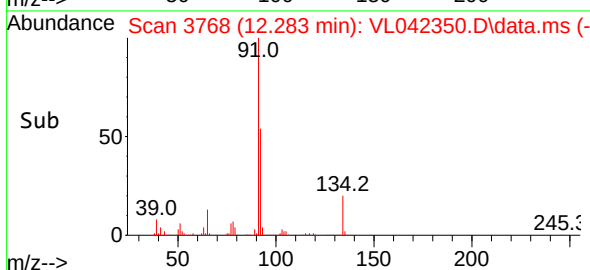
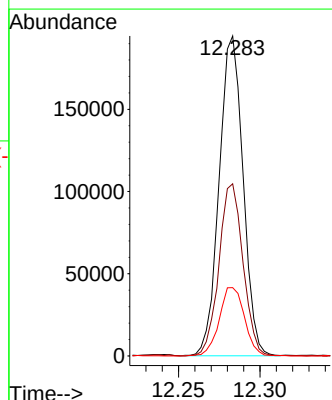
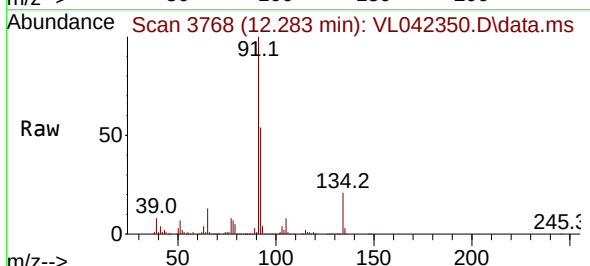
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

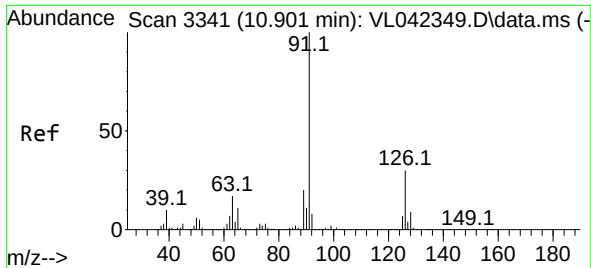
Tgt Ion: 119 Resp: 188657
 Ion Ratio Lower Upper
 119 100
 134 24.2 20.0 30.0
 91 30.8 24.4 36.6



#70
 n-Butylbenzene
 Concen: 2.164 ppbv
 RT: 12.283 min Scan# 3768
 Delta R.T. -0.000 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

Tgt Ion: 91 Resp: 198221
 Ion Ratio Lower Upper
 91 100
 92 54.4 44.2 66.4
 134 22.6 18.2 27.4

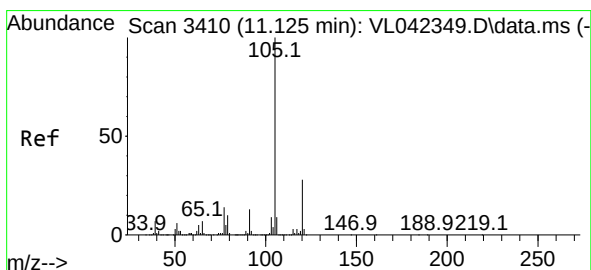
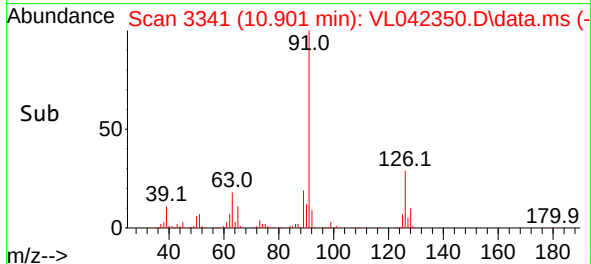
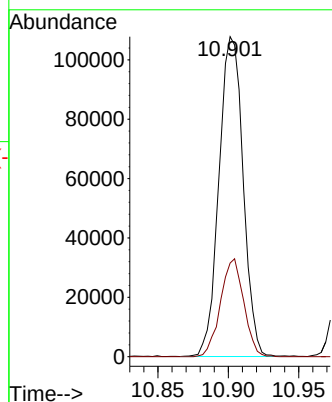
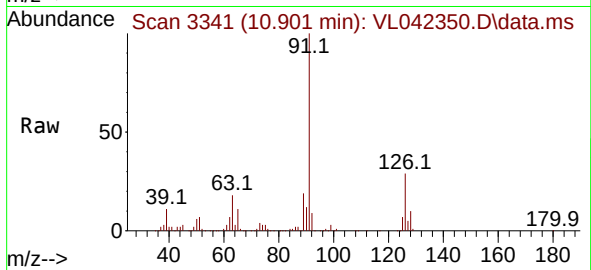




#71
2-Chlorotoluene
Concen: 2.075 ppbv
RT: 10.901 min Scan# 31
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

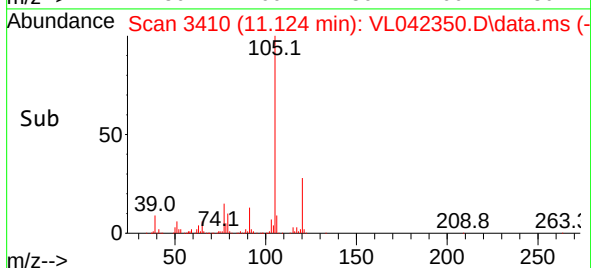
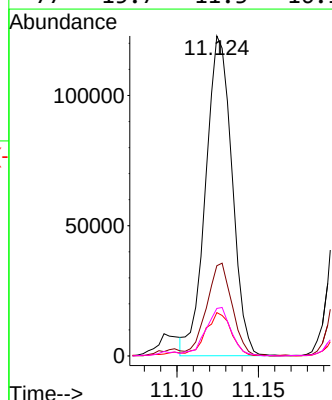
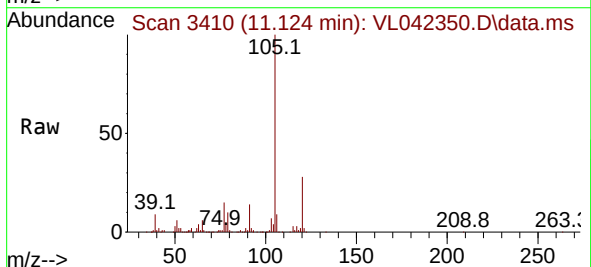
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

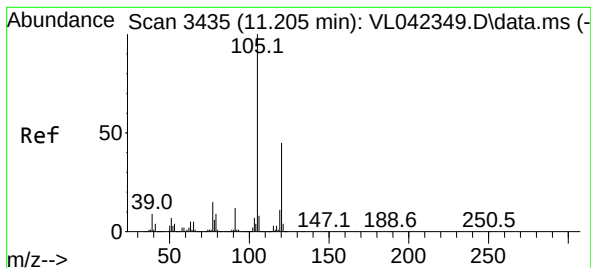
Tgt Ion: 91 Resp: 128858
Ion Ratio Lower Upper
91 100
126 29.5 11.4 45.4



#72
4-Ethyltoluene
Concen: 2.091 ppbv
RT: 11.124 min Scan# 3410
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Tgt Ion: 105 Resp: 137872
Ion Ratio Lower Upper
105 100
120 30.1 23.2 34.8
91 14.4 10.4 15.6
77 15.7 11.3 16.9





#73

1,3,5-Trimethylbenzene

Concen: 2.123 ppbv

RT: 11.205 min Scan# 3435

Delta R.T. -0.000 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

Instrument :

MSVOA_L

ClientSampleId :

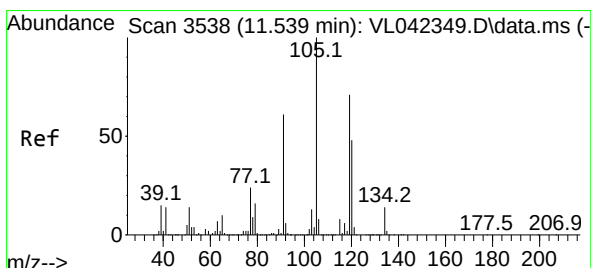
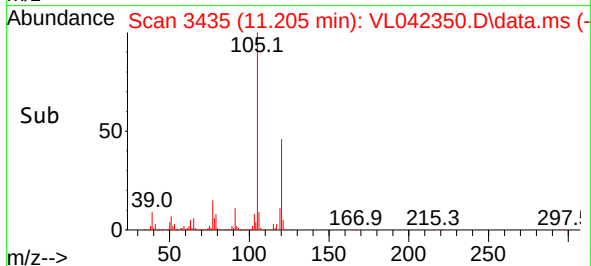
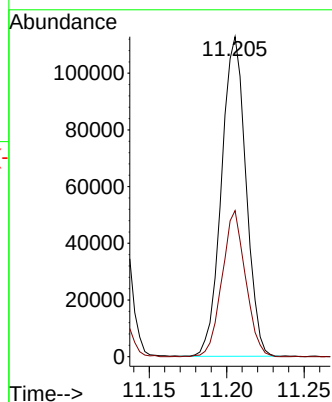
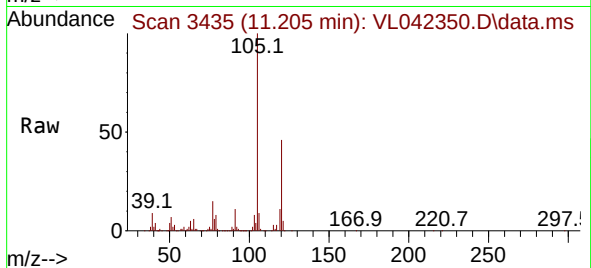
VSTDIC002

Tgt Ion:105 Resp: 123580

Ion Ratio Lower Upper

105 100

120 45.7 35.6 53.4



#74

1,2,4-Trimethylbenzene

Concen: 2.140 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. -0.000 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

Tgt Ion:105 Resp: 145510

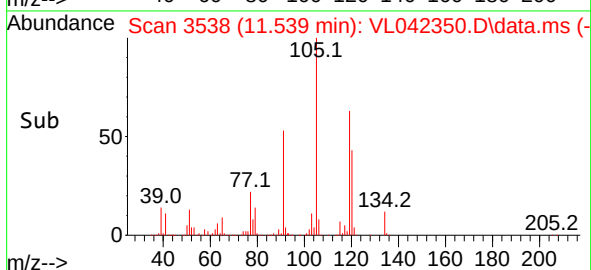
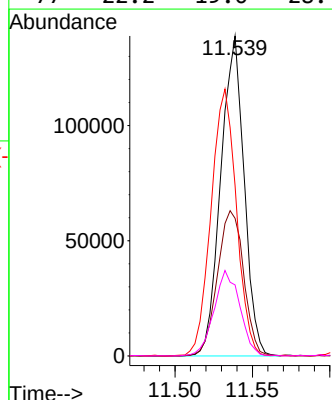
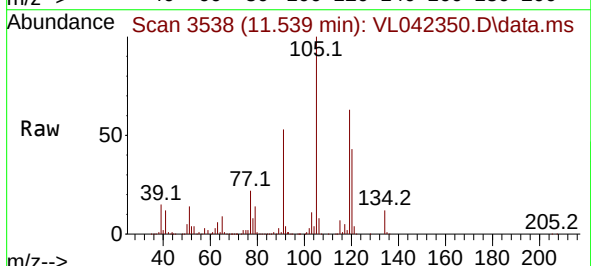
Ion Ratio Lower Upper

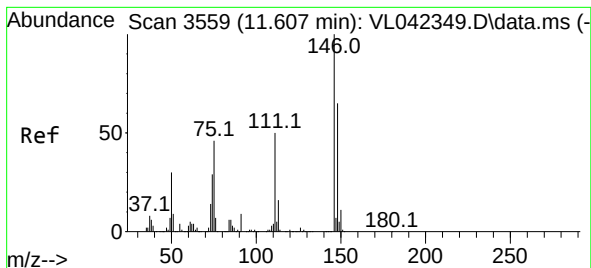
105 100

120 43.0 38.1 57.1

91 53.1 48.8 73.2

77 22.2 19.0 28.4





#75

1,3-Dichlorobenzene

Concen: 2.124 ppbv

RT: 11.607 min Scan# 3559

Delta R.T. -0.000 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC002

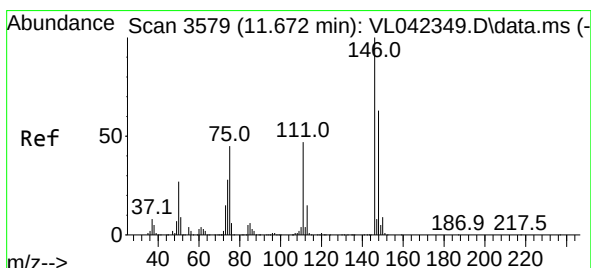
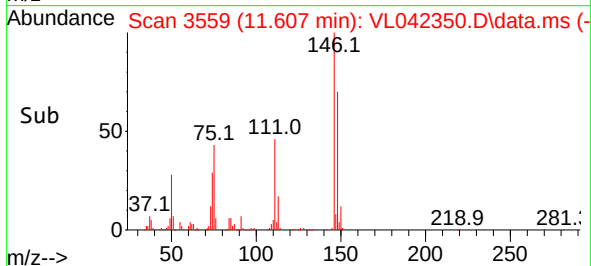
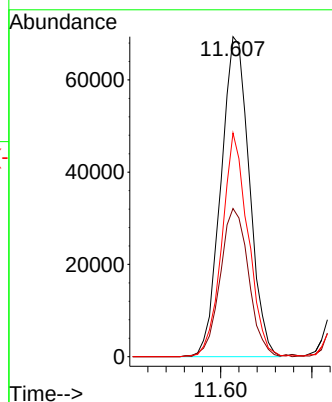
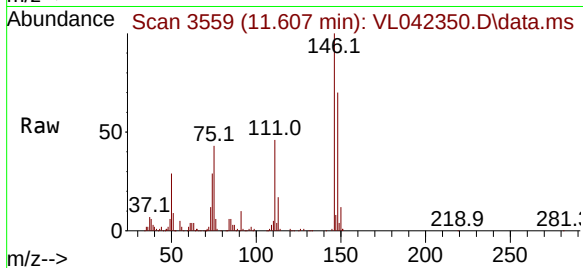
Tgt Ion:146 Resp: 75082

Ion Ratio Lower Upper

146 100

111 46.3 24.3 72.8

148 64.3 31.6 94.8



#76

1,4-Dichlorobenzene

Concen: 2.120 ppbv

RT: 11.671 min Scan# 3579

Delta R.T. -0.000 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

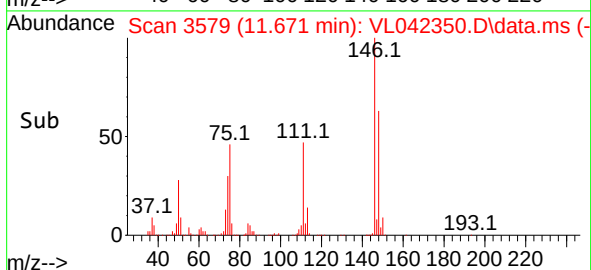
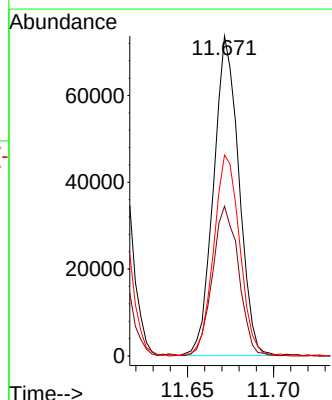
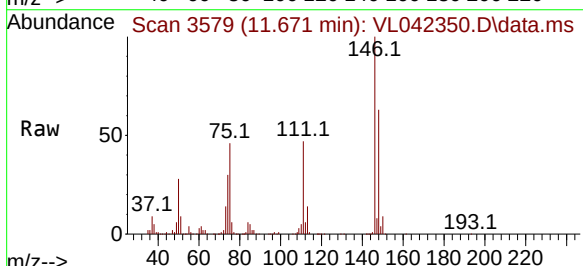
Tgt Ion:146 Resp: 75323

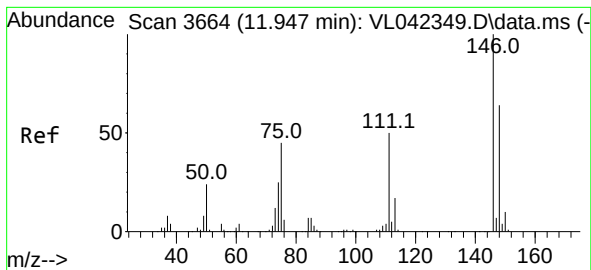
Ion Ratio Lower Upper

146 100

111 48.4 24.2 72.6

148 65.1 32.1 96.5





#77

1,2-Dichlorobenzene

Concen: 2.176 ppbv

RT: 11.947 min Scan# 30

Delta R.T. -0.000 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

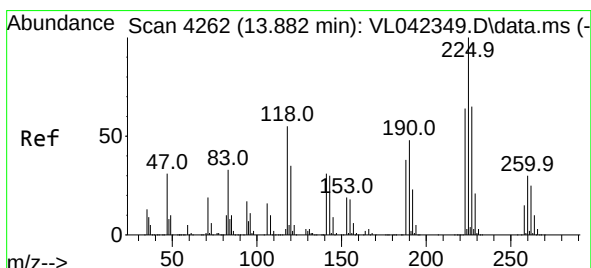
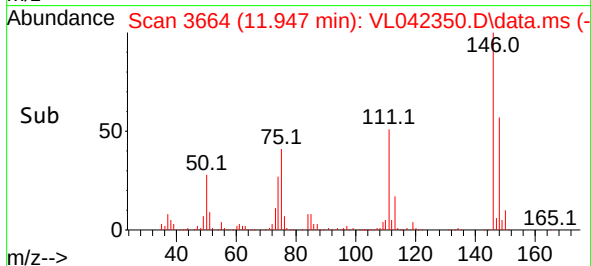
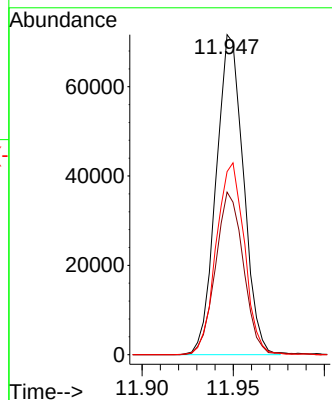
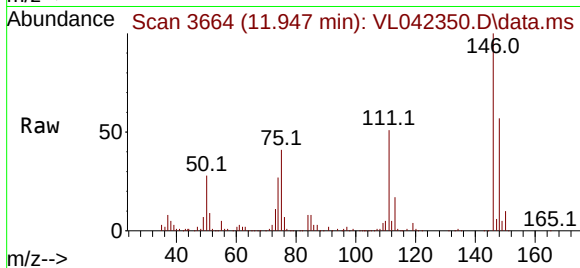
Tgt Ion:146 Resp: 74786

Ion Ratio Lower Upper

146 100

111 52.0 25.3 75.9

148 61.8 31.5 94.5



#78

Hexachloro-1,3-Butadiene

Concen: 2.194 ppbv

RT: 13.882 min Scan# 4262

Delta R.T. -0.000 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

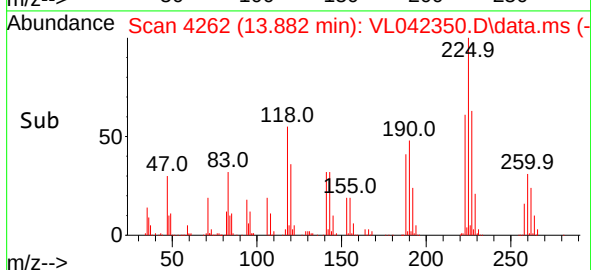
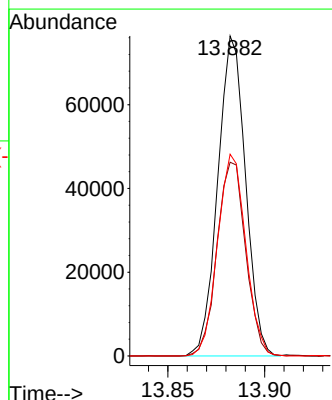
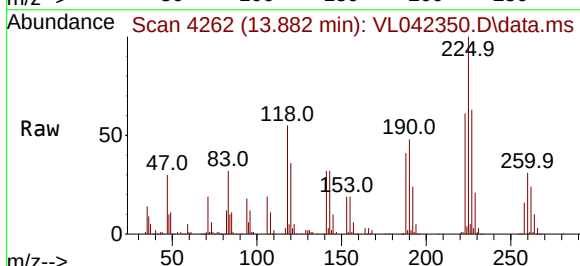
Tgt Ion:225 Resp: 76158

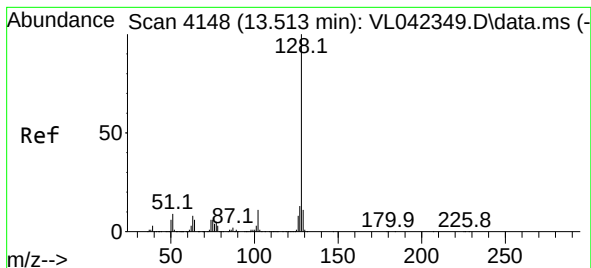
Ion Ratio Lower Upper

225 100

223 62.6 50.3 75.5

227 64.1 51.5 77.3





#79

Naphthalene

Concen: 2.401 ppbv

RT: 13.513 min Scan# 4148

Delta R.T. -0.000 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC002

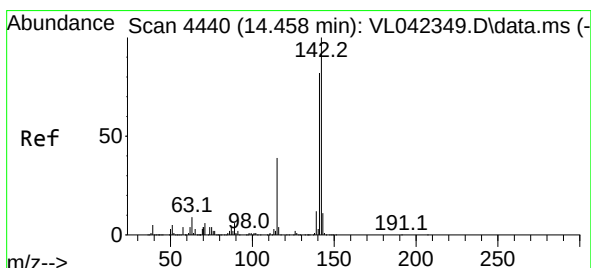
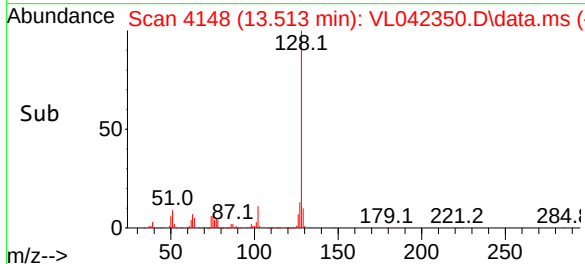
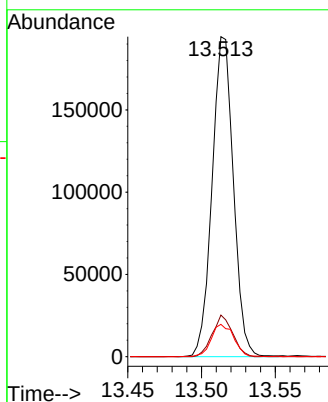
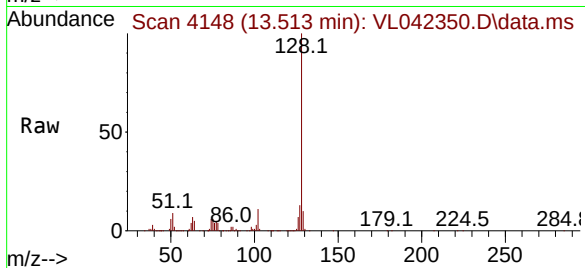
Tgt Ion:128 Resp: 195233

Ion Ratio Lower Upper

128 100

127 13.0 10.6 15.8

129 10.1 8.6 12.8



#80

Naphthalene,2-methyl-

Concen: 2.574 ppbv

RT: 14.458 min Scan# 4440

Delta R.T. -0.000 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

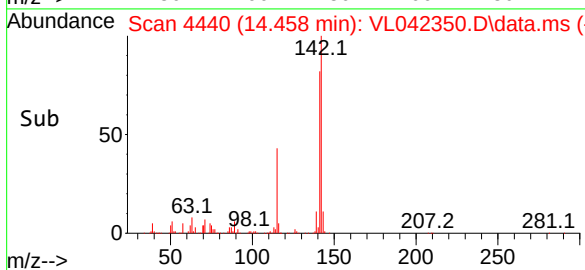
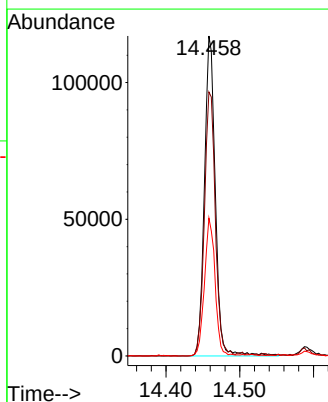
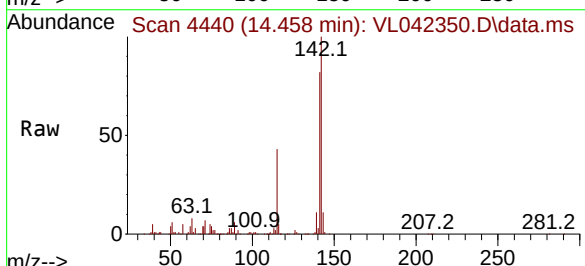
Tgt Ion:142 Resp: 119262

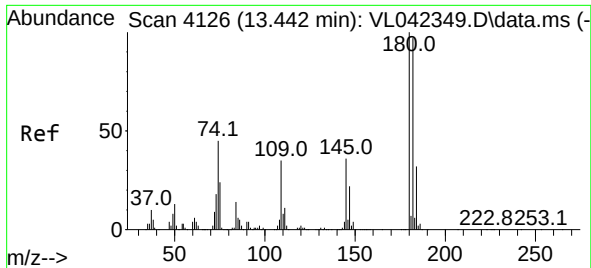
Ion Ratio Lower Upper

142 100

141 84.7 66.8 100.2

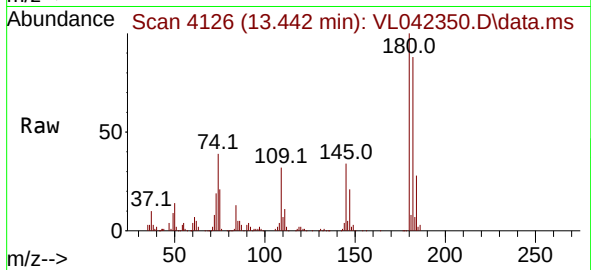
115 42.2 33.4 50.2



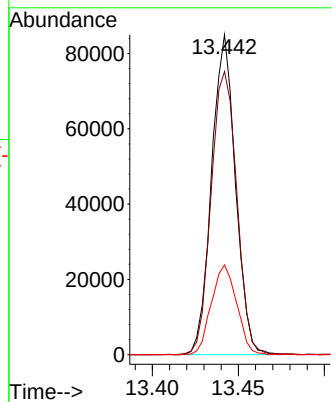
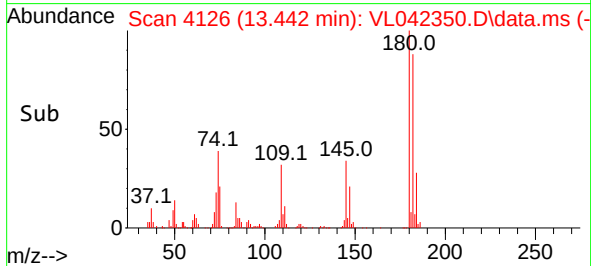


#81
 1,2,4-Trichlorobenzene
 Concen: 2.353 ppbv
 RT: 13.442 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002



Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.1	76.8	115.2
184	29.8	24.6	36.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042351.D
 Acq On : 17 Apr 2025 10:48
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Quant Time: Apr 18 01:27:33 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 01:24:29 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.791	49	124177	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	359907	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	329090	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	269087	9.950	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.500%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	22816	1.040	ppbv	93
3) Chlorodifluoromethane	1.476	51	20573	0.985	ppbv	97
4) Chloromethane	1.535	50	9008	1.038	ppbv	99
5) Vinyl Chloride	1.580	62	8807	0.932	ppbv	98
6) Bromomethane	1.671	94	4099	1.001	ppbv	91
7) Chloroethane	1.706	64	3559	1.041	ppbv	90
8) Dichlorotetrafluoroethane	1.554	85	19251	1.022	ppbv	100
9) Propene	1.486	41	9892	1.040	ppbv	92
10) Heptane	4.982	43	16193	0.633	ppbv #	49
11) Trichlorofluoromethane	1.878	101	22428	1.075	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.140	101	17865	1.047	ppbv	98
13) Ethanol	1.722	45	810	1.042	ppbv #	43
14) Bromoethene	1.784	108	6766	1.052	ppbv #	89
15) Acetone	1.839	43	23537	1.158	ppbv	97
16) 1,3-Butadiene	1.609	39	9495	0.995	ppbv	96
17) tert-Butyl alcohol	2.043	59	26477	1.051	ppbv #	90
18) 1,1-Dichloroethene	2.036	96	7890	0.962	ppbv	94
19) Isopropyl Alcohol	1.888	45	12175	1.078	ppbv #	39
20) Methylene Chloride	2.062	84	9046	1.136	ppbv	87
21) Allyl Chloride	2.098	41	15057	1.073	ppbv	91
22) trans-1,2-Dichloroethene	2.344	96	9421	1.038	ppbv	96
23) Vinyl Acetate	2.467	43	9234	1.122	ppbv #	90
24) 1,1-Dichloroethane	2.409	63	18236	1.058	ppbv	99
25) Ethyl Acetate	2.842	43	51494	1.027	ppbv #	97
26) Hexane	2.826	57	21350	1.053	ppbv	95
27) Carbon Disulfide	2.153	76	20739	0.955	ppbv #	1
28) Methyl tert-Butyl Ether	2.444	73	14164	1.066	ppbv #	85
29) Chloroform	2.852	83	28973	1.011	ppbv	100
30) Cyclohexane	3.862	84	8430	0.516	ppbv #	1
31) cis-1,2-Dichloroethene	2.723	61	19904	1.032	ppbv	97
32) 1,1,1-Trichloroethane	3.376	97	31653	1.030	ppbv	98
34) 2-Butanone	2.564	43	29735	1.045	ppbv	99
35) Carbon Tetrachloride	3.768	117	29875	0.917	ppbv	94
36) Benzene	3.661	78	38707	0.997	ppbv	95
37) 1,2-Dichloroethane	3.224	62	23284	0.999	ppbv	97
38) Trichloroethene	4.551	130	16119	0.947	ppbv	96
39) 1,2-Dichloropropane	4.318	63	14866	1.027	ppbv	96
40) 1,4-Dioxane	4.603	88	967	0.123	ppbv #	1
41) Tetrahydrofuran	3.062	42	17259	1.049	ppbv	96
42) Bromodichloromethane	4.490	83	32721	1.009	ppbv #	98
43) Methyl Methacrylate	4.885	69	13084	0.751	ppbv #	47
44) 2,2,4-Trimethylpentane	4.648	57	28653	0.427	ppbv #	21
45) t-1,3-Dichloropropene	6.416	75	11763	0.658	ppbv	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042351.D
 Acq On : 17 Apr 2025 10:48
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

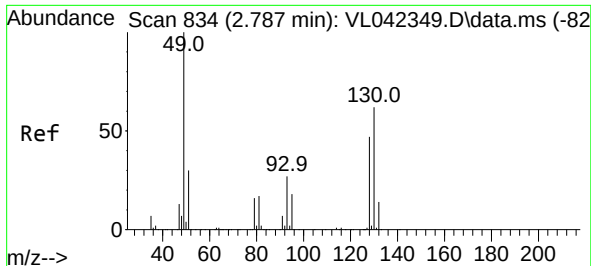
Quant Time: Apr 18 01:27:33 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 01:24:29 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.603	75	13028	0.596	ppbv	95
47) 1,1,2-Trichloroethane	6.587	97	7690	0.521	ppbv #	78
48) Dibromochloromethane	7.390	129	25948	0.997	ppbv	100
49) Bromoform	9.484	173	22413	0.984	ppbv	98
50) 4-Methyl-2-Pentanone	5.765	43	49725	1.049	ppbv	97
51) 2-Hexanone	7.445	43	47178	1.103	ppbv	99
52) Tetrachloroethene	8.228	164	14154	0.943	ppbv	93
53) Toluene	6.940	91	46611	1.001	ppbv	100
54) 1,2-Dibromoethane	7.658	107	21780	1.036	ppbv	93
56) 1,1,1,2-Tetrachloroethane	8.927	131	21052	1.057	ppbv	95
57) Chlorobenzene	8.921	112	35113	1.026	ppbv #	95
58) Ethyl Benzene	9.354	91	68703	1.054	ppbv	96
59) m/p-Xylene	9.552	91	48794	0.926	ppbv #	32
60) o-Xylene	9.966	91	55831	1.056	ppbv	99
61) Styrene	9.872	104	25544	1.012	ppbv	100
62) Isopropylbenzene	10.542	105	81286	1.047	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.966	83	32410	0.943	ppbv	99
64) n-propylbenzene	10.989	120	19898	1.019	ppbv	90
65) tert-Butylbenzene	11.533	119	77598	1.087	ppbv	92
66) Benzyl Chloride	11.617	91	7864	1.003	ppbv #	91
67) sec-Butylbenzene	11.769	105	105919	1.067	ppbv	97
69) p-Isopropyltoluene	11.928	119	92733	1.075	ppbv	97
70) n-Butylbenzene	12.284	91	96306	1.072	ppbv	99
71) 2-Chlorotoluene	10.905	91	63321	1.040	ppbv	99
72) 4-Ethyltoluene	11.128	105	69698	1.078	ppbv	99
73) 1,3,5-Trimethylbenzene	11.206	105	60927	1.067	ppbv	99
74) 1,2,4-Trimethylbenzene	11.539	105	73888	1.108	ppbv	95
75) 1,3-Dichlorobenzene	11.610	146	36877	1.064	ppbv	98
76) 1,4-Dichlorobenzene	11.675	146	36692	1.053	ppbv	98
77) 1,2-Dichlorobenzene	11.950	146	35977	1.068	ppbv	97
78) Hexachloro-1,3-Butadiene	13.886	225	37377	1.098	ppbv	99
79) Naphthalene	13.517	128	90710	1.138	ppbv	99
80) Naphthalene,2-methyl-	14.462	142	50487	1.111	ppbv	98
81) 1,2,4-Trichlorobenzene	13.442	180	36764	1.074	ppbv	99

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

Quant Time: Apr 18 01:27:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

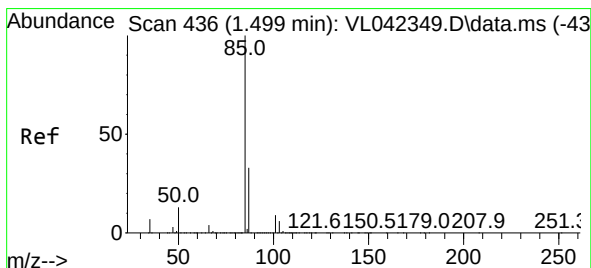
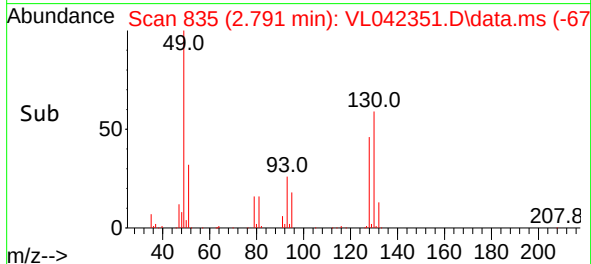
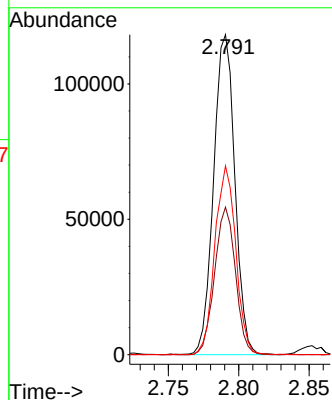
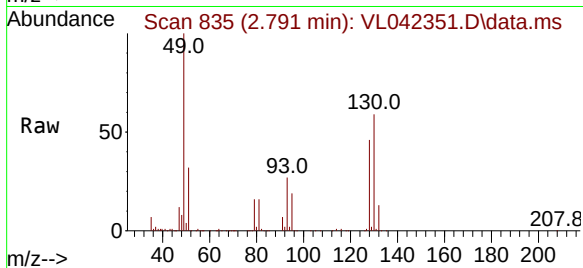




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.791 min Scan# 834
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

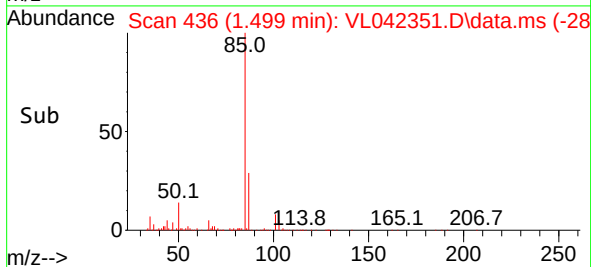
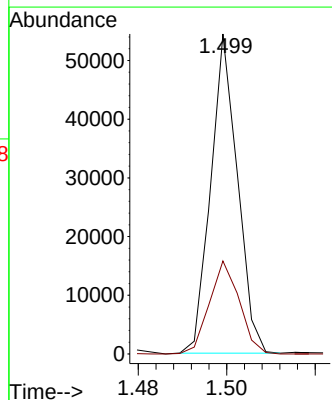
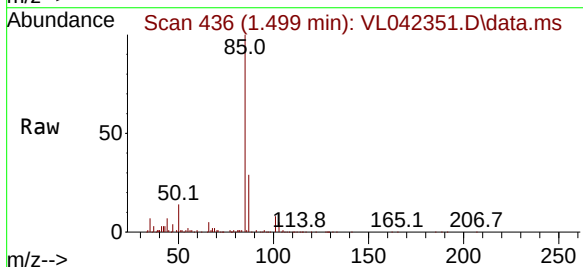
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

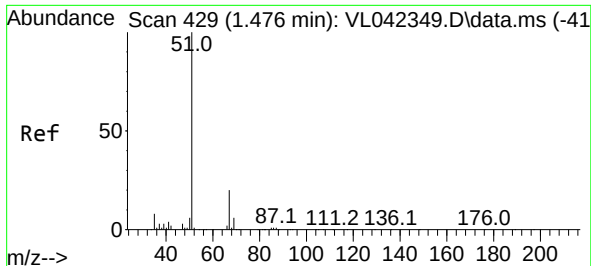
Tgt Ion: 49 Resp: 124177
Ion Ratio Lower Upper
49 100
128 45.2 22.8 68.4
130 58.1 29.3 88.0



#2
Dichlorodifluoromethane
Concen: 1.040 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 85 Resp: 22816
Ion Ratio Lower Upper
85 100
87 29.1 26.6 39.8

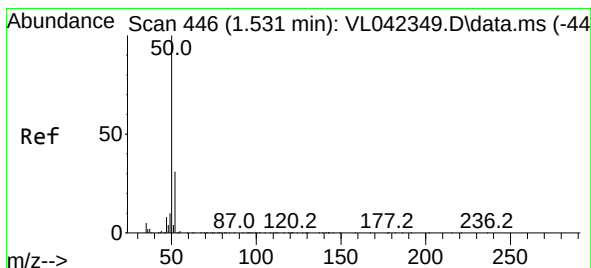
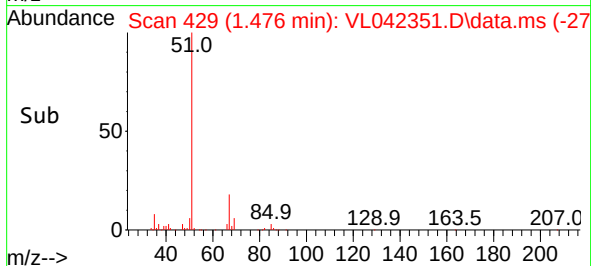
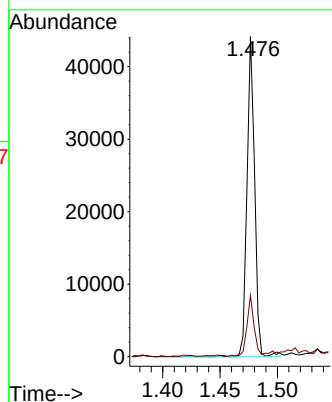
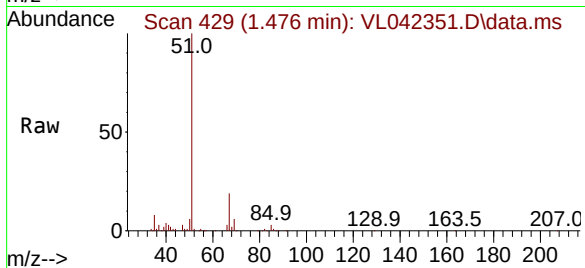




#3
Chlorodifluoromethane
Concen: 0.985 ppbv
RT: 1.476 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

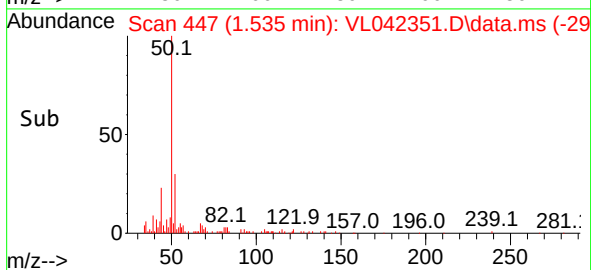
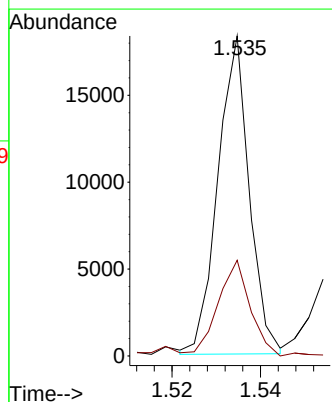
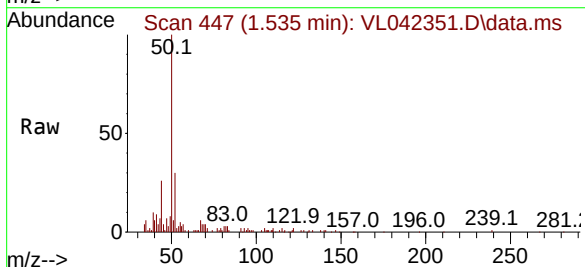
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

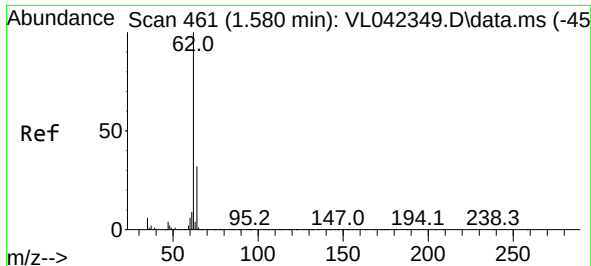
Tgt Ion: 51 Resp: 20573
Ion Ratio Lower Upper
51 100
67 19.1 16.2 24.4



#4
Chloromethane
Concen: 1.038 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 50 Resp: 9008
Ion Ratio Lower Upper
50 100
52 30.4 24.7 37.1

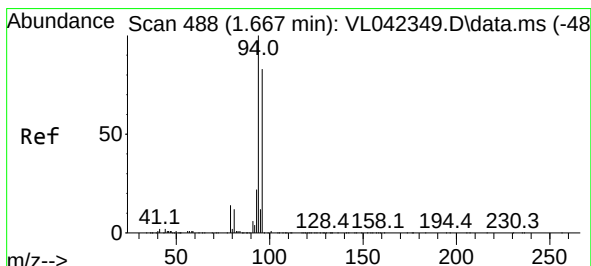
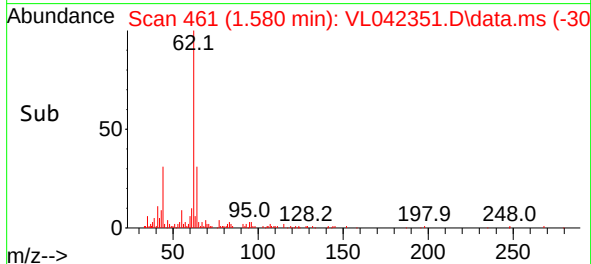
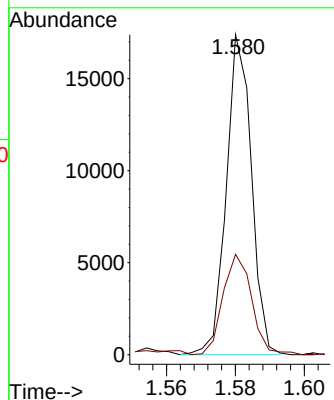
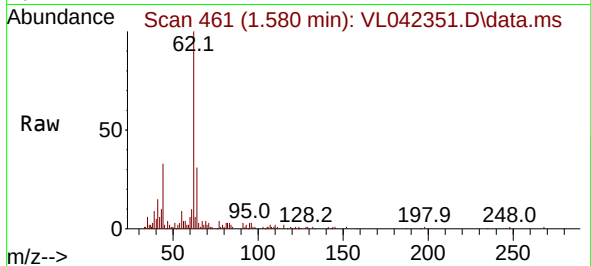




#5
 Vinyl Chloride
 Concen: 0.932 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. 0.000 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48

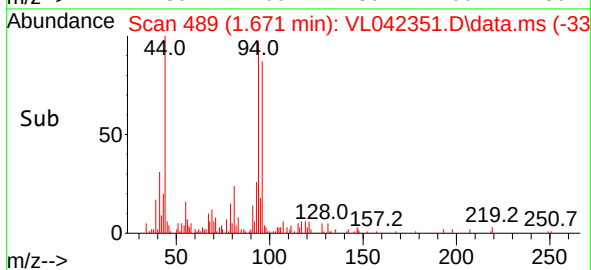
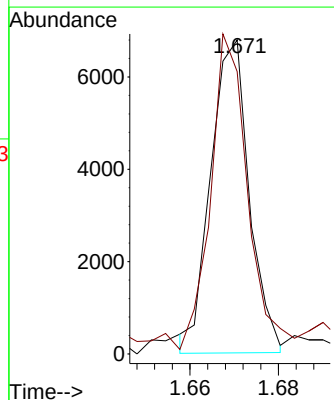
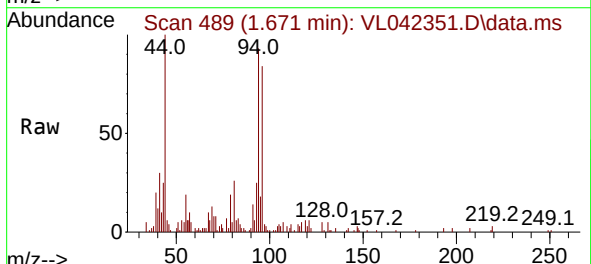
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

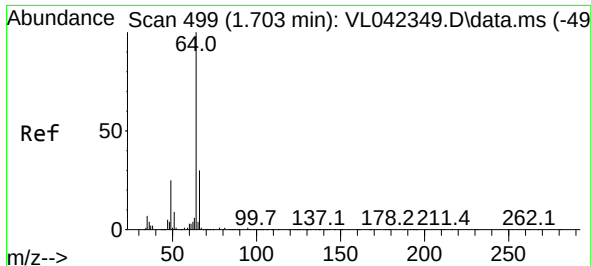
Tgt Ion: 62 Resp: 8807
 Ion Ratio Lower Upper
 62 100
 64 30.5 25.4 38.0



#6
 Bromomethane
 Concen: 1.001 ppbv
 RT: 1.671 min Scan# 489
 Delta R.T. 0.004 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48

Tgt Ion: 94 Resp: 4099
 Ion Ratio Lower Upper
 94 100
 96 91.0 66.2 99.2

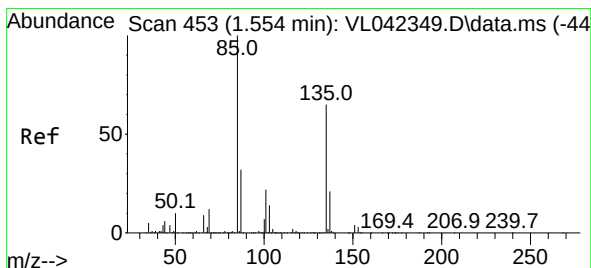
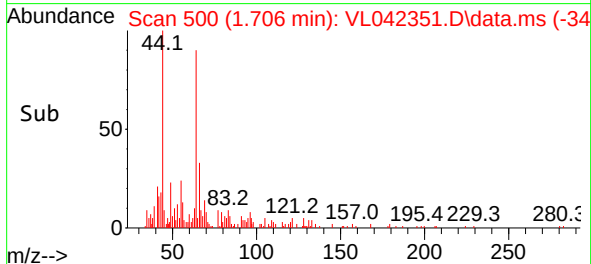
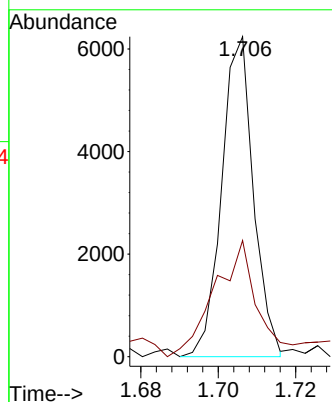
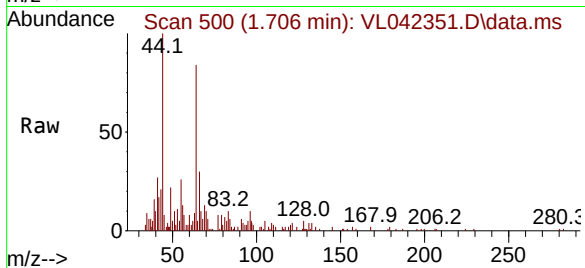




#7
Chloroethane
Concen: 1.041 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

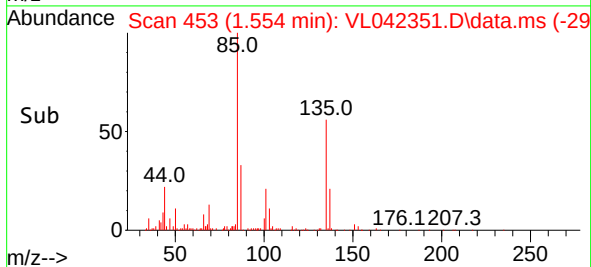
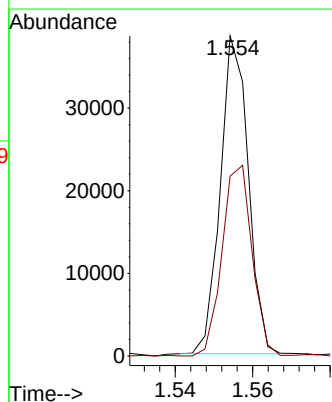
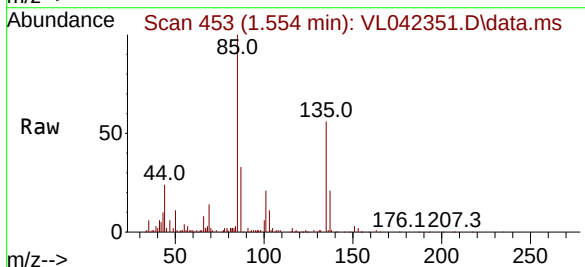
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

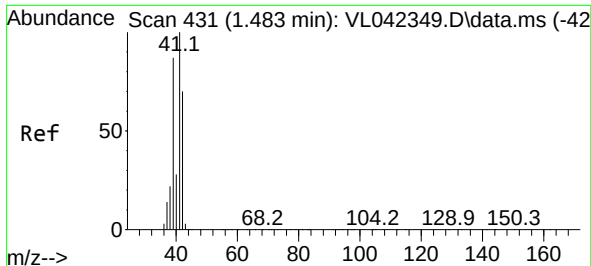
Tgt Ion: 64 Resp: 3559
Ion Ratio Lower Upper
64 100
66 36.3 24.6 37.0



#8
Dichlorotetrafluoroethane
Concen: 1.022 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 85 Resp: 19251
Ion Ratio Lower Upper
85 100
135 65.2 52.2 78.2





#9

Propene

Concen: 1.040 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.004 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Instrument :

MSVOA_L

ClientSampleId :

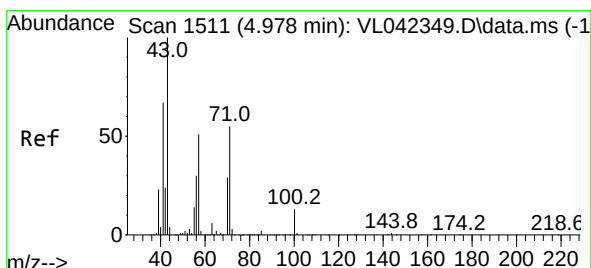
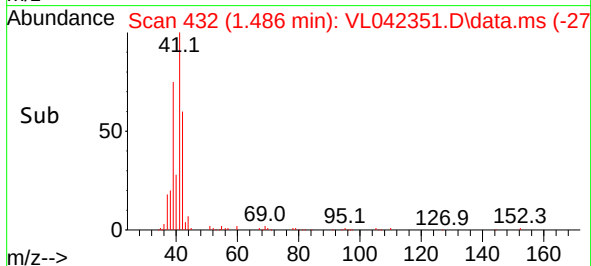
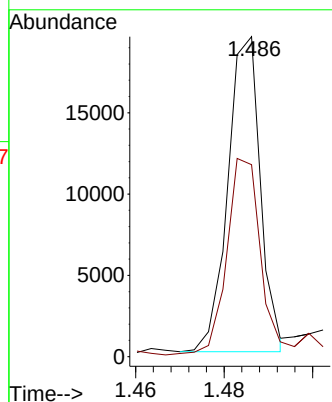
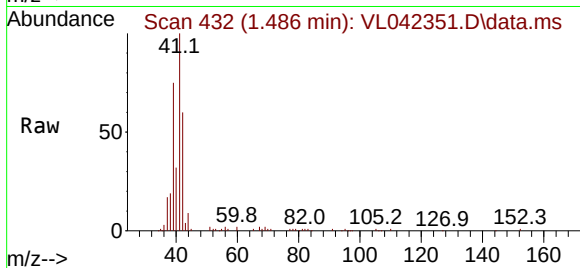
VSTDIC001

Tgt Ion: 41 Resp: 9892

Ion Ratio Lower Upper

41 100

42 77.2 56.2 84.4



#10

Heptane

Concen: 0.633 ppbv

RT: 4.982 min Scan# 1512

Delta R.T. 0.004 min

Lab File: VL042351.D

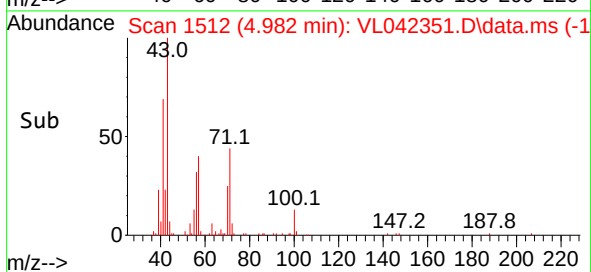
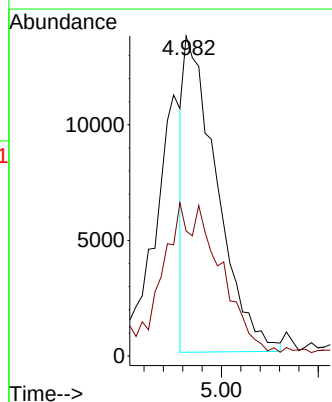
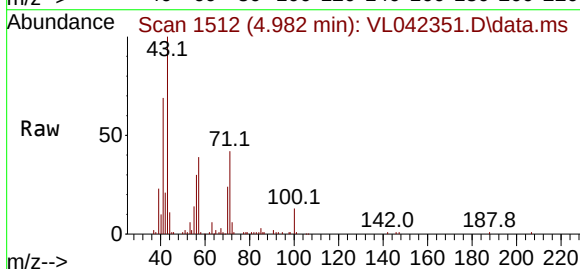
Acq: 17 Apr 2025 10:48

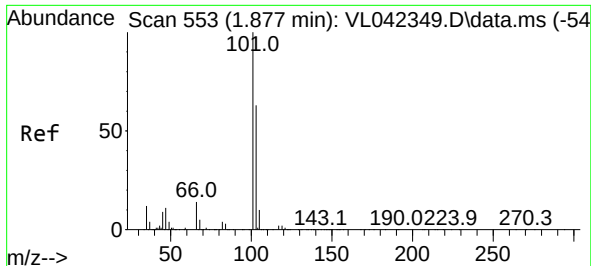
Tgt Ion: 43 Resp: 16193

Ion Ratio Lower Upper

43 100

57 84.7 39.9 59.9#

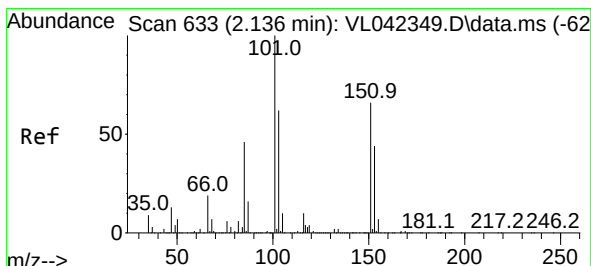
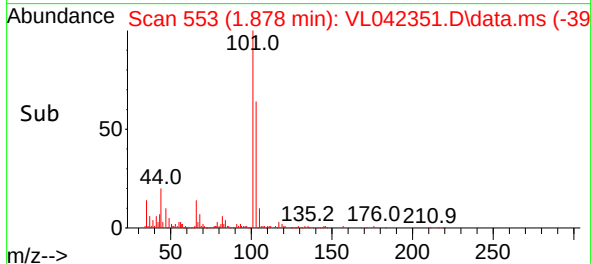
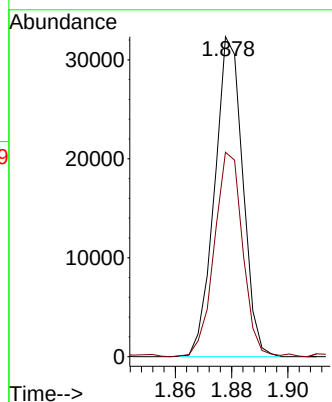
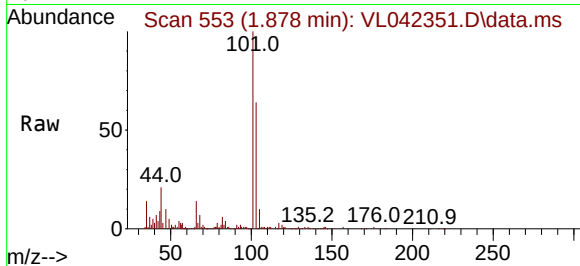




#11
 Trichlorofluoromethane
 Concen: 1.075 ppbv
 RT: 1.878 min Scan# 51
 Delta R.T. 0.000 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48

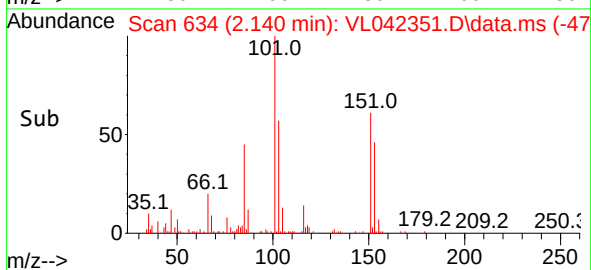
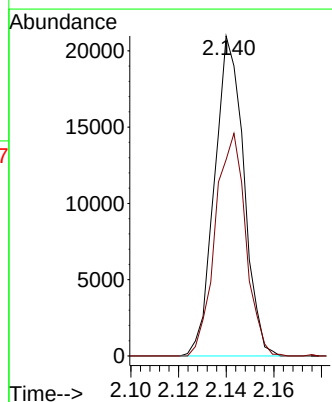
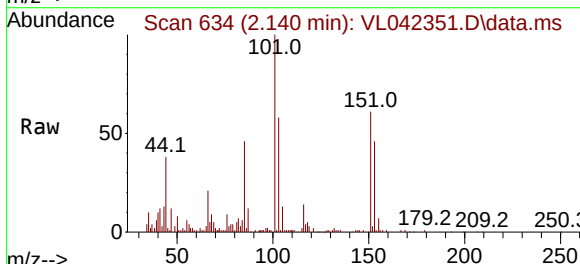
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

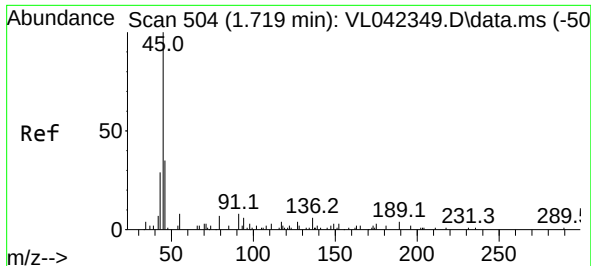
Tgt Ion:101 Resp: 22428
 Ion Ratio Lower Upper
 101 100
 103 63.6 50.1 75.1



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 1.047 ppbv
 RT: 2.140 min Scan# 634
 Delta R.T. 0.004 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48

Tgt Ion:101 Resp: 17865
 Ion Ratio Lower Upper
 101 100
 151 72.6 57.0 85.6

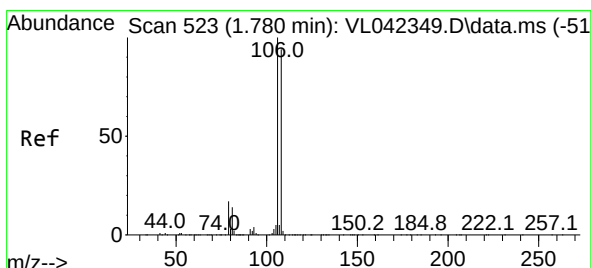
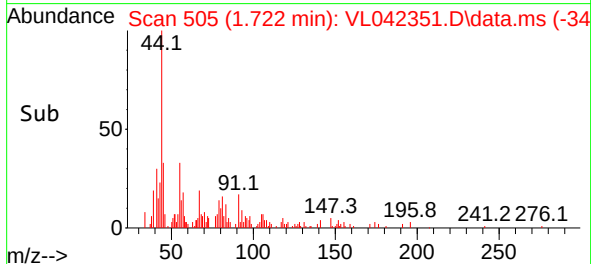
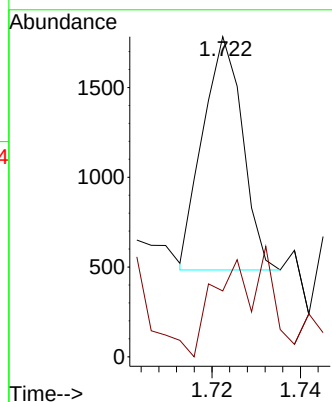
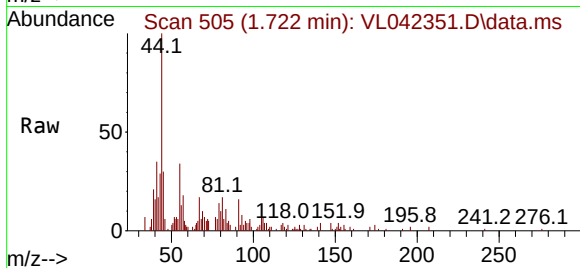




#13
Ethanol
Concen: 1.042 ppbv
RT: 1.722 min Scan# 504
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

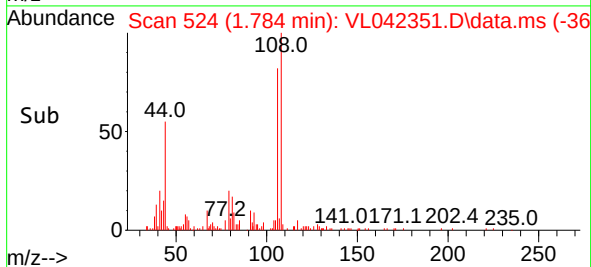
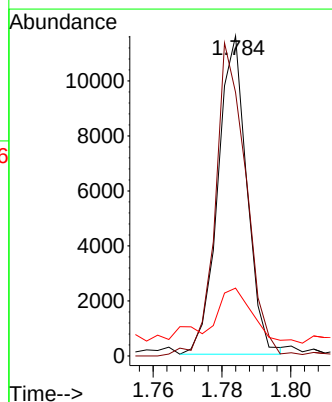
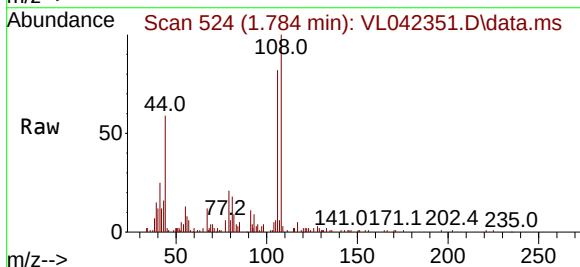
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

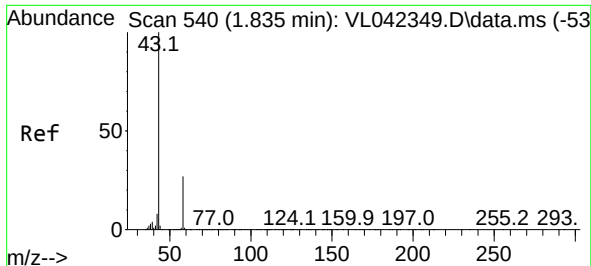
Tgt Ion: 45 Resp: 810
Ion Ratio Lower Upper
45 100
46 95.8 21.9 87.7#



#14
Bromoethene
Concen: 1.052 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 108 Resp: 6766
Ion Ratio Lower Upper
108 100
106 104.7 85.9 128.9
79 45.4 13.9 20.9#





#15

Acetone

Concen: 1.158 ppbv

RT: 1.839 min Scan# 54

Delta R.T. 0.004 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Instrument :

MSVOA_L

ClientSampleId :

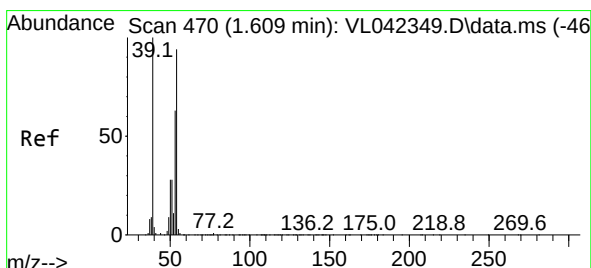
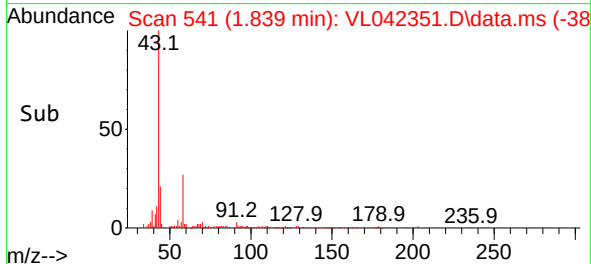
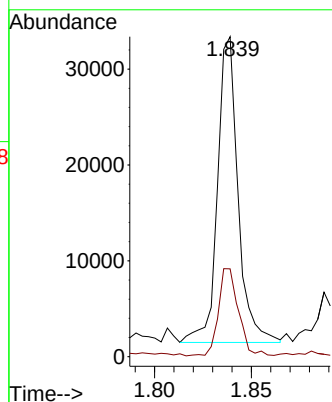
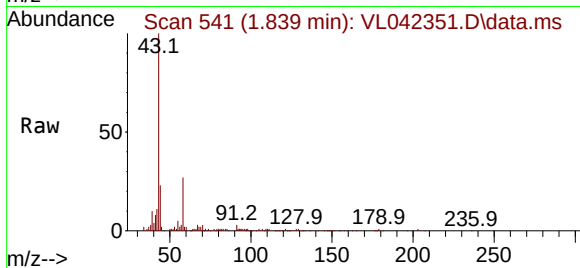
VSTDIC001

Tgt Ion: 43 Resp: 23537

Ion Ratio Lower Upper

43 100

58 29.4 22.4 33.6



#16

1,3-Butadiene

Concen: 0.995 ppbv

RT: 1.609 min Scan# 470

Delta R.T. 0.000 min

Lab File: VL042351.D

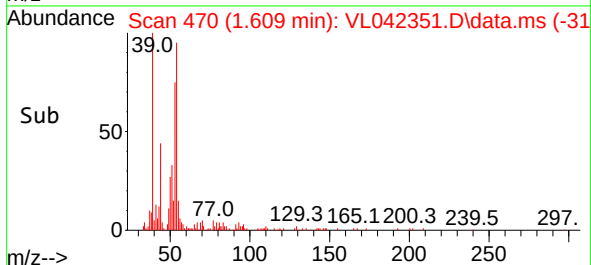
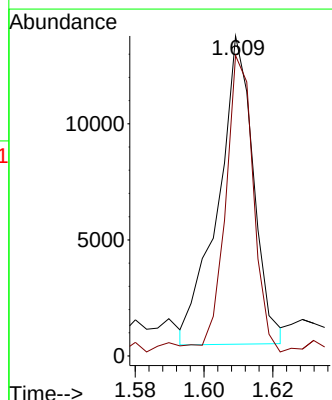
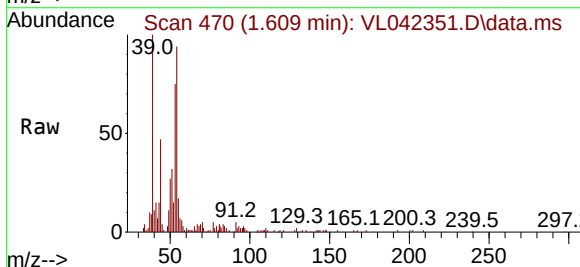
Acq: 17 Apr 2025 10:48

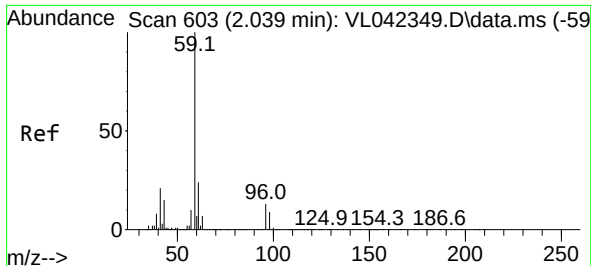
Tgt Ion: 39 Resp: 9495

Ion Ratio Lower Upper

39 100

54 77.6 64.9 97.3

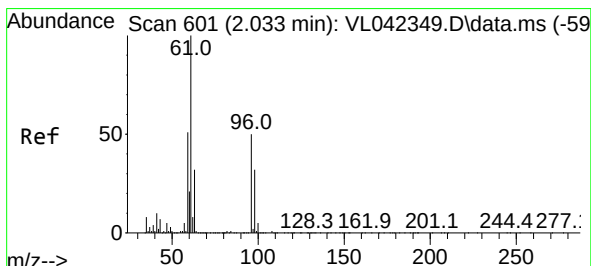
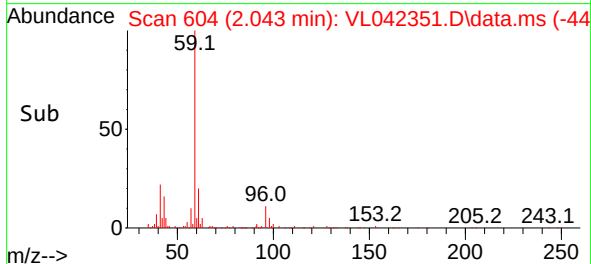
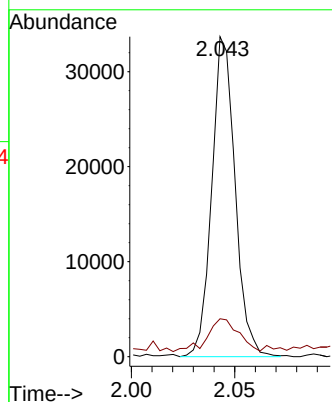
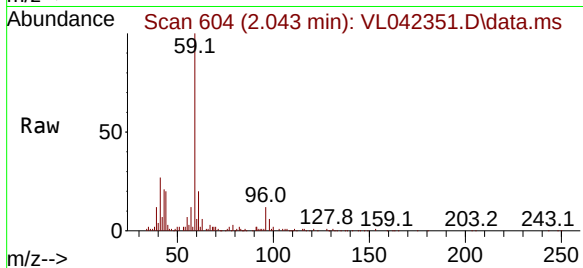




#17
tert-Butyl alcohol
Concen: 1.051 ppbv
RT: 2.043 min Scan# 603
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

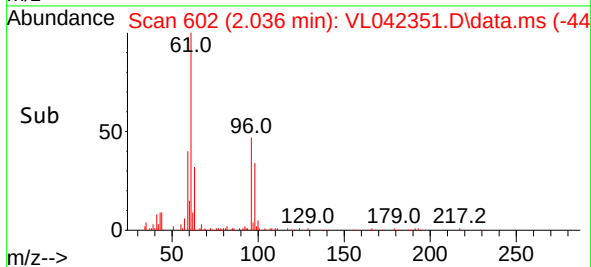
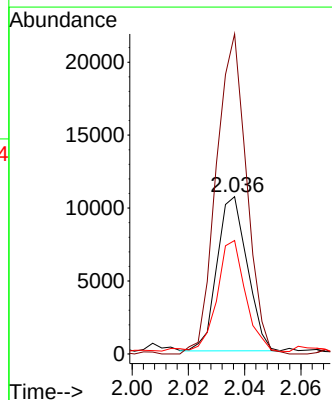
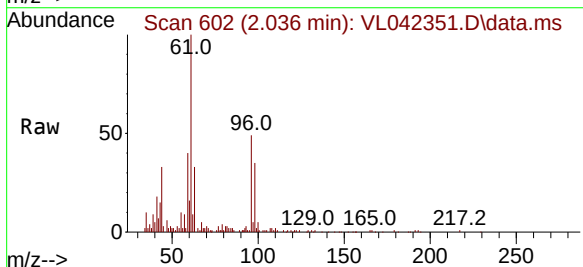
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

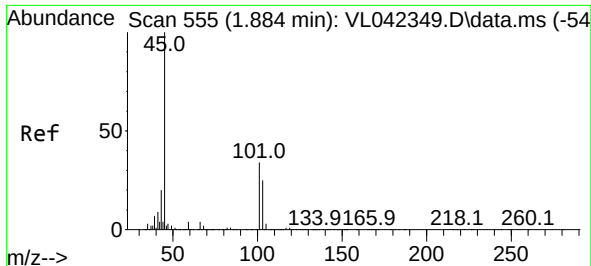
Tgt Ion: 59 Resp: 26477
Ion Ratio Lower Upper
59 100
57 14.6 8.7 13.1#



#18
1,1-Dichloroethene
Concen: 0.962 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 96 Resp: 7890
Ion Ratio Lower Upper
96 100
61 207.8 160.2 240.2
98 71.9 51.0 76.4

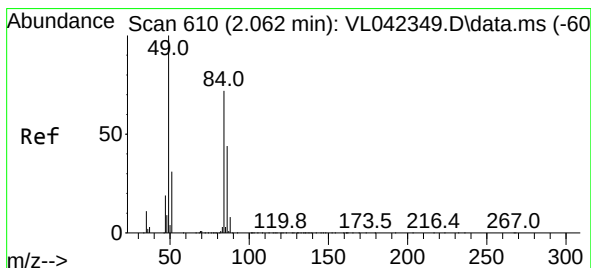
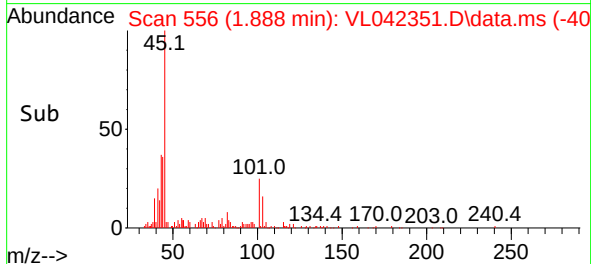
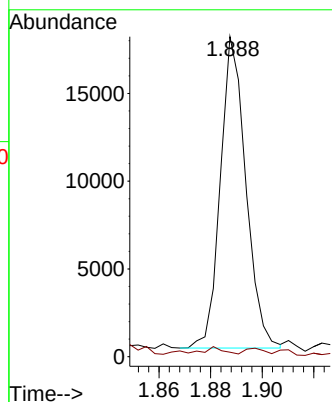
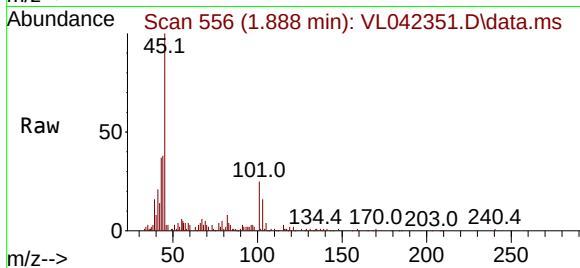




#19
Isopropyl Alcohol
Concen: 1.078 ppbv
RT: 1.888 min Scan# 511
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

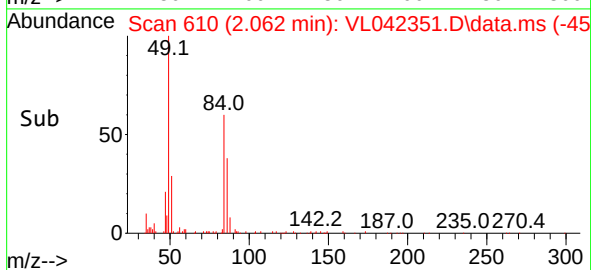
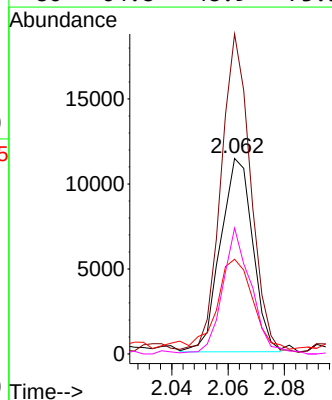
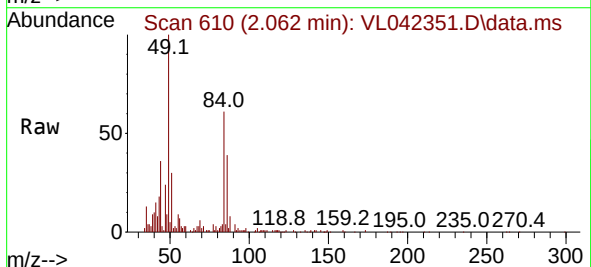
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

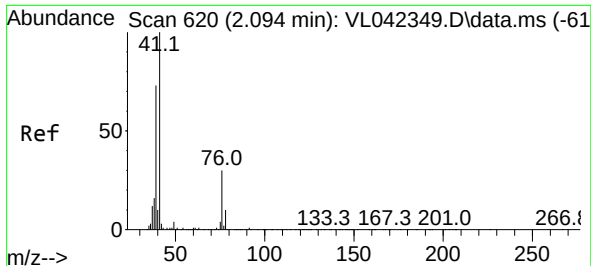
Tgt Ion: 45 Resp: 12175
Ion Ratio Lower Upper
45 100
58 3.8 34.5 51.7#



#20
Methylene Chloride
Concen: 1.136 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 84 Resp: 9046
Ion Ratio Lower Upper
84 100
49 164.4 111.6 167.4
51 44.4 35.1 52.7
86 64.8 48.9 73.3

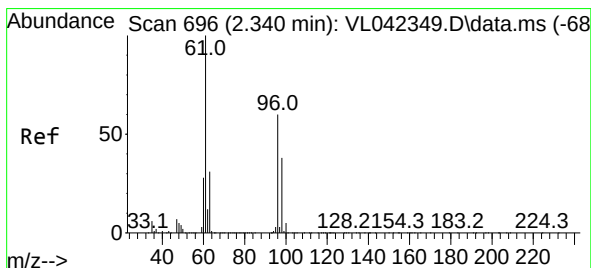
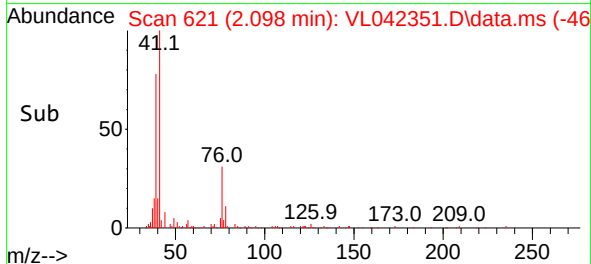
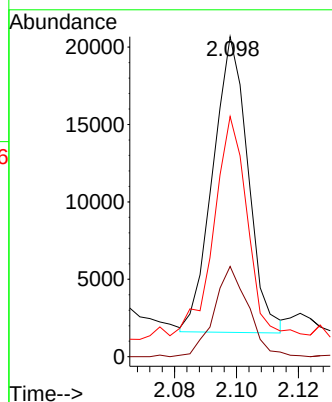
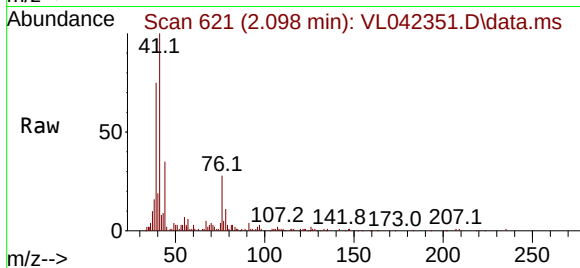




#21
 Allyl Chloride
 Concen: 1.073 ppbv
 RT: 2.098 min Scan# 61
 Delta R.T. 0.004 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48

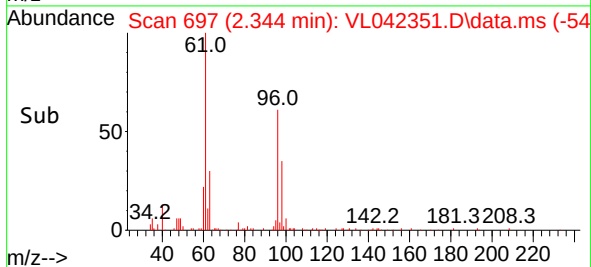
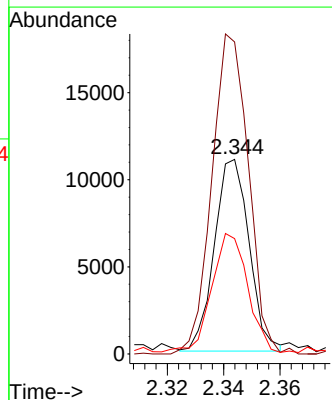
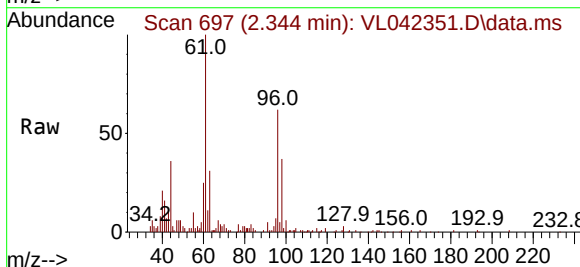
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

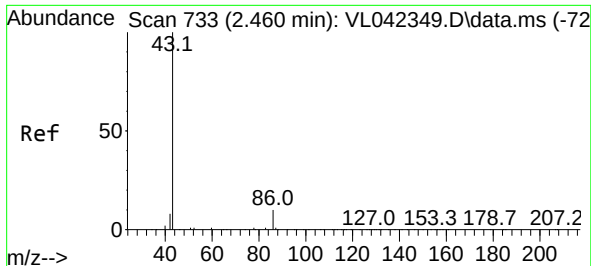
Tgt Ion: 41 Resp: 15057
 Ion Ratio Lower Upper
 41 100
 76 29.8 24.8 37.2
 39 86.1 60.6 90.8



#22
 trans-1,2-Dichloroethene
 Concen: 1.038 ppbv
 RT: 2.344 min Scan# 697
 Delta R.T. 0.004 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48

Tgt Ion: 96 Resp: 9421
 Ion Ratio Lower Upper
 96 100
 61 161.7 133.7 200.5
 98 59.8 50.3 75.5

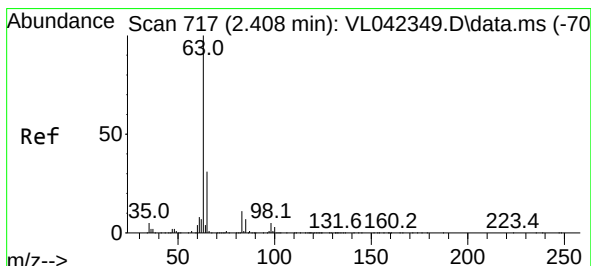
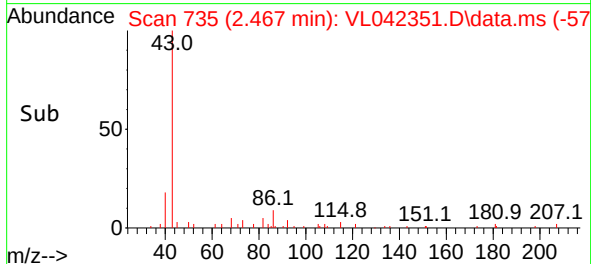
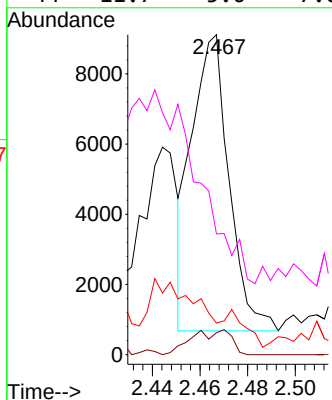
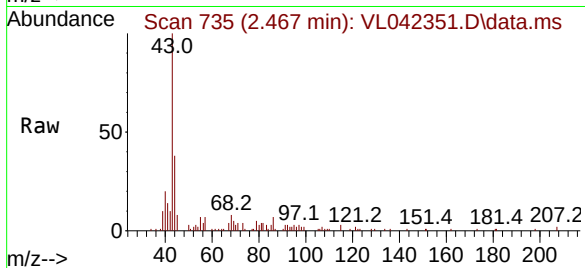




#23
 Vinyl Acetate
 Concen: 1.122 ppbv
 RT: 2.467 min Scan# 717
 Delta R.T. 0.007 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48

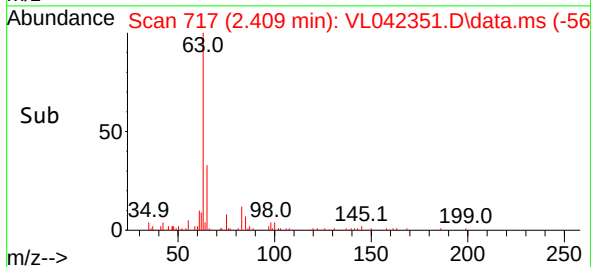
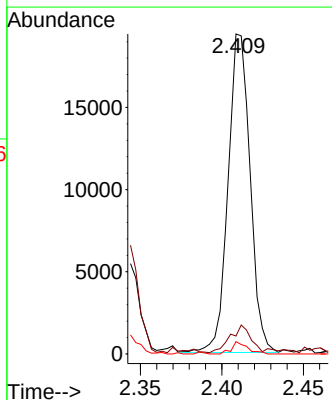
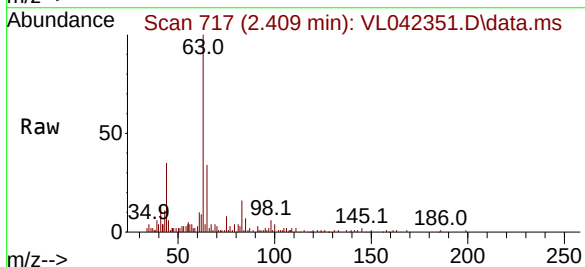
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

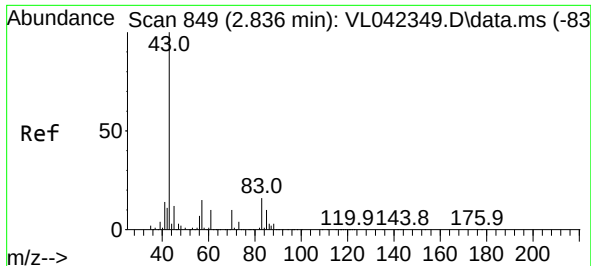
Tgt Ion:	43	Resp:	9234
Ion	Ratio	Lower	Upper
43	100		
86	7.4	6.5	9.7
42	4.6	7.8	11.8#
44	11.7	5.0	7.6#



#24
 1,1-Dichloroethane
 Concen: 1.058 ppbv
 RT: 2.409 min Scan# 717
 Delta R.T. 0.000 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48

Tgt Ion:	63	Resp:	18236
Ion	Ratio	Lower	Upper
63	100		
98	4.7	2.3	6.8
100	3.9	1.6	4.8

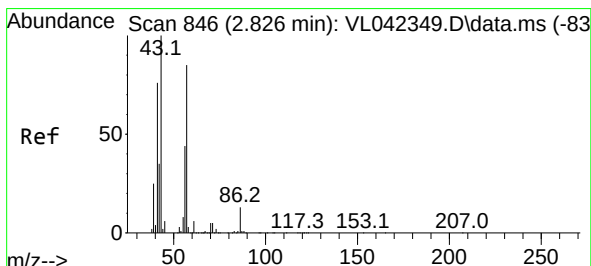
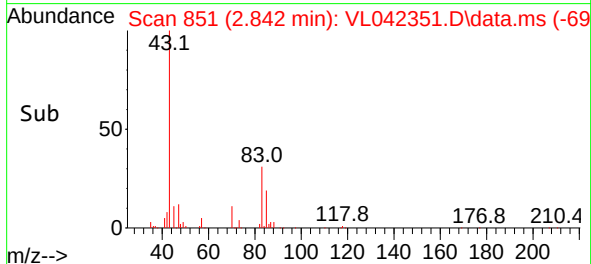
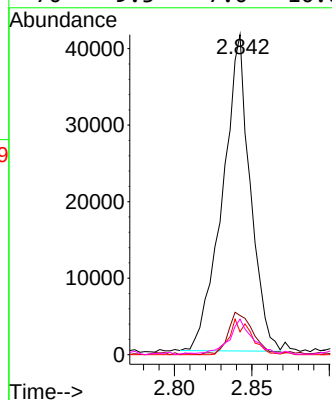
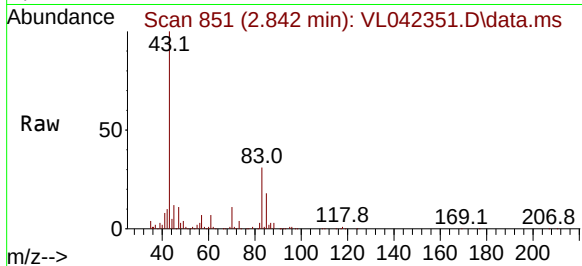




#25
Ethyl Acetate
Concen: 1.027 ppbv
RT: 2.842 min Scan# 849
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

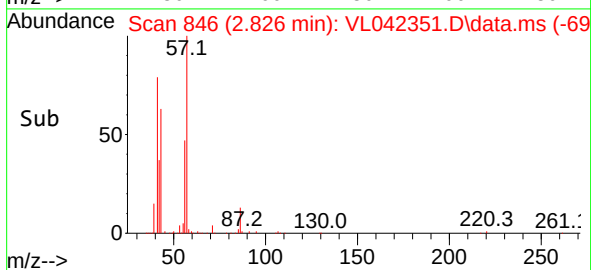
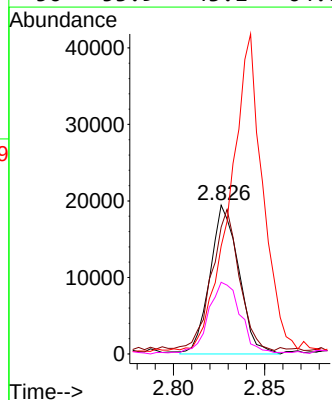
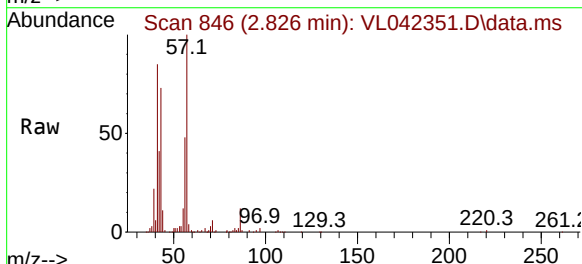
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

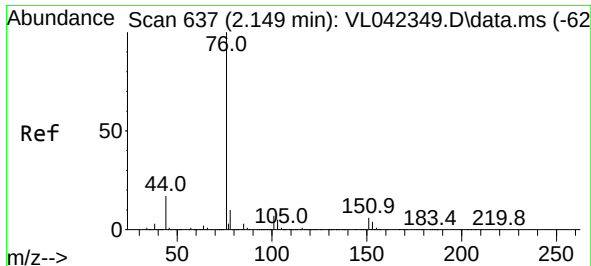
Tgt Ion: 43 Resp: 51494
Ion Ratio Lower Upper
43 100
45 13.1 8.3 12.5#
61 9.0 7.3 10.9
70 9.3 7.0 10.6



#26
Hexane
Concen: 1.053 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 57 Resp: 21350
Ion Ratio Lower Upper
57 100
41 95.3 77.9 116.9
43 247.5 208.4 312.6
56 53.9 43.1 64.7





#27

Carbon Disulfide

Concen: 0.955 ppbv

RT: 2.153 min Scan# 61

Delta R.T. 0.004 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC001

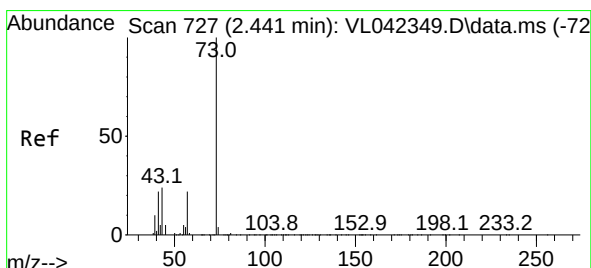
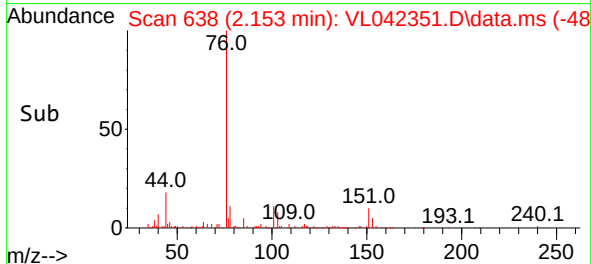
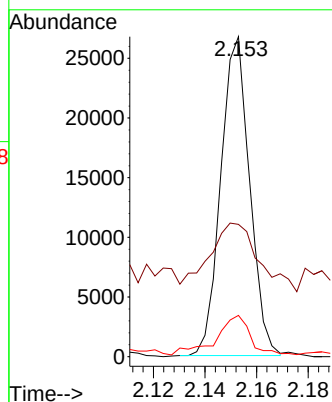
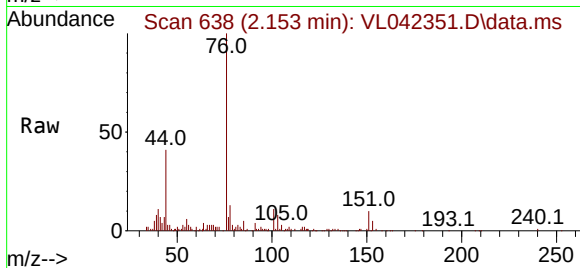
Tgt Ion: 76 Resp: 20739

Ion Ratio Lower Upper

76 100

44 93.1 15.5 23.3#

78 19.8 9.3 13.9#



#28

Methyl tert-Butyl Ether

Concen: 1.066 ppbv

RT: 2.444 min Scan# 728

Delta R.T. 0.004 min

Lab File: VL042351.D

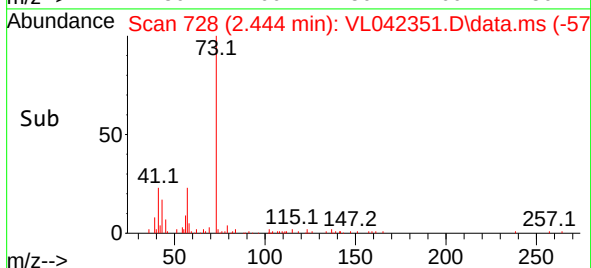
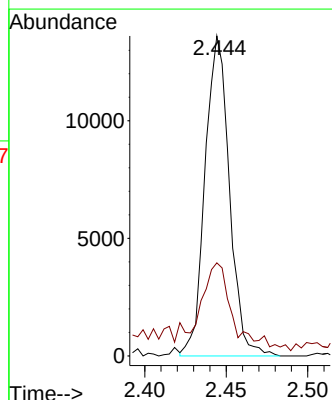
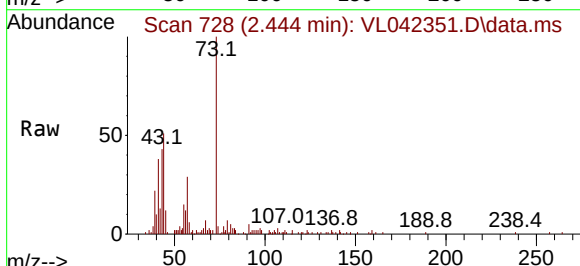
Acq: 17 Apr 2025 10:48

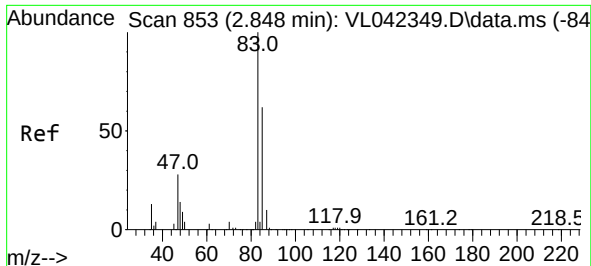
Tgt Ion: 73 Resp: 14164

Ion Ratio Lower Upper

73 100

57 34.2 21.3 31.9#





#29

Chloroform

Concen: 1.011 ppbv

RT: 2.852 min Scan# 854

Delta R.T. 0.004 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Instrument :

MSVOA_L

ClientSampleId :

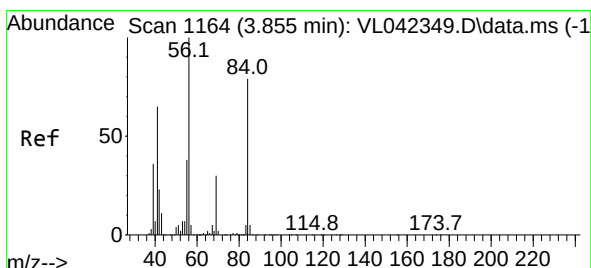
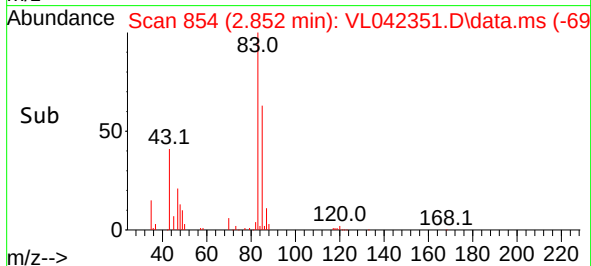
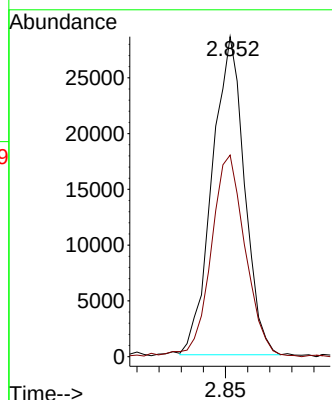
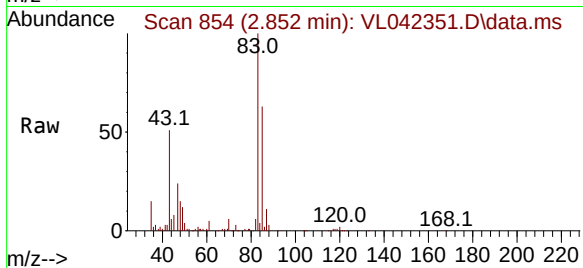
VSTDIC001

Tgt Ion: 83 Resp: 28973

Ion Ratio Lower Upper

83 100

85 62.6 50.0 75.0



#30

Cyclohexane

Concen: 0.516 ppbv

RT: 3.862 min Scan# 1166

Delta R.T. 0.007 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

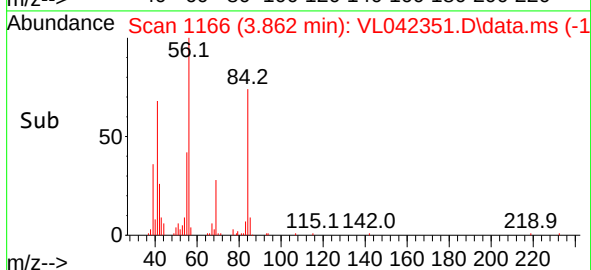
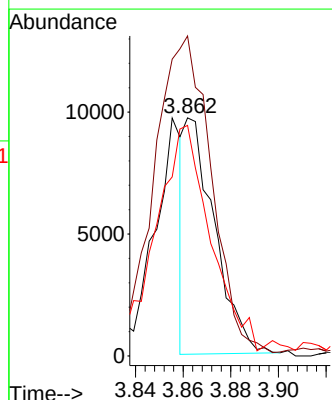
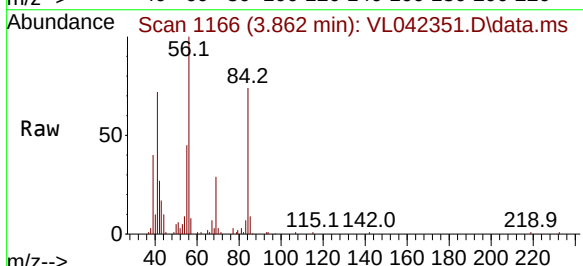
Tgt Ion: 84 Resp: 8430

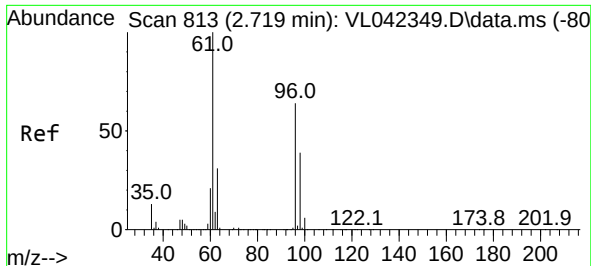
Ion Ratio Lower Upper

84 100

56 263.5 101.0 151.4#

41 167.0 67.4 101.0#

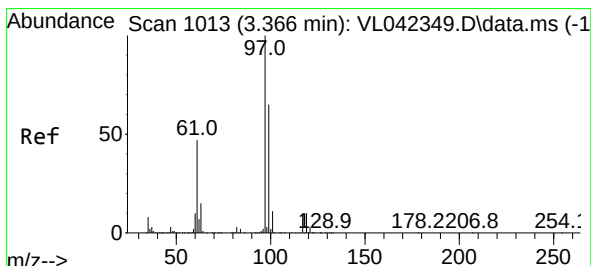
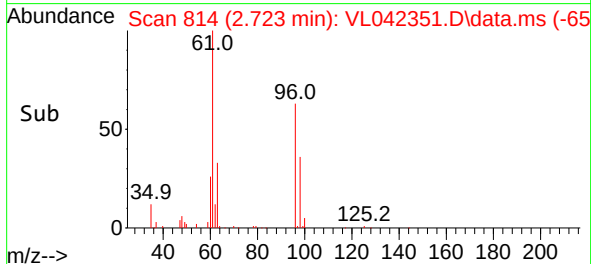
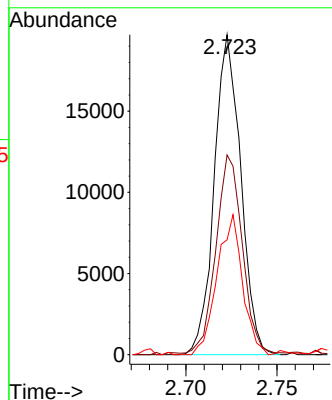
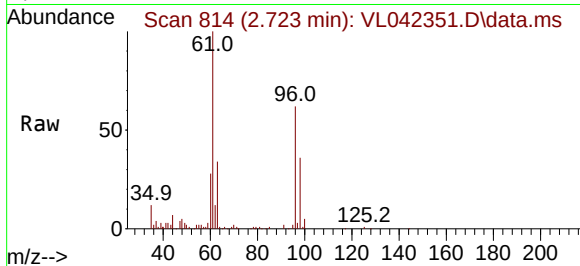




#31
 cis-1,2-Dichloroethene
 Concen: 1.032 ppbv
 RT: 2.723 min Scan# 813
 Delta R.T. 0.004 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48

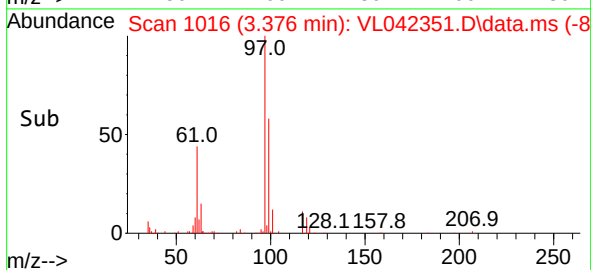
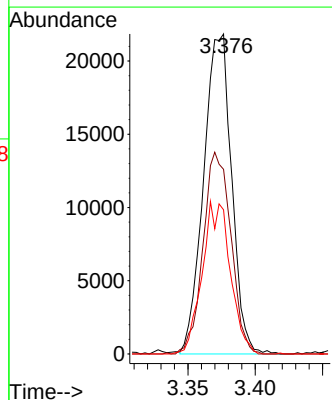
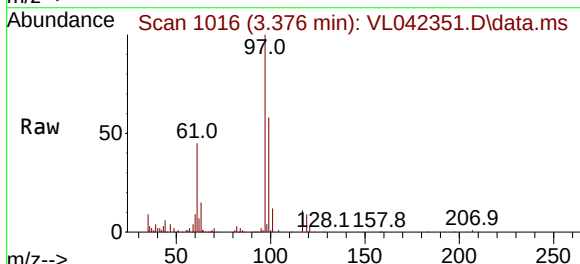
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

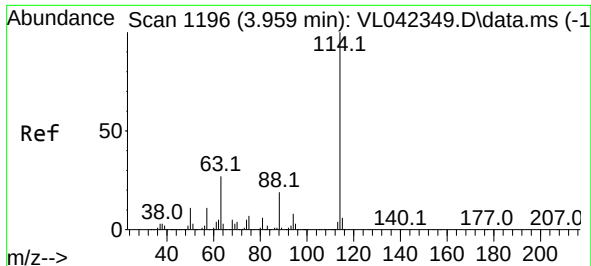
Tgt Ion: 61 Resp: 19904
 Ion Ratio Lower Upper
 61 100
 96 61.9 50.8 76.2
 98 35.9 30.9 46.3



#32
 1,1,1-Trichloroethane
 Concen: 1.030 ppbv
 RT: 3.376 min Scan# 1016
 Delta R.T. 0.010 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48

Tgt Ion: 97 Resp: 31653
 Ion Ratio Lower Upper
 97 100
 99 62.4 51.0 76.4
 61 47.6 38.8 58.2

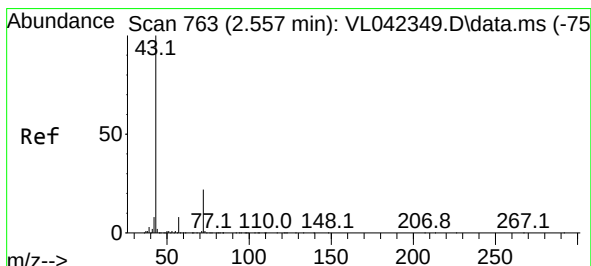
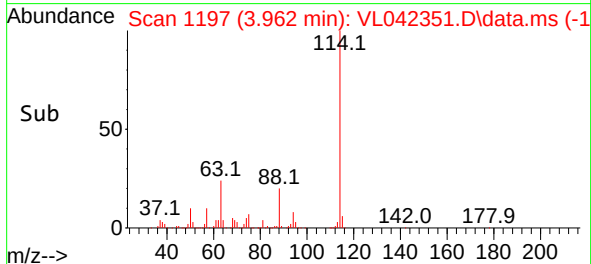
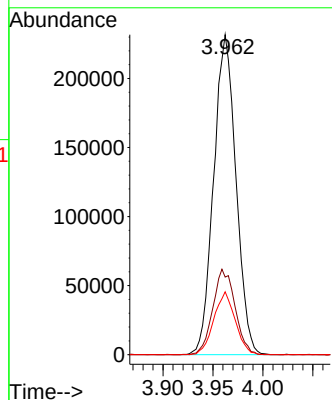
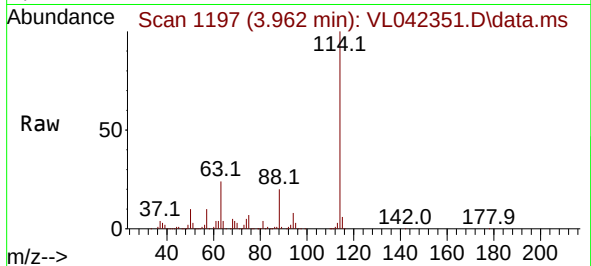




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1196
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

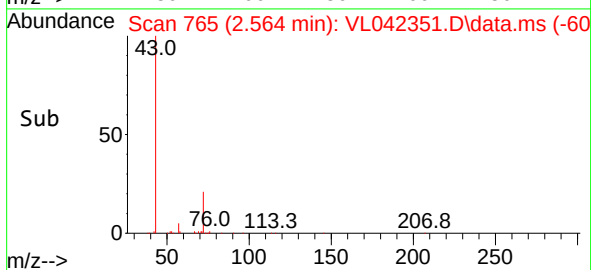
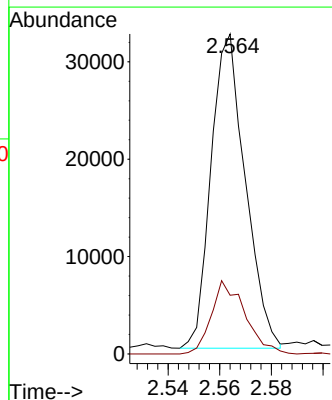
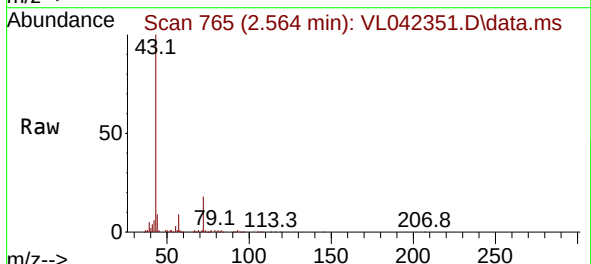
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

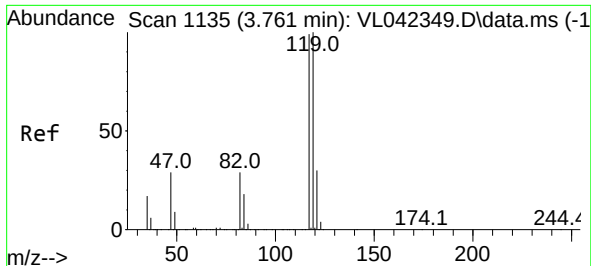
Tgt Ion:114 Resp: 359907
Ion Ratio Lower Upper
114 100
63 26.7 21.8 32.6
88 18.8 15.5 23.3



#34
2-Butanone
Concen: 1.045 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 43 Resp: 29735
Ion Ratio Lower Upper
43 100
72 23.1 18.2 27.2

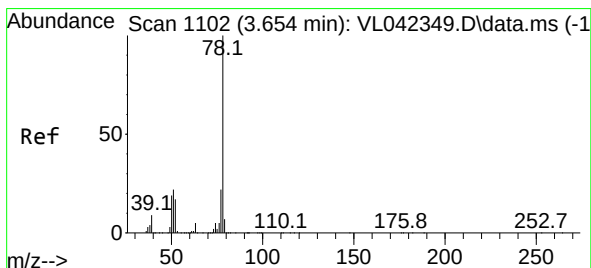
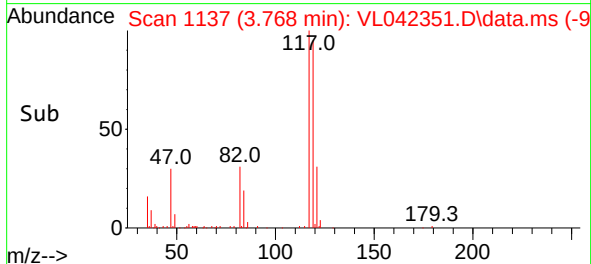
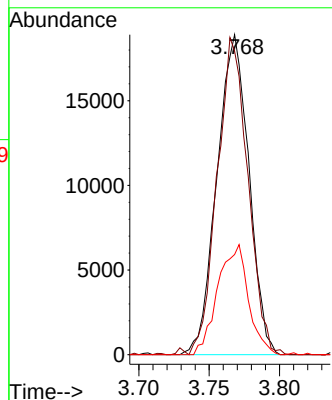
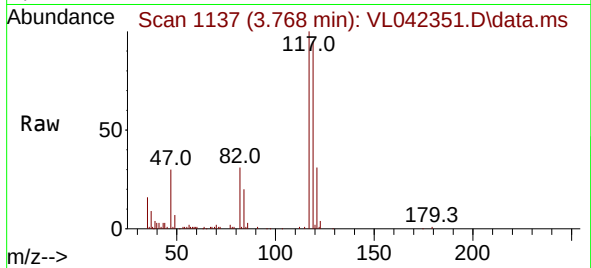




#35
Carbon Tetrachloride
Concen: 0.917 ppbv
RT: 3.768 min Scan# 1137
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

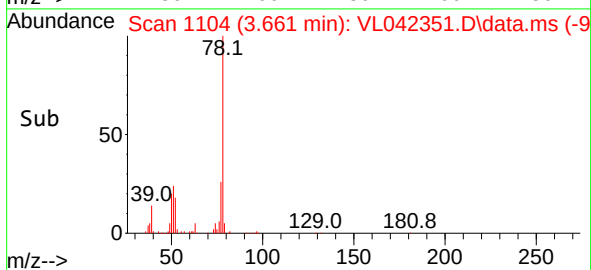
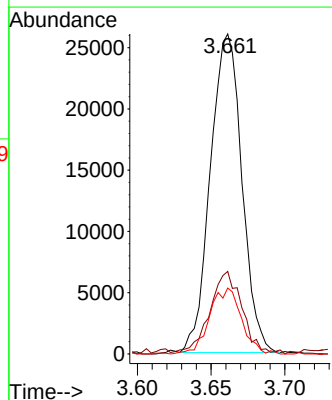
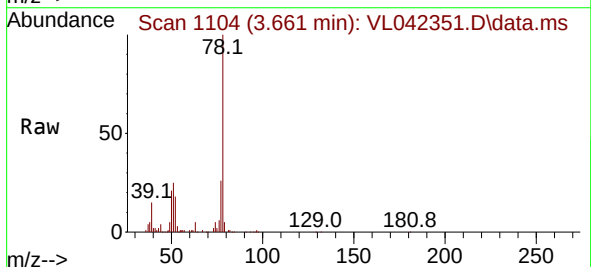
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

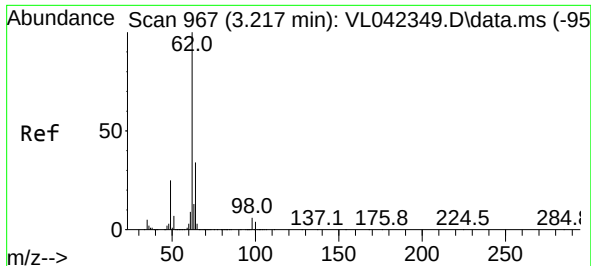
Tgt Ion:117 Resp: 29875
Ion Ratio Lower Upper
117 100
119 93.3 80.5 120.7
121 31.3 24.2 36.2



#36
Benzene
Concen: 0.997 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 78 Resp: 38707
Ion Ratio Lower Upper
78 100
77 24.7 17.4 26.0
50 20.7 15.5 23.3





#37

1,2-Dichloroethane

Concen: 0.999 ppbv

RT: 3.224 min Scan# 9

Delta R.T. 0.007 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Instrument :

MSVOA_1

ClientSampleId :

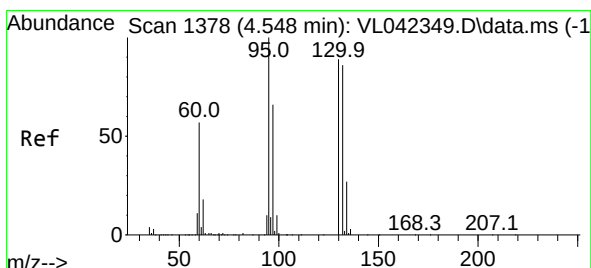
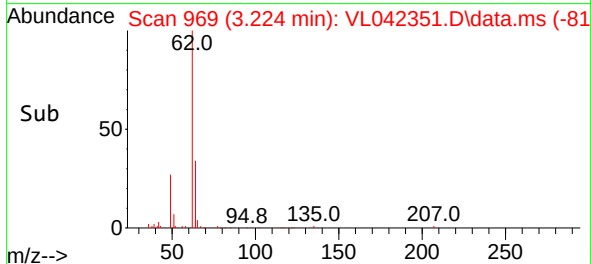
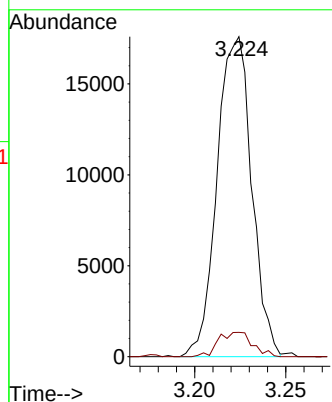
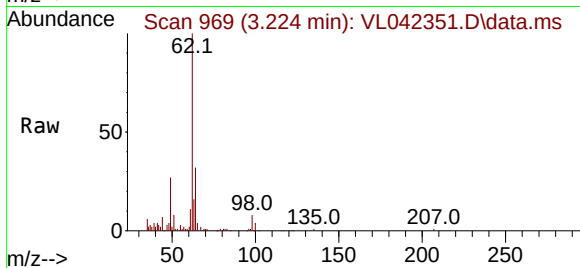
VSTDIC001

Tgt Ion: 62 Resp: 23284

Ion Ratio Lower Upper

62 100

98 7.5 5.1 7.7



#38

Trichloroethene

Concen: 0.947 ppbv

RT: 4.551 min Scan# 1379

Delta R.T. 0.004 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Tgt Ion: 130 Resp: 16119

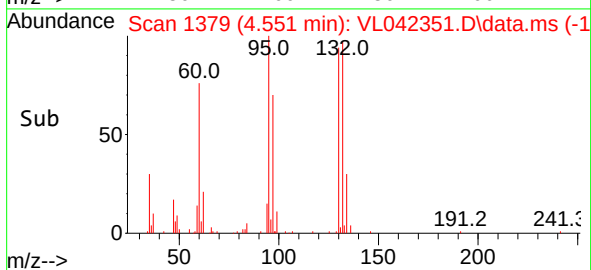
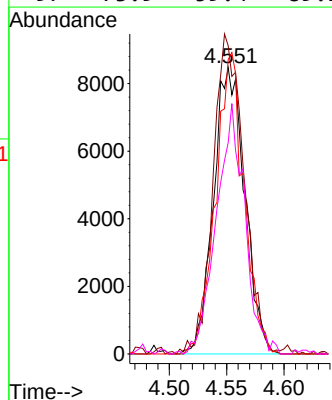
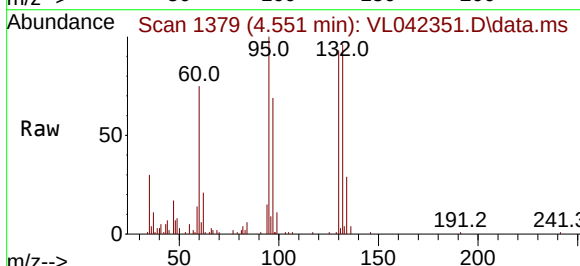
Ion Ratio Lower Upper

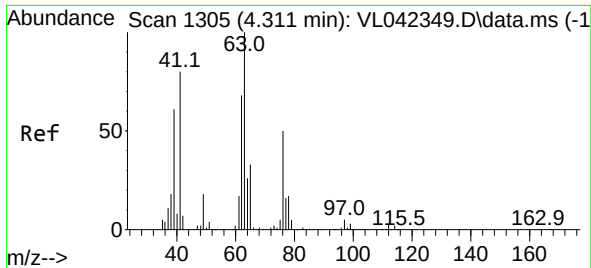
130 100

95 106.6 89.8 134.6

132 102.9 77.7 116.5

97 73.9 59.4 89.2





#39

1,2-Dichloropropane

Concen: 1.027 ppbv

RT: 4.318 min Scan# 1

Delta R.T. 0.007 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

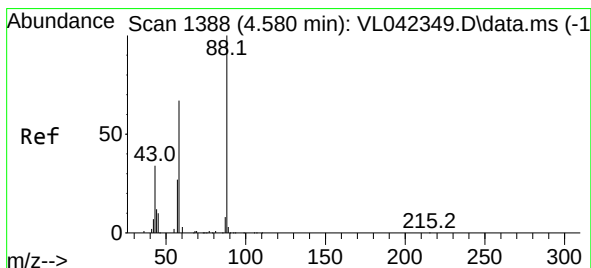
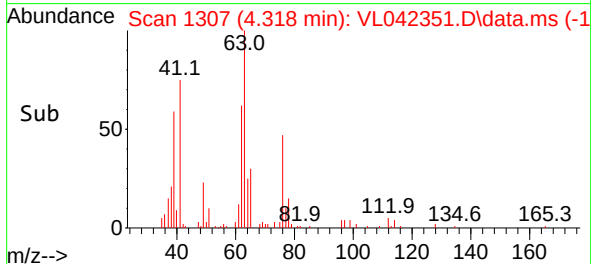
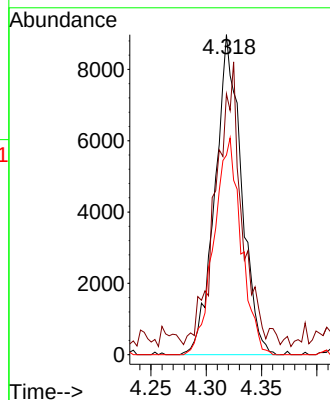
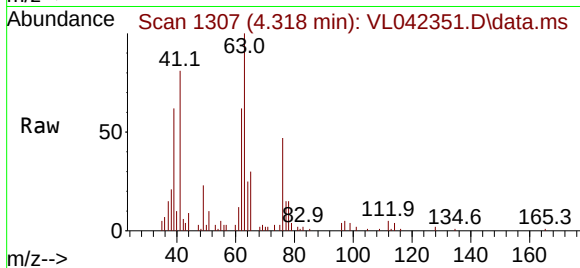
Tgt Ion: 63 Resp: 14866

Ion Ratio Lower Upper

63 100

41 78.3 64.2 96.2

62 62.3 54.3 81.5



#40

1,4-Dioxane

Concen: 0.123 ppbv

RT: 4.603 min Scan# 1395

Delta R.T. 0.023 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Tgt Ion: 88 Resp: 967

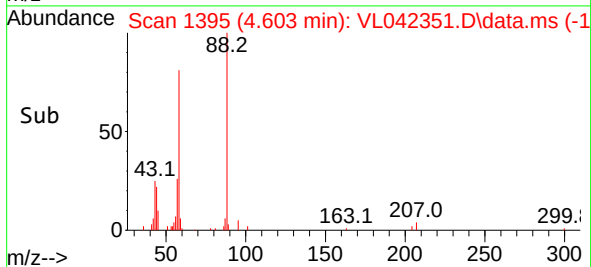
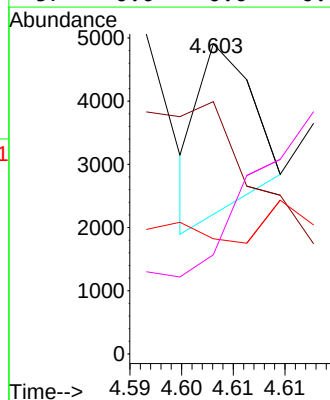
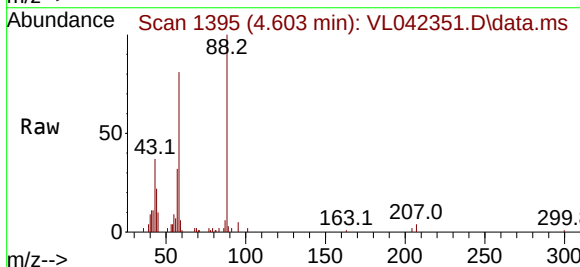
Ion Ratio Lower Upper

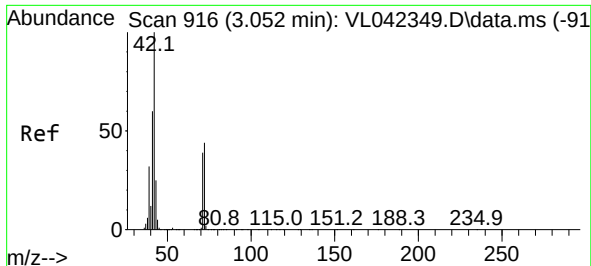
88 100

58 998.9 61.4 92.0#

43 0.0 23.2 34.8#

57 0.0 0.0 0.0

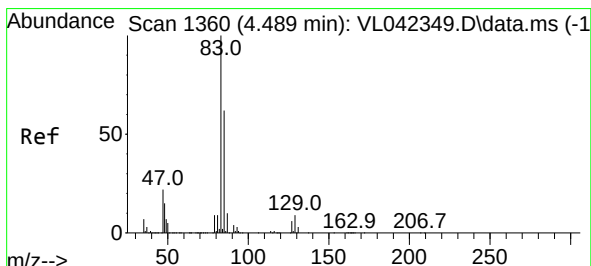
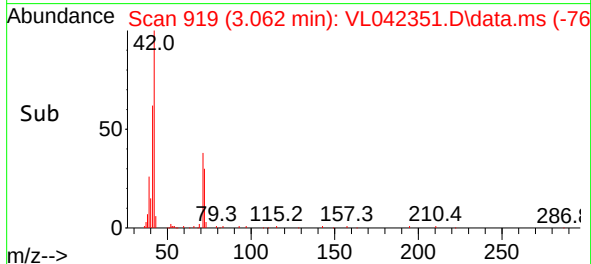
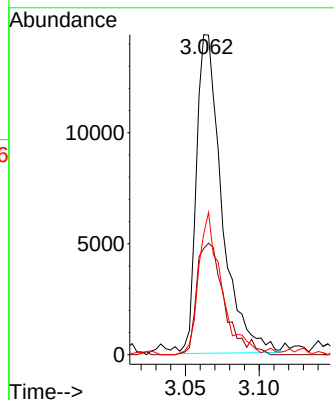
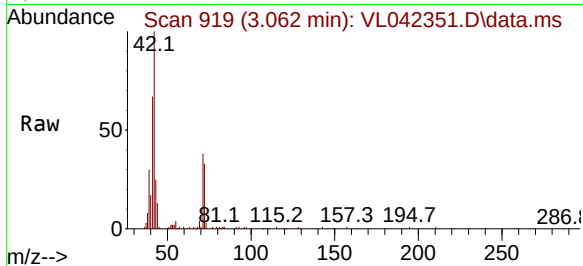




#41
Tetrahydrofuran
Concen: 1.049 ppbv
RT: 3.062 min Scan# 916
Delta R.T. 0.010 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

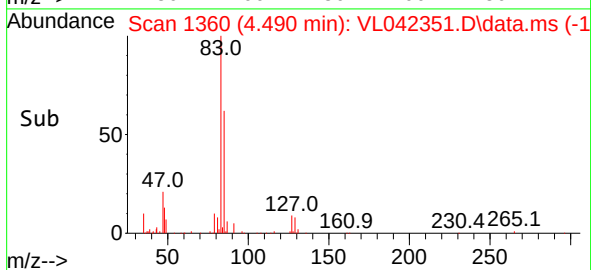
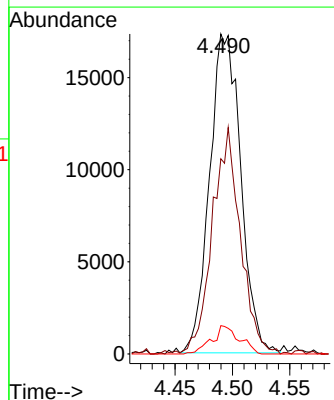
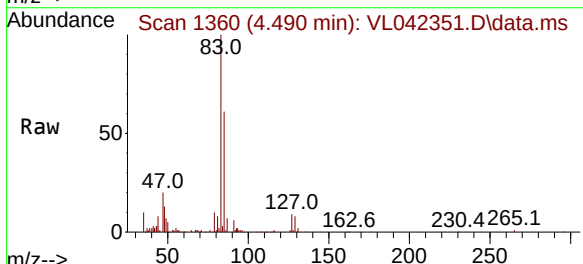
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

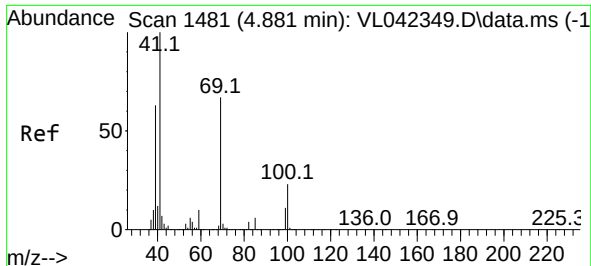
Tgt Ion: 42 Resp: 17259
Ion Ratio Lower Upper
42 100
72 38.1 32.3 48.5
71 42.3 31.4 47.2



#42
Bromodichloromethane
Concen: 1.009 ppbv
RT: 4.490 min Scan# 1360
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 83 Resp: 32721
Ion Ratio Lower Upper
83 100
85 61.2 49.7 74.5
127 8.9 5.1 7.7#

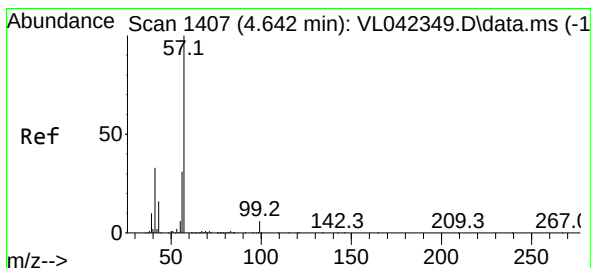
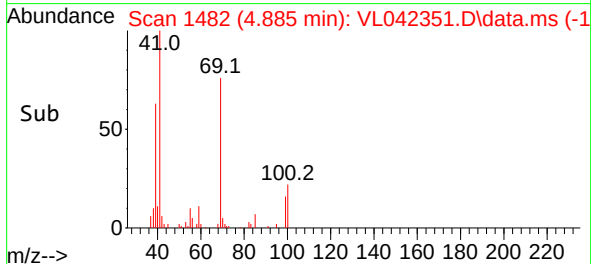
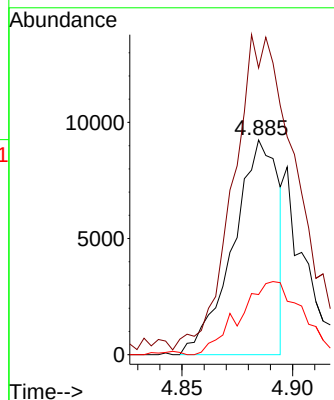
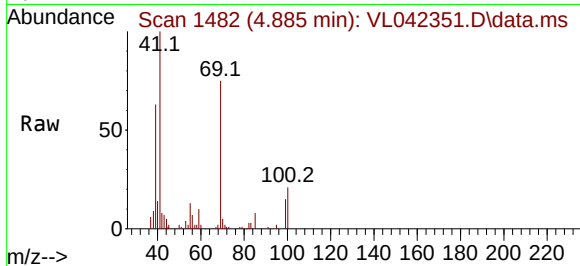




#43
Methyl Methacrylate
Concen: 0.751 ppbv
RT: 4.885 min Scan# 1481
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

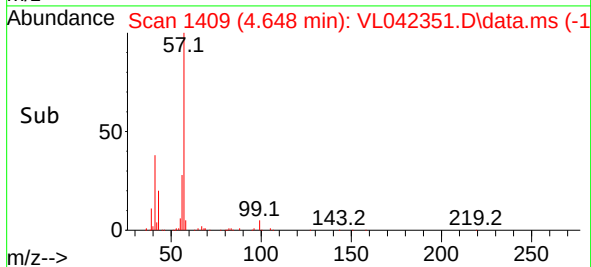
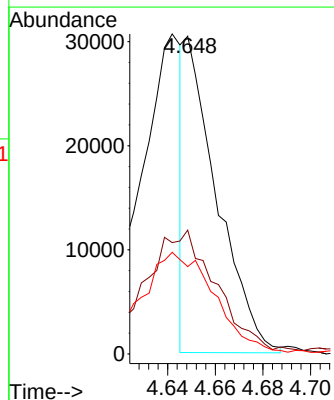
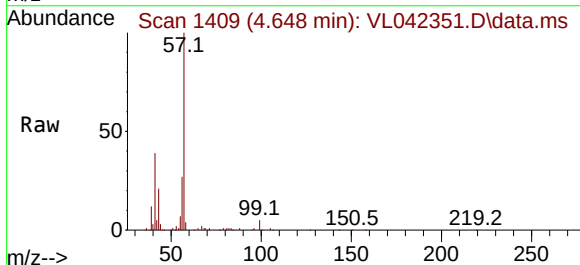
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

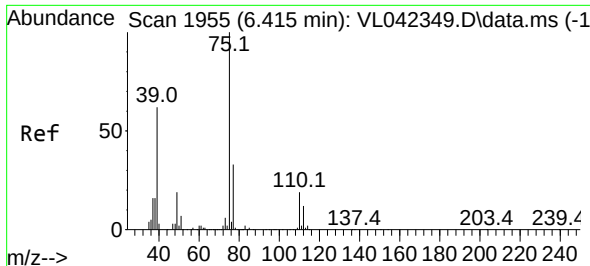
Tgt Ion: 69 Resp: 13084
Ion Ratio Lower Upper
69 100
41 213.4 118.6 177.8#
100 0.0 28.2 42.2#



#44
2,2,4-Trimethylpentane
Concen: 0.427 ppbv
RT: 4.648 min Scan# 1409
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 57 Resp: 28653
Ion Ratio Lower Upper
57 100
41 91.3 27.2 40.8#
56 0.0 25.7 38.5#





#45

t-1,3-Dichloropropene

Concen: 0.658 ppbv

RT: 6.416 min Scan# 1955

Delta R.T. 0.000 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Instrument :

MSVOA_1

ClientSampleId :

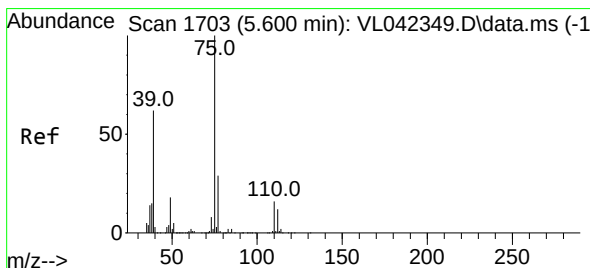
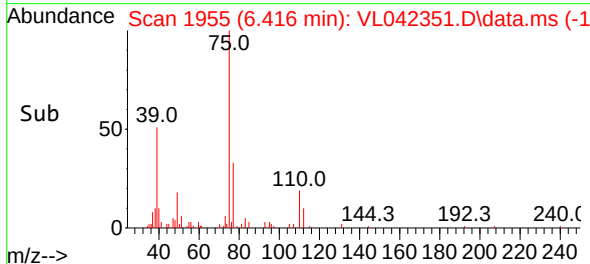
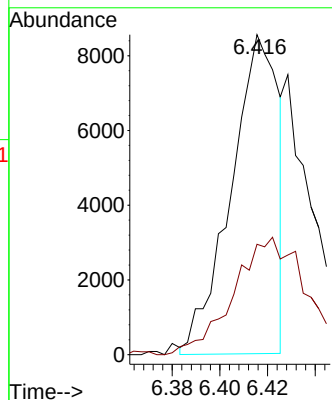
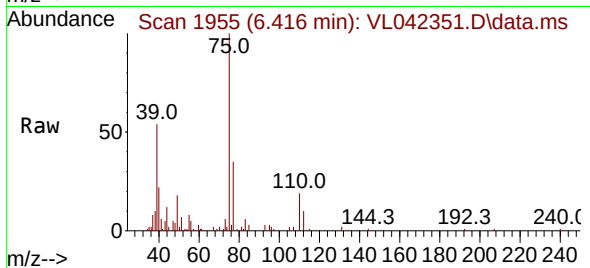
VSTDIC001

Tgt Ion: 75 Resp: 11763

Ion Ratio Lower Upper

75 100

77 34.5 27.0 40.6



#46

cis-1,3-Dichloropropene

Concen: 0.596 ppbv

RT: 5.603 min Scan# 1704

Delta R.T. 0.004 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

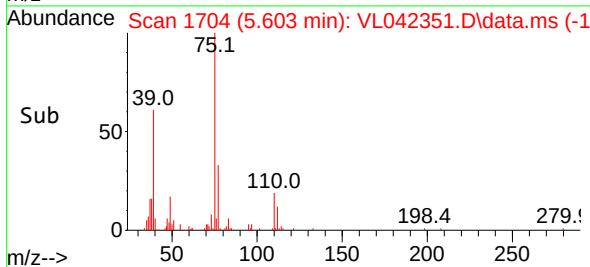
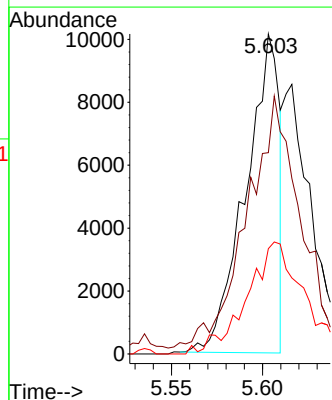
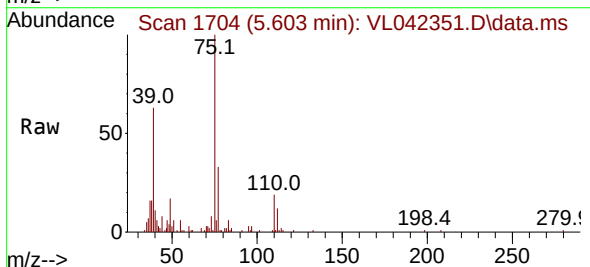
Tgt Ion: 75 Resp: 13028

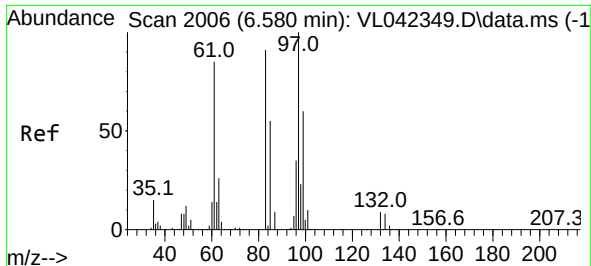
Ion Ratio Lower Upper

75 100

39 59.7 50.0 75.0

77 33.1 23.0 34.6



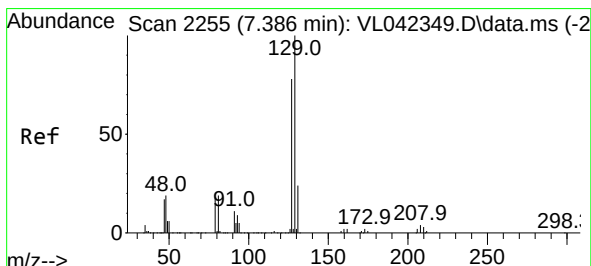
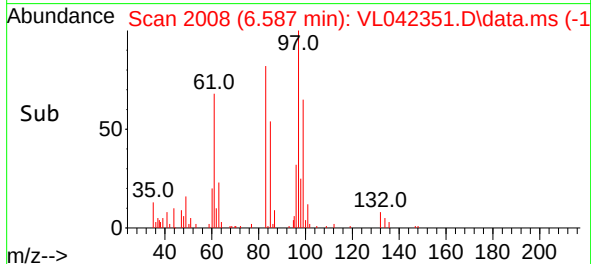
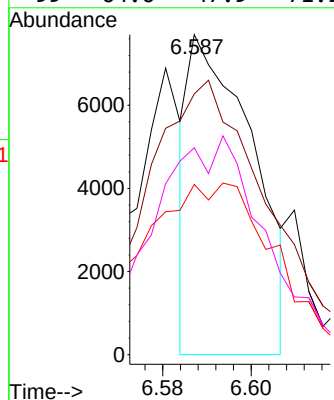
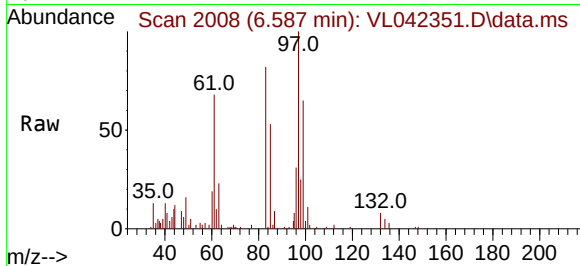


#47
1,1,2-Trichloroethane
Concen: 0.521 ppbv
RT: 6.587 min Scan# 2006
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 97 Resp: 7690

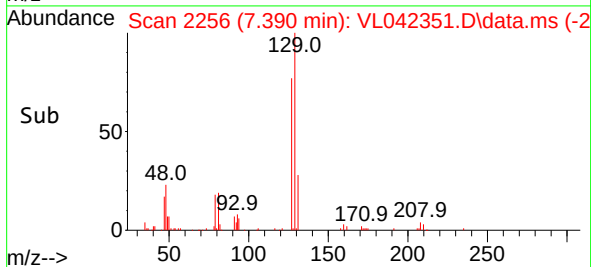
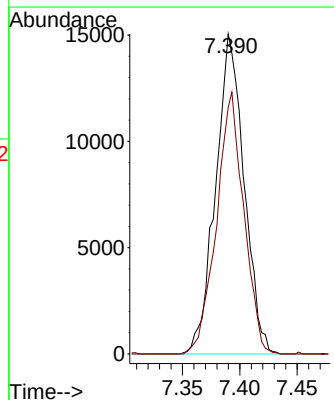
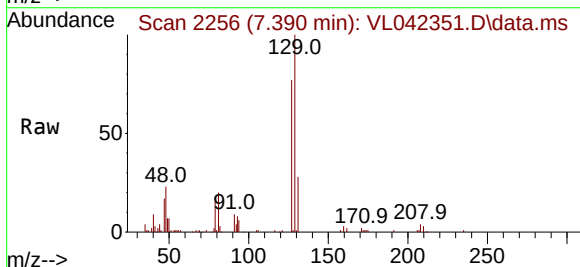
Ion	Ratio	Lower	Upper
97	100		
83	67.7	72.8	109.2#
85	31.3	44.2	66.4#
99	64.6	47.9	71.9

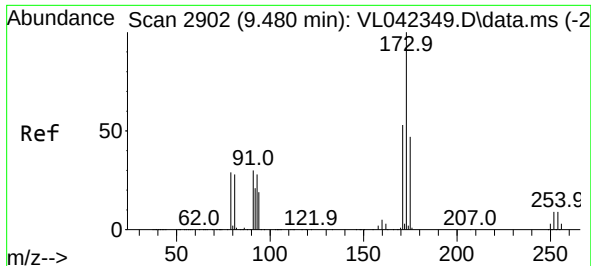


#48
Dibromochloromethane
Concen: 0.997 ppbv
RT: 7.390 min Scan# 2256
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 129 Resp: 25948

Ion	Ratio	Lower	Upper
129	100		
127	78.4	39.1	117.3

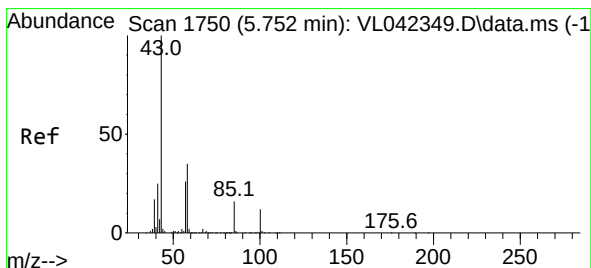
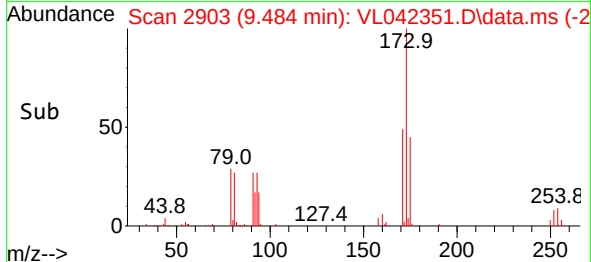
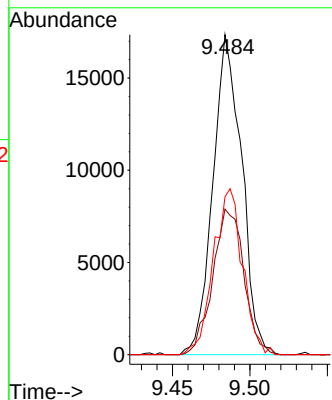
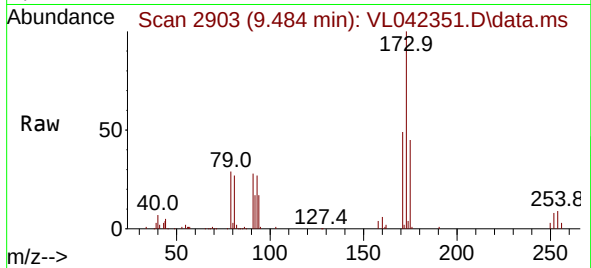




#49
Bromoform
Concen: 0.984 ppbv
RT: 9.484 min Scan# 2902
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

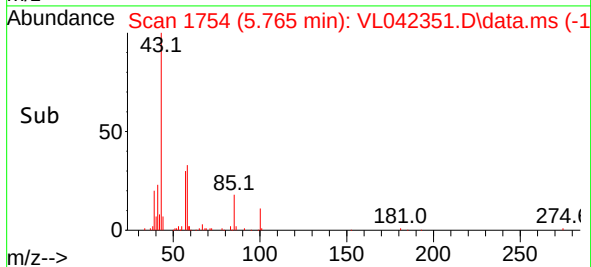
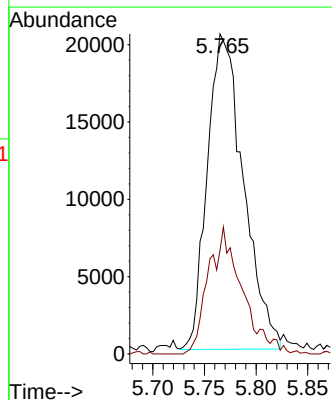
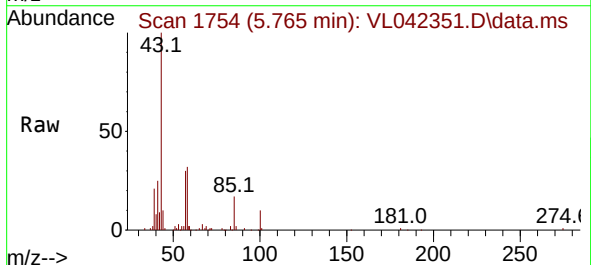
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

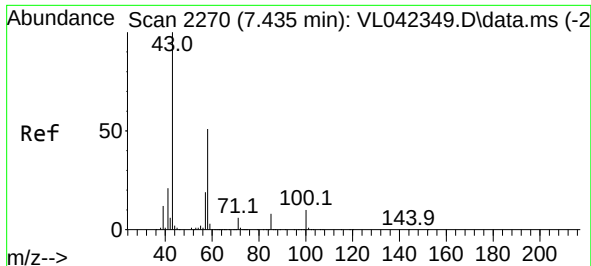
Tgt Ion:173 Resp: 22413
Ion Ratio Lower Upper
173 100
175 49.3 38.2 57.2
171 52.7 40.9 61.3



#50
4-Methyl-2-Pentanone
Concen: 1.049 ppbv
RT: 5.765 min Scan# 1754
Delta R.T. 0.013 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 43 Resp: 49725
Ion Ratio Lower Upper
43 100
58 37.7 28.6 43.0

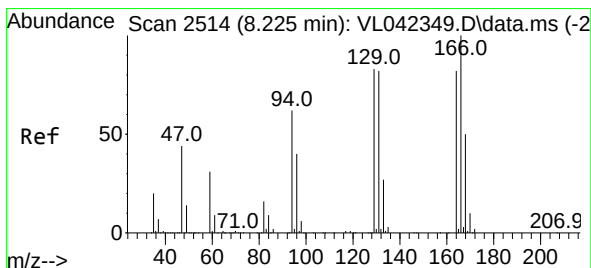
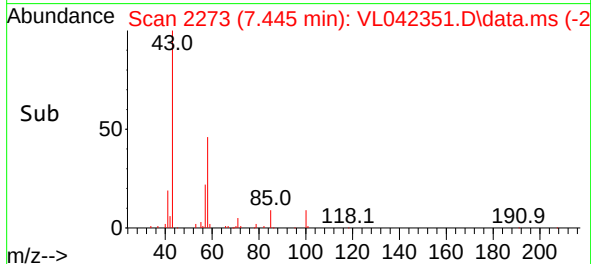
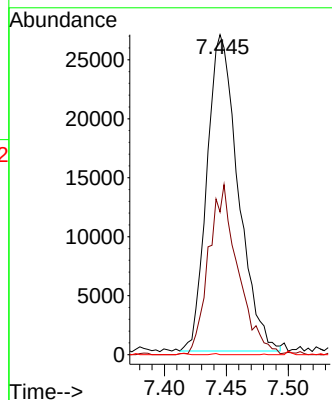
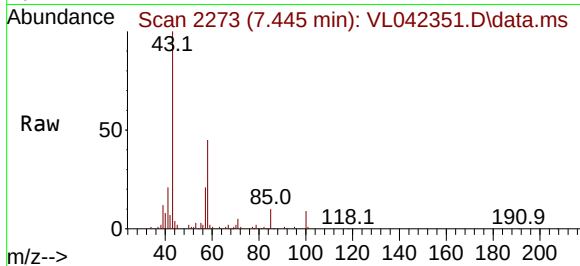




#51
2-Hexanone
Concen: 1.103 ppbv
RT: 7.445 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

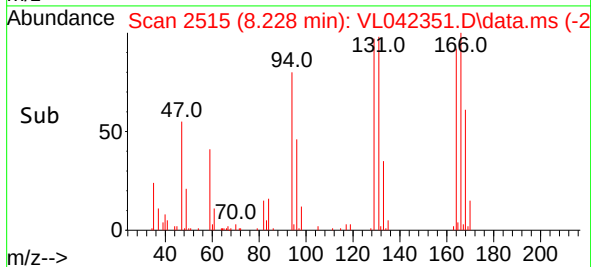
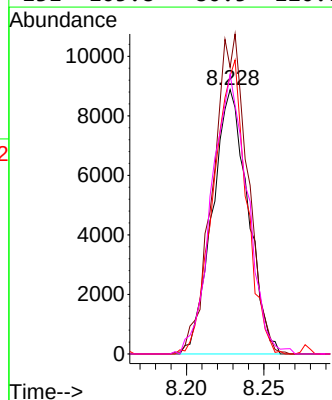
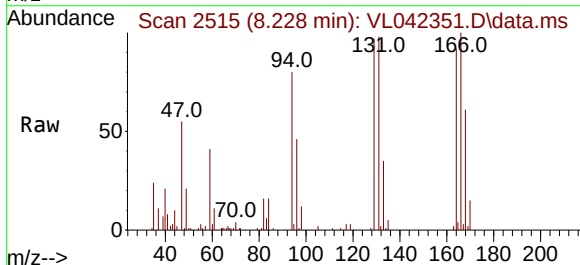
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

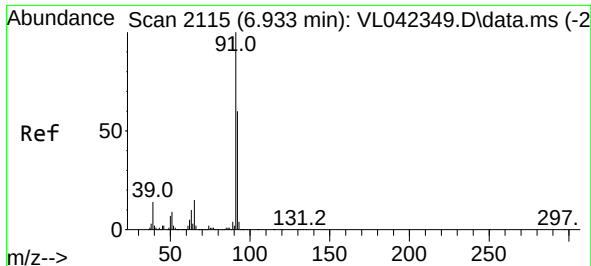
Tgt Ion: 43 Resp: 47178
Ion Ratio Lower Upper
43 100
58 50.8 40.2 60.4
98 0.1 0.1 0.1



#52
Tetrachloroethene
Concen: 0.943 ppbv
RT: 8.228 min Scan# 2515
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 164 Resp: 14154
Ion Ratio Lower Upper
164 100
166 107.7 98.2 147.2
129 104.2 81.8 122.8
131 105.8 80.5 120.7





#53

Toluene

Concen: 1.001 ppbv

RT: 6.940 min Scan# 2115

Delta R.T. 0.007 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Instrument :

MSVOA_L

ClientSampleId :

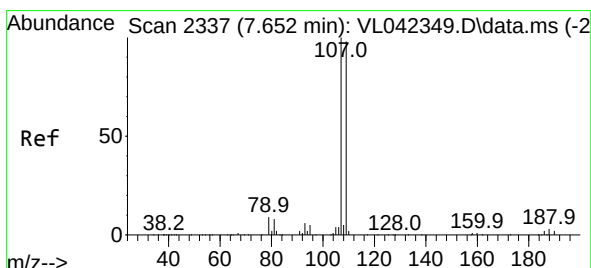
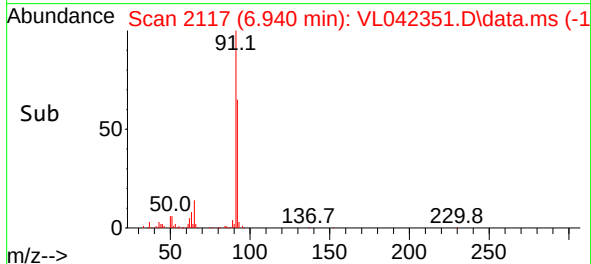
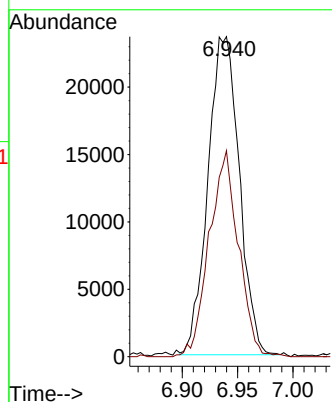
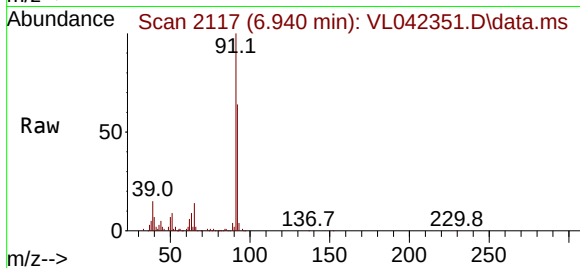
VSTDIC001

Tgt Ion: 91 Resp: 46611

Ion Ratio Lower Upper

91 100

92 60.4 48.2 72.4



#54

1,2-Dibromoethane

Concen: 1.036 ppbv

RT: 7.658 min Scan# 2339

Delta R.T. 0.007 min

Lab File: VL042351.D

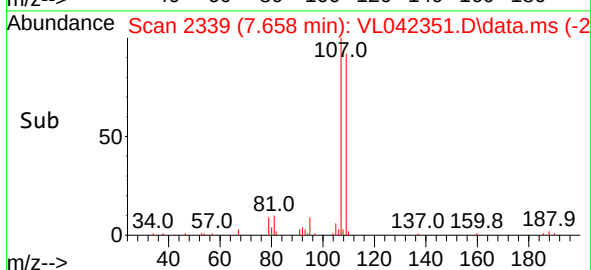
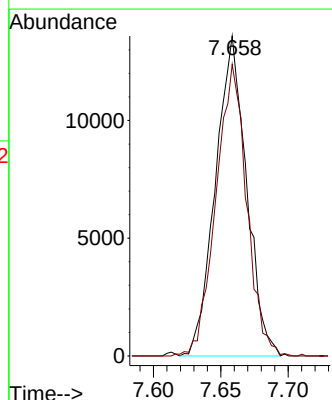
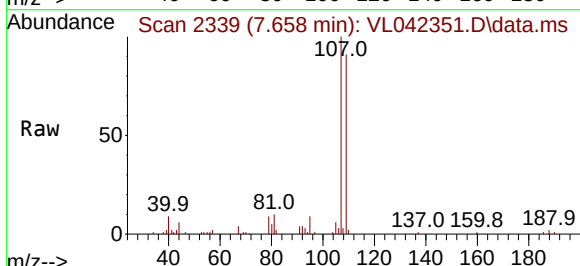
Acq: 17 Apr 2025 10:48

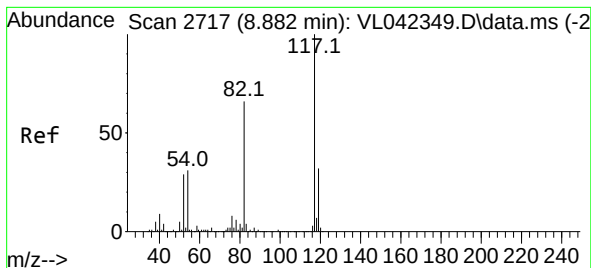
Tgt Ion: 107 Resp: 21780

Ion Ratio Lower Upper

107 100

109 90.7 78.2 117.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.885 min Scan# 2717

Delta R.T. 0.004 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

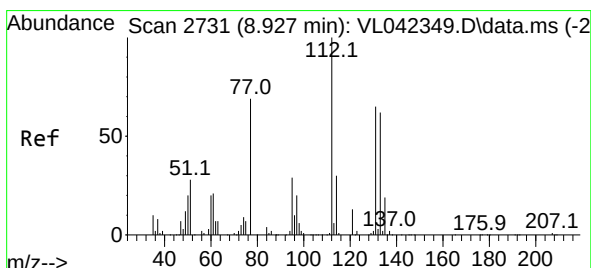
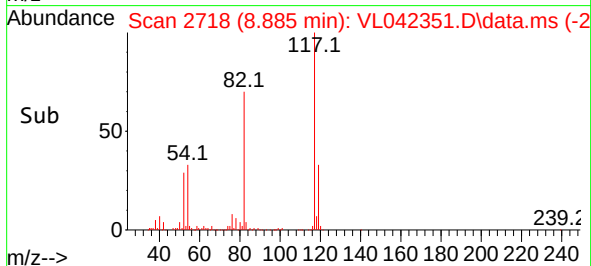
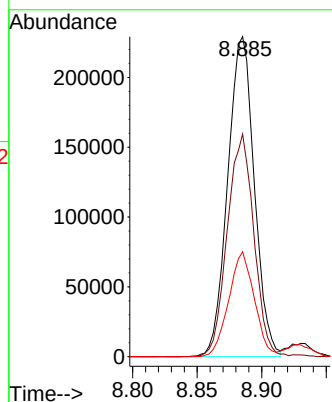
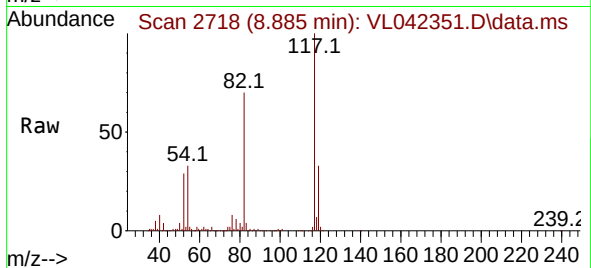
Tgt Ion:117 Resp: 329090

Ion Ratio Lower Upper

117 100

82 69.7 57.8 86.6

119 31.8 25.2 37.8



#56

1,1,1,2-Tetrachloroethane

Concen: 1.057 ppbv

RT: 8.927 min Scan# 2731

Delta R.T. 0.000 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

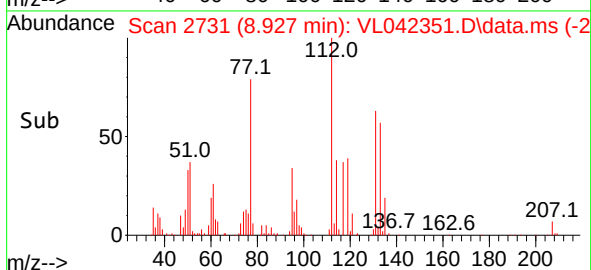
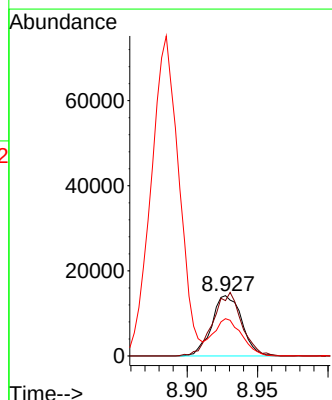
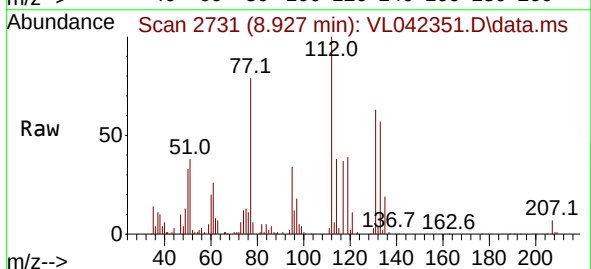
Tgt Ion:131 Resp: 21052

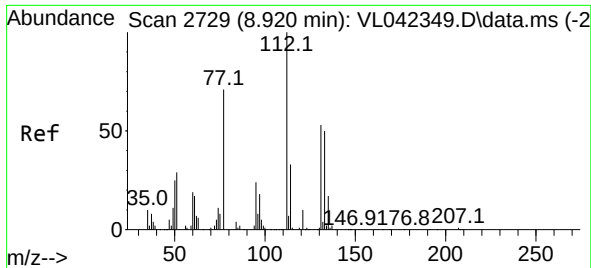
Ion Ratio Lower Upper

131 100

133 100.5 78.3 117.5

119 55.1 48.7 73.1

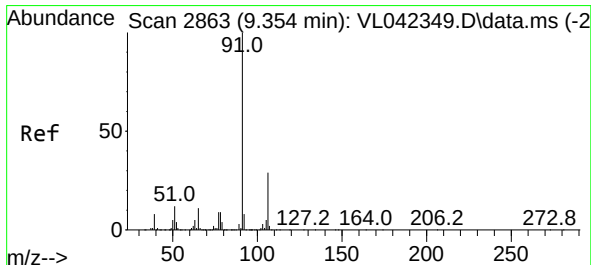
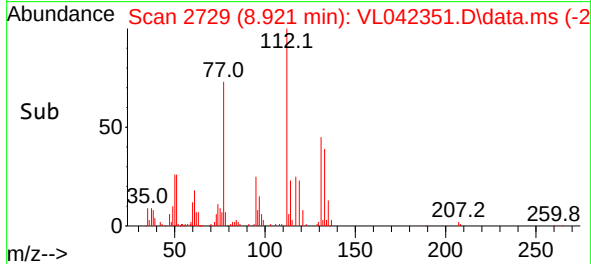
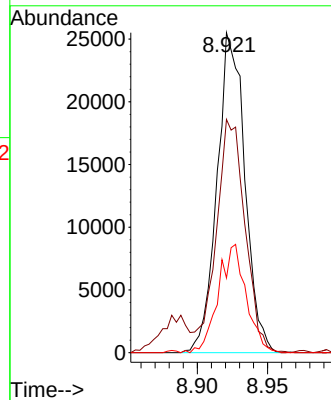
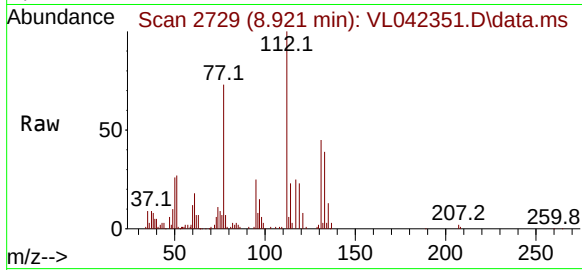




#57
Chlorobenzene
Concen: 1.026 ppbv
RT: 8.921 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

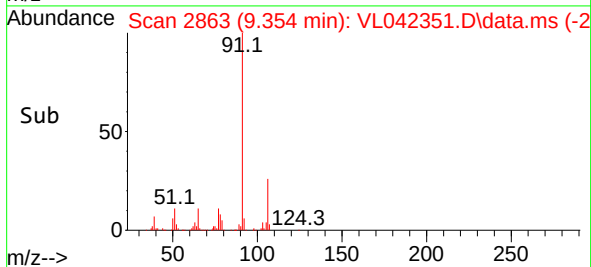
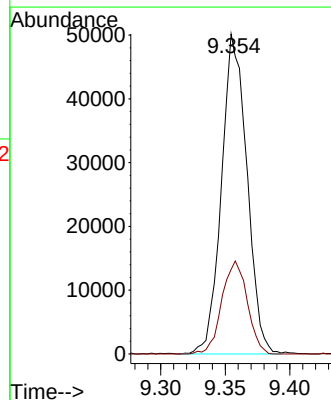
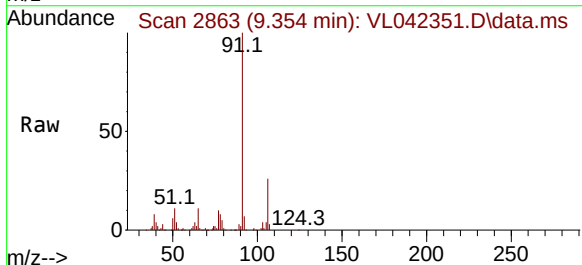
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

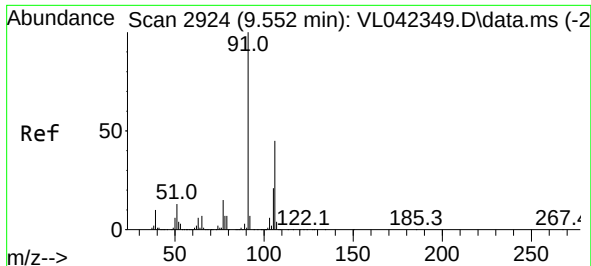
Tgt Ion:112 Resp: 35113
Ion Ratio Lower Upper
112 100
77 72.4 57.8 86.6
114 23.3 29.3 35.9#



#58
Ethyl Benzene
Concen: 1.054 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 91 Resp: 68703
Ion Ratio Lower Upper
91 100
106 26.5 23.0 34.4





#59

m/p-Xylene

Concen: 0.926 ppbv

RT: 9.552 min Scan# 2924

Delta R.T. 0.000 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Instrument :

MSVOA_L

ClientSampleId :

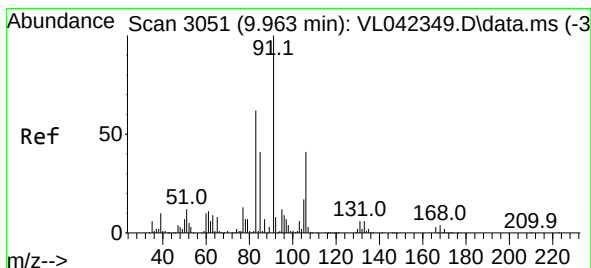
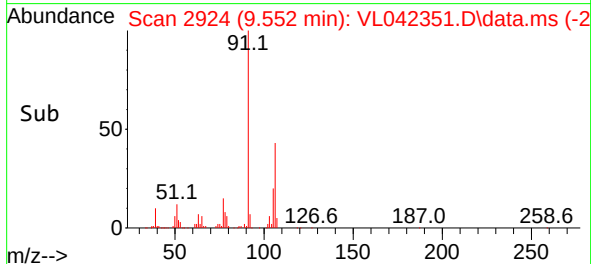
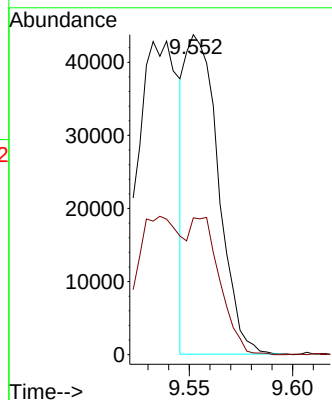
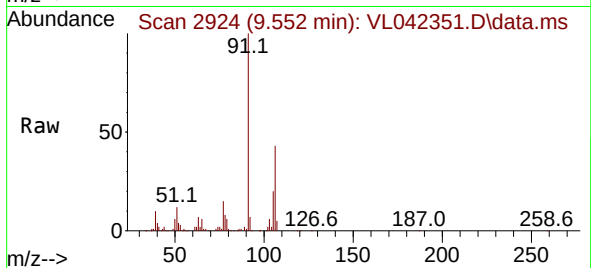
VSTDIC001

Tgt Ion: 91 Resp: 48794

Ion Ratio Lower Upper

91 100

106 0.0 35.4 53.2#



#60

o-Xylene

Concen: 1.056 ppbv

RT: 9.966 min Scan# 3052

Delta R.T. 0.004 min

Lab File: VL042351.D

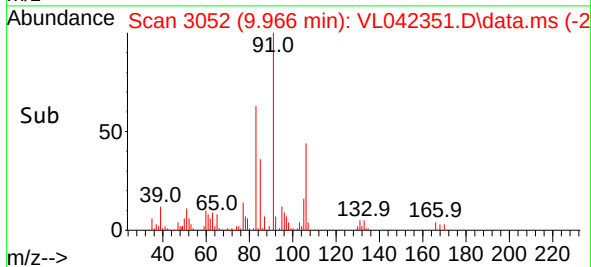
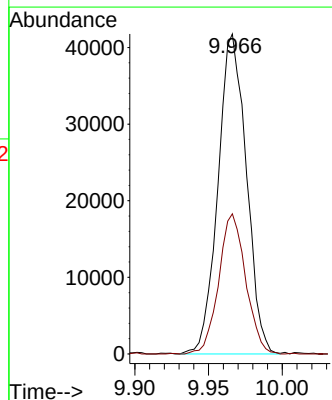
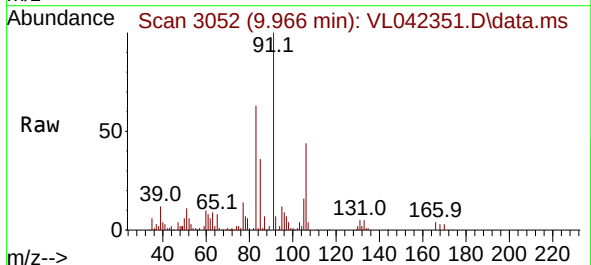
Acq: 17 Apr 2025 10:48

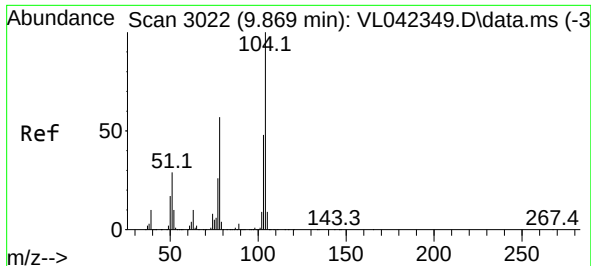
Tgt Ion: 91 Resp: 55831

Ion Ratio Lower Upper

91 100

106 41.6 21.1 63.4

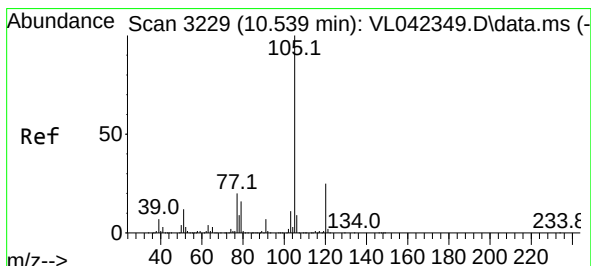
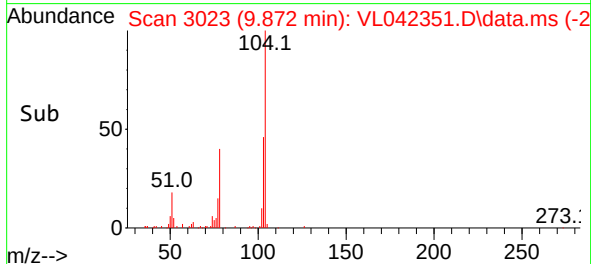
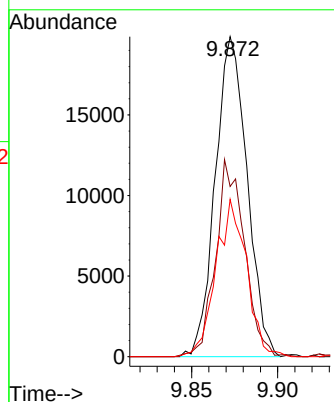
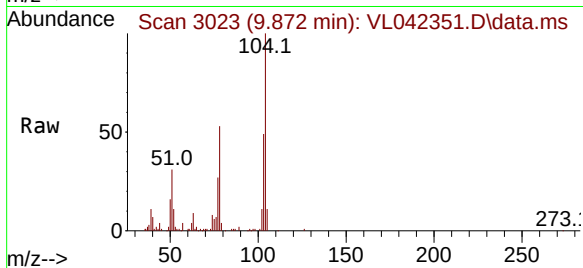




#61
Styrene
Concen: 1.012 ppbv
RT: 9.872 min Scan# 3022
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

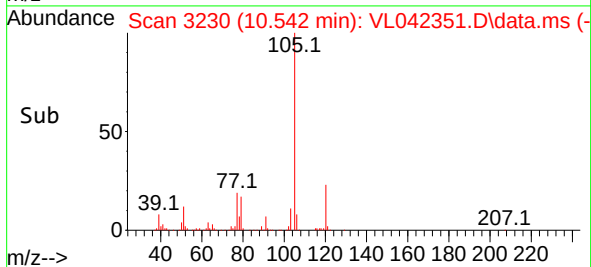
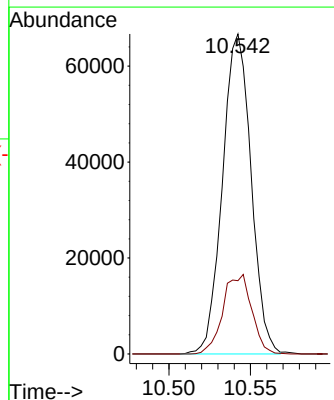
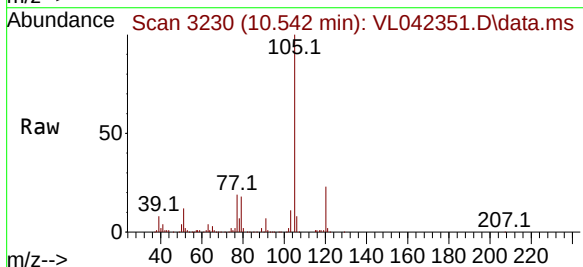
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

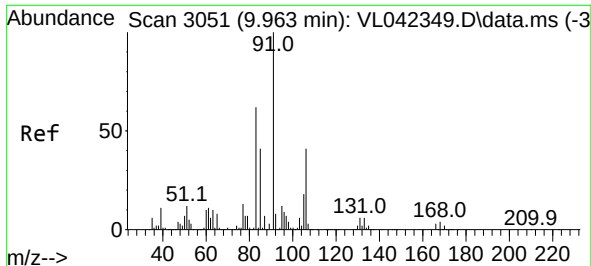
Tgt Ion:104 Resp: 25544
Ion Ratio Lower Upper
104 100
78 55.7 44.6 66.8
103 47.2 37.4 56.0



#62
Isopropylbenzene
Concen: 1.047 ppbv
RT: 10.542 min Scan# 3230
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:105 Resp: 81286
Ion Ratio Lower Upper
105 100
120 25.0 19.8 29.8





#63

1,1,2,2-Tetrachloroethane

Concen: 0.943 ppbv

RT: 9.966 min Scan# 3051

Delta R.T. 0.004 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

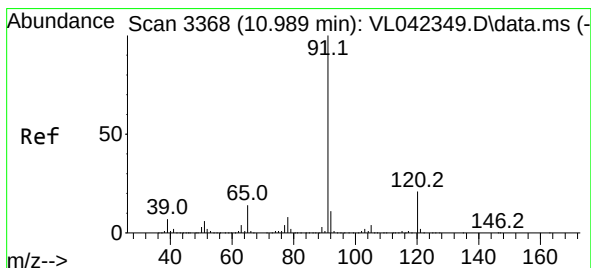
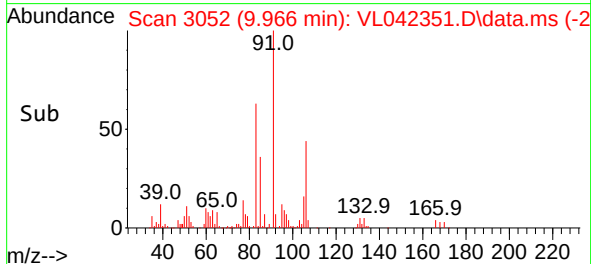
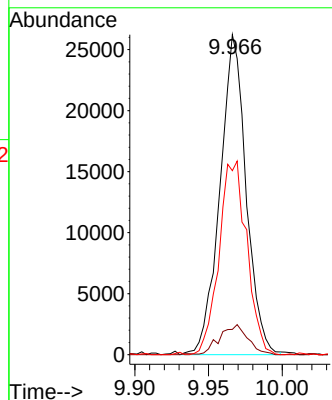
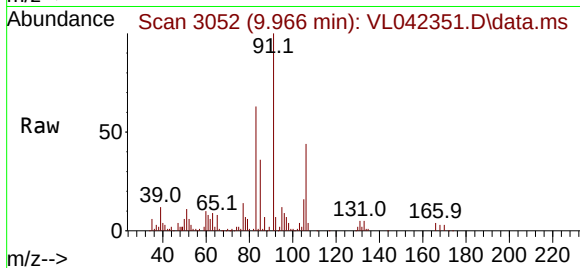
Tgt Ion: 83 Resp: 32410

Ion Ratio Lower Upper

83 100

131 10.2 4.5 13.7

85 64.4 32.4 97.0



#64

n-propylbenzene

Concen: 1.019 ppbv

RT: 10.989 min Scan# 3368

Delta R.T. 0.000 min

Lab File: VL042351.D

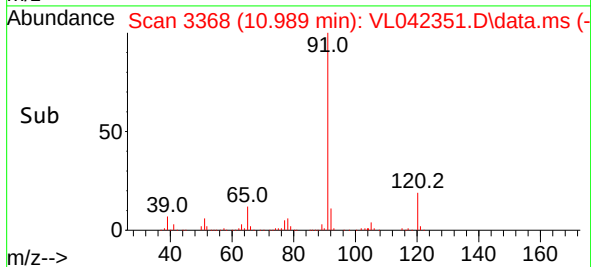
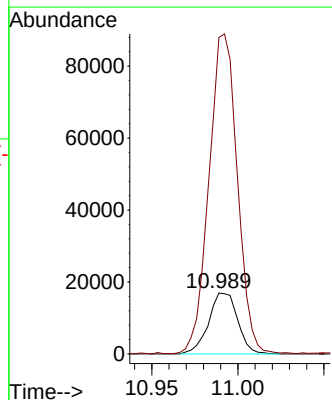
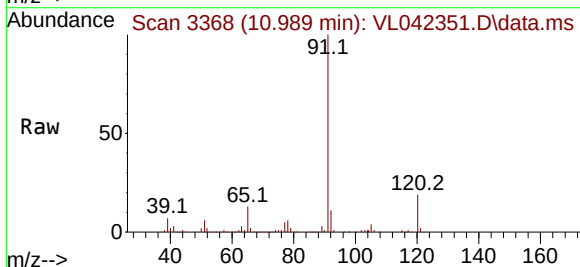
Acq: 17 Apr 2025 10:48

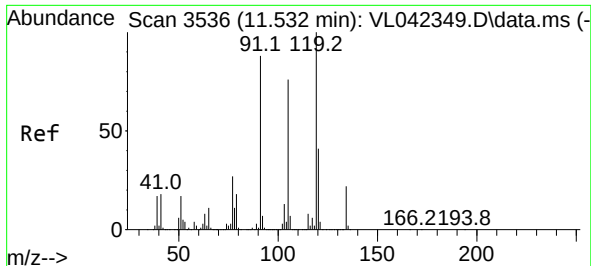
Tgt Ion:120 Resp: 19898

Ion Ratio Lower Upper

120 100

91 517.6 392.4 588.6

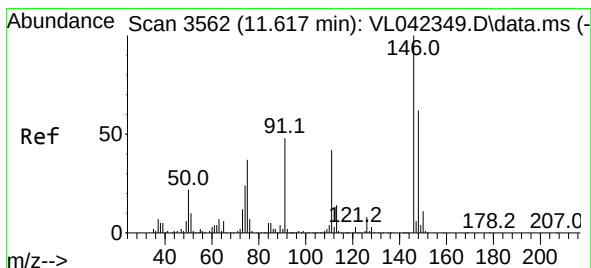
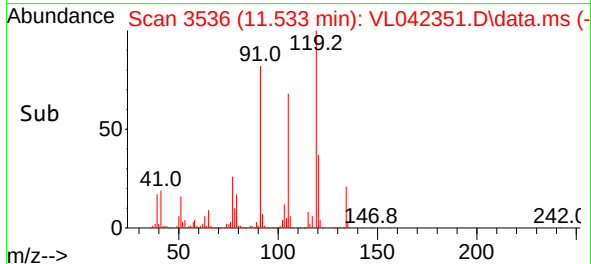
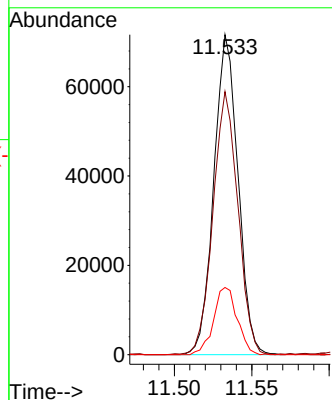
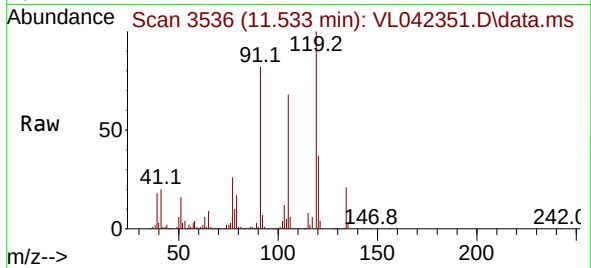




#65
tert-Butylbenzene
Concen: 1.087 ppbv
RT: 11.533 min Scan# 3536
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

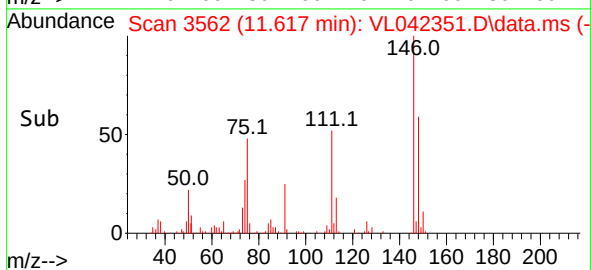
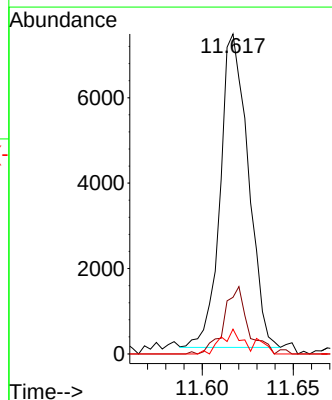
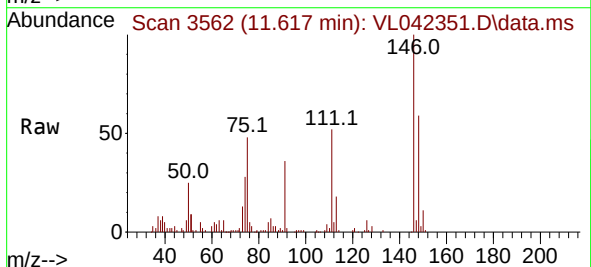
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

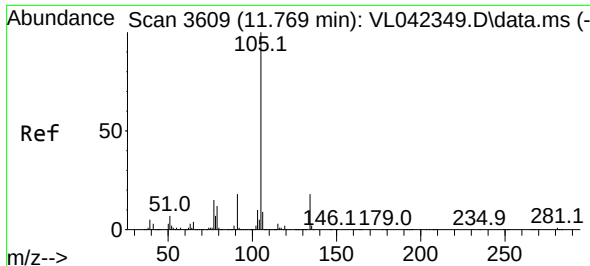
Tgt Ion:119 Resp: 77598
Ion Ratio Lower Upper
119 100
91 85.0 74.6 111.8
134 20.5 18.8 28.2



#66
Benzyl Chloride
Concen: 1.003 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion: 91 Resp: 7864
Ion Ratio Lower Upper
91 100
126 18.6 11.8 17.6#
128 7.7 4.5 6.7#

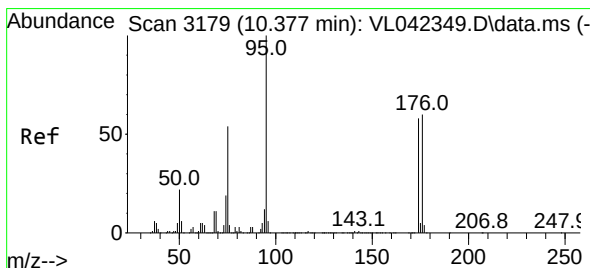
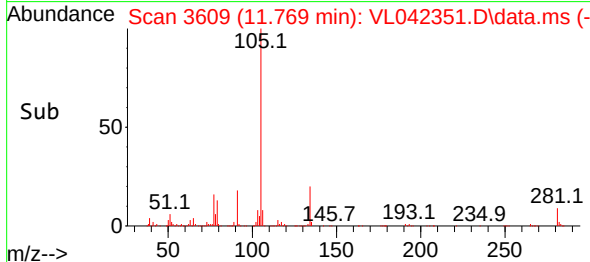
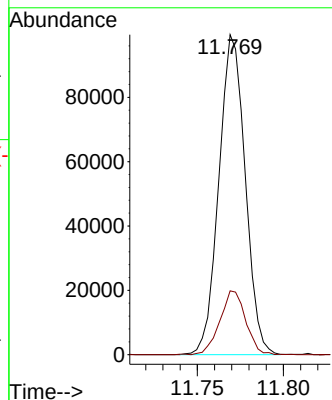
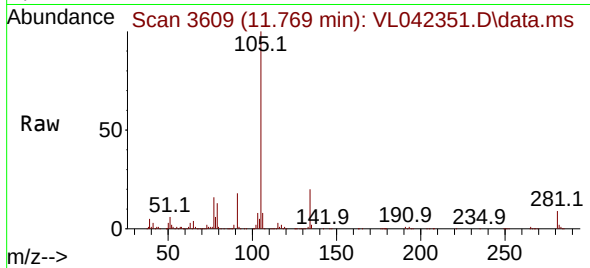




#67
 sec-Butylbenzene
 Concen: 1.067 ppbv
 RT: 11.769 min Scan# 3609
 Delta R.T. 0.000 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48

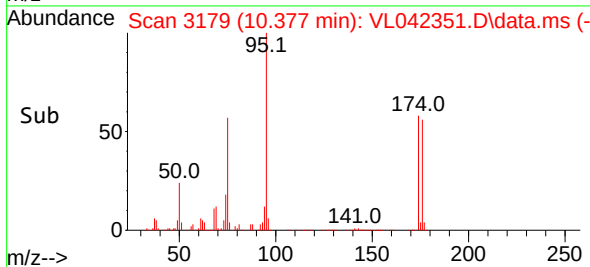
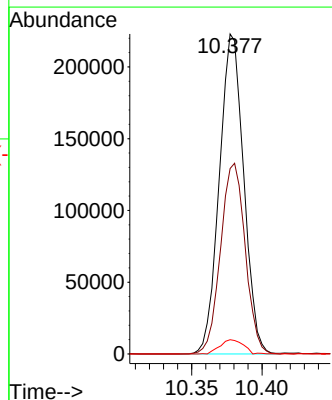
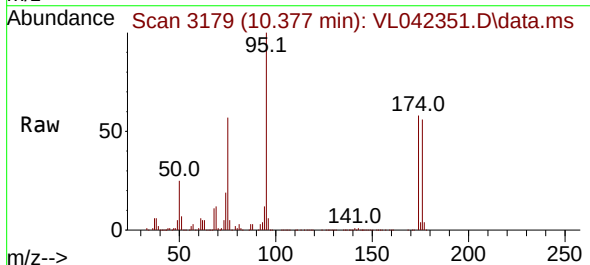
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

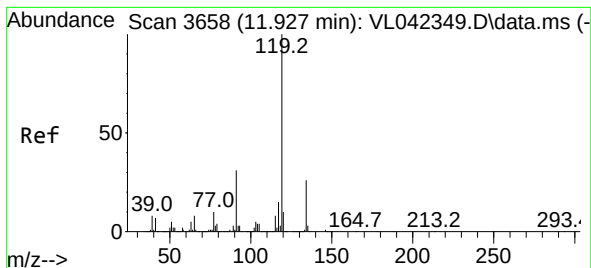
Tgt Ion:105 Resp: 105919
 Ion Ratio Lower Upper
 105 100
 134 19.6 14.6 21.8



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.950 ppbv
 RT: 10.377 min Scan# 3179
 Delta R.T. 0.000 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48

Tgt Ion: 95 Resp: 269087
 Ion Ratio Lower Upper
 95 100
 174 60.4 48.5 72.7
 175 4.3 3.7 5.5





#69

p-Isopropyltoluene

Concen: 1.075 ppbv

RT: 11.928 min Scan# 3658

Delta R.T. 0.000 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC001

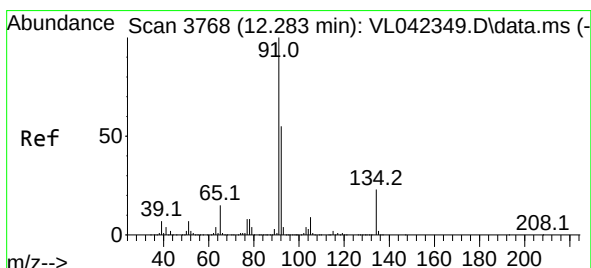
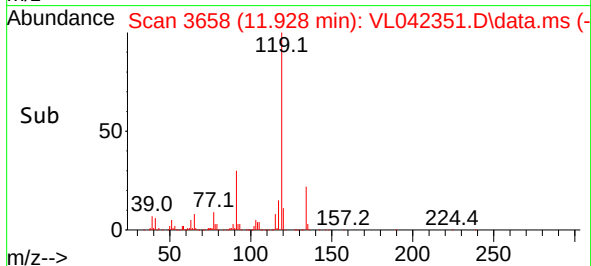
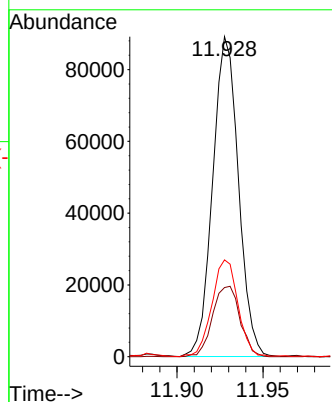
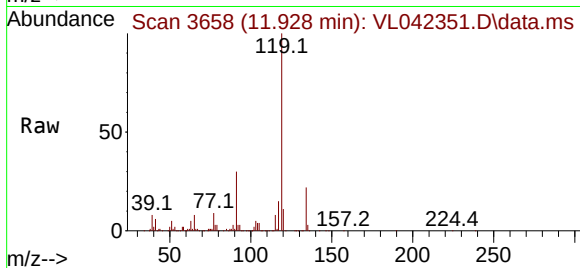
Tgt Ion:119 Resp: 92733

Ion Ratio Lower Upper

119 100

134 23.5 20.0 30.0

91 32.1 24.4 36.6



#70

n-Butylbenzene

Concen: 1.072 ppbv

RT: 12.284 min Scan# 3768

Delta R.T. 0.000 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

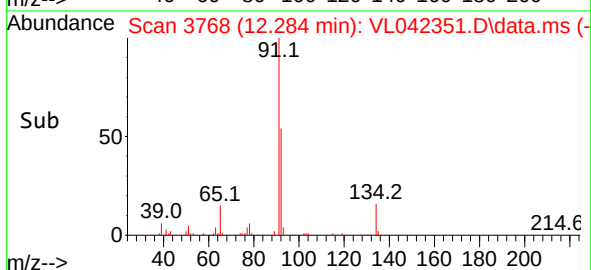
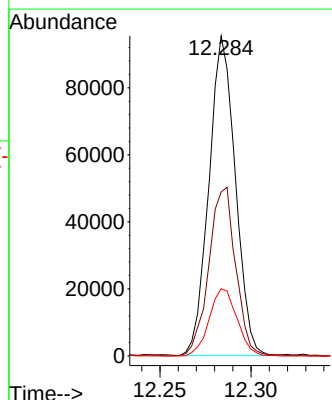
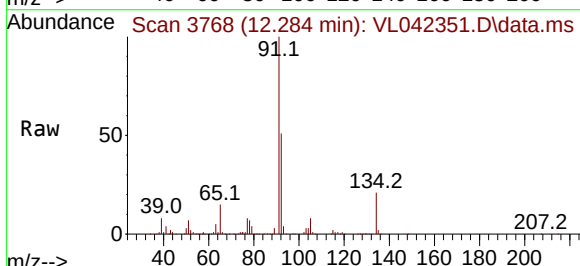
Tgt Ion: 91 Resp: 96306

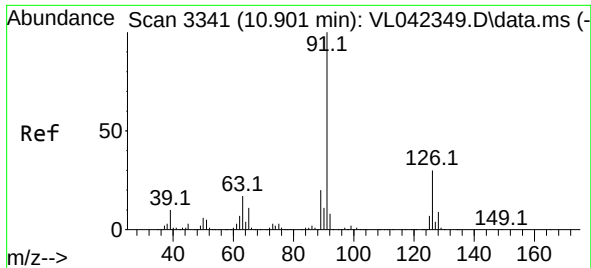
Ion Ratio Lower Upper

91 100

92 54.2 44.2 66.4

134 22.1 18.2 27.4

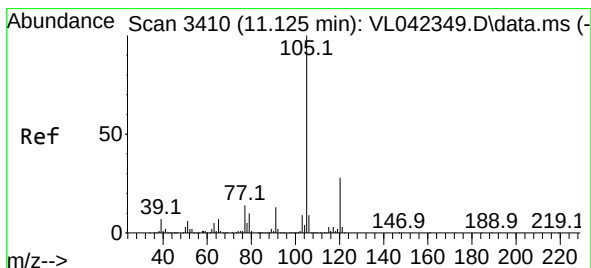
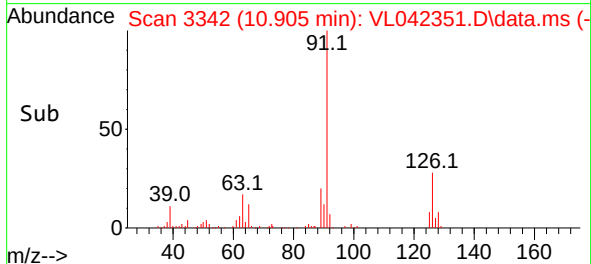
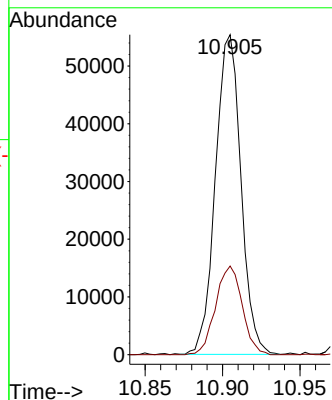
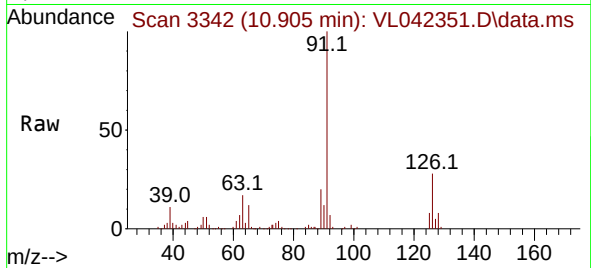




#71
2-Chlorotoluene
Concen: 1.040 ppbv
RT: 10.905 min Scan# 31
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

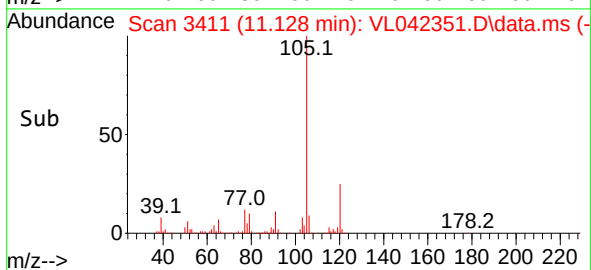
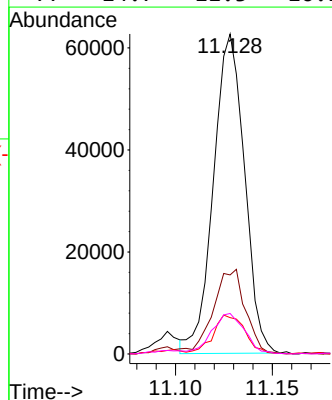
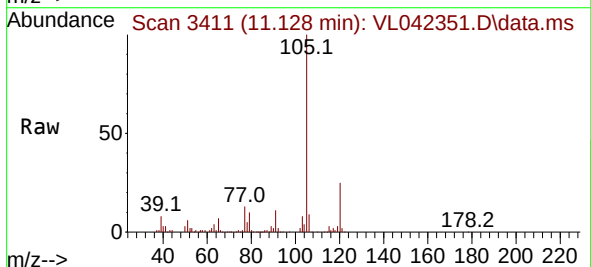
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

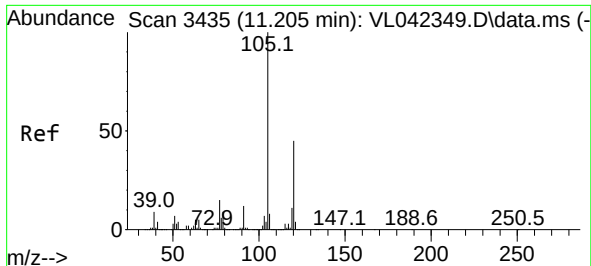
Tgt Ion: 91 Resp: 63321
Ion Ratio Lower Upper
91 100
126 28.9 11.4 45.4



#72
4-Ethyltoluene
Concen: 1.078 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:105 Resp: 69698
Ion Ratio Lower Upper
105 100
120 29.2 23.2 34.8
91 13.5 10.4 15.6
77 14.7 11.3 16.9

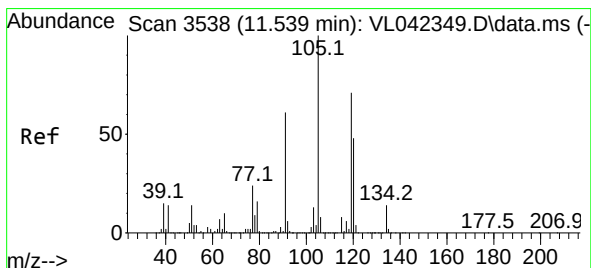
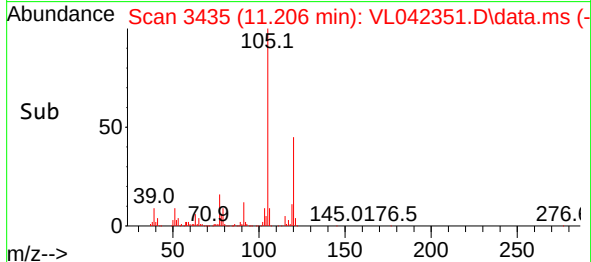
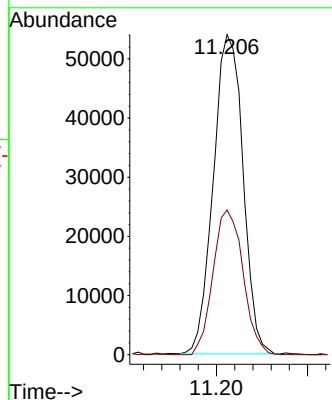
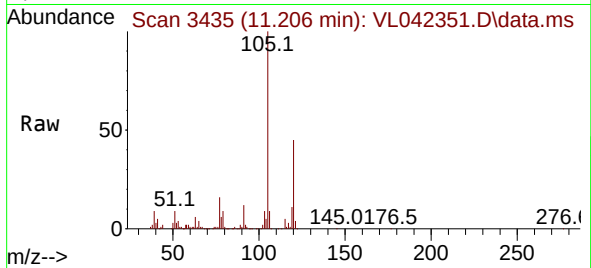




#73
1,3,5-Trimethylbenzene
Concen: 1.067 ppbv
RT: 11.206 min Scan# 3435
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

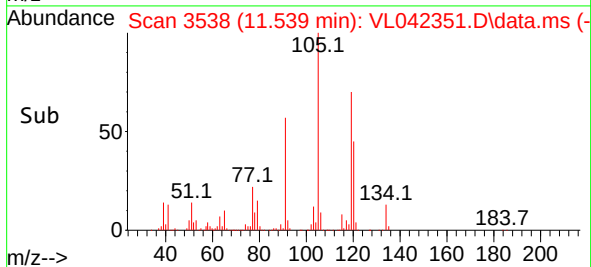
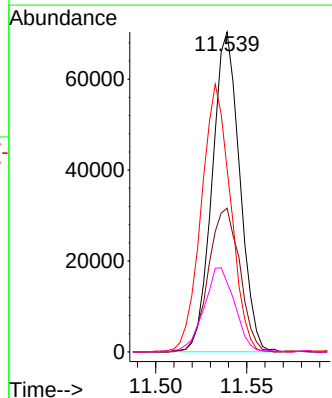
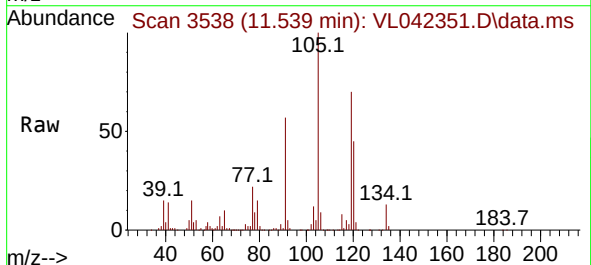
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

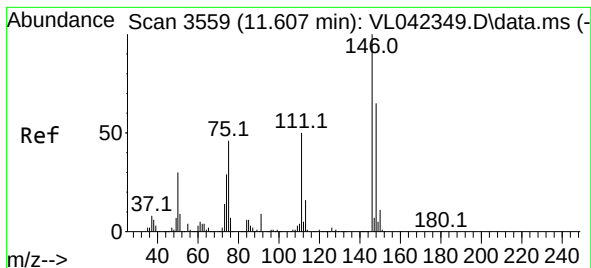
Tgt Ion:105 Resp: 60927
Ion Ratio Lower Upper
105 100
120 45.3 35.6 53.4



#74
1,2,4-Trimethylbenzene
Concen: 1.108 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:105 Resp: 73888
Ion Ratio Lower Upper
105 100
120 45.0 38.1 57.1
91 57.0 48.8 73.2
77 21.4 19.0 28.4





#75

1,3-Dichlorobenzene

Concen: 1.064 ppbv

RT: 11.610 min Scan# 3559

Delta R.T. 0.004 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC001

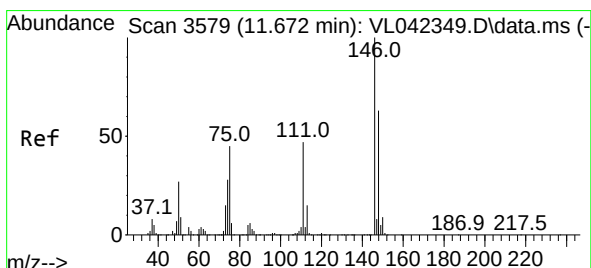
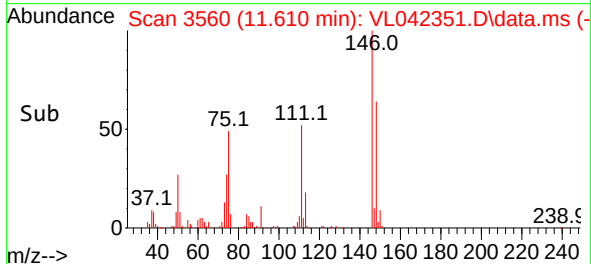
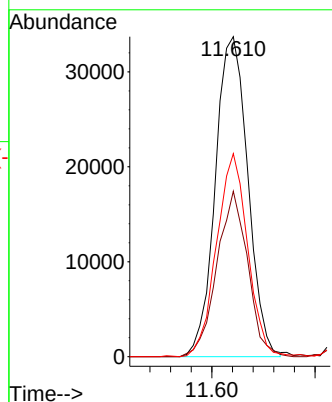
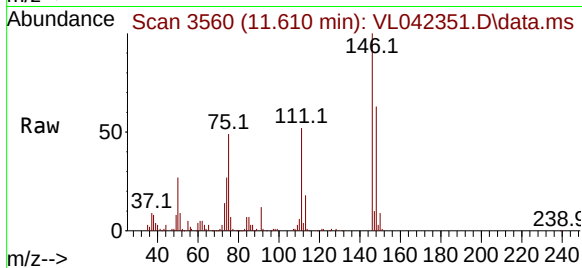
Tgt Ion:146 Resp: 36877

Ion Ratio Lower Upper

146 100

111 48.9 24.3 72.8

148 60.8 31.6 94.8



#76

1,4-Dichlorobenzene

Concen: 1.053 ppbv

RT: 11.675 min Scan# 3580

Delta R.T. 0.004 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

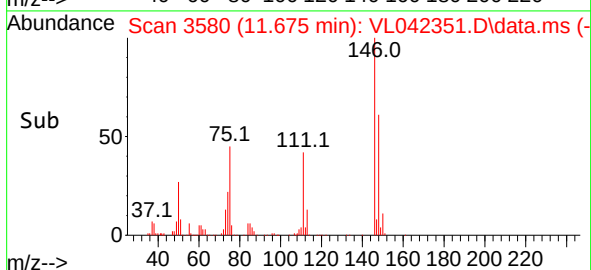
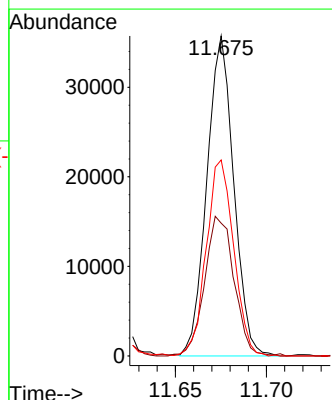
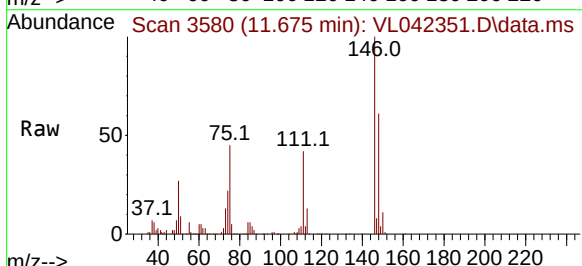
Tgt Ion:146 Resp: 36692

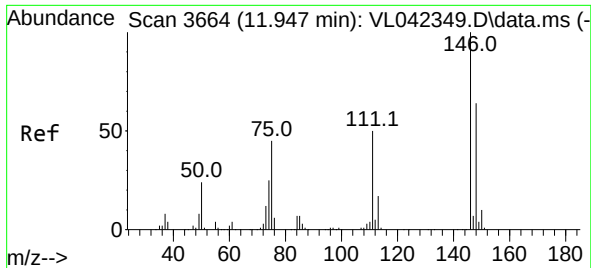
Ion Ratio Lower Upper

146 100

111 47.7 24.2 72.6

148 62.3 32.1 96.5

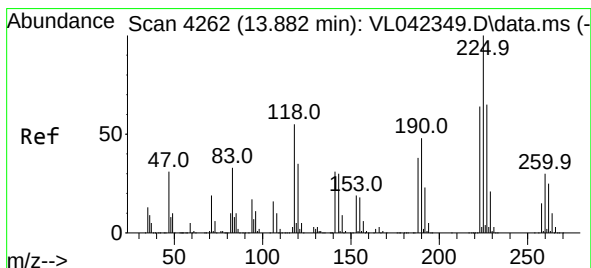
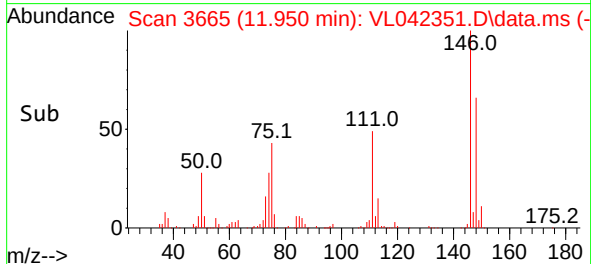
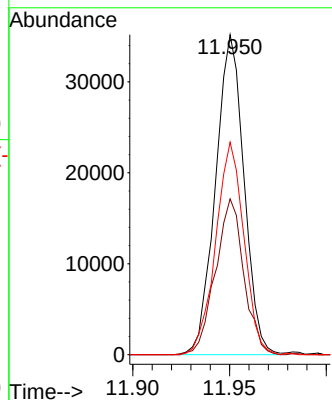
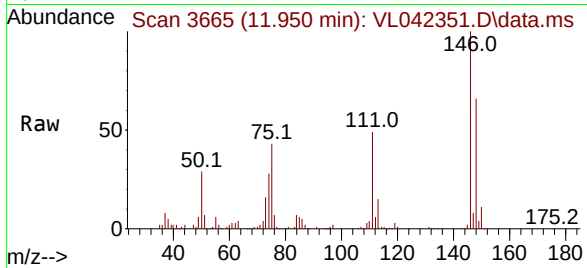




#77
1,2-Dichlorobenzene
Concen: 1.068 ppbv
RT: 11.950 min Scan# 30
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

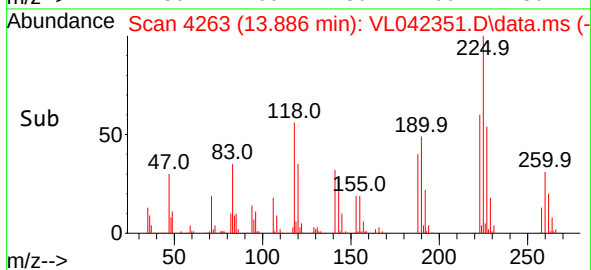
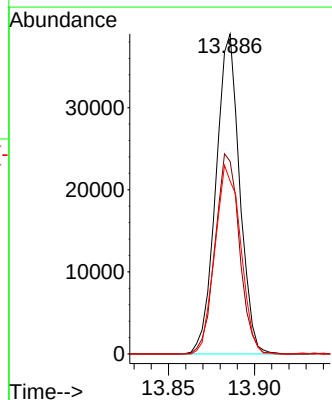
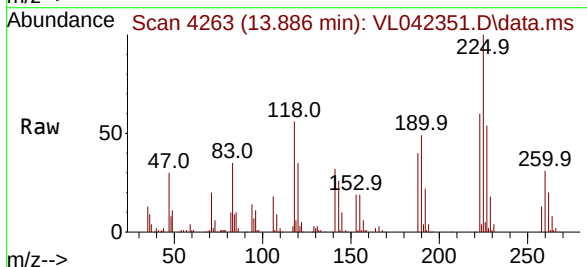
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

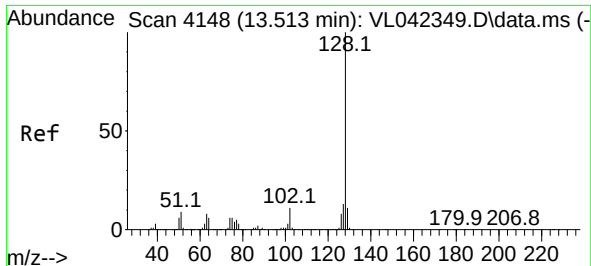
Tgt Ion:146 Resp: 35977
Ion Ratio Lower Upper
146 100
111 48.7 25.3 75.9
148 65.9 31.5 94.5



#78
Hexachloro-1,3-Butadiene
Concen: 1.098 ppbv
RT: 13.886 min Scan# 4263
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:225 Resp: 37377
Ion Ratio Lower Upper
225 100
223 64.1 50.3 75.5
227 63.6 51.5 77.3

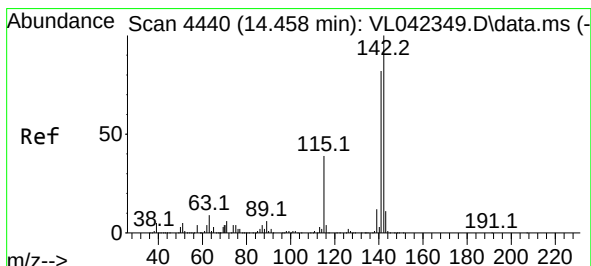
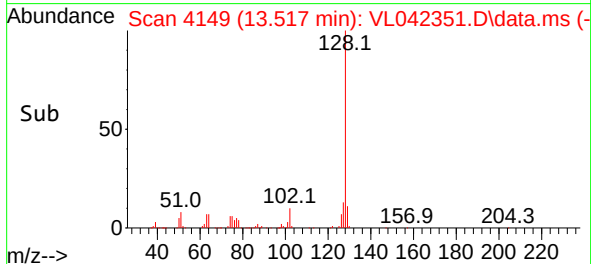
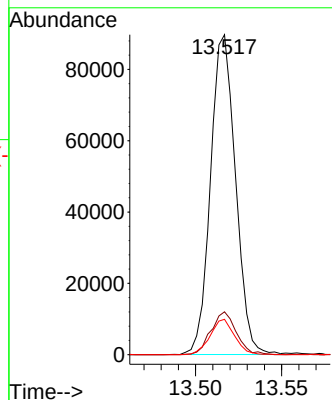
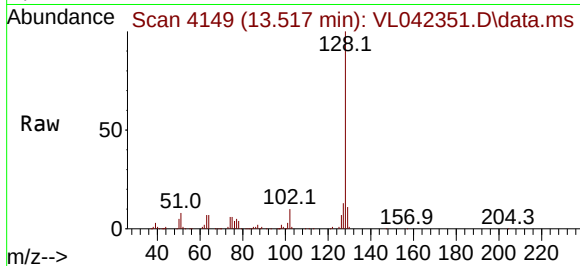




#79
Naphthalene
Concen: 1.138 ppbv
RT: 13.517 min Scan# 4148
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

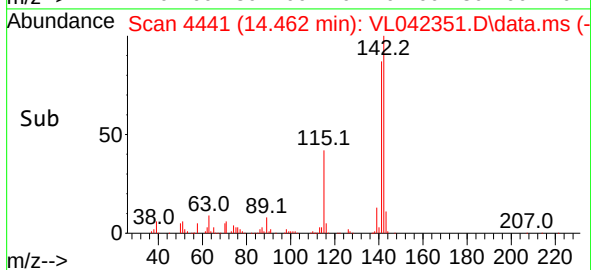
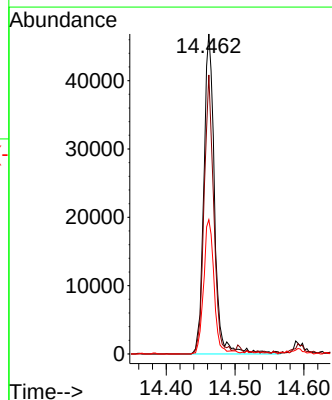
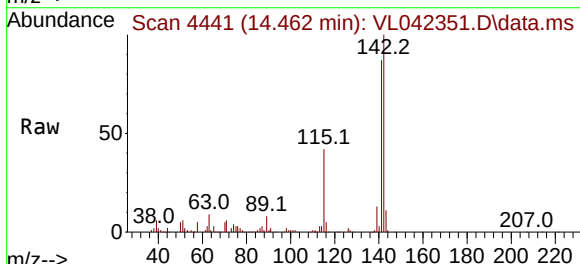
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

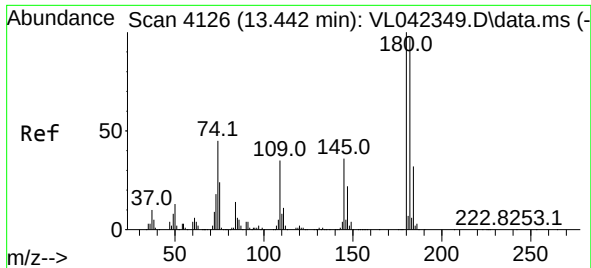
Tgt Ion:128 Resp: 90710
Ion Ratio Lower Upper
128 100
127 13.4 10.6 15.8
129 11.1 8.6 12.8



#80
Naphthalene,2-methyl-
Concen: 1.111 ppbv
RT: 14.462 min Scan# 4441
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Tgt Ion:142 Resp: 50487
Ion Ratio Lower Upper
142 100
141 80.9 66.8 100.2
115 41.2 33.4 50.2

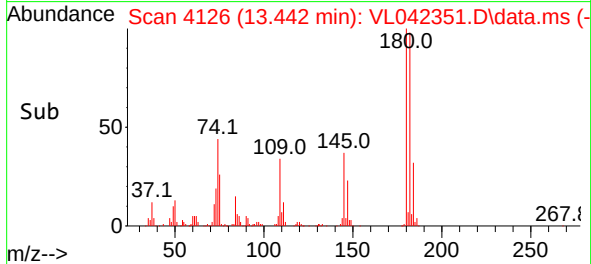
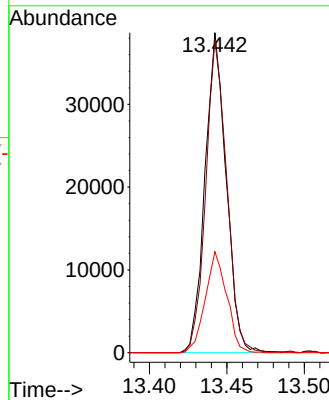
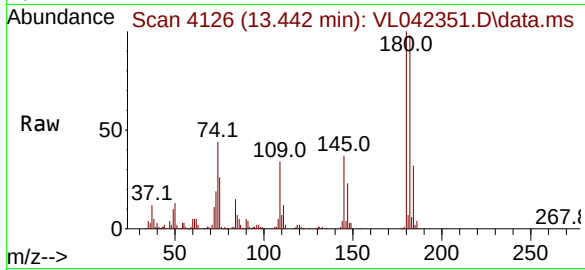




#81
 1,2,4-Trichlorobenzene
 Concen: 1.074 ppbv
 RT: 13.442 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.0	76.8	115.2
184	32.0	24.6	36.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042352.D
 Acq On : 17 Apr 2025 11:19
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Quant Time: Apr 18 01:28:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 01:24:29 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	120542	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	353137	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	321644	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	265161	10.032	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 100.300%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	11036	0.518	ppbv	92
3) Chlorodifluoromethane	1.476	51	11304	0.557	ppbv #	84
4) Chloromethane	1.531	50	4534	0.538	ppbv	97
5) Vinyl Chloride	1.580	62	4406	0.480	ppbv	97
6) Bromomethane	1.667	94	2394	0.602	ppbv	95
7) Chloroethane	1.703	64	1824	0.550	ppbv #	87
8) Dichlorotetrafluoroethane	1.554	85	9381	0.513	ppbv	99
9) Propene	1.483	41	5303	0.574	ppbv	93
10) Heptane	4.978	43	5438	0.219	ppbv #	1
11) Trichlorofluoromethane	1.877	101	10150	0.501	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.136	101	8371	0.506	ppbv	93
13) Ethanol	1.719	45	715	0.947	ppbv #	24
14) Bromoethene	1.780	108	3238	0.519	ppbv #	93
15) Acetone	1.835	43	11859	0.601	ppbv #	74
16) 1,3-Butadiene	1.609	39	6120	0.660	ppbv #	82
17) tert-Butyl alcohol	2.043	59	13640	0.558	ppbv #	85
18) 1,1-Dichloroethene	2.033	96	4430	0.556	ppbv #	87
19) Isopropyl Alcohol	1.884	45	6327	0.577	ppbv #	39
20) Methylene Chloride	2.059	84	5273	0.682	ppbv	93
21) Allyl Chloride	2.094	41	7692	0.565	ppbv #	81
22) trans-1,2-Dichloroethene	2.340	96	4908	0.557	ppbv	92
23) Vinyl Acetate	2.460	43	3953	0.495	ppbv #	57
24) 1,1-Dichloroethane	2.408	63	8753	0.523	ppbv #	94
25) Ethyl Acetate	2.835	43	26686	0.548	ppbv #	93
26) Hexane	2.823	57	11448	0.581	ppbv	91
27) Carbon Disulfide	2.149	76	11472	0.544	ppbv #	1
28) Methyl tert-Butyl Ether	2.441	73	6833	0.530	ppbv #	32
29) Chloroform	2.848	83	14815	0.532	ppbv	93
30) Cyclohexane	3.852	84	8572	0.541	ppbv	94
31) cis-1,2-Dichloroethene	2.722	61	9571	0.511	ppbv	96
32) 1,1,1-Trichloroethane	3.370	97	15413	0.516	ppbv	97
34) 2-Butanone	2.560	43	15640	0.560	ppbv	97
35) Carbon Tetrachloride	3.761	117	14683	0.459	ppbv	87
36) Benzene	3.651	78	20233	0.531	ppbv	97
37) 1,2-Dichloroethane	3.217	62	12194	0.533	ppbv #	95
38) Trichloroethene	4.551	130	7819	0.468	ppbv #	78
39) 1,2-Dichloropropane	4.315	63	3195	0.225	ppbv	89
40) 1,4-Dioxane	4.599	88	2550	0.331	ppbv #	1
41) Tetrahydrofuran	3.062	42	8773	0.544	ppbv	95
42) Bromodichloromethane	4.489	83	16642	0.523	ppbv #	91
43) Methyl Methacrylate	4.871	69	1556	0.091	ppbv #	1
44) 2,2,4-Trimethylpentane	4.635	57	34170	0.519	ppbv	91
45) t-1,3-Dichloropropene	6.393	75	1332	0.076	ppbv	92

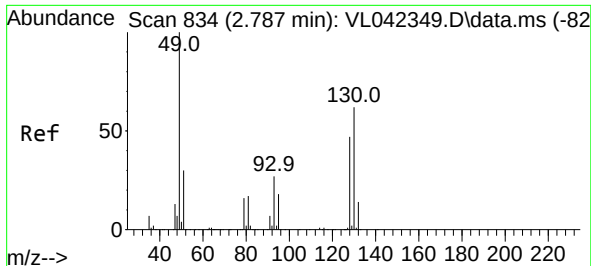
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 Data File : VL042352.D
 Acq On : 17 Apr 2025 11:19
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Quant Time: Apr 18 01:28:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 01:24:29 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.596	75	7634	0.356	ppbv #	91
47) 1,1,2-Trichloroethane	6.590	97	2374	0.164	ppbv	94
48) Dibromochloromethane	7.386	129	13122	0.514	ppbv	97
49) Bromoform	9.477	173	10988	0.492	ppbv	99
50) 4-Methyl-2-Pentanone	5.761	43	14380	0.309	ppbv #	39
51) 2-Hexanone	7.441	43	23684	0.564	ppbv	98
52) Tetrachloroethene	8.221	164	7412	0.503	ppbv #	88
53) Toluene	6.927	91	24200	0.529	ppbv	97
54) 1,2-Dibromoethane	7.645	107	10282	0.499	ppbv	84
56) 1,1,1,2-Tetrachloroethane	8.930	131	9987	0.513	ppbv #	1
57) Chlorobenzene	8.924	112	6884	0.206	ppbv	90
58) Ethyl Benzene	9.351	91	32624	0.512	ppbv	97
59) m/p-Xylene	9.548	91	22598	0.439	ppbv #	32
60) o-Xylene	9.963	91	27983	0.541	ppbv	99
61) Styrene	9.869	104	12736	0.516	ppbv	96
62) Isopropylbenzene	10.539	105	40481	0.533	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.959	83	15920	0.474	ppbv	99
64) n-propylbenzene	10.985	120	10369	0.544	ppbv	97
65) tert-Butylbenzene	11.529	119	37294	0.535	ppbv	93
66) Benzyl Chloride	11.613	91	3878	0.506	ppbv #	91
67) sec-Butylbenzene	11.765	105	52139	0.537	ppbv	97
69) p-Isopropyltoluene	11.924	119	45574	0.541	ppbv	98
70) n-Butylbenzene	12.280	91	48004	0.547	ppbv	99
71) 2-Chlorotoluene	10.898	91	31709	0.533	ppbv	100
72) 4-Ethyltoluene	11.125	105	33048	0.523	ppbv #	95
73) 1,3,5-Trimethylbenzene	11.202	105	30464	0.546	ppbv	99
74) 1,2,4-Trimethylbenzene	11.536	105	37765	0.579	ppbv #	90
75) 1,3-Dichlorobenzene	11.607	146	18003	0.531	ppbv	99
76) 1,4-Dichlorobenzene	11.668	146	18300	0.537	ppbv	96
77) 1,2-Dichlorobenzene	11.947	146	17446	0.530	ppbv	95
78) Hexachloro-1,3-Butadiene	13.879	225	18705	0.562	ppbv	98
79) Naphthalene	13.513	128	38521	0.494	ppbv #	92
80) Naphthalene,2-methyl-	14.458	142	21076	0.475	ppbv	96
81) 1,2,4-Trichlorobenzene	13.442	180	16504	0.493	ppbv	97

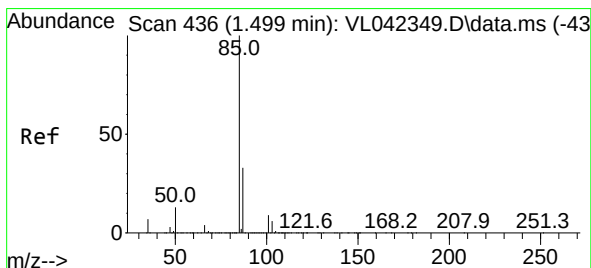
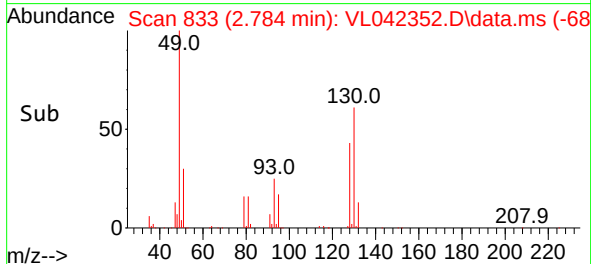
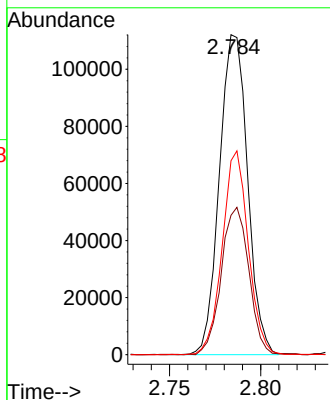
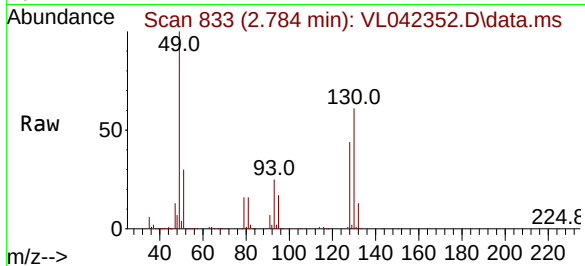
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

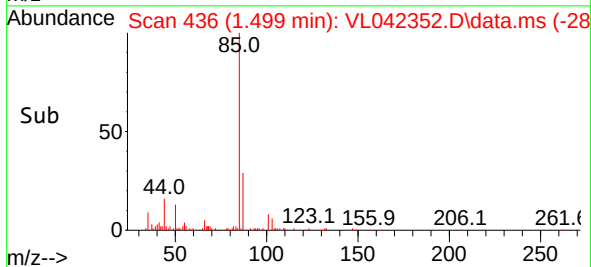
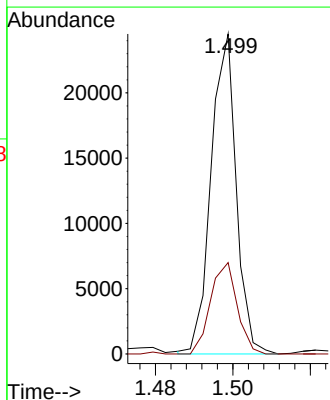
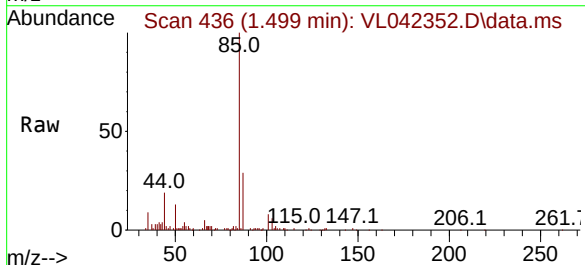
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ClientSampleId :
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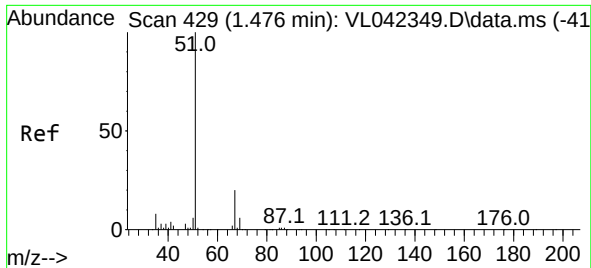
Tgt Ion: 49 Resp: 120542
Ion Ratio Lower Upper
49 100
128 45.3 22.8 68.4
130 59.0 29.3 88.0



#2
Dichlorodifluoromethane
Concen: 0.518 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 85 Resp: 11036
Ion Ratio Lower Upper
85 100
87 28.6 26.6 39.8

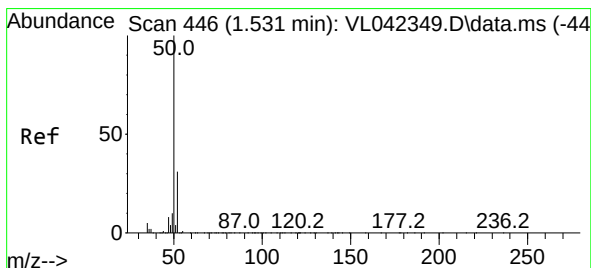
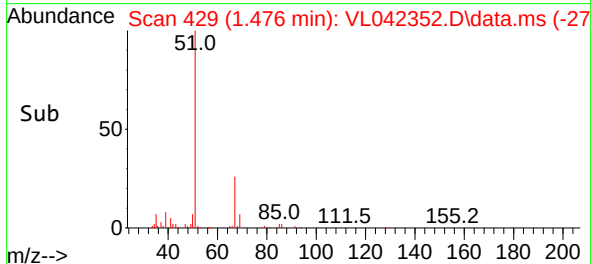
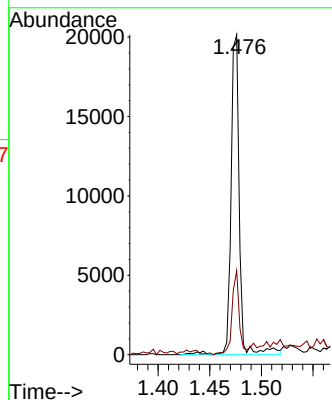
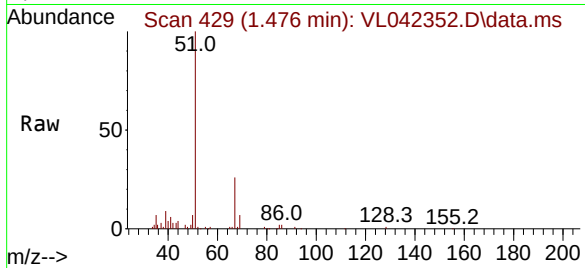




#3
Chlorodifluoromethane
Concen: 0.557 ppbv
RT: 1.476 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

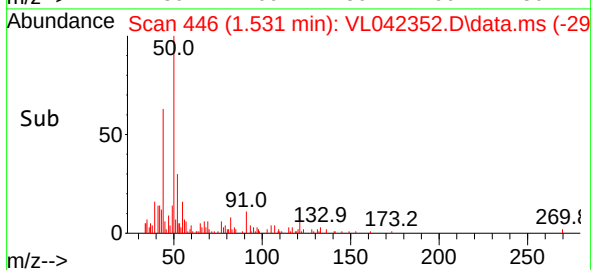
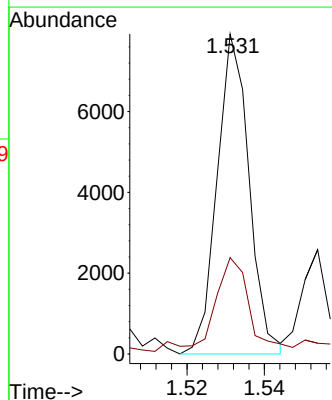
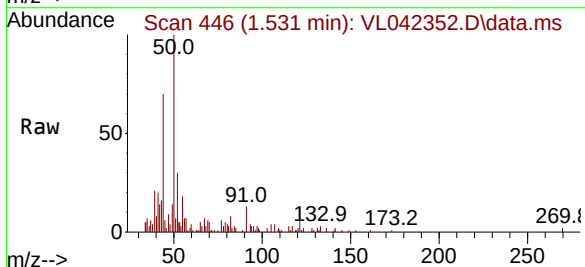
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ClientSampleId :
VSTDIC0.5

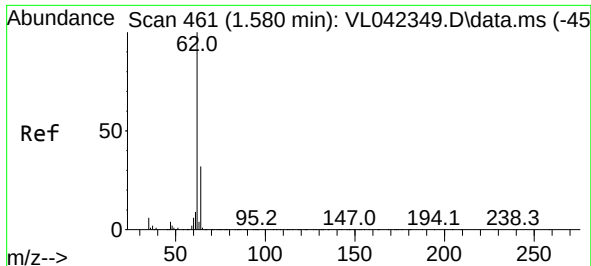
Tgt Ion: 51 Resp: 11304
Ion Ratio Lower Upper
51 100
67 27.8 16.2 24.4#



#4
Chloromethane
Concen: 0.538 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 50 Resp: 4534
Ion Ratio Lower Upper
50 100
52 32.8 24.7 37.1

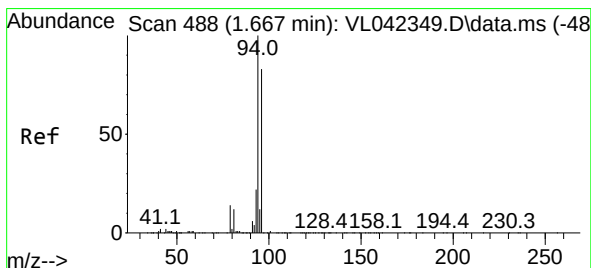
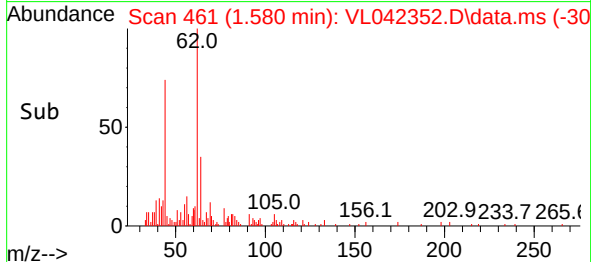
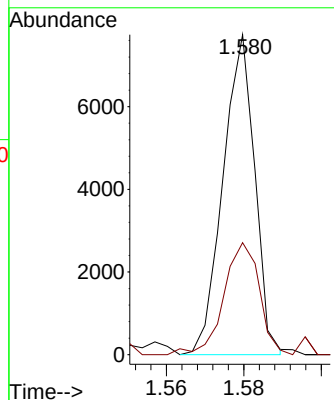
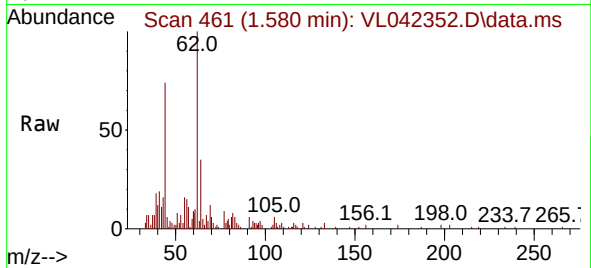




#5
 Vinyl Chloride
 Concen: 0.480 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. -0.000 min
 Lab File: VL042352.D
 Acq: 17 Apr 2025 11:19

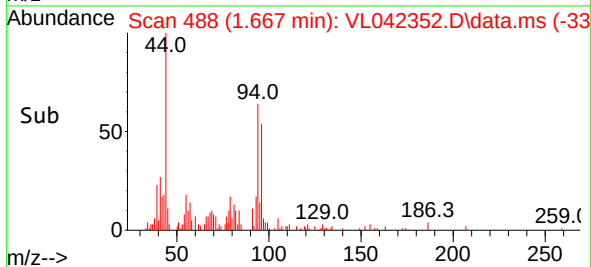
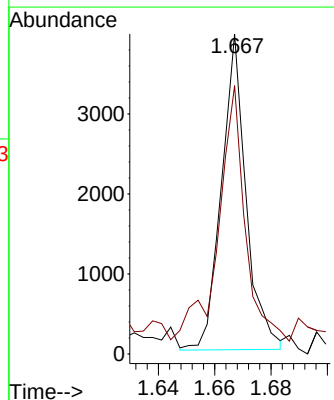
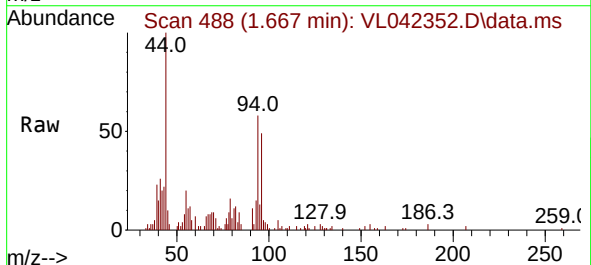
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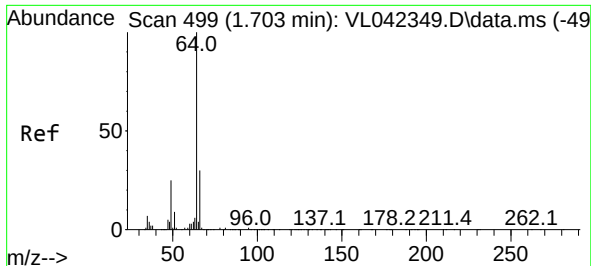
Tgt Ion: 62 Resp: 4406
 Ion Ratio Lower Upper
 62 100
 64 33.5 25.4 38.0



#6
 Bromomethane
 Concen: 0.602 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. -0.000 min
 Lab File: VL042352.D
 Acq: 17 Apr 2025 11:19

Tgt Ion: 94 Resp: 2394
 Ion Ratio Lower Upper
 94 100
 96 78.1 66.2 99.2

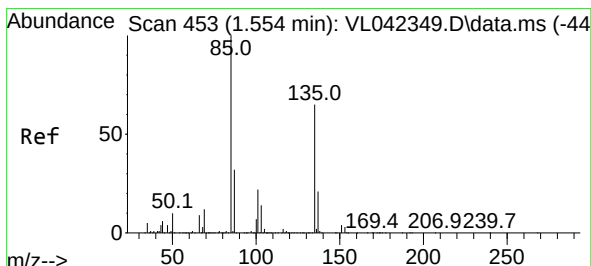
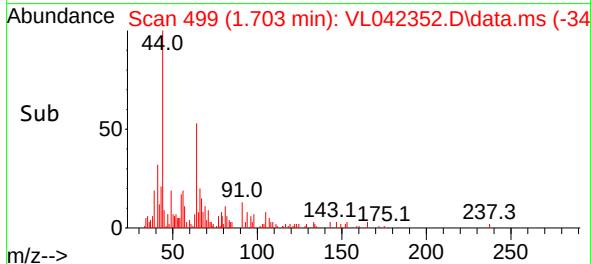
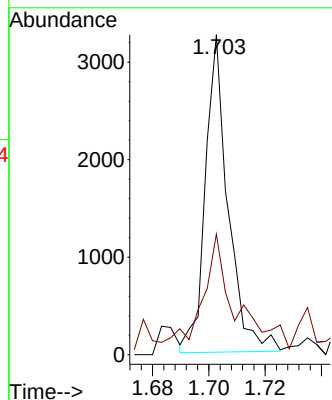
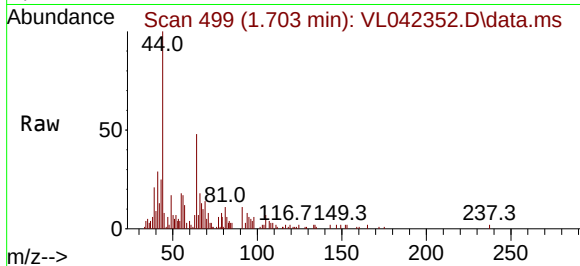




#7
Chloroethane
Concen: 0.550 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

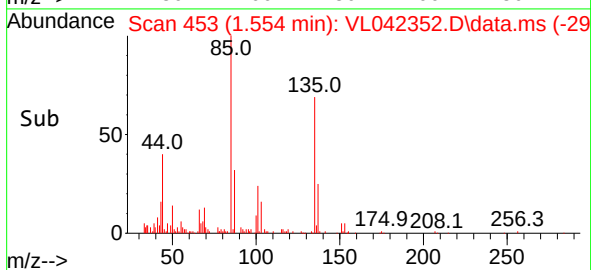
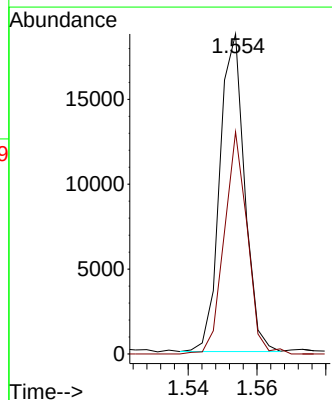
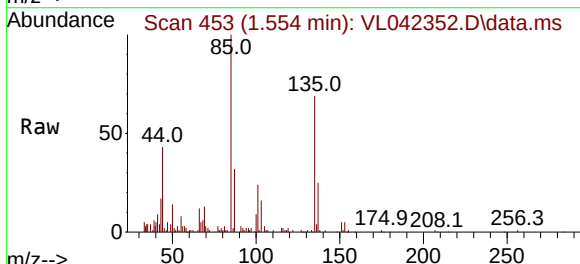
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

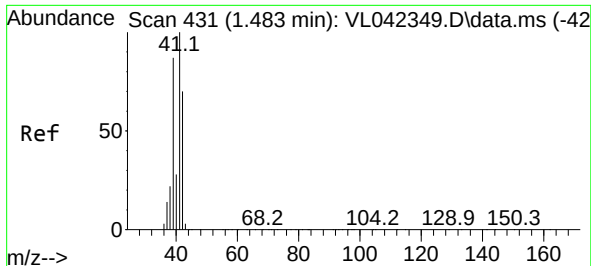
Tgt Ion: 64 Resp: 1824
Ion Ratio Lower Upper
64 100
66 37.7 24.6 37.0#



#8
Dichlorotetrafluoroethane
Concen: 0.513 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 85 Resp: 9381
Ion Ratio Lower Upper
85 100
135 66.2 52.2 78.2





#9

Propene

Concen: 0.574 ppbv

RT: 1.483 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA_1

ClientSampleId :

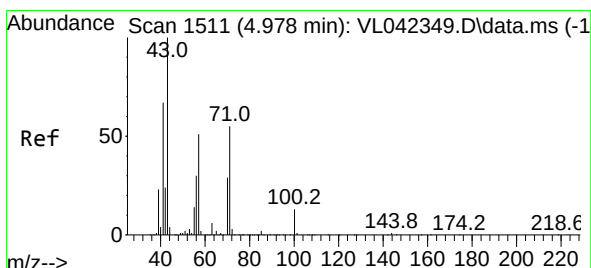
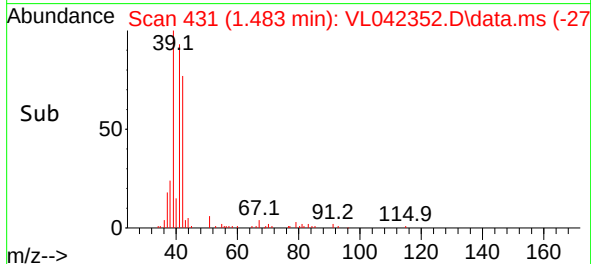
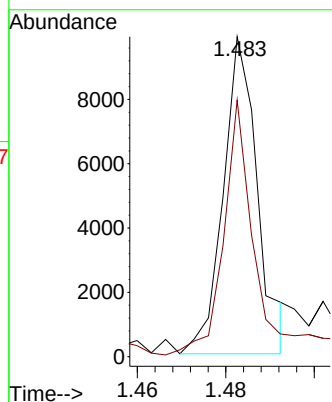
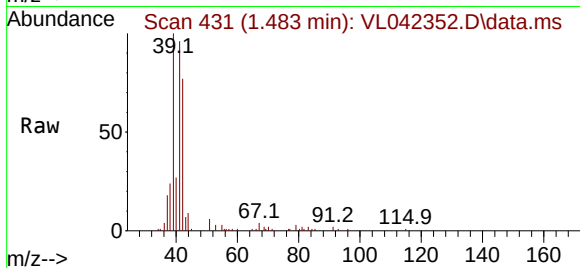
VSTDIC0.5

Tgt Ion: 41 Resp: 5303

Ion Ratio Lower Upper

41 100

42 64.8 56.2 84.4



#10

Heptane

Concen: 0.219 ppbv

RT: 4.978 min Scan# 1511

Delta R.T. -0.000 min

Lab File: VL042352.D

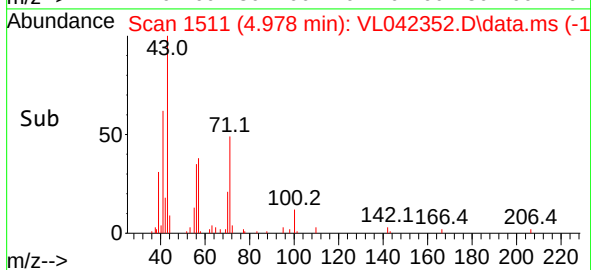
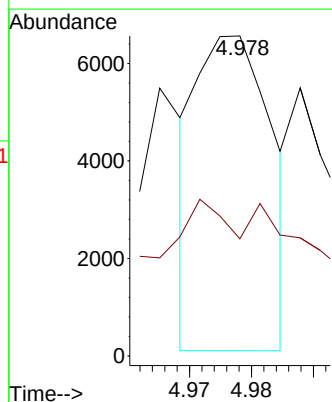
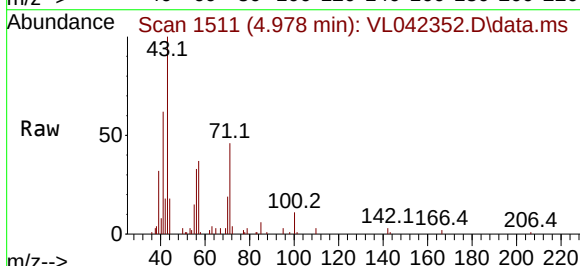
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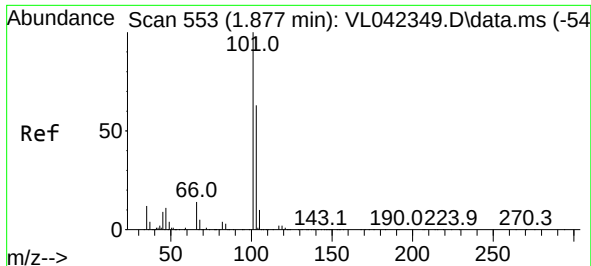
Tgt Ion: 43 Resp: 5438

Ion Ratio Lower Upper

43 100

57 138.4 39.9 59.9#

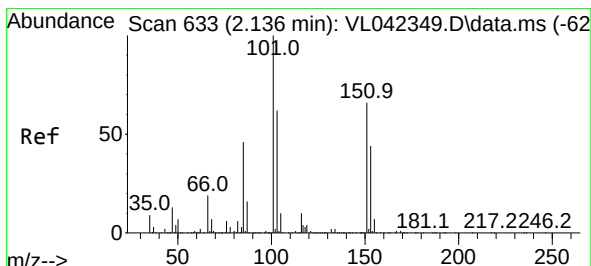
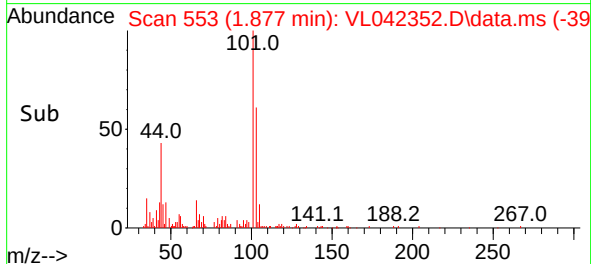
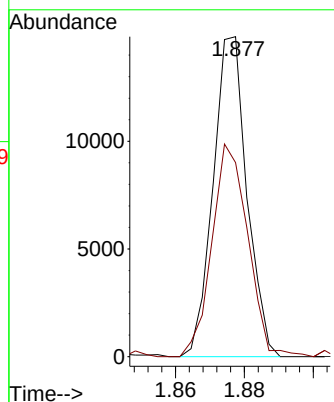
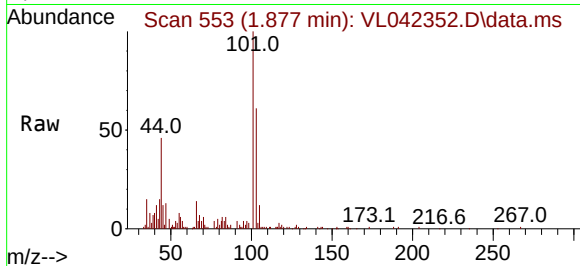




#11
 Trichlorofluoromethane
 Concen: 0.501 ppbv
 RT: 1.877 min Scan# 511
 Delta R.T. -0.000 min
 Lab File: VL042352.D
 Acq: 17 Apr 2025 11:19

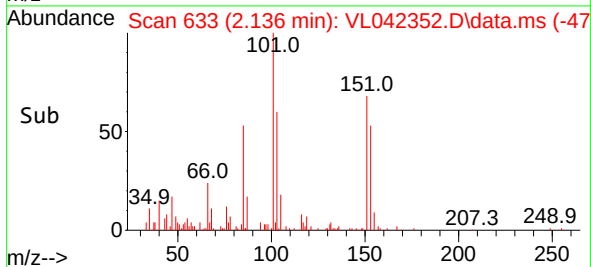
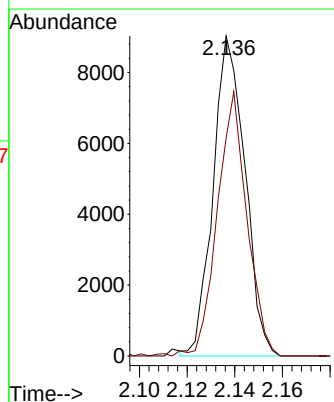
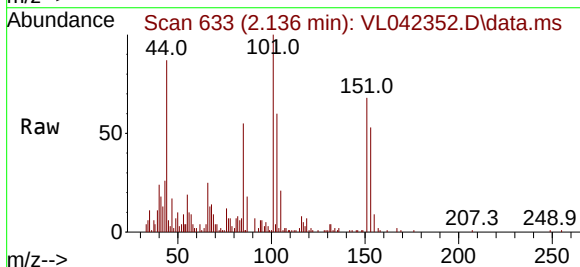
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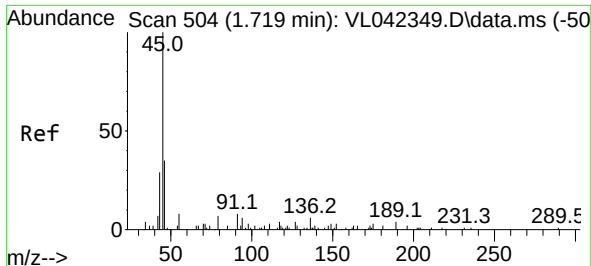
Tgt Ion:101 Resp: 10150
 Ion Ratio Lower Upper
 101 100
 103 60.6 50.1 75.1



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.506 ppbv
 RT: 2.136 min Scan# 633
 Delta R.T. -0.000 min
 Lab File: VL042352.D
 Acq: 17 Apr 2025 11:19

Tgt Ion:101 Resp: 8371
 Ion Ratio Lower Upper
 101 100
 151 77.4 57.0 85.6

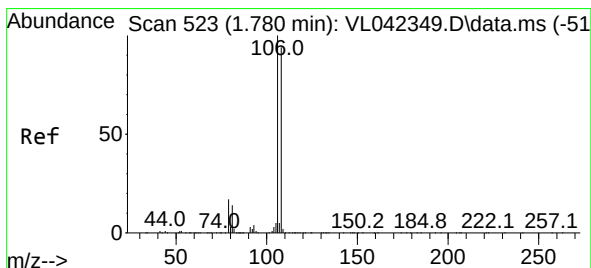
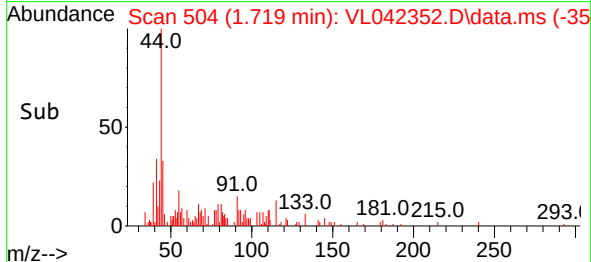
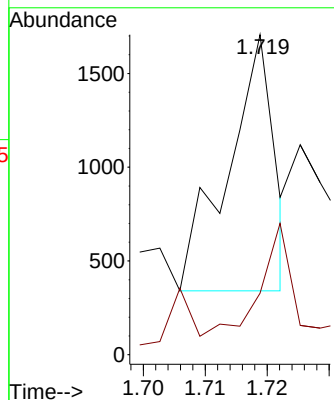
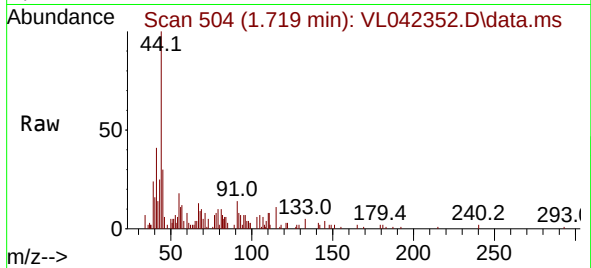




#13
Ethanol
Concen: 0.947 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

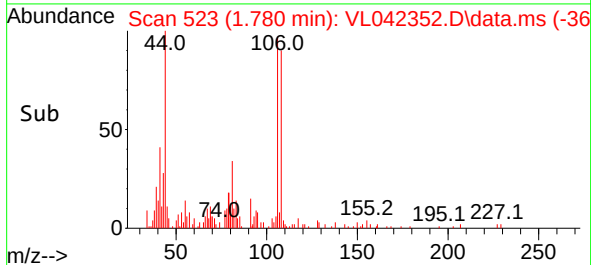
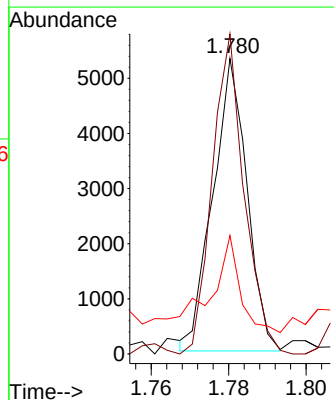
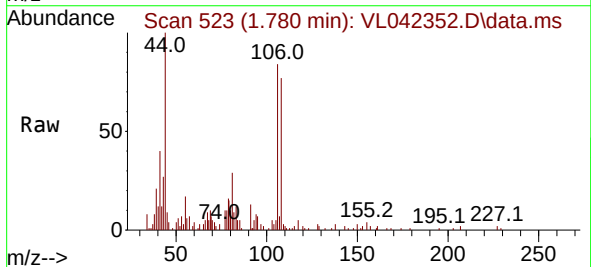
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

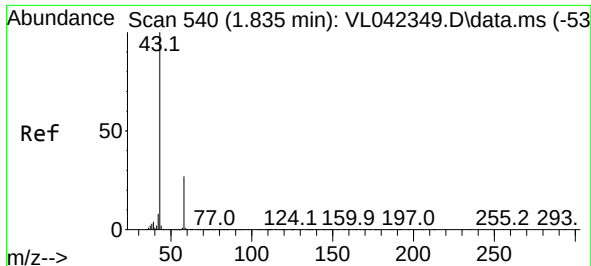
Tgt Ion: 45 Resp: 715
Ion Ratio Lower Upper
45 100
46 0.0 21.9 87.7#



#14
Bromoethene
Concen: 0.519 ppbv
RT: 1.780 min Scan# 523
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 108 Resp: 3238
Ion Ratio Lower Upper
108 100
106 110.3 85.9 128.9
79 33.0 13.9 20.9#

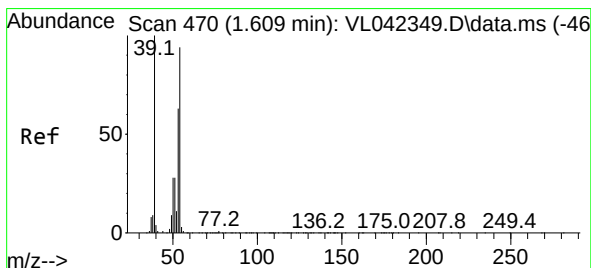
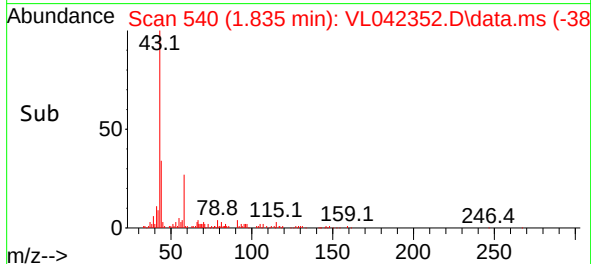
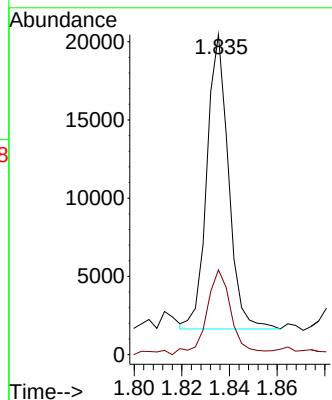
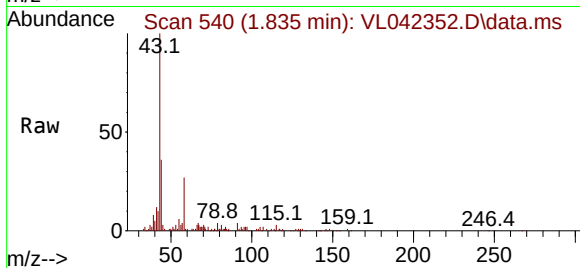




#15
Acetone
Concen: 0.601 ppbv
RT: 1.835 min Scan# 54
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

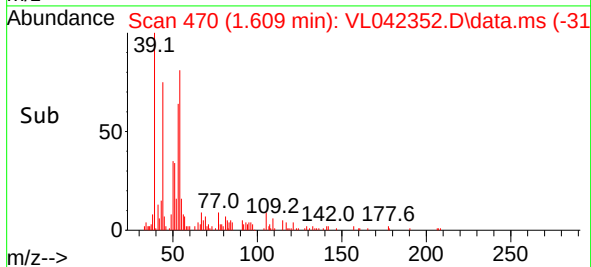
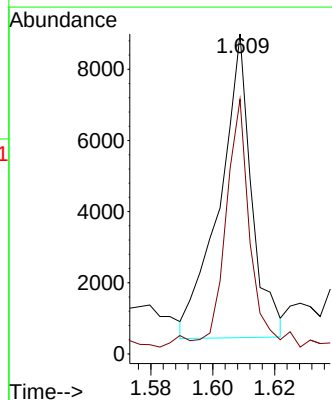
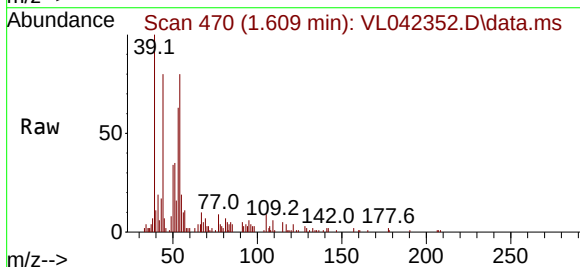
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

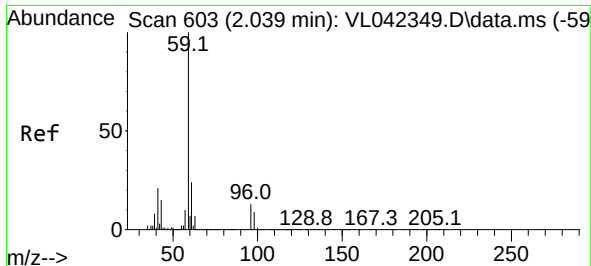
Tgt Ion: 43 Resp: 11859
Ion Ratio Lower Upper
43 100
58 41.7 22.4 33.6#



#16
1,3-Butadiene
Concen: 0.660 ppbv
RT: 1.609 min Scan# 470
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 39 Resp: 6120
Ion Ratio Lower Upper
39 100
54 64.7 64.9 97.3#





#17

tert-Butyl alcohol

Concen: 0.558 ppbv

RT: 2.043 min Scan# 603

Delta R.T. 0.003 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA_1

ClientSampleId :

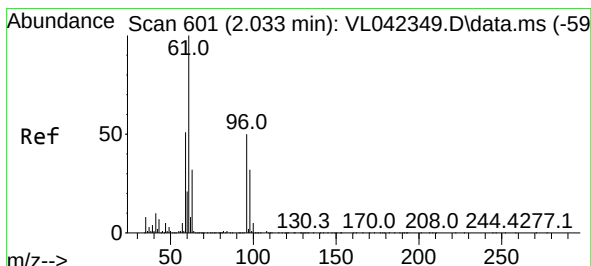
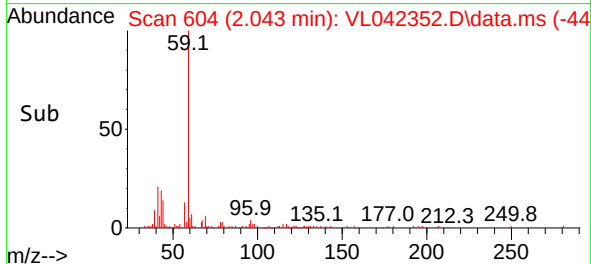
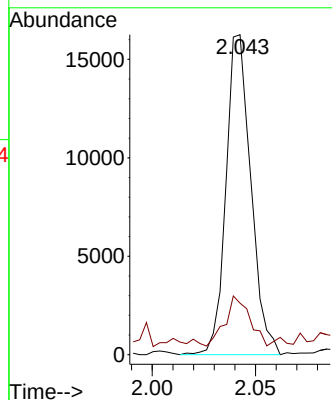
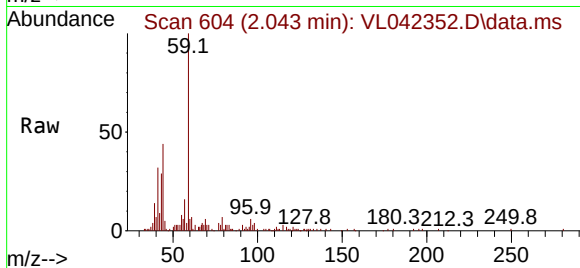
VSTDIC0.5

Tgt Ion: 59 Resp: 13640

Ion Ratio Lower Upper

59 100

57 16.5 8.7 13.1#



#18

1,1-Dichloroethene

Concen: 0.556 ppbv

RT: 2.033 min Scan# 601

Delta R.T. -0.000 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

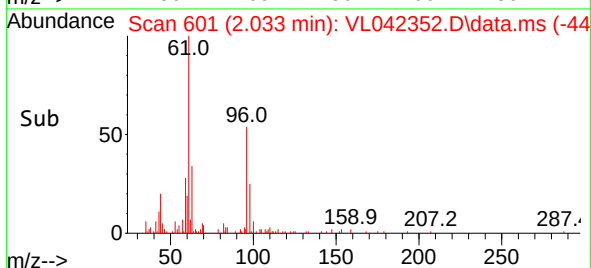
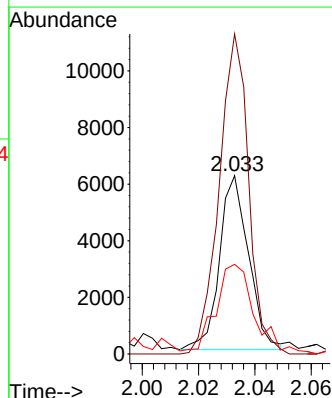
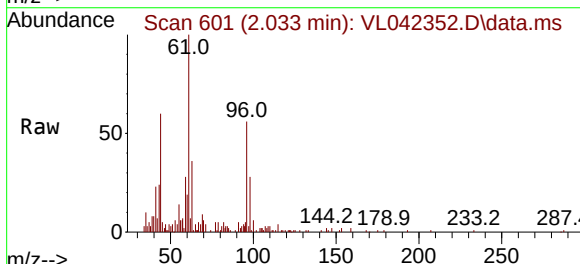
Tgt Ion: 96 Resp: 4430

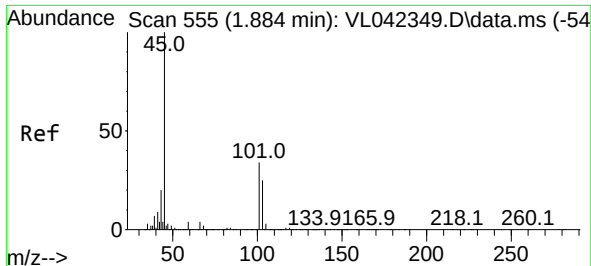
Ion Ratio Lower Upper

96 100

61 183.9 160.2 240.2

98 49.7 51.0 76.4#

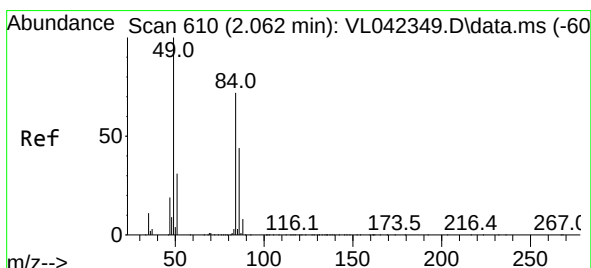
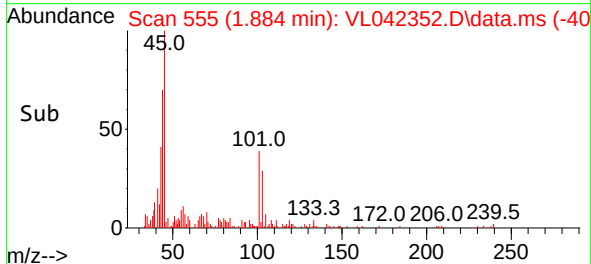
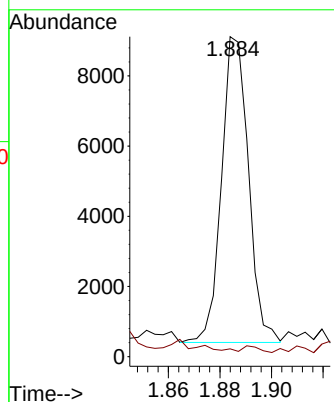
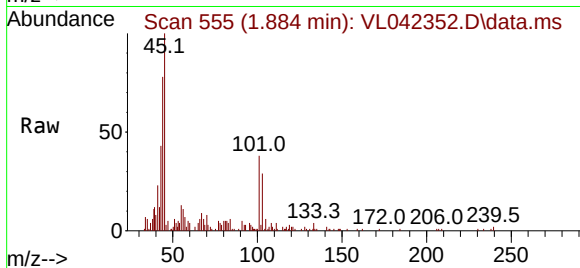




#19
Isopropyl Alcohol
Concen: 0.577 ppbv
RT: 1.884 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

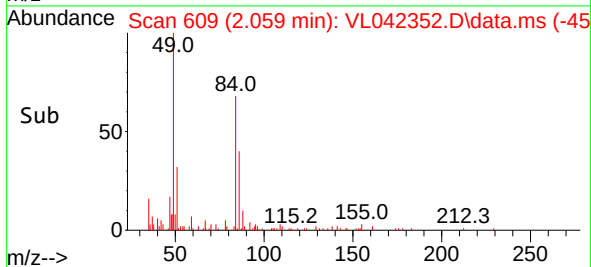
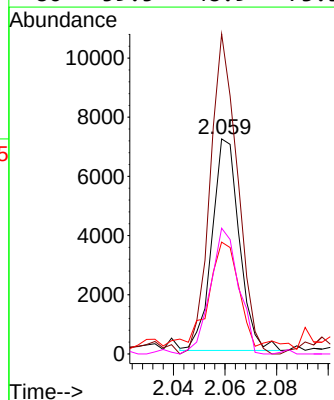
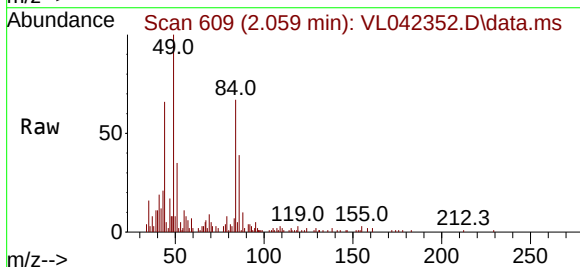
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

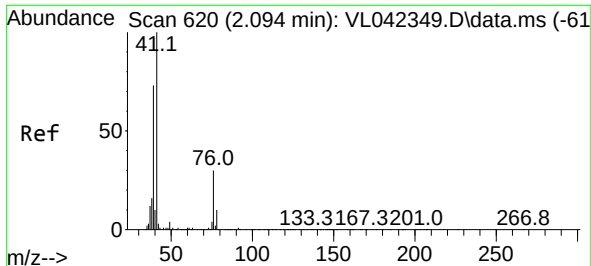
Tgt Ion: 45 Resp: 6327
Ion Ratio Lower Upper
45 100
58 3.8 34.5 51.7#



#20
Methylene Chloride
Concen: 0.682 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 84 Resp: 5273
Ion Ratio Lower Upper
84 100
49 151.3 111.6 167.4
51 48.1 35.1 52.7
86 59.5 48.9 73.3

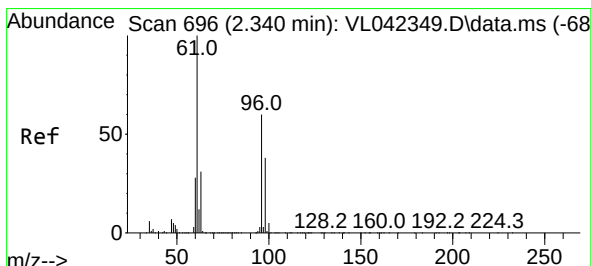
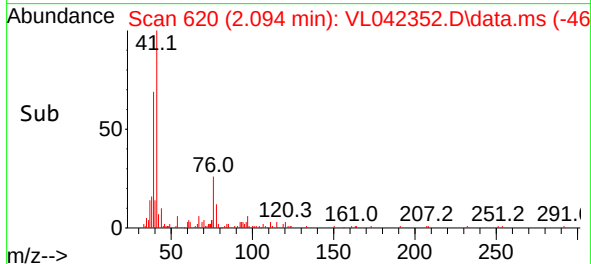
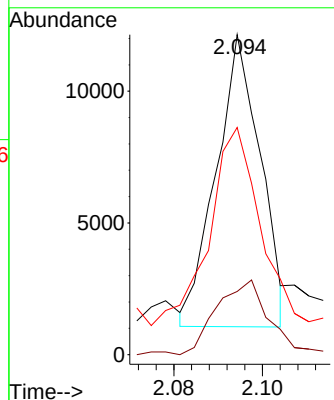
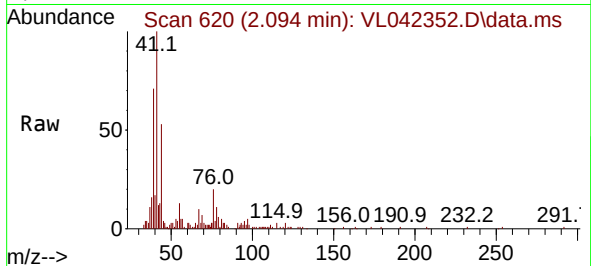




#21
 Allyl Chloride
 Concen: 0.565 ppbv
 RT: 2.094 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: VL042352.D
 Acq: 17 Apr 2025 11:19

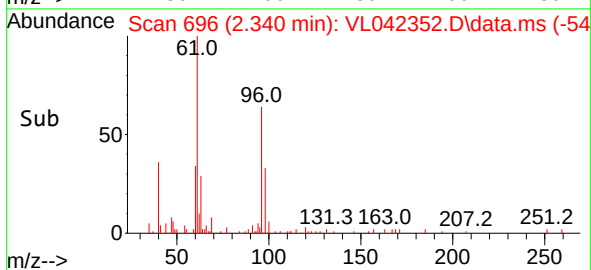
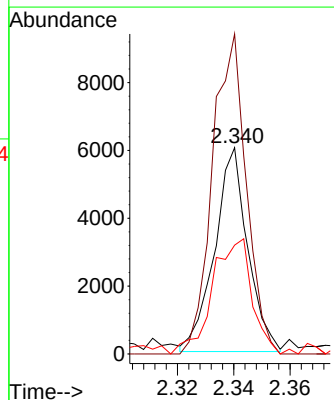
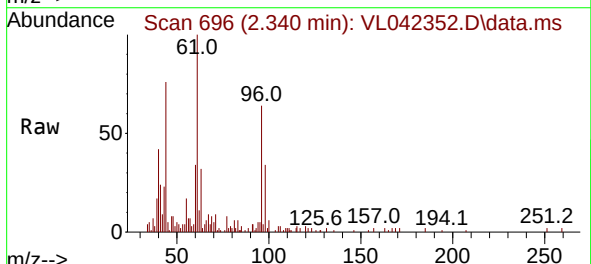
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

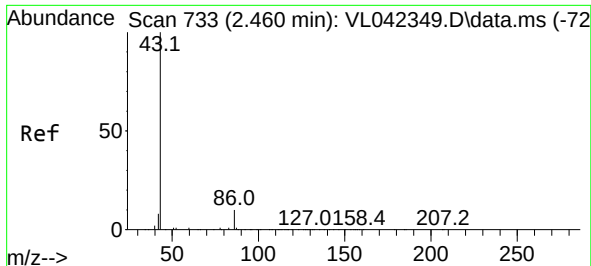
Tgt Ion: 41 Resp: 7692
 Ion Ratio Lower Upper
 41 100
 76 31.1 24.8 37.2
 39 98.8 60.6 90.8#



#22
 trans-1,2-Dichloroethene
 Concen: 0.557 ppbv
 RT: 2.340 min Scan# 696
 Delta R.T. -0.000 min
 Lab File: VL042352.D
 Acq: 17 Apr 2025 11:19

Tgt Ion: 96 Resp: 4908
 Ion Ratio Lower Upper
 96 100
 61 158.7 133.7 200.5
 98 54.0 50.3 75.5

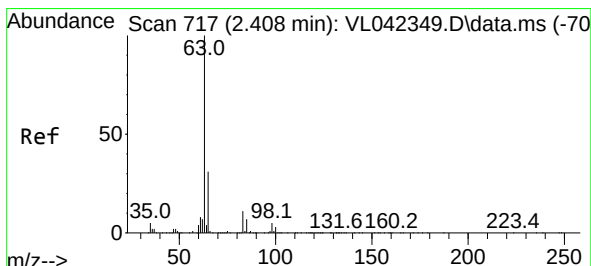
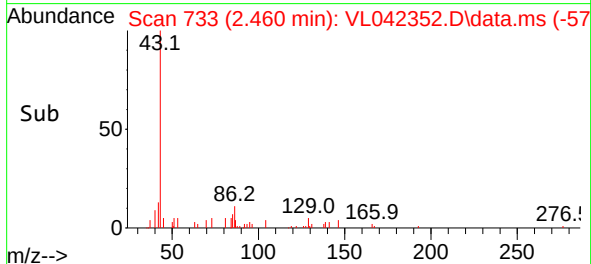
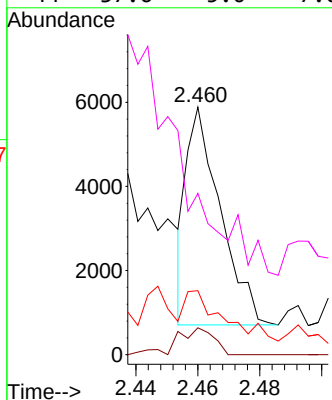
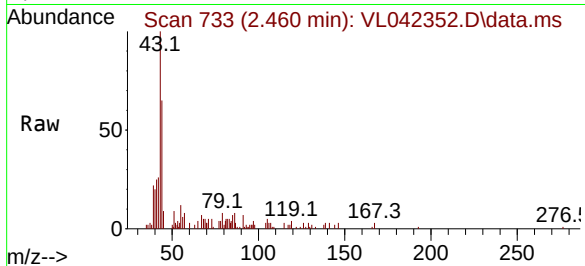




#23
 Vinyl Acetate
 Concen: 0.495 ppbv
 RT: 2.460 min Scan# 717
 Delta R.T. -0.000 min
 Lab File: VL042352.D
 Acq: 17 Apr 2025 11:19

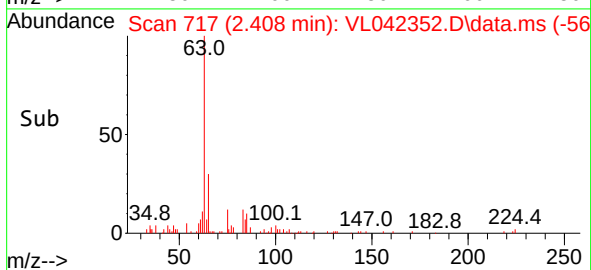
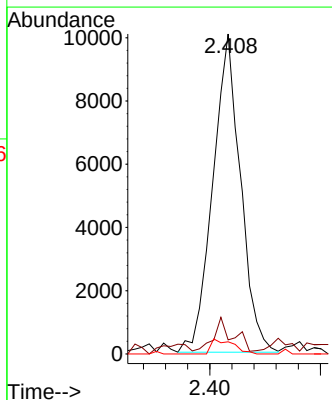
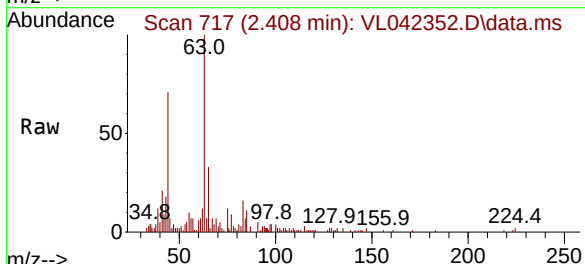
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5

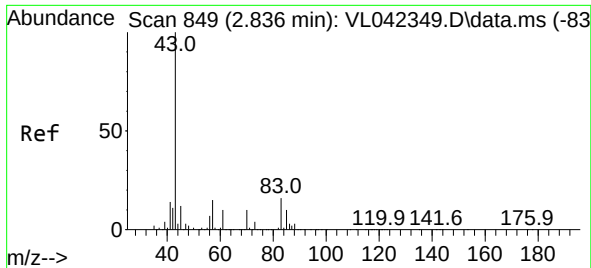
Tgt Ion:	43	Resp:	3953
Ion	Ratio	Lower	Upper
43	100		
86	12.4	6.5	9.7#
42	23.2	7.8	11.8#
44	37.6	5.0	7.6#



#24
 1,1-Dichloroethane
 Concen: 0.523 ppbv
 RT: 2.408 min Scan# 717
 Delta R.T. -0.000 min
 Lab File: VL042352.D
 Acq: 17 Apr 2025 11:19

Tgt Ion:	63	Resp:	8753
Ion	Ratio	Lower	Upper
63	100		
98	1.4	2.3	6.8#
100	3.8	1.6	4.8

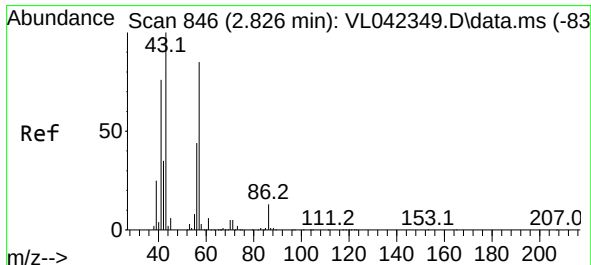
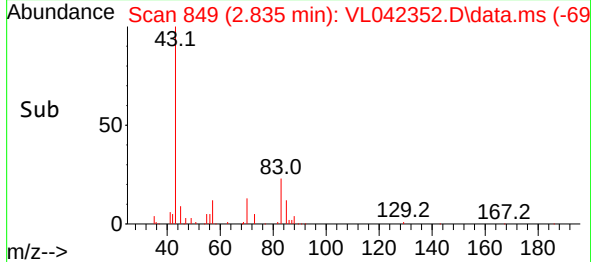
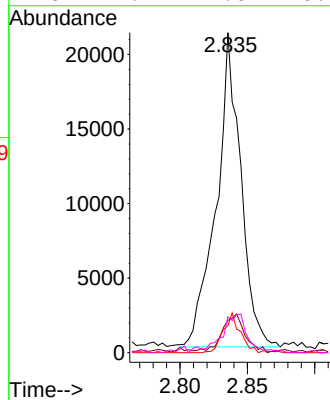
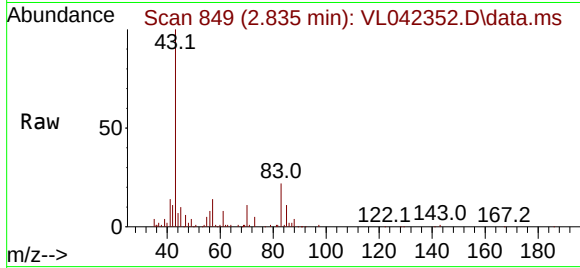




#25
Ethyl Acetate
Concen: 0.548 ppbv
RT: 2.835 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

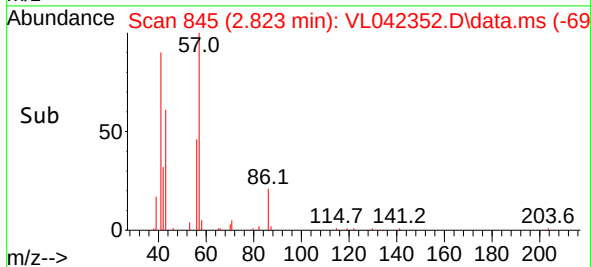
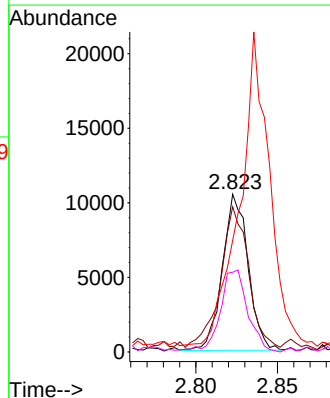
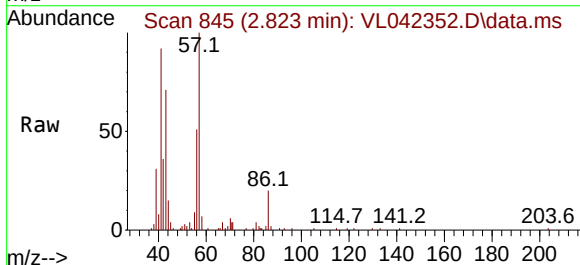
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

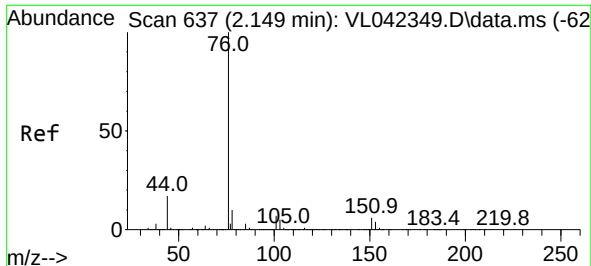
Tgt Ion:	43	Resp:	26686
Ion	Ratio	Lower	Upper
43	100		
45	13.3	8.3	12.5#
61	9.0	7.3	10.9
70	14.1	7.0	10.6#



#26
Hexane
Concen: 0.581 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:	57	Resp:	11448
Ion	Ratio	Lower	Upper
57	100		
41	103.5	77.9	116.9
43	240.0	208.4	312.6
56	52.5	43.1	64.7

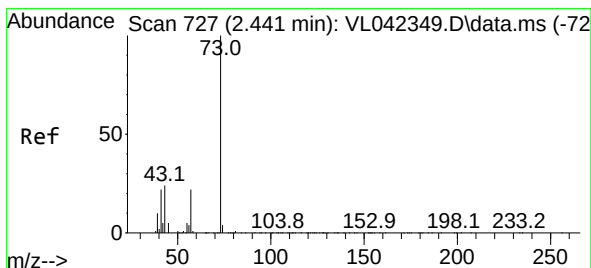
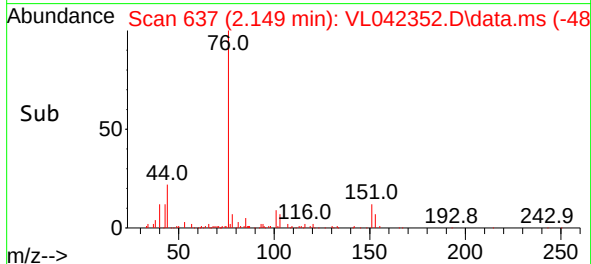
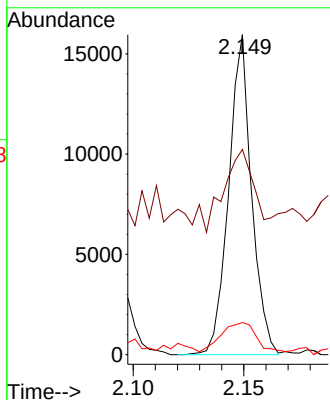
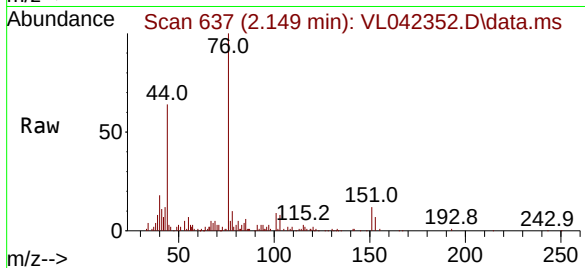




#27
Carbon Disulfide
Concen: 0.544 ppbv
RT: 2.149 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

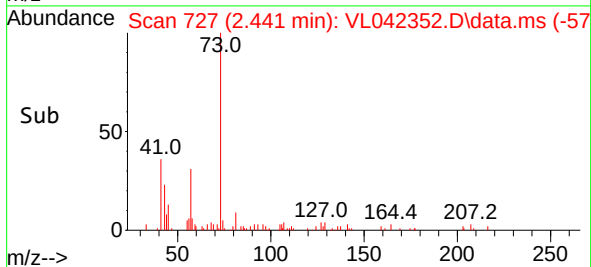
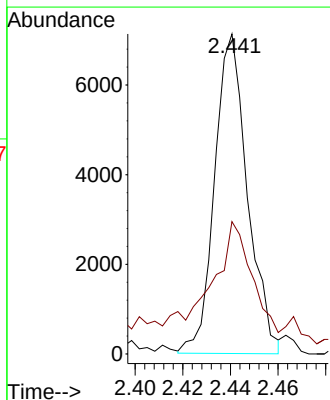
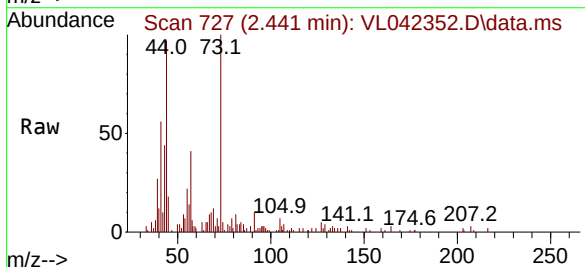
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

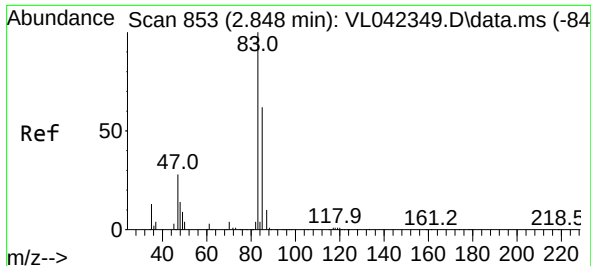
Tgt Ion: 76 Resp: 11472
Ion Ratio Lower Upper
76 100
44 123.7 15.5 23.3#
78 18.8 9.3 13.9#



#28
Methyl tert-Butyl Ether
Concen: 0.530 ppbv
RT: 2.441 min Scan# 727
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 73 Resp: 6833
Ion Ratio Lower Upper
73 100
57 61.8 21.3 31.9#





#29

Chloroform

Concen: 0.532 ppbv

RT: 2.848 min Scan# 81

Delta R.T. -0.000 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA_L

ClientSampleId :

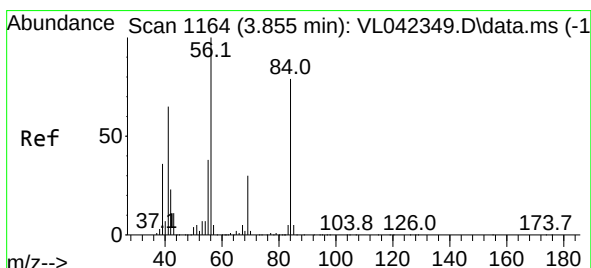
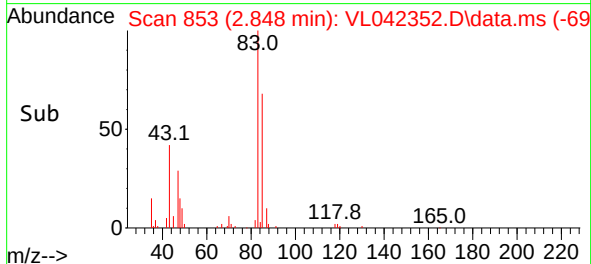
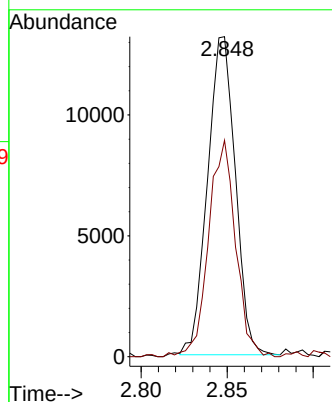
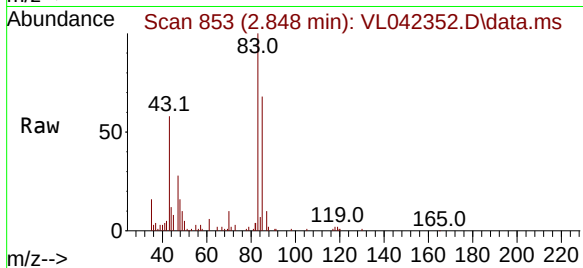
VSTDICC0.5

Tgt Ion: 83 Resp: 14815

Ion Ratio Lower Upper

83 100

85 68.0 50.0 75.0



#30

Cyclohexane

Concen: 0.541 ppbv

RT: 3.852 min Scan# 1163

Delta R.T. -0.003 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

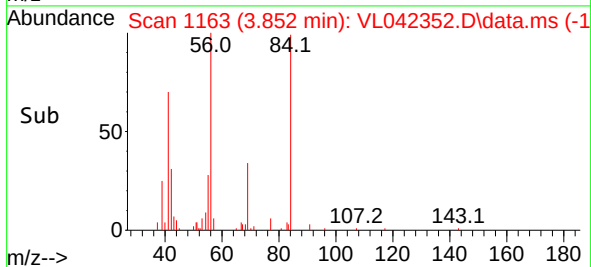
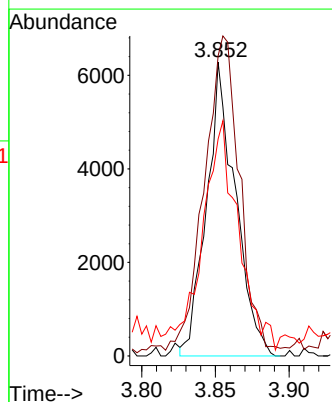
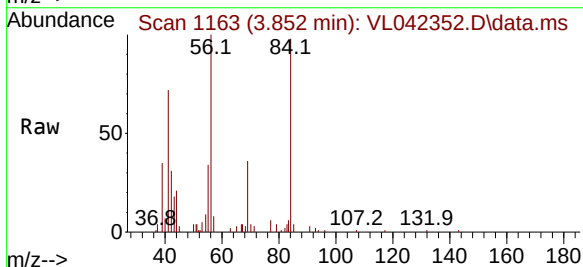
Tgt Ion: 84 Resp: 8572

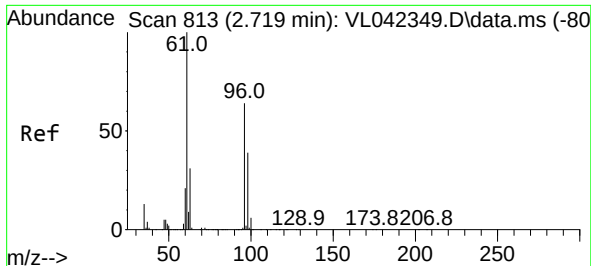
Ion Ratio Lower Upper

84 100

56 132.8 101.0 151.4

41 89.8 67.4 101.0

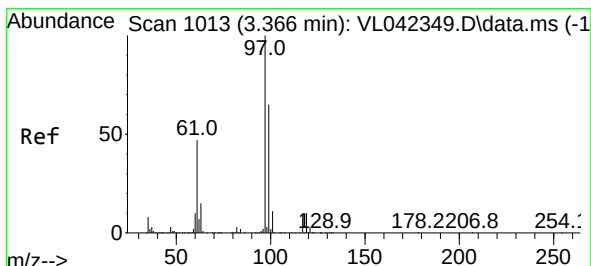
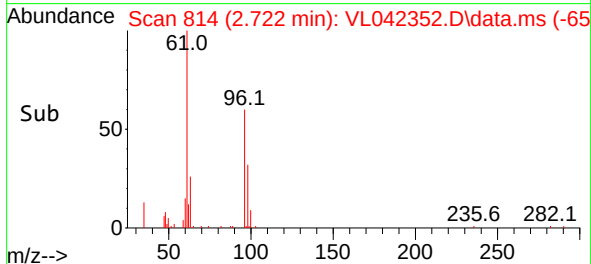
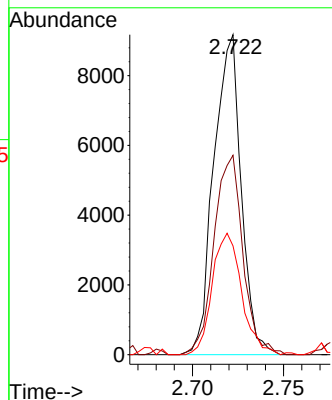
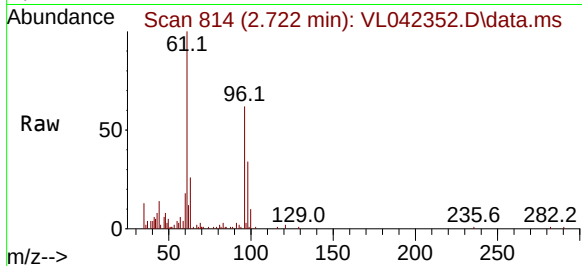




#31
 cis-1,2-Dichloroethene
 Concen: 0.511 ppbv
 RT: 2.722 min Scan# 813
 Delta R.T. 0.003 min
 Lab File: VL042352.D
 Acq: 17 Apr 2025 11:19

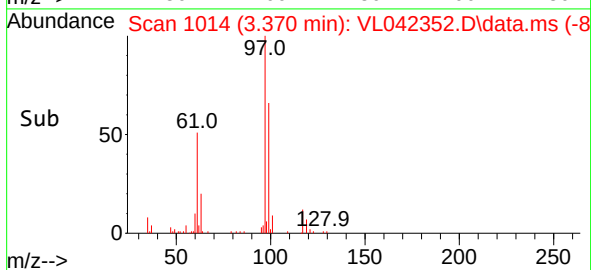
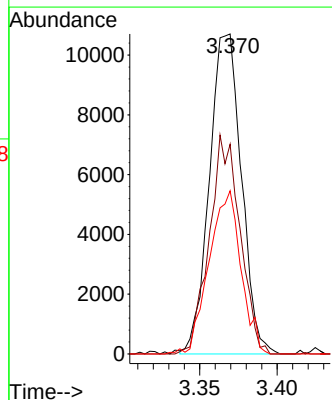
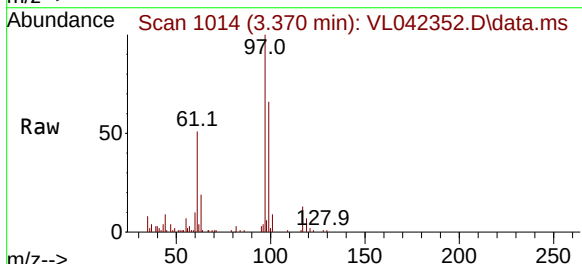
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

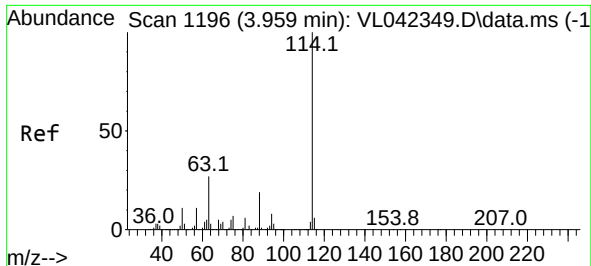
Tgt Ion: 61 Resp: 9571
 Ion Ratio Lower Upper
 61 100
 96 62.3 50.8 76.2
 98 34.0 30.9 46.3



#32
 1,1,1-Trichloroethane
 Concen: 0.516 ppbv
 RT: 3.370 min Scan# 1014
 Delta R.T. 0.003 min
 Lab File: VL042352.D
 Acq: 17 Apr 2025 11:19

Tgt Ion: 97 Resp: 15413
 Ion Ratio Lower Upper
 97 100
 99 65.6 51.0 76.4
 61 50.8 38.8 58.2

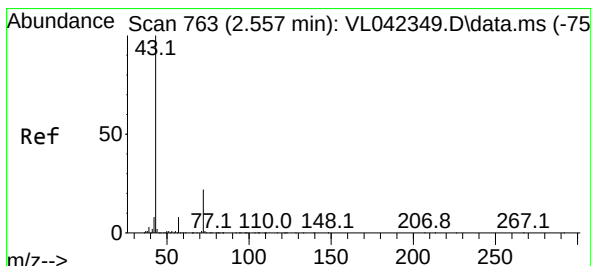
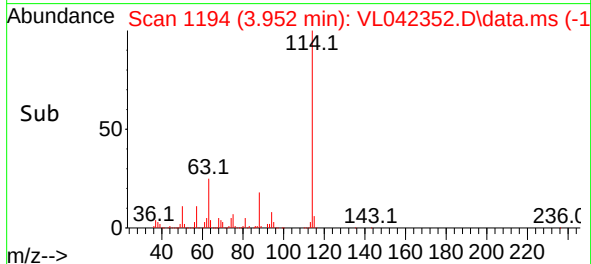
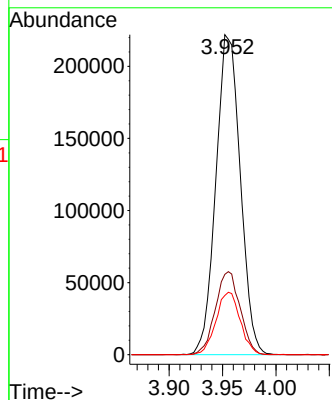
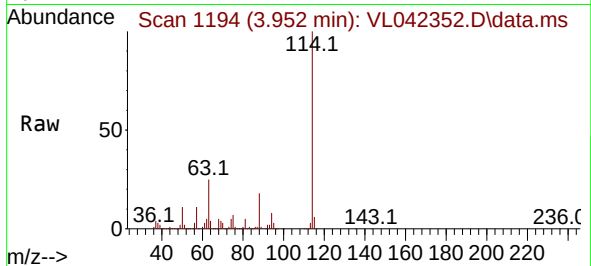




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.952 min Scan# 1194
 Delta R.T. -0.006 min
 Lab File: VL042352.D
 Acq: 17 Apr 2025 11:19

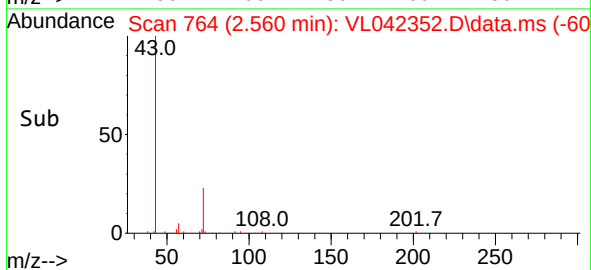
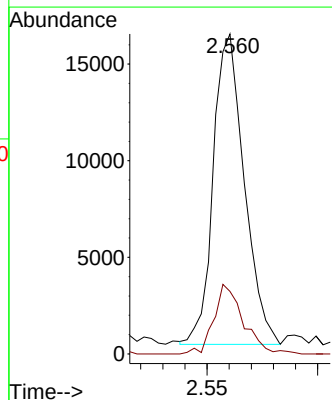
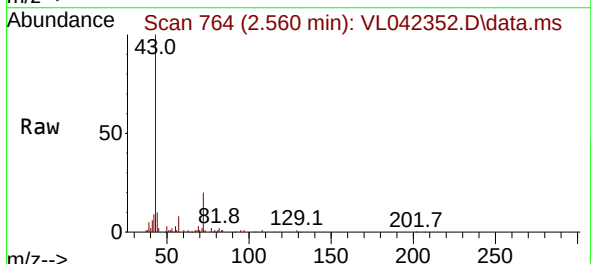
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5

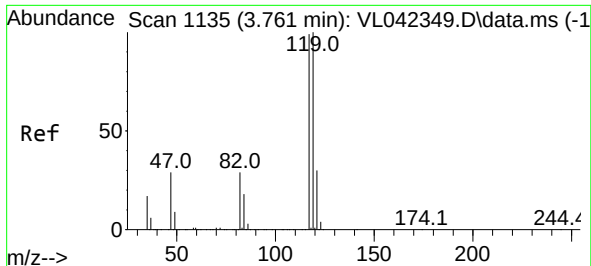
Tgt Ion:114 Resp: 353137
 Ion Ratio Lower Upper
 114 100
 63 26.3 21.8 32.6
 88 19.4 15.5 23.3



#34
 2-Butanone
 Concen: 0.560 ppbv
 RT: 2.560 min Scan# 764
 Delta R.T. 0.003 min
 Lab File: VL042352.D
 Acq: 17 Apr 2025 11:19

Tgt Ion: 43 Resp: 15640
 Ion Ratio Lower Upper
 43 100
 72 21.3 18.2 27.2

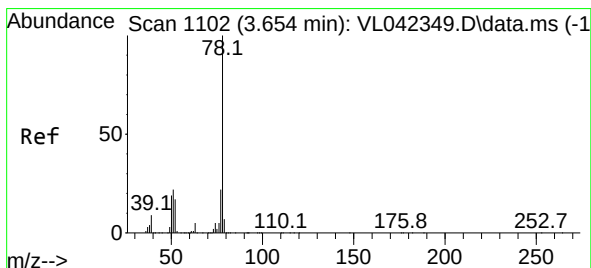
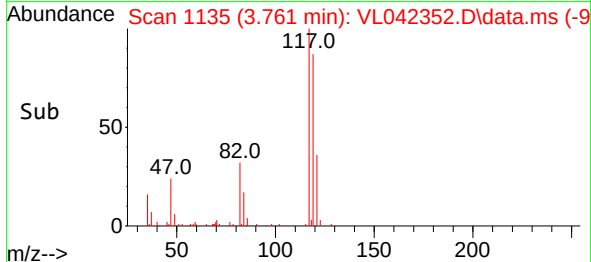
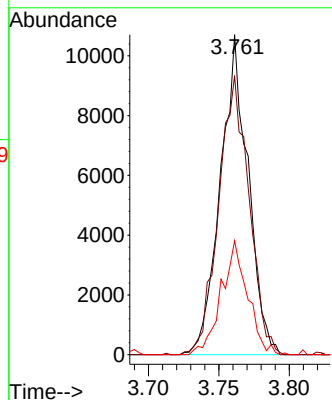
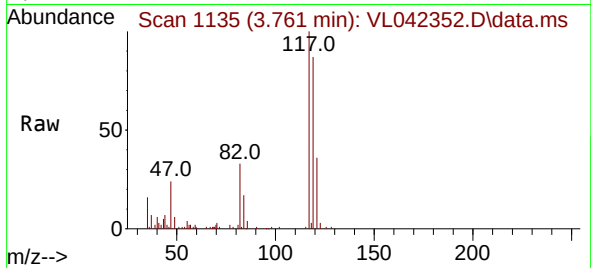




#35
Carbon Tetrachloride
Concen: 0.459 ppbv
RT: 3.761 min Scan# 1135
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

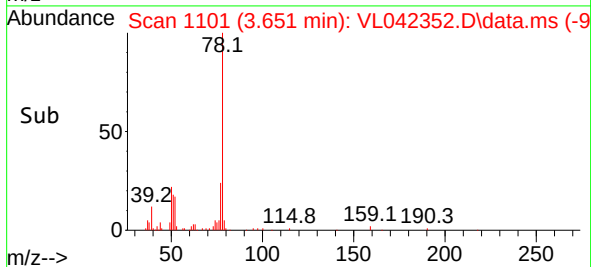
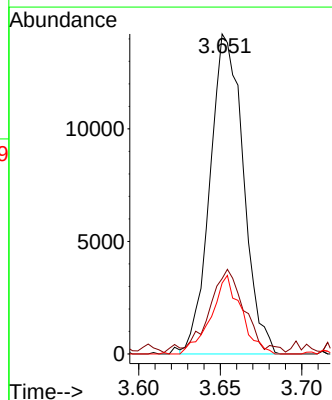
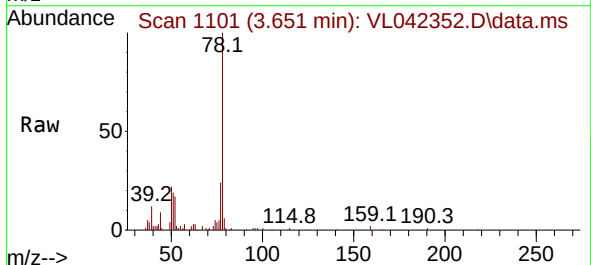
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

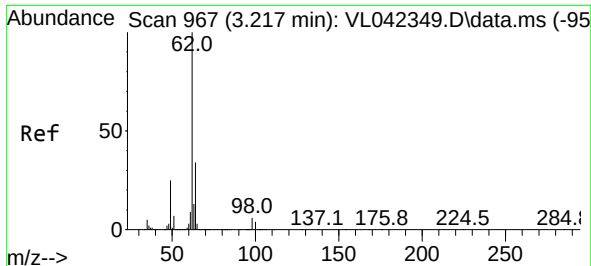
Tgt Ion: 117 Resp: 14683
Ion Ratio Lower Upper
117 100
119 87.2 80.5 120.7
121 35.6 24.2 36.2



#36
Benzene
Concen: 0.531 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 78 Resp: 20233
Ion Ratio Lower Upper
78 100
77 21.7 17.4 26.0
50 22.1 15.5 23.3

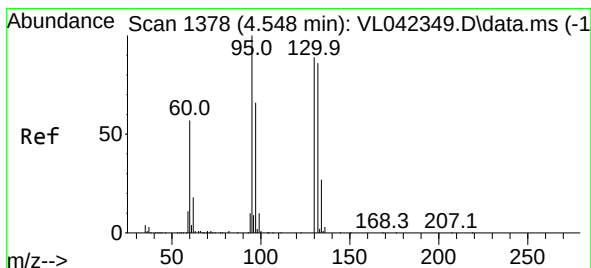
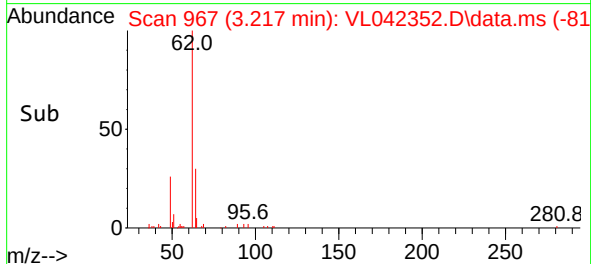
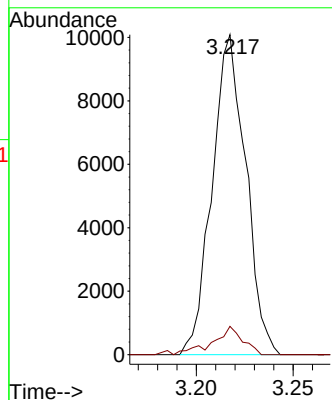
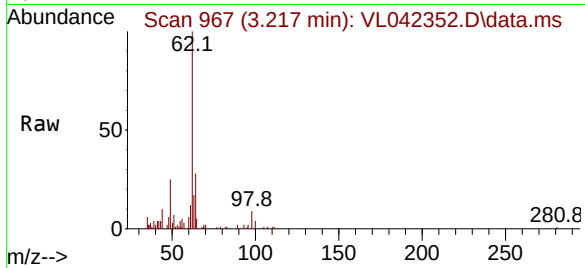




#37
1,2-Dichloroethane
Concen: 0.533 ppbv
RT: 3.217 min Scan# 967
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

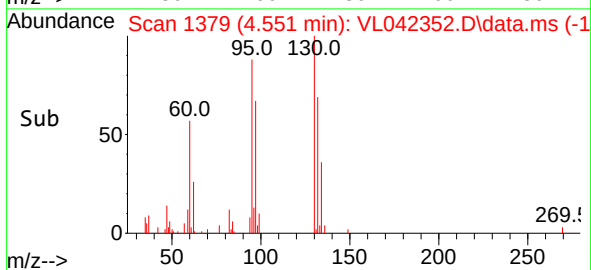
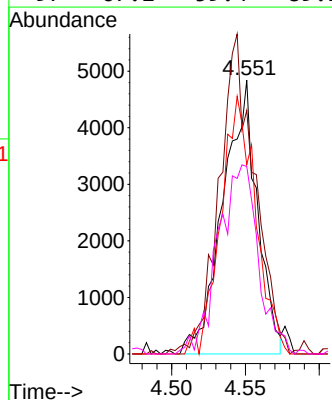
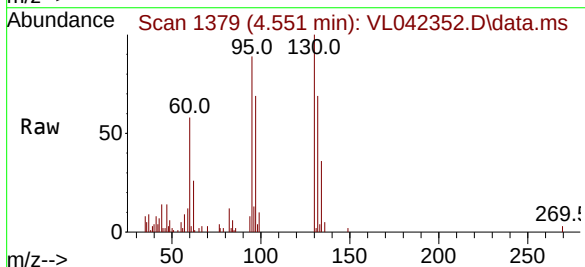
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

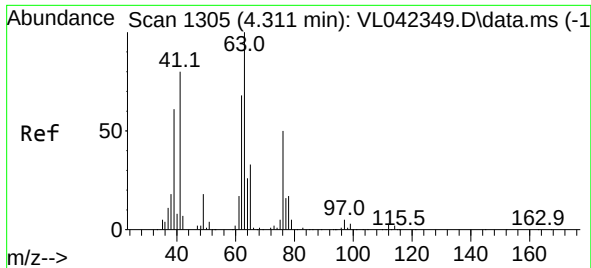
Tgt Ion: 62 Resp: 12194
Ion Ratio Lower Upper
62 100
98 8.1 5.1 7.7#



#38
Trichloroethene
Concen: 0.468 ppbv
RT: 4.551 min Scan# 1379
Delta R.T. 0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:130 Resp: 7819
Ion Ratio Lower Upper
130 100
95 86.2 89.8 134.6#
132 69.1 77.7 116.5#
97 67.2 59.4 89.2





#39

1,2-Dichloropropane

Concen: 0.225 ppbv

RT: 4.315 min Scan# 11

Delta R.T. 0.003 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

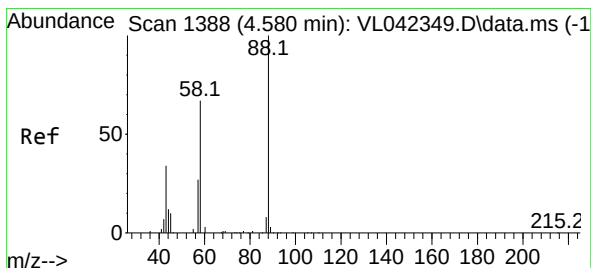
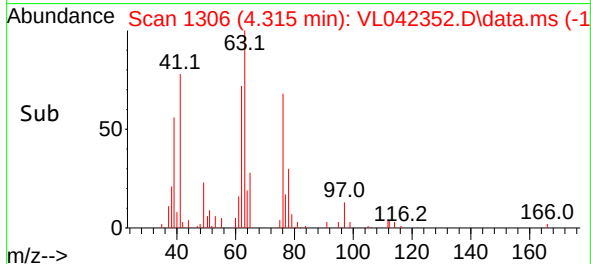
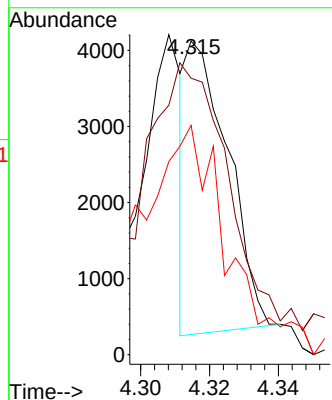
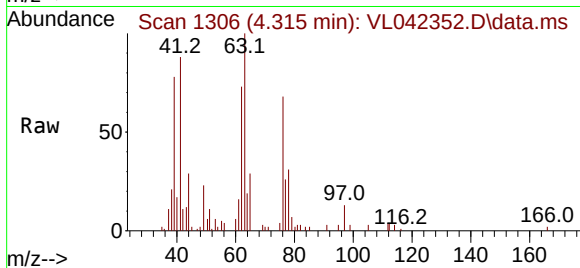
Tgt Ion: 63 Resp: 3195

Ion Ratio Lower Upper

63 100

41 90.7 64.2 96.2

62 75.2 54.3 81.5



#40

1,4-Dioxane

Concen: 0.331 ppbv

RT: 4.599 min Scan# 1394

Delta R.T. 0.019 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Tgt Ion: 88 Resp: 2550

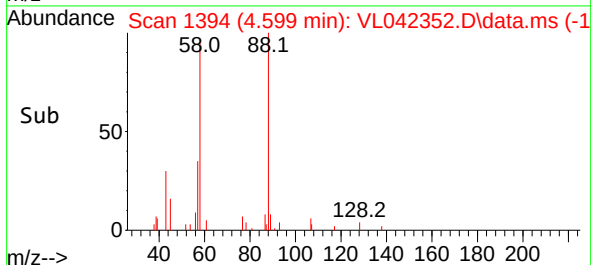
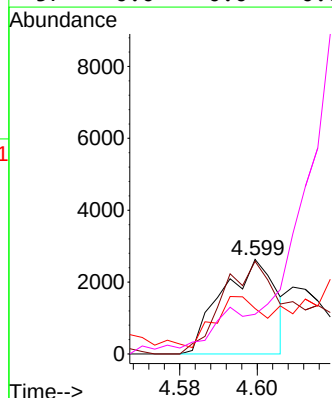
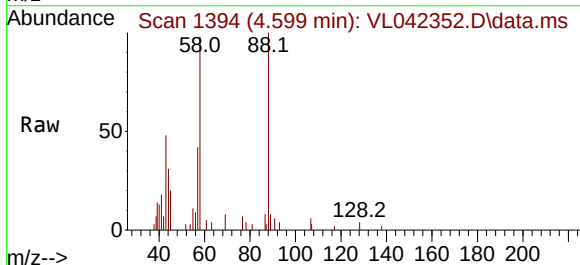
Ion Ratio Lower Upper

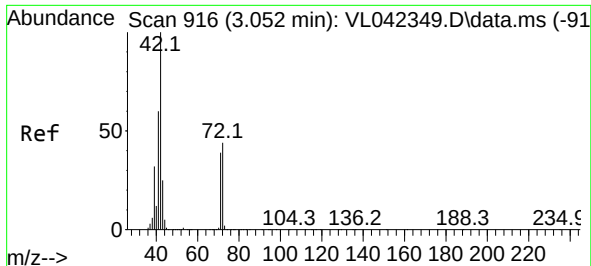
88 100

58 214.8 61.4 92.0#

43 0.0 23.2 34.8#

57 0.0 0.0 0.0





#41

Tetrahydrofuran

Concen: 0.544 ppbv

RT: 3.062 min Scan# 916

Delta R.T. 0.010 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

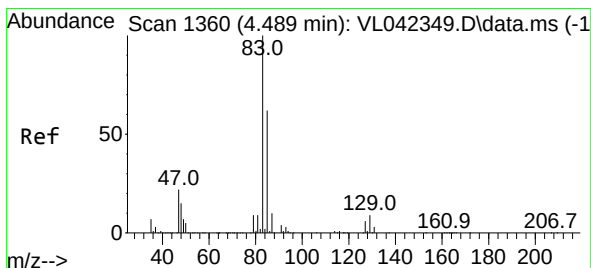
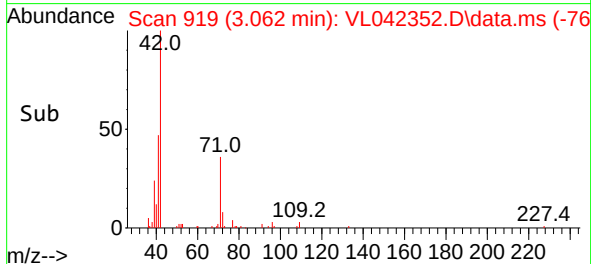
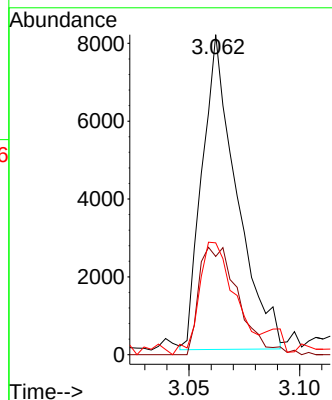
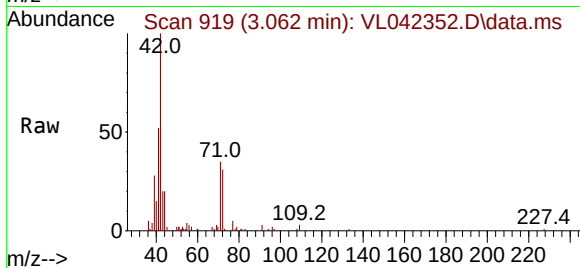
Tgt Ion: 42 Resp: 8773

Ion Ratio Lower Upper

42 100

72 39.3 32.3 48.5

71 44.9 31.4 47.2



#42

Bromodichloromethane

Concen: 0.523 ppbv

RT: 4.489 min Scan# 1360

Delta R.T. -0.000 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

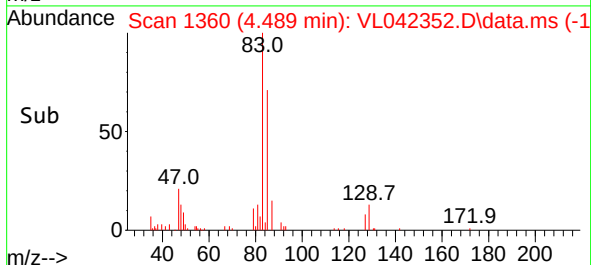
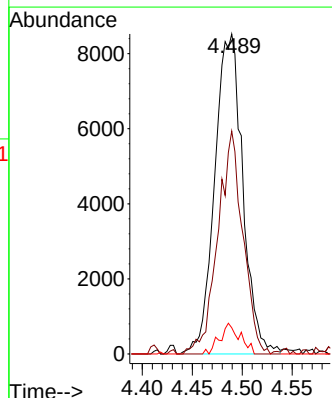
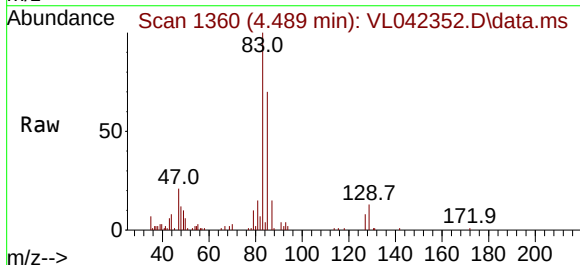
Tgt Ion: 83 Resp: 16642

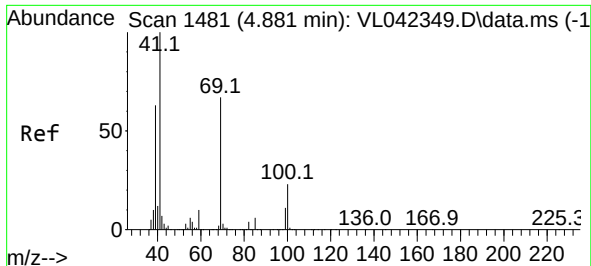
Ion Ratio Lower Upper

83 100

85 69.6 49.7 74.5

127 8.2 5.1 7.7#





#43

Methyl Methacrylate

Concen: 0.091 ppbv

RT: 4.871 min Scan# 1481

Delta R.T. -0.010 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

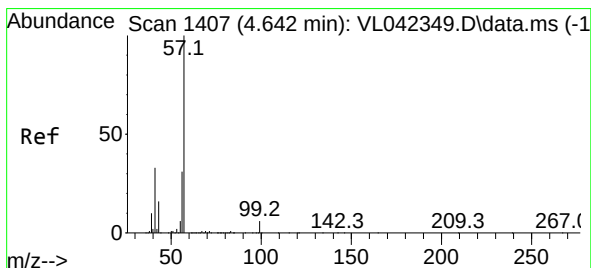
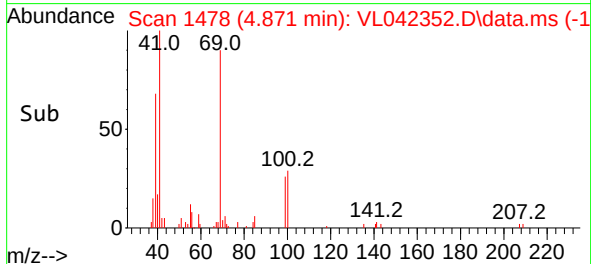
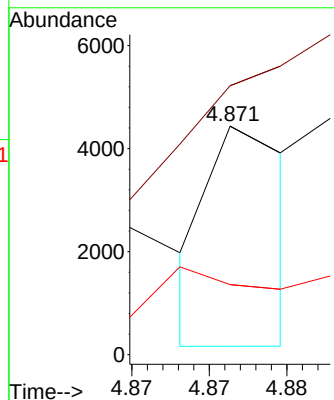
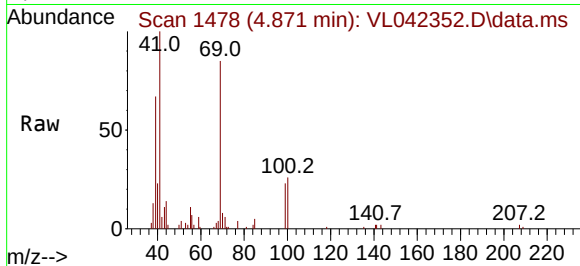
Tgt Ion: 69 Resp: 1556

Ion Ratio Lower Upper

69 100

41 0.0 118.6 177.8#

100 0.0 28.2 42.2#



#44

2,2,4-Trimethylpentane

Concen: 0.519 ppbv

RT: 4.635 min Scan# 1405

Delta R.T. -0.006 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

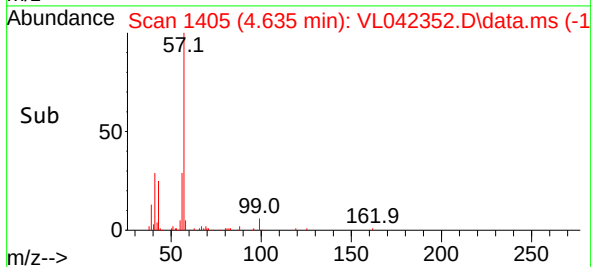
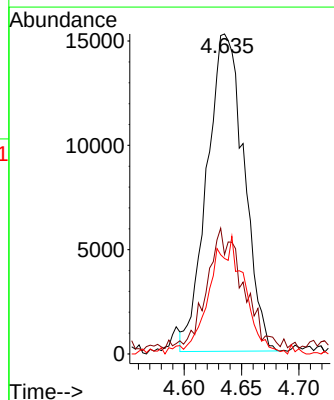
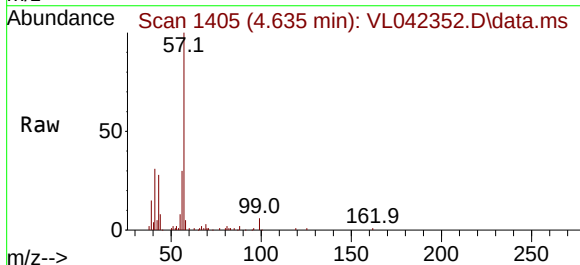
Tgt Ion: 57 Resp: 34170

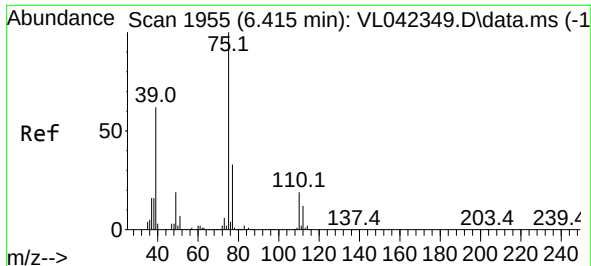
Ion Ratio Lower Upper

57 100

41 39.1 27.2 40.8

56 37.1 25.7 38.5





#45

t-1,3-Dichloropropene

Concen: 0.076 ppbv

RT: 6.393 min Scan# 1955

Delta R.T. -0.023 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA_L

ClientSampleId :

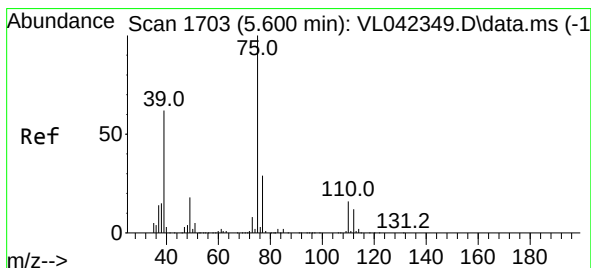
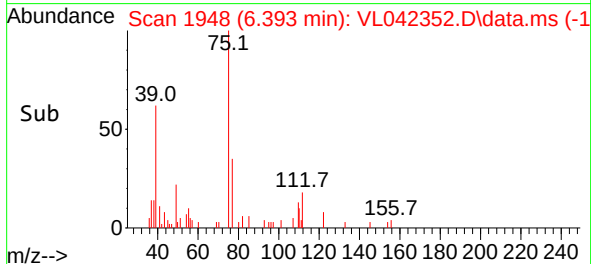
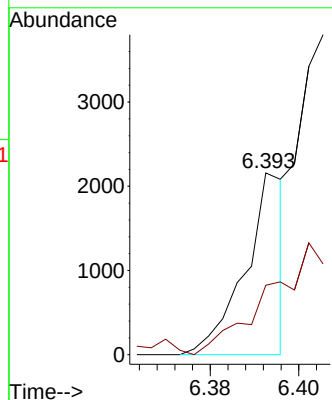
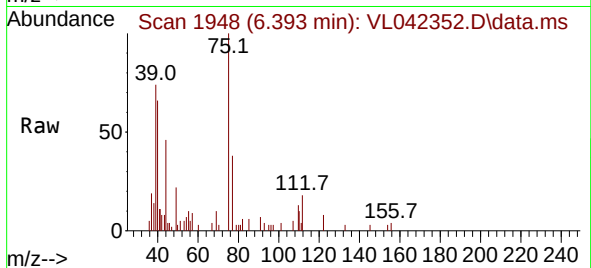
VSTDIC0.5

Tgt Ion: 75 Resp: 1332

Ion Ratio Lower Upper

75 100

77 38.2 27.0 40.6



#46

cis-1,3-Dichloropropene

Concen: 0.356 ppbv

RT: 5.596 min Scan# 1702

Delta R.T. -0.003 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

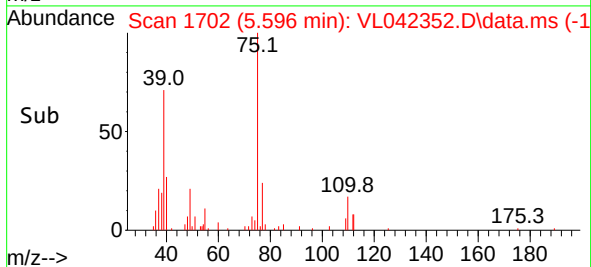
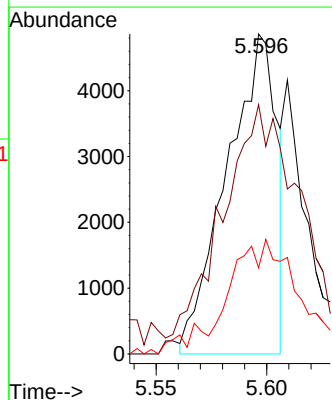
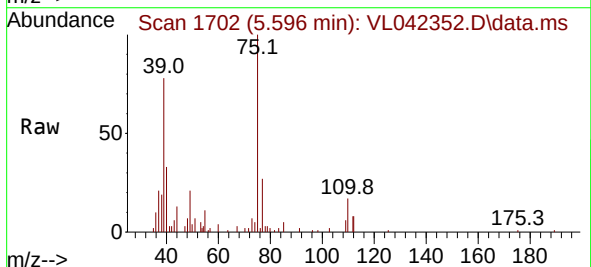
Tgt Ion: 75 Resp: 7634

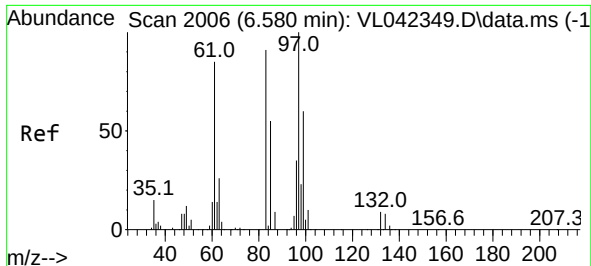
Ion Ratio Lower Upper

75 100

39 67.9 50.0 75.0

77 21.6 23.0 34.6#



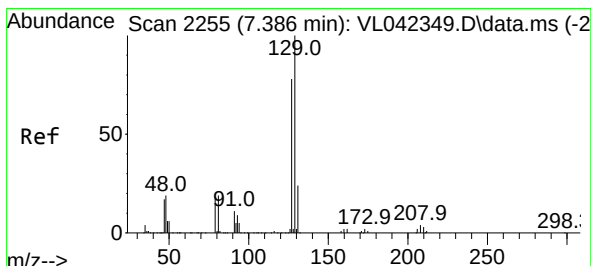
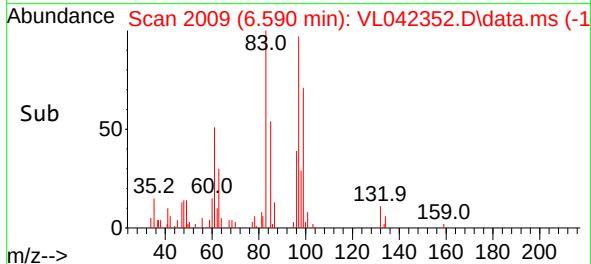
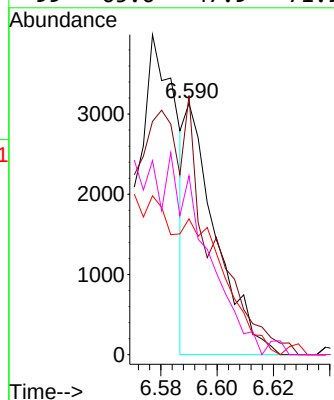
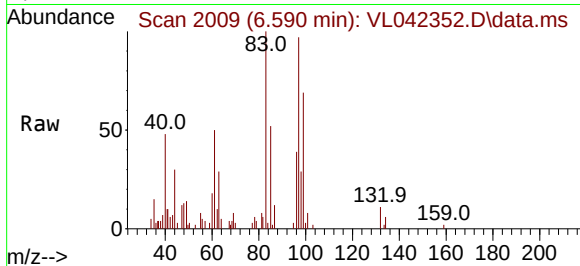


#47
1,1,2-Trichloroethane
Concen: 0.164 ppbv
RT: 6.590 min Scan# 2009
Delta R.T. 0.010 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 97 Resp: 2374

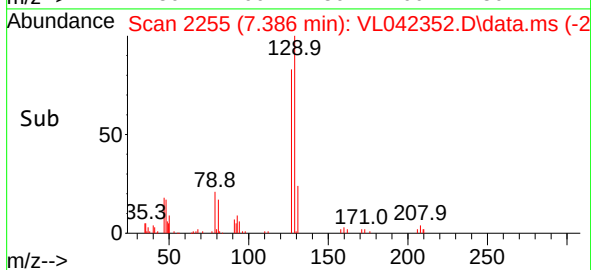
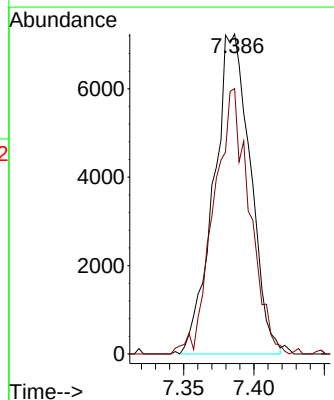
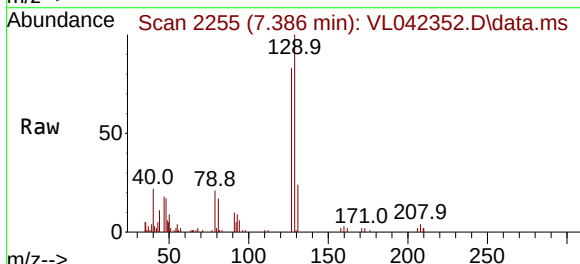
Ion	Ratio	Lower	Upper
97	100		
83	98.5	72.8	109.2
85	54.0	44.2	66.4
99	65.6	47.9	71.9

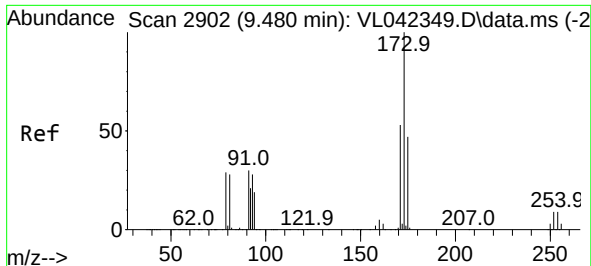


#48
Dibromochloromethane
Concen: 0.514 ppbv
RT: 7.386 min Scan# 2255
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 129 Resp: 13122

Ion	Ratio	Lower	Upper
129	100		
127	80.9	39.1	117.3

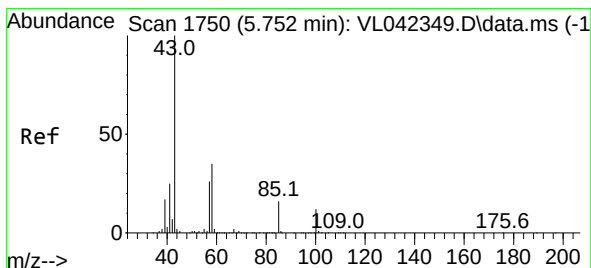
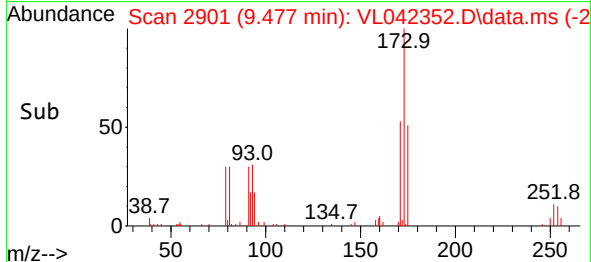
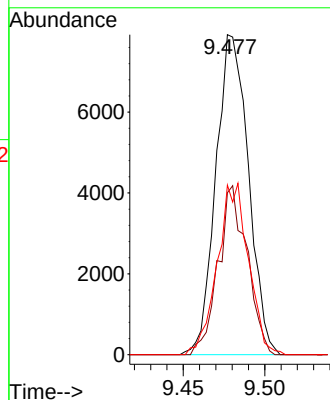
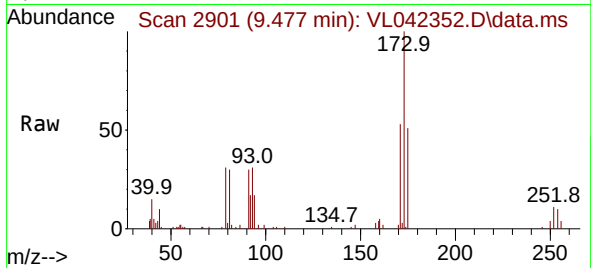




#49
Bromoform
Concen: 0.492 ppbv
RT: 9.477 min Scan# 2902
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

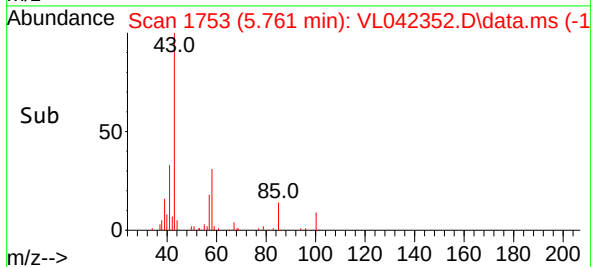
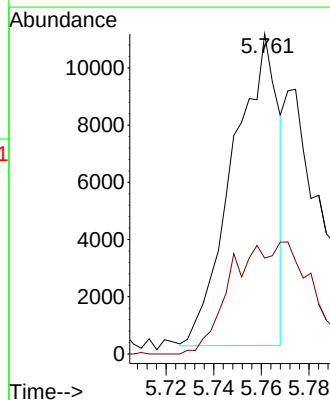
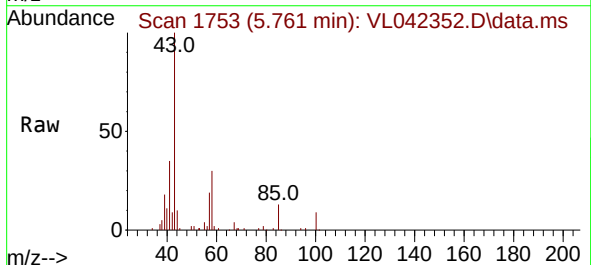
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

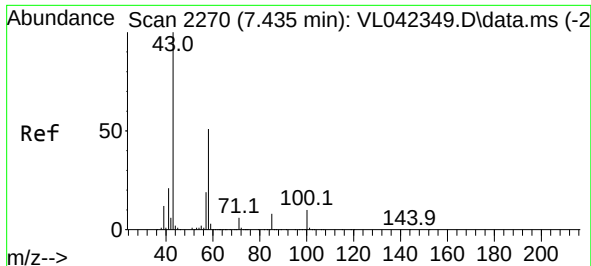
Tgt Ion:173 Resp: 10988
Ion Ratio Lower Upper
173 100
175 46.8 38.2 57.2
171 51.2 40.9 61.3



#50
4-Methyl-2-Pentanone
Concen: 0.309 ppbv
RT: 5.761 min Scan# 1753
Delta R.T. 0.010 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 43 Resp: 14380
Ion Ratio Lower Upper
43 100
58 0.0 28.6 43.0#

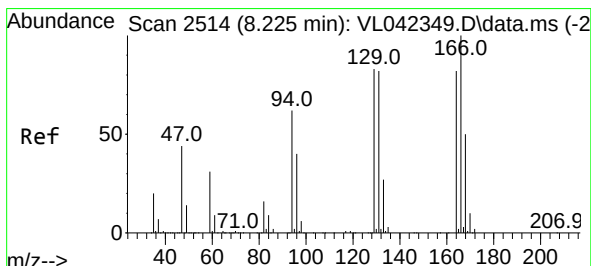
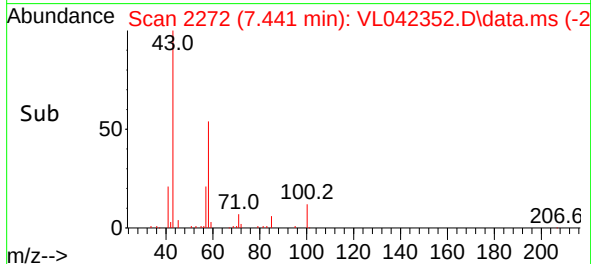
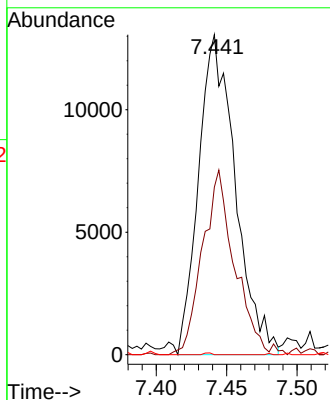
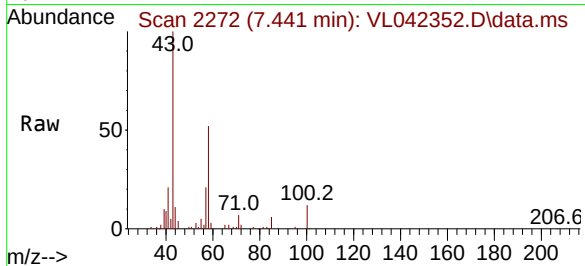




#51
2-Hexanone
Concen: 0.564 ppbv
RT: 7.441 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

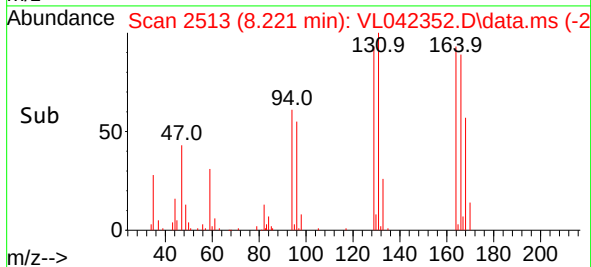
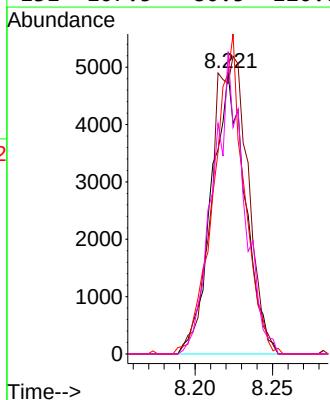
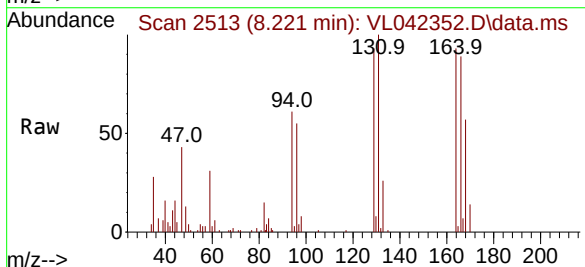
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

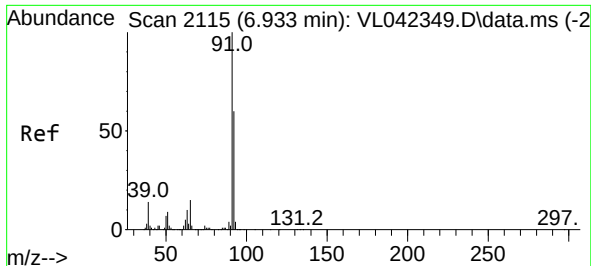
Tgt Ion: 43 Resp: 23684
Ion Ratio Lower Upper
43 100
58 51.7 40.2 60.4
98 0.1 0.1 0.1



#52
Tetrachloroethene
Concen: 0.503 ppbv
RT: 8.221 min Scan# 2513
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 164 Resp: 7412
Ion Ratio Lower Upper
164 100
166 96.1 98.2 147.2#
129 97.8 81.8 122.8
131 107.5 80.5 120.7

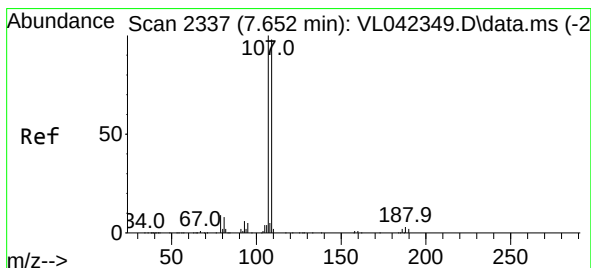
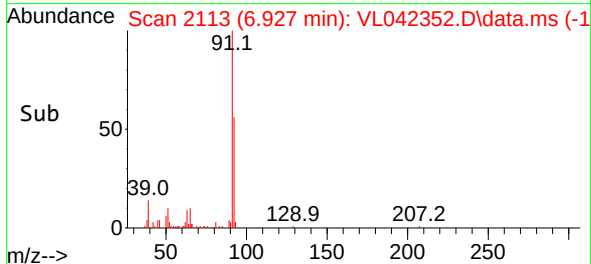
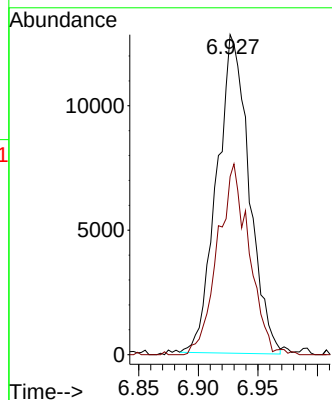
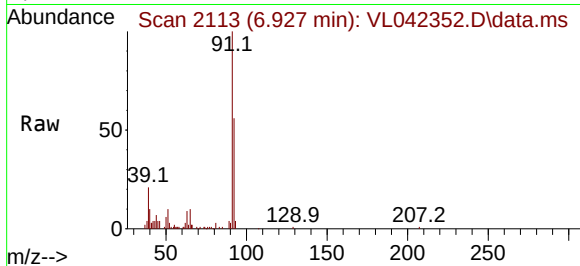




#53
Toluene
Concen: 0.529 ppbv
RT: 6.927 min Scan# 2113
Delta R.T. -0.006 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

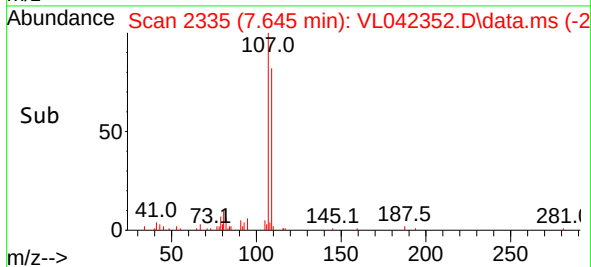
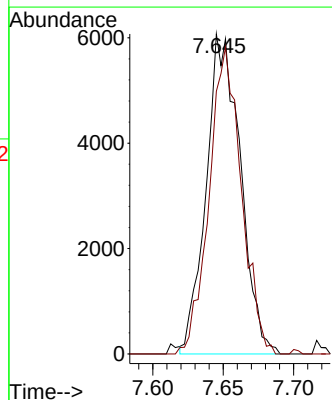
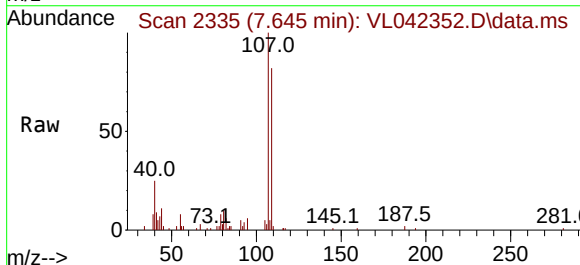
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

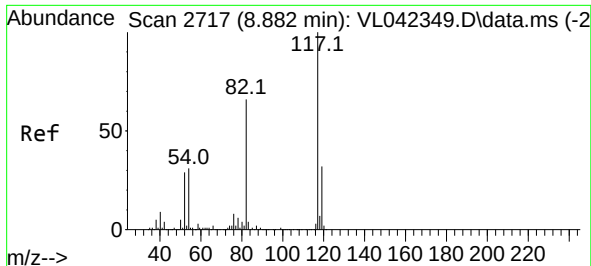
Tgt Ion: 91 Resp: 24200
Ion Ratio Lower Upper
91 100
92 58.4 48.2 72.4



#54
1,2-Dibromoethane
Concen: 0.499 ppbv
RT: 7.645 min Scan# 2335
Delta R.T. -0.006 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 107 Resp: 10282
Ion Ratio Lower Upper
107 100
109 82.1 78.2 117.4

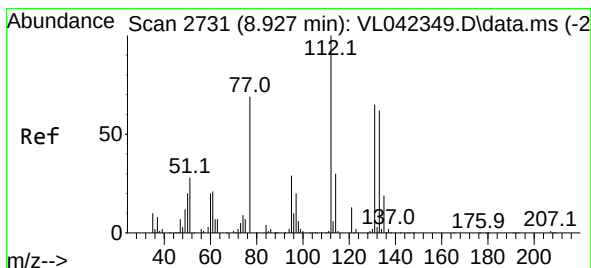
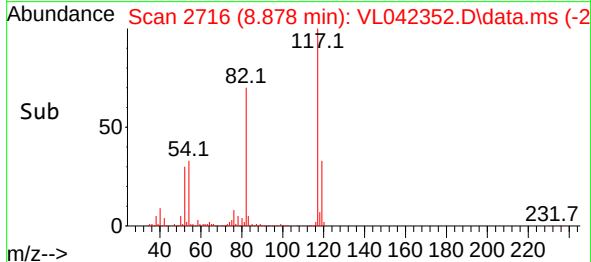
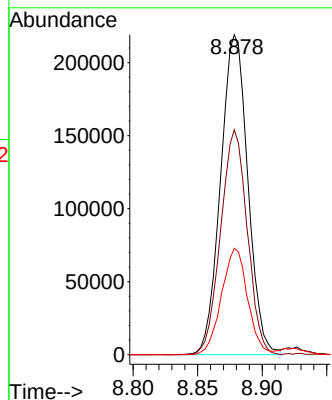
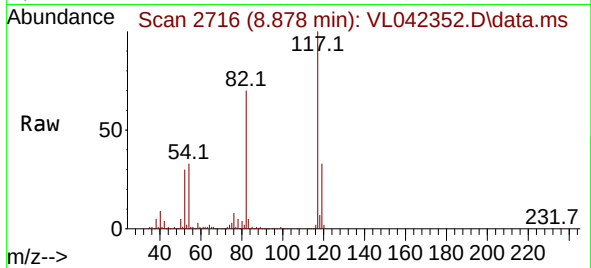




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2117
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

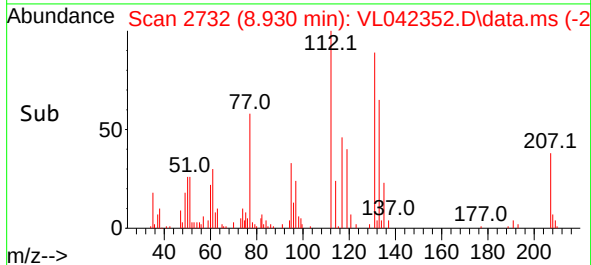
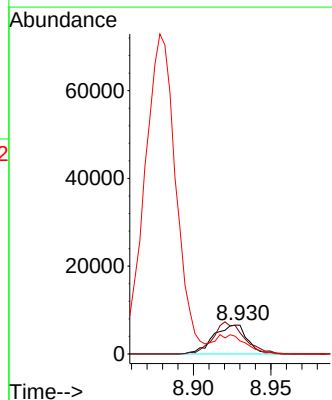
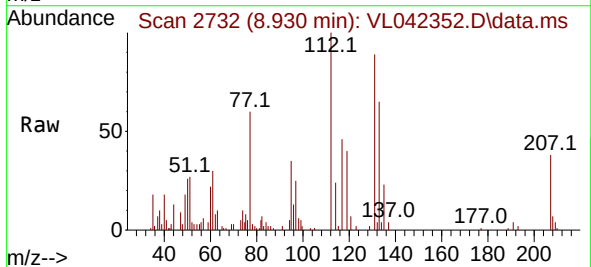
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

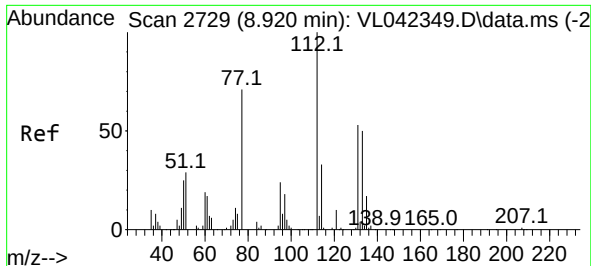
Tgt Ion:117 Resp: 321644
Ion Ratio Lower Upper
117 100
82 69.0 57.8 86.6
119 33.8 25.2 37.8



#56
1,1,1,2-Tetrachloroethane
Concen: 0.513 ppbv
RT: 8.930 min Scan# 2732
Delta R.T. 0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:131 Resp: 9987
Ion Ratio Lower Upper
131 100
133 102.0 78.3 117.5
119 1087.9 48.7 73.1#

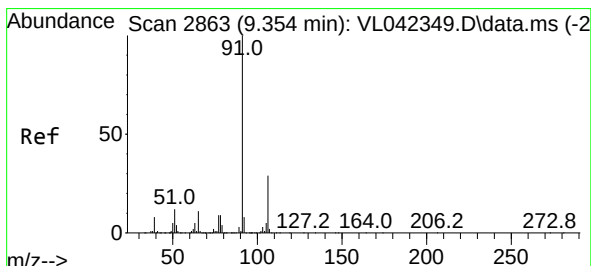
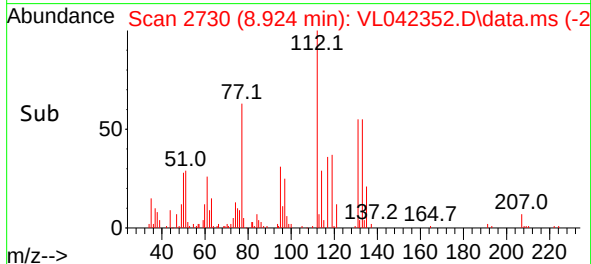
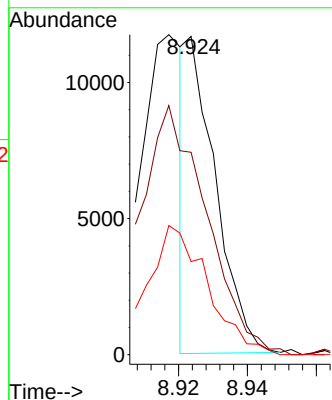
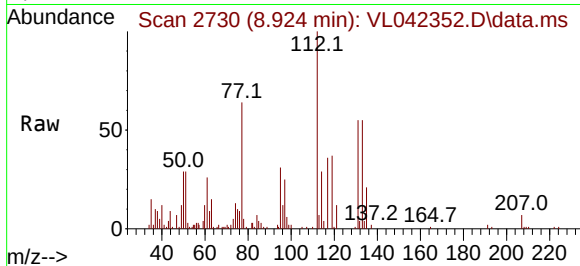




#57
Chlorobenzene
Concen: 0.206 ppbv
RT: 8.924 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

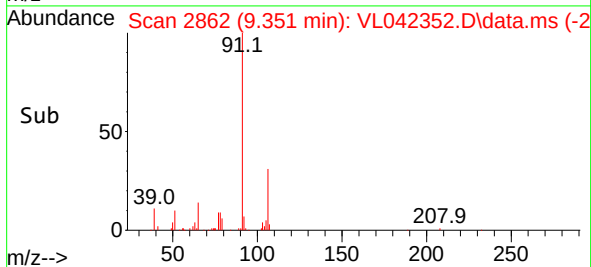
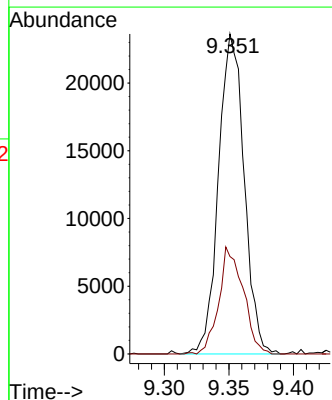
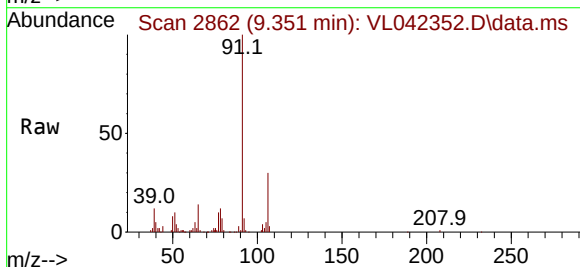
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

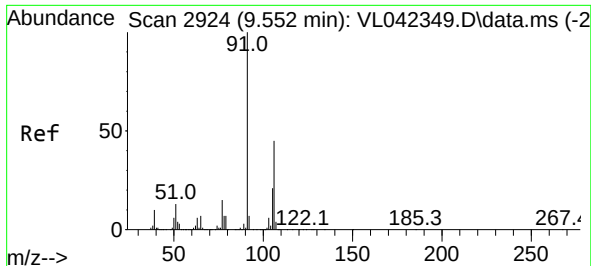
Tgt Ion:	112	Resp:	6884
Ion Ratio	Lower	Upper	
112	100		
77	62.1	57.8	86.6
114	29.5	29.3	35.9



#58
Ethyl Benzene
Concen: 0.512 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:	91	Resp:	32624
Ion Ratio	Lower	Upper	
91	100		
106	30.5	23.0	34.4





#59

m/p-Xylene

Concen: 0.439 ppbv

RT: 9.548 min Scan# 2924

Delta R.T. -0.003 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA_L

ClientSampleId :

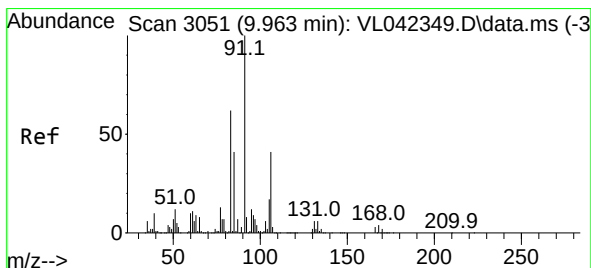
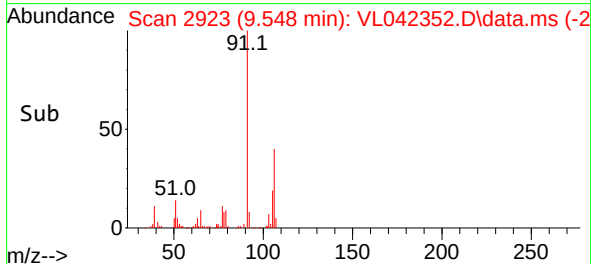
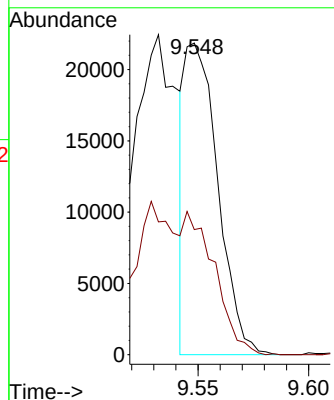
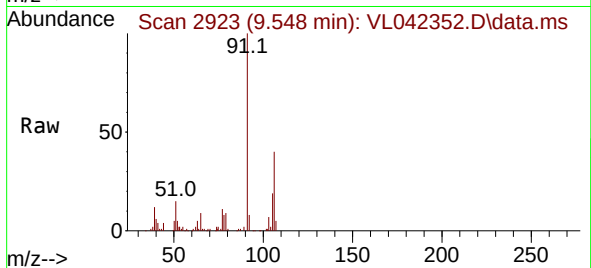
VSTDIC0.5

Tgt Ion: 91 Resp: 22598

Ion Ratio Lower Upper

91 100

106 0.0 35.4 53.2#



#60

o-Xylene

Concen: 0.541 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. -0.000 min

Lab File: VL042352.D

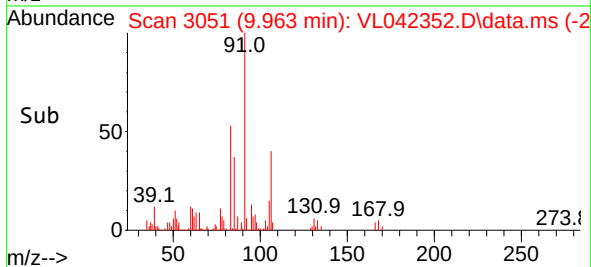
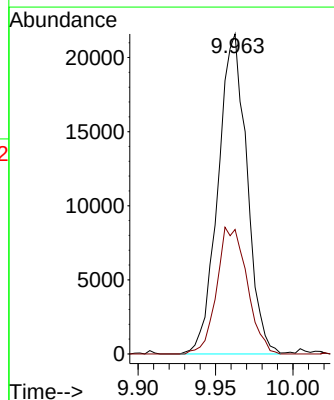
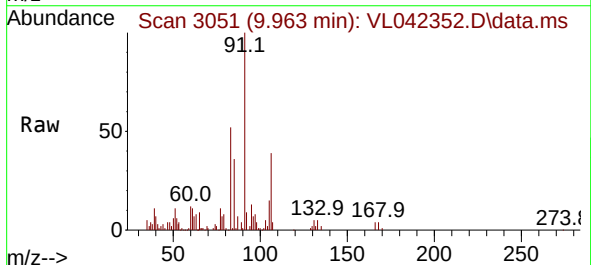
Acq: 17 Apr 2025 11:19

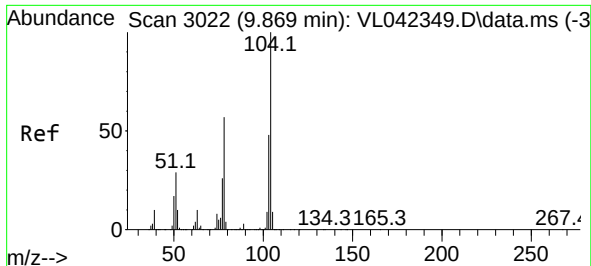
Tgt Ion: 91 Resp: 27983

Ion Ratio Lower Upper

91 100

106 41.6 21.1 63.4

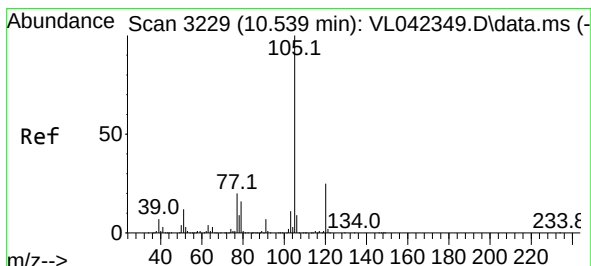
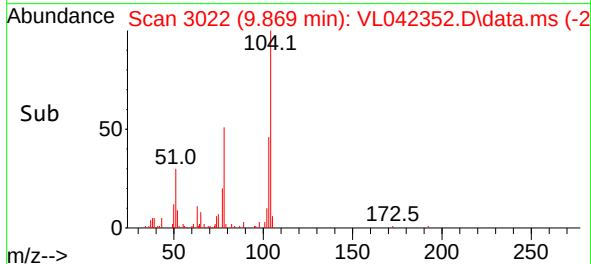
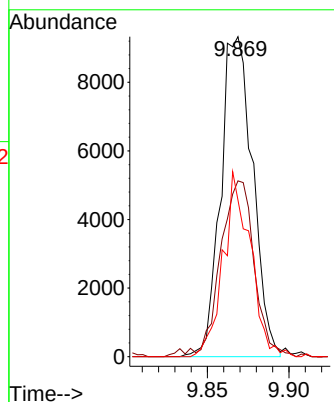
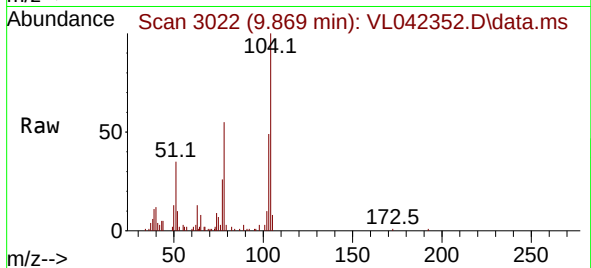




#61
Styrene
Concen: 0.516 ppbv
RT: 9.869 min Scan# 3022
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

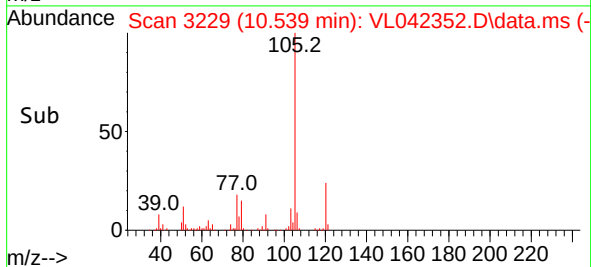
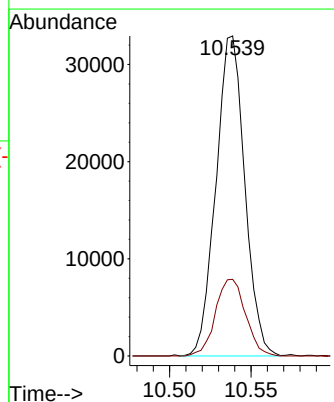
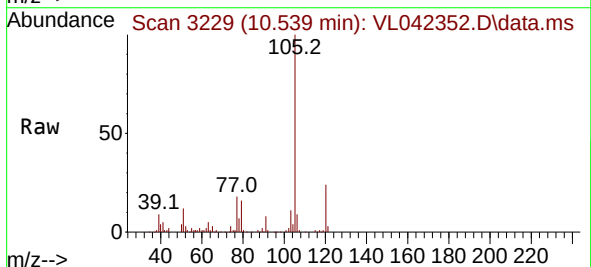
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

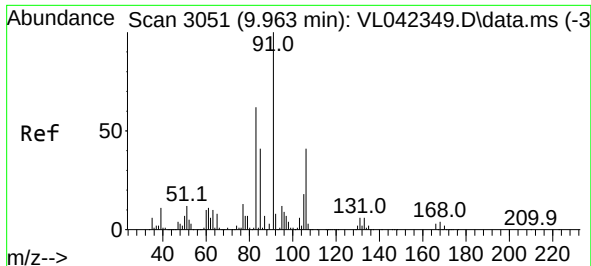
Tgt Ion:104 Resp: 12736
Ion Ratio Lower Upper
104 100
78 58.6 44.6 66.8
103 49.2 37.4 56.0



#62
Isopropylbenzene
Concen: 0.533 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:105 Resp: 40481
Ion Ratio Lower Upper
105 100
120 24.9 19.8 29.8





#63

1,1,2,2-Tetrachloroethane

Concen: 0.474 ppbv

RT: 9.959 min Scan# 3050

Delta R.T. -0.003 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

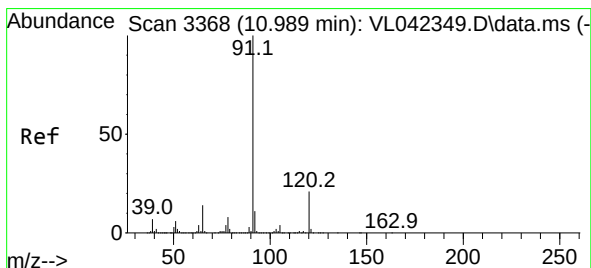
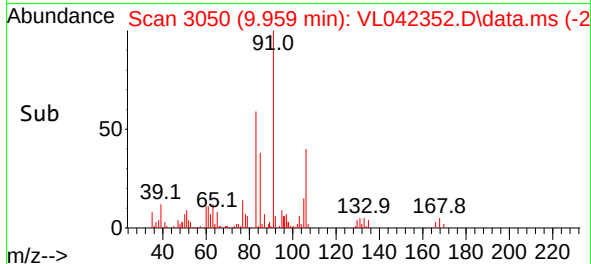
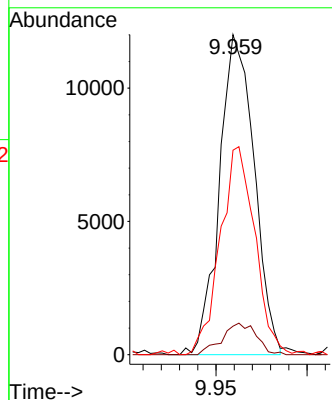
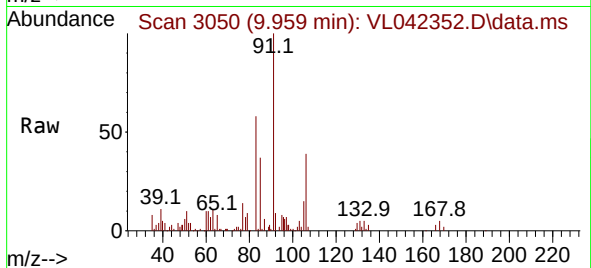
Tgt Ion: 83 Resp: 15920

Ion Ratio Lower Upper

83 100

131 9.8 4.5 13.7

85 65.6 32.4 97.0



#64

n-propylbenzene

Concen: 0.544 ppbv

RT: 10.985 min Scan# 3367

Delta R.T. -0.003 min

Lab File: VL042352.D

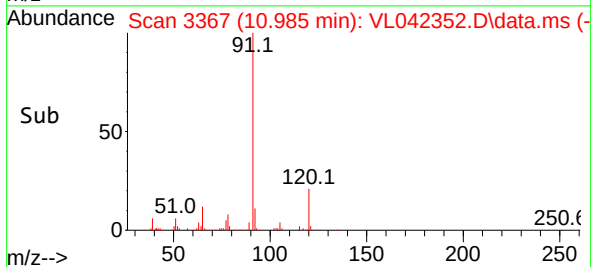
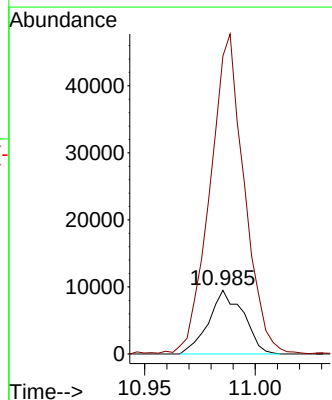
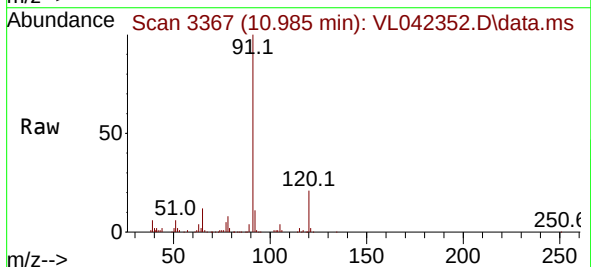
Acq: 17 Apr 2025 11:19

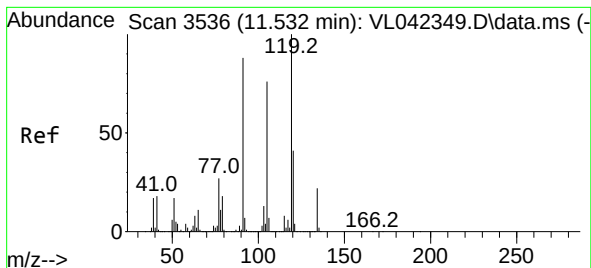
Tgt Ion: 120 Resp: 10369

Ion Ratio Lower Upper

120 100

91 499.6 392.4 588.6





#65

tert-Butylbenzene

Concen: 0.535 ppbv

RT: 11.529 min Scan# 3535

Delta R.T. -0.003 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.5

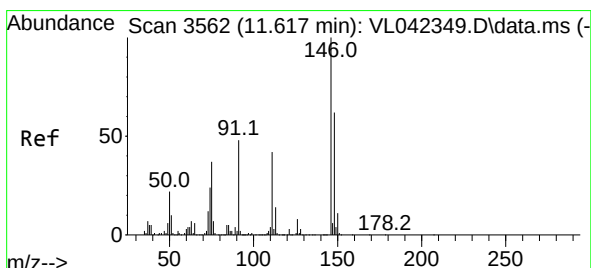
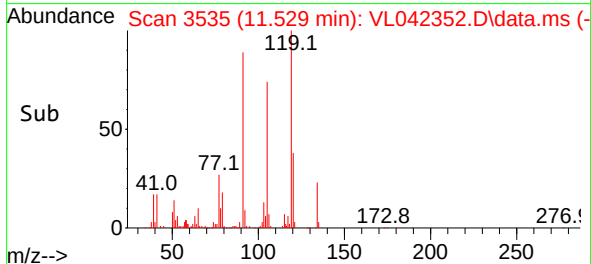
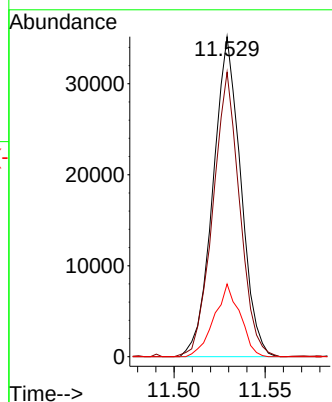
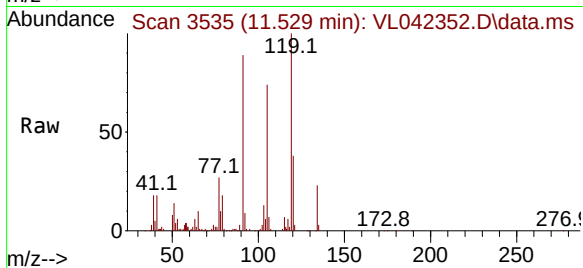
Tgt Ion:119 Resp: 37294

Ion Ratio Lower Upper

119 100

91 85.8 74.6 111.8

134 21.1 18.8 28.2



#66

Benzyl Chloride

Concen: 0.506 ppbv

RT: 11.613 min Scan# 3561

Delta R.T. -0.003 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

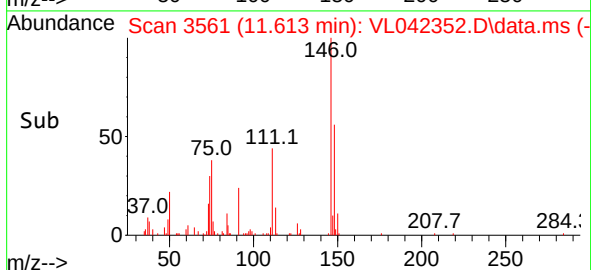
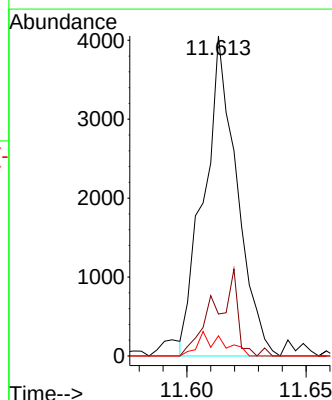
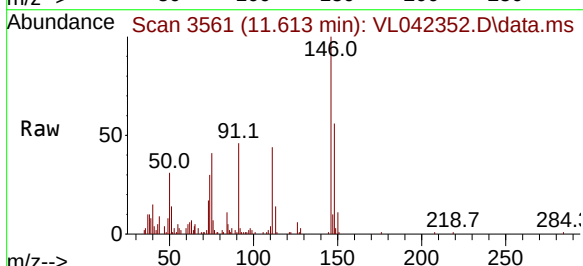
Tgt Ion: 91 Resp: 3878

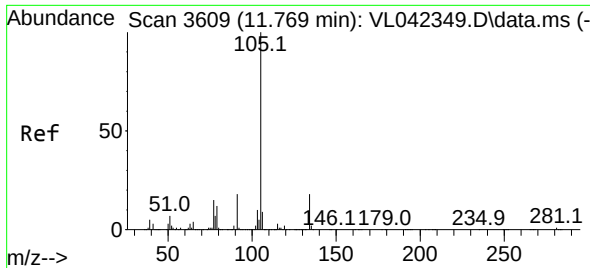
Ion Ratio Lower Upper

91 100

126 19.8 11.8 17.6#

128 5.8 4.5 6.7

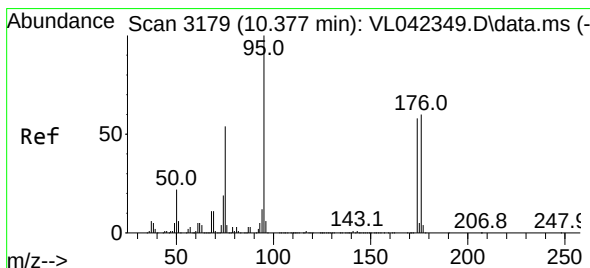
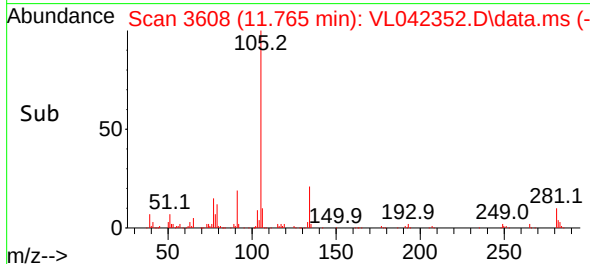
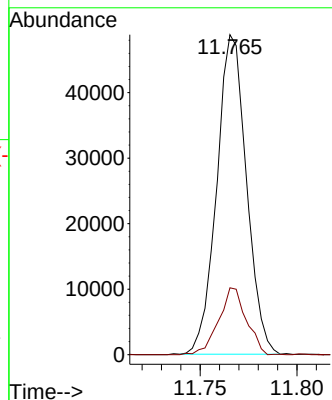
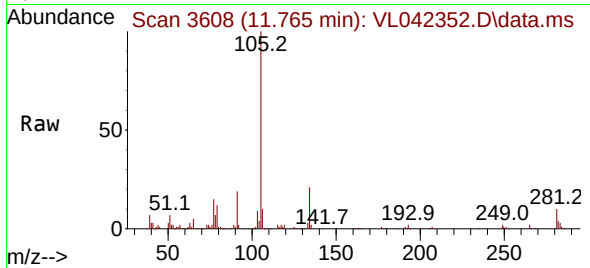




#67
 sec-Butylbenzene
 Concen: 0.537 ppbv
 RT: 11.765 min Scan# 3108
 Delta R.T. -0.003 min
 Lab File: VL042352.D
 Acq: 17 Apr 2025 11:19

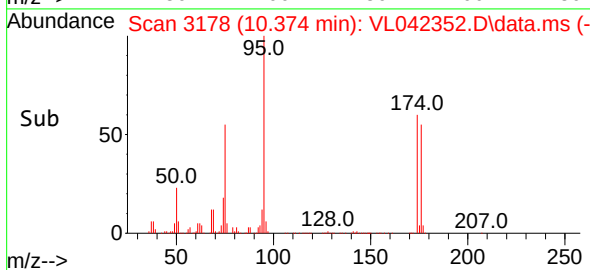
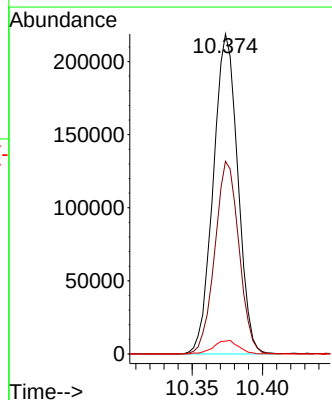
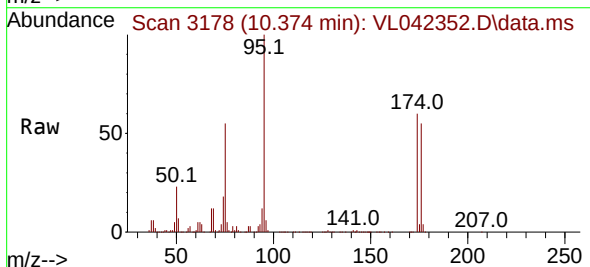
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

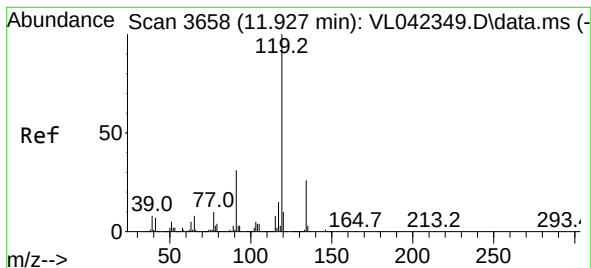
Tgt Ion:105 Resp: 52139
 Ion Ratio Lower Upper
 105 100
 134 19.5 14.6 21.8



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.032 ppbv
 RT: 10.374 min Scan# 3178
 Delta R.T. -0.003 min
 Lab File: VL042352.D
 Acq: 17 Apr 2025 11:19

Tgt Ion: 95 Resp: 265161
 Ion Ratio Lower Upper
 95 100
 174 59.4 48.5 72.7
 175 4.3 3.7 5.5

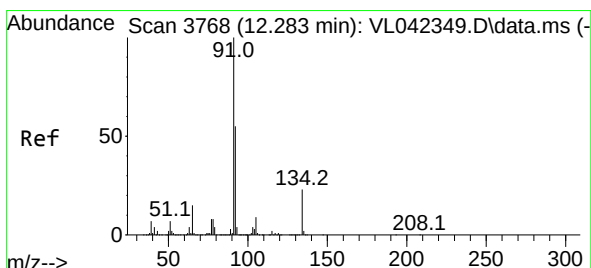
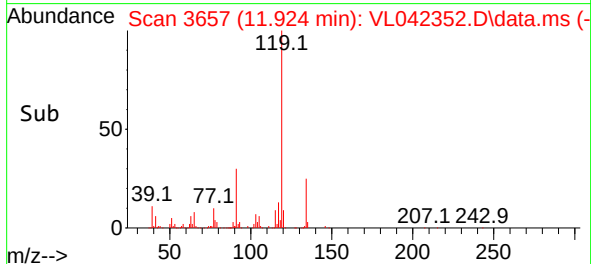
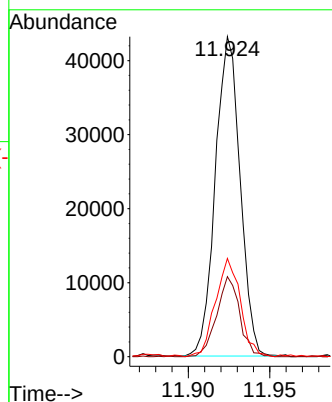
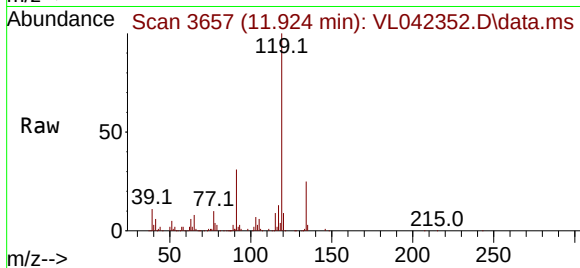




#69
p-Isopropyltoluene
Concen: 0.541 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

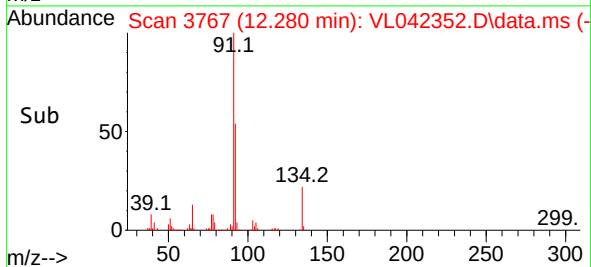
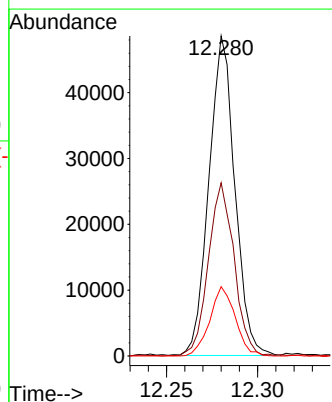
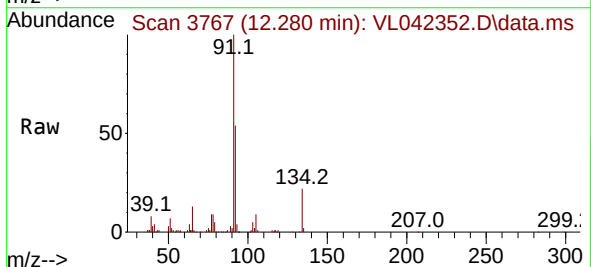
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

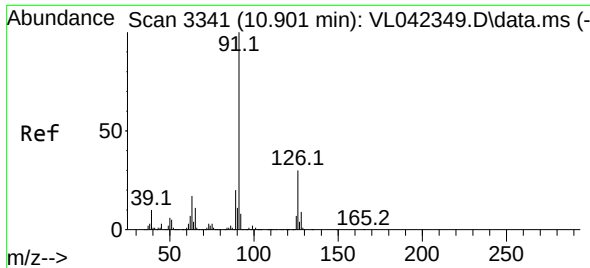
Tgt Ion: 119 Resp: 45574
Ion Ratio Lower Upper
119 100
134 23.3 20.0 30.0
91 31.4 24.4 36.6



#70
n-Butylbenzene
Concen: 0.547 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 91 Resp: 48004
Ion Ratio Lower Upper
91 100
92 54.7 44.2 66.4
134 21.4 18.2 27.4

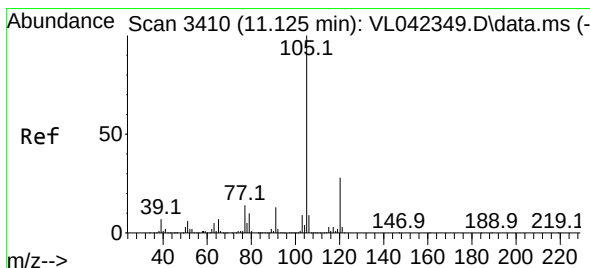
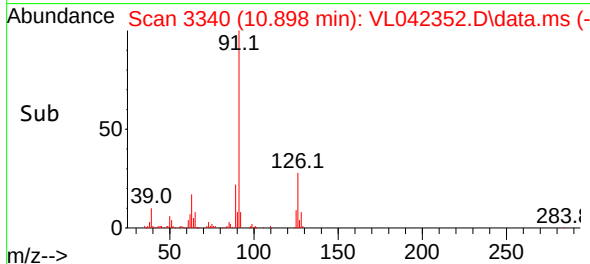
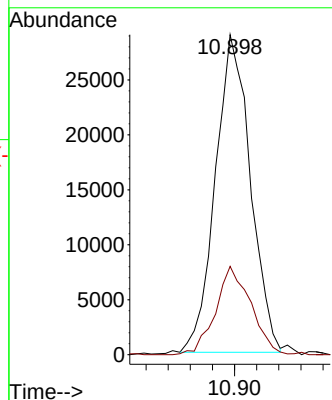
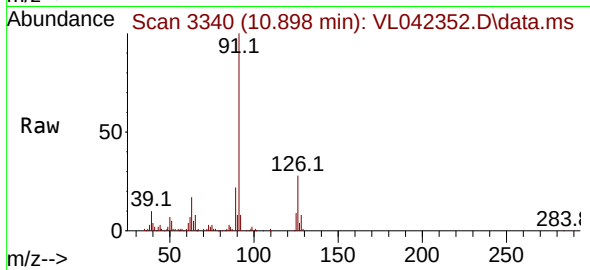




#71
2-Chlorotoluene
Concen: 0.533 ppbv
RT: 10.898 min Scan# 31709
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

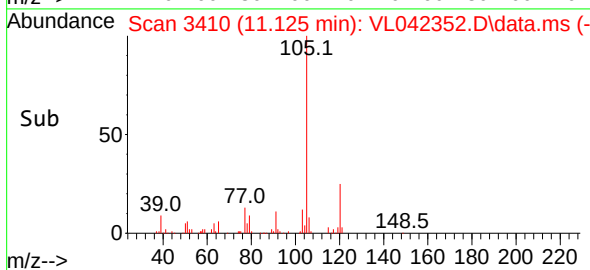
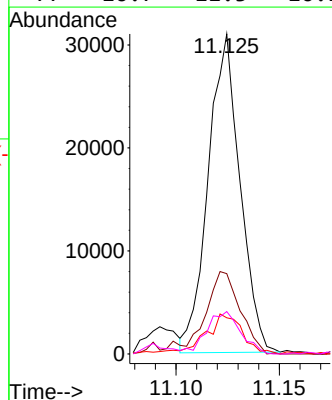
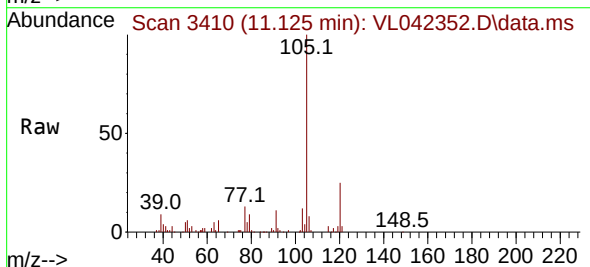
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

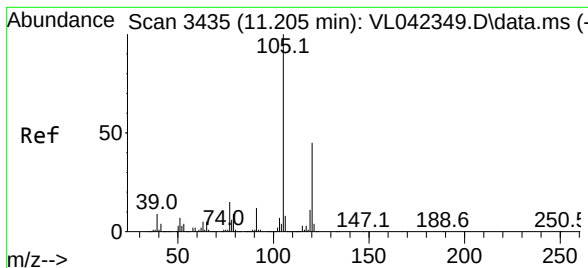
Tgt Ion: 91 Resp: 31709
Ion Ratio Lower Upper
91 100
126 28.3 11.4 45.4



#72
4-Ethyltoluene
Concen: 0.523 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion: 105 Resp: 33048
Ion Ratio Lower Upper
105 100
120 30.5 23.2 34.8
91 15.7 10.4 15.6#
77 16.7 11.3 16.9





#73

1,3,5-Trimethylbenzene

Concen: 0.546 ppbv

RT: 11.202 min Scan# 3435

Delta R.T. -0.003 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA_1

ClientSampleId :

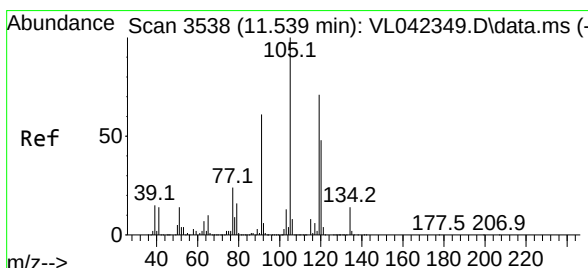
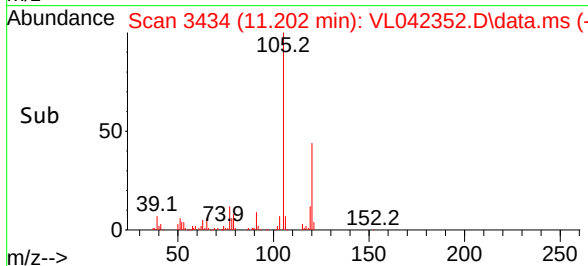
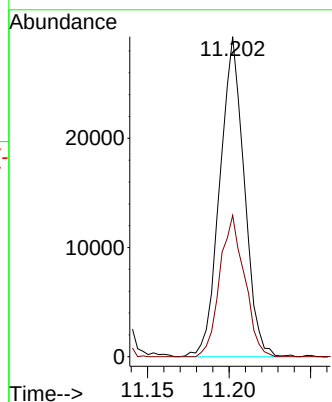
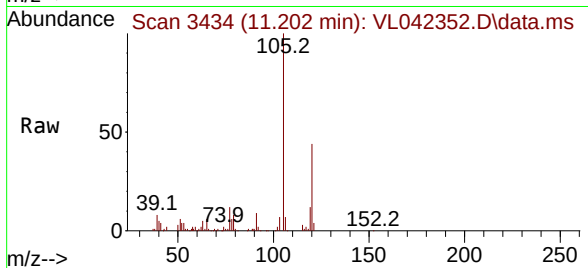
VSTDIC0.5

Tgt Ion:105 Resp: 30464

Ion Ratio Lower Upper

105 100

120 44.1 35.6 53.4



#74

1,2,4-Trimethylbenzene

Concen: 0.579 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. -0.003 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Tgt Ion:105 Resp: 37765

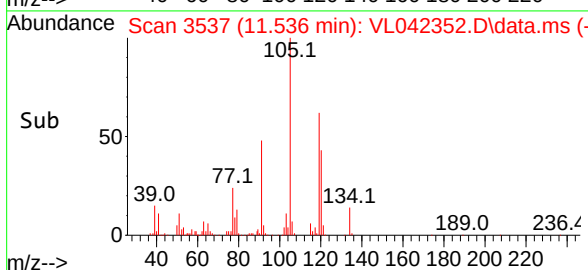
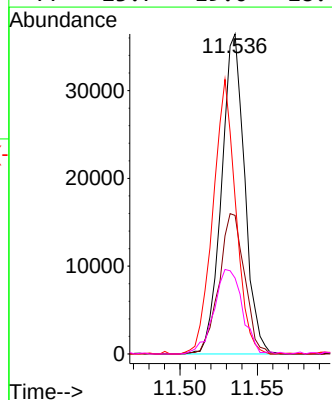
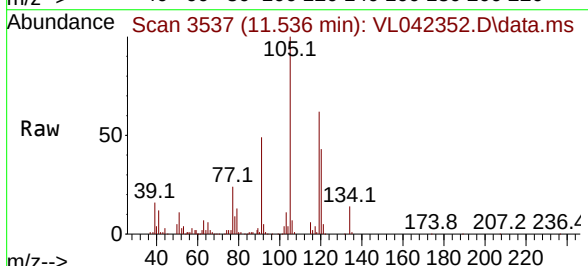
Ion Ratio Lower Upper

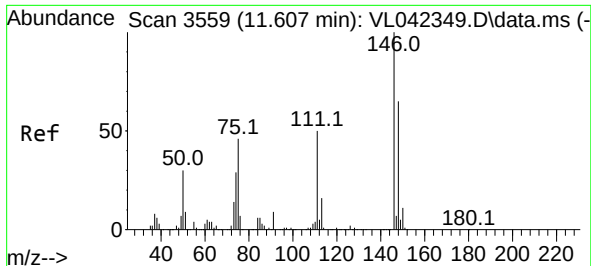
105 100

120 43.3 38.1 57.1

91 48.7 48.8 73.2#

77 23.7 19.0 28.4

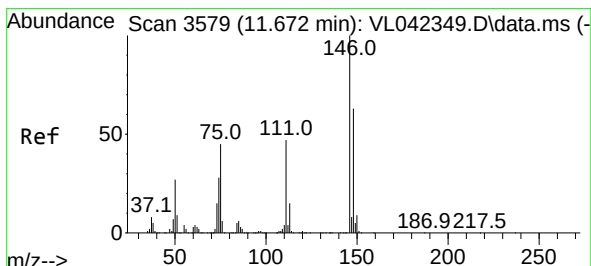
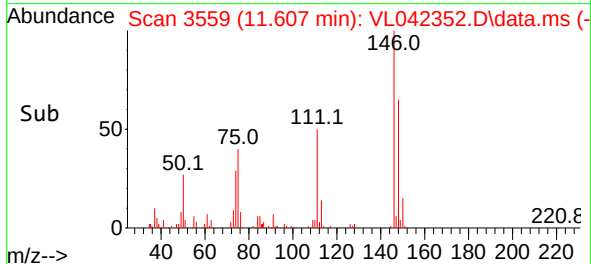
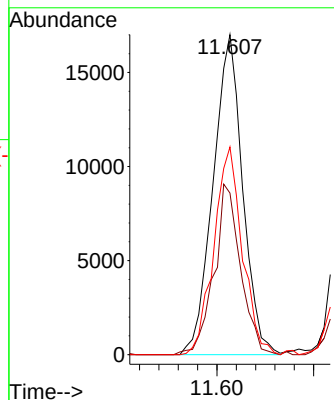
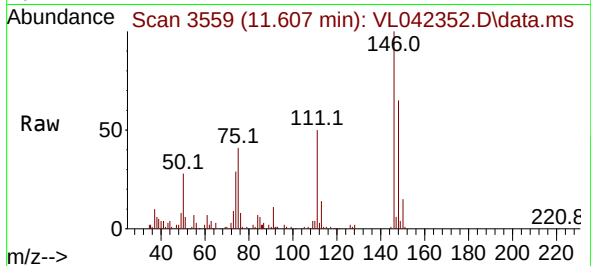




#75
1,3-Dichlorobenzene
Concen: 0.531 ppbv
RT: 11.607 min Scan# 3559
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

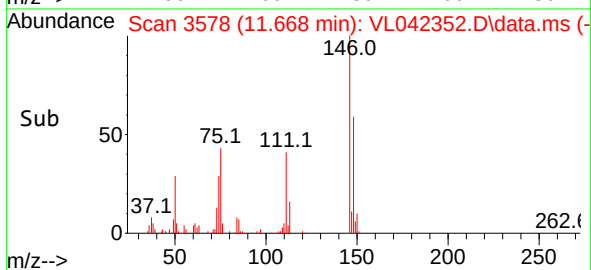
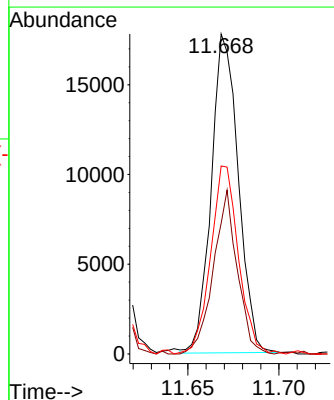
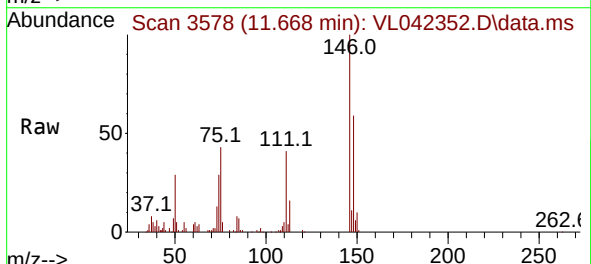
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

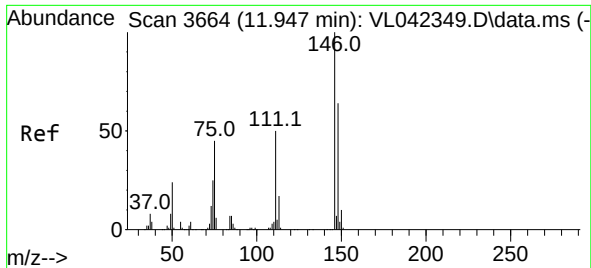
Tgt Ion:146 Resp: 18003
Ion Ratio Lower Upper
146 100
111 47.9 24.3 72.8
148 62.9 31.6 94.8



#76
1,4-Dichlorobenzene
Concen: 0.537 ppbv
RT: 11.668 min Scan# 3578
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:146 Resp: 18300
Ion Ratio Lower Upper
146 100
111 45.9 24.2 72.6
148 61.2 32.1 96.5

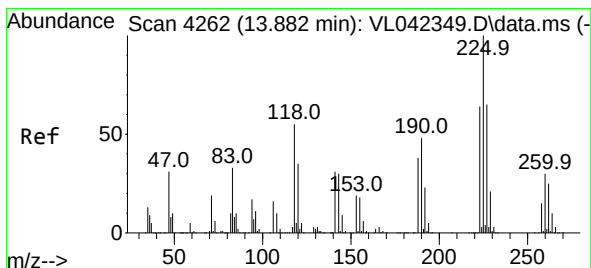
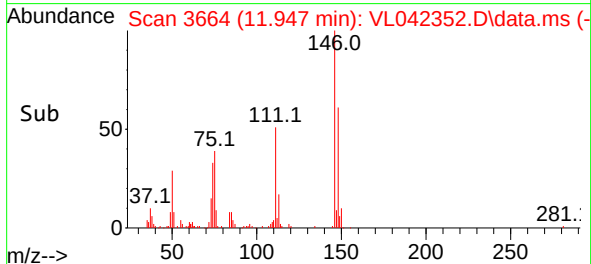
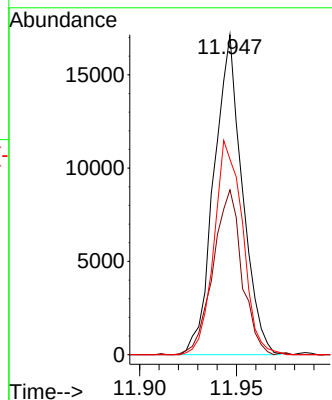
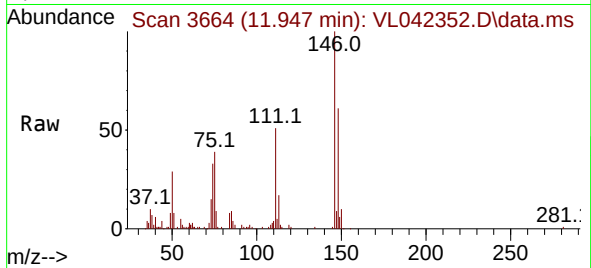




#77
1,2-Dichlorobenzene
Concen: 0.530 ppbv
RT: 11.947 min Scan# 30
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

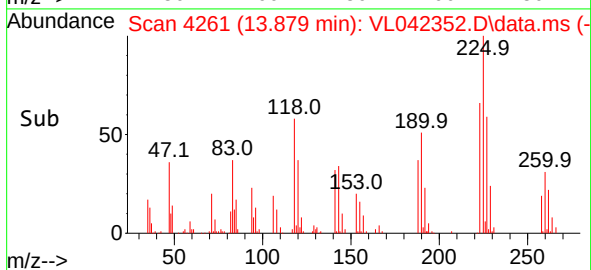
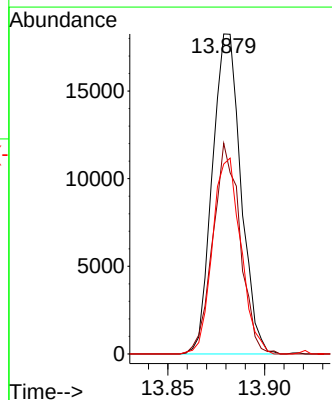
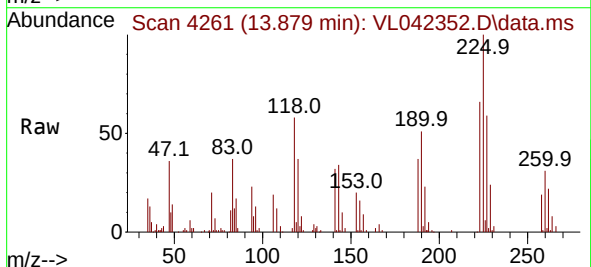
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

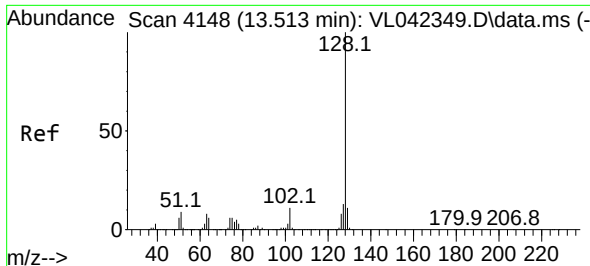
Tgt Ion:146 Resp: 17446
Ion Ratio Lower Upper
146 100
111 52.6 25.3 75.9
148 67.5 31.5 94.5



#78
Hexachloro-1,3-Butadiene
Concen: 0.562 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:225 Resp: 18705
Ion Ratio Lower Upper
225 100
223 62.8 50.3 75.5
227 61.1 51.5 77.3

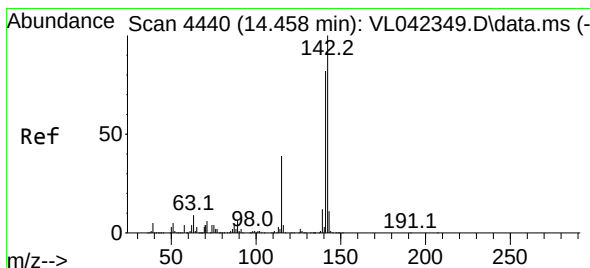
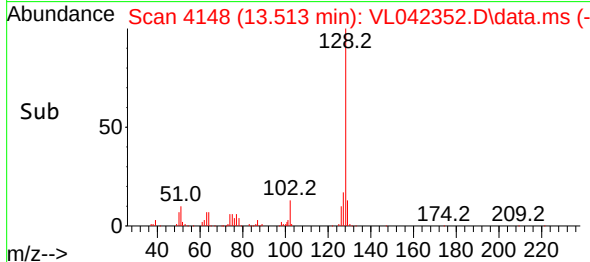
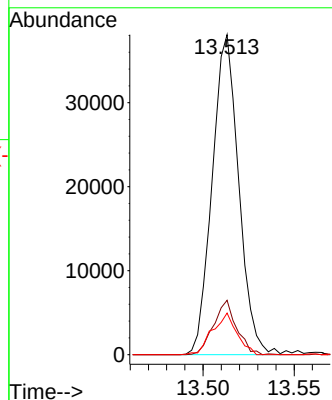
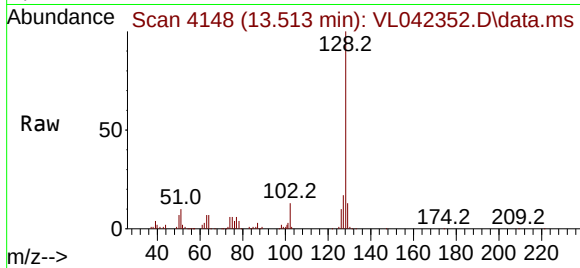




#79
Naphthalene
Concen: 0.494 ppbv
RT: 13.513 min Scan# 4148
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

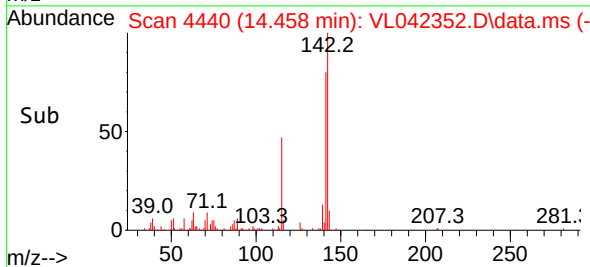
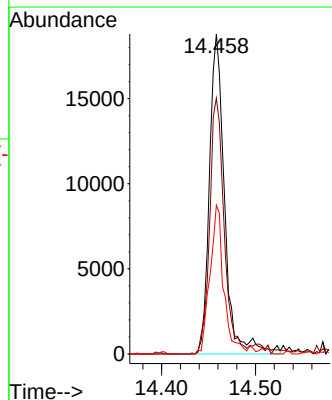
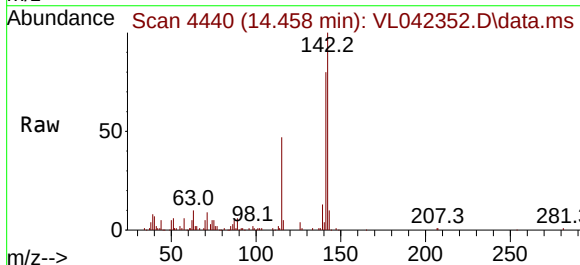
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

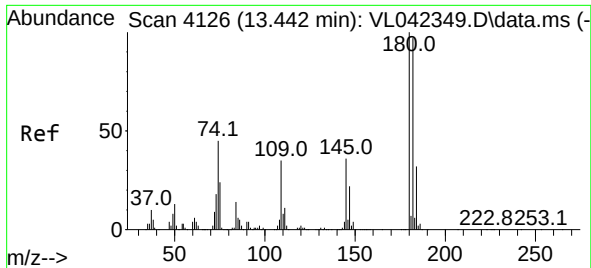
Tgt Ion:128 Resp: 38521
Ion Ratio Lower Upper
128 100
127 17.0 10.6 15.8#
129 13.0 8.6 12.8#



#80
Naphthalene,2-methyl-
Concen: 0.475 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Tgt Ion:142 Resp: 21076
Ion Ratio Lower Upper
142 100
141 79.2 66.8 100.2
115 44.1 33.4 50.2





#81

1,2,4-Trichlorobenzene

Concen: 0.493 ppbv

RT: 13.442 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL042352.D

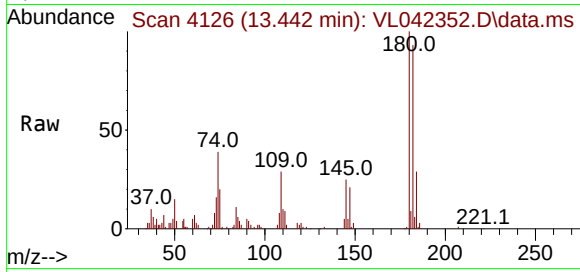
Acq: 17 Apr 2025 11:19

Instrument :

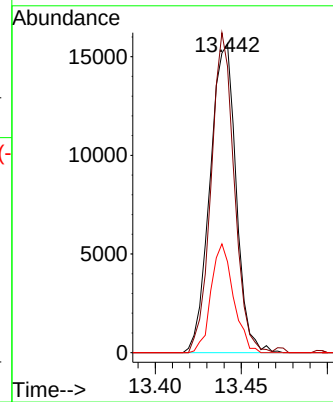
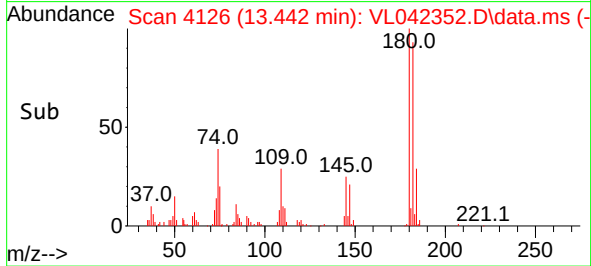
MSVOA_L

ClientSampleId :

VSTDICC0.5



Tgt Ion:	180	Resp:	16504
Ion	Ratio	Lower	Upper
180	100		
182	92.4	76.8	115.2
184	30.2	24.6	36.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042353.D
 Acq On : 17 Apr 2025 11:50
 Operator : SY/MD
 Sample : VSTDICC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.1

Quant Time: Apr 18 01:29:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 01:24:29 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.791	49	119461	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	350484	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	315004	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.381	95	256417	9.906	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.100%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.499	85	2857	0.135	ppbv	98
3) Chlorodifluoromethane	1.477	51	2706	0.135	ppbv #	91
4) Chloromethane	1.535	50	1225	0.147	ppbv #	85
5) Vinyl Chloride	1.580	62	1088	0.120	ppbv #	74
6) Bromomethane	1.668	94	663	0.168	ppbv #	72
7) Chloroethane	1.703	64	579	0.176	ppbv #	78
8) Dichlorotetrafluoroethane	1.557	85	2377	0.131	ppbv	94
9) Propene	1.435	41	314	0.034	ppbv	90
10) Heptane	4.988	43	1056	0.043	ppbv #	1
12) 1,1,2-Trichlorotrifluo...	2.140	101	2017	0.123	ppbv	94
13) Ethanol	1.891	45	1958	2.618	ppbv #	24
14) Bromoethene	1.781	108	1015	0.164	ppbv #	77
15) Acetone	1.839	43	4783	0.245	ppbv #	82
16) 1,3-Butadiene	1.609	39	1776	0.193	ppbv #	46
17) tert-Butyl alcohol	2.049	59	3130	0.129	ppbv #	6
18) 1,1-Dichloroethene	2.037	96	1074	0.136	ppbv	85
19) Isopropyl Alcohol	1.891	45	1958	0.180	ppbv	90
20) Methylene Chloride	2.066	84	2741	0.358	ppbv #	74
21) Allyl Chloride	2.098	41	2786	0.206	ppbv #	72
22) trans-1,2-Dichloroethene	2.347	96	1201	0.138	ppbv #	60
23) Vinyl Acetate	2.457	43	326	0.041	ppbv #	77
24) 1,1-Dichloroethane	2.412	63	2169	0.131	ppbv #	78
26) Hexane	2.833	57	3260	0.167	ppbv #	1
27) Carbon Disulfide	2.150	76	2396	0.115	ppbv #	1
28) Methyl tert-Butyl Ether	2.448	73	1460	0.114	ppbv #	1
29) Chloroform	2.849	83	3542	0.128	ppbv	100
30) Cyclohexane	3.859	84	1037	0.066	ppbv #	1
32) 1,1,1-Trichloroethane	3.373	97	1734	0.059	ppbv #	20
34) 2-Butanone	2.564	43	3506	0.126	ppbv #	79
35) Carbon Tetrachloride	3.771	117	3204	0.101	ppbv #	94
36) Benzene	3.665	78	4424	0.117	ppbv	97
37) 1,2-Dichloroethane	3.224	62	2523	0.111	ppbv #	81
38) Trichloroethene	4.551	130	1113	0.067	ppbv #	63
39) 1,2-Dichloropropane	4.315	63	1007	0.071	ppbv	96
40) 1,4-Dioxane	4.616	88	431	0.056	ppbv #	1
42) Bromodichloromethane	4.496	83	2443	0.077	ppbv #	89
43) Methyl Methacrylate	4.894	69	1683	0.099	ppbv #	60
44) 2,2,4-Trimethylpentane	4.648	57	2115	0.032	ppbv #	42
45) t-1,3-Dichloropropene	6.429	75	748	0.043	ppbv	98
46) cis-1,3-Dichloropropene	5.610	75	1032	0.048	ppbv	90
47) 1,1,2-Trichloroethane	6.584	97	540	0.038	ppbv #	39
48) Dibromochloromethane	7.393	129	1149	0.045	ppbv #	1
49) Bromoform	9.484	173	1973	0.089	ppbv #	86

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042353.D
 Acq On : 17 Apr 2025 11:50
 Operator : SY/MD
 Sample : VSTDIC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

Quant Time: Apr 18 01:29:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 01:24:29 2025
 Response via : Initial Calibration

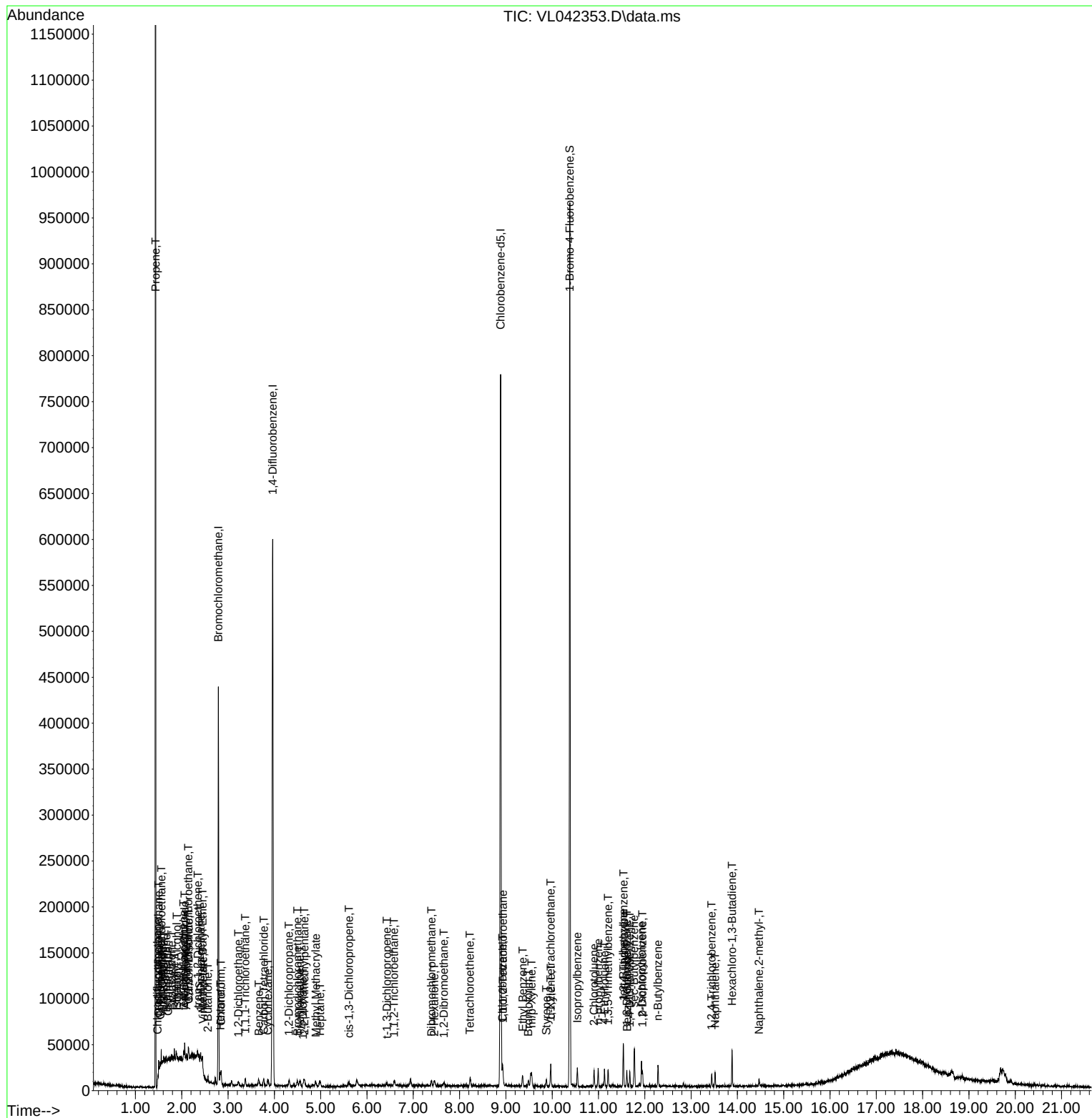
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
51) 2-Hexanone	7.455	43	4915	0.118	ppbv	#	99
52) Tetrachloroethene	8.222	164	957	0.065	ppbv		88
54) 1,2-Dibromoethane	7.662	107	1470	0.072	ppbv	#	75
56) 1,1,1,2-Tetrachloroethane	8.934	131	2031	0.107	ppbv	#	47
57) Chlorobenzene	8.924	112	3842	0.117	ppbv	#	76
58) Ethyl Benzene	9.361	91	3105	0.050	ppbv		95
59) m/p-Xylene	9.552	91	4844	0.096	ppbv	#	32
60) o-Xylene	9.970	91	5359	0.106	ppbv		91
61) Styrene	9.872	104	1549	0.064	ppbv	#	26
62) Isopropylbenzene	10.542	105	8285	0.111	ppbv		97
63) 1,1,2,2-Tetrachloroethane	9.966	83	3646	0.111	ppbv		97
64) n-propylbenzene	10.996	120	2186	0.117	ppbv		93
65) tert-Butylbenzene	11.536	119	8656	0.127	ppbv		85
66) Benzyl Chloride	11.617	91	414	0.055	ppbv	#	81
67) sec-Butylbenzene	11.769	105	11126	0.117	ppbv		96
69) p-Isopropyltoluene	11.928	119	9534	0.115	ppbv		98
70) n-Butylbenzene	12.284	91	8684	0.101	ppbv		96
71) 2-Chlorotoluene	10.905	91	6703	0.115	ppbv		99
72) 4-Ethyltoluene	11.128	105	6463	0.104	ppbv	#	80
73) 1,3,5-Trimethylbenzene	11.206	105	6797	0.124	ppbv		96
74) 1,2,4-Trimethylbenzene	11.539	105	8745	0.137	ppbv	#	81
75) 1,3-Dichlorobenzene	11.610	146	3258	0.098	ppbv		85
76) 1,4-Dichlorobenzene	11.678	146	3366	0.101	ppbv		92
77) 1,2-Dichlorobenzene	11.950	146	3996	0.124	ppbv		93
78) Hexachloro-1,3-Butadiene	13.883	225	4030	0.124	ppbv		97
79) Naphthalene	13.517	128	7664	0.100	ppbv	#	92
80) Naphthalene,2-methyl-	14.468	142	3339	0.077	ppbv	#	92
81) 1,2,4-Trichlorobenzene	13.442	180	2245	0.069	ppbv	#	95

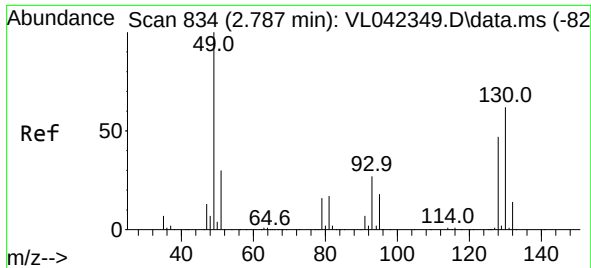
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042353.D
Acq On : 17 Apr 2025 11:50
Operator : SY/MD
Sample : VSTDIC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

Quant Time: Apr 18 01:29:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

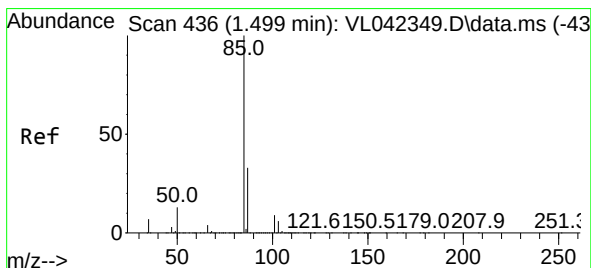
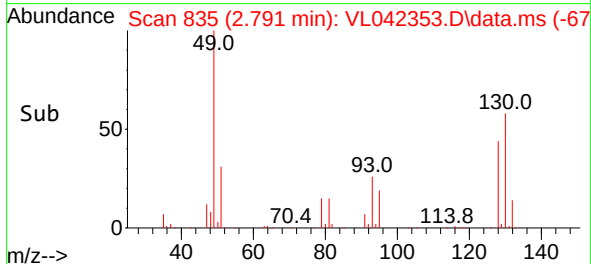
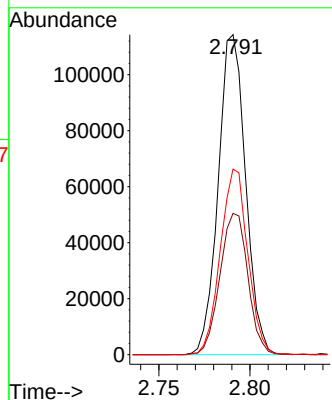
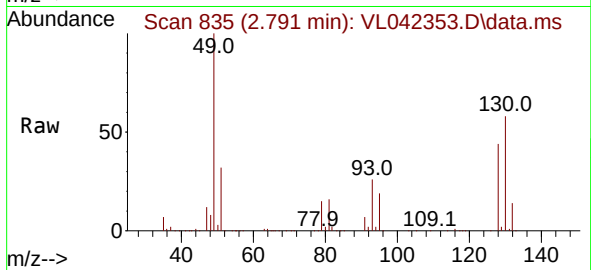




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.791 min Scan# 81
 Delta R.T. 0.004 min
 Lab File: VL042353.D
 Acq: 17 Apr 2025 11:50

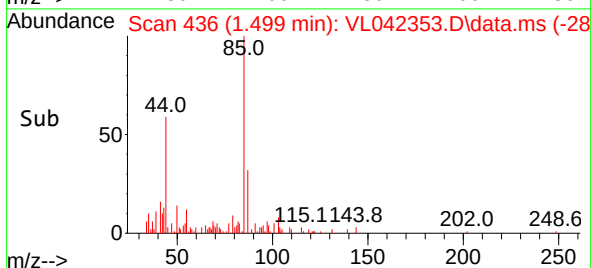
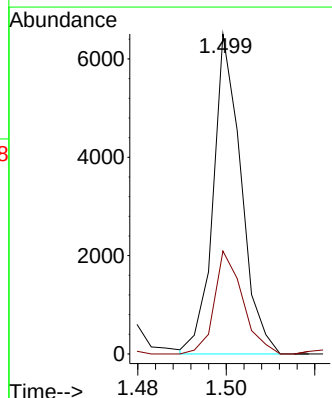
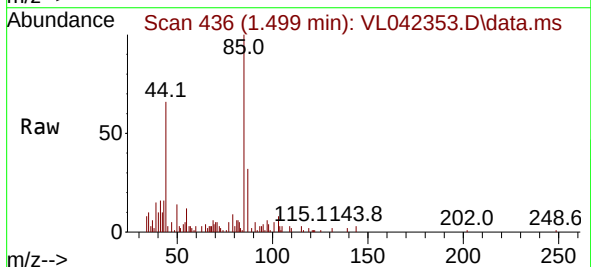
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

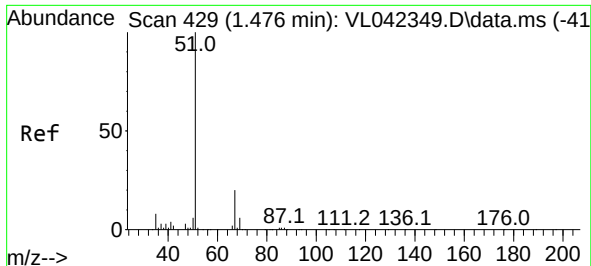
Tgt Ion: 49 Resp: 119461
 Ion Ratio Lower Upper
 49 100
 128 45.3 22.8 68.4
 130 58.3 29.3 88.0



#2
 Dichlorodifluoromethane
 Concen: 0.135 ppbv
 RT: 1.499 min Scan# 436
 Delta R.T. 0.000 min
 Lab File: VL042353.D
 Acq: 17 Apr 2025 11:50

Tgt Ion: 85 Resp: 2857
 Ion Ratio Lower Upper
 85 100
 87 32.2 26.6 39.8

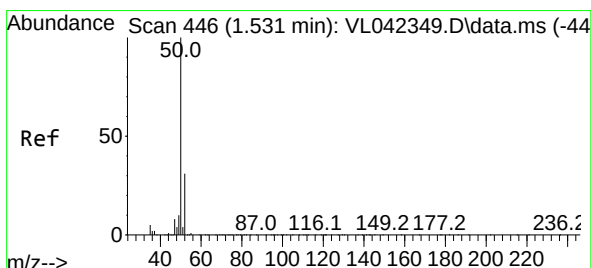
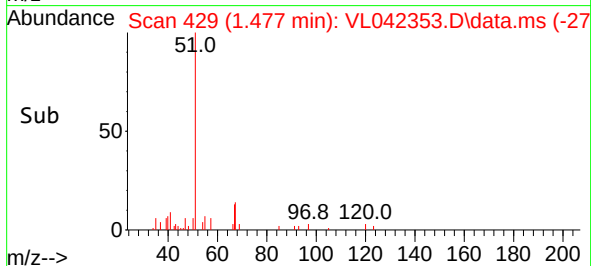
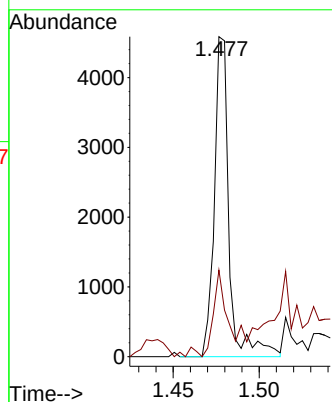
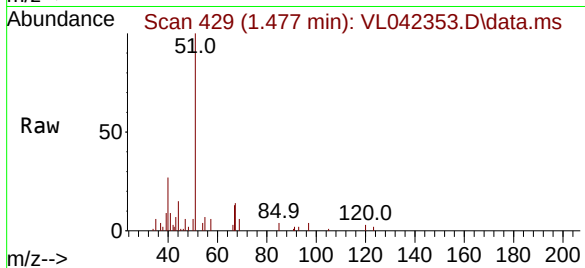




#3
Chlorodifluoromethane
Concen: 0.135 ppbv
RT: 1.477 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

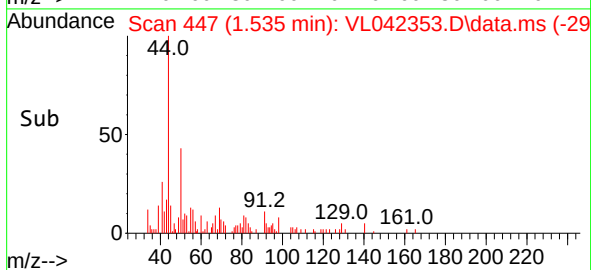
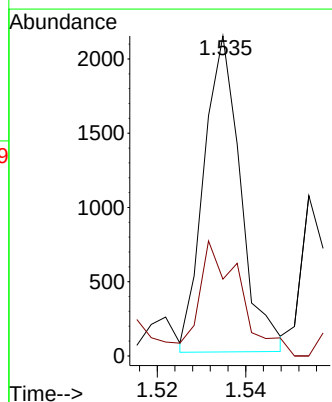
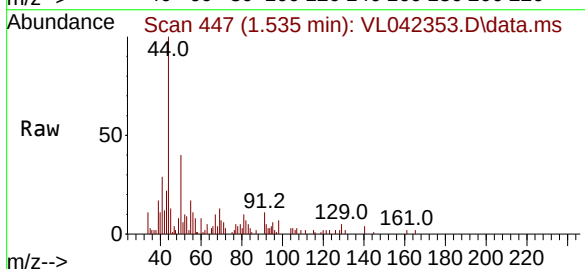
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

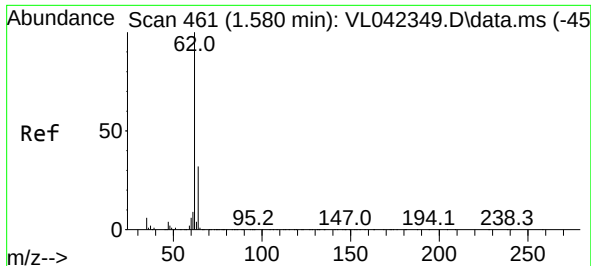
Tgt Ion: 51 Resp: 2706
Ion Ratio Lower Upper
51 100
67 24.5 16.2 24.4#



#4
Chloromethane
Concen: 0.147 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 50 Resp: 1225
Ion Ratio Lower Upper
50 100
52 22.9 24.7 37.1#

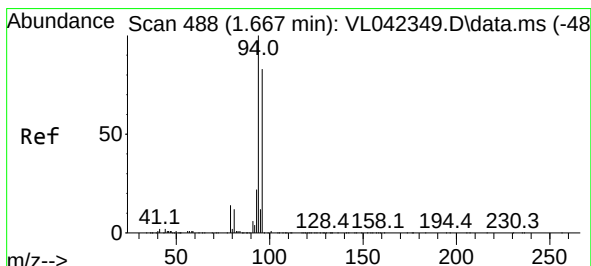
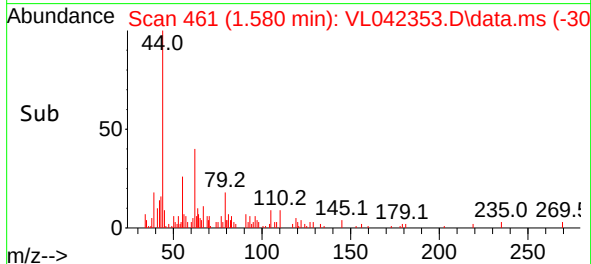
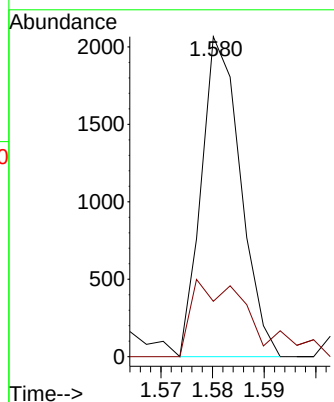
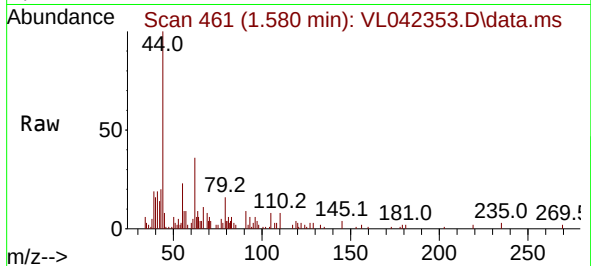




#5
 Vinyl Chloride
 Concen: 0.120 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. 0.000 min
 Lab File: VL042353.D
 Acq: 17 Apr 2025 11:50

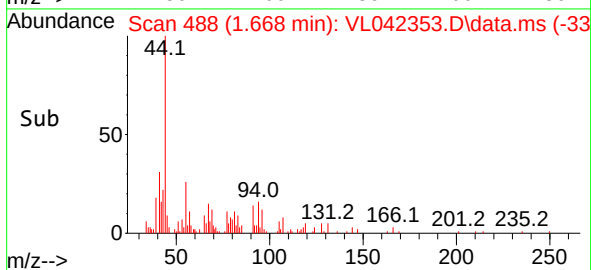
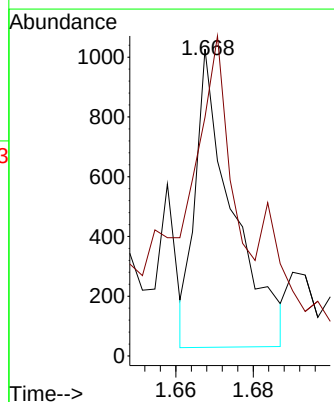
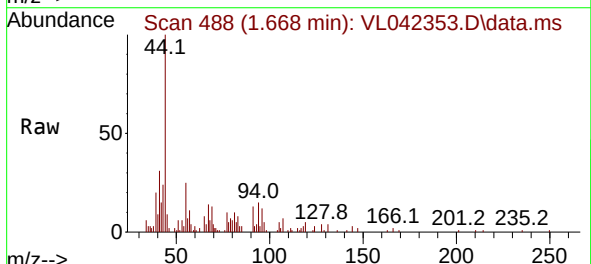
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

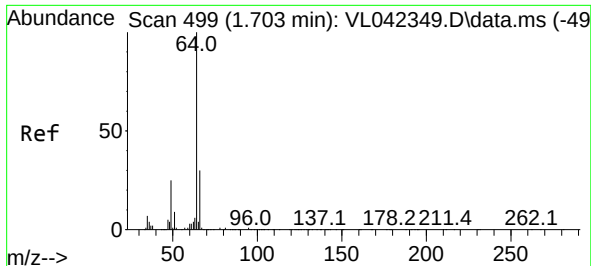
Tgt Ion: 62 Resp: 1088
 Ion Ratio Lower Upper
 62 100
 64 17.3 25.4 38.0#



#6
 Bromomethane
 Concen: 0.168 ppbv
 RT: 1.668 min Scan# 488
 Delta R.T. 0.000 min
 Lab File: VL042353.D
 Acq: 17 Apr 2025 11:50

Tgt Ion: 94 Resp: 663
 Ion Ratio Lower Upper
 94 100
 96 57.5 66.2 99.2#

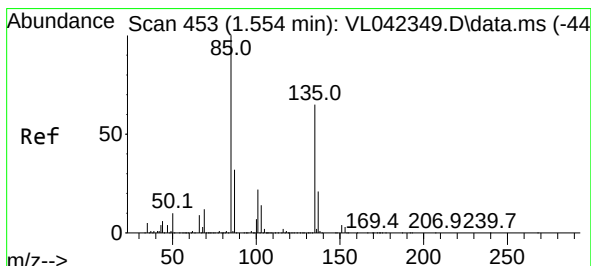
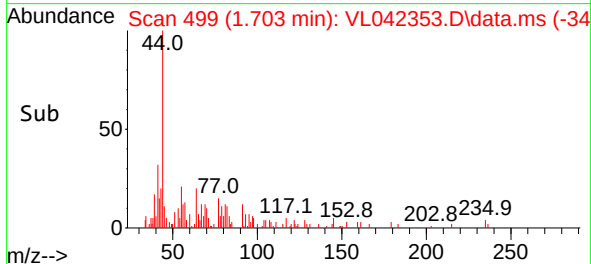
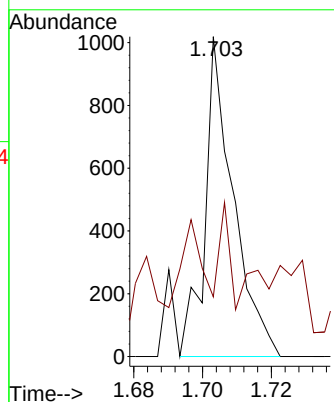
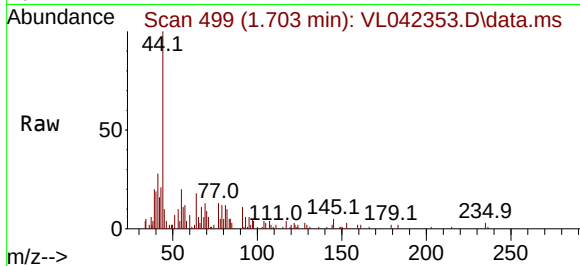




#7
Chloroethane
Concen: 0.176 ppbv
RT: 1.703 min Scan# 499
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

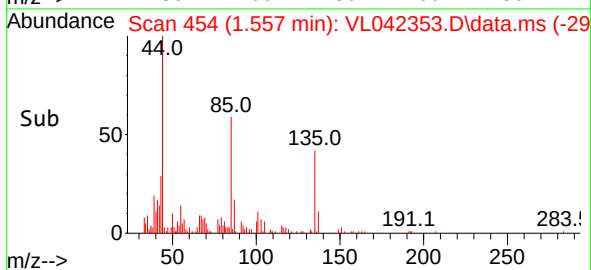
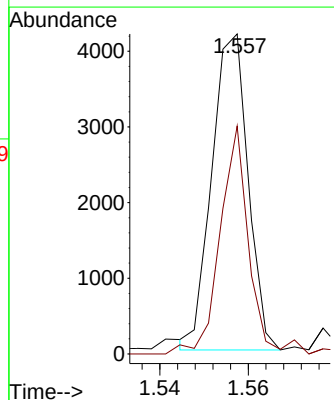
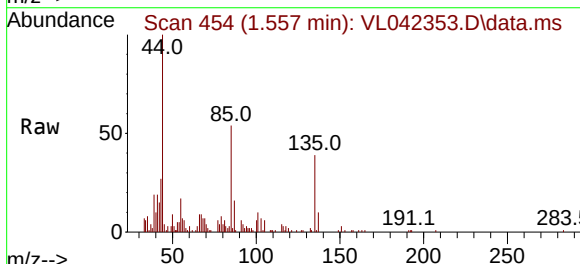
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

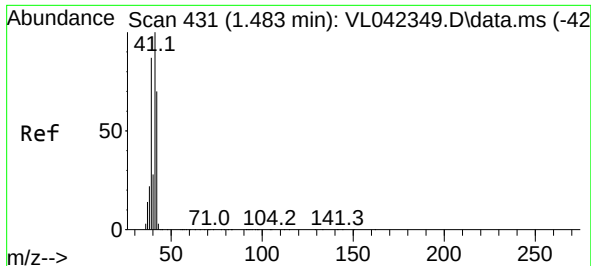
Tgt Ion: 64 Resp: 579
Ion Ratio Lower Upper
64 100
66 18.6 24.6 37.0#



#8
Dichlorotetrafluoroethane
Concen: 0.131 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 85 Resp: 2377
Ion Ratio Lower Upper
85 100
135 60.3 52.2 78.2





#9

Propene

Concen: 0.034 ppbv

RT: 1.435 min Scan# 41

Delta R.T. -0.048 min

Lab File: VL042353.D

Acq: 17 Apr 2025 11:50

Instrument :

MSVOA_1

ClientSampleId :

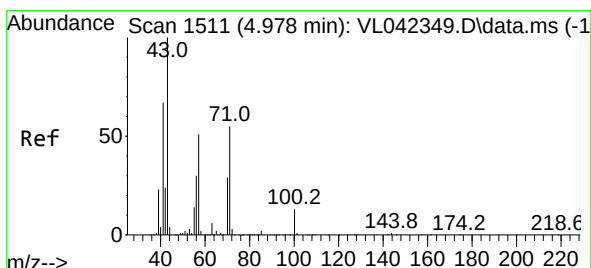
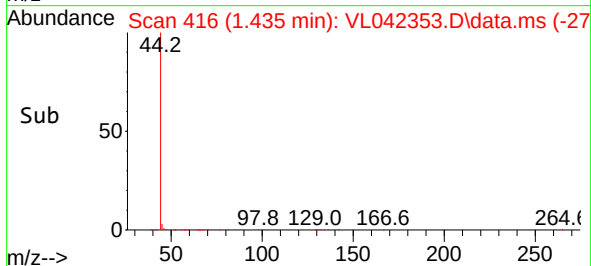
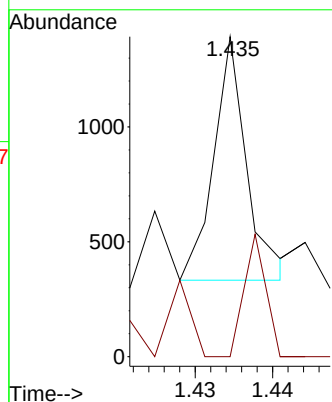
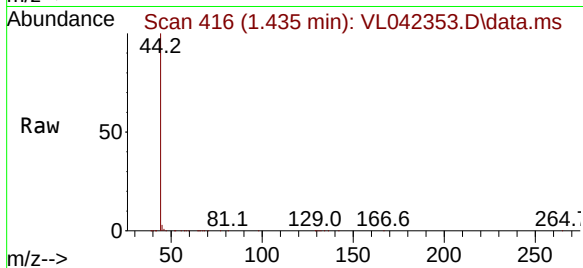
VSTDICC0.1

Tgt Ion: 41 Resp: 314

Ion Ratio Lower Upper

41 100

42 78.7 56.2 84.4



#10

Heptane

Concen: 0.043 ppbv

RT: 4.988 min Scan# 1514

Delta R.T. 0.010 min

Lab File: VL042353.D

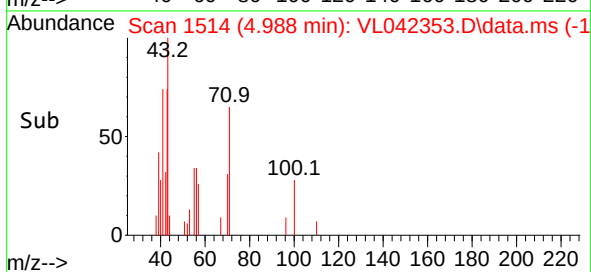
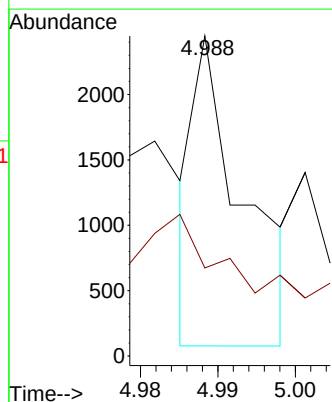
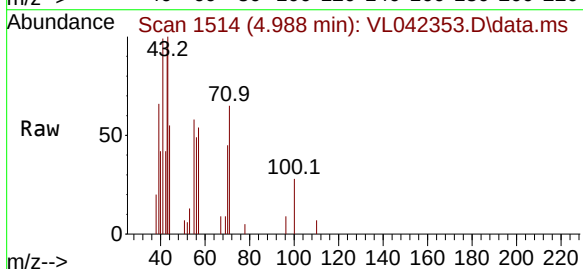
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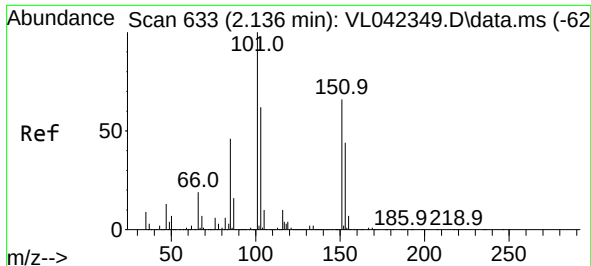
Tgt Ion: 43 Resp: 1056

Ion Ratio Lower Upper

43 100

57 220.7 39.9 59.9#

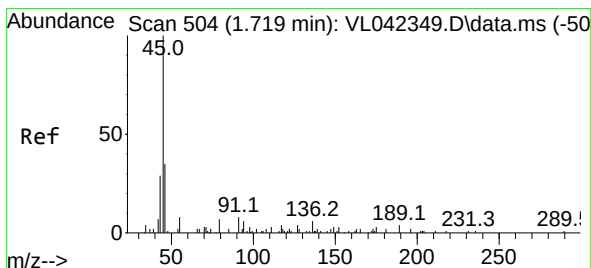
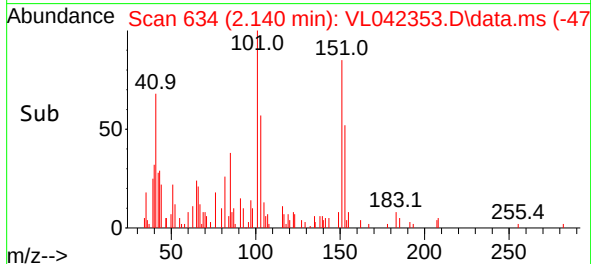
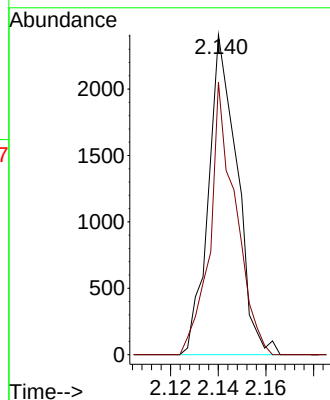
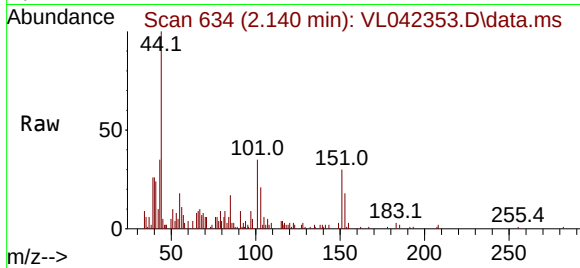




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.123 ppbv
RT: 2.140 min Scan# 61
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

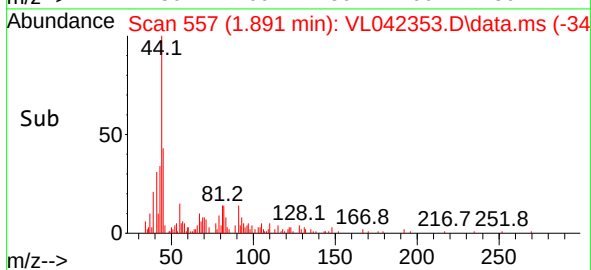
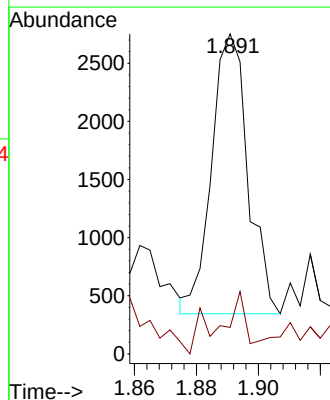
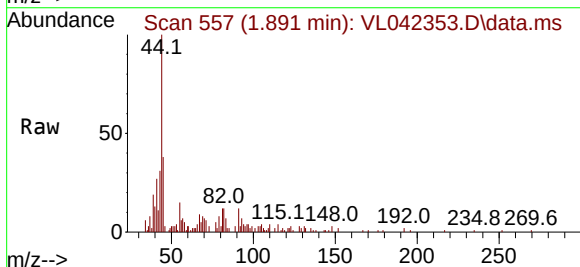
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MSVOA_1
ClientSampleId :
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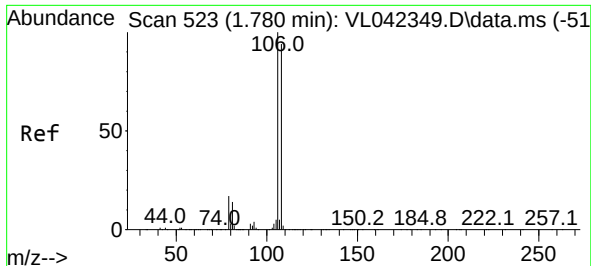
Tgt Ion:101 Resp: 2017
Ion Ratio Lower Upper
101 100
151 76.2 57.0 85.6



#13
Ethanol
Concen: 2.618 ppbv
RT: 1.891 min Scan# 557
Delta R.T. 0.172 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 45 Resp: 1958
Ion Ratio Lower Upper
45 100
46 0.0 21.9 87.7#





#14
Bromoethene

Concen: 0.164 ppbv

RT: 1.781 min Scan# 51

Delta R.T. 0.000 min

Lab File: VL042353.D

Acq: 17 Apr 2025 11:50

Instrument :

MSVOA_1

ClientSampleId :

VSTDICC0.1

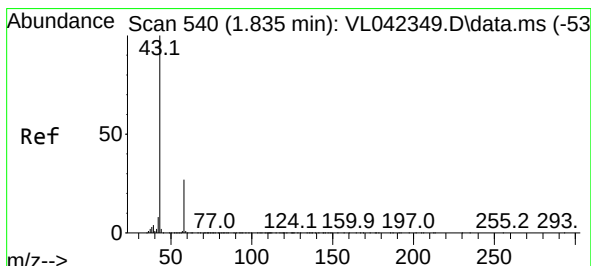
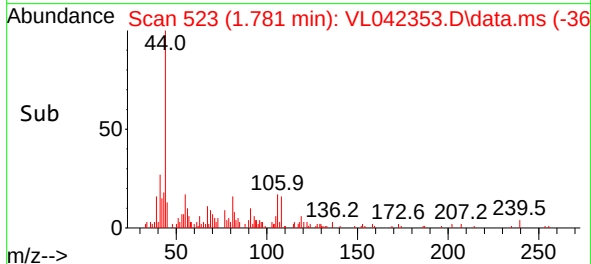
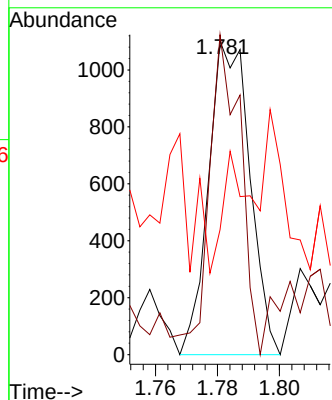
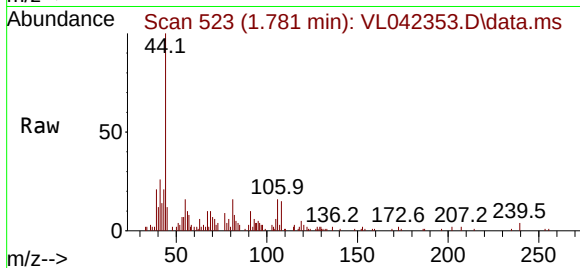
Tgt Ion:108 Resp: 1015

Ion Ratio Lower Upper

108 100

106 128.3 85.9 128.9

79 0.0 13.9 20.9#



#15

Acetone

Concen: 0.245 ppbv

RT: 1.839 min Scan# 541

Delta R.T. 0.004 min

Lab File: VL042353.D

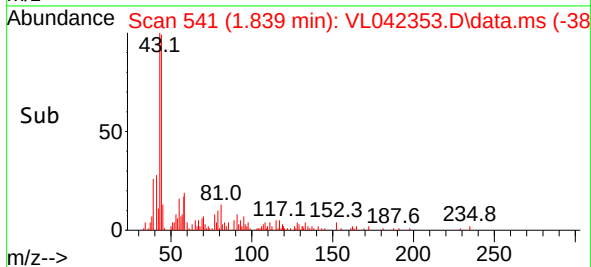
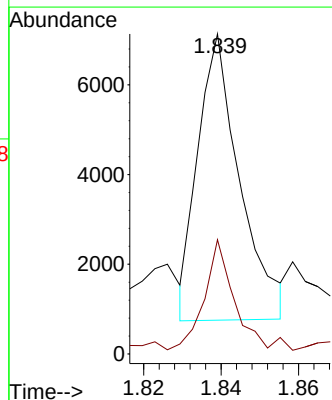
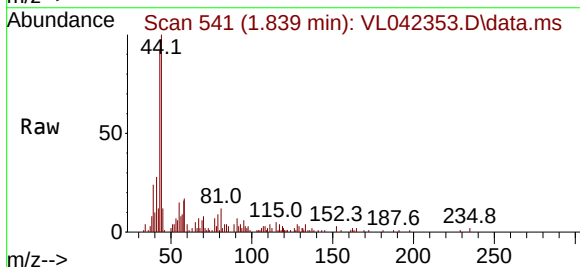
Acq: 17 Apr 2025 11:50

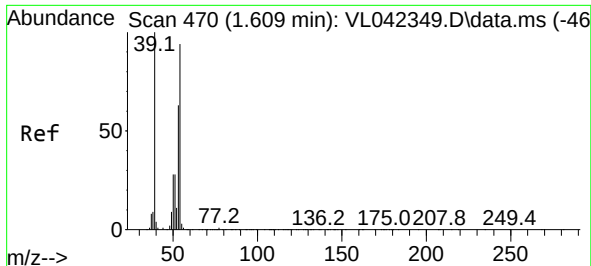
Tgt Ion: 43 Resp: 4783

Ion Ratio Lower Upper

43 100

58 37.5 22.4 33.6#

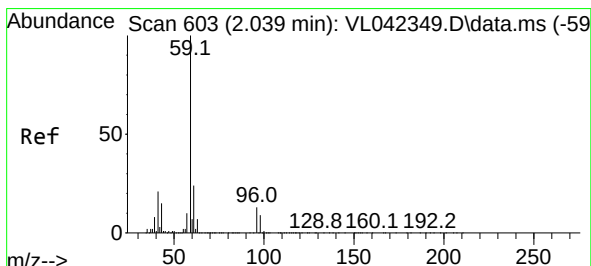
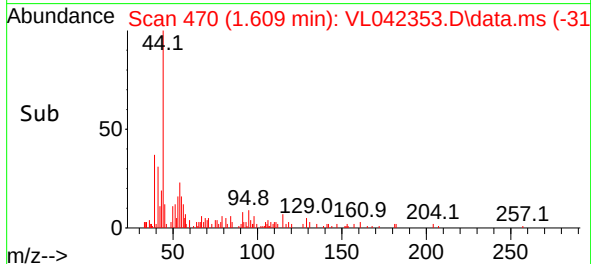
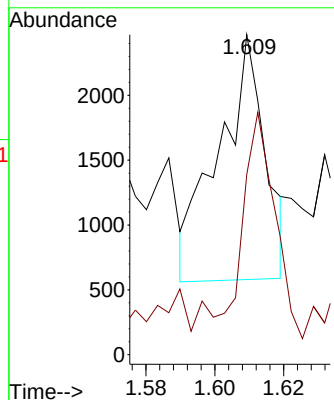
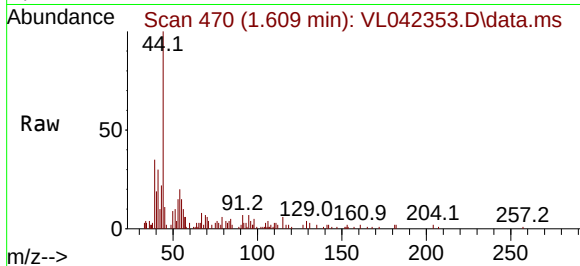




#16
1,3-Butadiene
Concen: 0.193 ppbv
RT: 1.609 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

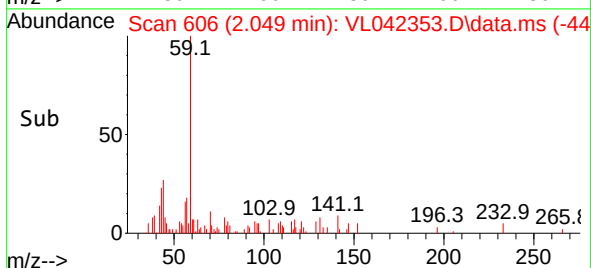
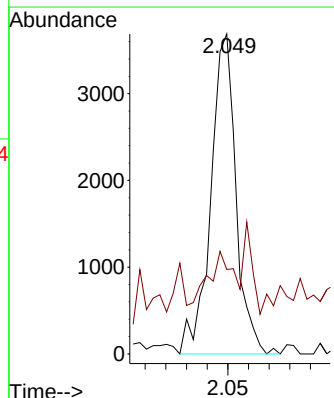
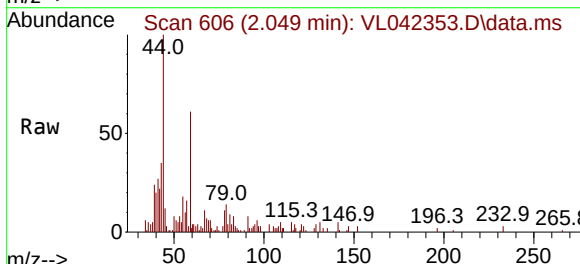
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

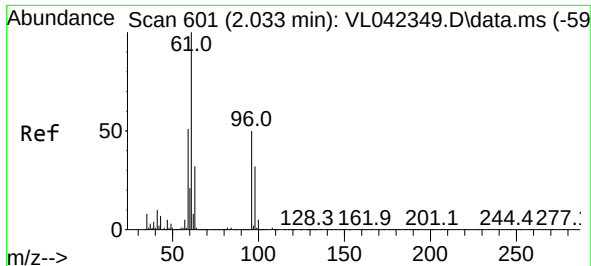
Tgt Ion: 39 Resp: 1776
Ion Ratio Lower Upper
39 100
54 128.7 64.9 97.3#



#17
tert-Butyl alcohol
Concen: 0.129 ppbv
RT: 2.049 min Scan# 606
Delta R.T. 0.010 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 59 Resp: 3130
Ion Ratio Lower Upper
59 100
57 46.5 8.7 13.1#





#18

1,1-Dichloroethene

Concen: 0.136 ppbv

RT: 2.037 min Scan# 601

Delta R.T. 0.004 min

Lab File: VL042353.D

Acq: 17 Apr 2025 11:50

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

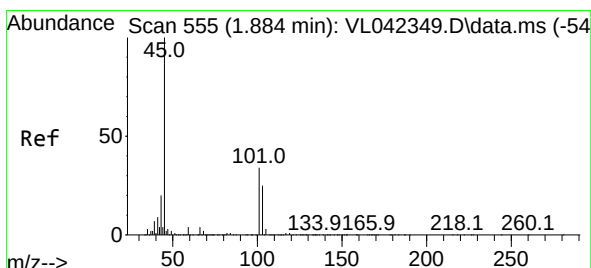
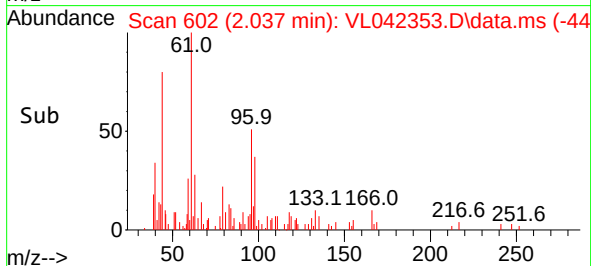
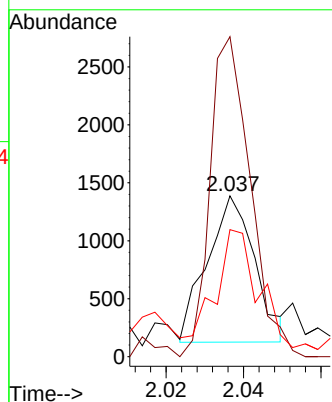
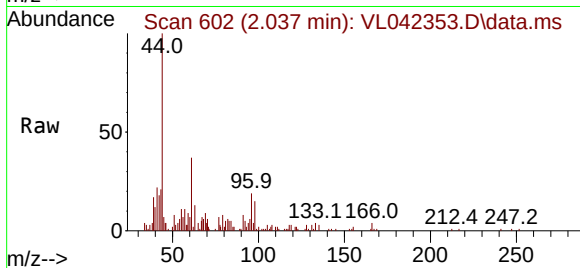
Tgt Ion: 96 Resp: 1074

Ion Ratio Lower Upper

96 100

61 222.5 160.2 240.2

98 75.2 51.0 76.4



#19

Isopropyl Alcohol

Concen: 0.180 ppbv

RT: 1.891 min Scan# 557

Delta R.T. 0.007 min

Lab File: VL042353.D

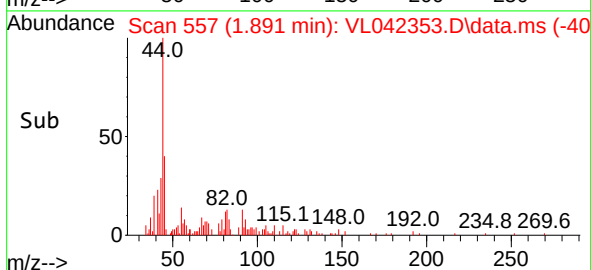
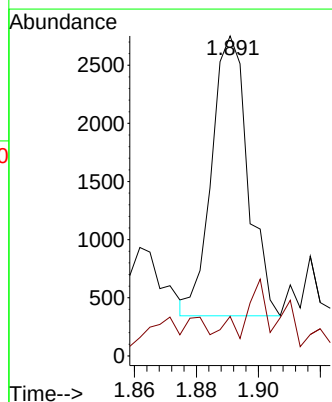
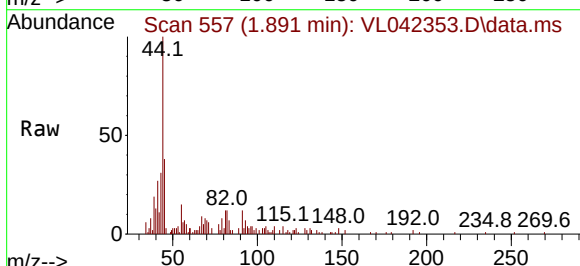
Acq: 17 Apr 2025 11:50

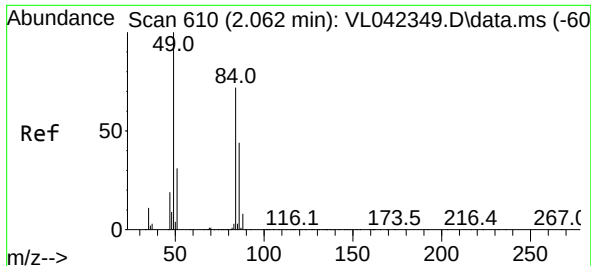
Tgt Ion: 45 Resp: 1958

Ion Ratio Lower Upper

45 100

58 49.5 34.5 51.7

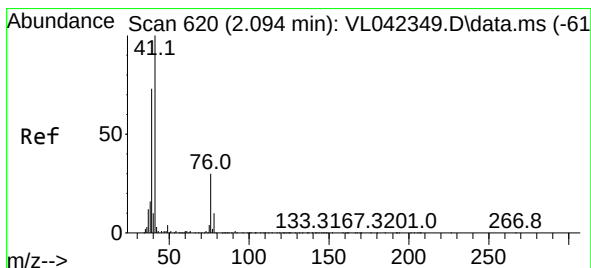
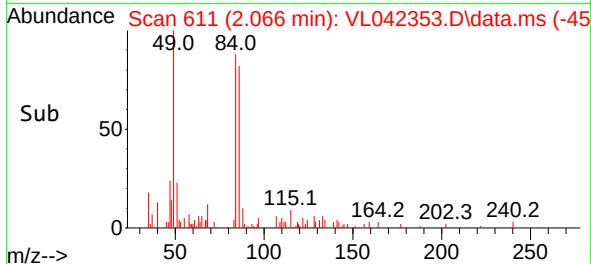
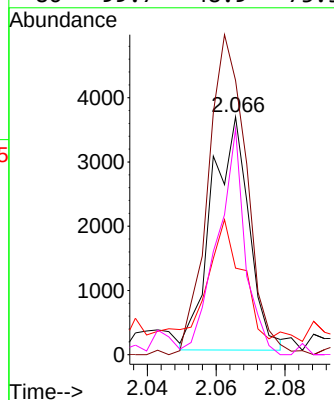
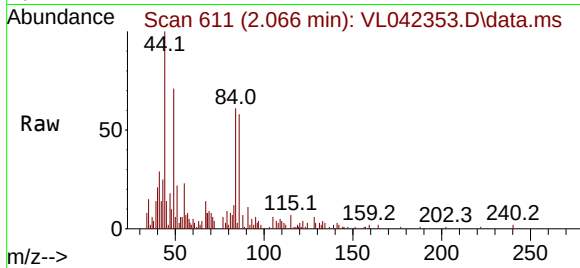




#20
Methylene Chloride
Concen: 0.358 ppbv
RT: 2.066 min Scan# 611
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

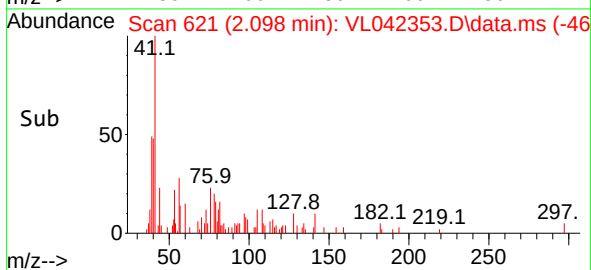
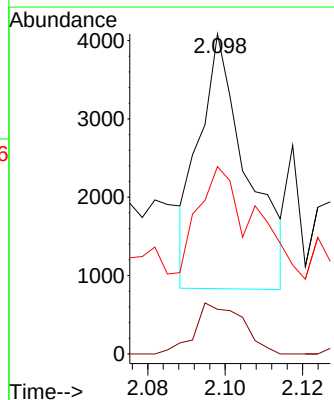
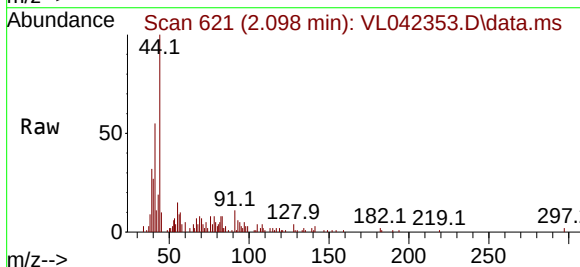
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

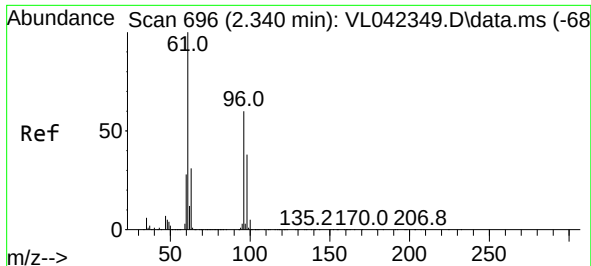
Tgt Ion:	84	Resp:	2741
Ion	Ratio	Lower	Upper
84	100		
49	119.3	111.6	167.4
51	28.2	35.1	52.7#
86	99.7	48.9	73.3#



#21
Allyl Chloride
Concen: 0.206 ppbv
RT: 2.098 min Scan# 621
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion:	41	Resp:	2786
Ion	Ratio	Lower	Upper
41	100		
76	20.0	24.8	37.2#
39	102.2	60.6	90.8#

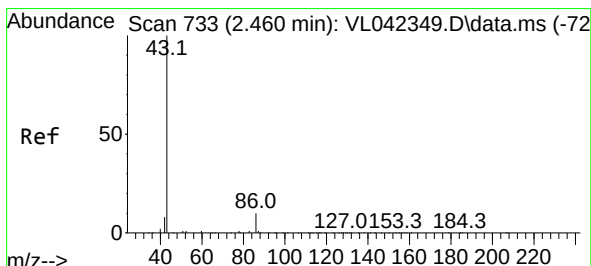
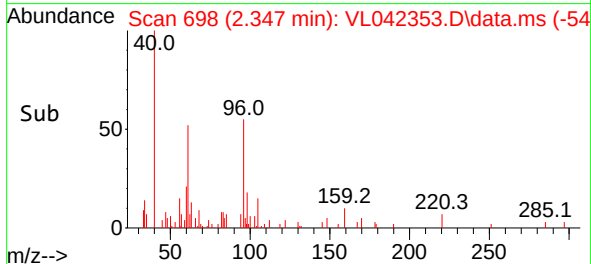
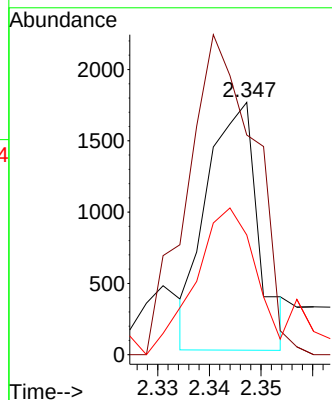
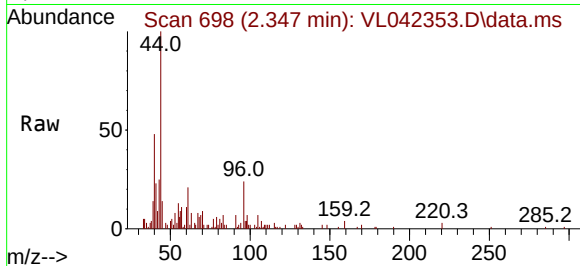




#22
trans-1,2-Dichloroethene
Concen: 0.138 ppbv
RT: 2.347 min Scan# 696
Delta R.T. 0.007 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

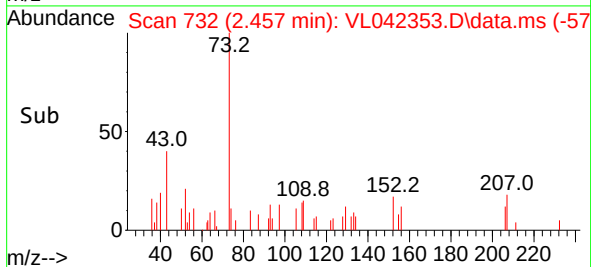
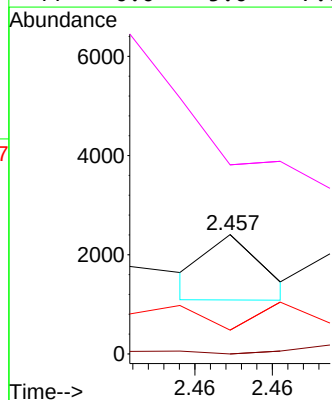
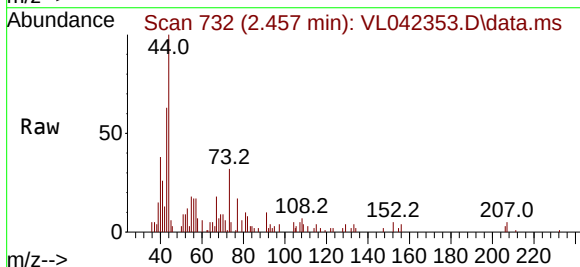
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

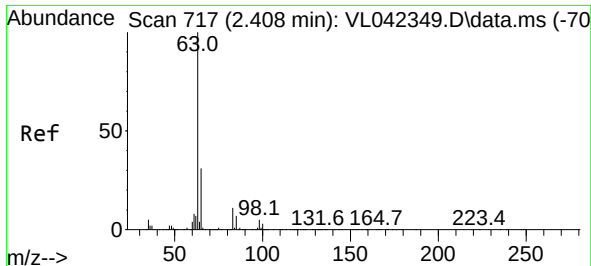
Tgt Ion: 96 Resp: 1201
Ion Ratio Lower Upper
96 100
61 99.5 133.7 200.5#
98 52.9 50.3 75.5



#23
Vinyl Acetate
Concen: 0.041 ppbv
RT: 2.457 min Scan# 732
Delta R.T. -0.003 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 43 Resp: 326
Ion Ratio Lower Upper
43 100
86 0.0 6.5 9.7#
42 0.0 7.8 11.8#
44 0.0 5.0 7.6#

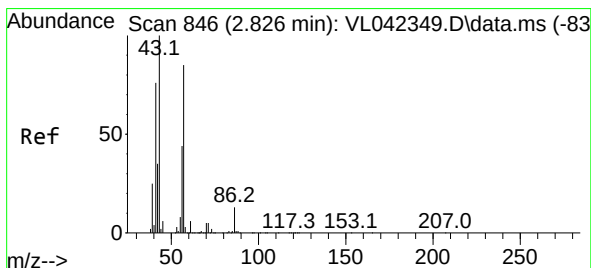
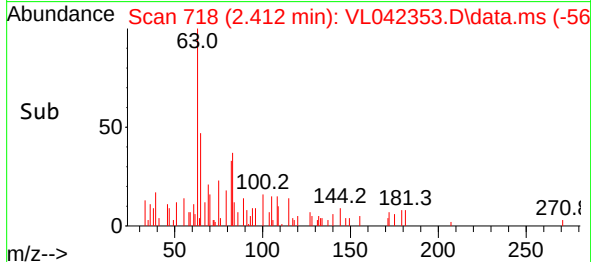
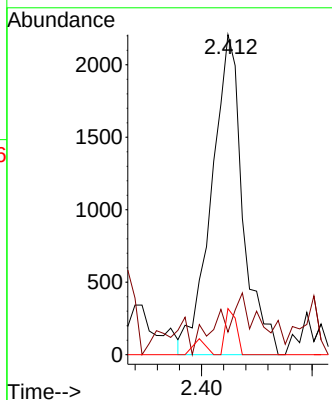
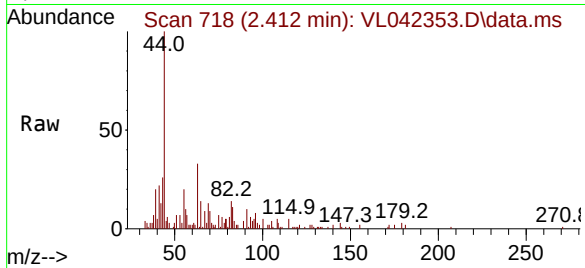




#24
1,1-Dichloroethane
Concen: 0.131 ppbv
RT: 2.412 min Scan# 718
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

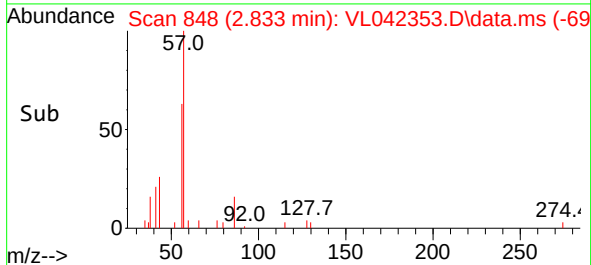
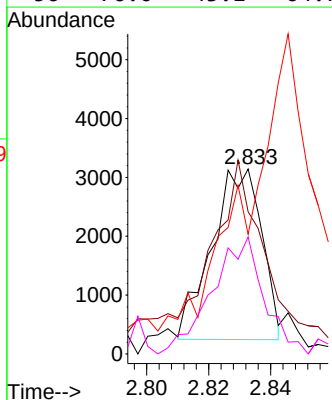
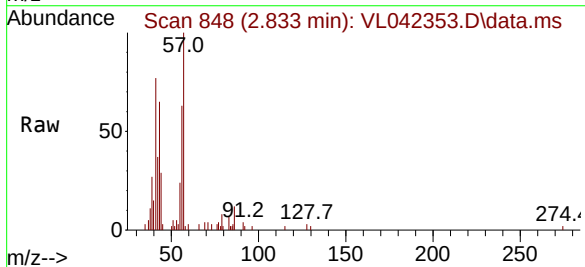
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

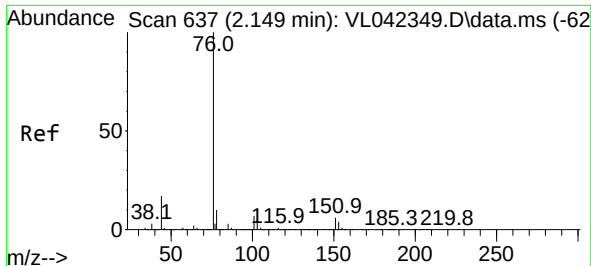
Tgt Ion: 63	Resp: 2169
Ion Ratio	Lower Upper
63	100
98	0.0 2.3 6.8#
100	14.4 1.6 4.8#



#26
Hexane
Concen: 0.167 ppbv
RT: 2.833 min Scan# 848
Delta R.T. 0.007 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 57	Resp: 3260
Ion Ratio	Lower Upper
57	100
41	134.5 77.9 116.9#
43	0.0 208.4 312.6#
56	76.0 43.1 64.7#

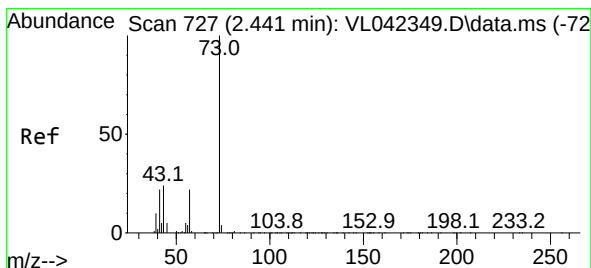
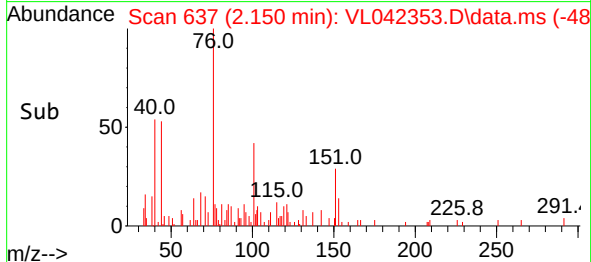
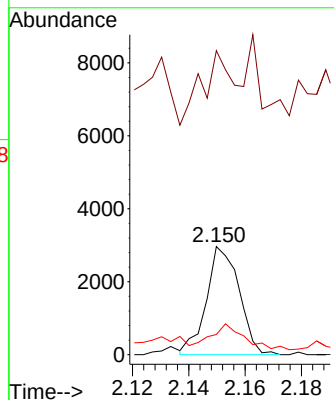
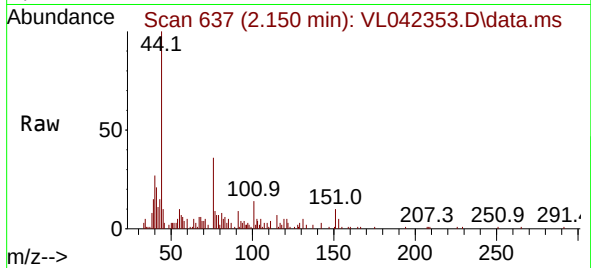




#27
Carbon Disulfide
Concen: 0.115 ppbv
RT: 2.150 min Scan# 61
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

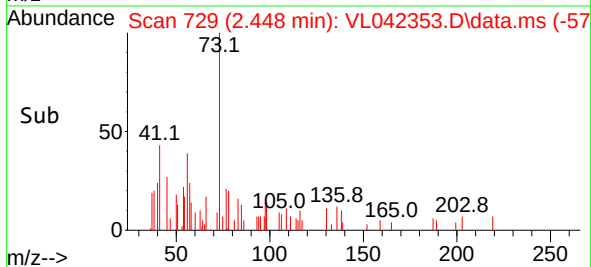
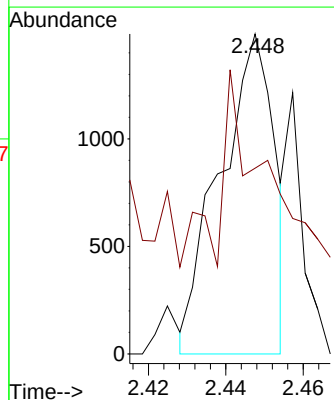
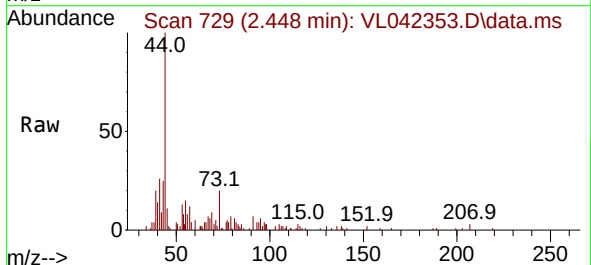
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

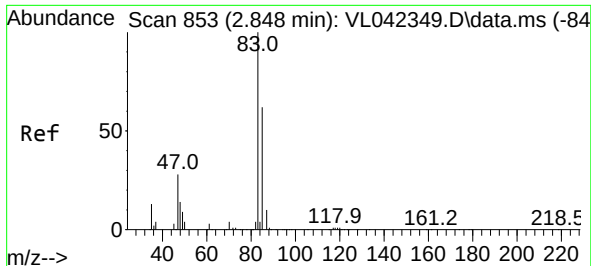
Tgt Ion: 76 Resp: 2396
Ion Ratio Lower Upper
76 100
44 214.1 15.5 23.3#
78 41.9 9.3 13.9#



#28
Methyl tert-Butyl Ether
Concen: 0.114 ppbv
RT: 2.448 min Scan# 729
Delta R.T. 0.007 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 73 Resp: 1460
Ion Ratio Lower Upper
73 100
57 84.5 21.3 31.9#





#29

Chloroform

Concen: 0.128 ppbv

RT: 2.849 min Scan# 81

Delta R.T. 0.000 min

Lab File: VL042353.D

Acq: 17 Apr 2025 11:50

Instrument :

MSVOA_L

ClientSampleId :

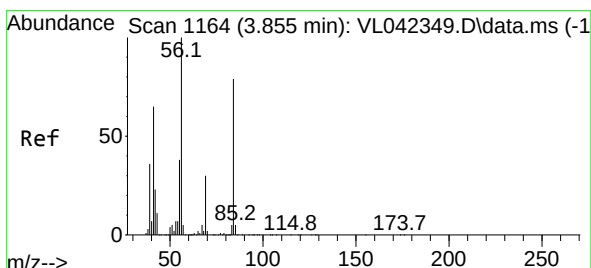
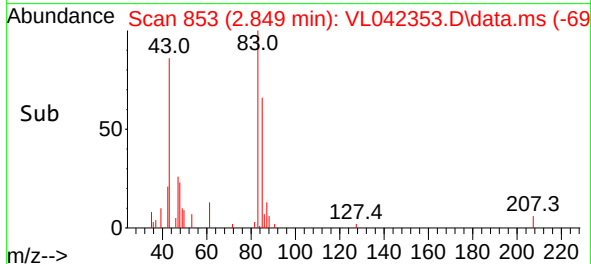
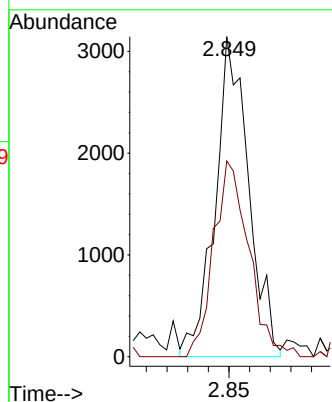
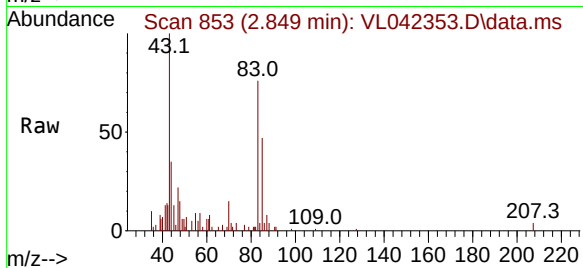
VSTDIC0.1

Tgt Ion: 83 Resp: 3542

Ion Ratio Lower Upper

83 100

85 62.5 50.0 75.0



#30

Cyclohexane

Concen: 0.066 ppbv

RT: 3.859 min Scan# 1165

Delta R.T. 0.004 min

Lab File: VL042353.D

Acq: 17 Apr 2025 11:50

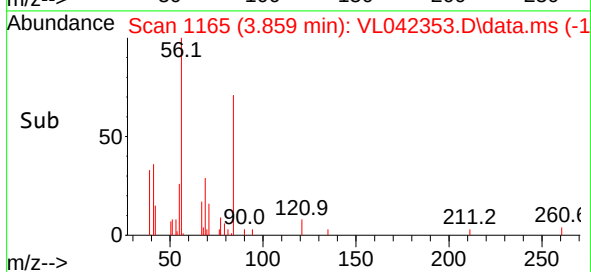
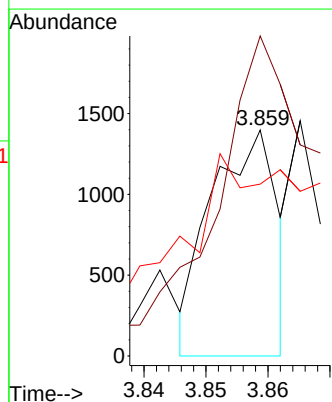
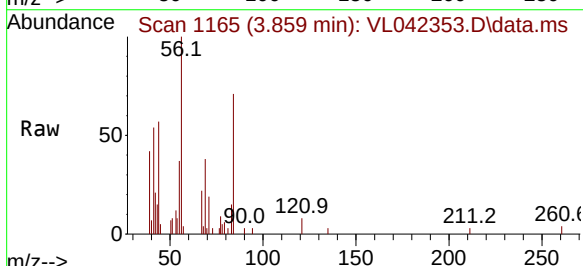
Tgt Ion: 84 Resp: 1037

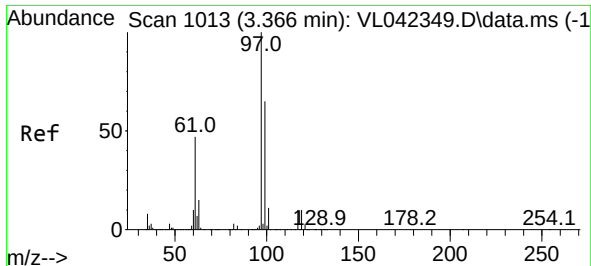
Ion Ratio Lower Upper

84 100

56 278.1 101.0 151.4#

41 346.5 67.4 101.0#

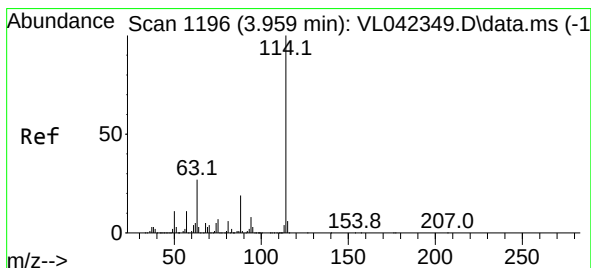
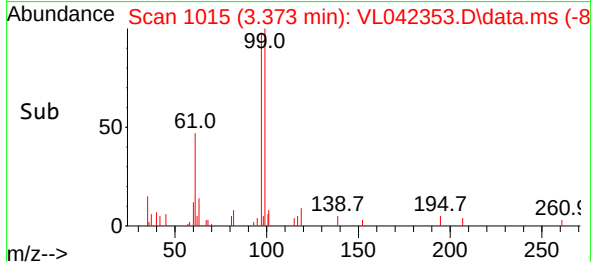
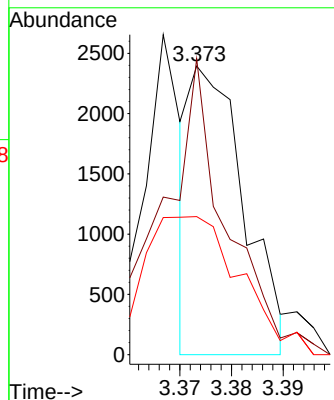
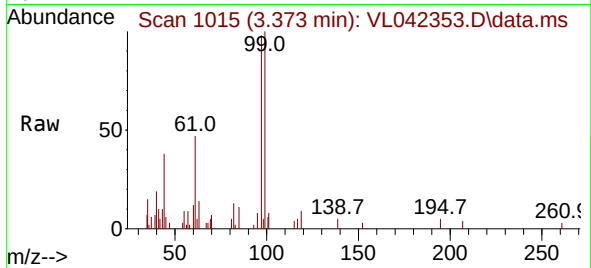




#32
 1,1,1-Trichloroethane
 Concen: 0.059 ppbv
 RT: 3.373 min Scan# 1015
 Delta R.T. 0.007 min
 Lab File: VL042353.D
 Acq: 17 Apr 2025 11:50

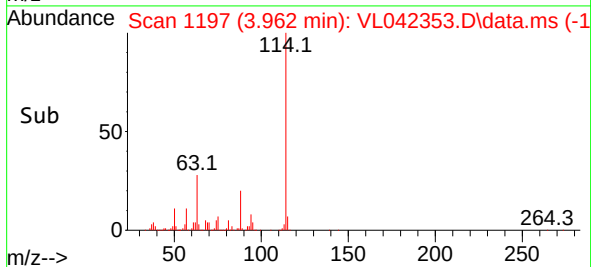
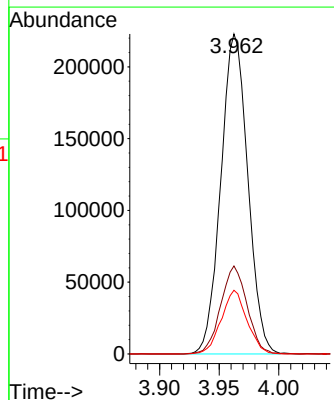
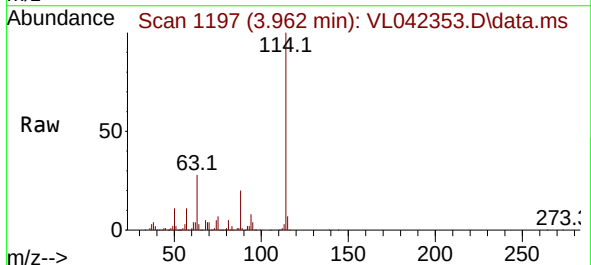
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

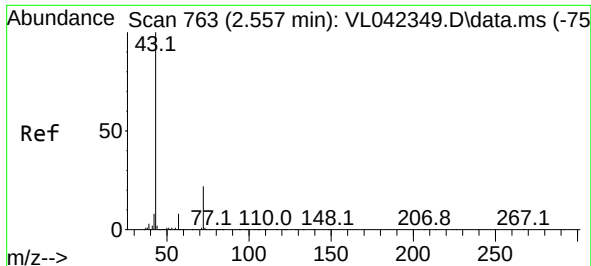
Tgt Ion: 97 Resp: 1734
 Ion Ratio Lower Upper
 97 100
 99 133.4 51.0 76.4#
 61 93.7 38.8 58.2#



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.962 min Scan# 1197
 Delta R.T. 0.004 min
 Lab File: VL042353.D
 Acq: 17 Apr 2025 11:50

Tgt Ion: 114 Resp: 350484
 Ion Ratio Lower Upper
 114 100
 63 26.9 21.8 32.6
 88 19.1 15.5 23.3

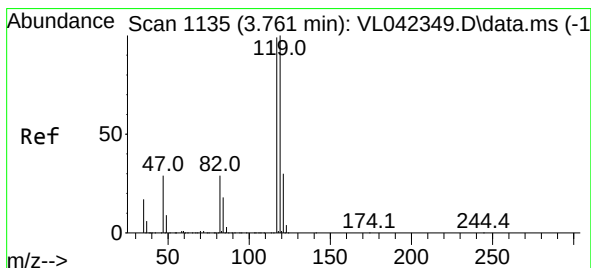
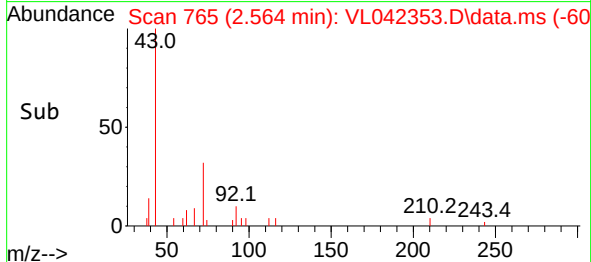
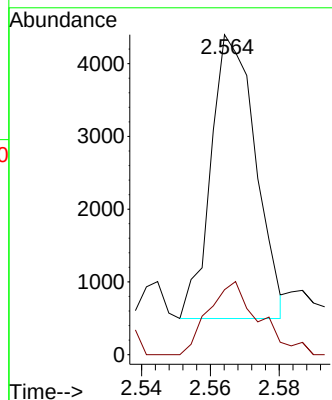
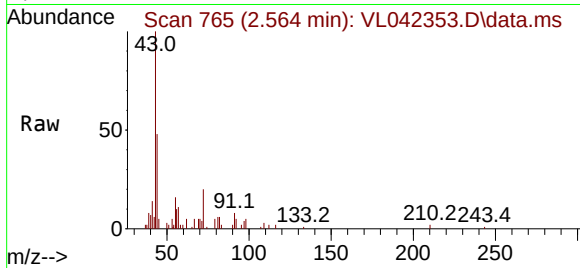




#34
2-Butanone
Concen: 0.126 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.007 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

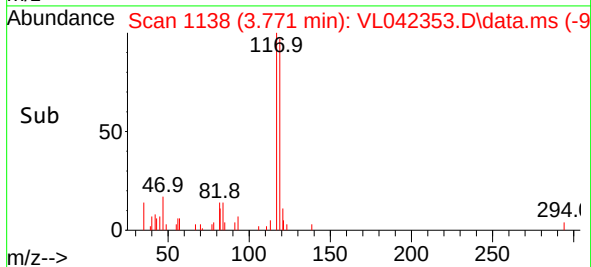
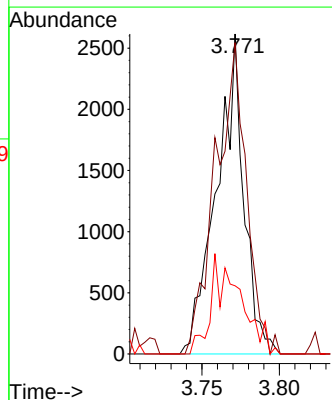
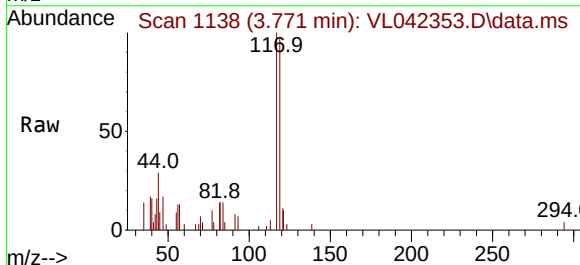
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

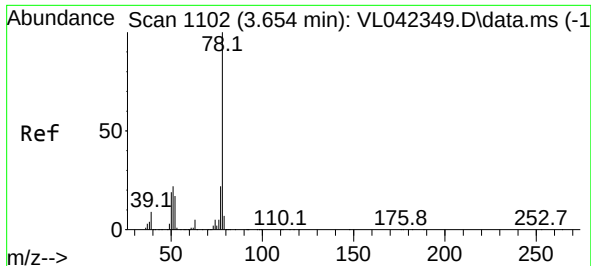
Tgt Ion: 43 Resp: 3506
Ion Ratio Lower Upper
43 100
72 32.7 18.2 27.2#



#35
Carbon Tetrachloride
Concen: 0.101 ppbv
RT: 3.771 min Scan# 1138
Delta R.T. 0.010 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 117 Resp: 3204
Ion Ratio Lower Upper
117 100
119 97.3 80.5 120.7
121 21.3 24.2 36.2#

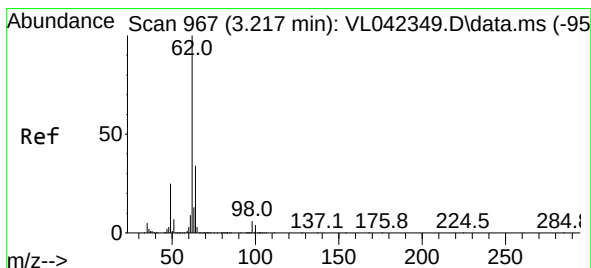
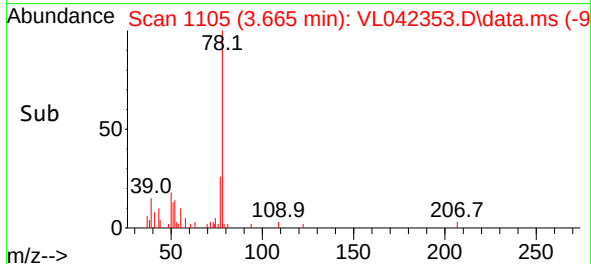
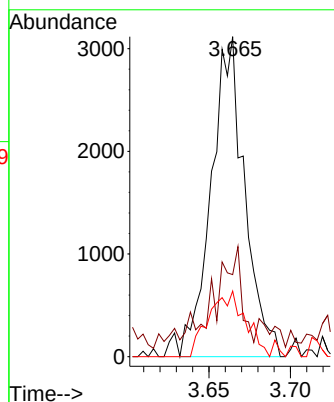
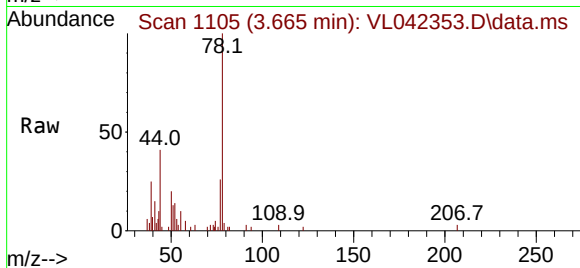




#36
Benzene
Concen: 0.117 ppbv
RT: 3.665 min Scan# 1105
Delta R.T. 0.010 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

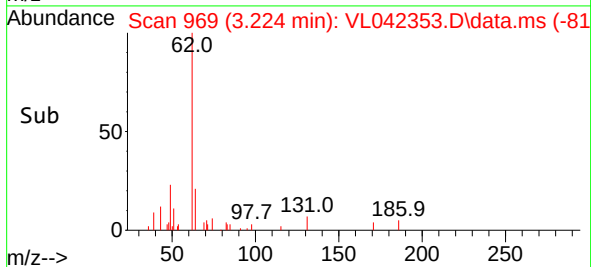
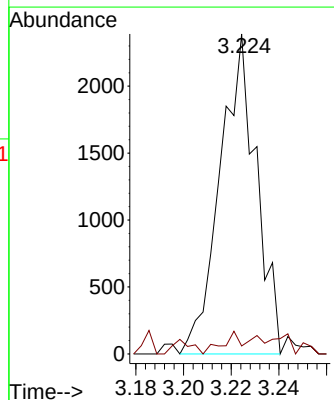
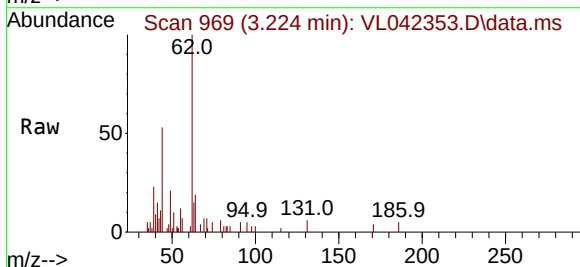
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

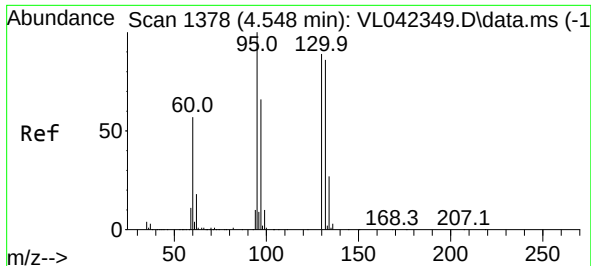
Tgt Ion: 78 Resp: 4424
Ion Ratio Lower Upper
78 100
77 20.4 17.4 26.0
50 20.5 15.5 23.3



#37
1,2-Dichloroethane
Concen: 0.111 ppbv
RT: 3.224 min Scan# 969
Delta R.T. 0.007 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 62 Resp: 2523
Ion Ratio Lower Upper
62 100
98 0.0 5.1 7.7#

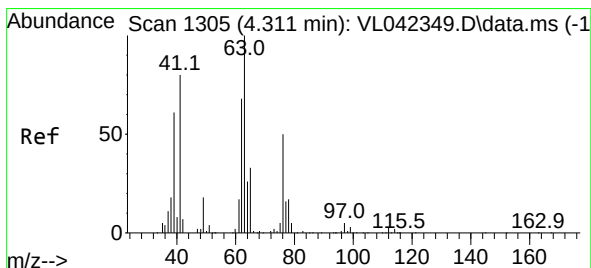
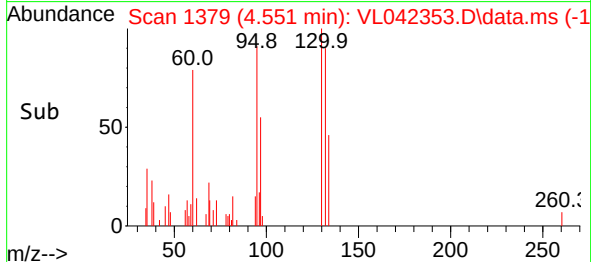
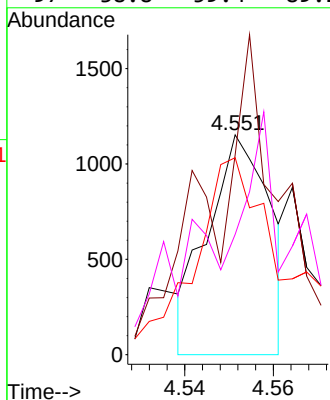
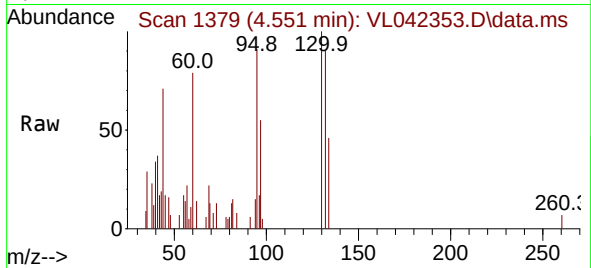




#38
 Trichloroethene
 Concen: 0.067 ppbv
 RT: 4.551 min Scan# 11
 Delta R.T. 0.004 min
 Lab File: VL042353.D
 Acq: 17 Apr 2025 11:50

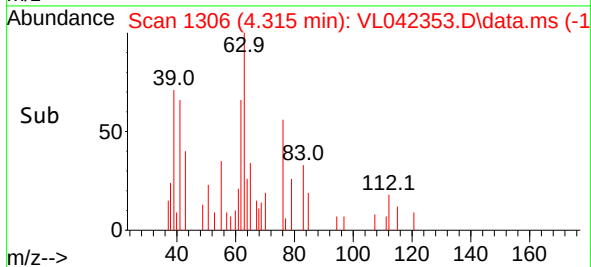
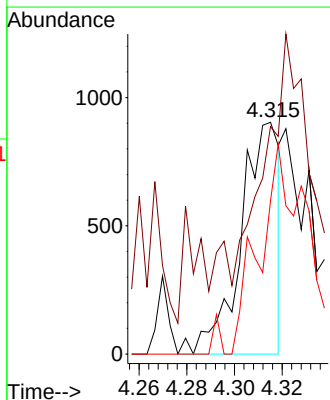
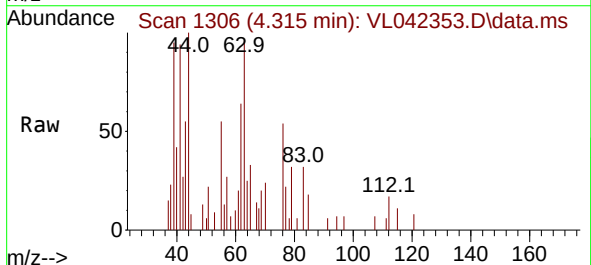
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

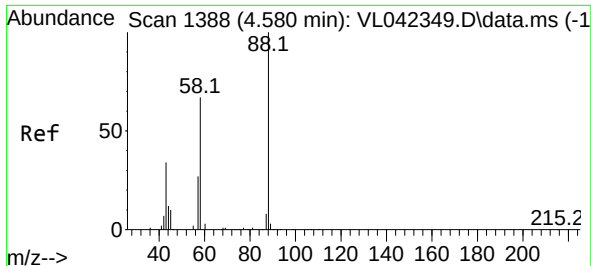
Tgt Ion:130 Resp: 1113
 Ion Ratio Lower Upper
 130 100
 95 60.4 89.8 134.6#
 132 78.4 77.7 116.5
 97 38.8 59.4 89.2#



#39
 1,2-Dichloropropane
 Concen: 0.071 ppbv
 RT: 4.315 min Scan# 1306
 Delta R.T. 0.004 min
 Lab File: VL042353.D
 Acq: 17 Apr 2025 11:50

Tgt Ion: 63 Resp: 1007
 Ion Ratio Lower Upper
 63 100
 41 84.8 64.2 96.2
 62 66.2 54.3 81.5





#40

1,4-Dioxane

Concen: 0.056 ppbv

RT: 4.616 min Scan# 1399

Delta R.T. 0.036 min

Lab File: VL042353.D

Acq: 17 Apr 2025 11:50

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

Tgt Ion: 88 Resp: 431

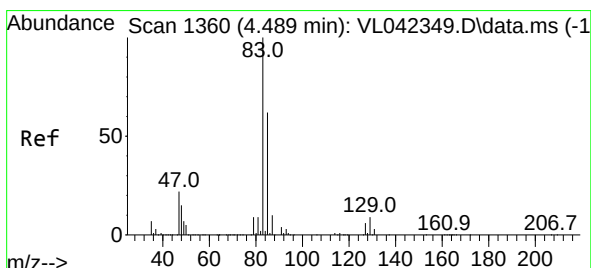
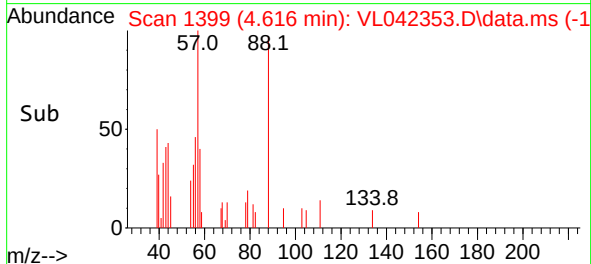
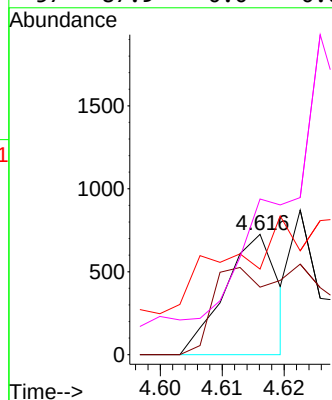
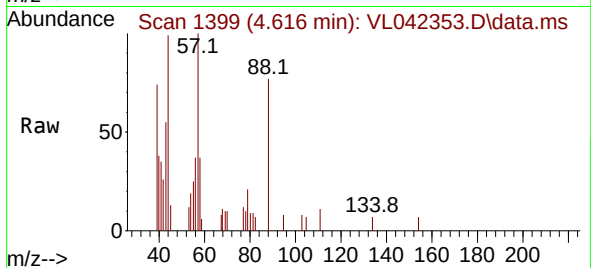
Ion Ratio Lower Upper

88 100

58 18.1 61.4 92.0#

43 247.6 23.2 34.8#

57 87.9 0.0 0.0#



#42

Bromodichloromethane

Concen: 0.077 ppbv

RT: 4.496 min Scan# 1362

Delta R.T. 0.007 min

Lab File: VL042353.D

Acq: 17 Apr 2025 11:50

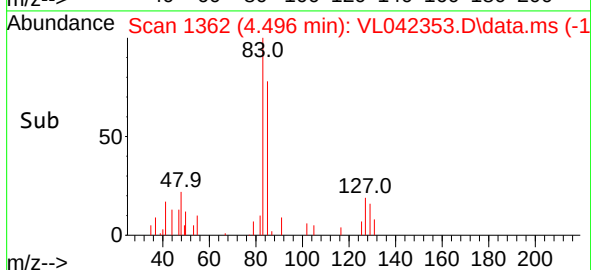
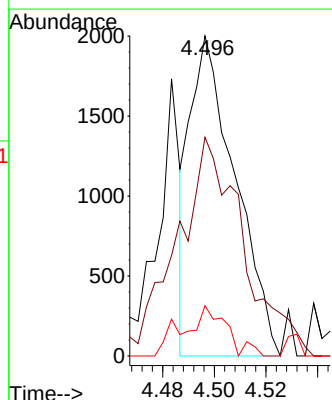
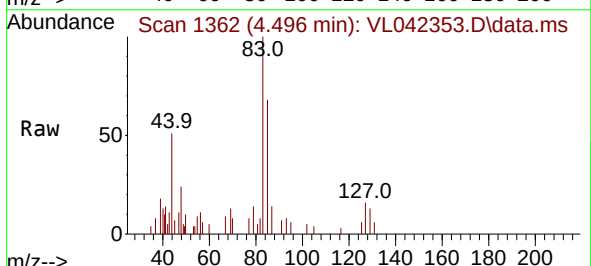
Tgt Ion: 83 Resp: 2443

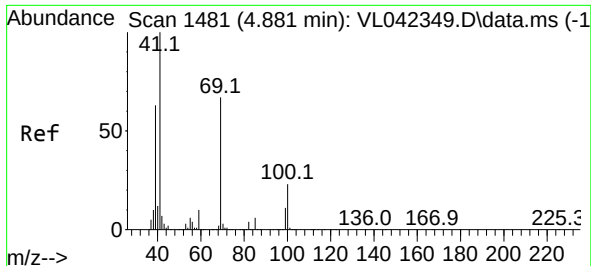
Ion Ratio Lower Upper

83 100

85 55.0 49.7 74.5

127 15.7 5.1 7.7#





#43

Methyl Methacrylate

Concen: 0.099 ppbv

RT: 4.894 min Scan# 1485

Delta R.T. 0.013 min

Lab File: VL042353.D

Acq: 17 Apr 2025 11:50

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

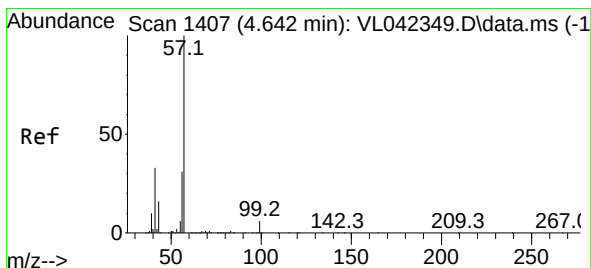
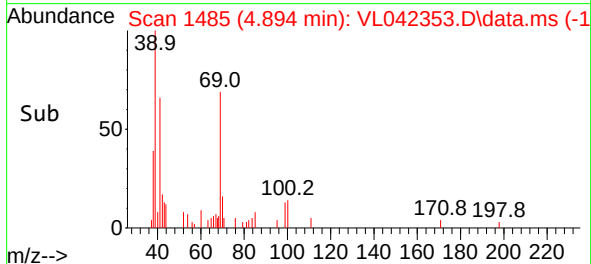
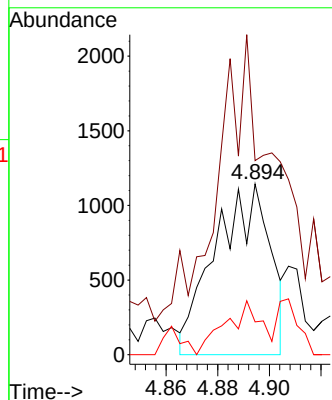
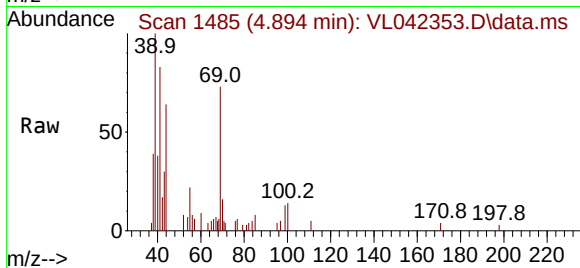
Tgt Ion: 69 Resp: 1683

Ion Ratio Lower Upper

69 100

41 192.5 118.6 177.8#

100 0.0 28.2 42.2#



#44

2,2,4-Trimethylpentane

Concen: 0.032 ppbv

RT: 4.648 min Scan# 1409

Delta R.T. 0.007 min

Lab File: VL042353.D

Acq: 17 Apr 2025 11:50

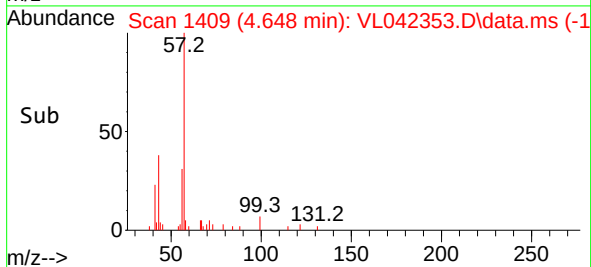
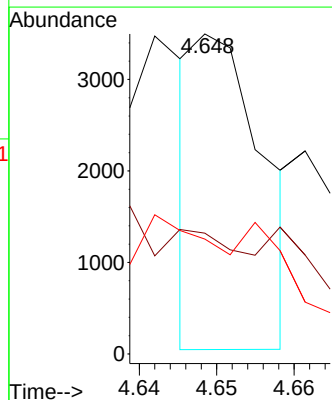
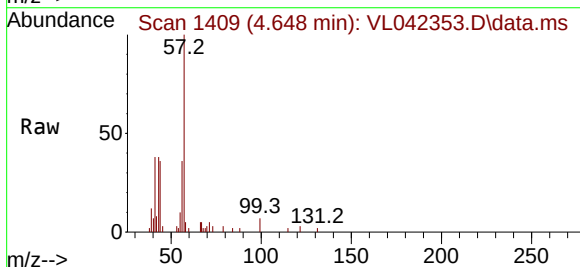
Tgt Ion: 57 Resp: 2115

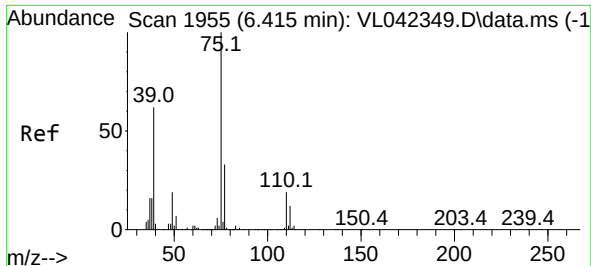
Ion Ratio Lower Upper

57 100

41 0.0 27.2 40.8#

56 0.0 25.7 38.5#

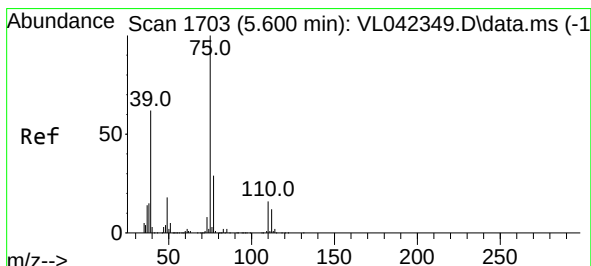
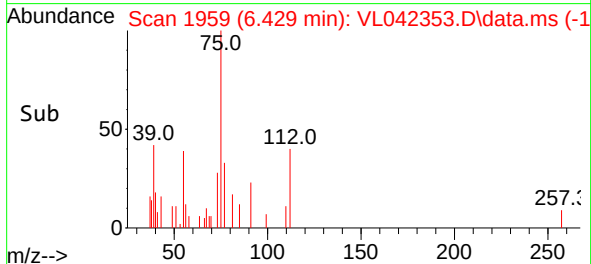
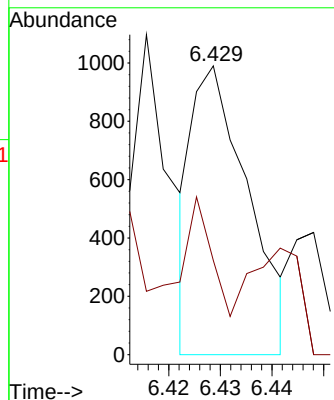
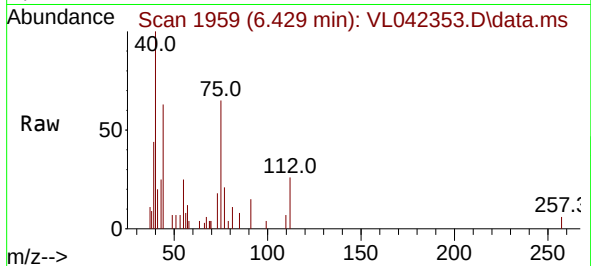




#45
 t-1,3-Dichloropropene
 Concen: 0.043 ppbv
 RT: 6.429 min Scan# 1955
 Delta R.T. 0.013 min
 Lab File: VL042353.D
 Acq: 17 Apr 2025 11:50

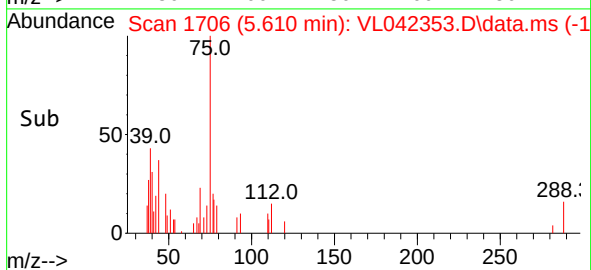
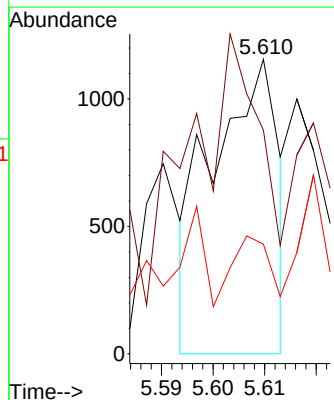
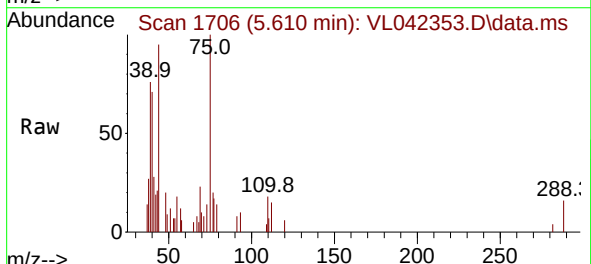
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

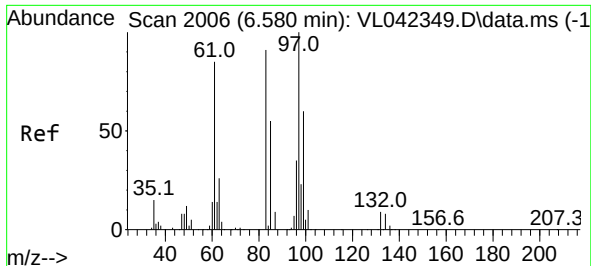
Tgt Ion: 75 Resp: 748
 Ion Ratio Lower Upper
 75 100
 77 32.6 27.0 40.6



#46
 cis-1,3-Dichloropropene
 Concen: 0.048 ppbv
 RT: 5.610 min Scan# 1706
 Delta R.T. 0.010 min
 Lab File: VL042353.D
 Acq: 17 Apr 2025 11:50

Tgt Ion: 75 Resp: 1032
 Ion Ratio Lower Upper
 75 100
 39 71.3 50.0 75.0
 77 32.3 23.0 34.6





#47

1,1,2-Trichloroethane

Concen: 0.038 ppbv

RT: 6.584 min Scan# 2006

Delta R.T. 0.004 min

Lab File: VL042353.D

Acq: 17 Apr 2025 11:50

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

Tgt Ion: 97 Resp: 540

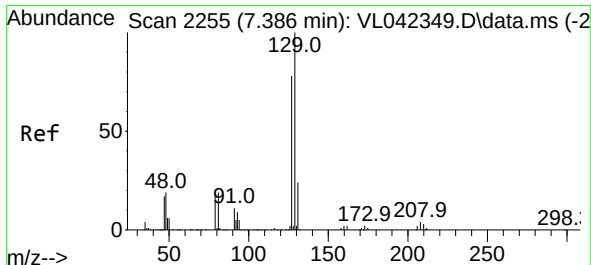
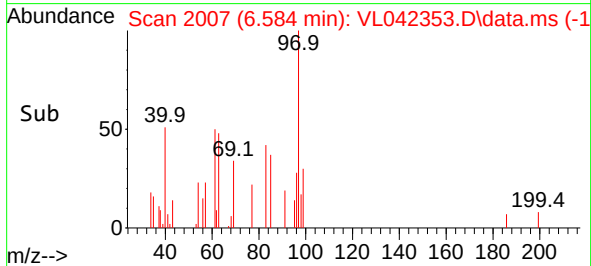
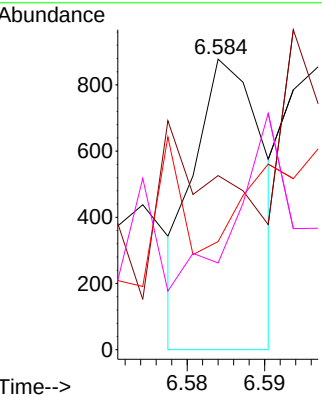
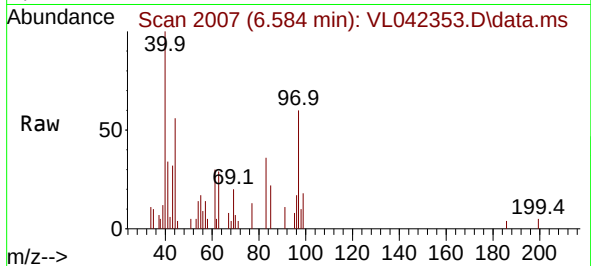
Ion Ratio Lower Upper

97 100

83 36.8 72.8 109.2#

85 0.0 44.2 66.4#

99 21.1 47.9 71.9#



#48

Dibromochloromethane

Concen: 0.045 ppbv

RT: 7.393 min Scan# 2257

Delta R.T. 0.007 min

Lab File: VL042353.D

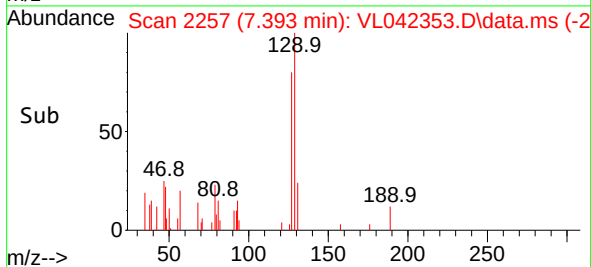
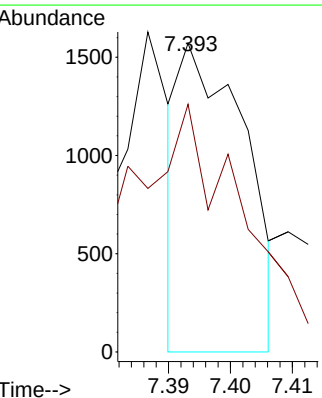
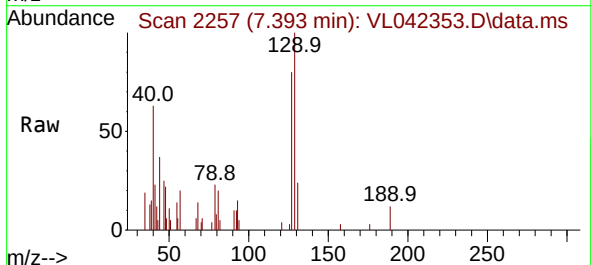
Acq: 17 Apr 2025 11:50

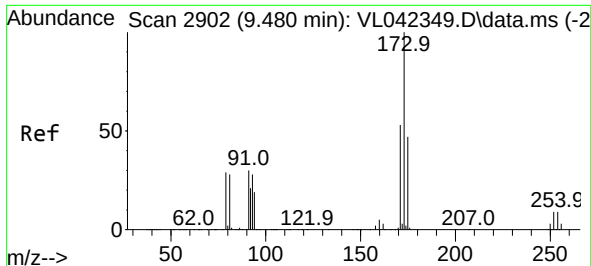
Tgt Ion: 129 Resp: 1149

Ion Ratio Lower Upper

129 100

127 167.2 39.1 117.3#

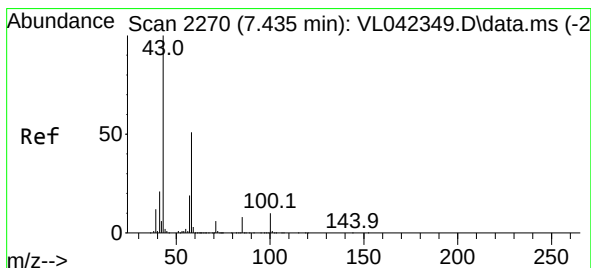
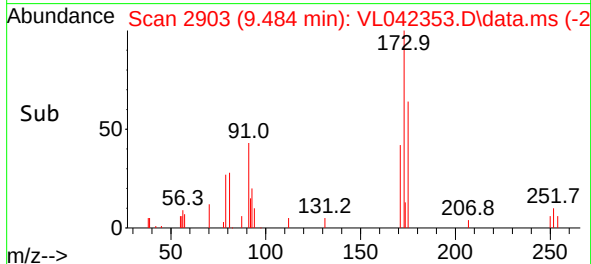
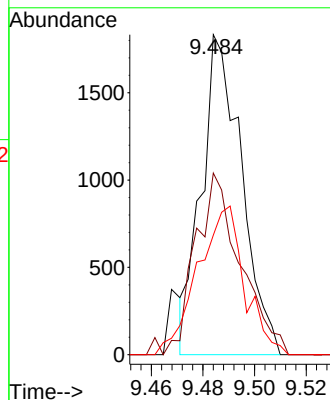
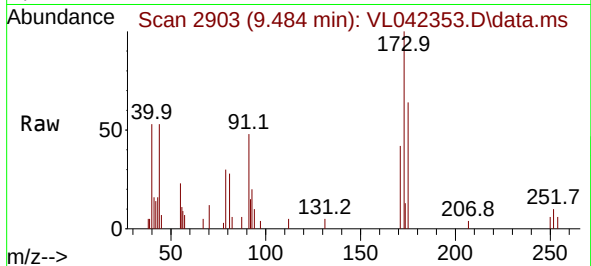




#49
Bromoform
Concen: 0.089 ppbv
RT: 9.484 min Scan# 2902
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

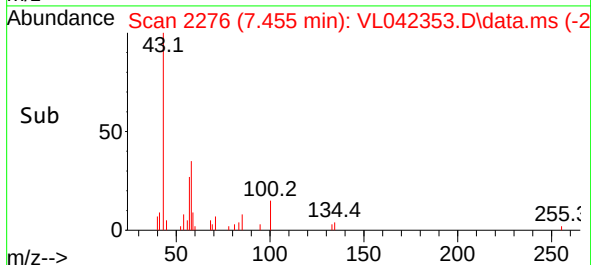
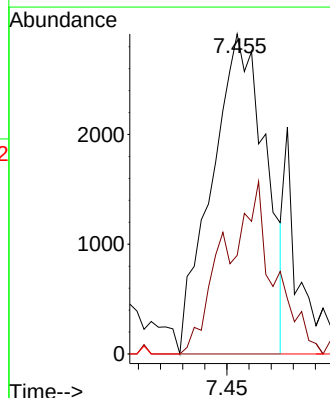
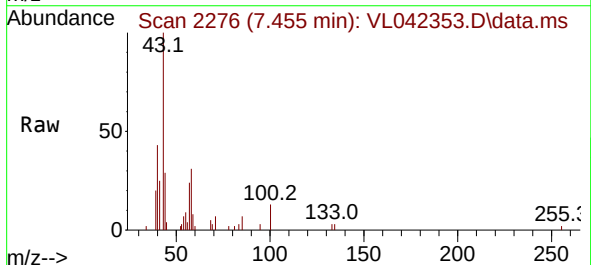
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

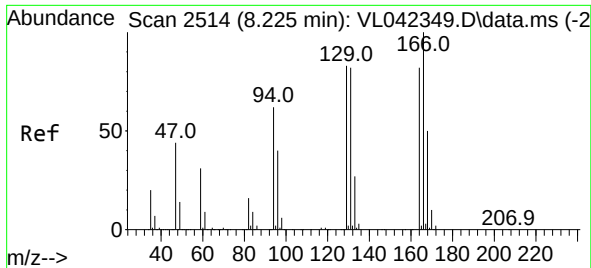
Tgt Ion:173 Resp: 1973
Ion Ratio Lower Upper
173 100
175 64.7 38.2 57.2#
171 54.2 40.9 61.3



#51
2-Hexanone
Concen: 0.118 ppbv
RT: 7.455 min Scan# 2276
Delta R.T. 0.020 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 43 Resp: 4915
Ion Ratio Lower Upper
43 100
58 49.9 40.2 60.4
98 0.0 0.1 0.1#

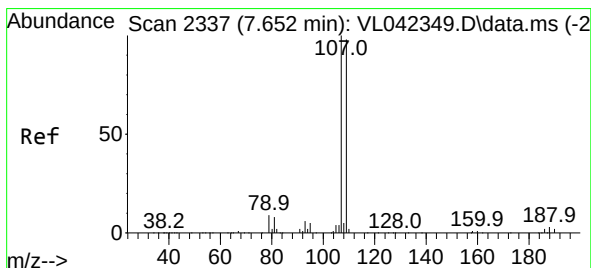
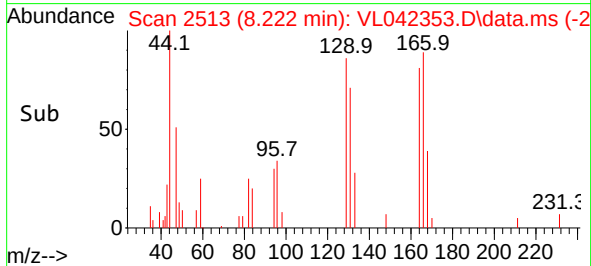
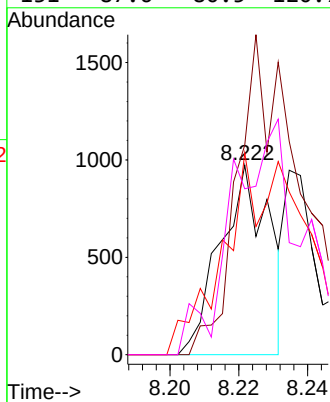
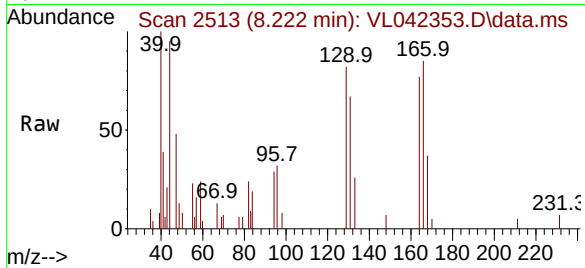




#52
Tetrachloroethene
Concen: 0.065 ppbv
RT: 8.222 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

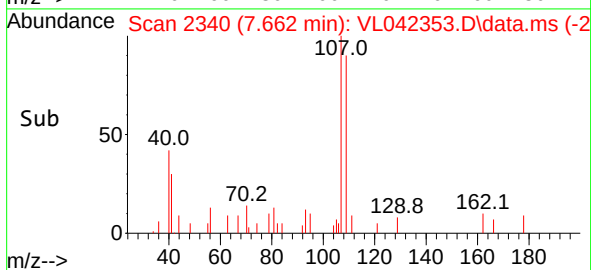
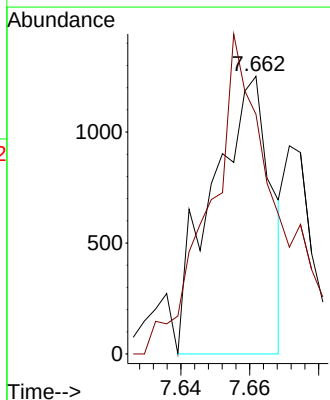
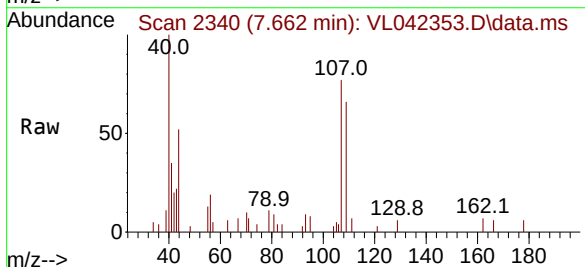
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

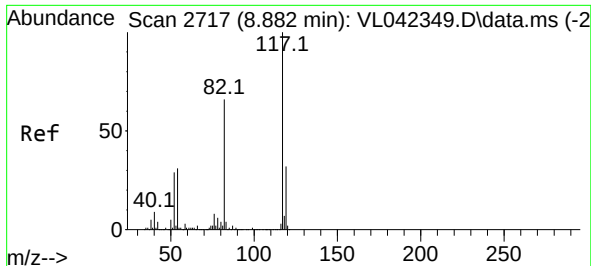
Tgt	Ion:164	Resp:	957
Ion	Ratio	Lower	Upper
164	100		
166	110.6	98.2	147.2
129	88.3	81.8	122.8
131	87.6	80.5	120.7



#54
1,2-Dibromoethane
Concen: 0.072 ppbv
RT: 7.662 min Scan# 2340
Delta R.T. 0.010 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion:107	Resp:	1470	
Ion	Ratio	Lower	Upper
107	100		
109	72.7	78.2	117.4#

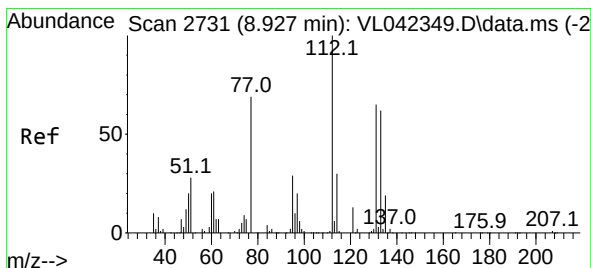
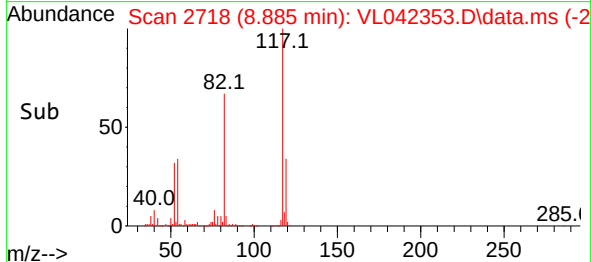
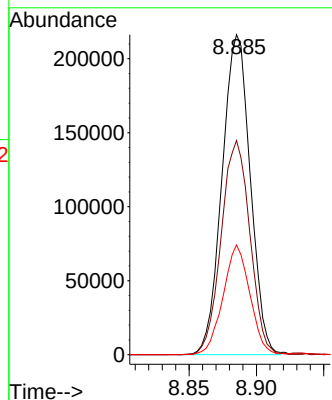
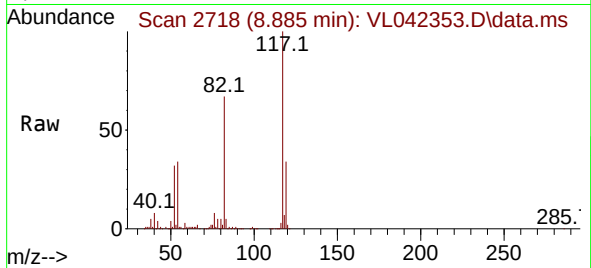




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2717
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

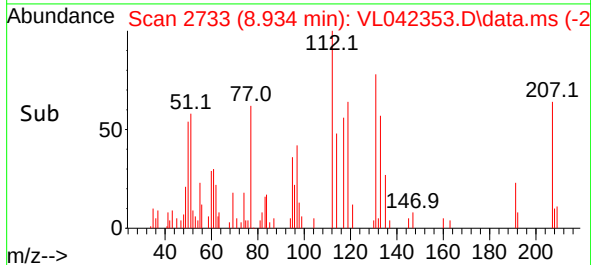
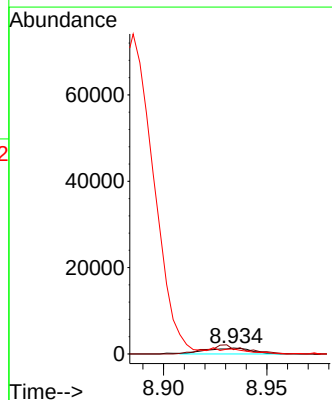
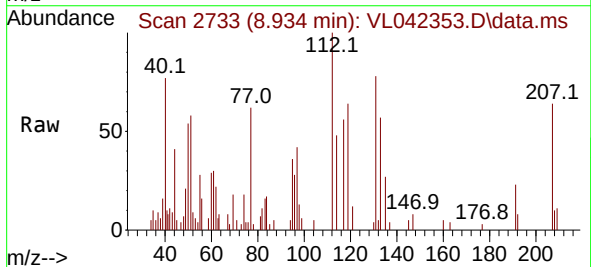
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

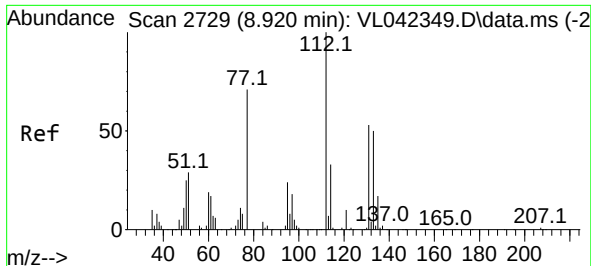
Tgt Ion:117 Resp: 315004
Ion Ratio Lower Upper
117 100
82 68.1 57.8 86.6
119 33.0 25.2 37.8



#56
1,1,1,2-Tetrachloroethane
Concen: 0.107 ppbv
RT: 8.934 min Scan# 2733
Delta R.T. 0.007 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion:131 Resp: 2031
Ion Ratio Lower Upper
131 100
133 134.2 78.3 117.5#
119 0.0 48.7 73.1#

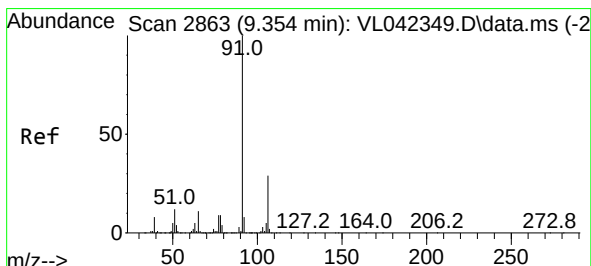
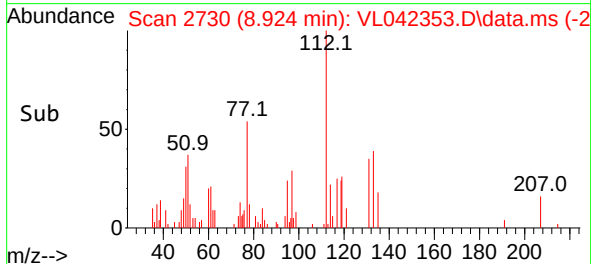
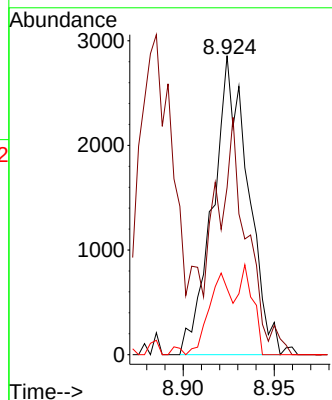
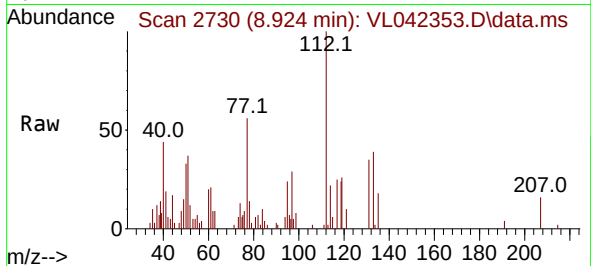




#57
Chlorobenzene
Concen: 0.117 ppbv
RT: 8.924 min Scan# 21
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

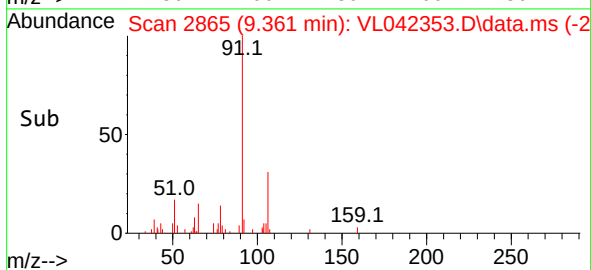
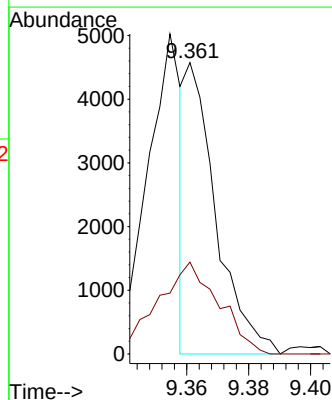
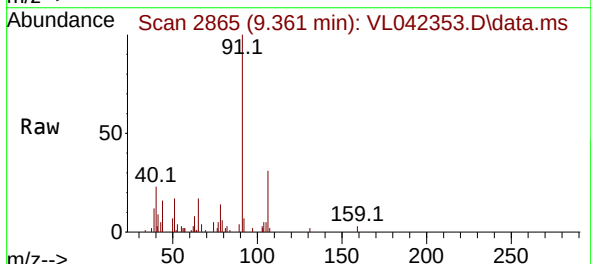
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

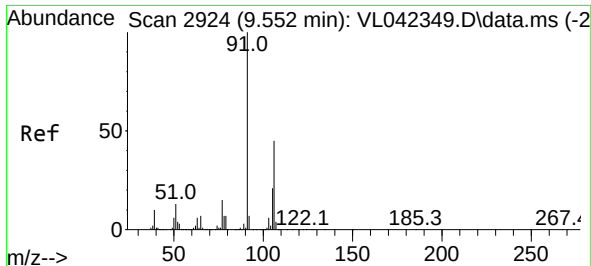
Tgt Ion:112 Resp: 3842
Ion Ratio Lower Upper
112 100
77 50.6 57.8 86.6#
114 22.1 29.3 35.9#



#58
Ethyl Benzene
Concen: 0.050 ppbv
RT: 9.361 min Scan# 2865
Delta R.T. 0.007 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 91 Resp: 3105
Ion Ratio Lower Upper
91 100
106 31.5 23.0 34.4





#59

m/p-Xylene

Concen: 0.096 ppbv

RT: 9.552 min Scan# 2924

Delta R.T. 0.000 min

Lab File: VL042353.D

Acq: 17 Apr 2025 11:50

Instrument :

MSVOA_1

ClientSampleId :

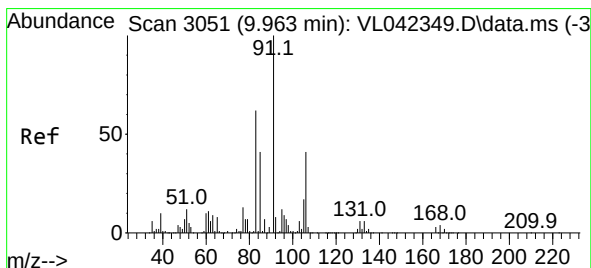
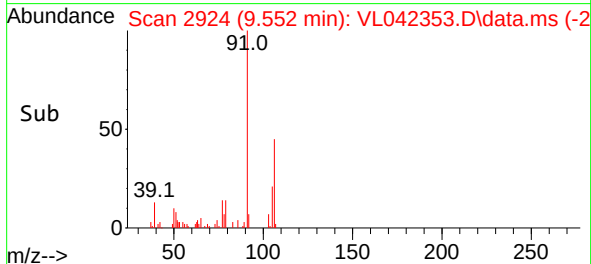
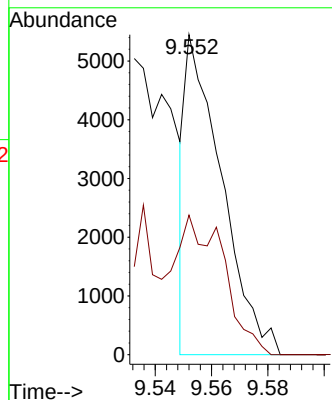
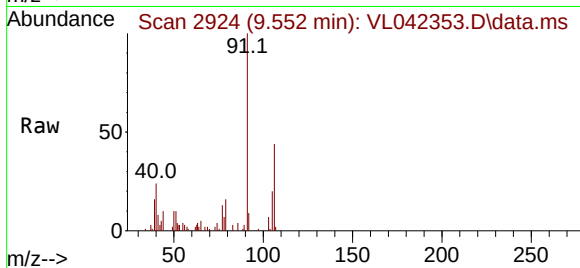
VSTDIC0.1

Tgt Ion: 91 Resp: 4844

Ion Ratio Lower Upper

91 100

106 0.0 35.4 53.2#



#60

o-Xylene

Concen: 0.106 ppbv

RT: 9.970 min Scan# 3053

Delta R.T. 0.007 min

Lab File: VL042353.D

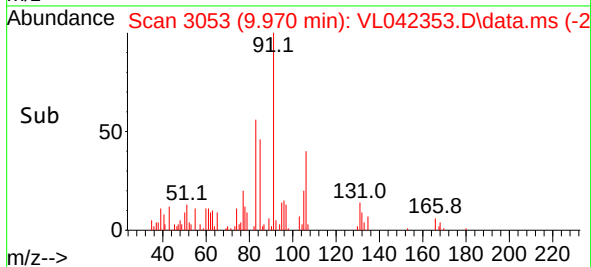
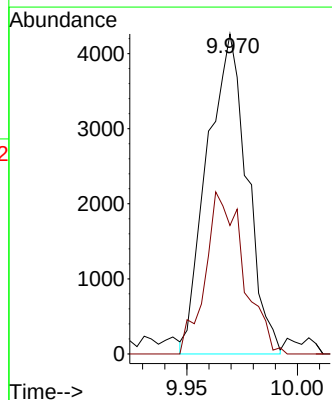
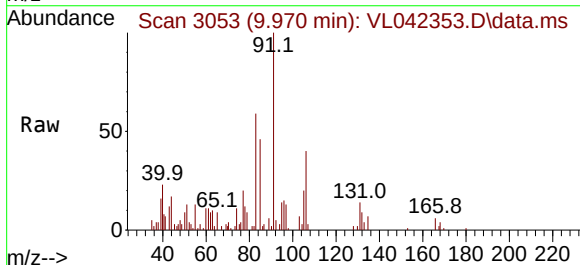
Acq: 17 Apr 2025 11:50

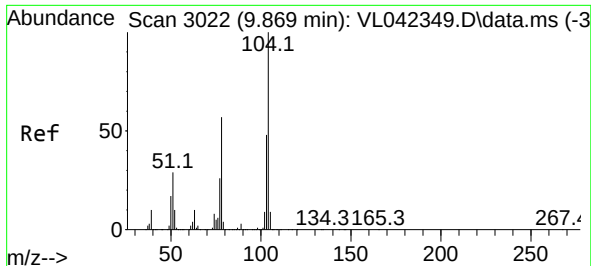
Tgt Ion: 91 Resp: 5359

Ion Ratio Lower Upper

91 100

106 48.3 21.1 63.4

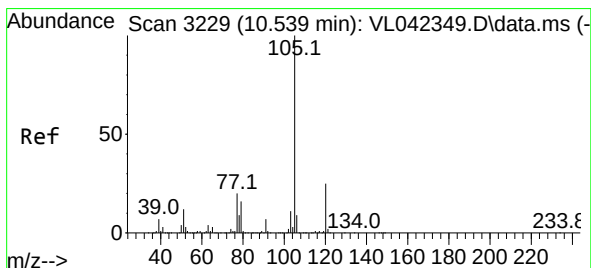
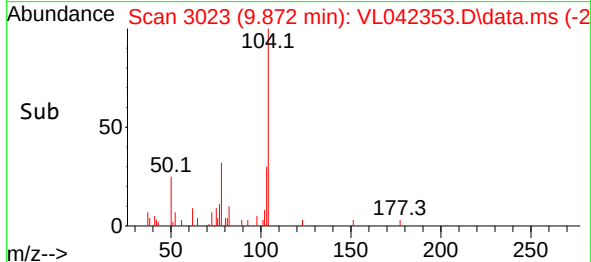
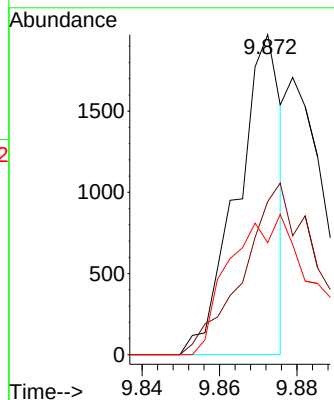
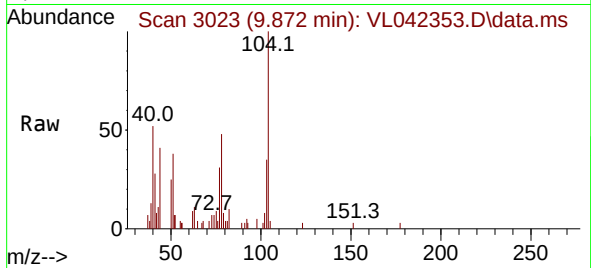




#61
Styrene
Concen: 0.064 ppbv
RT: 9.872 min Scan# 3023
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

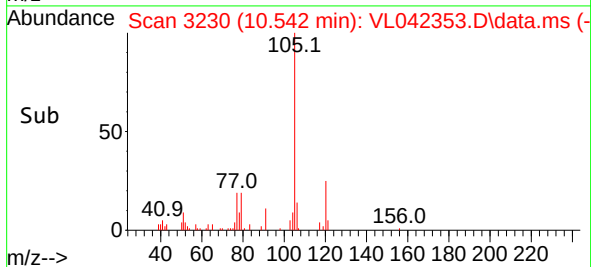
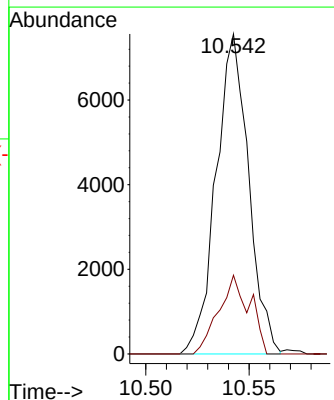
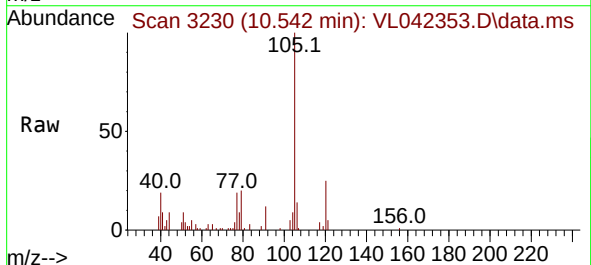
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

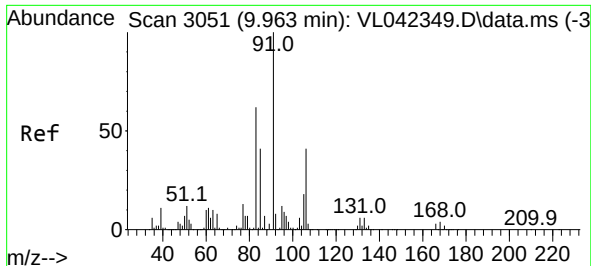
Tgt Ion:104 Resp: 1549
Ion Ratio Lower Upper
104 100
78 0.0 44.6 66.8#
103 0.0 37.4 56.0#



#62
Isopropylbenzene
Concen: 0.111 ppbv
RT: 10.542 min Scan# 3230
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion:105 Resp: 8285
Ion Ratio Lower Upper
105 100
120 23.5 19.8 29.8

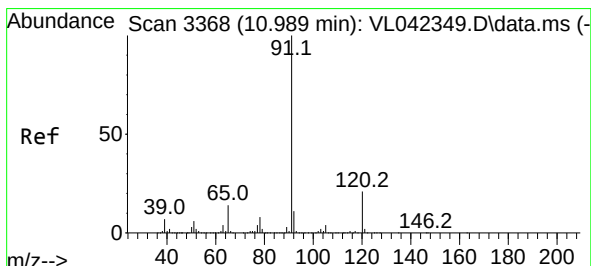
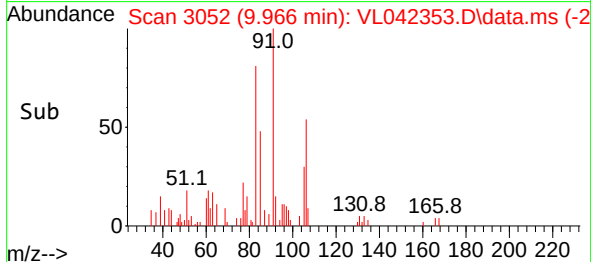
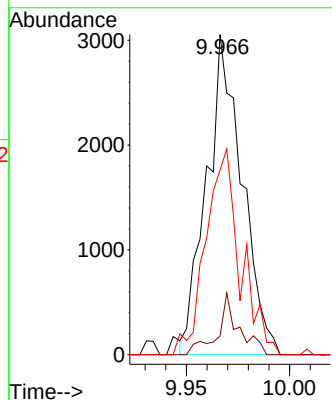
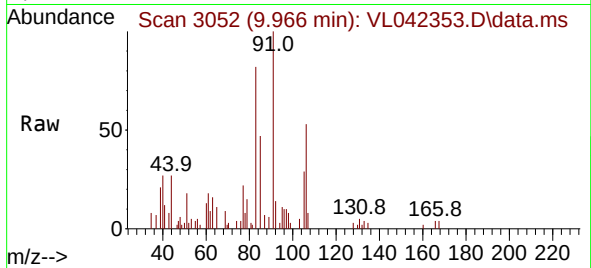




#63
1,1,2,2-Tetrachloroethane
Concen: 0.111 ppbv
RT: 9.966 min Scan# 3051
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

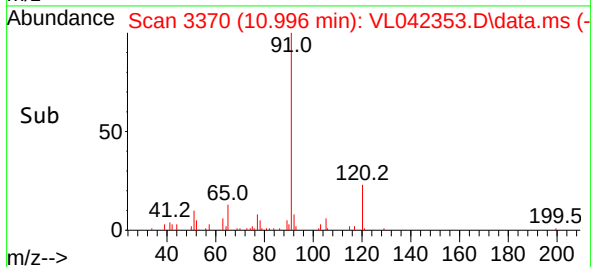
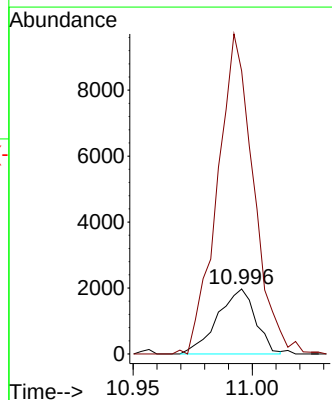
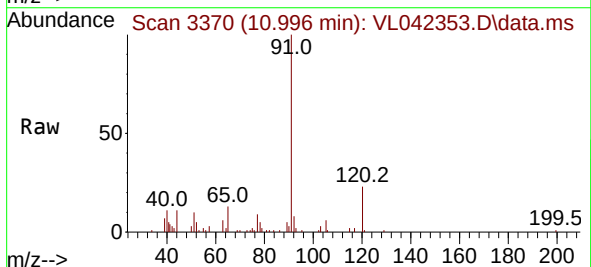
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

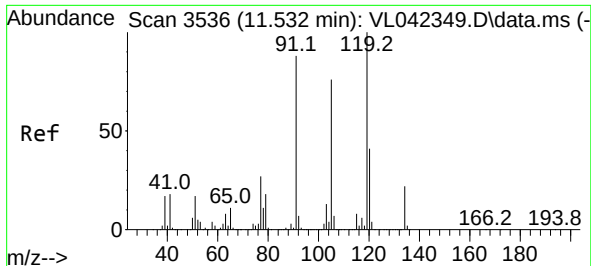
Tgt Ion: 83 Resp: 3646
Ion Ratio Lower Upper
83 100
131 11.4 4.5 13.7
85 62.7 32.4 97.0



#64
n-propylbenzene
Concen: 0.117 ppbv
RT: 10.996 min Scan# 3370
Delta R.T. 0.007 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion:120 Resp: 2186
Ion Ratio Lower Upper
120 100
91 471.4 392.4 588.6

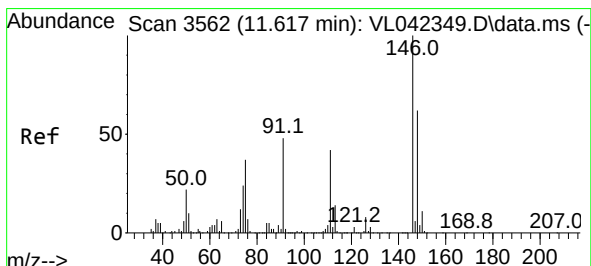
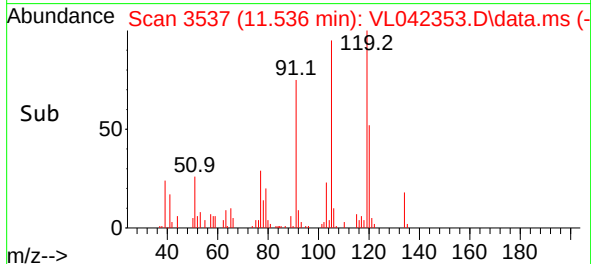
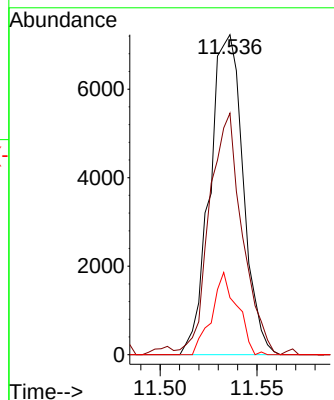
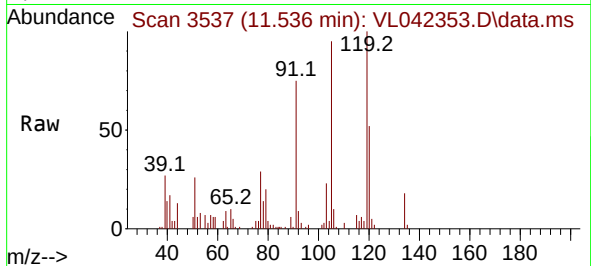




#65
tert-Butylbenzene
Concen: 0.127 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

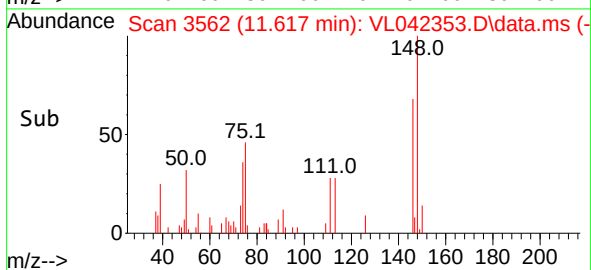
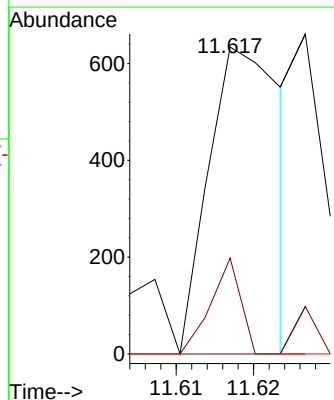
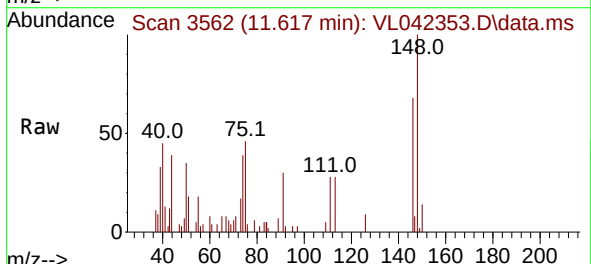
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

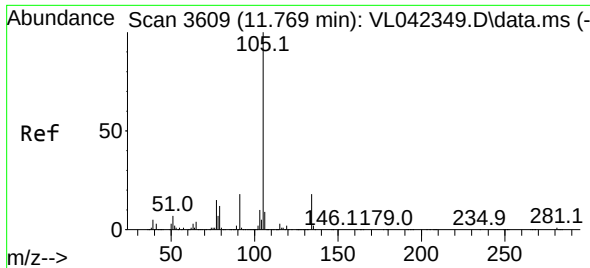
Tgt Ion:119 Resp: 8656
Ion Ratio Lower Upper
119 100
91 77.2 74.6 111.8
134 19.6 18.8 28.2



#66
Benzyl Chloride
Concen: 0.055 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion: 91 Resp: 414
Ion Ratio Lower Upper
91 100
126 23.2 11.8 17.6#
128 0.0 4.5 6.7#

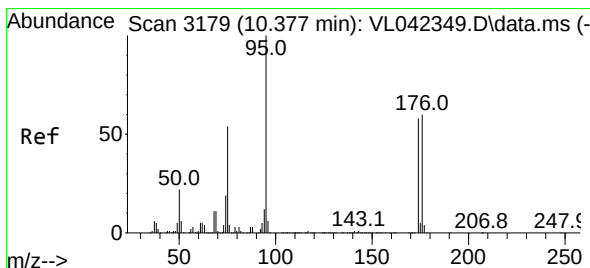
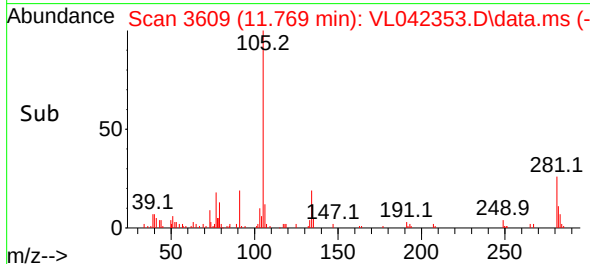
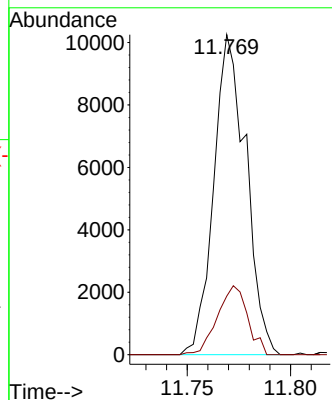
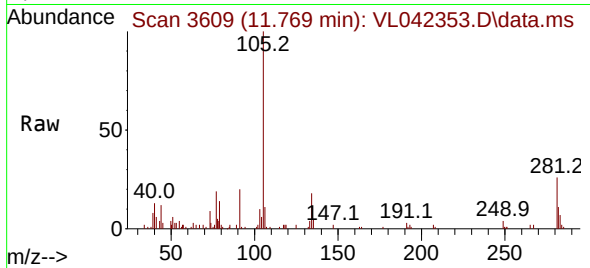




#67
 sec-Butylbenzene
 Concen: 0.117 ppbv
 RT: 11.769 min Scan# 3180
 Delta R.T. 0.000 min
 Lab File: VL042353.D
 Acq: 17 Apr 2025 11:50

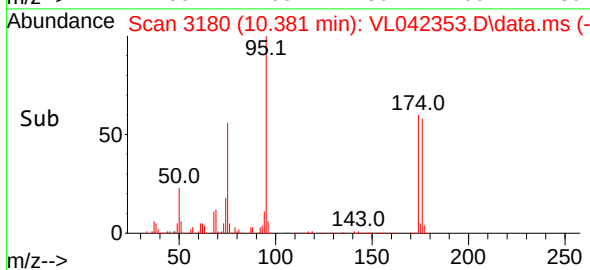
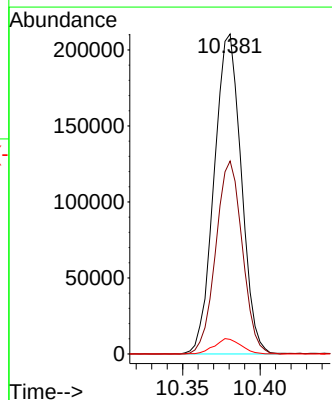
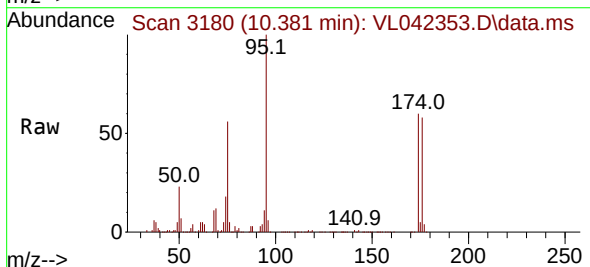
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

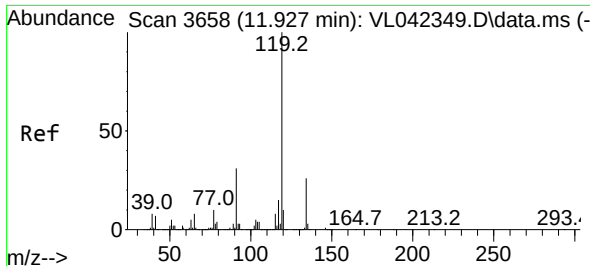
Tgt Ion:105 Resp: 11126
 Ion Ratio Lower Upper
 105 100
 134 20.2 14.6 21.8



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.906 ppbv
 RT: 10.381 min Scan# 3180
 Delta R.T. 0.004 min
 Lab File: VL042353.D
 Acq: 17 Apr 2025 11:50

Tgt Ion: 95 Resp: 256417
 Ion Ratio Lower Upper
 95 100
 174 59.3 48.5 72.7
 175 4.7 3.7 5.5

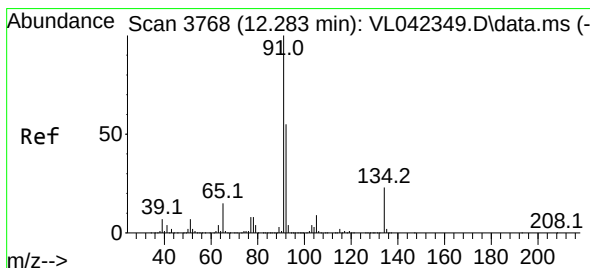
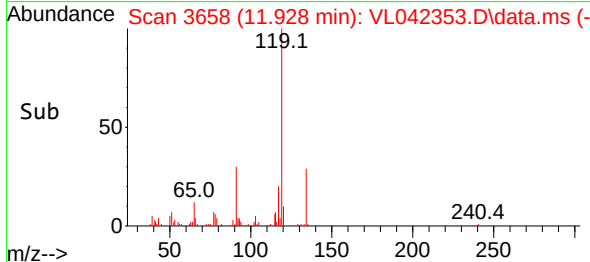
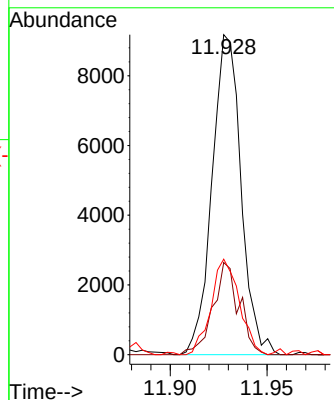
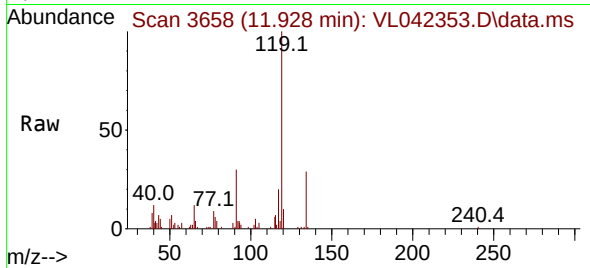




#69
 p-Isopropyltoluene
 Concen: 0.115 ppbv
 RT: 11.928 min Scan# 3658
 Delta R.T. 0.000 min
 Lab File: VL042353.D
 Acq: 17 Apr 2025 11:50

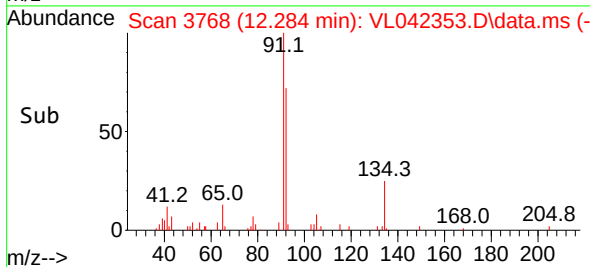
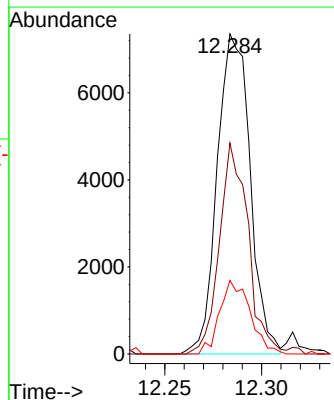
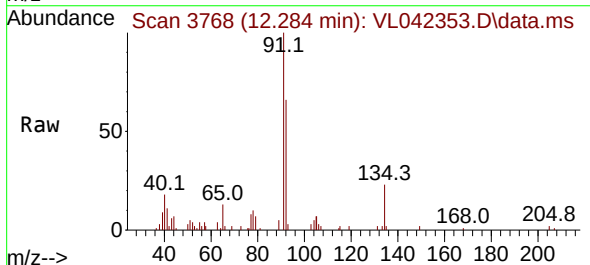
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

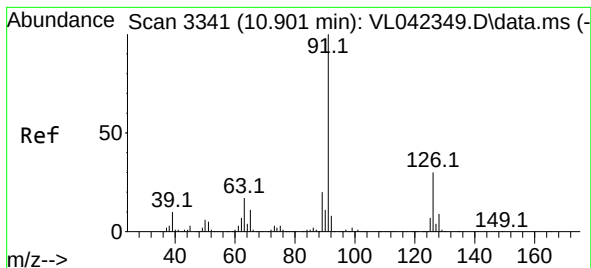
Tgt Ion:	119	Resp:	9534
Ion	Ratio	Lower	Upper
119	100		
134	26.0	20.0	30.0
91	31.6	24.4	36.6



#70
 n-Butylbenzene
 Concen: 0.101 ppbv
 RT: 12.284 min Scan# 3768
 Delta R.T. 0.000 min
 Lab File: VL042353.D
 Acq: 17 Apr 2025 11:50

Tgt Ion:	91	Resp:	8684
Ion	Ratio	Lower	Upper
91	100		
92	58.0	44.2	66.4
134	21.3	18.2	27.4





#71

2-Chlorotoluene

Concen: 0.115 ppbv

RT: 10.905 min Scan# 31

Delta R.T. 0.004 min

Lab File: VL042353.D

Acq: 17 Apr 2025 11:50

Instrument :

MSVOA_1

ClientSampleId :

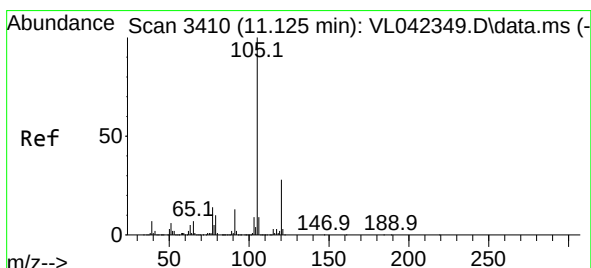
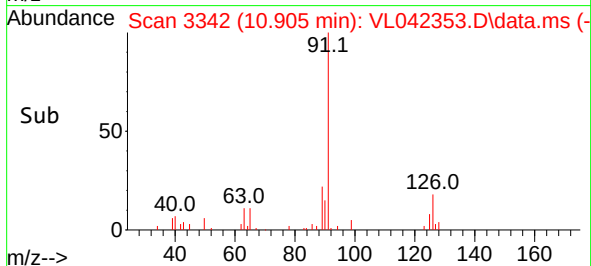
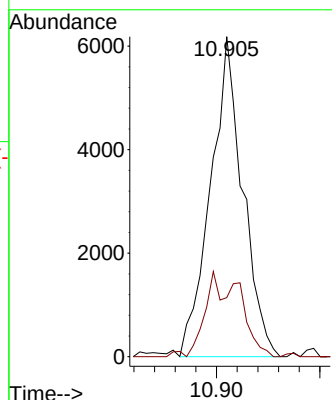
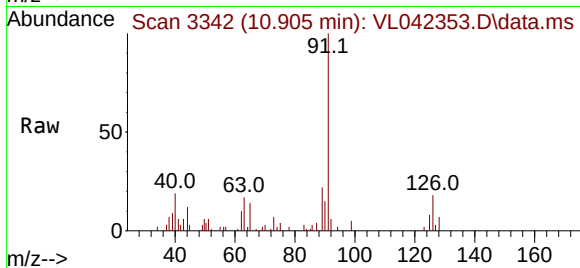
VSTDIC0.1

Tgt Ion: 91 Resp: 6703

Ion Ratio Lower Upper

91 100

126 29.2 11.4 45.4



#72

4-Ethyltoluene

Concen: 0.104 ppbv

RT: 11.128 min Scan# 3411

Delta R.T. 0.004 min

Lab File: VL042353.D

Acq: 17 Apr 2025 11:50

Tgt Ion: 105 Resp: 6463

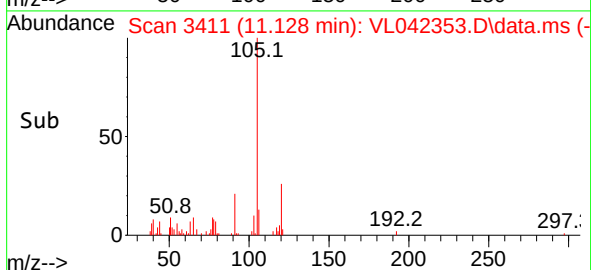
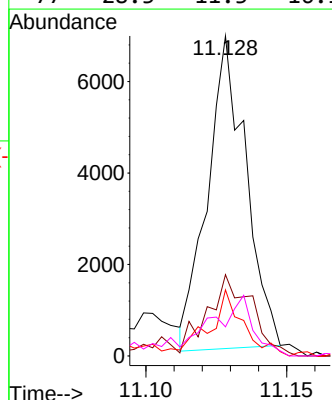
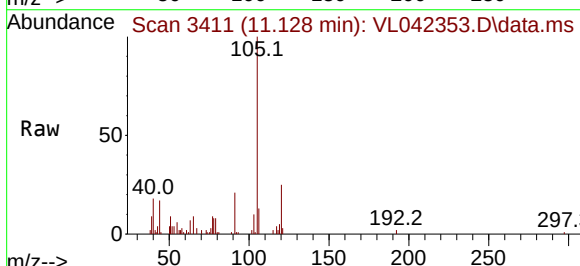
Ion Ratio Lower Upper

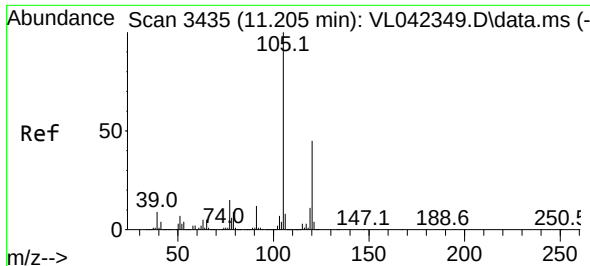
105 100

120 34.1 23.2 34.8

91 24.5 10.4 15.6#

77 28.3 11.3 16.9#

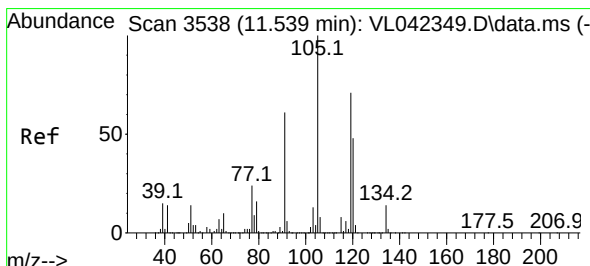
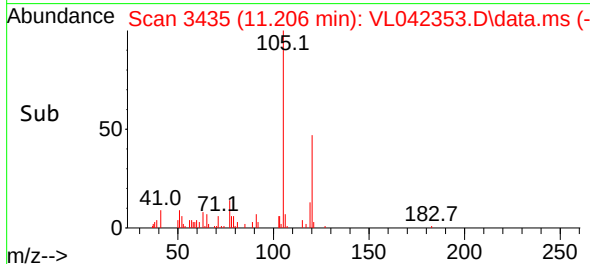
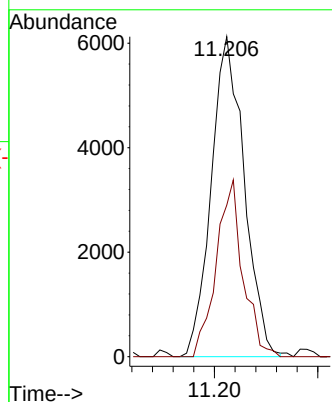
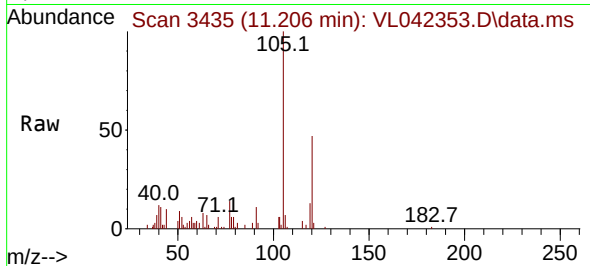




#73
 1,3,5-Trimethylbenzene
 Concen: 0.124 ppbv
 RT: 11.206 min Scan# 3435
 Delta R.T. 0.000 min
 Lab File: VL042353.D
 Acq: 17 Apr 2025 11:50

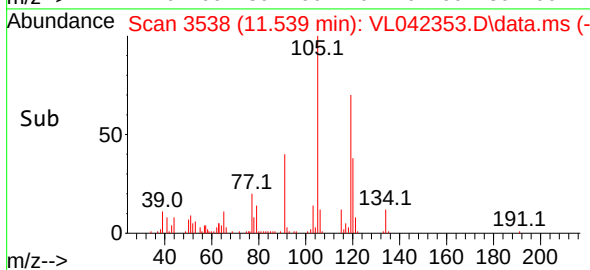
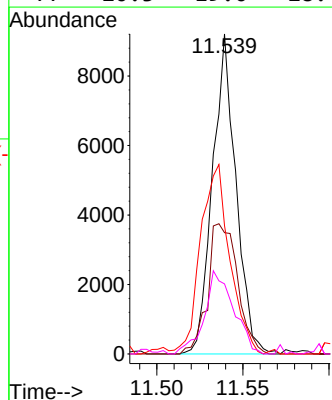
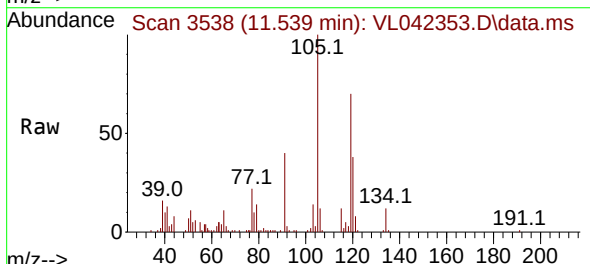
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

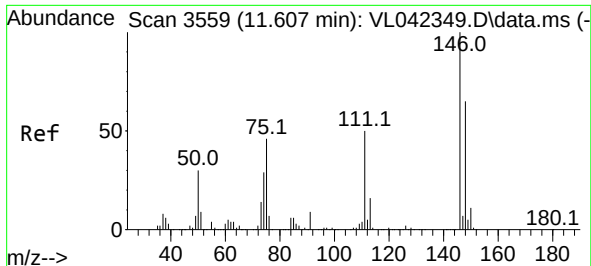
Tgt Ion:105 Resp: 6797
 Ion Ratio Lower Upper
 105 100
 120 47.4 35.6 53.4



#74
 1,2,4-Trimethylbenzene
 Concen: 0.137 ppbv
 RT: 11.539 min Scan# 3538
 Delta R.T. 0.000 min
 Lab File: VL042353.D
 Acq: 17 Apr 2025 11:50

Tgt Ion:105 Resp: 8745
 Ion Ratio Lower Upper
 105 100
 120 37.9 38.1 57.1#
 91 40.1 48.8 73.2#
 77 20.3 19.0 28.4

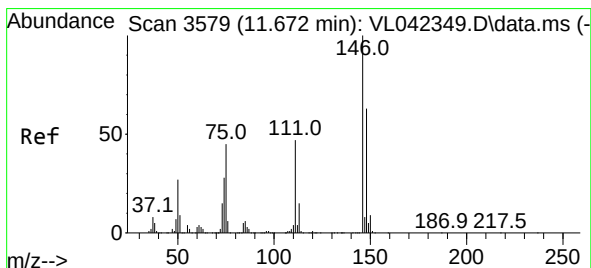
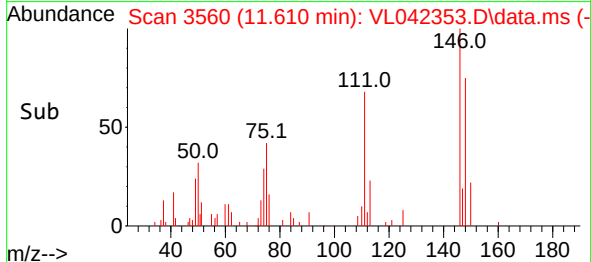
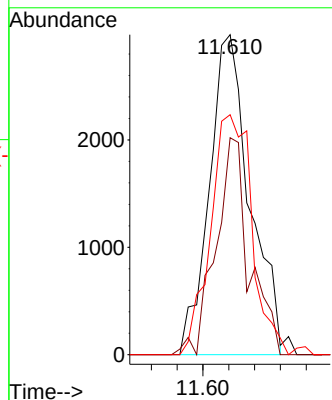
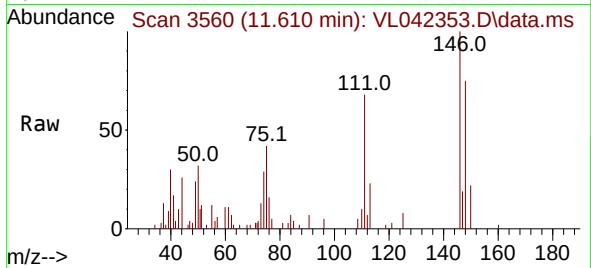




#75
1,3-Dichlorobenzene
Concen: 0.098 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

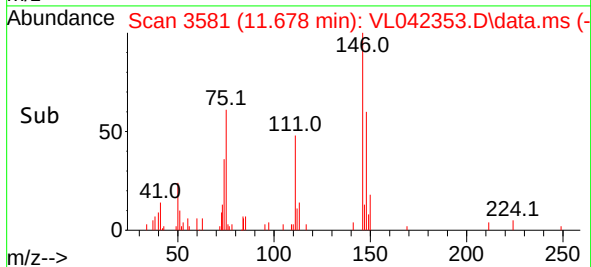
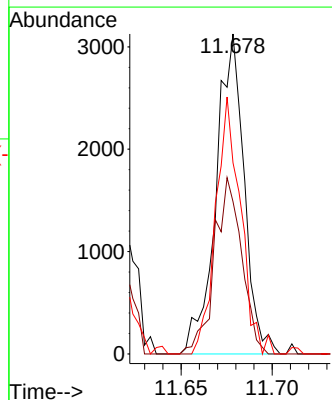
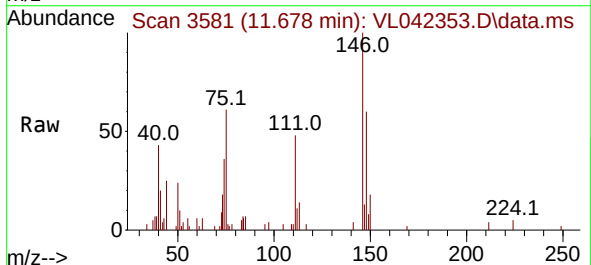
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

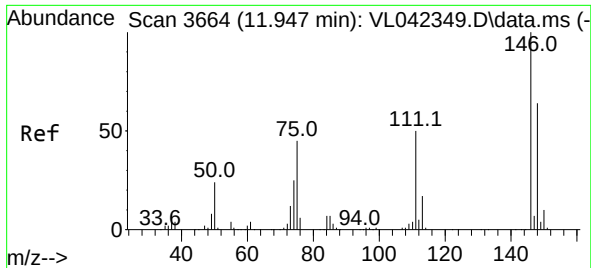
Tgt Ion:146 Resp: 3258
Ion Ratio Lower Upper
146 100
111 55.9 24.3 72.8
148 77.0 31.6 94.8



#76
1,4-Dichlorobenzene
Concen: 0.101 ppbv
RT: 11.678 min Scan# 3581
Delta R.T. 0.007 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion:146 Resp: 3366
Ion Ratio Lower Upper
146 100
111 53.5 24.2 72.6
148 71.3 32.1 96.5

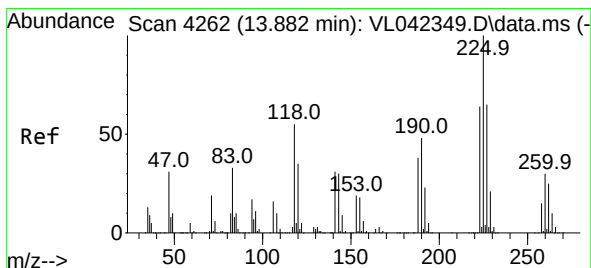
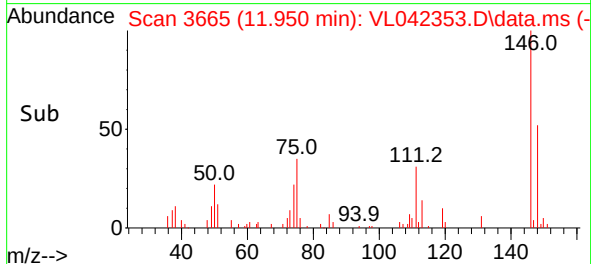
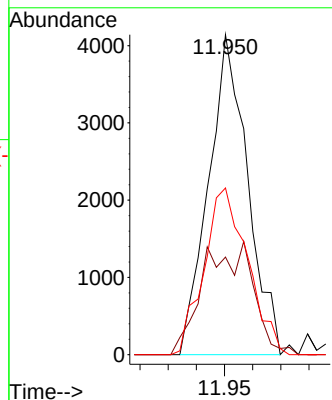
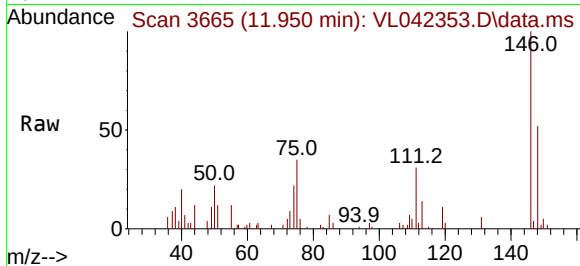




#77
1,2-Dichlorobenzene
Concen: 0.124 ppbv
RT: 11.950 min Scan# 3665
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

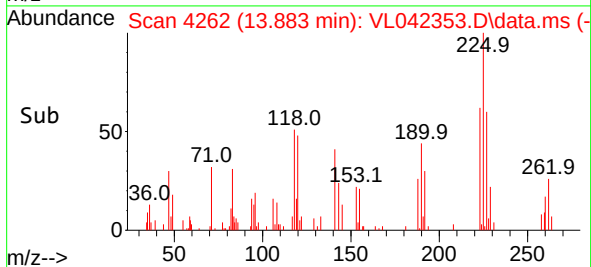
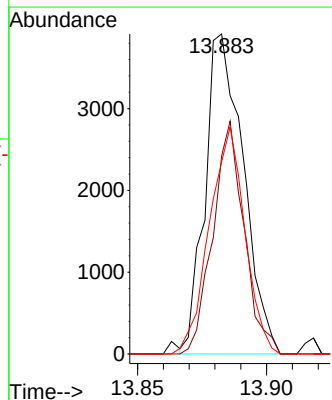
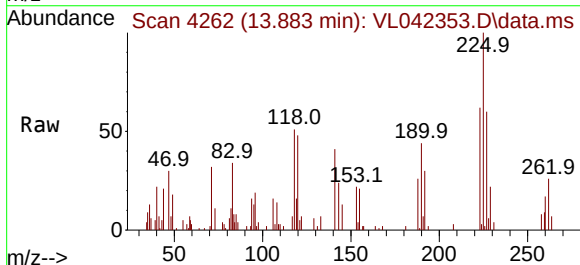
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

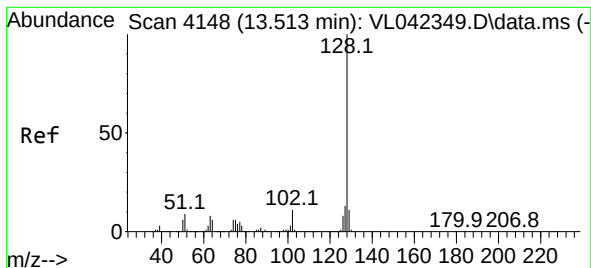
Tgt Ion:146	Resp:	3996	
Ion	Ratio	Lower	Upper
146	100		
111	45.1	25.3	75.9
148	58.1	31.5	94.5



#78
Hexachloro-1,3-Butadiene
Concen: 0.124 ppbv
RT: 13.883 min Scan# 4262
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Tgt Ion:225	Resp:	4030	
Ion	Ratio	Lower	Upper
225	100		
223	59.5	50.3	75.5
227	65.9	51.5	77.3





#79

Naphthalene

Concen: 0.100 ppbv

RT: 13.517 min Scan# 4148

Delta R.T. 0.004 min

Lab File: VL042353.D

Acq: 17 Apr 2025 11:50

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

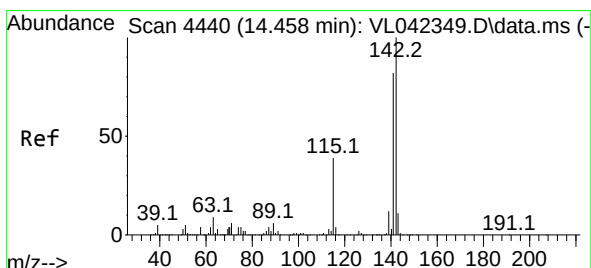
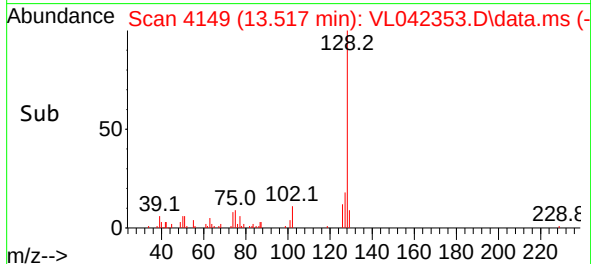
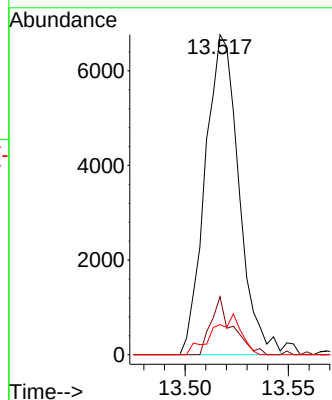
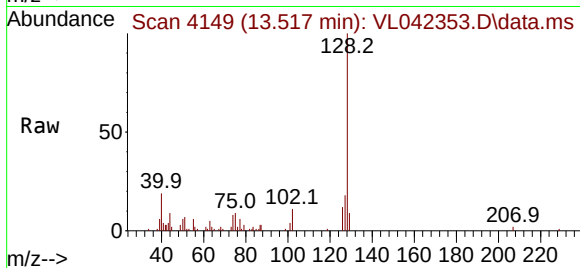
Tgt Ion:128 Resp: 7664

Ion Ratio Lower Upper

128 100

127 18.1 10.6 15.8#

129 9.4 8.6 12.8



#80

Naphthalene,2-methyl-

Concen: 0.077 ppbv

RT: 14.468 min Scan# 4443

Delta R.T. 0.010 min

Lab File: VL042353.D

Acq: 17 Apr 2025 11:50

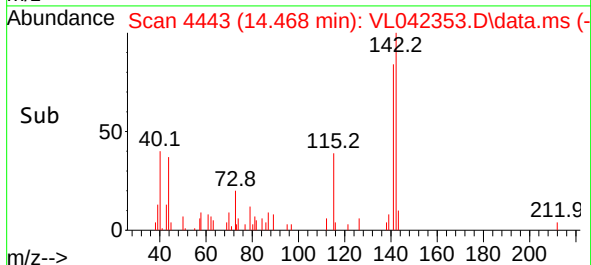
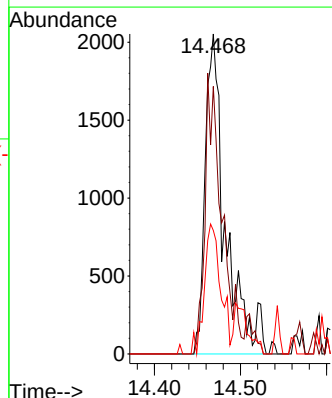
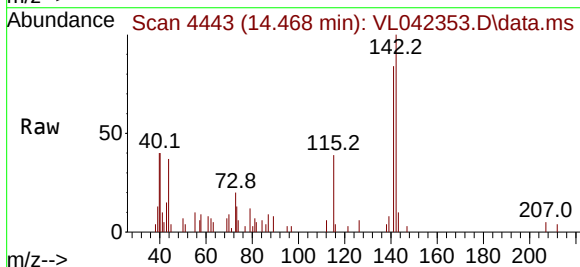
Tgt Ion:142 Resp: 3339

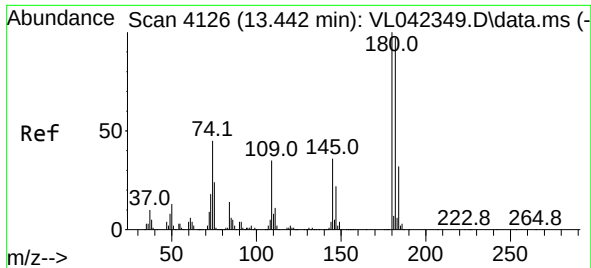
Ion Ratio Lower Upper

142 100

141 78.4 66.8 100.2

115 33.1 33.4 50.2#





#81

1,2,4-Trichlorobenzene

Concen: 0.069 ppbv

RT: 13.442 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL042353.D

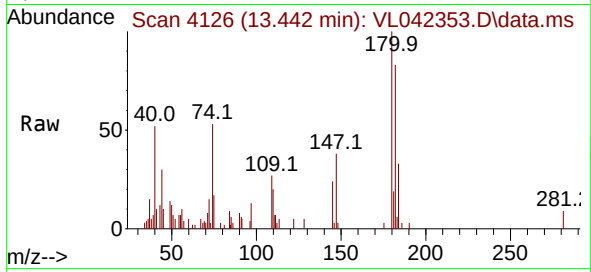
Acq: 17 Apr 2025 11:50

Instrument :

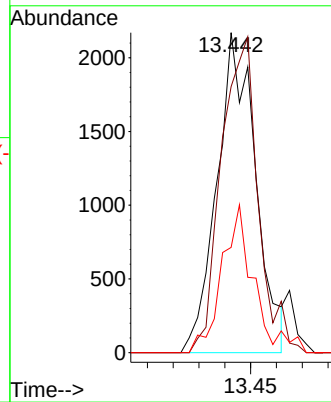
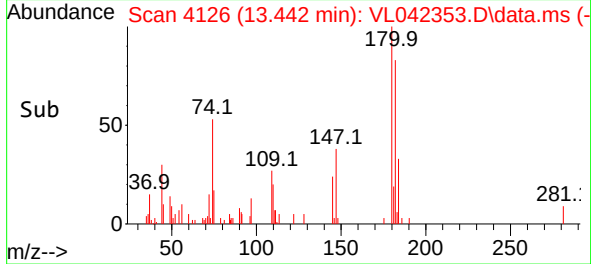
MSVOA_L

ClientSampleId :

VSTDIC0.1



Tgt Ion:	180	Resp:	2245
Ion Ratio	Lower	Upper	
180	100		
182	94.3	76.8	115.2
184	38.4	24.6	36.8#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042354.D
 Acq On : 17 Apr 2025 12:22
 Operator : SY/MD
 Sample : VSTDICC0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03

Quant Time: Apr 18 02:07:48 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 01:24:29 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	120042	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	349264	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	312999	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	256230	9.962	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.600%

Target Compounds						Qvalue
3) Chlorodifluoromethane	1.479	51	1404	0.070	ppbv #	78
4) Chloromethane	1.534	50	773	0.092	ppbv #	72
5) Vinyl Chloride	1.583	62	361	0.040	ppbv #	76
6) Bromomethane	1.667	94	232	0.059	ppbv #	8
7) Chloroethane	1.699	64	237	0.072	ppbv #	46
8) Dichlorotetrafluoroethane	1.554	85	823	0.045	ppbv	95
9) Propene	1.486	41	508	0.055	ppbv #	15
10) Heptane	4.981	43	435	0.018	ppbv #	1
12) 1,1,2-Trichlorotrifluo...	2.143	101	793	0.048	ppbv #	73
13) Ethanol	1.434	45	60931	81.065	ppbv	74
14) Bromoethene	1.787	108	207	0.033	ppbv #	1
15) Acetone	1.839	43	3597	0.183	ppbv #	89
16) 1,3-Butadiene	1.609	39	573	0.062	ppbv #	1
17) tert-Butyl alcohol	2.049	59	991	0.041	ppbv #	1
18) 1,1-Dichloroethene	2.036	96	455	0.057	ppbv #	43
19) Isopropyl Alcohol	1.434	45	60931	5.582	ppbv #	33
20) Methylene Chloride	2.065	84	2904	0.377	ppbv	86
21) Allyl Chloride	2.097	41	1132	0.083	ppbv #	1
22) trans-1,2-Dichloroethene	2.340	96	287	0.033	ppbv #	32
23) Vinyl Acetate	2.466	43	490	0.062	ppbv #	86
24) 1,1-Dichloroethane	2.415	63	1030	0.062	ppbv #	74
25) Ethyl Acetate	2.835	43	2744	0.057	ppbv #	75
26) Hexane	2.832	57	2398	0.122	ppbv #	65
27) Carbon Disulfide	2.152	76	984	0.047	ppbv #	1
28) Methyl tert-Butyl Ether	2.447	73	426	0.033	ppbv #	48
30) Cyclohexane	3.855	84	311	0.020	ppbv #	1
31) cis-1,2-Dichloroethene	2.725	61	831	0.045	ppbv #	86
32) 1,1,1-Trichloroethane	3.373	97	809	0.027	ppbv #	52
34) 2-Butanone	2.564	43	510	0.018	ppbv #	53
35) Carbon Tetrachloride	3.768	117	862	0.027	ppbv #	45
36) Benzene	3.667	78	1629	0.043	ppbv #	75
38) Trichloroethene	4.557	130	271	0.016	ppbv #	27
39) 1,2-Dichloropropane	3.965	63	90827	6.465	ppbv #	22
40) 1,4-Dioxane	4.625	88	139	0.018	ppbv #	1
42) Bromodichloromethane	4.496	83	1093	0.035	ppbv #	82
43) Methyl Methacrylate	4.891	69	354	0.021	ppbv #	3
44) 2,2,4-Trimethylpentane	4.641	57	1377	0.021	ppbv #	1
45) t-1,3-Dichloropropene	6.415	75	183	0.011	ppbv	100
46) cis-1,3-Dichloropropene	5.606	75	546	0.026	ppbv #	37
47) 1,1,2-Trichloroethane	6.590	97	225	0.016	ppbv #	40
48) Dibromochloromethane	7.399	129	258	0.010	ppbv #	10
49) Bromoform	9.493	173	285	0.013	ppbv #	1
53) Toluene	6.943	91	464	0.010	ppbv #	1

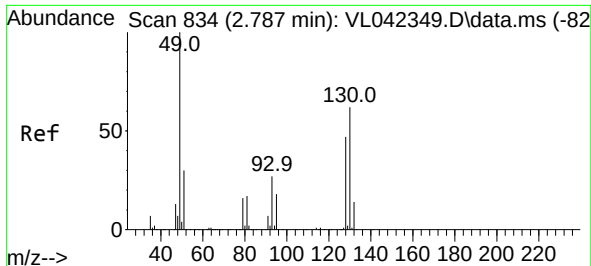
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042354.D
 Acq On : 17 Apr 2025 12:22
 Operator : SY/MD
 Sample : VSTDICC0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03

Quant Time: Apr 18 02:07:48 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 01:24:29 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
54) 1,2-Dibromoethane	7.668	107	422	0.021	ppbv	#	12
56) 1,1,1,2-Tetrachloroethane	8.927	131	589	0.031	ppbv	#	1
57) Chlorobenzene	8.920	112	567	0.017	ppbv	#	74
59) m/p-Xylene	9.555	91	1648	0.033	ppbv	#	32
60) o-Xylene	9.966	91	1938	0.039	ppbv		84
61) Styrene	9.875	104	813	0.034	ppbv		93
62) Isopropylbenzene	10.542	105	2934	0.040	ppbv		92
63) 1,1,2,2-Tetrachloroethane	9.966	83	826	0.025	ppbv	#	58
65) tert-Butylbenzene	11.536	119	2656	0.039	ppbv		90
66) Benzyl Chloride	11.620	91	130	0.017	ppbv	#	70
67) sec-Butylbenzene	11.772	105	3658	0.039	ppbv	#	85
69) p-Isopropyltoluene	11.930	119	3139	0.038	ppbv		94
70) n-Butylbenzene	12.290	91	2516	0.029	ppbv	#	81
71) 2-Chlorotoluene	10.901	91	2537	0.044	ppbv		99
72) 4-Ethyltoluene	11.128	105	2221	0.036	ppbv	#	69
73) 1,3,5-Trimethylbenzene	11.212	105	2473	0.046	ppbv	#	86
74) 1,2,4-Trimethylbenzene	11.539	105	4320	0.068	ppbv	#	80
75) 1,3-Dichlorobenzene	11.613	146	1056	0.032	ppbv		91
76) 1,4-Dichlorobenzene	11.671	146	1180	0.036	ppbv		95
77) 1,2-Dichlorobenzene	11.671	146	1180	0.037	ppbv		93
78) Hexachloro-1,3-Butadiene	13.889	225	1879	0.058	ppbv		92
79) Naphthalene	13.516	128	2354	0.031	ppbv	#	84
80) Naphthalene,2-methyl-	14.468	142	594	0.014	ppbv	#	52
81) 1,2,4-Trichlorobenzene	13.445	180	614	0.019	ppbv	#	71

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 2.790 min Scan# 81

Delta R.T. 0.003 min

Lab File: VL042354.D

Acq: 17 Apr 2025 12:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

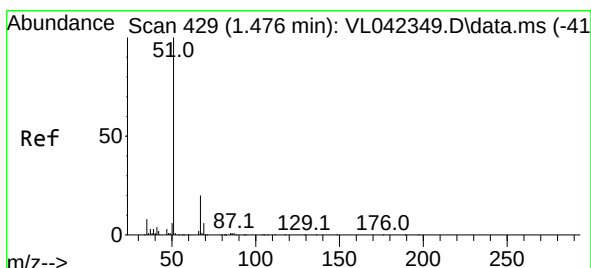
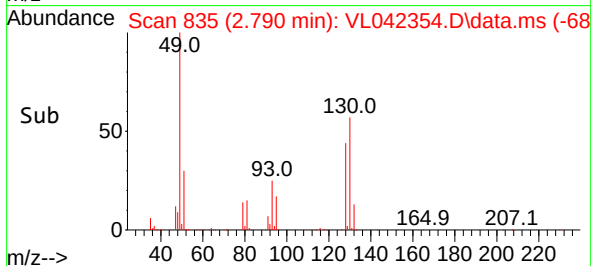
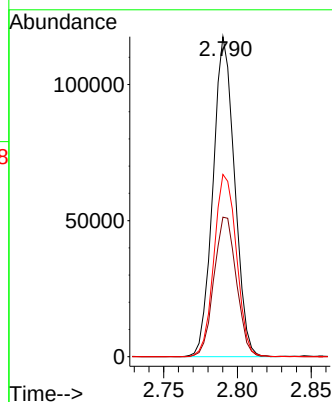
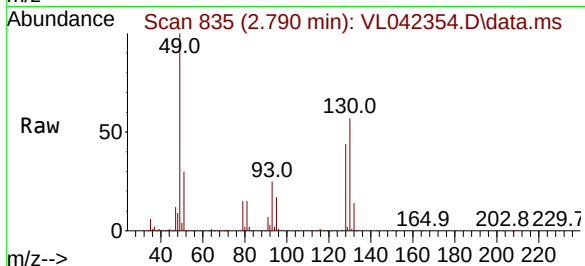
Tgt Ion: 49 Resp: 120042

Ion Ratio Lower Upper

49 100

128 45.3 22.8 68.4

130 59.0 29.3 88.0



#3

Chlorodifluoromethane

Concen: 0.070 ppbv

RT: 1.479 min Scan# 430

Delta R.T. 0.003 min

Lab File: VL042354.D

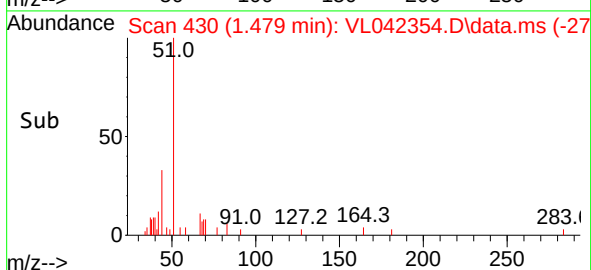
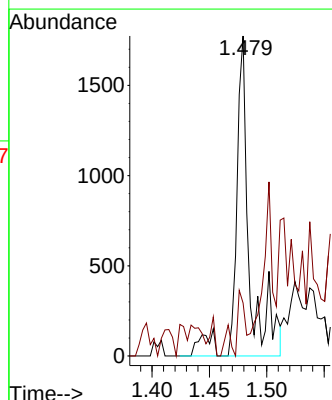
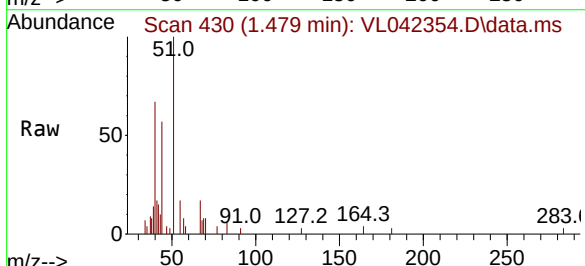
Acq: 17 Apr 2025 12:22

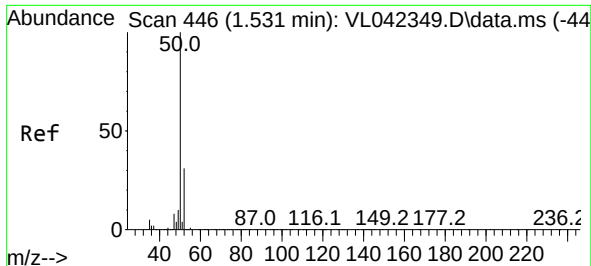
Tgt Ion: 51 Resp: 1404

Ion Ratio Lower Upper

51 100

67 30.7 16.2 24.4#

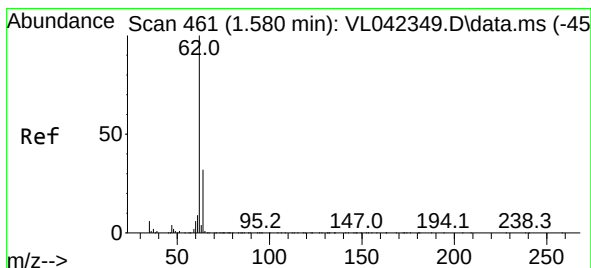
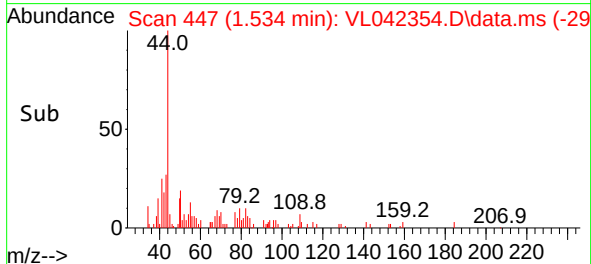
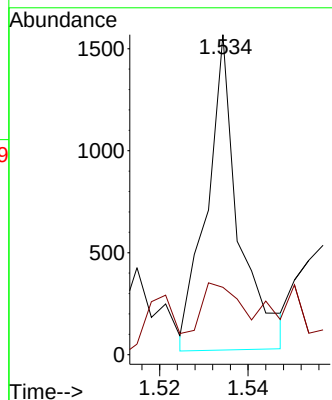
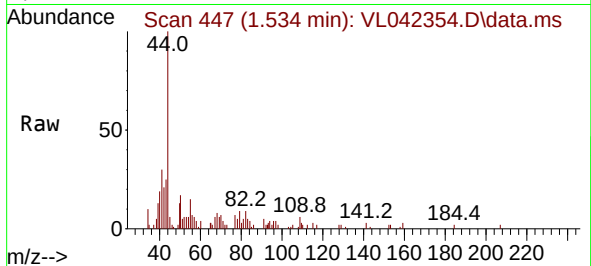




#4
Chloromethane
Concen: 0.092 ppbv
RT: 1.534 min Scan# 446
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

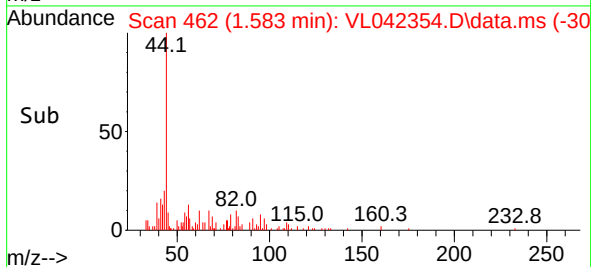
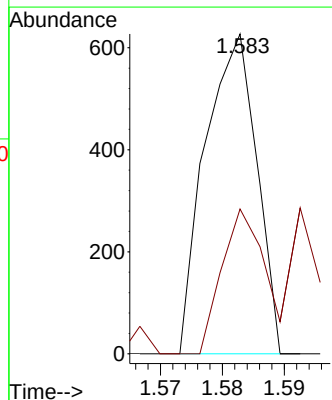
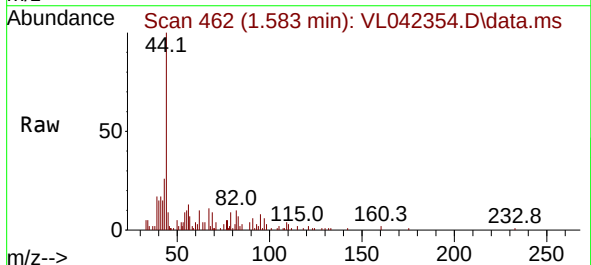
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

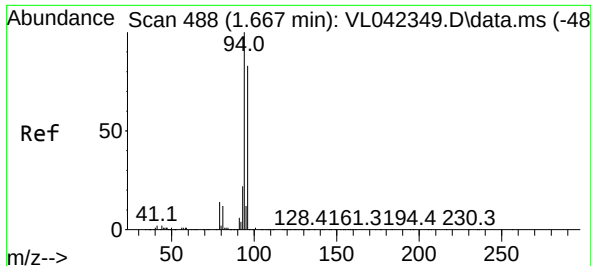
Tgt Ion: 50 Resp: 773
Ion Ratio Lower Upper
50 100
52 15.3 24.7 37.1#



#5
Vinyl Chloride
Concen: 0.040 ppbv
RT: 1.583 min Scan# 462
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 62 Resp: 361
Ion Ratio Lower Upper
62 100
64 45.3 25.4 38.0#

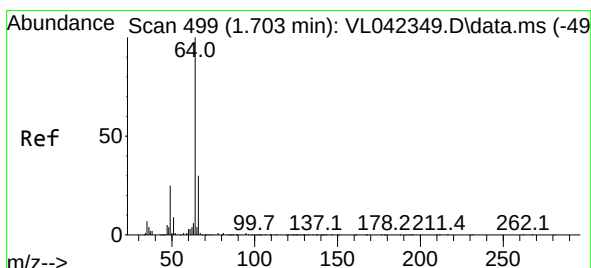
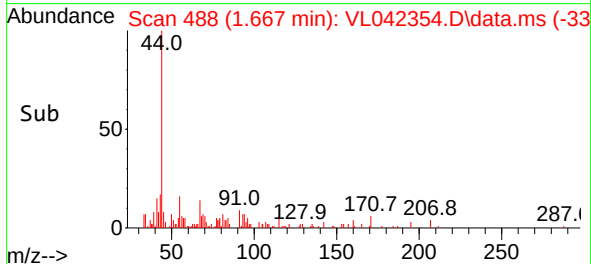
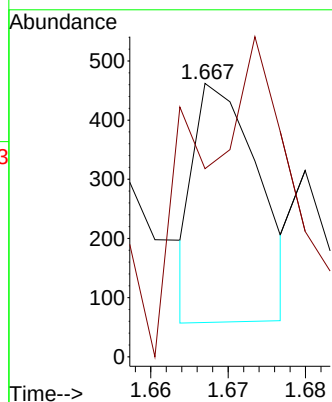
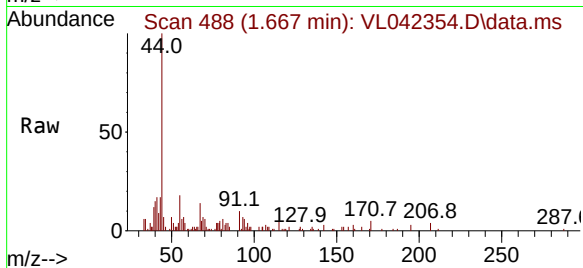




#6
Bromomethane
Concen: 0.059 ppbv
RT: 1.667 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

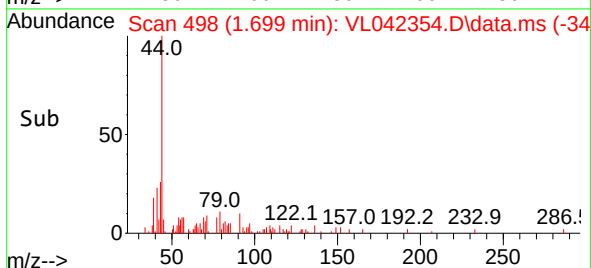
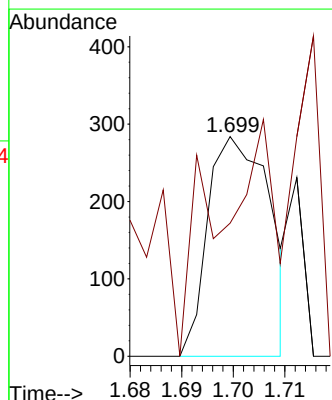
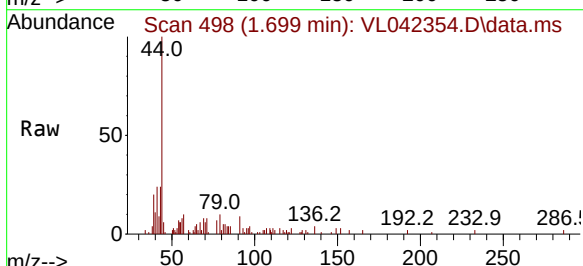
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

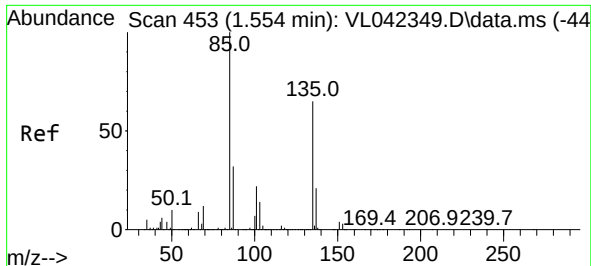
Tgt Ion: 94 Resp: 232
Ion Ratio Lower Upper
94 100
96 0.0 66.2 99.2#



#7
Chloroethane
Concen: 0.072 ppbv
RT: 1.699 min Scan# 498
Delta R.T. -0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 64 Resp: 237
Ion Ratio Lower Upper
64 100
66 60.6 24.6 37.0#

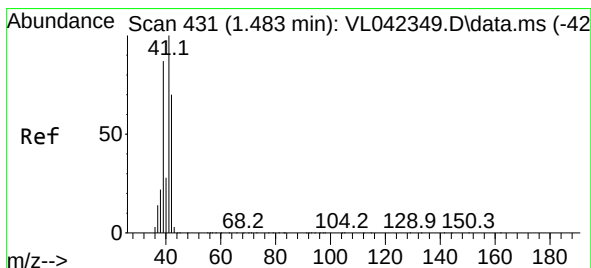
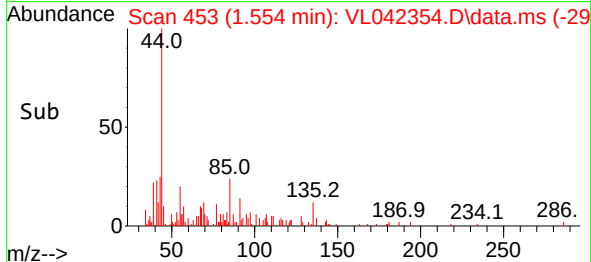
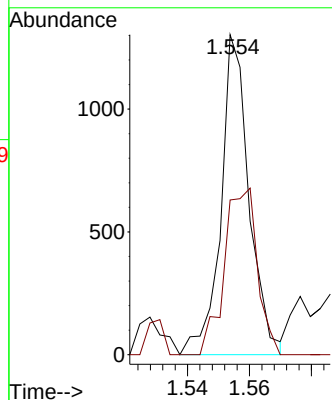
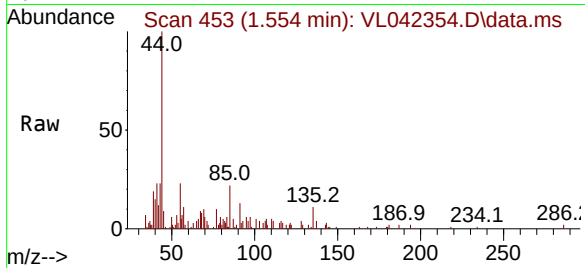




#8
Dichlorotetrafluoroethane
Concen: 0.045 ppbv
RT: 1.554 min Scan# 411
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

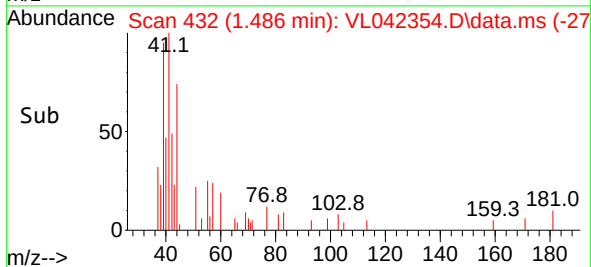
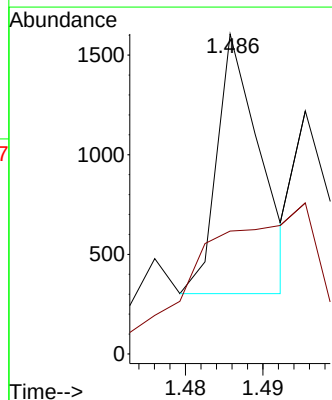
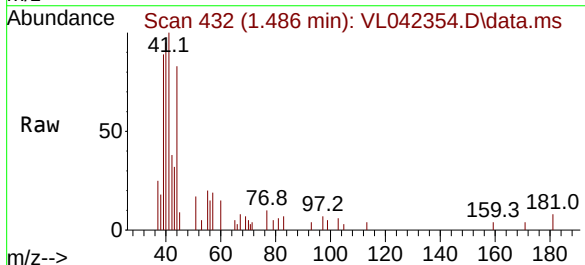
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

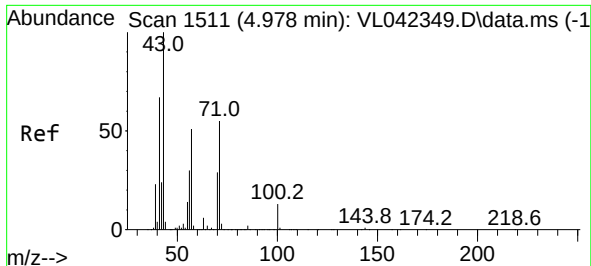
Tgt Ion: 85 Resp: 823
Ion Ratio Lower Upper
85 100
135 69.1 52.2 78.2



#9
Propene
Concen: 0.055 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 41 Resp: 508
Ion Ratio Lower Upper
41 100
42 0.0 56.2 84.4#

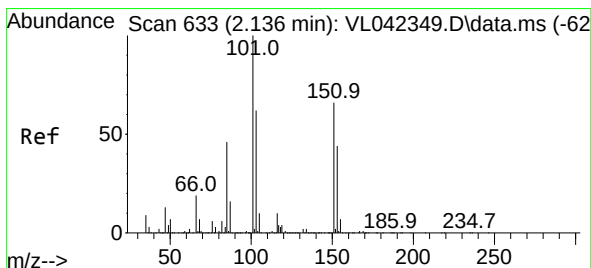
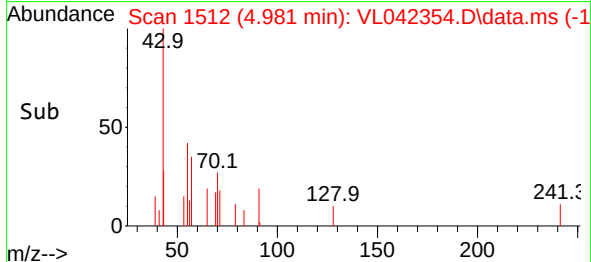
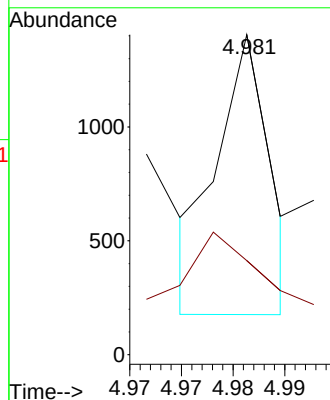
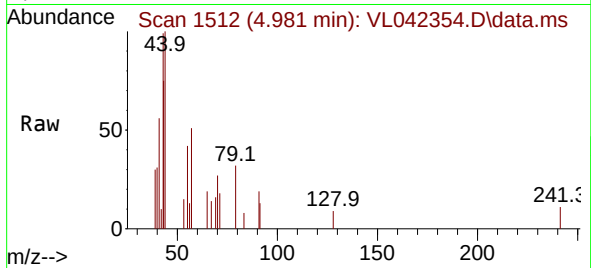




#10
 Heptane
 Concen: 0.018 ppbv
 RT: 4.981 min Scan# 11
 Delta R.T. 0.003 min
 Lab File: VL042354.D
 Acq: 17 Apr 2025 12:22

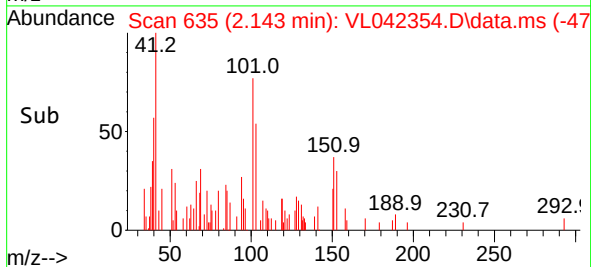
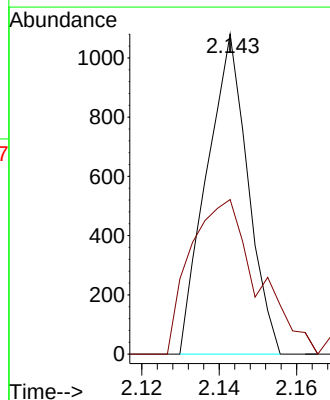
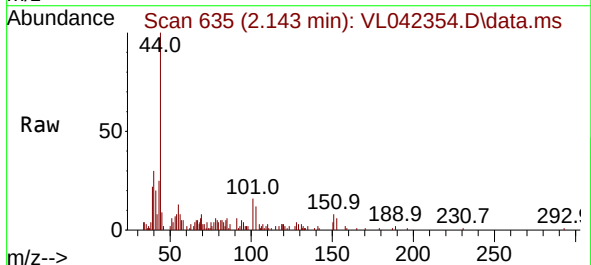
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

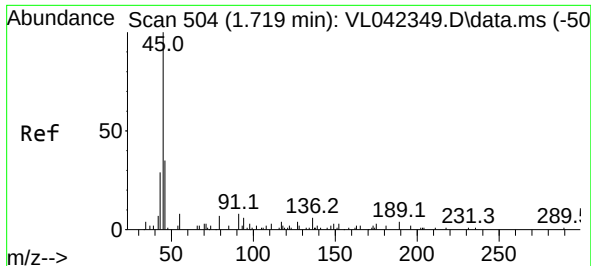
Tgt Ion: 43 Resp: 435
 Ion Ratio Lower Upper
 43 100
 57 283.4 39.9 59.9#



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.048 ppbv
 RT: 2.143 min Scan# 635
 Delta R.T. 0.006 min
 Lab File: VL042354.D
 Acq: 17 Apr 2025 12:22

Tgt Ion: 101 Resp: 793
 Ion Ratio Lower Upper
 101 100
 151 93.3 57.0 85.6#

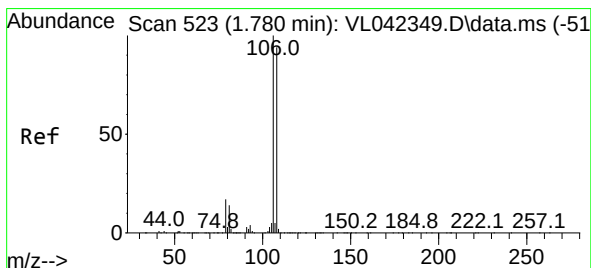
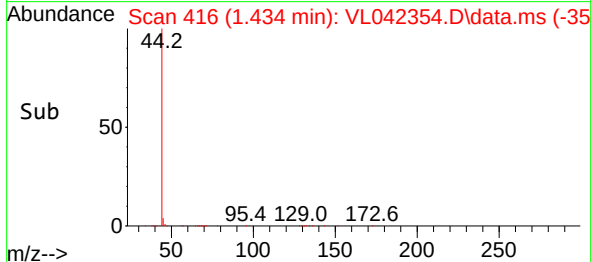
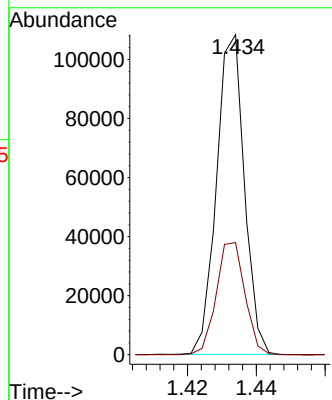
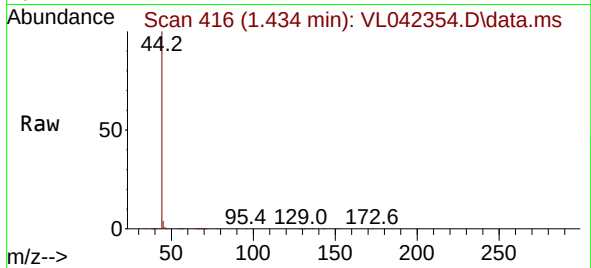




#13
 Ethanol
 Concen: 81.065 ppbv
 RT: 1.434 min Scan# 416
 Delta R.T. -0.285 min
 Lab File: VL042354.D
 Acq: 17 Apr 2025 12:22

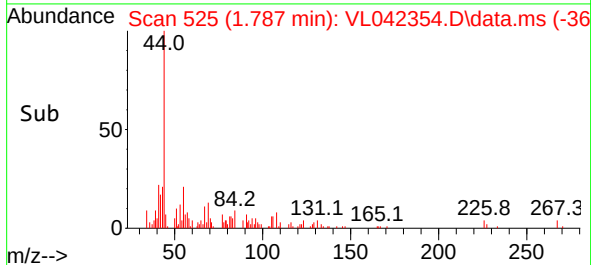
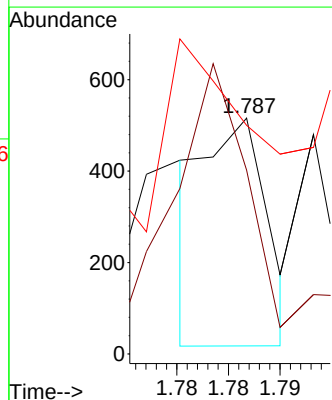
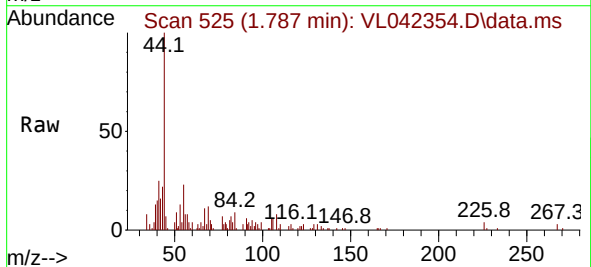
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

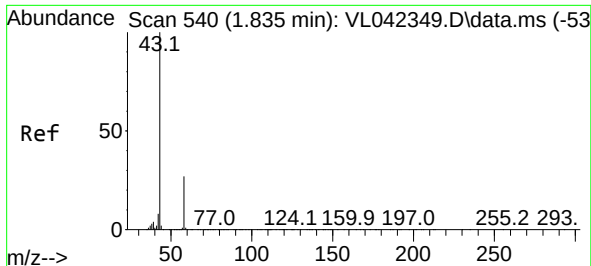
Tgt Ion: 45 Resp: 60931
 Ion Ratio Lower Upper
 45 100
 46 36.1 21.9 87.7



#14
 Bromoethene
 Concen: 0.033 ppbv
 RT: 1.787 min Scan# 525
 Delta R.T. 0.006 min
 Lab File: VL042354.D
 Acq: 17 Apr 2025 12:22

Tgt Ion: 108 Resp: 207
 Ion Ratio Lower Upper
 108 100
 106 248.3 85.9 128.9#
 79 0.0 13.9 20.9#





#15

Acetone

Concen: 0.183 ppbv

RT: 1.839 min Scan# 54

Delta R.T. 0.003 min

Lab File: VL042354.D

Acq: 17 Apr 2025 12:22

Instrument :

MSVOA_L

ClientSampleId :

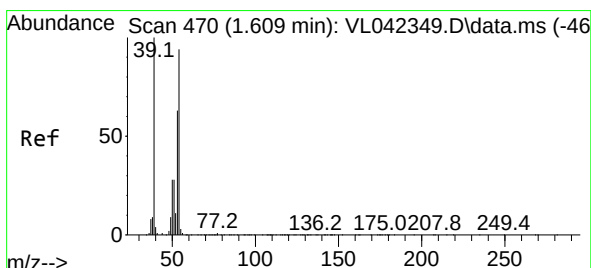
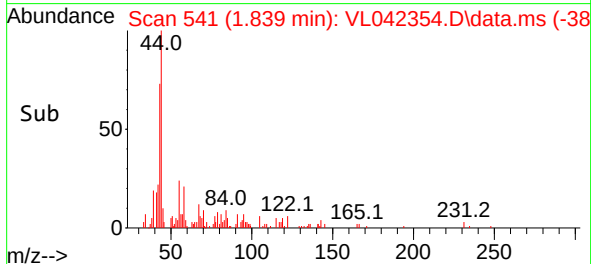
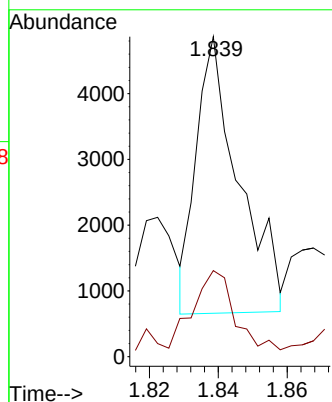
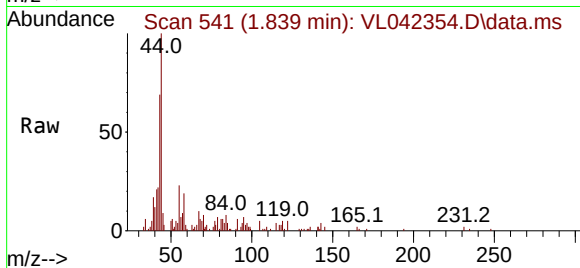
VSTDICC0.03

Tgt Ion: 43 Resp: 3597

Ion Ratio Lower Upper

43 100

58 33.7 22.4 33.6#



#16

1,3-Butadiene

Concen: 0.062 ppbv

RT: 1.609 min Scan# 470

Delta R.T. -0.000 min

Lab File: VL042354.D

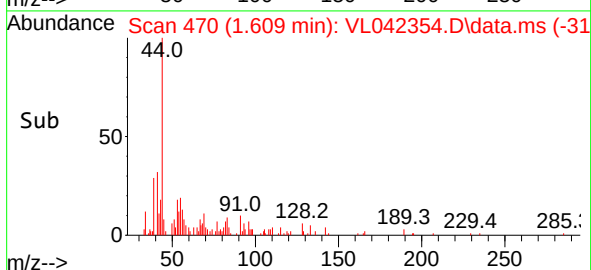
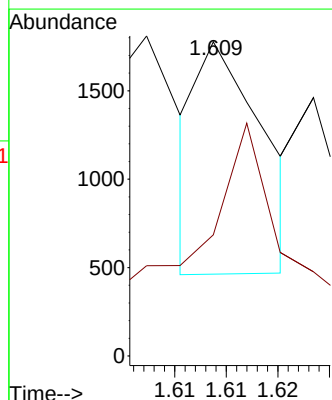
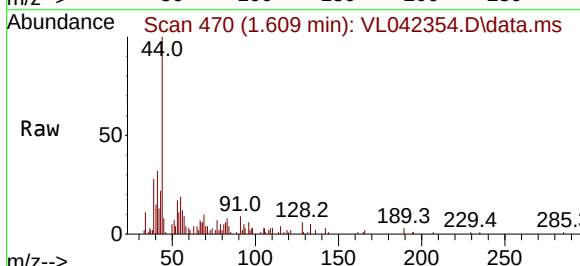
Acq: 17 Apr 2025 12:22

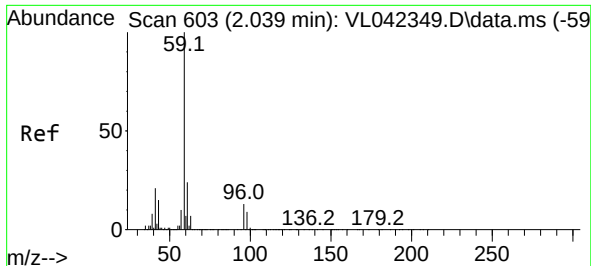
Tgt Ion: 39 Resp: 573

Ion Ratio Lower Upper

39 100

54 377.0 64.9 97.3#





#17

tert-Butyl alcohol

Concen: 0.041 ppbv

RT: 2.049 min Scan# 603

Delta R.T. 0.010 min

Lab File: VL042354.D

Acq: 17 Apr 2025 12:22

Instrument :

MSVOA_L

ClientSampleId :

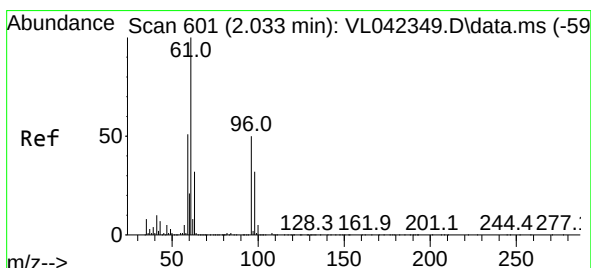
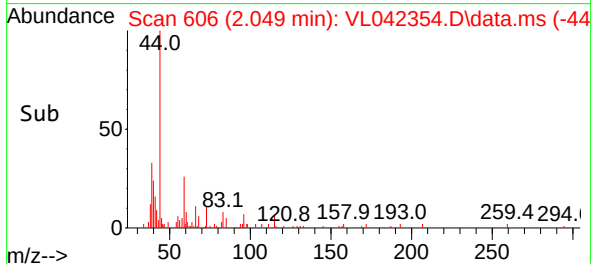
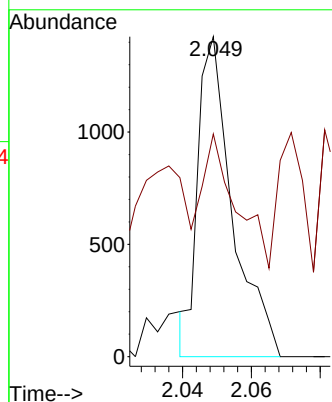
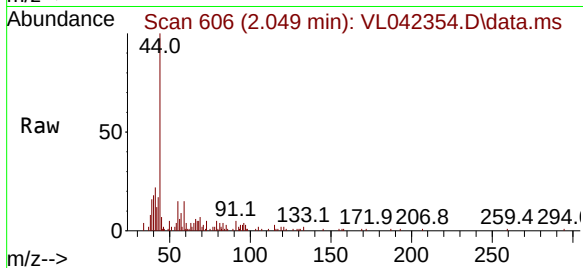
VSTDICC0.03

Tgt Ion: 59 Resp: 991

Ion Ratio Lower Upper

59 100

57 113.2 8.7 13.1#



#18

1,1-Dichloroethene

Concen: 0.057 ppbv

RT: 2.036 min Scan# 602

Delta R.T. 0.003 min

Lab File: VL042354.D

Acq: 17 Apr 2025 12:22

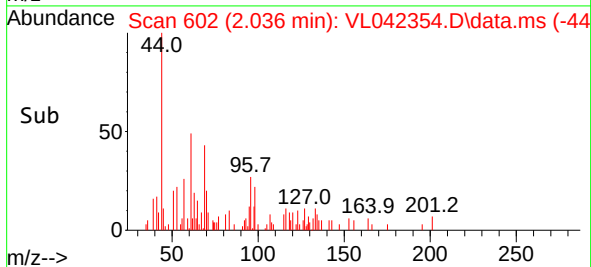
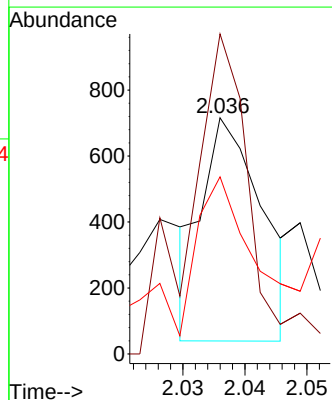
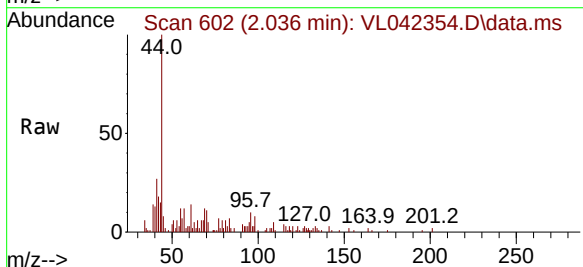
Tgt Ion: 96 Resp: 455

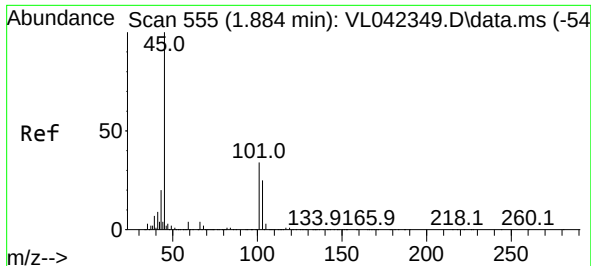
Ion Ratio Lower Upper

96 100

61 271.0 160.2 240.2#

98 132.1 51.0 76.4#

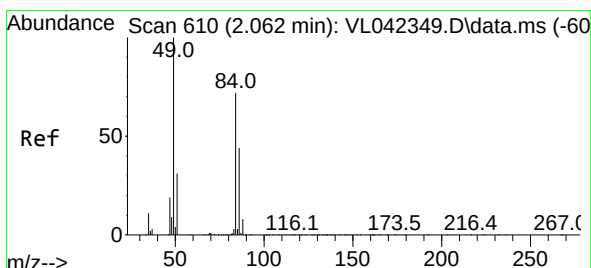
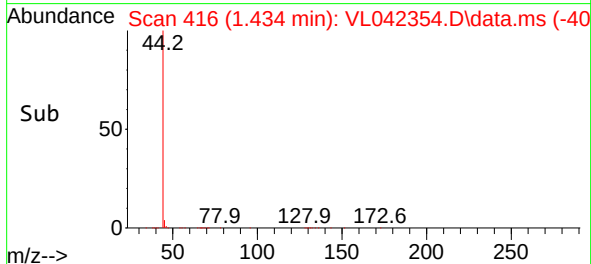
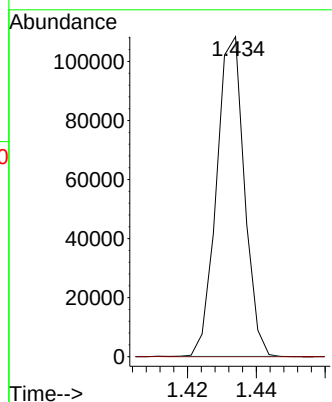
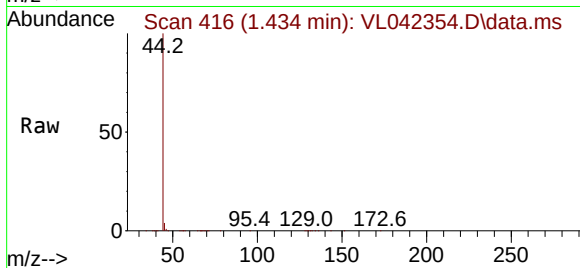




#19
Isopropyl Alcohol
Concen: 5.582 ppbv
RT: 1.434 min Scan# 416
Delta R.T. -0.450 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

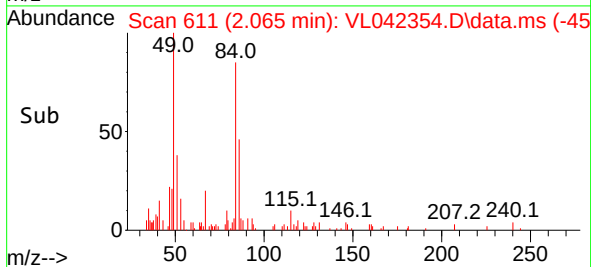
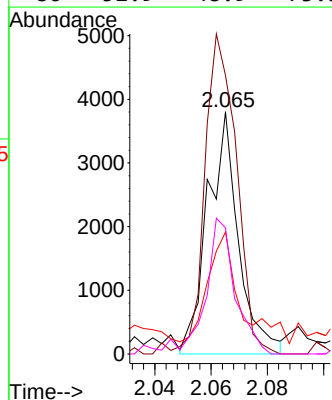
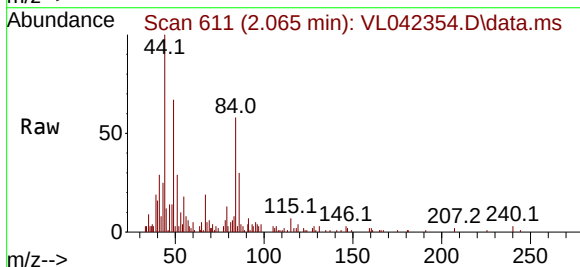
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

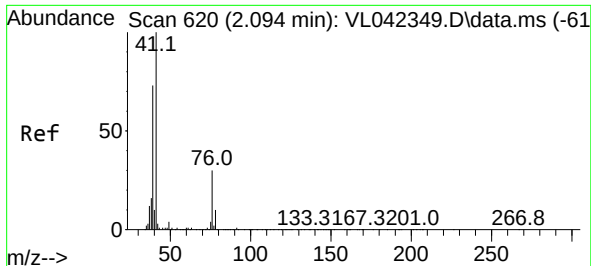
Tgt Ion: 45 Resp: 60931
Ion Ratio Lower Upper
45 100
58 0.2 34.5 51.7#



#20
Methylene Chloride
Concen: 0.377 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 84 Resp: 2904
Ion Ratio Lower Upper
84 100
49 116.9 111.6 167.4
51 46.1 35.1 52.7
86 52.9 48.9 73.3

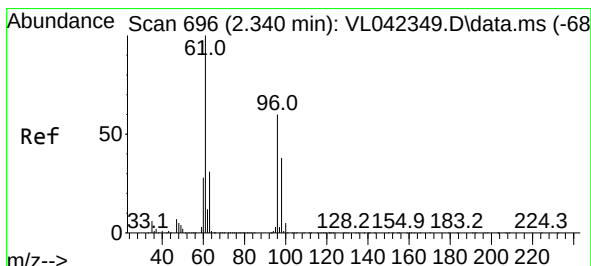
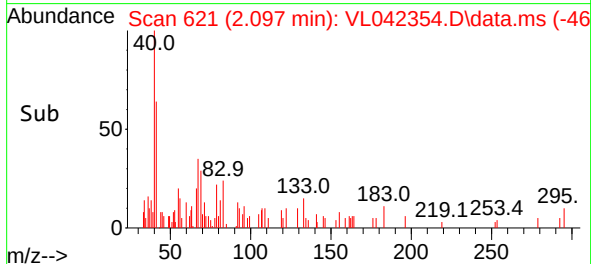
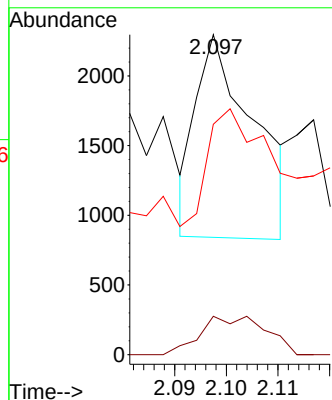
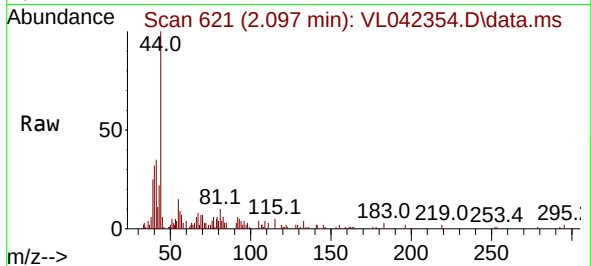




#21
 Allyl Chloride
 Concen: 0.083 ppbv
 RT: 2.097 min Scan# 61
 Delta R.T. 0.003 min
 Lab File: VL042354.D
 Acq: 17 Apr 2025 12:22

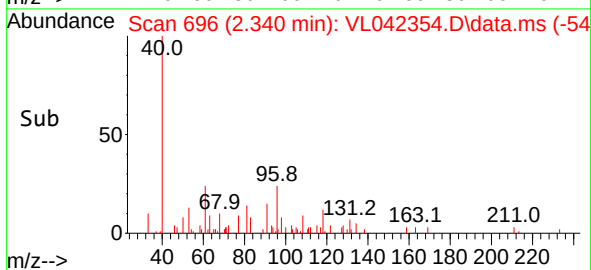
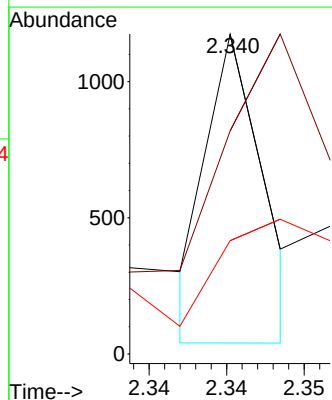
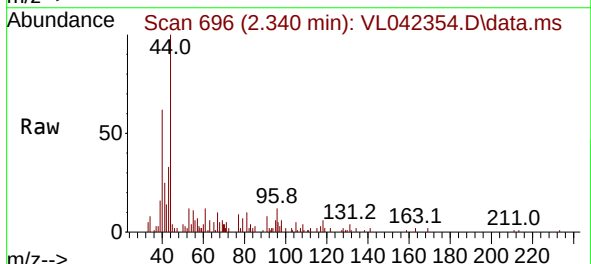
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.03

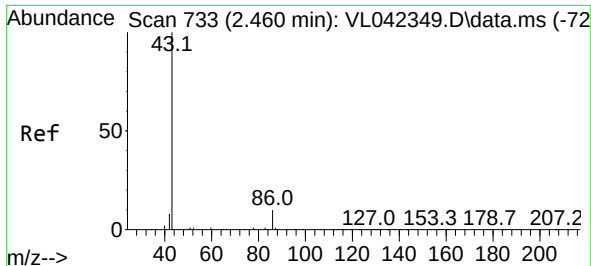
Tgt Ion: 41 Resp: 1132
 Ion Ratio Lower Upper
 41 100
 76 21.5 24.8 37.2#
 39 407.5 60.6 90.8#



#22
 trans-1,2-Dichloroethene
 Concen: 0.033 ppbv
 RT: 2.340 min Scan# 696
 Delta R.T. -0.000 min
 Lab File: VL042354.D
 Acq: 17 Apr 2025 12:22

Tgt Ion: 96 Resp: 287
 Ion Ratio Lower Upper
 96 100
 61 58.7 133.7 200.5#
 98 36.0 50.3 75.5#

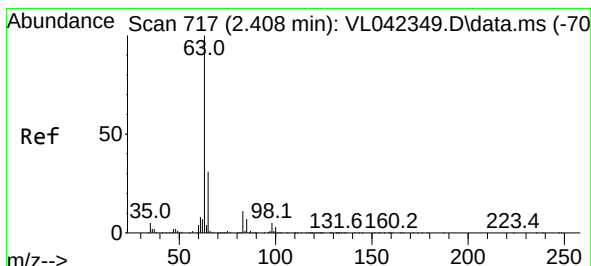
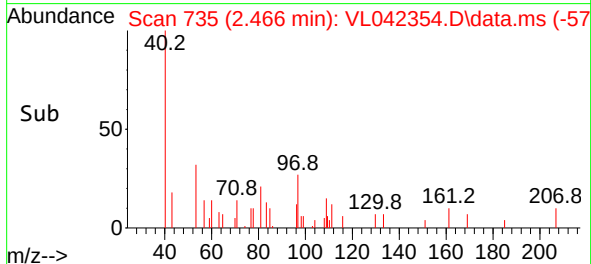
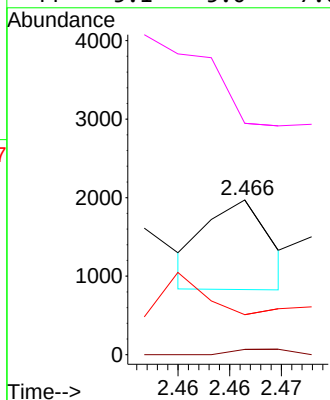
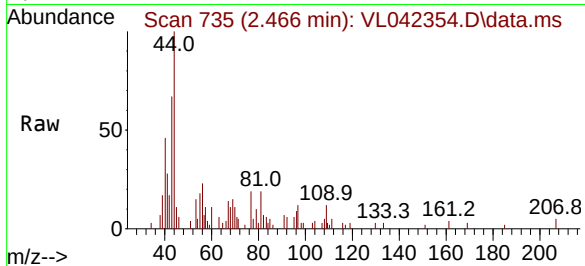




#23
Vinyl Acetate
Concen: 0.062 ppbv
RT: 2.466 min Scan# 719
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

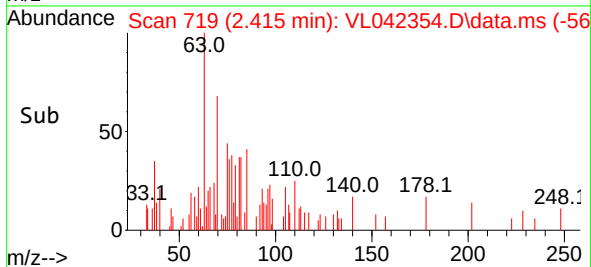
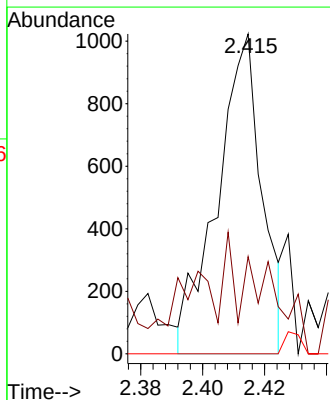
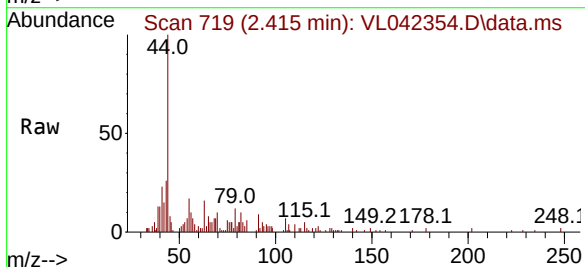
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC0.03

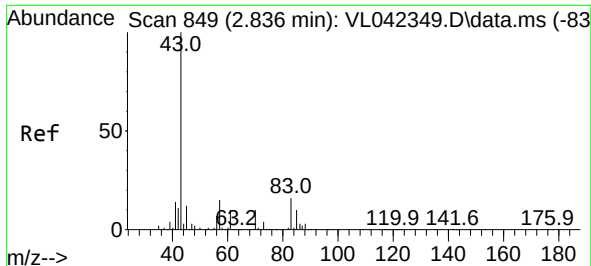
Tgt Ion:	43	Resp:	490
Ion	Ratio	Lower	Upper
43	100		
86	10.1	6.5	9.7#
42	0.0	7.8	11.8#
44	5.1	5.0	7.6



#24
1,1-Dichloroethane
Concen: 0.062 ppbv
RT: 2.415 min Scan# 719
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion:	63	Resp:	1030
Ion	Ratio	Lower	Upper
63	100		
98	17.1	2.3	6.8#
100	0.0	1.6	4.8#





#25

Ethyl Acetate

Concen: 0.057 ppbv

RT: 2.835 min Scan# 84

Delta R.T. -0.000 min

Lab File: VL042354.D

Acq: 17 Apr 2025 12:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

Tgt Ion: 43 Resp: 2744

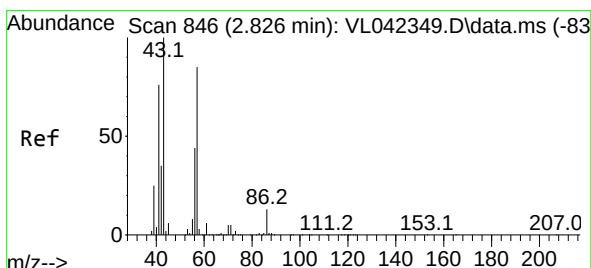
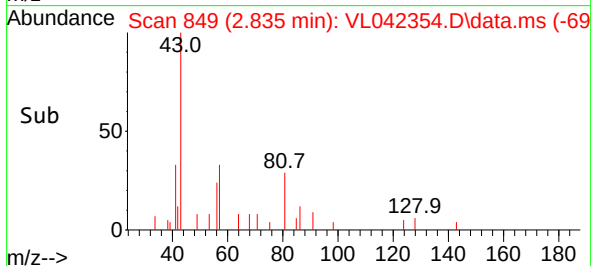
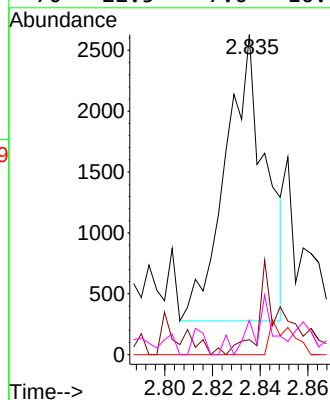
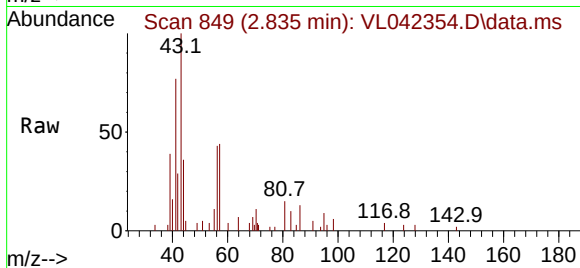
Ion Ratio Lower Upper

43 100

45 21.1 8.3 12.5#

61 6.4 7.3 10.9#

70 22.5 7.0 10.6#



#26

Hexane

Concen: 0.122 ppbv

RT: 2.832 min Scan# 848

Delta R.T. 0.006 min

Lab File: VL042354.D

Acq: 17 Apr 2025 12:22

Tgt Ion: 57 Resp: 2398

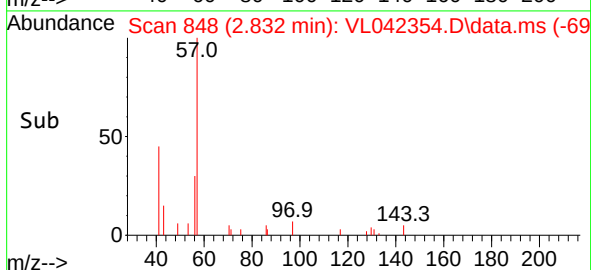
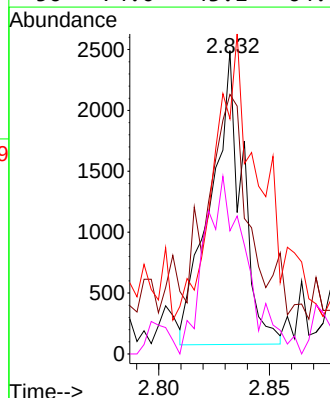
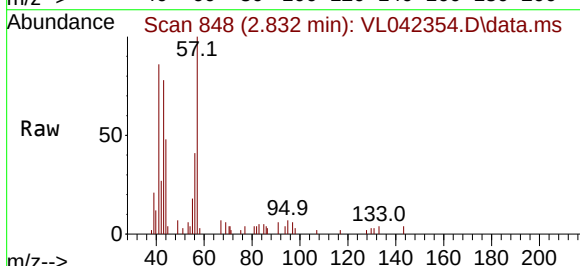
Ion Ratio Lower Upper

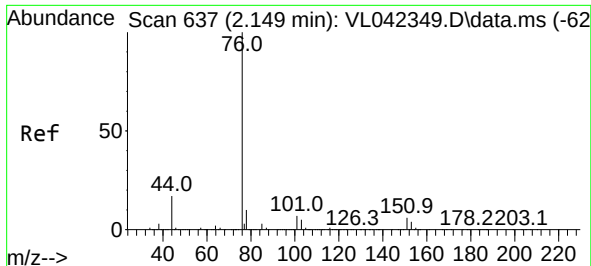
57 100

41 125.7 77.9 116.9#

43 191.2 208.4 312.6#

56 74.0 43.1 64.7#





#27

Carbon Disulfide

Concen: 0.047 ppbv

RT: 2.152 min Scan# 61

Delta R.T. 0.003 min

Lab File: VL042354.D

Acq: 17 Apr 2025 12:22

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.03

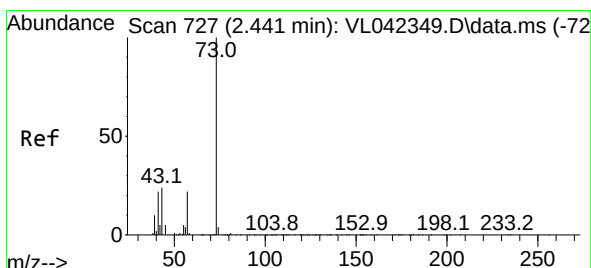
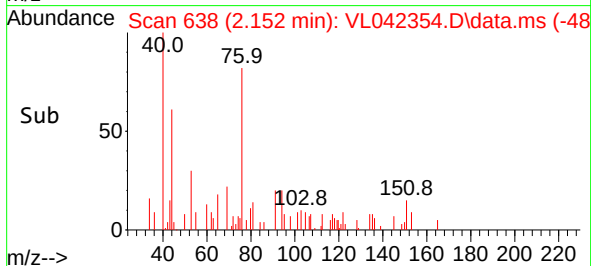
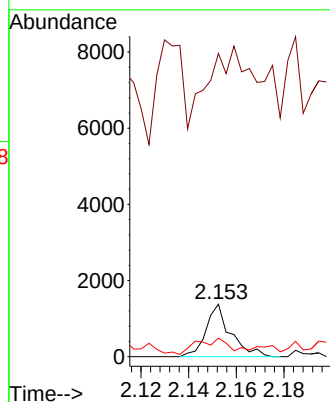
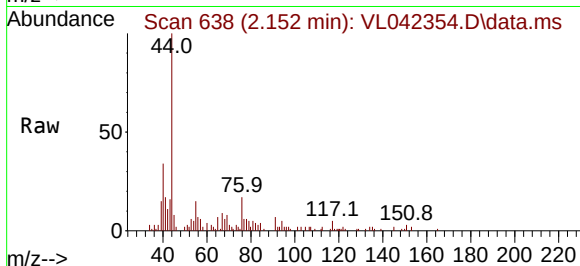
Tgt Ion: 76 Resp: 984

Ion Ratio Lower Upper

76 100

44 1141.4 15.5 23.3#

78 54.0 9.3 13.9#



#28

Methyl tert-Butyl Ether

Concen: 0.033 ppbv

RT: 2.447 min Scan# 729

Delta R.T. 0.006 min

Lab File: VL042354.D

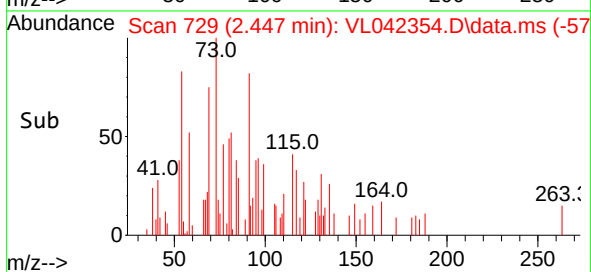
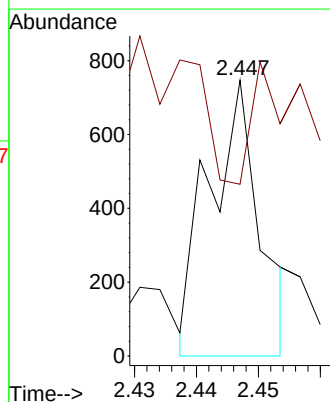
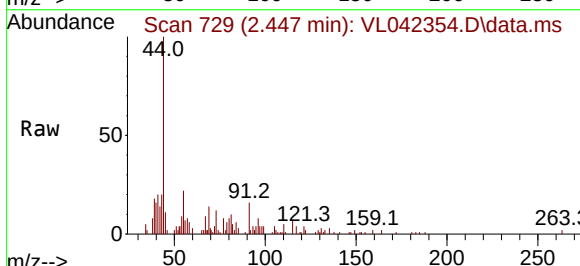
Acq: 17 Apr 2025 12:22

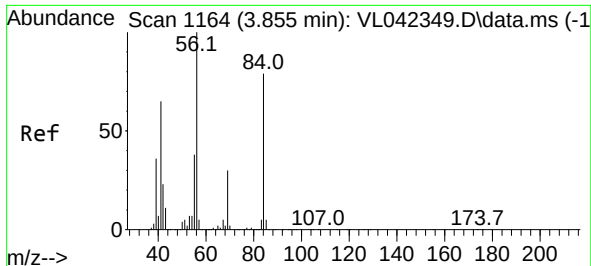
Tgt Ion: 73 Resp: 426

Ion Ratio Lower Upper

73 100

57 0.0 21.3 31.9#

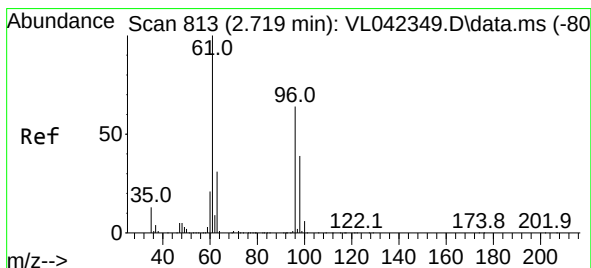
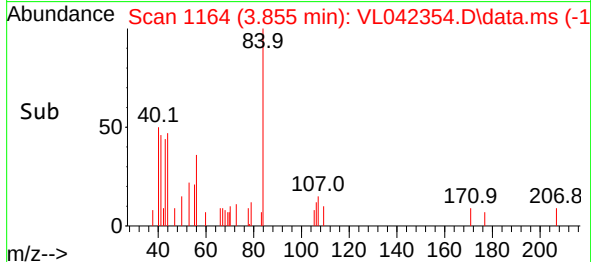
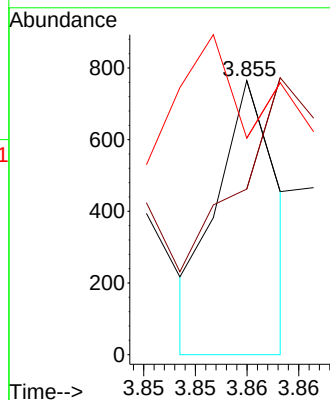
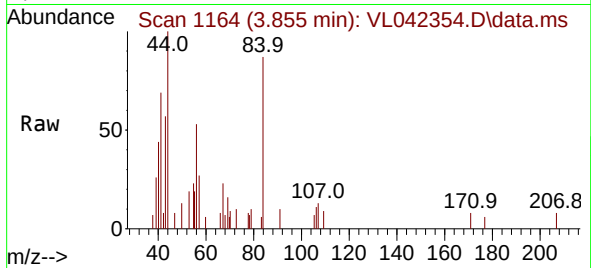




#30
Cyclohexane
Concen: 0.020 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

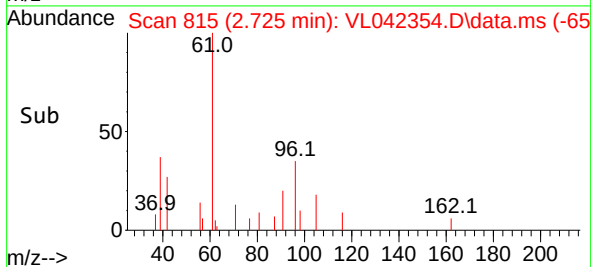
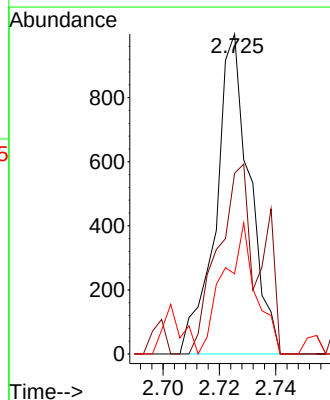
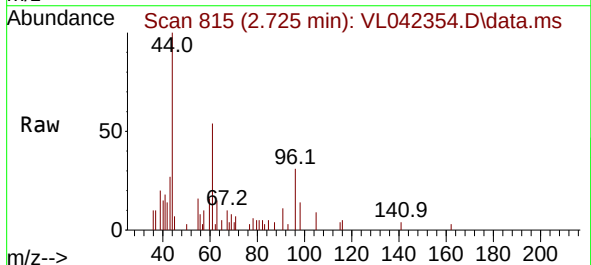
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

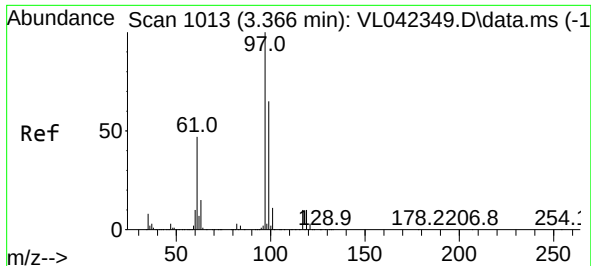
Tgt Ion: 84 Resp: 311
Ion Ratio Lower Upper
84 100
56 0.0 101.0 151.4#
41 0.0 67.4 101.0#



#31
cis-1,2-Dichloroethene
Concen: 0.045 ppbv
RT: 2.725 min Scan# 815
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 61 Resp: 831
Ion Ratio Lower Upper
61 100
96 56.5 50.8 76.2
98 25.0 30.9 46.3#

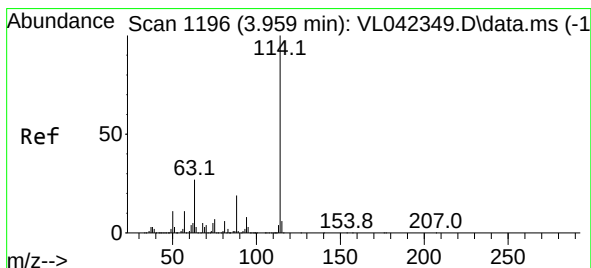
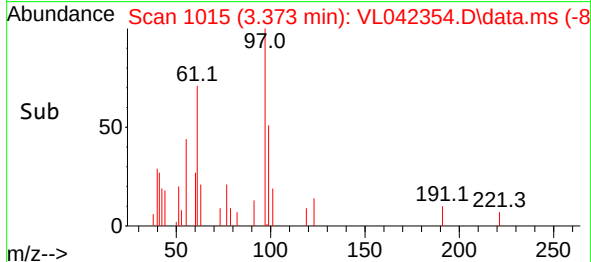
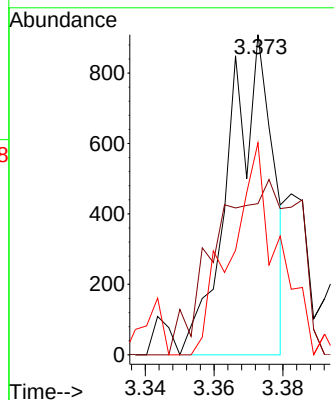
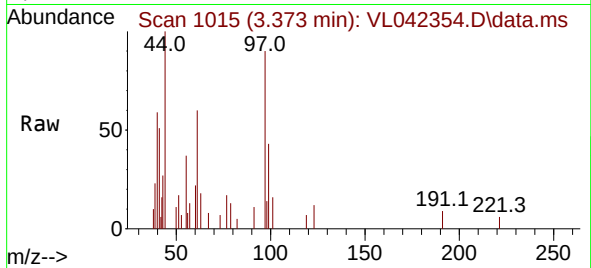




#32
 1,1,1-Trichloroethane
 Concen: 0.027 ppbv
 RT: 3.373 min Scan# 1109
 Delta R.T. 0.006 min
 Lab File: VL042354.D
 Acq: 17 Apr 2025 12:22

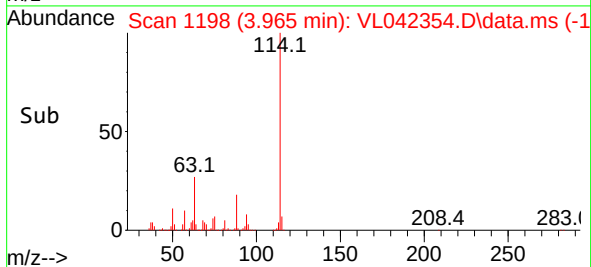
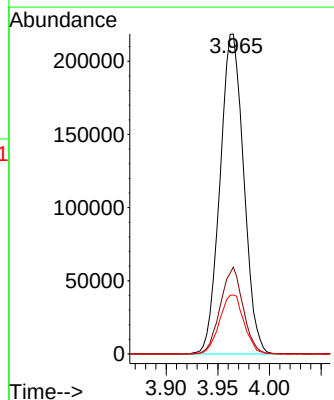
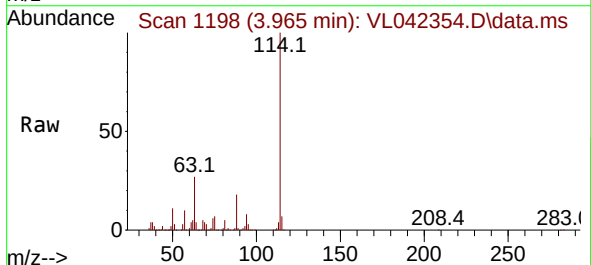
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.03

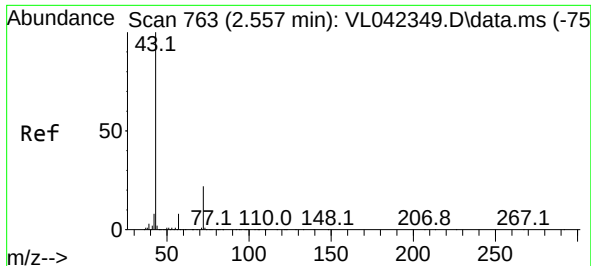
Tgt Ion: 97 Resp: 809
 Ion Ratio Lower Upper
 97 100
 99 103.0 51.0 76.4#
 61 78.7 38.8 58.2#



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.965 min Scan# 1198
 Delta R.T. 0.006 min
 Lab File: VL042354.D
 Acq: 17 Apr 2025 12:22

Tgt Ion: 114 Resp: 349264
 Ion Ratio Lower Upper
 114 100
 63 26.0 21.8 32.6
 88 19.0 15.5 23.3

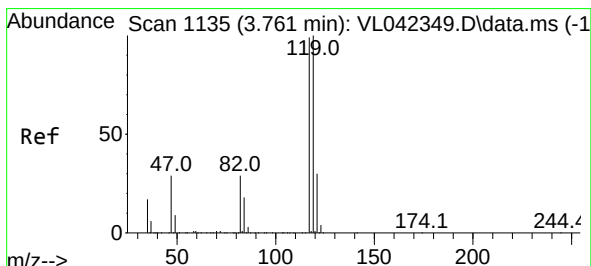
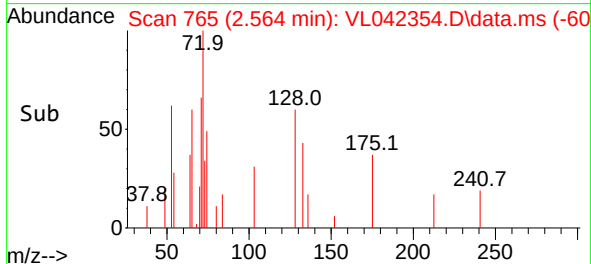
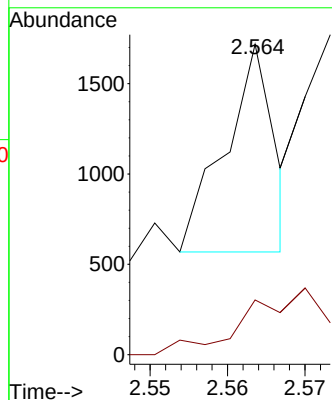
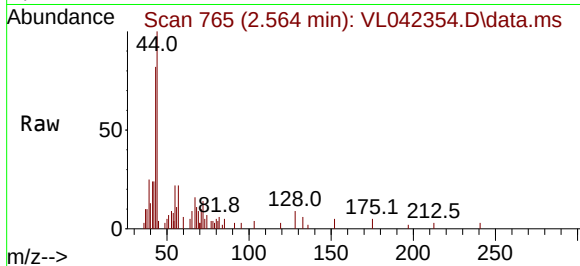




#34
2-Butanone
Concen: 0.018 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

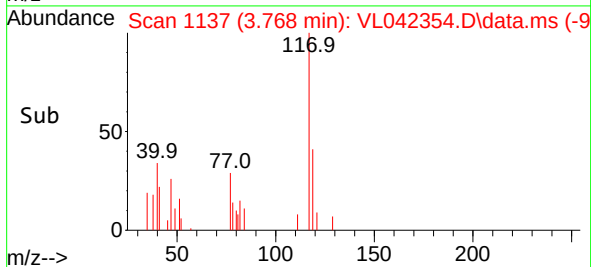
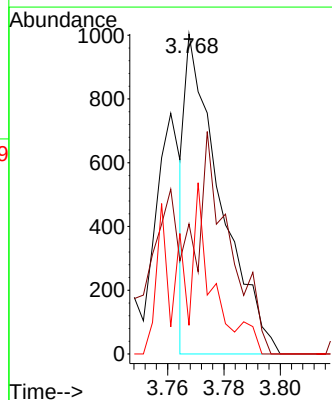
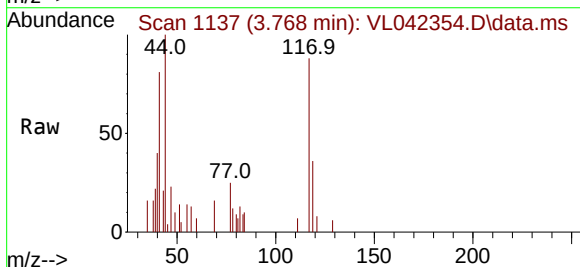
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.03

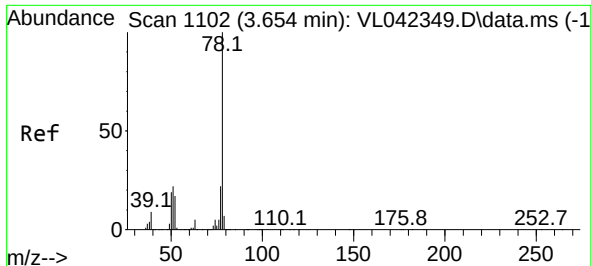
Tgt Ion: 43 Resp: 510
Ion Ratio Lower Upper
43 100
72 0.0 18.2 27.2#



#35
Carbon Tetrachloride
Concen: 0.027 ppbv
RT: 3.768 min Scan# 1137
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 117 Resp: 862
Ion Ratio Lower Upper
117 100
119 40.6 80.5 120.7#
121 9.0 24.2 36.2#





#36

Benzene

Concen: 0.043 ppbv

RT: 3.667 min Scan# 1106

Delta R.T. 0.013 min

Lab File: VL042354.D

Acq: 17 Apr 2025 12:22

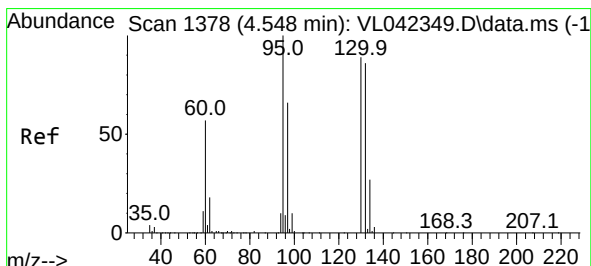
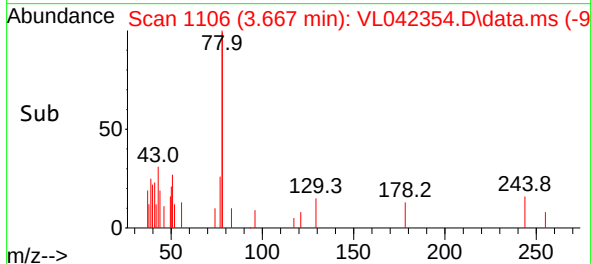
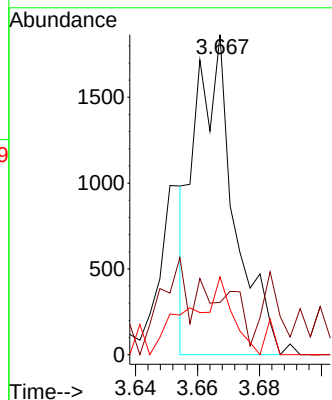
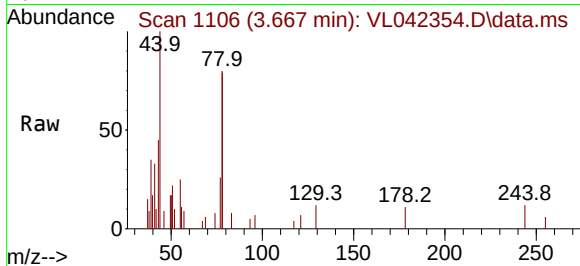
Instrument :

MSVOA_1

ClientSampleId :

VSTDICC0.03

Tgt Ion: 78	Resp:	1629
Ion	Ratio	Lower Upper
78	100	
77	4.6	17.4 26.0#
50	25.2	15.5 23.3#



#38

Trichloroethene

Concen: 0.016 ppbv

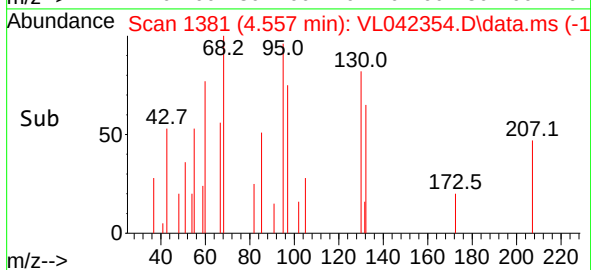
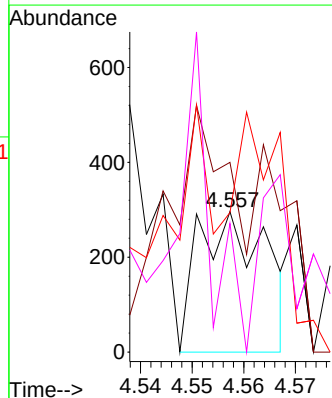
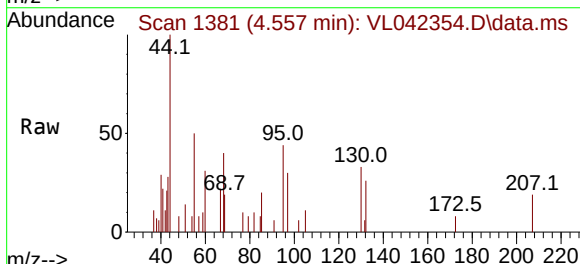
RT: 4.557 min Scan# 1381

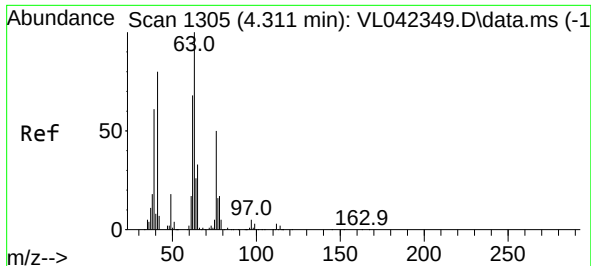
Delta R.T. 0.010 min

Lab File: VL042354.D

Acq: 17 Apr 2025 12:22

Tgt Ion: 130	Resp:	271
Ion	Ratio	Lower Upper
130	100	
95	44.6	89.8 134.6#
132	19.6	77.7 116.5#
97	7.1	59.4 89.2#





#39

1,2-Dichloropropane

Concen: 6.465 ppbv

RT: 3.965 min Scan# 1198

Delta R.T. -0.346 min

Lab File: VL042354.D

Acq: 17 Apr 2025 12:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

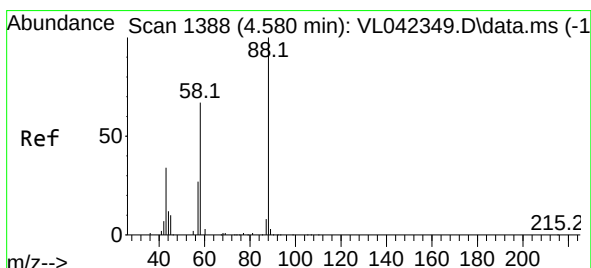
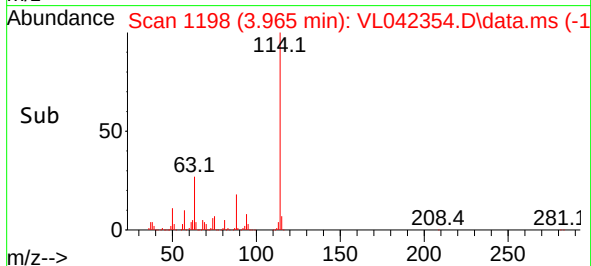
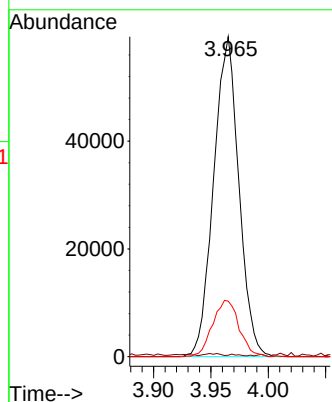
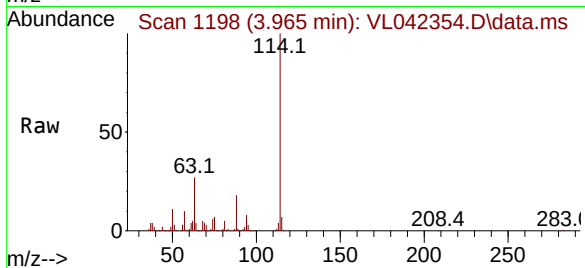
Tgt Ion: 63 Resp: 90827

Ion Ratio Lower Upper

63 100

41 0.0 64.2 96.2#

62 17.4 54.3 81.5#



#40

1,4-Dioxane

Concen: 0.018 ppbv

RT: 4.625 min Scan# 1402

Delta R.T. 0.045 min

Lab File: VL042354.D

Acq: 17 Apr 2025 12:22

Tgt Ion: 88 Resp: 139

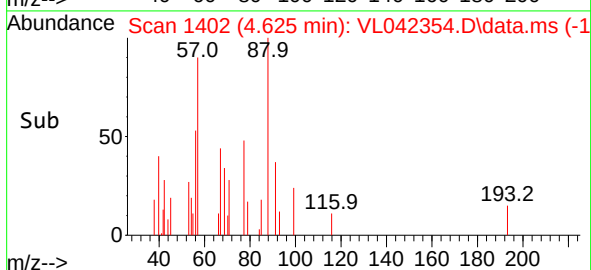
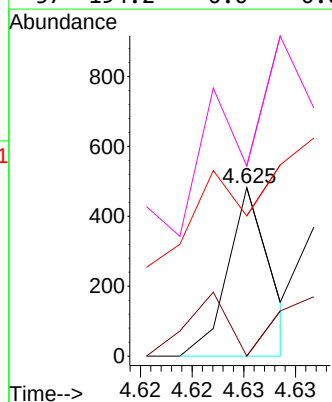
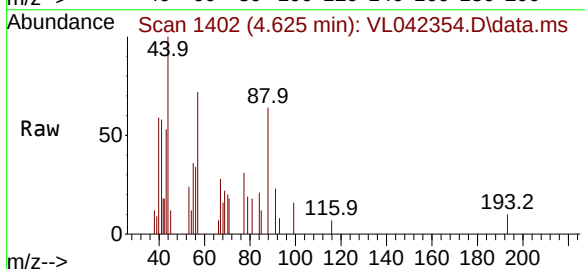
Ion Ratio Lower Upper

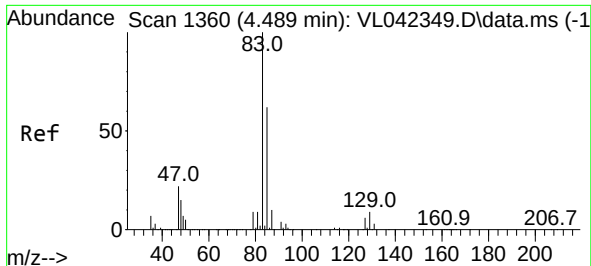
88 100

58 0.0 61.4 92.0#

43 251.8 23.2 34.8#

57 194.2 0.0 0.0#

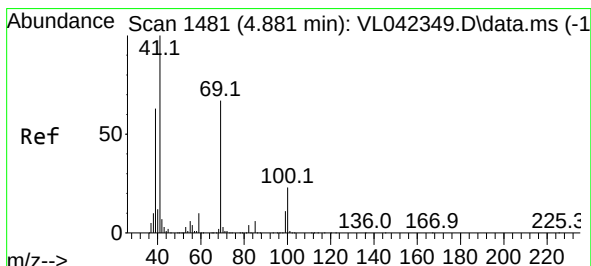
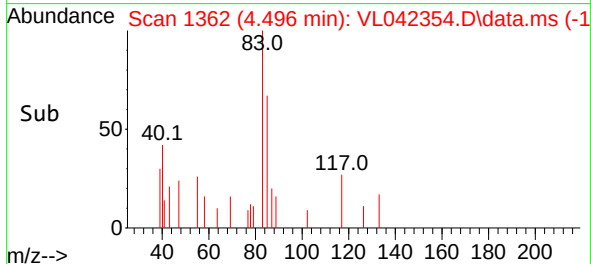
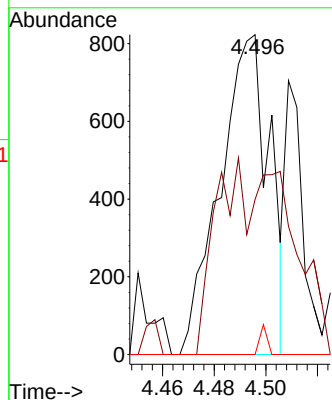
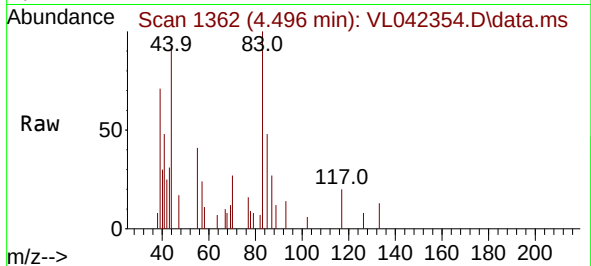




#42
Bromodichloromethane
Concen: 0.035 ppbv
RT: 4.496 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

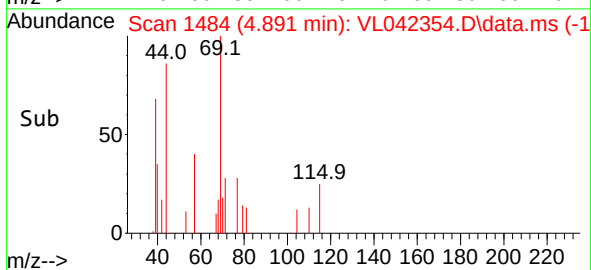
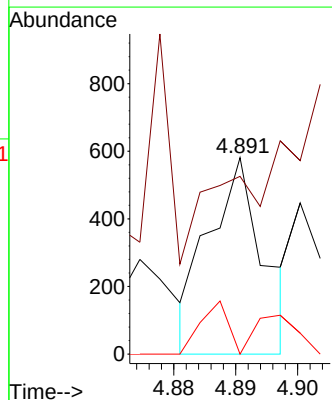
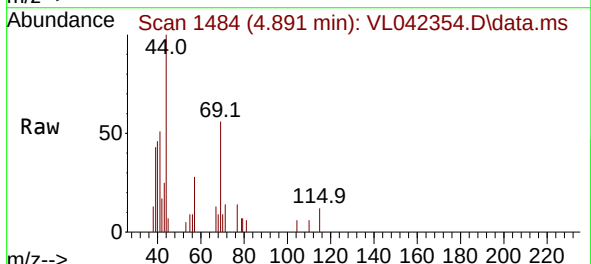
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

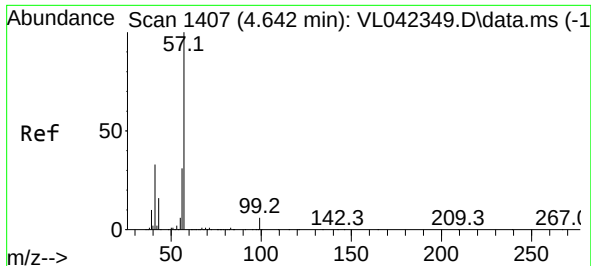
Tgt Ion: 83 Resp: 1093
Ion Ratio Lower Upper
83 100
85 48.5 49.7 74.5#
127 0.0 5.1 7.7#



#43
Methyl Methacrylate
Concen: 0.021 ppbv
RT: 4.891 min Scan# 1484
Delta R.T. 0.010 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 69 Resp: 354
Ion Ratio Lower Upper
69 100
41 0.0 118.6 177.8#
100 40.7 28.2 42.2

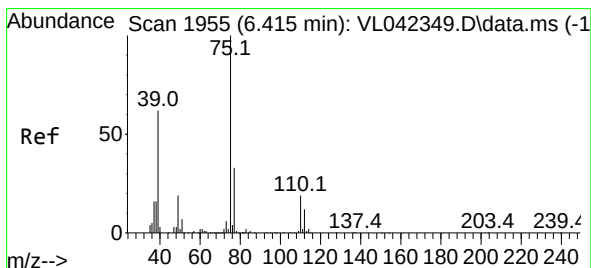
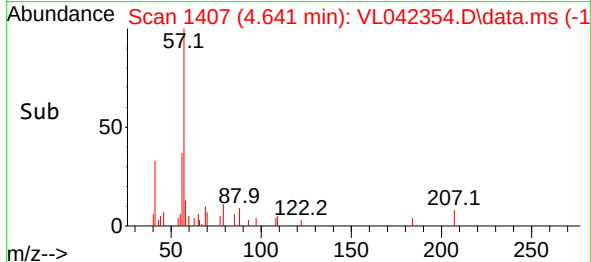
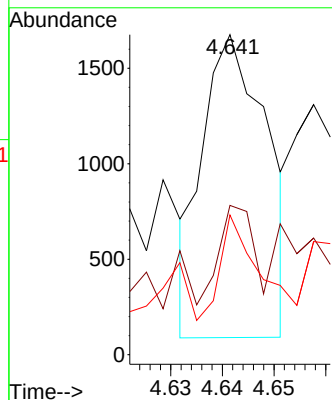
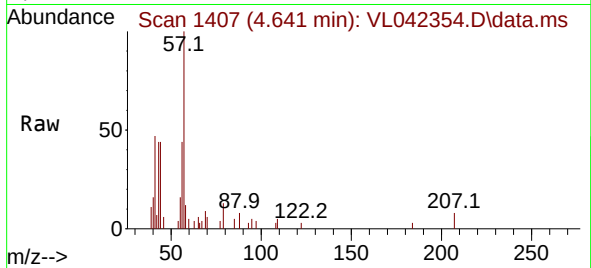




#44
2,2,4-Trimethylpentane
Concen: 0.021 ppbv
RT: 4.641 min Scan# 1407
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

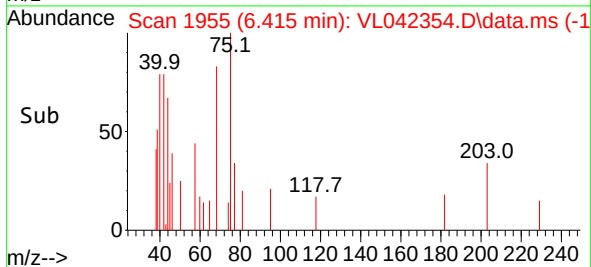
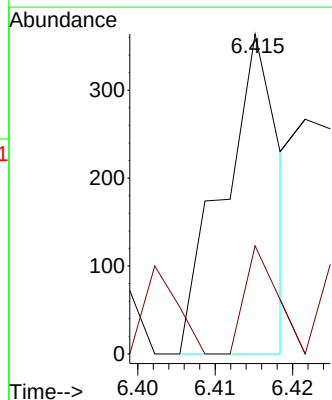
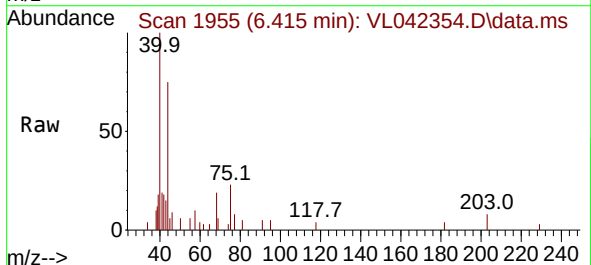
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.03

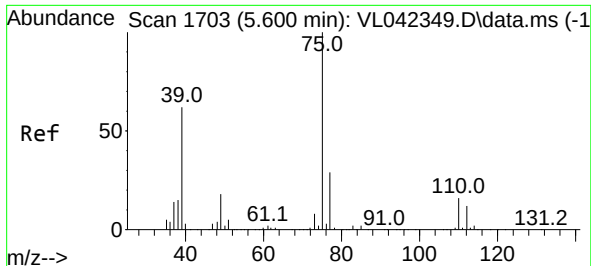
Tgt Ion: 57 Resp: 1377
Ion Ratio Lower Upper
57 100
41 0.0 27.2 40.8#
56 139.0 25.7 38.5#



#45
t-1,3-Dichloropropene
Concen: 0.011 ppbv
RT: 6.415 min Scan# 1955
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 75 Resp: 183
Ion Ratio Lower Upper
75 100
77 33.8 27.0 40.6

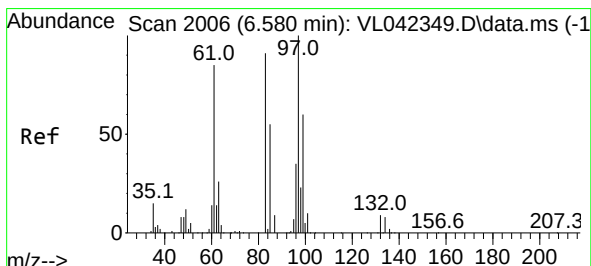
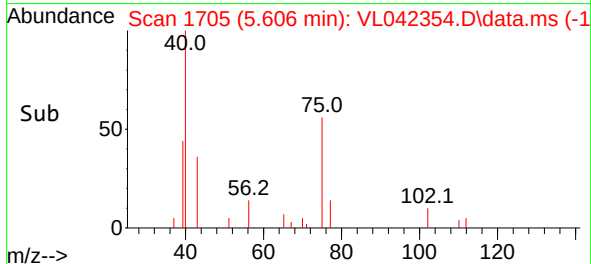
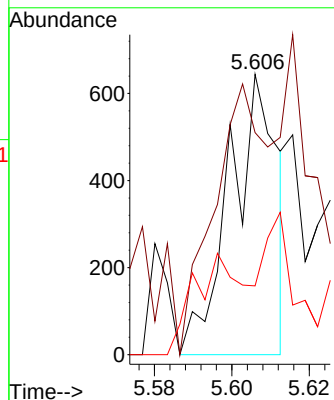
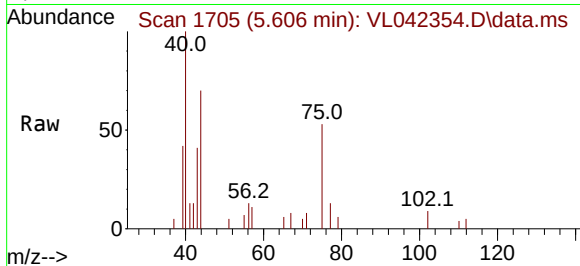




#46
 cis-1,3-Dichloropropene
 Concen: 0.026 ppbv
 RT: 5.606 min Scan# 1
 Delta R.T. 0.006 min
 Lab File: VL042354.D
 Acq: 17 Apr 2025 12:22

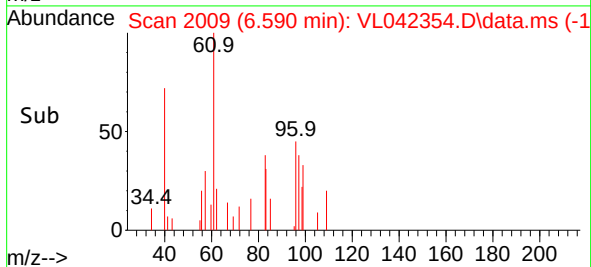
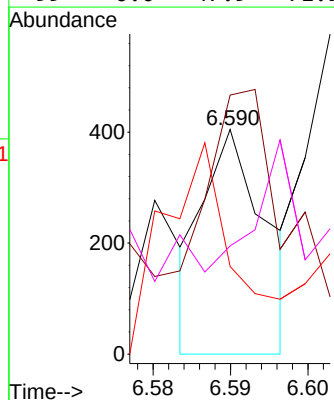
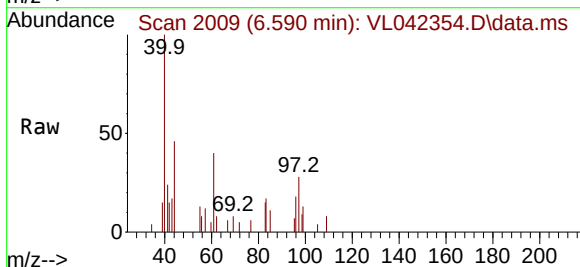
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

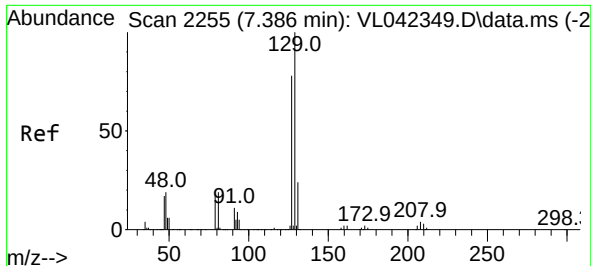
Tgt Ion: 75 Resp: 546
 Ion Ratio Lower Upper
 75 100
 39 1.7 50.0 75.0#
 77 13.7 23.0 34.6#



#47
 1,1,2-Trichloroethane
 Concen: 0.016 ppbv
 RT: 6.590 min Scan# 2009
 Delta R.T. 0.010 min
 Lab File: VL042354.D
 Acq: 17 Apr 2025 12:22

Tgt Ion: 97 Resp: 225
 Ion Ratio Lower Upper
 97 100
 83 149.5 72.8 109.2#
 85 27.8 44.2 66.4#
 99 0.0 47.9 71.9#

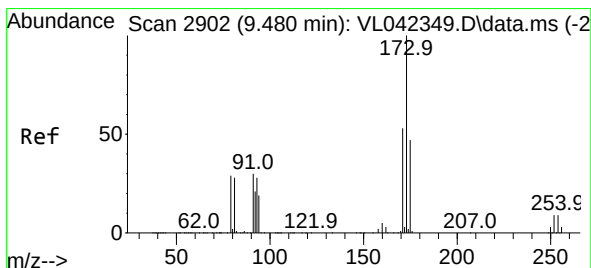
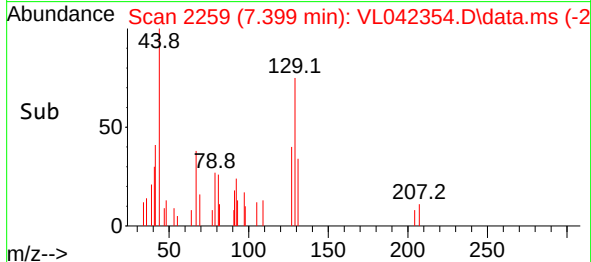
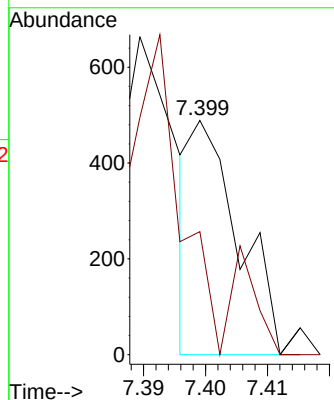
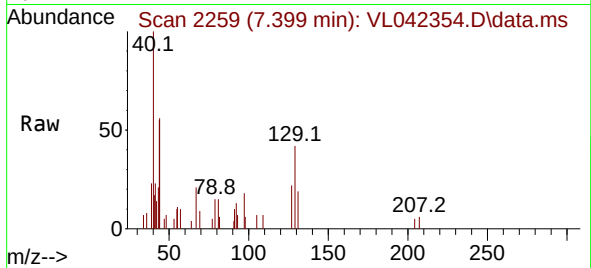




#48
 Dibromochloromethane
 Concen: 0.010 ppbv
 RT: 7.399 min Scan# 21
 Delta R.T. 0.013 min
 Lab File: VL042354.D
 Acq: 17 Apr 2025 12:22

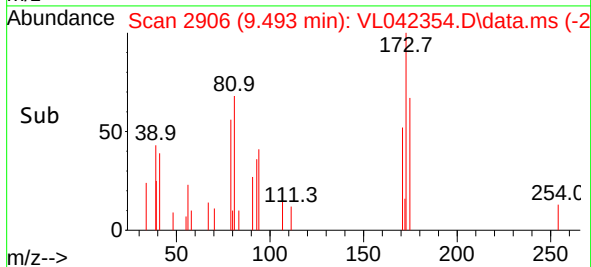
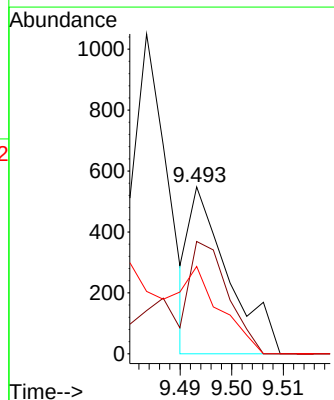
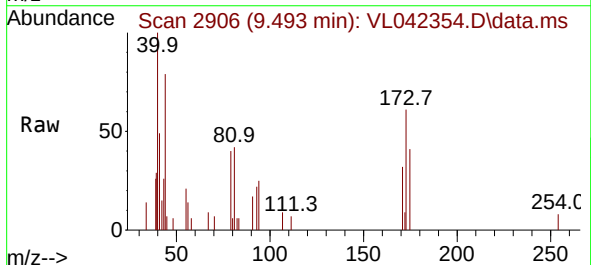
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

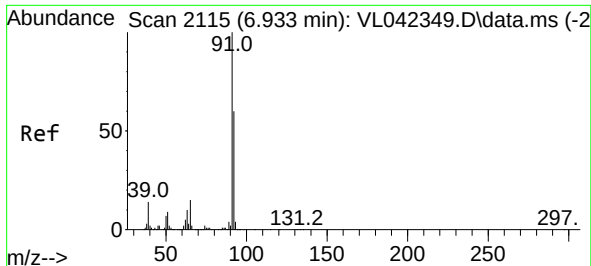
Tgt Ion:129 Resp: 258
 Ion Ratio Lower Upper
 129 100
 127 0.0 39.1 117.3#



#49
 Bromoform
 Concen: 0.013 ppbv
 RT: 9.493 min Scan# 2906
 Delta R.T. 0.013 min
 Lab File: VL042354.D
 Acq: 17 Apr 2025 12:22

Tgt Ion:173 Resp: 285
 Ion Ratio Lower Upper
 173 100
 175 145.3 38.2 57.2#
 171 11.9 40.9 61.3#





#53

Toluene

Concen: 0.010 ppbv

RT: 6.943 min Scan# 2115

Delta R.T. 0.010 min

Lab File: VL042354.D

Acq: 17 Apr 2025 12:22

Instrument :

MSVOA_L

ClientSampleId :

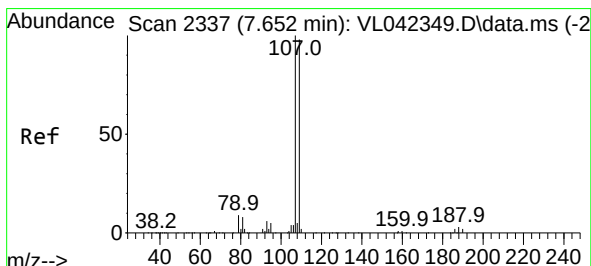
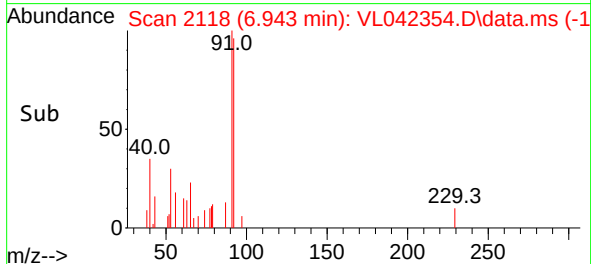
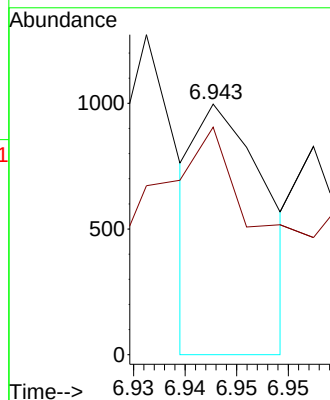
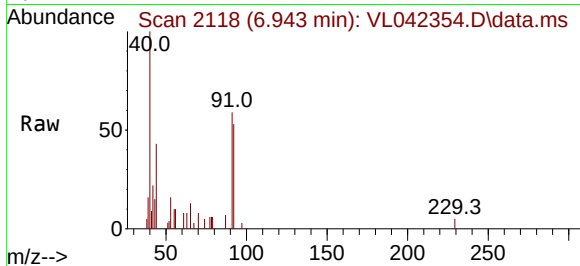
VSTDIC0.03

Tgt Ion: 91 Resp: 464

Ion Ratio Lower Upper

91 100

92 289.2 48.2 72.4#



#54

1,2-Dibromoethane

Concen: 0.021 ppbv

RT: 7.668 min Scan# 2342

Delta R.T. 0.016 min

Lab File: VL042354.D

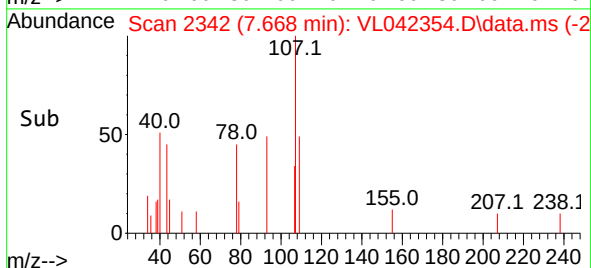
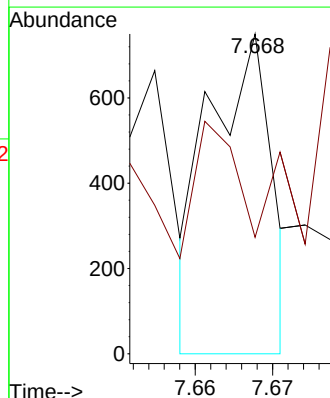
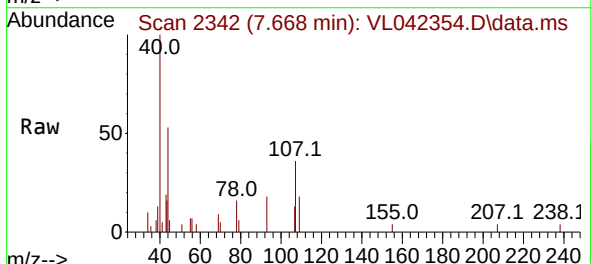
Acq: 17 Apr 2025 12:22

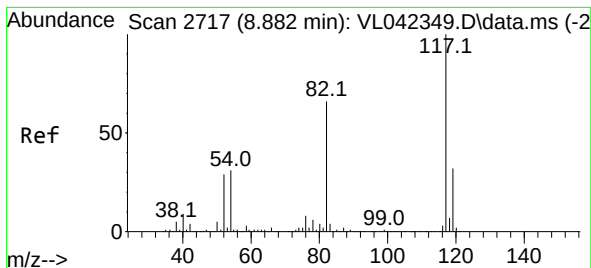
Tgt Ion: 107 Resp: 422

Ion Ratio Lower Upper

107 100

109 10.4 78.2 117.4#





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.885 min Scan# 2717

Delta R.T. 0.003 min

Lab File: VL042354.D

Acq: 17 Apr 2025 12:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

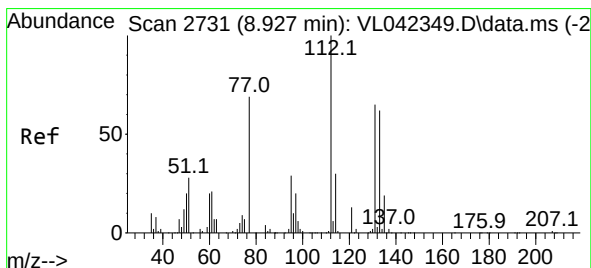
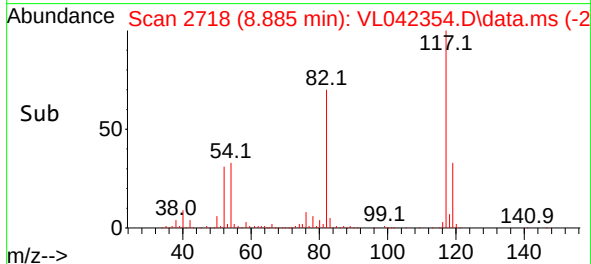
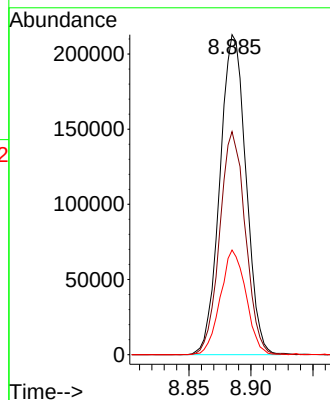
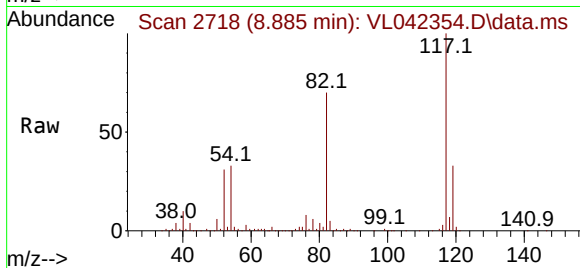
Tgt Ion:117 Resp: 312999

Ion Ratio Lower Upper

117 100

82 68.5 57.8 86.6

119 32.2 25.2 37.8



#56

1,1,1,2-Tetrachloroethane

Concen: 0.031 ppbv

RT: 8.927 min Scan# 2731

Delta R.T. -0.000 min

Lab File: VL042354.D

Acq: 17 Apr 2025 12:22

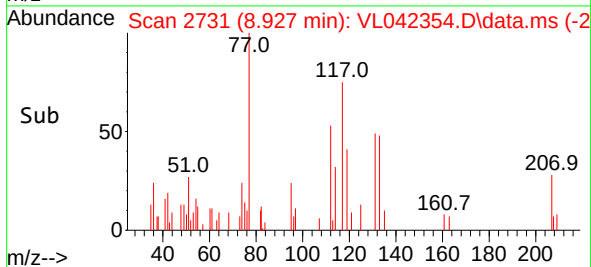
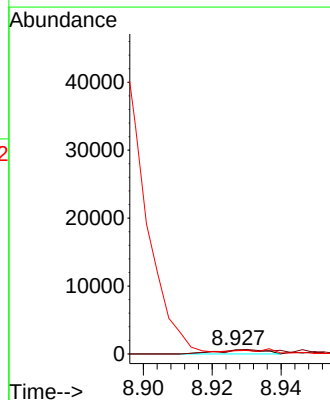
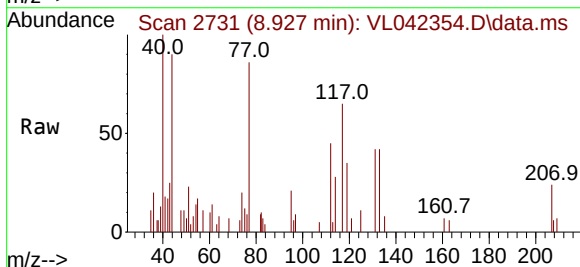
Tgt Ion:131 Resp: 589

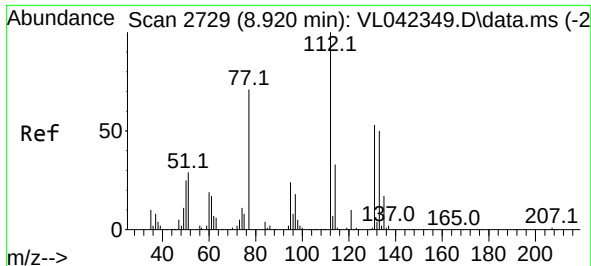
Ion Ratio Lower Upper

131 100

133 185.9 78.3 117.5#

119 17165.0 48.7 73.1#

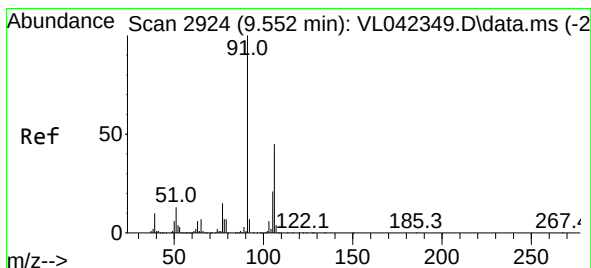
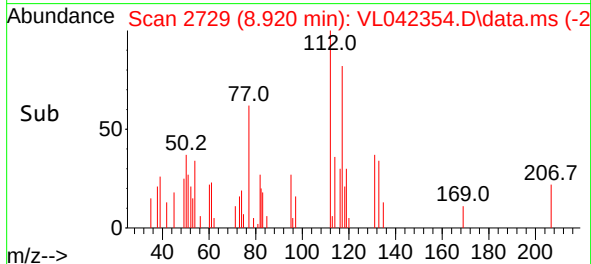
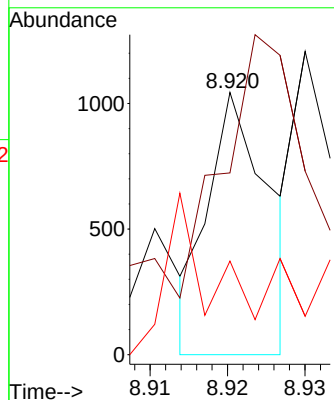
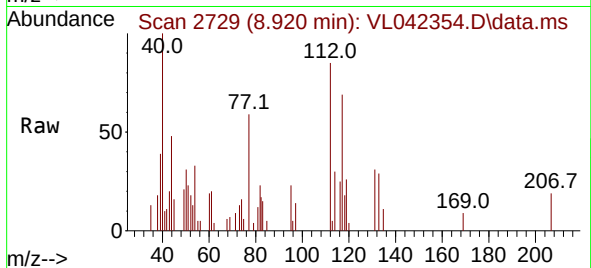




#57
Chlorobenzene
Concen: 0.017 ppbv
RT: 8.920 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

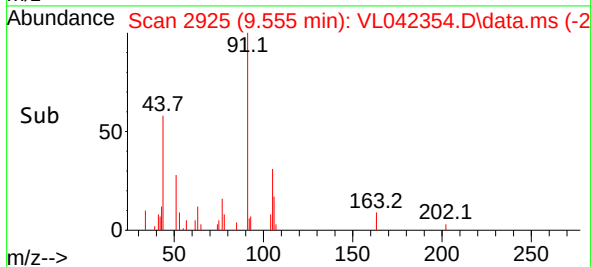
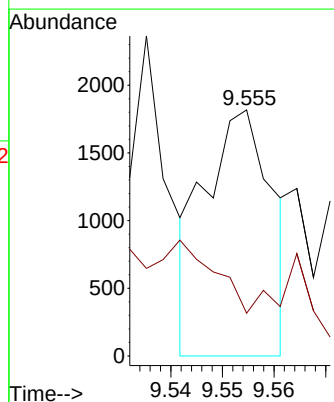
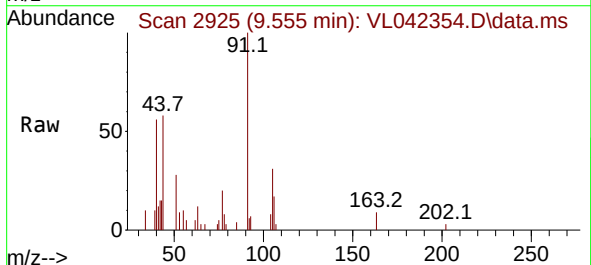
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

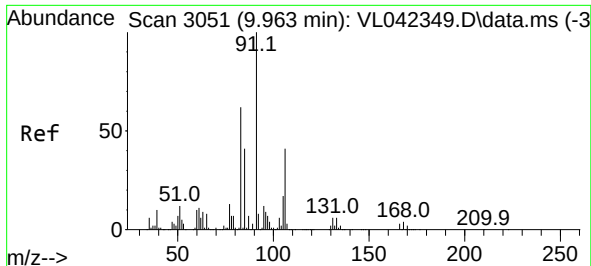
Tgt Ion:112 Resp: 567
Ion Ratio Lower Upper
112 100
77 62.5 57.8 86.6
114 0.0 29.3 35.9#



#59
m/p-Xylene
Concen: 0.033 ppbv
RT: 9.555 min Scan# 2925
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 91 Resp: 1648
Ion Ratio Lower Upper
91 100
106 0.0 35.4 53.2#

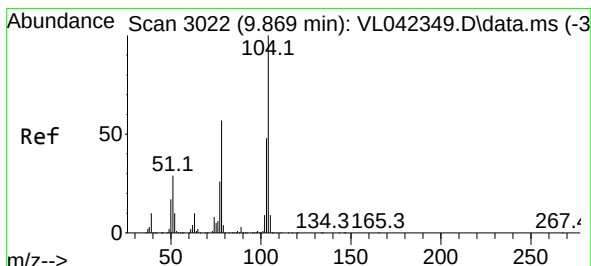
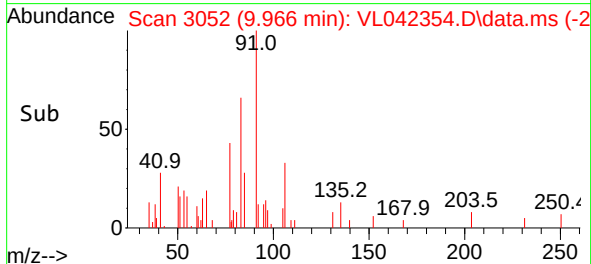
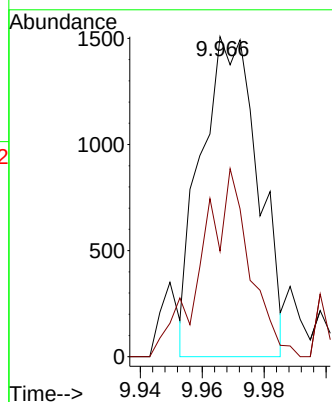
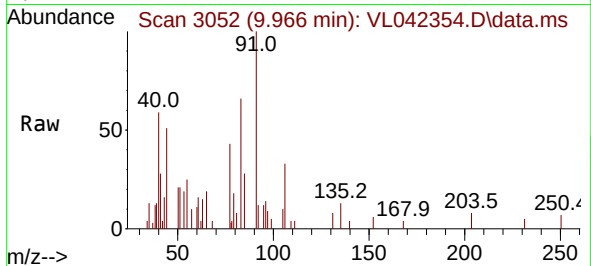




#60
o-Xylene
Concen: 0.039 ppbv
RT: 9.966 min Scan# 3051
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

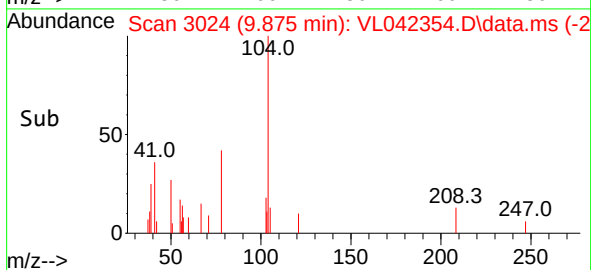
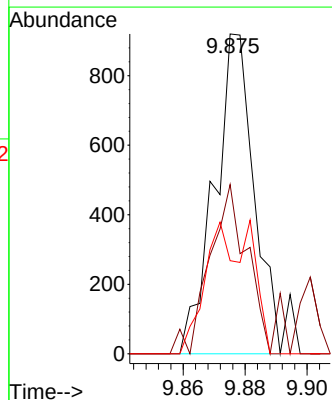
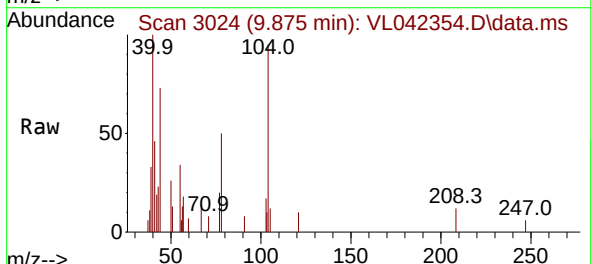
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

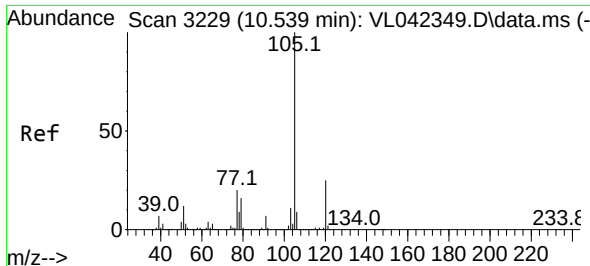
Tgt Ion: 91 Resp: 1938
Ion Ratio Lower Upper
91 100
106 52.6 21.1 63.4



#61
Styrene
Concen: 0.034 ppbv
RT: 9.875 min Scan# 3024
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 104 Resp: 813
Ion Ratio Lower Upper
104 100
78 64.9 44.6 66.8
103 47.1 37.4 56.0

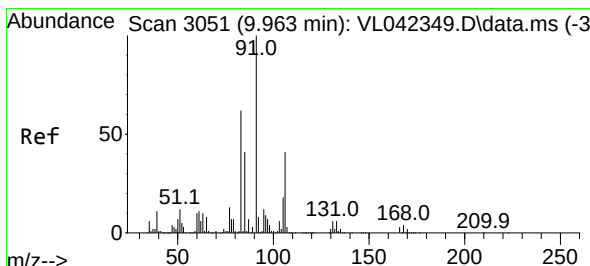
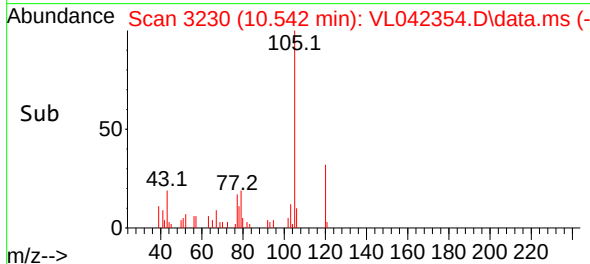
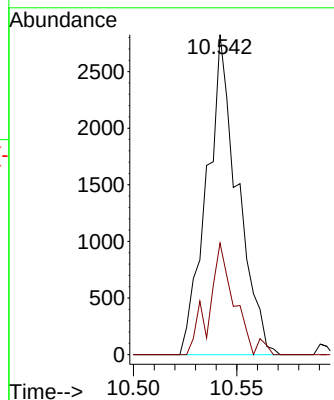
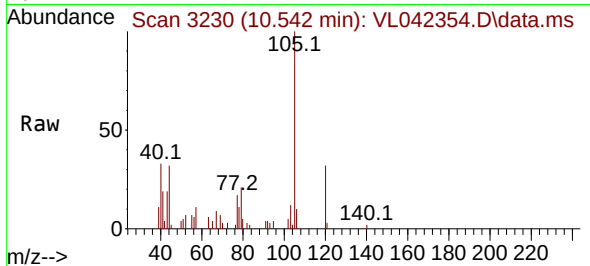




#62
Isopropylbenzene
Concen: 0.040 ppbv
RT: 10.542 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

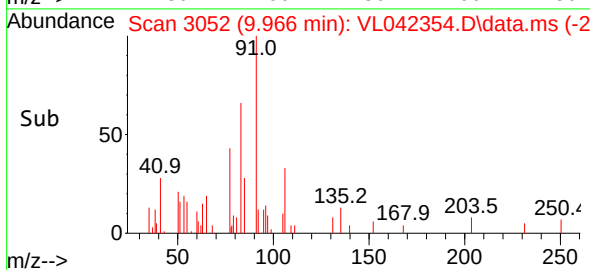
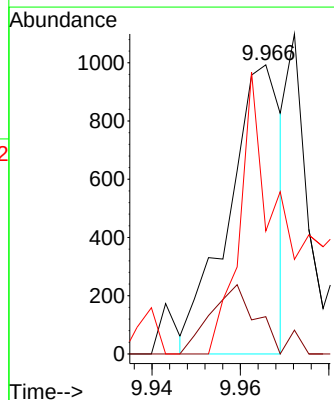
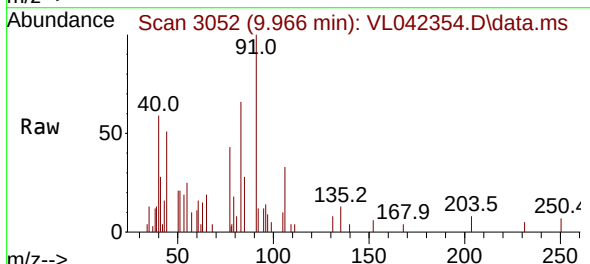
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.03

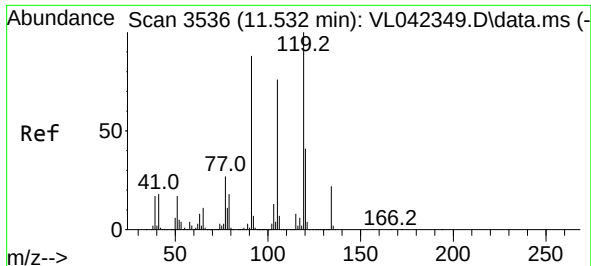
Tgt Ion: 105 Resp: 2934
Ion Ratio Lower Upper
105 100
120 28.8 19.8 29.8



#63
1,1,2,2-Tetrachloroethane
Concen: 0.025 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 83 Resp: 826
Ion Ratio Lower Upper
83 100
131 22.3 4.5 13.7#
85 98.2 32.4 97.0#

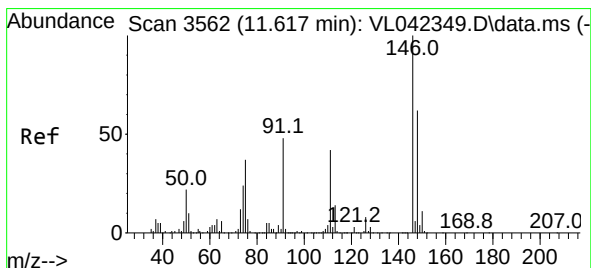
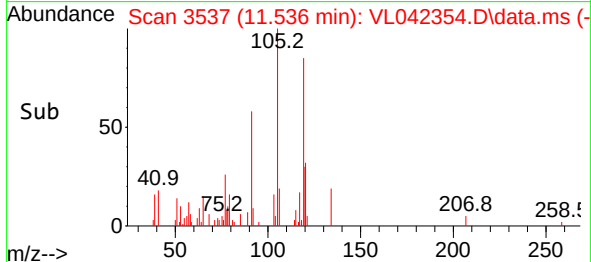
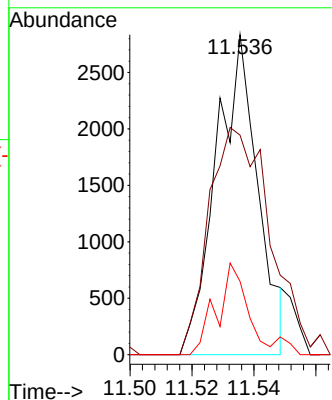
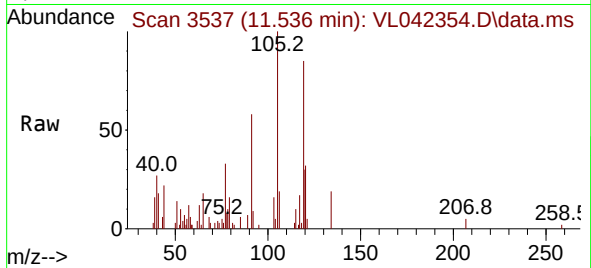




#65
tert-Butylbenzene
Concen: 0.039 ppbv
RT: 11.536 min Scan# 3536
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

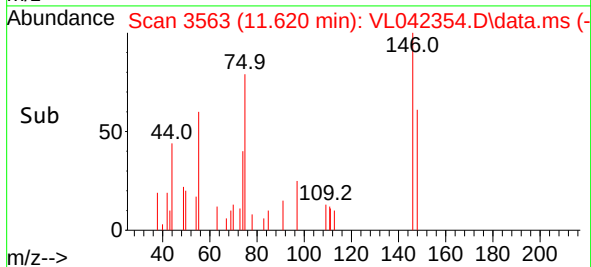
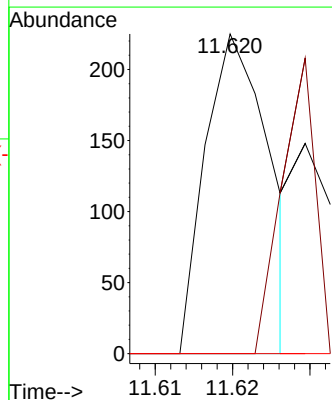
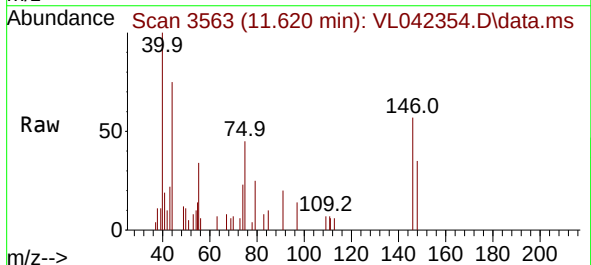
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

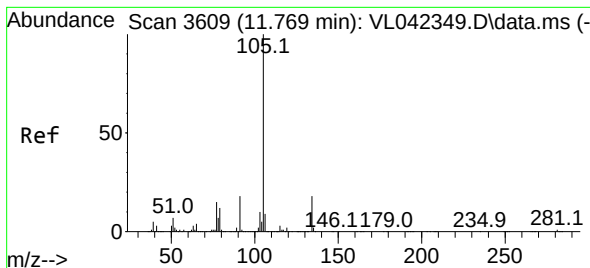
Tgt Ion:	119	Resp:	2656
Ion	Ratio	Lower	Upper
119	100		
91	104.4	74.6	111.8
134	22.5	18.8	28.2



#66
Benzyl Chloride
Concen: 0.017 ppbv
RT: 11.620 min Scan# 3563
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion:	91	Resp:	130
Ion	Ratio	Lower	Upper
91	100		
126	0.0	11.8	17.6#
128	0.0	4.5	6.7#





#67

sec-Butylbenzene

Concen: 0.039 ppbv

RT: 11.772 min Scan# 3

Delta R.T. 0.003 min

Lab File: VL042354.D

Acq: 17 Apr 2025 12:22

Instrument :

MSVOA_1

ClientSampleId :

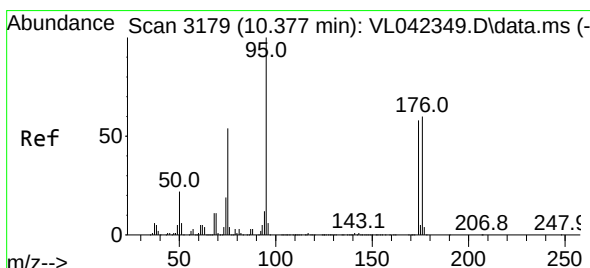
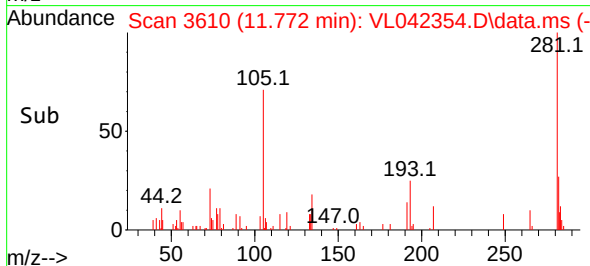
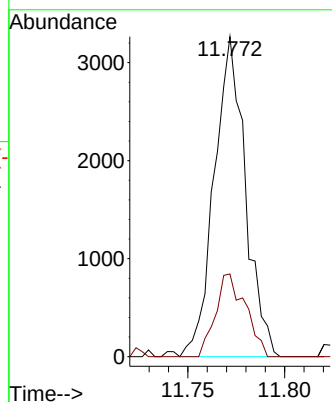
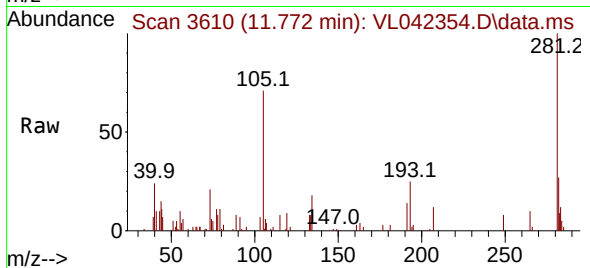
VSTDIC0.03

Tgt Ion:105 Resp: 3658

Ion Ratio Lower Upper

105 100

134 24.8 14.6 21.8#



#68

1-Bromo-4-Fluorobenzene

Concen: 9.962 ppbv

RT: 10.380 min Scan# 3180

Delta R.T. 0.003 min

Lab File: VL042354.D

Acq: 17 Apr 2025 12:22

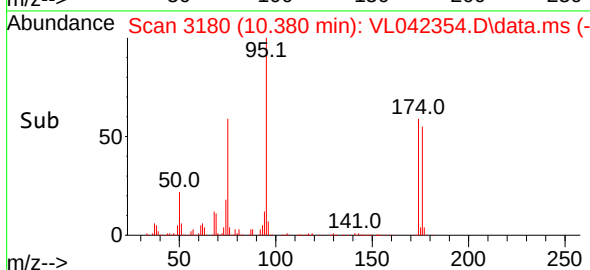
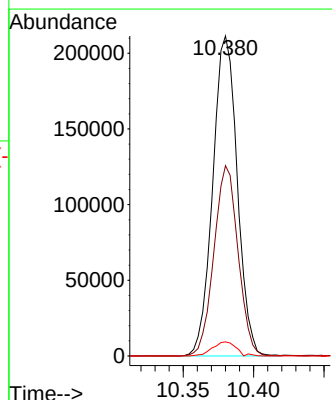
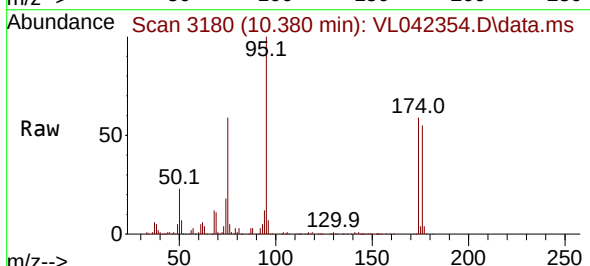
Tgt Ion: 95 Resp: 256230

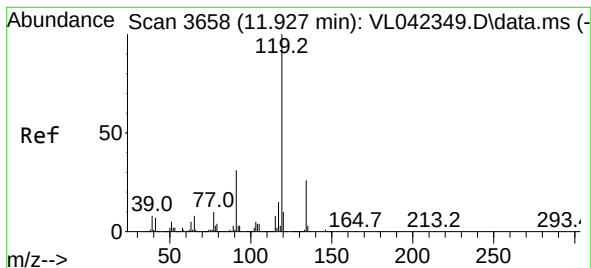
Ion Ratio Lower Upper

95 100

174 58.6 48.5 72.7

175 4.3 3.7 5.5





#69

p-Isopropyltoluene

Concen: 0.038 ppbv

RT: 11.930 min Scan# 3659

Delta R.T. 0.003 min

Lab File: VL042354.D

Acq: 17 Apr 2025 12:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

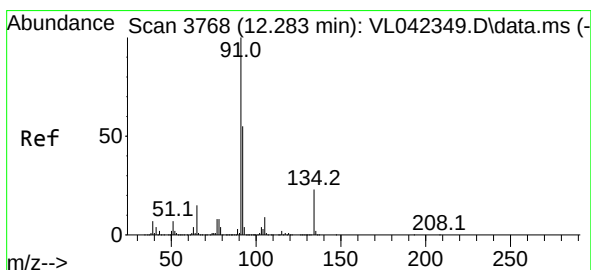
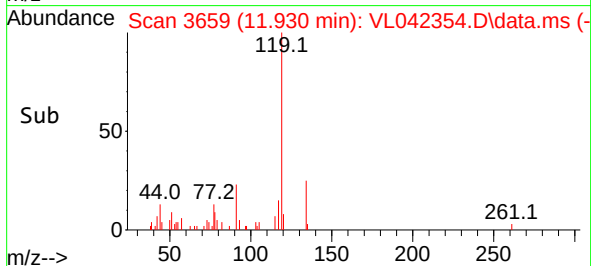
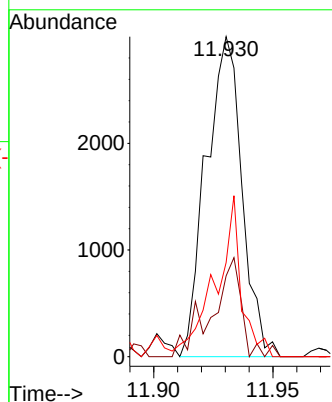
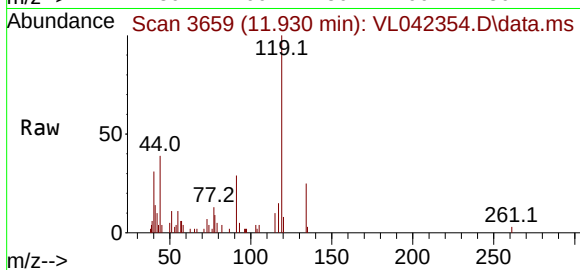
Tgt Ion:119 Resp: 3139

Ion Ratio Lower Upper

119 100

134 25.9 20.0 30.0

91 35.7 24.4 36.6



#70

n-Butylbenzene

Concen: 0.029 ppbv

RT: 12.290 min Scan# 3770

Delta R.T. 0.006 min

Lab File: VL042354.D

Acq: 17 Apr 2025 12:22

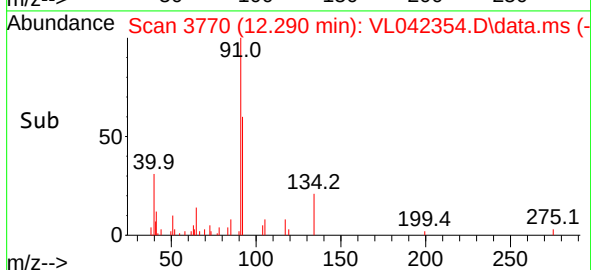
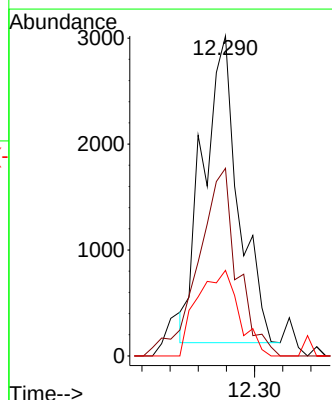
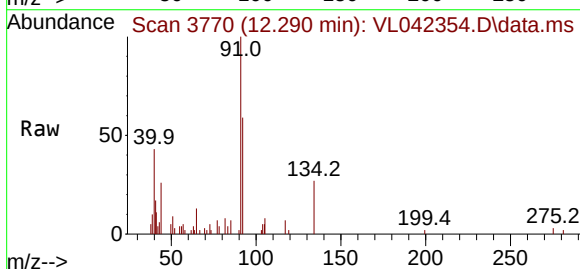
Tgt Ion: 91 Resp: 2516

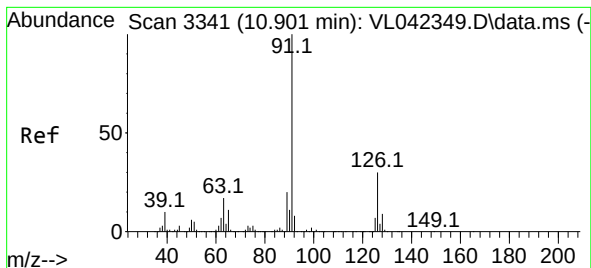
Ion Ratio Lower Upper

91 100

92 67.4 44.2 66.4#

134 34.4 18.2 27.4#

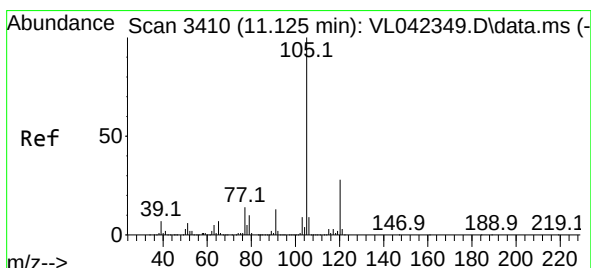
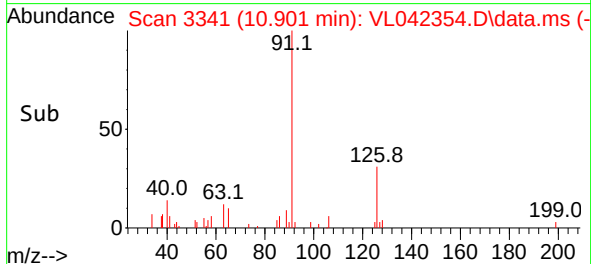
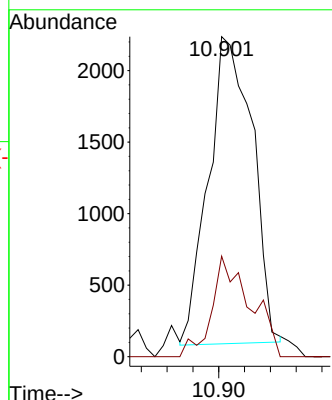
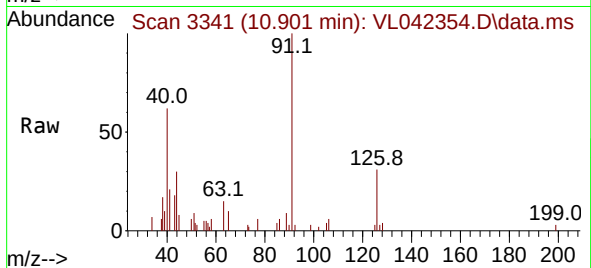




#71
2-Chlorotoluene
Concen: 0.044 ppbv
RT: 10.901 min Scan# 311
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

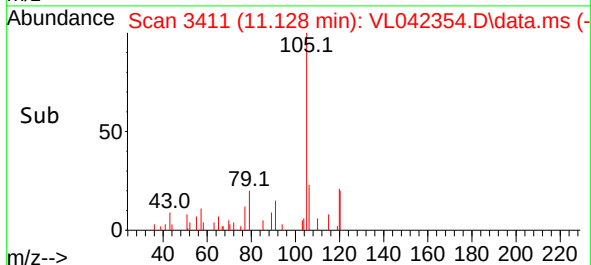
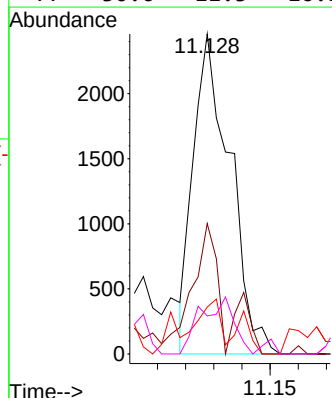
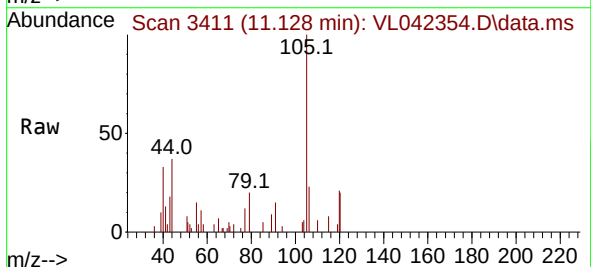
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.03

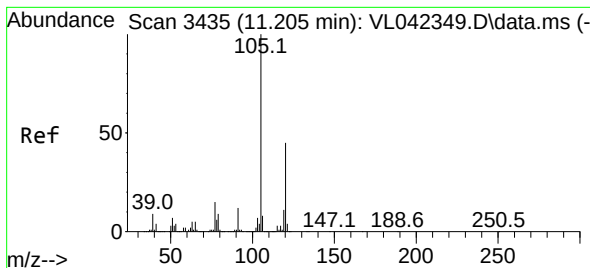
Tgt Ion: 91 Resp: 2537
Ion Ratio Lower Upper
91 100
126 28.7 11.4 45.4



#72
4-Ethyltoluene
Concen: 0.036 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion: 105 Resp: 2221
Ion Ratio Lower Upper
105 100
120 47.5 23.2 34.8#
91 8.3 10.4 15.6#
77 30.6 11.3 16.9#





#73

1,3,5-Trimethylbenzene

Concen: 0.046 ppbv

RT: 11.212 min Scan# 3437

Delta R.T. 0.006 min

Lab File: VL042354.D

Acq: 17 Apr 2025 12:22

Instrument :

MSVOA_1

ClientSampleId :

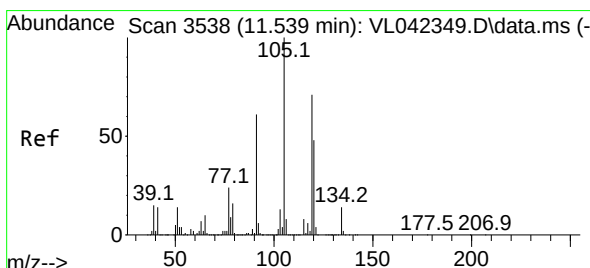
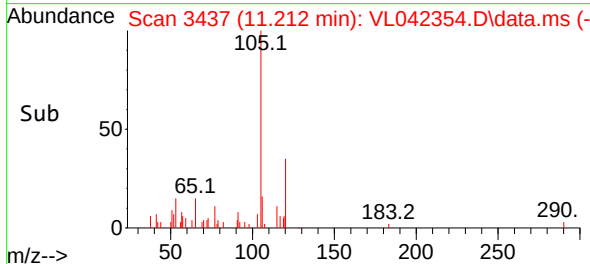
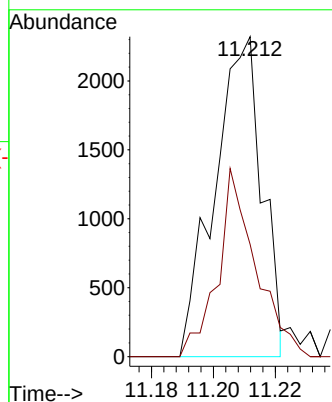
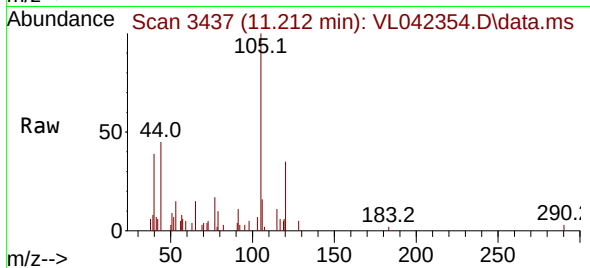
VSTDIC0.03

Tgt Ion:105 Resp: 2473

Ion Ratio Lower Upper

105 100

120 35.1 35.6 53.4#



#74

1,2,4-Trimethylbenzene

Concen: 0.068 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. -0.000 min

Lab File: VL042354.D

Acq: 17 Apr 2025 12:22

Tgt Ion:105 Resp: 4320

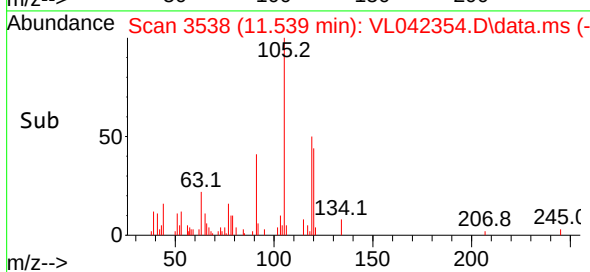
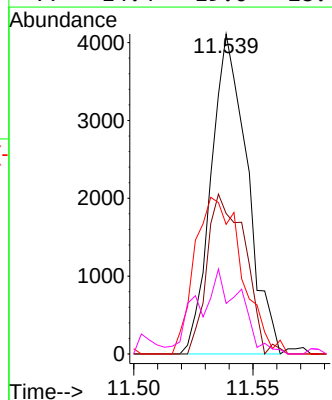
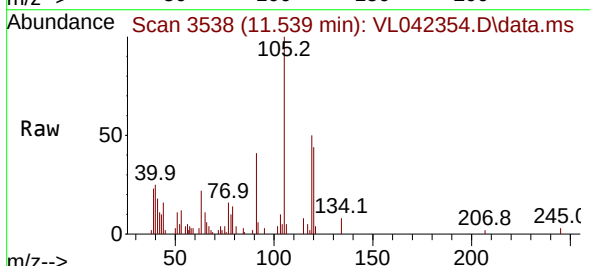
Ion Ratio Lower Upper

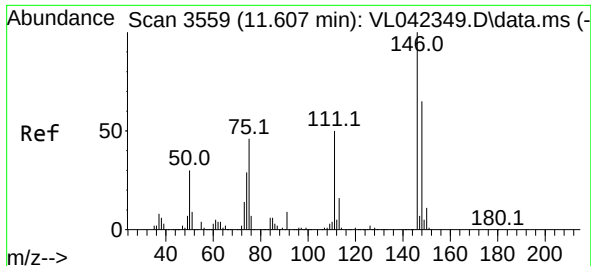
105 100

120 43.9 38.1 57.1

91 36.2 48.8 73.2#

77 14.4 19.0 28.4#

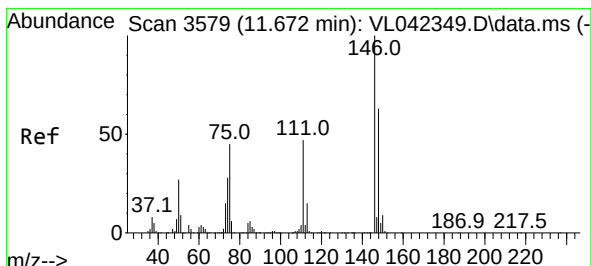
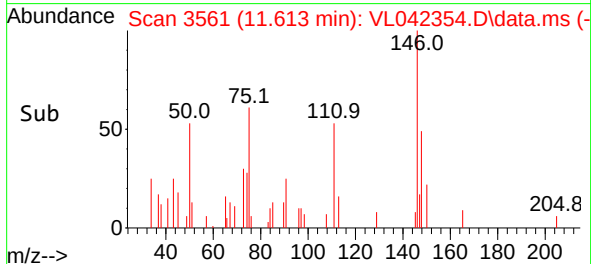
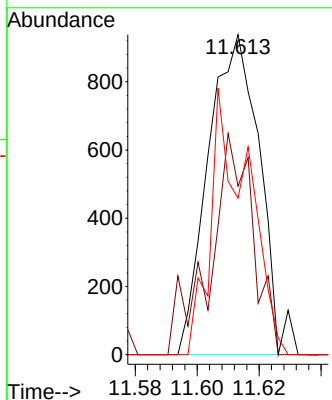
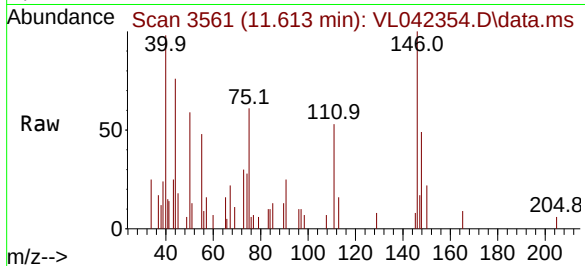




#75
1,3-Dichlorobenzene
Concen: 0.032 ppbv
RT: 11.613 min Scan# 3559
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

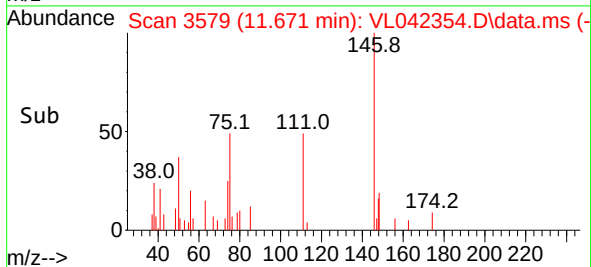
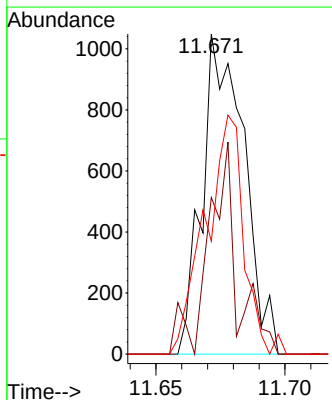
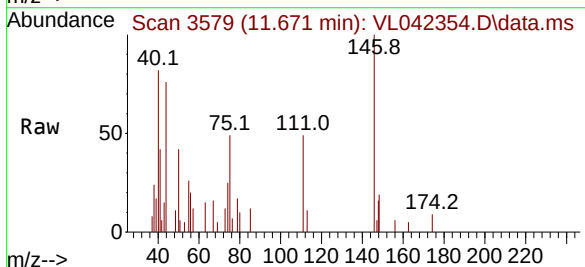
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

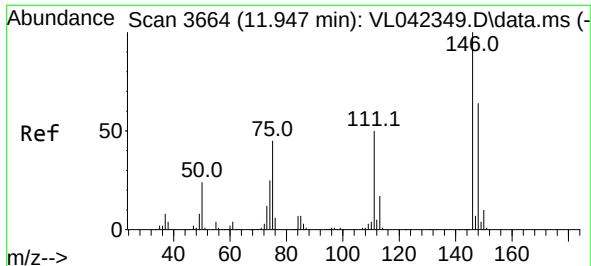
Tgt Ion:146 Resp: 1056
Ion Ratio Lower Upper
146 100
111 61.1 24.3 72.8
148 62.4 31.6 94.8



#76
1,4-Dichlorobenzene
Concen: 0.036 ppbv
RT: 11.671 min Scan# 3579
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion:146 Resp: 1180
Ion Ratio Lower Upper
146 100
111 45.4 24.2 72.6
148 68.3 32.1 96.5

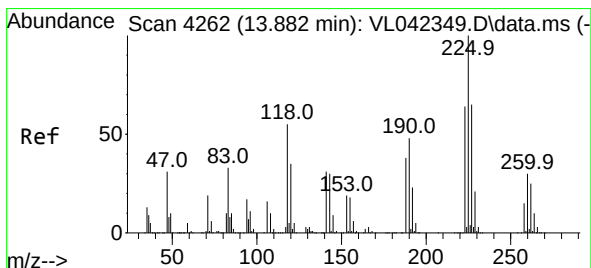
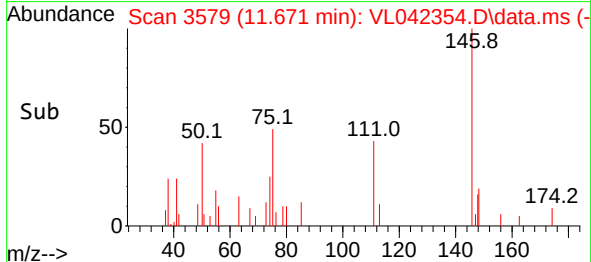
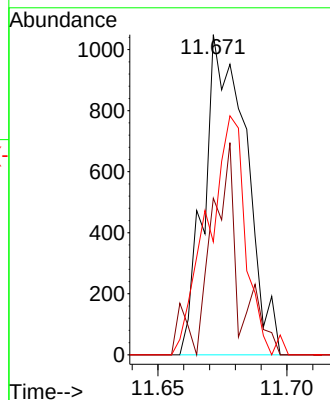
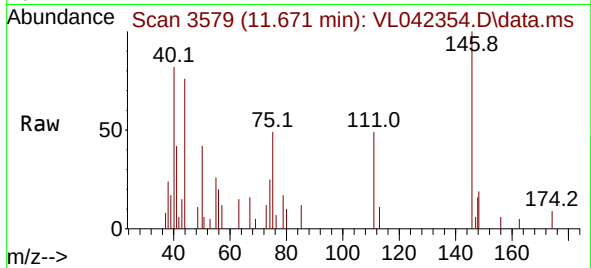




#77
1,2-Dichlorobenzene
Concen: 0.037 ppbv
RT: 11.671 min Scan# 3
Delta R.T. -0.275 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

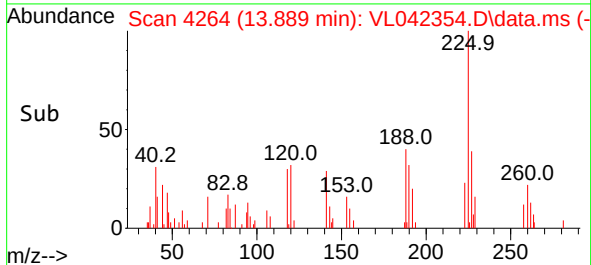
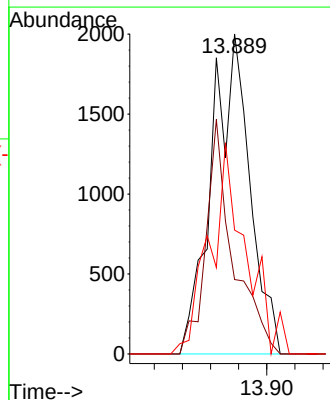
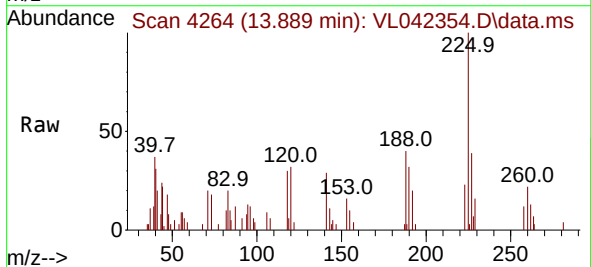
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

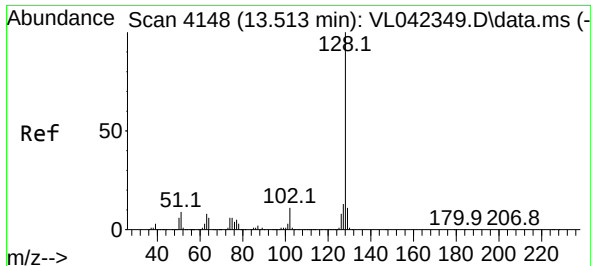
Tgt Ion:146 Resp: 1180
Ion Ratio Lower Upper
146 100
111 45.4 25.3 75.9
148 68.3 31.5 94.5



#78
Hexachloro-1,3-Butadiene
Concen: 0.058 ppbv
RT: 13.889 min Scan# 4264
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

Tgt Ion:225 Resp: 1879
Ion Ratio Lower Upper
225 100
223 52.2 50.3 75.5
227 62.5 51.5 77.3

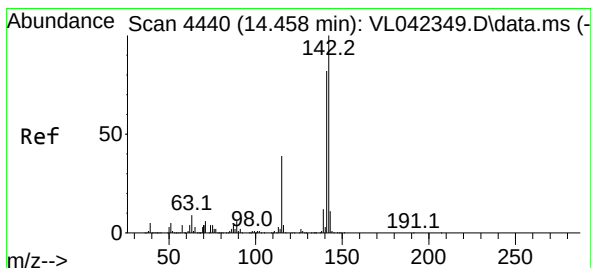
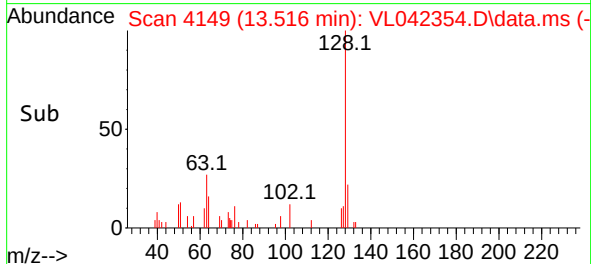
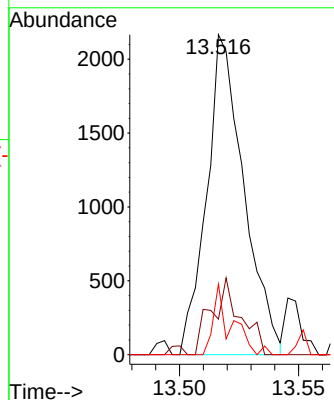
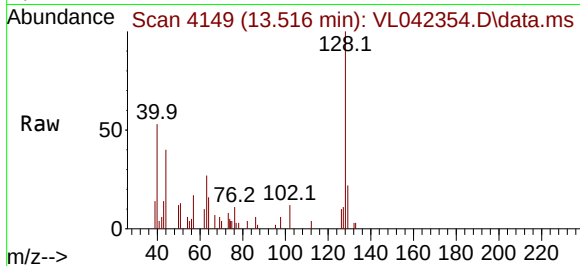




#79
Naphthalene
Concen: 0.031 ppbv
RT: 13.516 min Scan# 4148
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

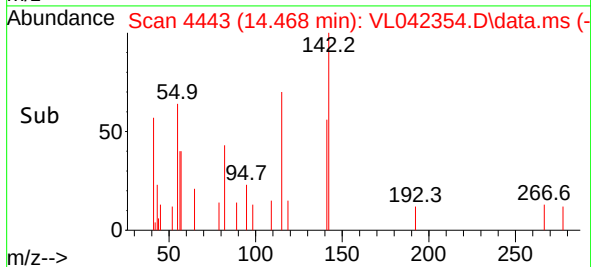
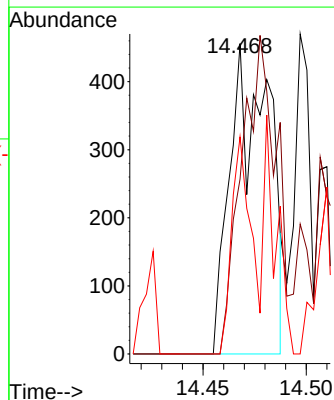
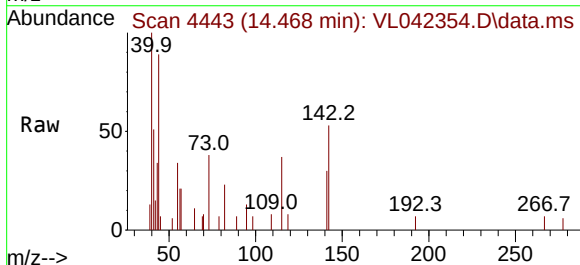
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

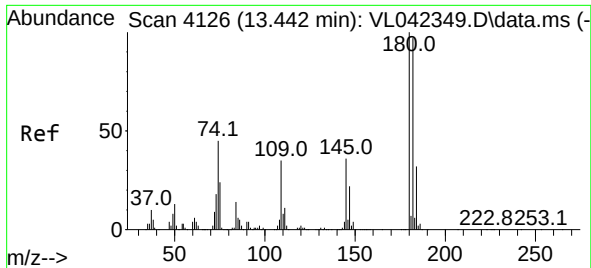
Tgt Ion:128 Resp: 2354
Ion Ratio Lower Upper
128 100
127 11.1 10.6 15.8
129 22.1 8.6 12.8#



#80
Naphthalene,2-methyl-
Concen: 0.014 ppbv
RT: 14.468 min Scan# 4443
Delta R.T. 0.010 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

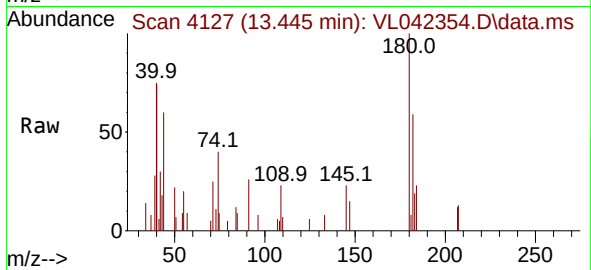
Tgt Ion:142 Resp: 594
Ion Ratio Lower Upper
142 100
141 136.0 66.8 100.2#
115 59.1 33.4 50.2#



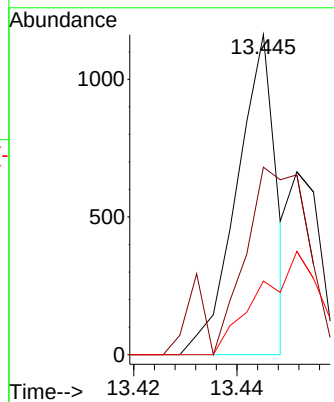
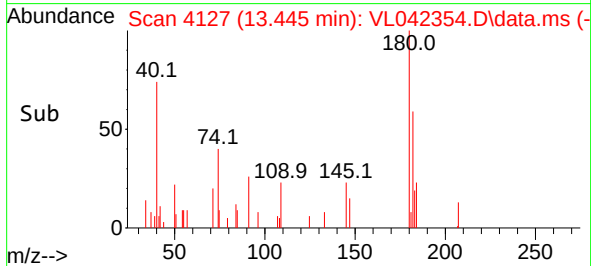


#81
 1,2,4-Trichlorobenzene
 Concen: 0.019 ppbv
 RT: 13.445 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL042354.D
 Acq: 17 Apr 2025 12:22

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03



Tgt Ion:180 Resp: 614
 Ion Ratio Lower Upper
 180 100
 182 116.4 76.8 115.2#
 184 0.0 24.6 36.8#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042355.D
 Acq On : 17 Apr 2025 12:54
 Operator : SY/MD
 Sample : VSTDIC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Quant Time: Apr 18 01:31:10 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 01:24:29 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	116071	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	332080	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	308463	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	254437	10.038	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.400%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	292784	14.277	ppbv	99
3) Chlorodifluoromethane	1.477	51	280042	14.341	ppbv	98
4) Chloromethane	1.532	50	115775	14.266	ppbv	99
5) Vinyl Chloride	1.580	62	112650	12.752	ppbv	100
6) Bromomethane	1.667	94	52805	13.800	ppbv	88
7) Chloroethane	1.703	64	44347	13.881	ppbv	98
8) Dichlorotetrafluoroethane	1.554	85	255029	14.484	ppbv	98
9) Propene	1.483	41	123102	13.842	ppbv	95
10) Heptane	4.979	43	336134	14.047	ppbv	100
11) Trichlorofluoromethane	1.875	101	278059	14.258	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.137	101	230366	14.447	ppbv	99
13) Ethanol	1.719	45	6324	8.702	ppbv	76
14) Bromoethene	1.781	108	84851	14.117	ppbv	99
15) Acetone	1.833	43	229086	12.056	ppbv	99
16) 1,3-Butadiene	1.609	39	117997	13.224	ppbv	96
17) tert-Butyl alcohol	2.040	59	320605	13.615	ppbv	99
18) 1,1-Dichloroethene	2.033	96	107666	14.045	ppbv	99
19) Isopropyl Alcohol	1.884	45	139004	13.169	ppbv	94
20) Methylene Chloride	2.059	84	91093	12.241	ppbv	90
21) Allyl Chloride	2.095	41	187995	14.329	ppbv	99
22) trans-1,2-Dichloroethene	2.341	96	118492	13.970	ppbv	94
23) Vinyl Acetate	2.460	43	106135	13.799	ppbv #	98
24) 1,1-Dichloroethane	2.409	63	235466	14.615	ppbv	99
25) Ethyl Acetate	2.836	43	663644	14.166	ppbv	100
26) Hexane	2.826	57	260975	13.765	ppbv	97
27) Carbon Disulfide	2.150	76	299098	14.734	ppbv	97
28) Methyl tert-Butyl Ether	2.438	73	174855	14.076	ppbv	95
29) Chloroform	2.849	83	385686	14.393	ppbv	99
30) Cyclohexane	3.855	84	217375	14.238	ppbv	98
31) cis-1,2-Dichloroethene	2.719	61	264972	14.700	ppbv	98
32) 1,1,1-Trichloroethane	3.367	97	412537	14.357	ppbv	99
34) 2-Butanone	2.558	43	367315	13.986	ppbv	100
35) Carbon Tetrachloride	3.762	117	409916	13.639	ppbv	94
36) Benzene	3.655	78	522156	14.578	ppbv	97
37) 1,2-Dichloroethane	3.218	62	319517	14.863	ppbv	100
38) Trichloroethene	4.548	130	208508	13.278	ppbv	98
39) 1,2-Dichloropropane	4.312	63	189697	14.201	ppbv	97
40) 1,4-Dioxane	4.580	88	92114	12.733	ppbv #	95
41) Tetrahydrofuran	3.053	42	214949	14.166	ppbv	98
42) Bromodichloromethane	4.490	83	442735	14.798	ppbv	95
43) Methyl Methacrylate	4.878	69	219757	13.670	ppbv	95
44) 2,2,4-Trimethylpentane	4.642	57	893529	14.425	ppbv	99
45) t-1,3-Dichloropropene	6.412	75	244470	14.810	ppbv	94

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042355.D
 Acq On : 17 Apr 2025 12:54
 Operator : SY/MD
 Sample : VSTDIC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

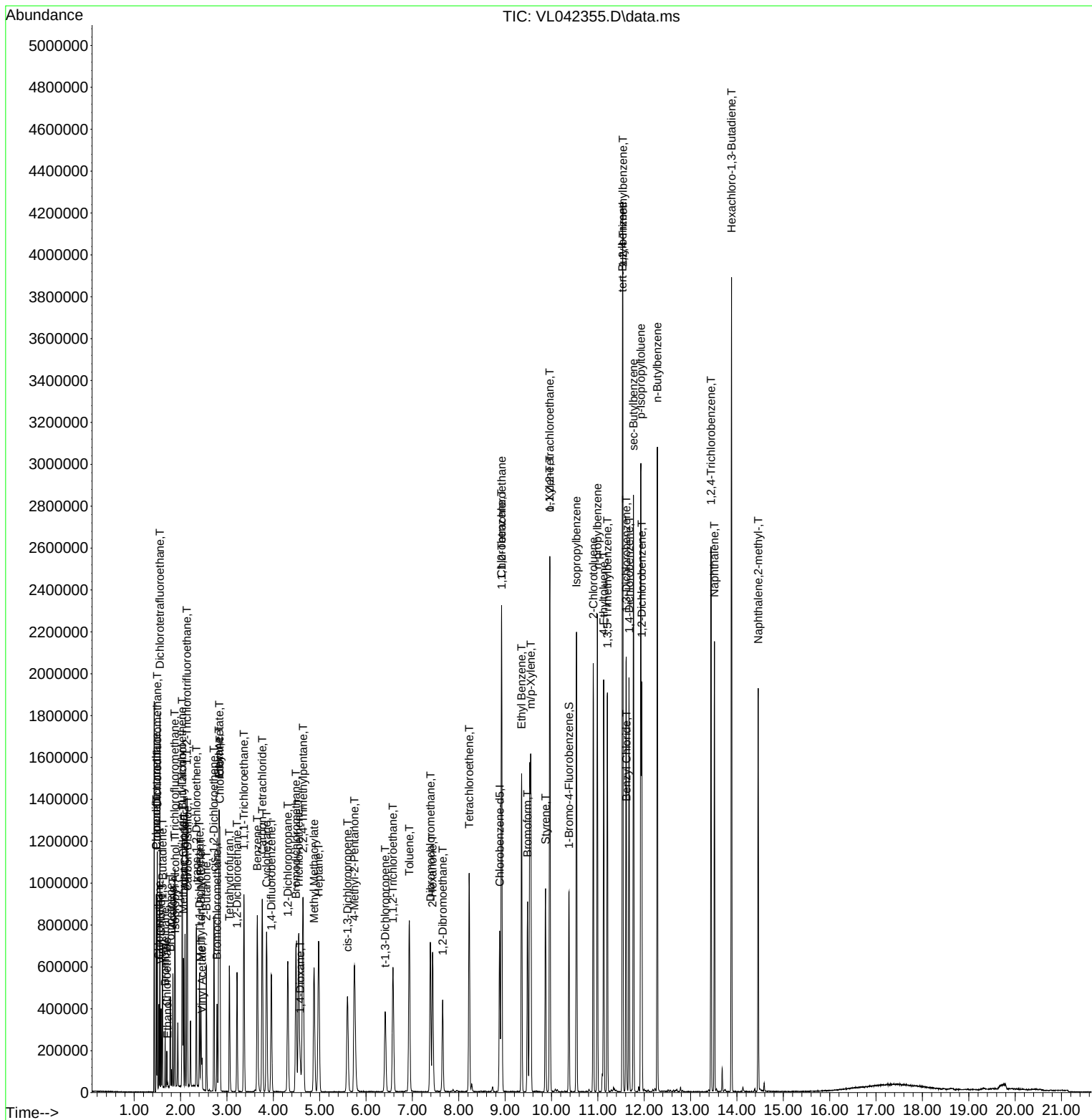
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 MSVOA_L
 ClientSampleId :
 VSTDIC015

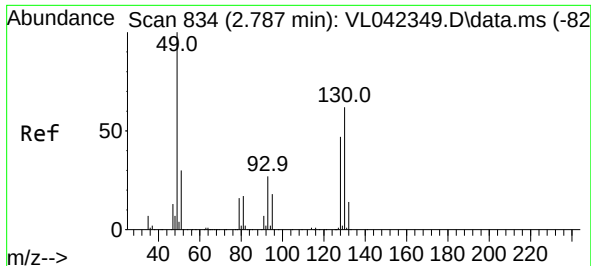
Quant Time: Apr 18 01:31:10 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 01:24:29 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.600	75	300145	14.878	ppbv	90
47) 1,1,2-Trichloroethane	6.581	97	198874	14.615	ppbv	98
48) Dibromochloromethane	7.390	129	362887	15.105	ppbv	98
49) Bromoform	9.484	173	312282	14.865	ppbv	99
50) 4-Methyl-2-Pentanone	5.749	43	563658	12.889	ppbv	99
51) 2-Hexanone	7.435	43	467001	11.834	ppbv #	98
52) Tetrachloroethene	8.225	164	180631	13.046	ppbv	97
53) Toluene	6.933	91	619420	14.411	ppbv	99
54) 1,2-Dibromoethane	7.652	107	280071	14.442	ppbv	92
56) 1,1,1,2-Tetrachloroethane	8.927	131	268626	14.389	ppbv	97
57) Chlorobenzene	8.921	112	454017	14.151	ppbv	97
58) Ethyl Benzene	9.354	91	874424	14.308	ppbv	100
59) m/p-Xylene	9.552	91	645250	13.067	ppbv #	21
60) o-Xylene	9.963	91	689246	13.902	ppbv	99
61) Styrene	9.872	104	339508	14.347	ppbv	99
62) Isopropylbenzene	10.539	105	1018968	13.999	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.963	83	412898	12.816	ppbv	100
64) n-propylbenzene	10.989	120	260812	14.255	ppbv	94
65) tert-Butylbenzene	11.533	119	899720	13.449	ppbv	93
66) Benzyl Chloride	11.617	91	96016	13.061	ppbv	96
67) sec-Butylbenzene	11.769	105	1253263	13.468	ppbv	100
69) p-Isopropyltoluene	11.928	119	1081850	13.382	ppbv	99
70) n-Butylbenzene	12.284	91	1117042	13.266	ppbv	100
71) 2-Chlorotoluene	10.902	91	806728	14.131	ppbv	100
72) 4-Ethyltoluene	11.125	105	848077	13.992	ppbv	99
73) 1,3,5-Trimethylbenzene	11.206	105	726558	13.578	ppbv	99
74) 1,2,4-Trimethylbenzene	11.539	105	785772	12.572	ppbv	97
75) 1,3-Dichlorobenzene	11.610	146	444086	13.670	ppbv	99
76) 1,4-Dichlorobenzene	11.672	146	450662	13.802	ppbv	98
77) 1,2-Dichlorobenzene	11.947	146	427372	13.529	ppbv	99
78) Hexachloro-1,3-Butadiene	13.883	225	404441	12.679	ppbv	100
79) Naphthalene	13.514	128	944085	12.632	ppbv	98
80) Naphthalene,2-methyl-	14.459	142	540339	12.686	ppbv	99
81) 1,2,4-Trichlorobenzene	13.442	180	429982	13.398	ppbv	98

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

Quant Time: Apr 18 01:31:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 2.787 min Scan# 834

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

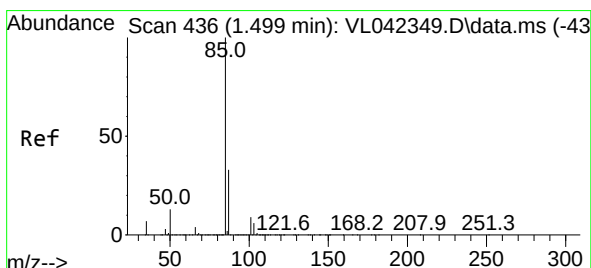
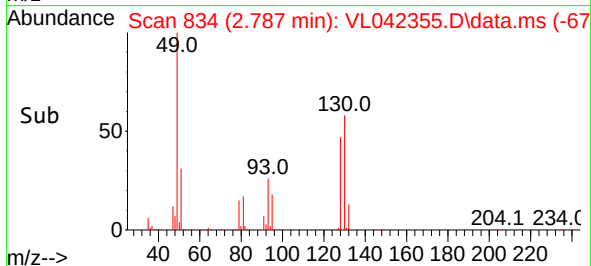
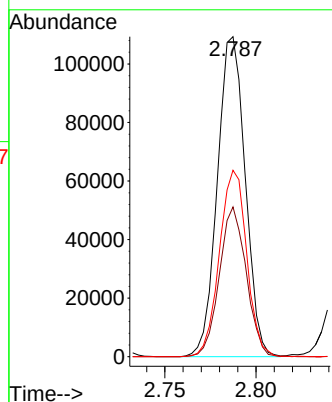
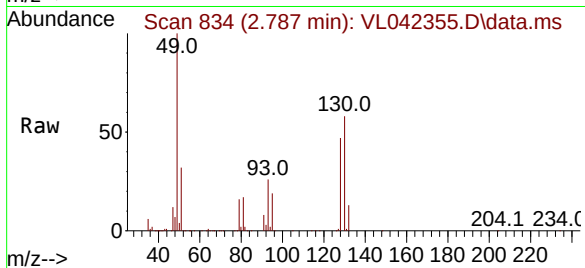
Tgt Ion: 49 Resp: 116071

Ion Ratio Lower Upper

49 100

128 45.1 22.8 68.4

130 57.1 29.3 88.0



#2

Dichlorodifluoromethane

Concen: 14.277 ppbv

RT: 1.499 min Scan# 436

Delta R.T. 0.000 min

Lab File: VL042355.D

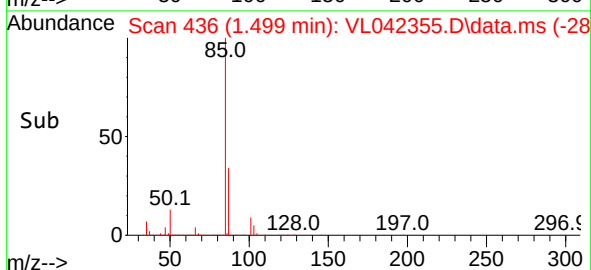
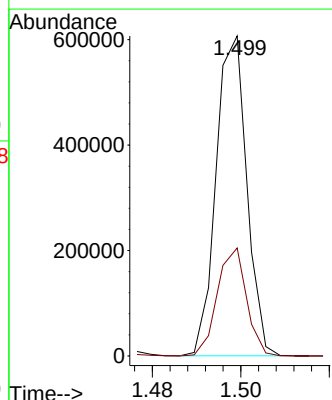
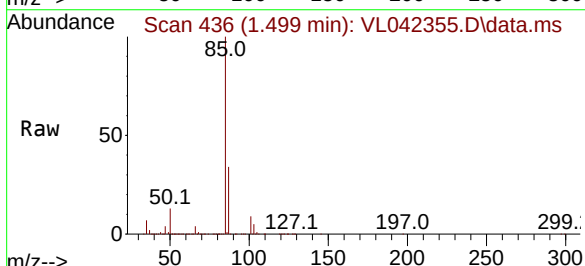
Acq: 17 Apr 2025 12:54

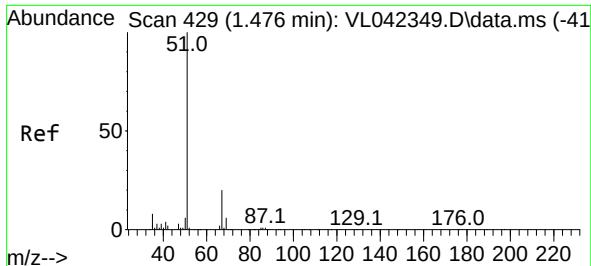
Tgt Ion: 85 Resp: 292784

Ion Ratio Lower Upper

85 100

87 33.8 26.6 39.8

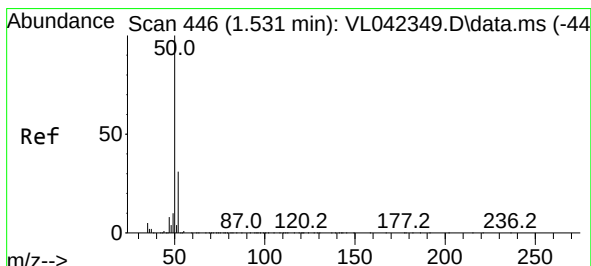
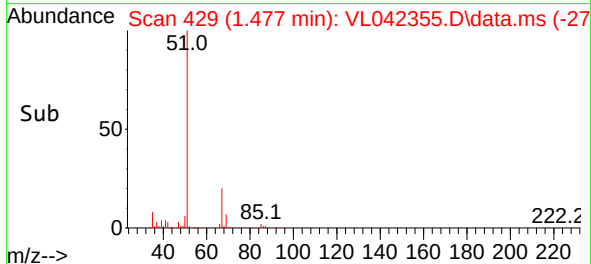
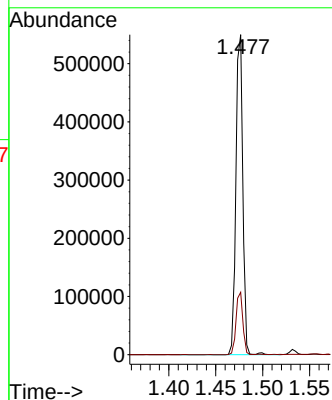
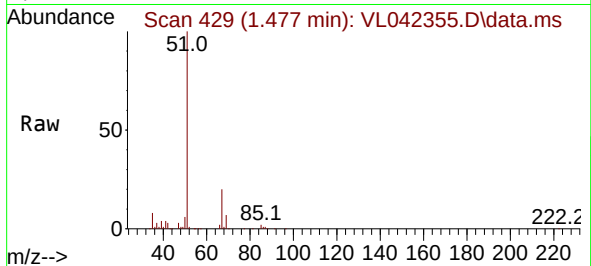




#3
Chlorodifluoromethane
Concen: 14.341 ppbv
RT: 1.477 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

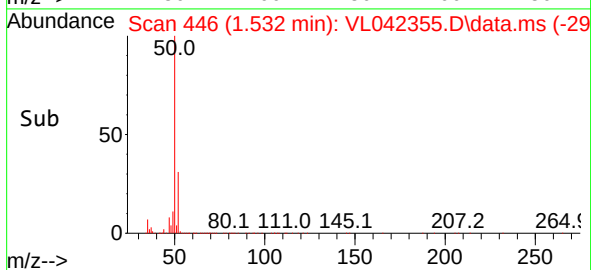
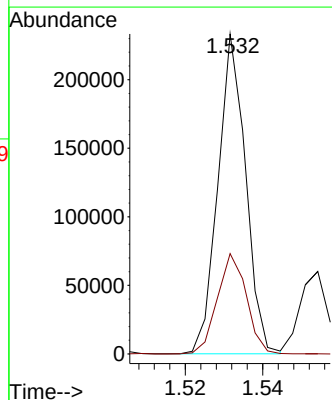
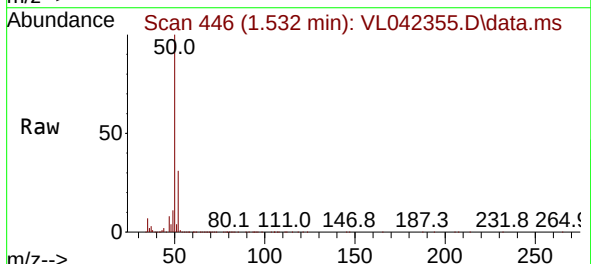
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

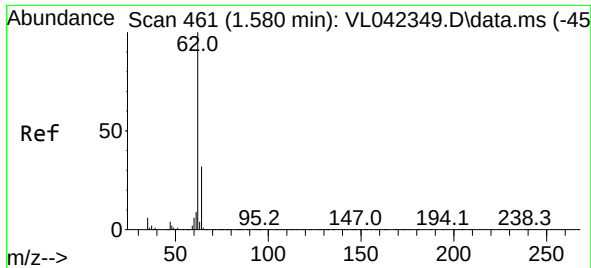
Tgt Ion: 51 Resp: 280042
Ion Ratio Lower Upper
51 100
67 19.5 16.2 24.4



#4
Chloromethane
Concen: 14.266 ppbv
RT: 1.532 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 50 Resp: 115775
Ion Ratio Lower Upper
50 100
52 31.3 24.7 37.1

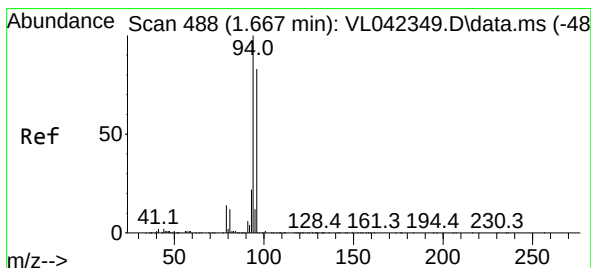
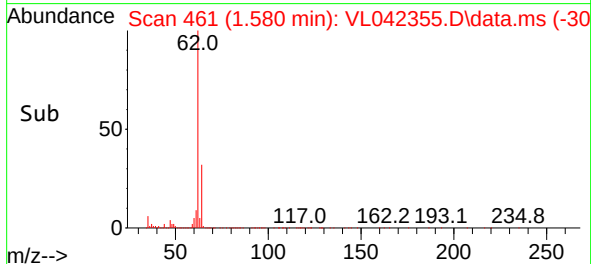
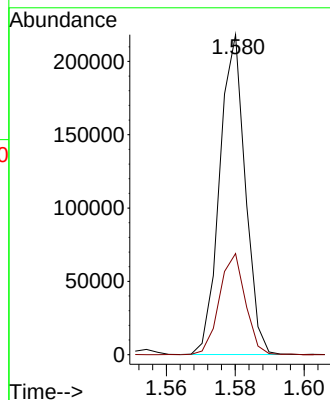
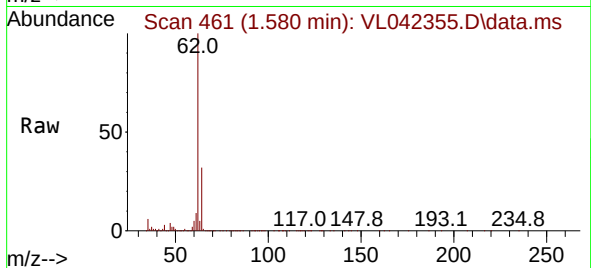




#5
 Vinyl Chloride
 Concen: 12.752 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. 0.000 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54

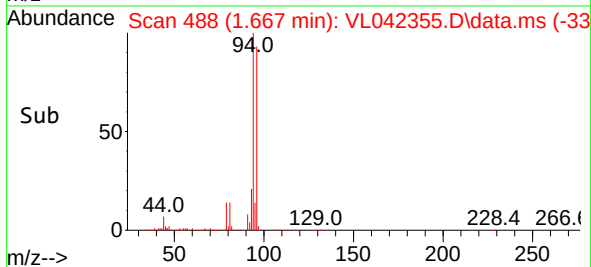
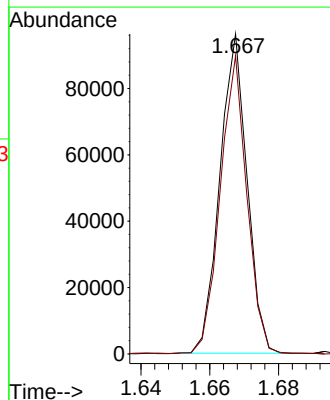
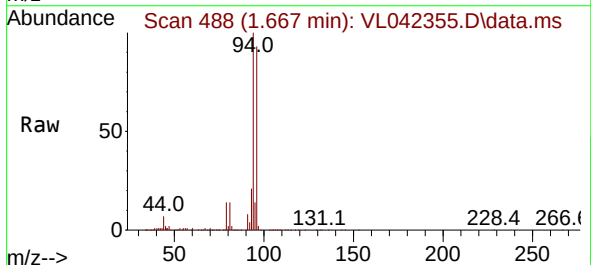
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC015

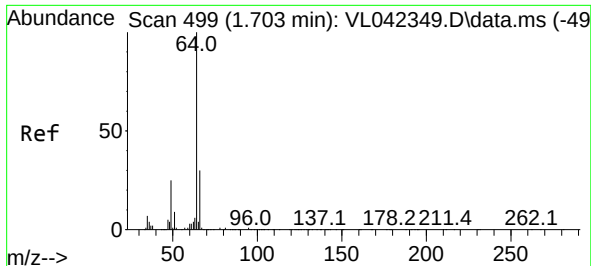
Tgt Ion: 62 Resp: 112650
 Ion Ratio Lower Upper
 62 100
 64 31.6 25.4 38.0



#6
 Bromomethane
 Concen: 13.800 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. 0.000 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54

Tgt Ion: 94 Resp: 52805
 Ion Ratio Lower Upper
 94 100
 96 93.1 66.2 99.2

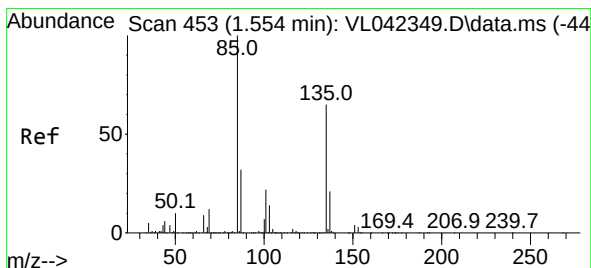
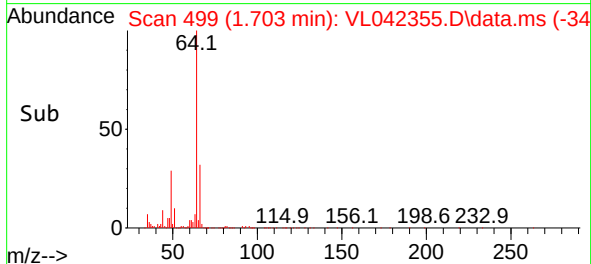
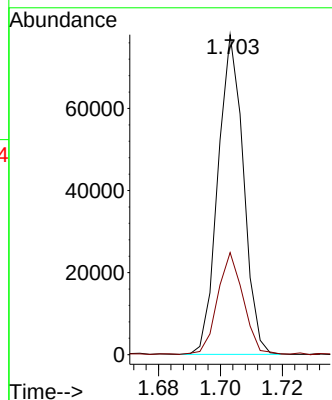
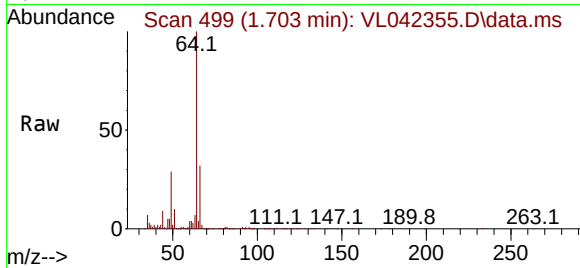




#7
Chloroethane
Concen: 13.881 ppbv
RT: 1.703 min Scan# 499
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

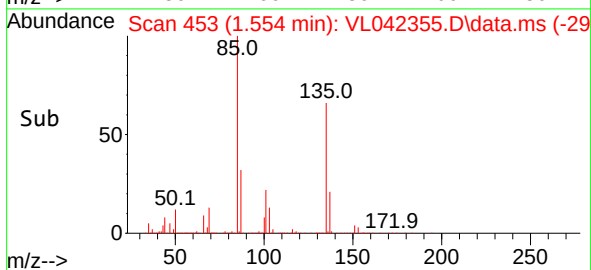
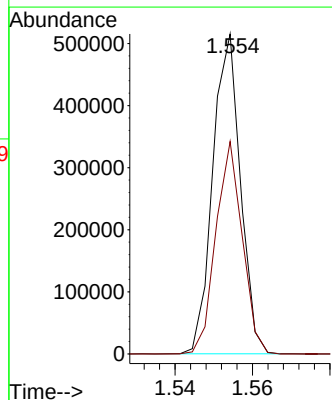
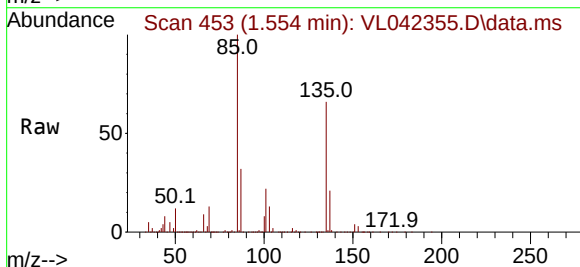
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

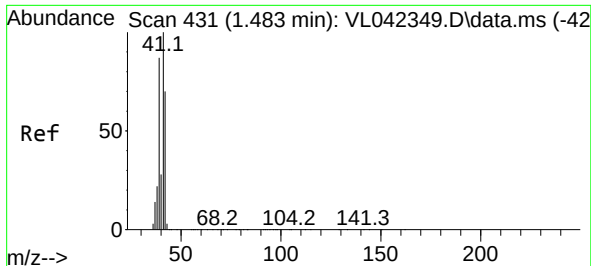
Tgt Ion: 64 Resp: 44347
Ion Ratio Lower Upper
64 100
66 31.9 24.6 37.0



#8
Dichlorotetrafluoroethane
Concen: 14.484 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 85 Resp: 255029
Ion Ratio Lower Upper
85 100
135 63.6 52.2 78.2





#9

Propene

Concen: 13.842 ppbv

RT: 1.483 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Instrument :

MSVOA_L

ClientSampleId :

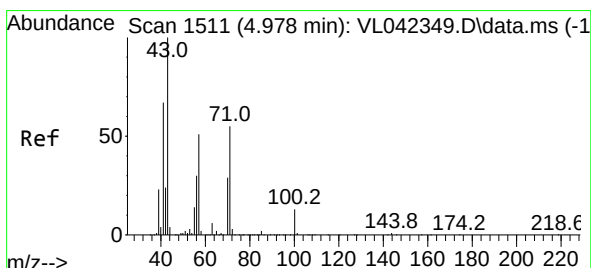
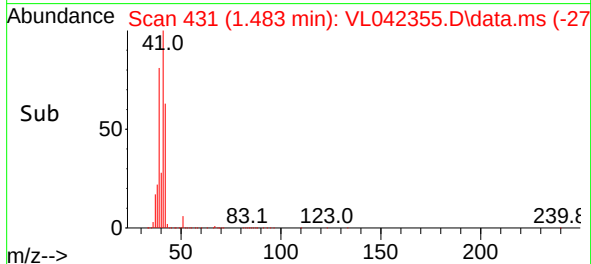
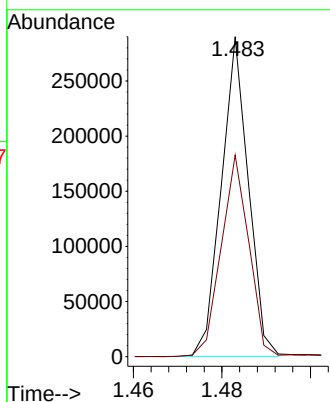
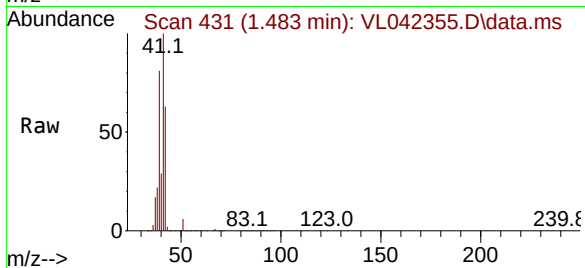
VSTDIC015

Tgt Ion: 41 Resp: 123102

Ion Ratio Lower Upper

41 100

42 66.0 56.2 84.4



#10

Heptane

Concen: 14.047 ppbv

RT: 4.979 min Scan# 1511

Delta R.T. 0.000 min

Lab File: VL042355.D

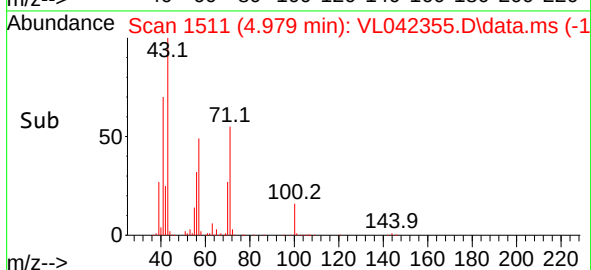
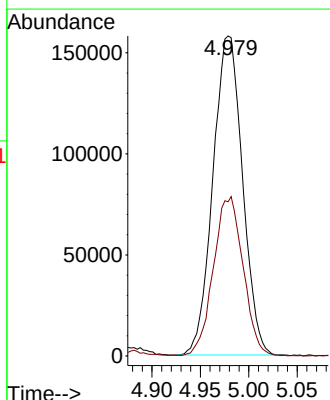
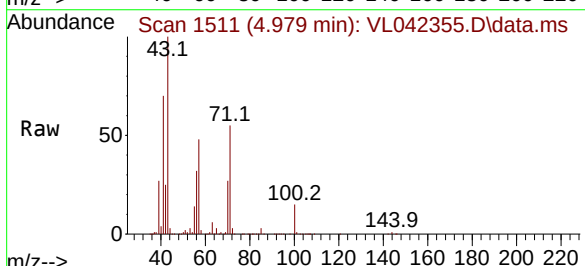
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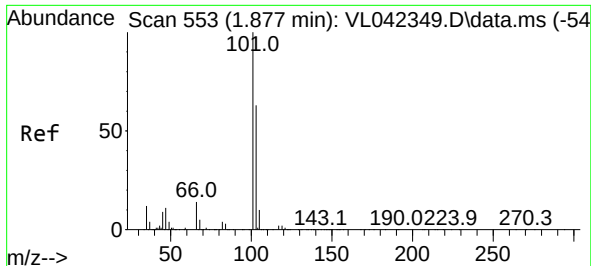
Tgt Ion: 43 Resp: 336134

Ion Ratio Lower Upper

43 100

57 50.0 39.9 59.9

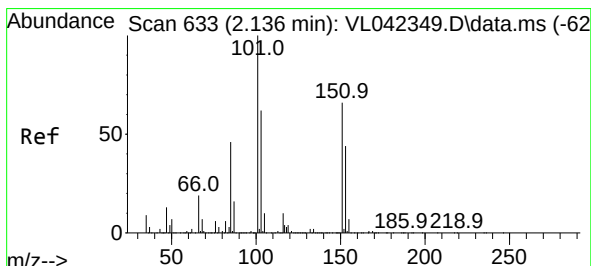
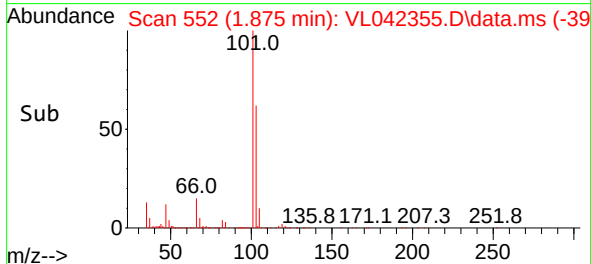
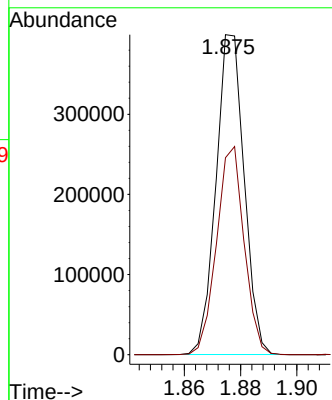
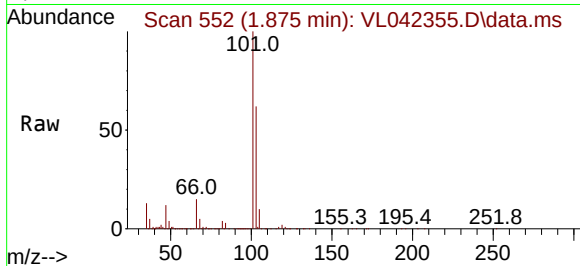




#11
 Trichlorofluoromethane
 Concen: 14.258 ppbv
 RT: 1.875 min Scan# 511
 Delta R.T. -0.003 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54

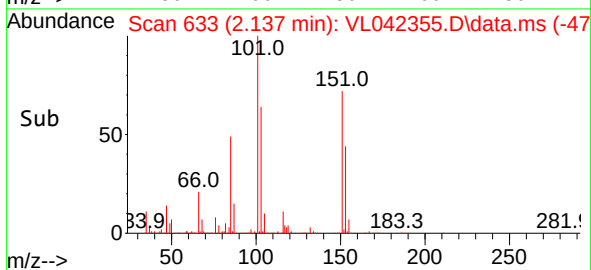
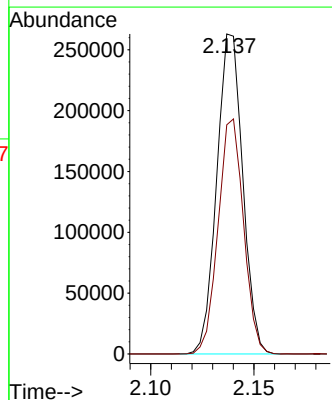
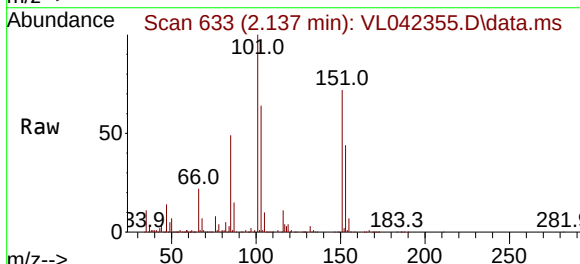
Instrument :
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 ClientSampleId :
 VSTDIC015

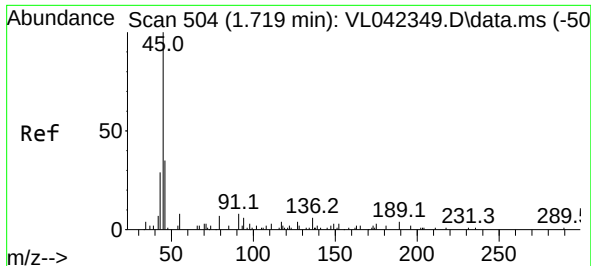
Tgt Ion:101 Resp: 278059
 Ion Ratio Lower Upper
 101 100
 103 61.6 50.1 75.1



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 14.447 ppbv
 RT: 2.137 min Scan# 633
 Delta R.T. 0.000 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54

Tgt Ion:101 Resp: 230366
 Ion Ratio Lower Upper
 101 100
 151 71.8 57.0 85.6

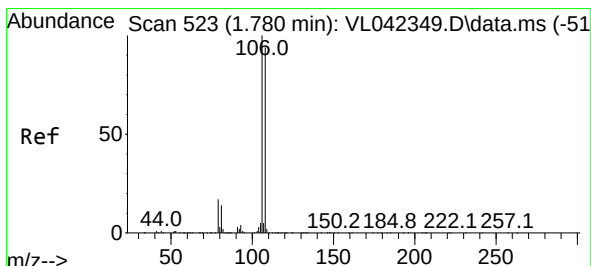
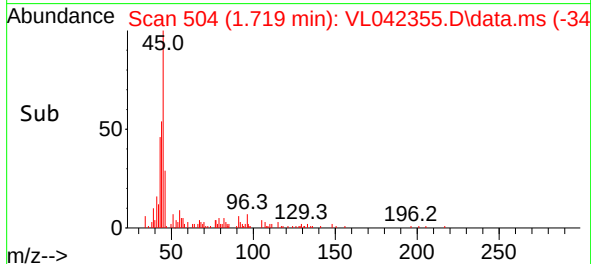
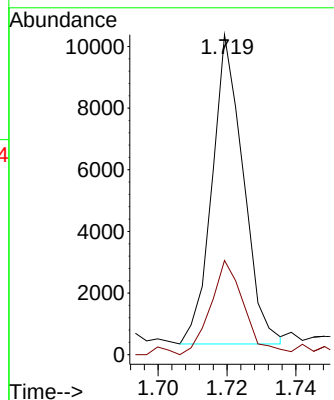
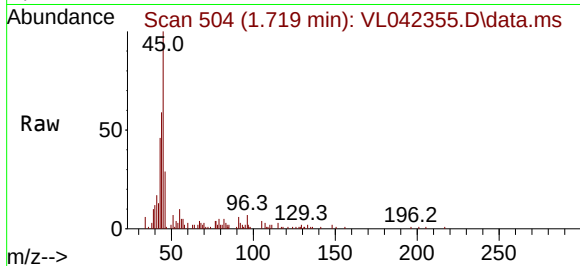




#13
 Ethanol
 Concen: 8.702 ppbv
 RT: 1.719 min Scan# 504
 Delta R.T. 0.000 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54

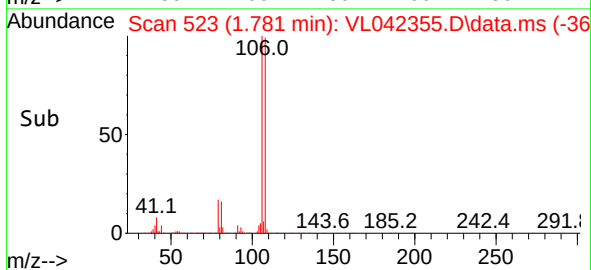
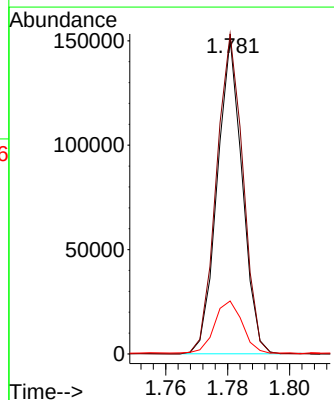
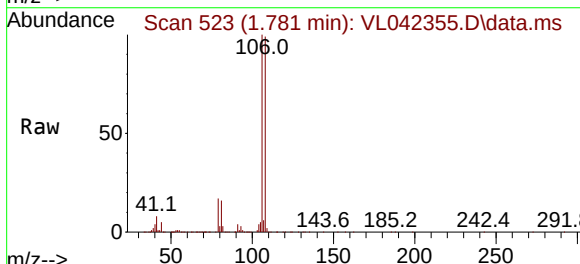
Instrument :
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 ClientSampleId :
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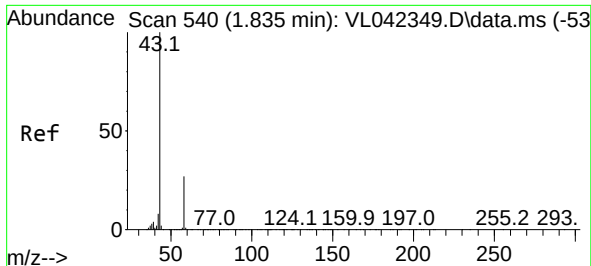
Tgt Ion: 45 Resp: 6324
 Ion Ratio Lower Upper
 45 100
 46 37.6 21.9 87.7



#14
 Bromoethene
 Concen: 14.117 ppbv
 RT: 1.781 min Scan# 523
 Delta R.T. 0.000 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54

Tgt Ion: 108 Resp: 84851
 Ion Ratio Lower Upper
 108 100
 106 107.5 85.9 128.9
 79 19.3 13.9 20.9

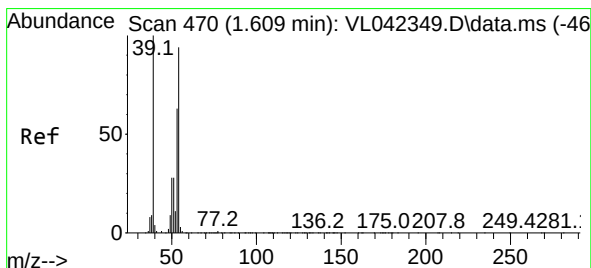
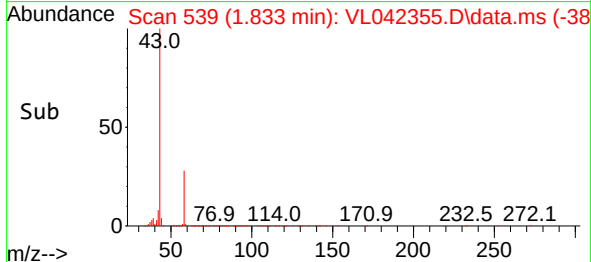
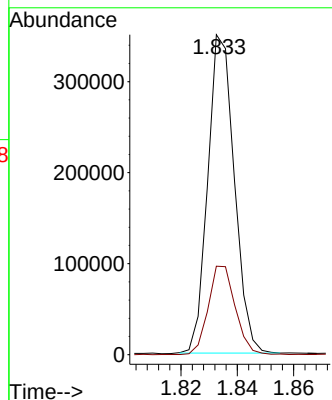
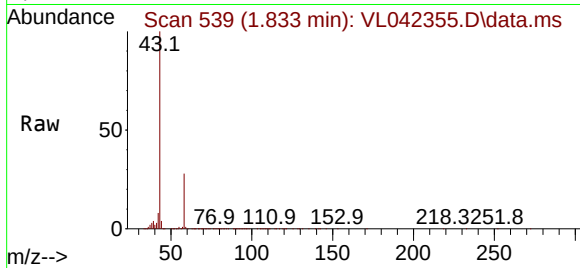




#15
Acetone
Concen: 12.056 ppbv
RT: 1.833 min Scan# 51
Delta R.T. -0.003 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

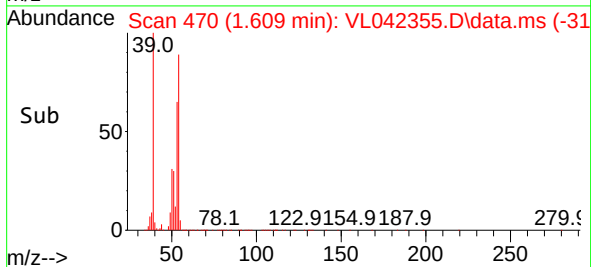
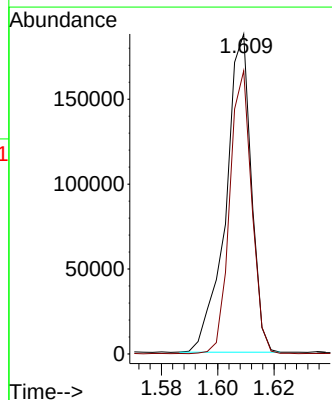
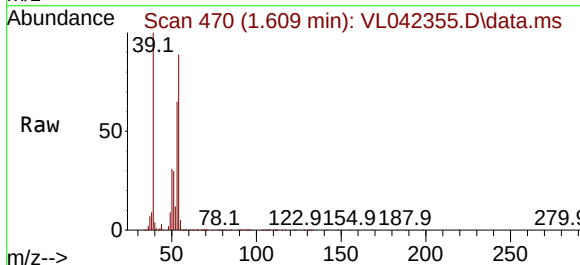
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

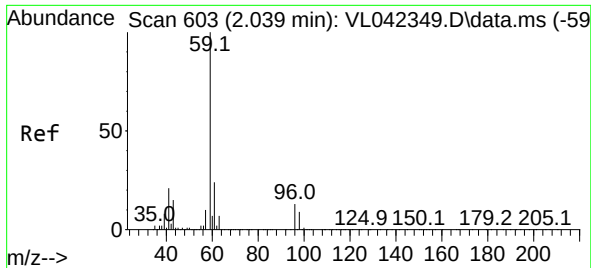
Tgt Ion: 43 Resp: 229086
Ion Ratio Lower Upper
43 100
58 28.4 22.4 33.6



#16
1,3-Butadiene
Concen: 13.224 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 39 Resp: 117997
Ion Ratio Lower Upper
39 100
54 77.2 64.9 97.3

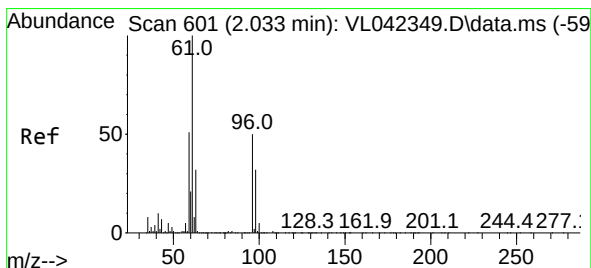
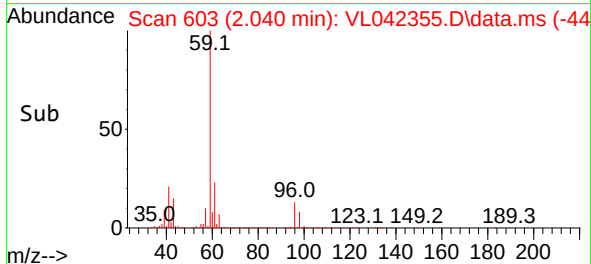
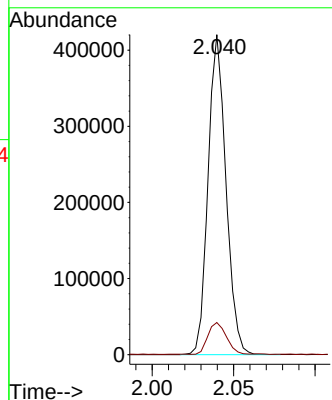
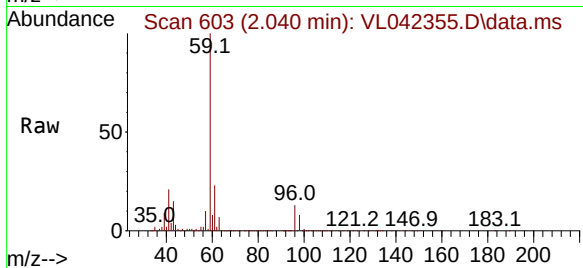




#17
tert-Butyl alcohol
Concen: 13.615 ppbv
RT: 2.040 min Scan# 603
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

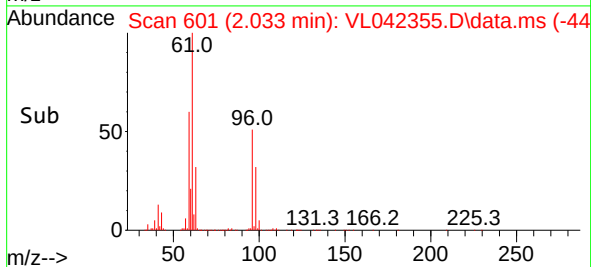
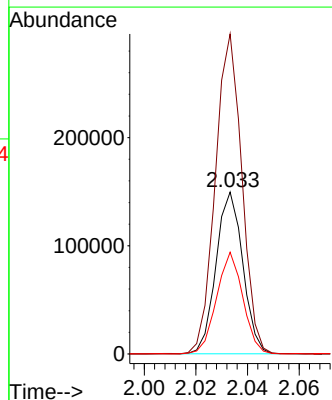
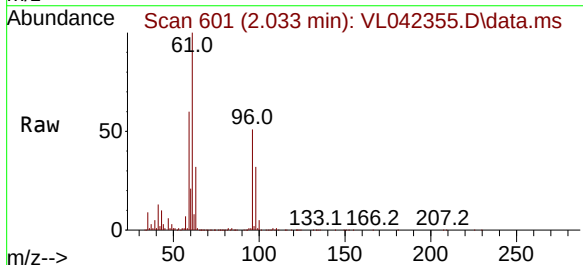
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

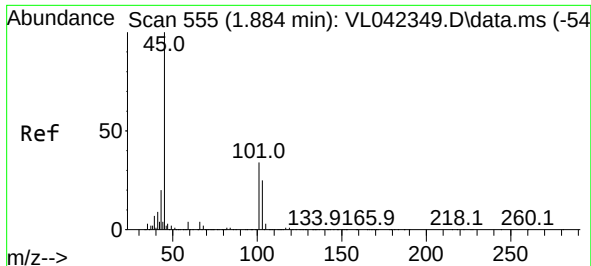
Tgt Ion: 59 Resp: 320605
Ion Ratio Lower Upper
59 100
57 10.6 8.7 13.1



#18
1,1-Dichloroethene
Concen: 14.045 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 96 Resp: 107666
Ion Ratio Lower Upper
96 100
61 197.8 160.2 240.2
98 62.9 51.0 76.4

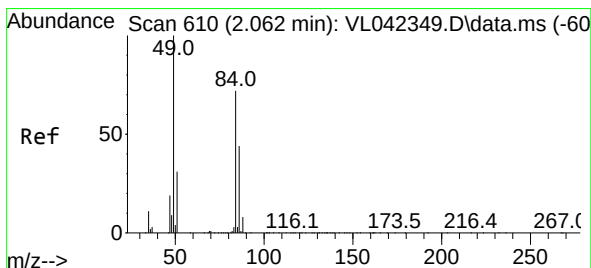
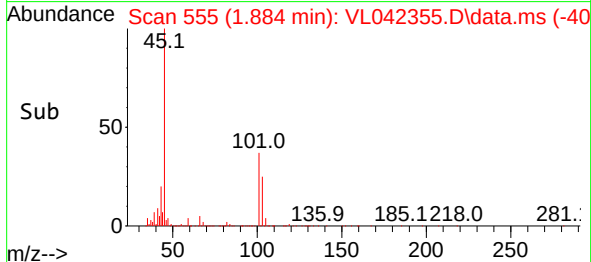
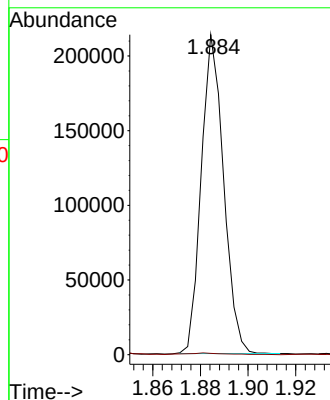
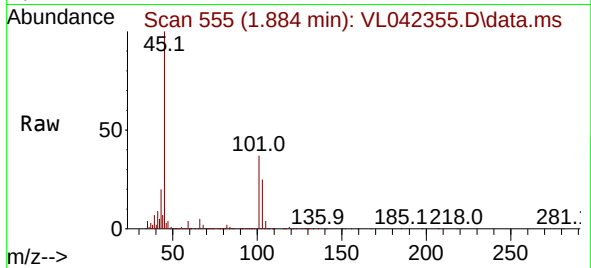




#19
Isopropyl Alcohol
Concen: 13.169 ppbv
RT: 1.884 min Scan# 511
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

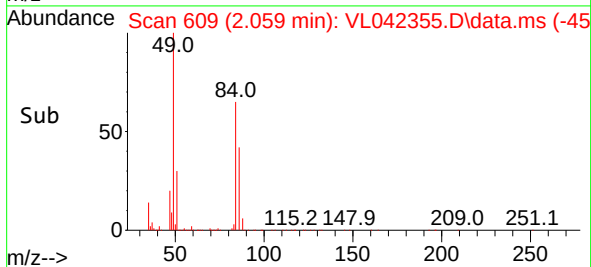
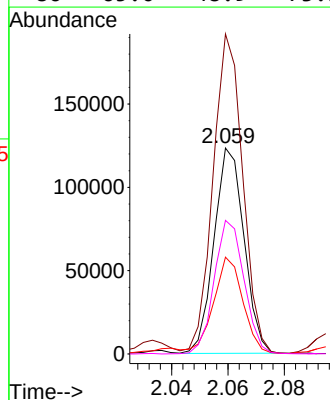
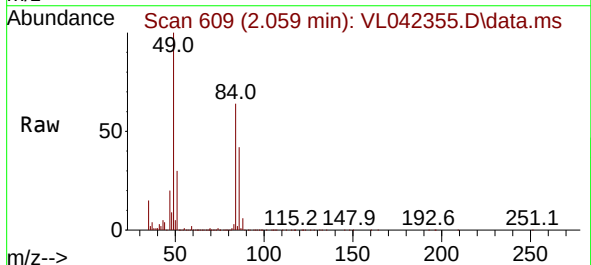
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

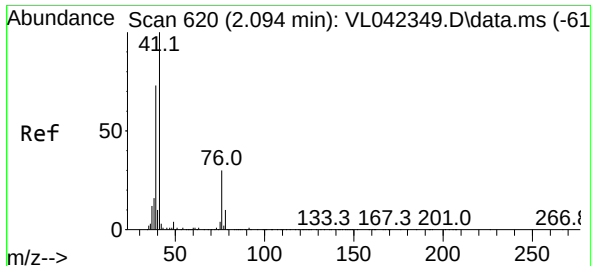
Tgt Ion: 45 Resp: 139004
Ion Ratio Lower Upper
45 100
58 46.9 34.5 51.7



#20
Methylene Chloride
Concen: 12.241 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.003 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 84 Resp: 91093
Ion Ratio Lower Upper
84 100
49 155.7 111.6 167.4
51 46.8 35.1 52.7
86 65.0 48.9 73.3

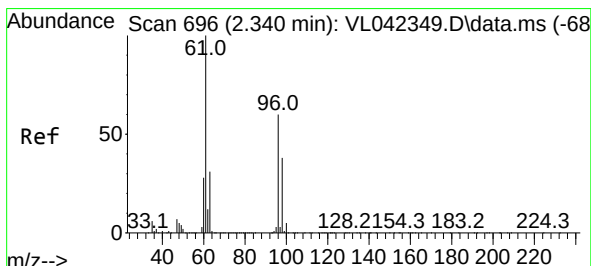
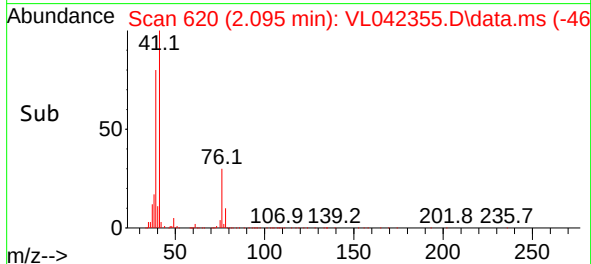
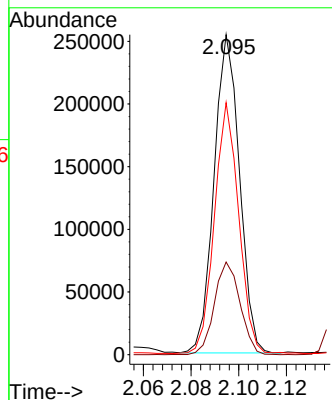
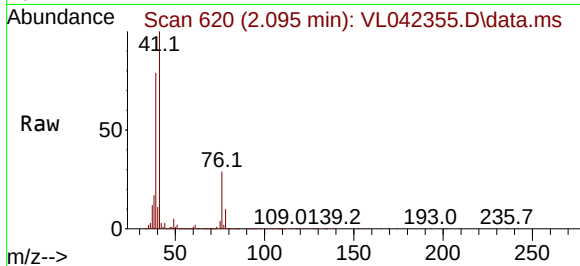




#21
 Allyl Chloride
 Concen: 14.329 ppbv
 RT: 2.095 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54

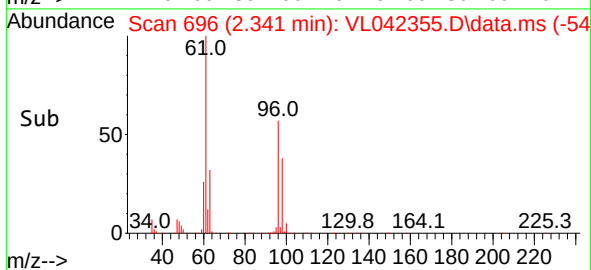
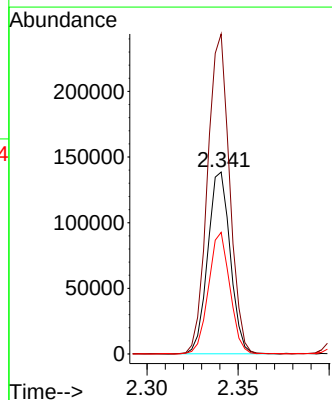
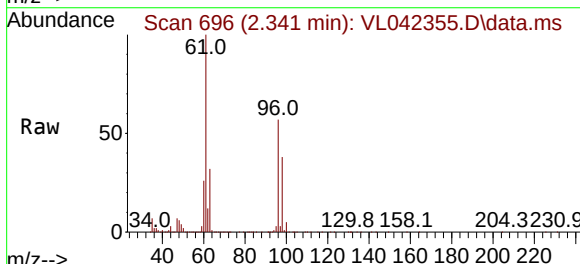
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

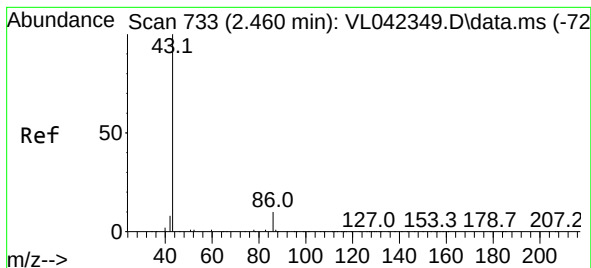
Tgt Ion: 41 Resp: 187995
 Ion Ratio Lower Upper
 41 100
 76 29.3 24.8 37.2
 39 75.2 60.6 90.8



#22
 trans-1,2-Dichloroethene
 Concen: 13.970 ppbv
 RT: 2.341 min Scan# 696
 Delta R.T. 0.000 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54

Tgt Ion: 96 Resp: 118492
 Ion Ratio Lower Upper
 96 100
 61 176.1 133.7 200.5
 98 66.8 50.3 75.5





#23

Vinyl Acetate

Concen: 13.799 ppbv

RT: 2.460 min Scan# 717

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 43 Resp: 106135

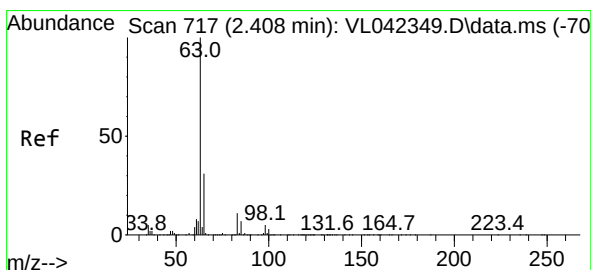
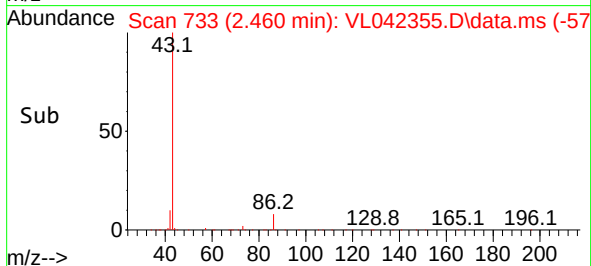
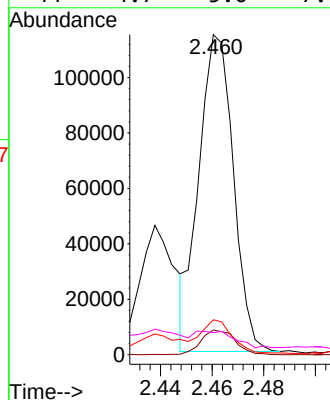
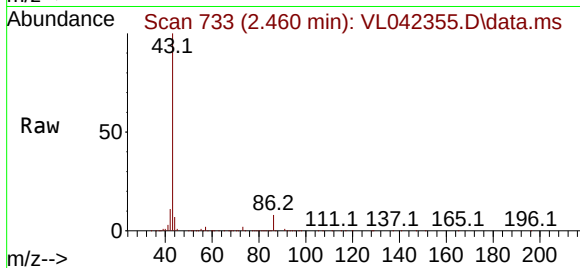
Ion Ratio Lower Upper

43 100

86 7.8 6.5 9.7

42 10.4 7.8 11.8

44 4.7 5.0 7.6#



#24

1,1-Dichloroethane

Concen: 14.615 ppbv

RT: 2.409 min Scan# 717

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

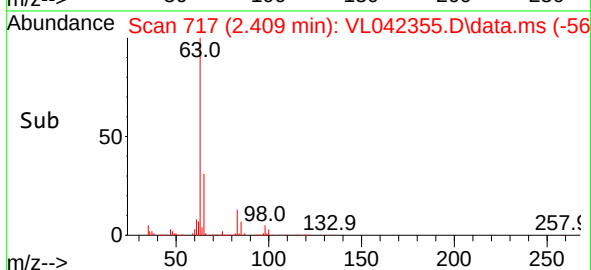
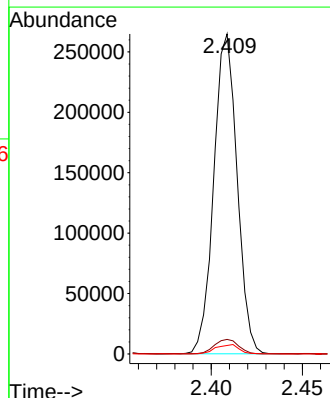
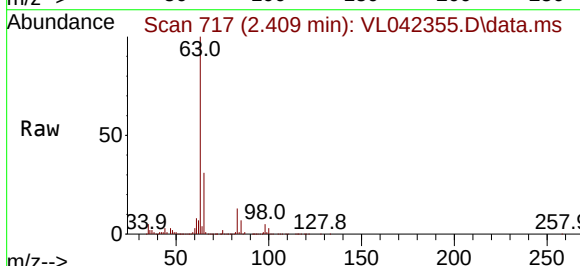
Tgt Ion: 63 Resp: 235466

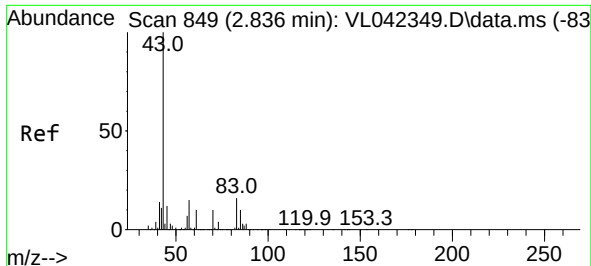
Ion Ratio Lower Upper

63 100

98 4.5 2.3 6.8

100 2.6 1.6 4.8

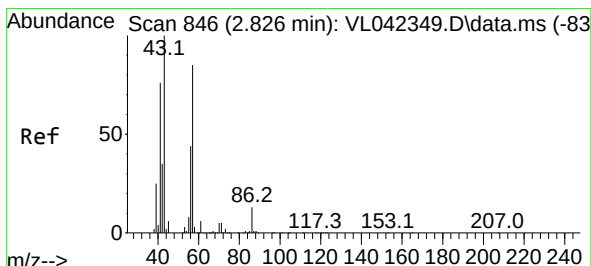
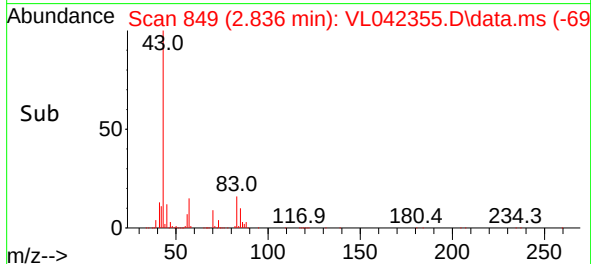
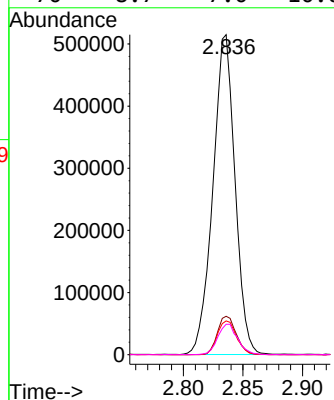
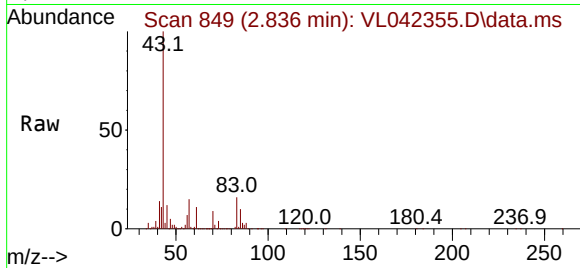




#25
Ethyl Acetate
Concen: 14.166 ppbv
RT: 2.836 min Scan# 849
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

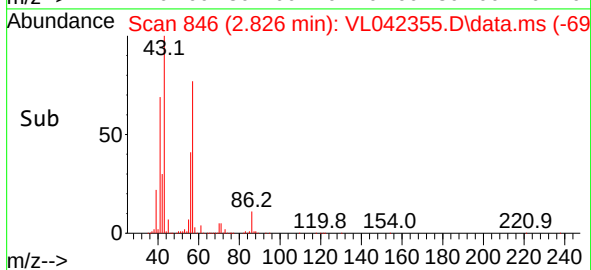
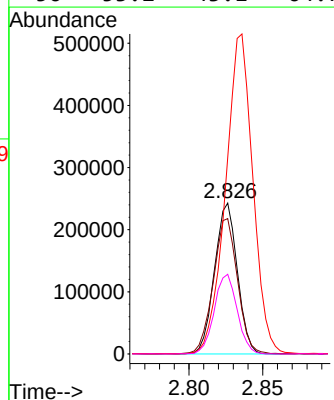
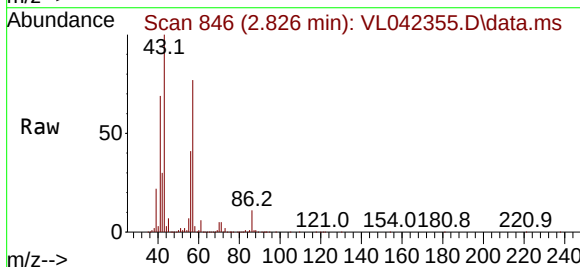
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

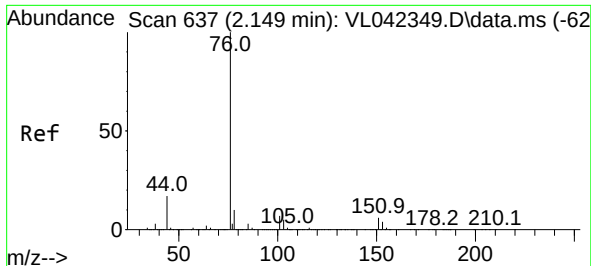
Tgt Ion:	43	Resp:	663644
Ion	Ratio	Lower	Upper
43	100		
45	10.4	8.3	12.5
61	9.2	7.3	10.9
70	8.7	7.0	10.6



#26
Hexane
Concen: 13.765 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:	57	Resp:	260975
Ion	Ratio	Lower	Upper
57	100		
41	95.3	77.9	116.9
43	254.5	208.4	312.6
56	53.2	43.1	64.7

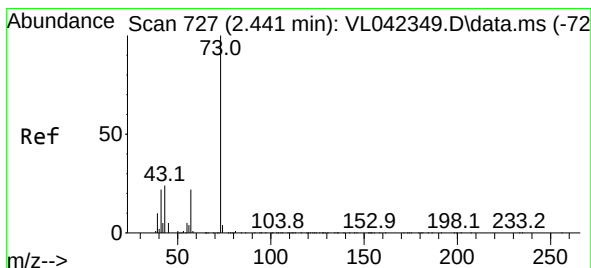
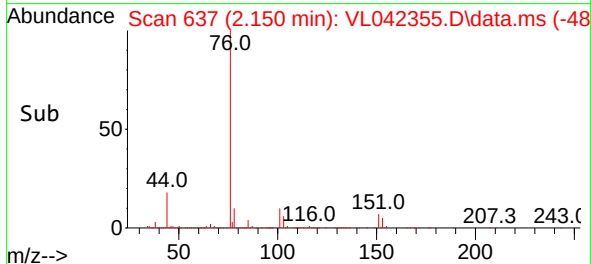
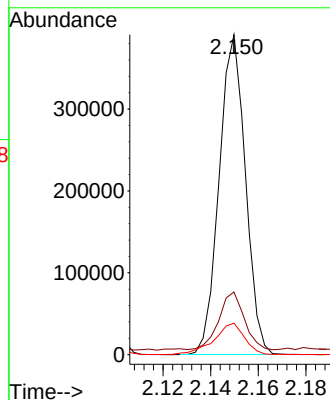
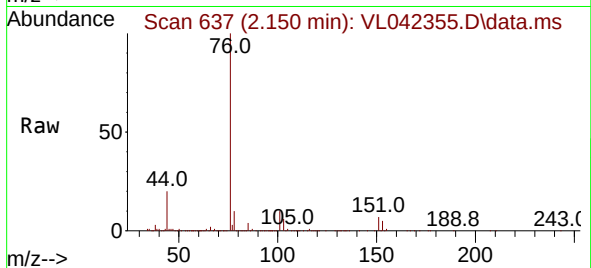




#27
Carbon Disulfide
Concen: 14.734 ppbv
RT: 2.150 min Scan# 61
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

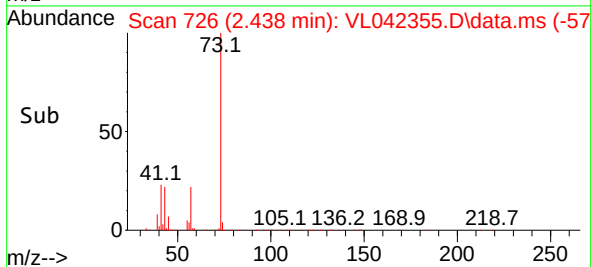
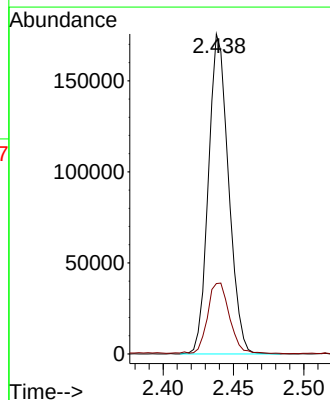
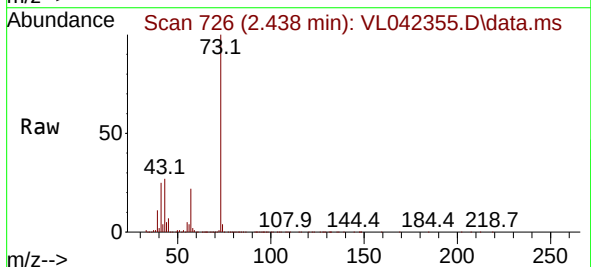
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

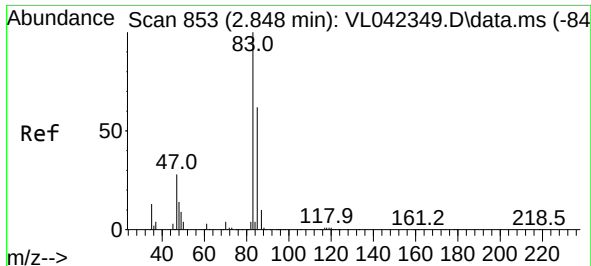
Tgt Ion: 76 Resp: 299098
Ion Ratio Lower Upper
76 100
44 17.3 15.5 23.3
78 11.4 9.3 13.9



#28
Methyl tert-Butyl Ether
Concen: 14.076 ppbv
RT: 2.438 min Scan# 726
Delta R.T. -0.003 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 73 Resp: 174855
Ion Ratio Lower Upper
73 100
57 24.3 21.3 31.9





#29

Chloroform

Concen: 14.393 ppbv

RT: 2.849 min Scan# 81

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Instrument :

MSVOA_L

ClientSampleId :

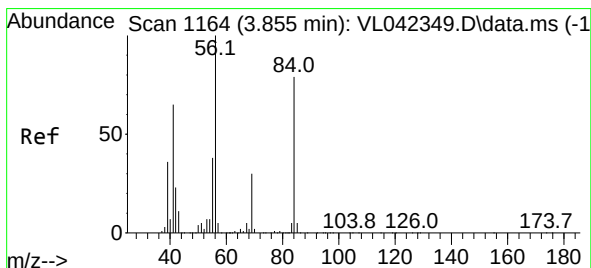
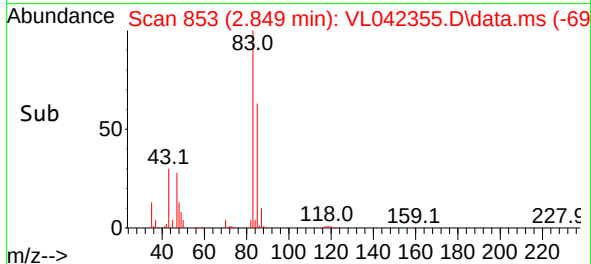
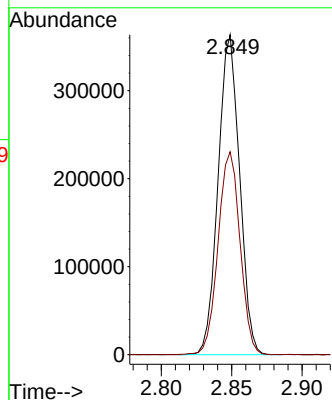
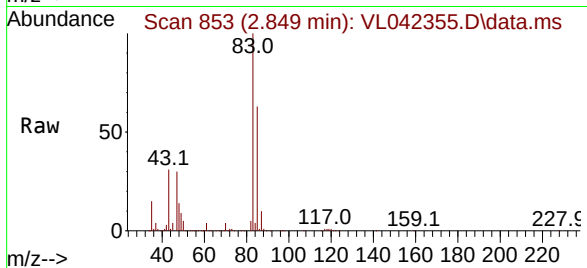
VSTDIC015

Tgt Ion: 83 Resp: 385686

Ion Ratio Lower Upper

83 100

85 63.4 50.0 75.0



#30

Cyclohexane

Concen: 14.238 ppbv

RT: 3.855 min Scan# 1164

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

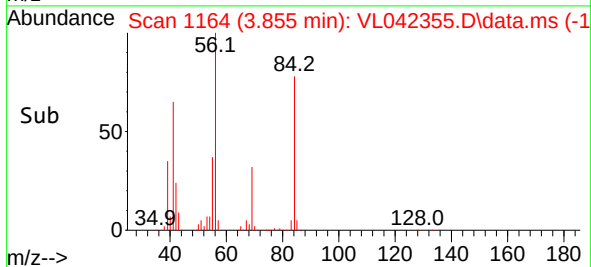
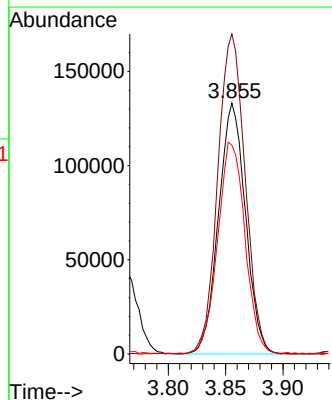
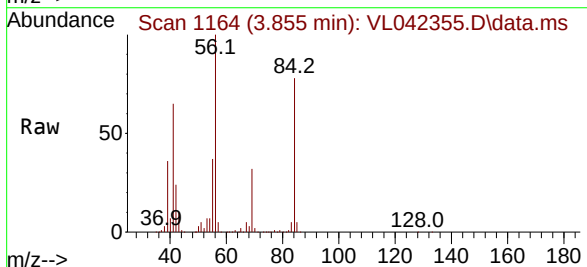
Tgt Ion: 84 Resp: 217375

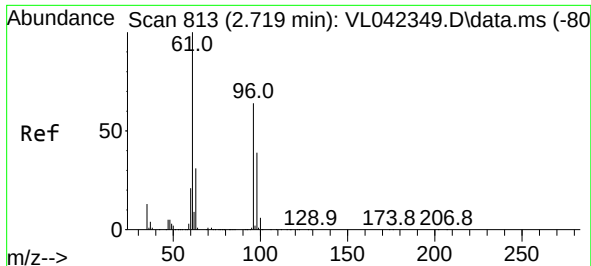
Ion Ratio Lower Upper

84 100

56 129.4 101.0 151.4

41 85.3 67.4 101.0

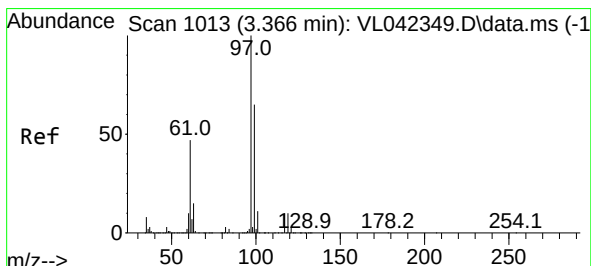
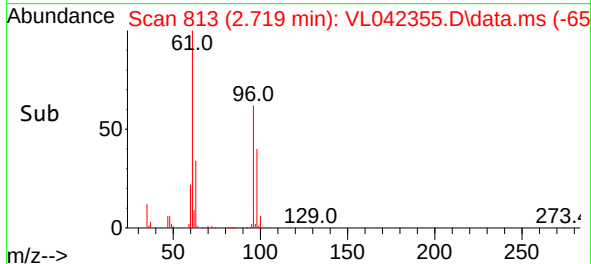
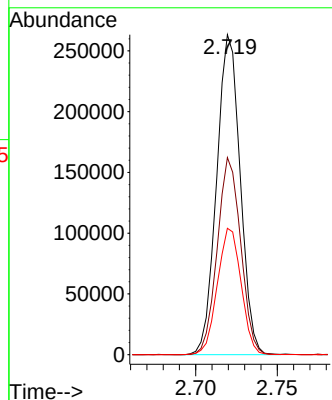
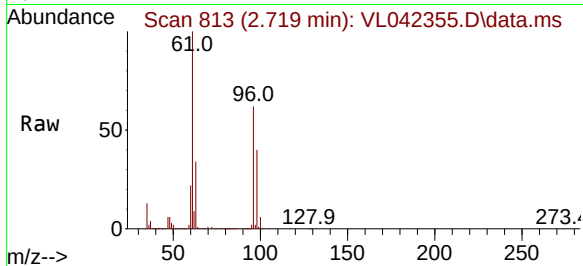




#31
 cis-1,2-Dichloroethene
 Concen: 14.700 ppbv
 RT: 2.719 min Scan# 813
 Delta R.T. 0.000 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54

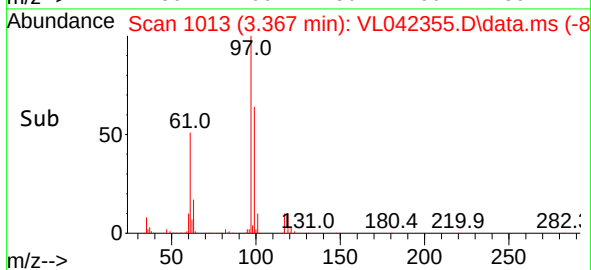
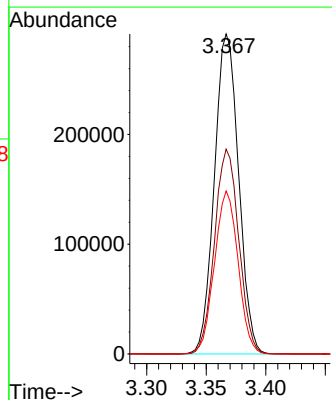
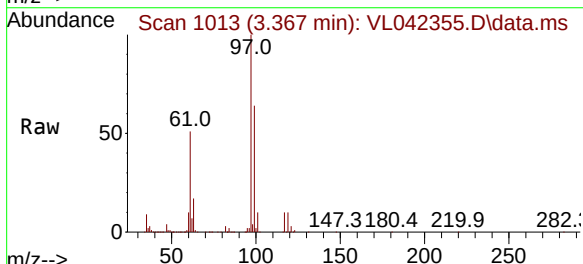
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC015

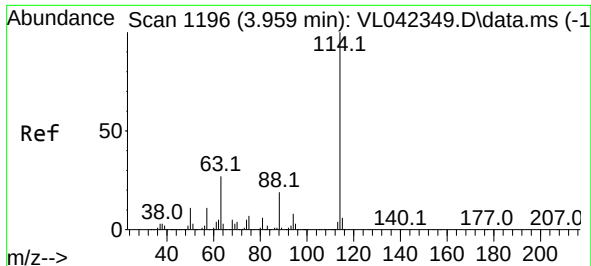
Tgt Ion: 61 Resp: 264972
 Ion Ratio Lower Upper
 61 100
 96 61.6 50.8 76.2
 98 39.5 30.9 46.3



#32
 1,1,1-Trichloroethane
 Concen: 14.357 ppbv
 RT: 3.367 min Scan# 1013
 Delta R.T. 0.000 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54

Tgt Ion: 97 Resp: 412537
 Ion Ratio Lower Upper
 97 100
 99 64.1 51.0 76.4
 61 49.8 38.8 58.2

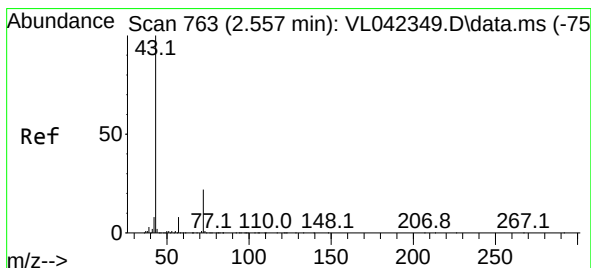
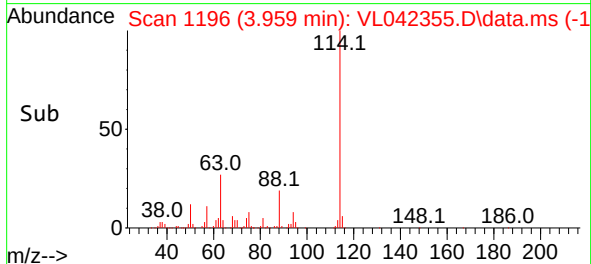
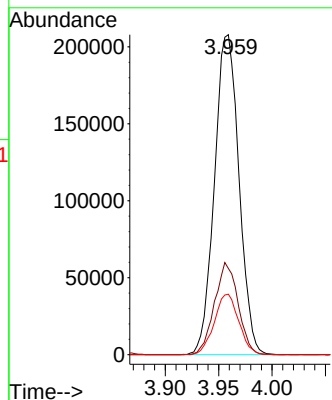
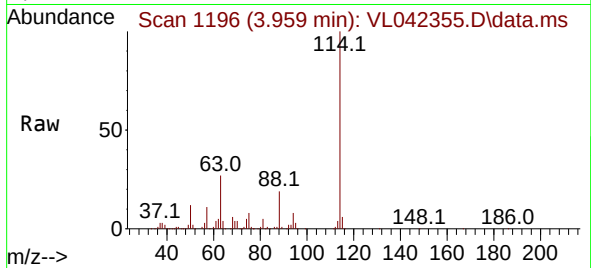




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.959 min Scan# 1196
 Delta R.T. 0.000 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54

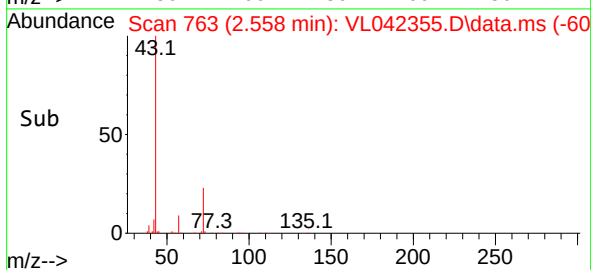
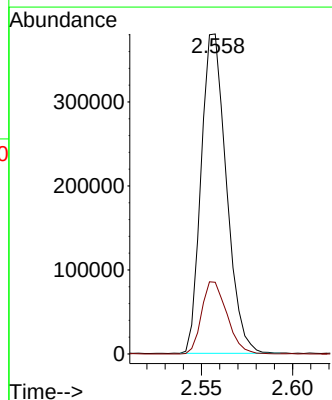
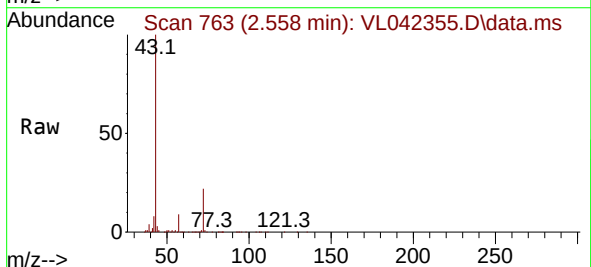
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC015

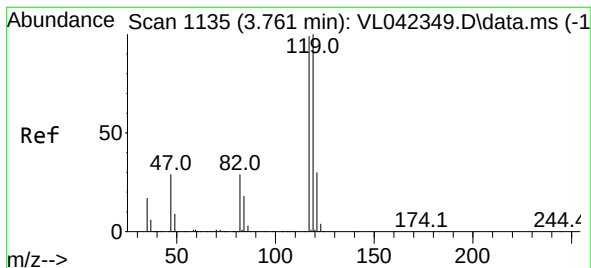
Tgt Ion:114 Resp: 332080
 Ion Ratio Lower Upper
 114 100
 63 27.7 21.8 32.6
 88 18.9 15.5 23.3



#34
 2-Butanone
 Concen: 13.986 ppbv
 RT: 2.558 min Scan# 763
 Delta R.T. 0.000 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54

Tgt Ion: 43 Resp: 367315
 Ion Ratio Lower Upper
 43 100
 72 22.7 18.2 27.2





#35

Carbon Tetrachloride

Concen: 13.639 ppbv

RT: 3.762 min Scan# 1135

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

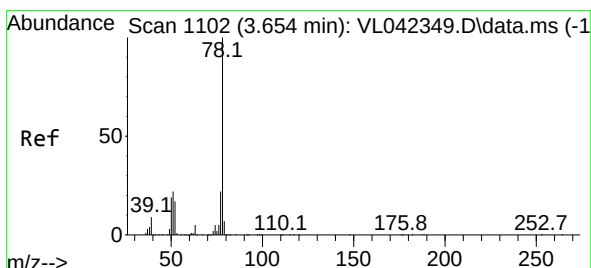
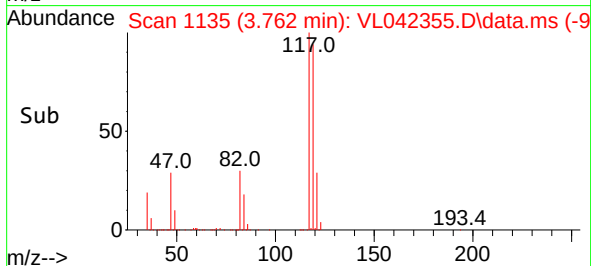
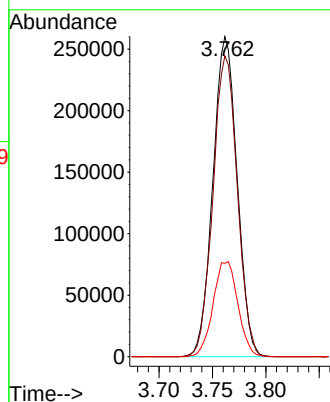
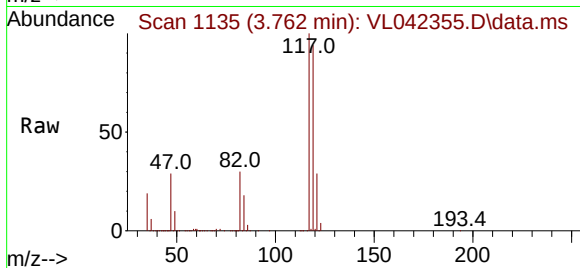
Tgt Ion:117 Resp: 409916

Ion Ratio Lower Upper

117 100

119 94.0 80.5 120.7

121 29.2 24.2 36.2



#36

Benzene

Concen: 14.578 ppbv

RT: 3.655 min Scan# 1102

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

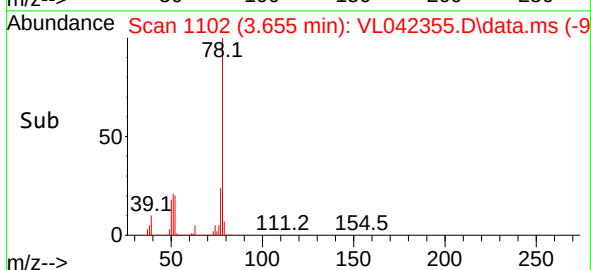
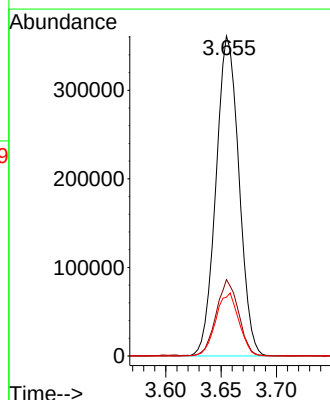
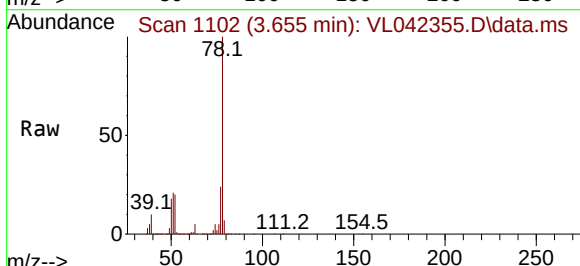
Tgt Ion: 78 Resp: 522156

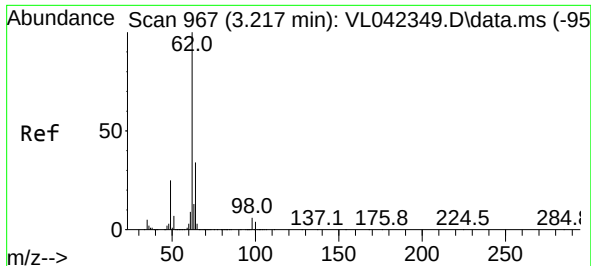
Ion Ratio Lower Upper

78 100

77 23.8 17.4 26.0

50 18.3 15.5 23.3





#37

1,2-Dichloroethane

Concen: 14.863 ppbv

RT: 3.218 min Scan# 967

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Instrument :

MSVOA_L

ClientSampleId :

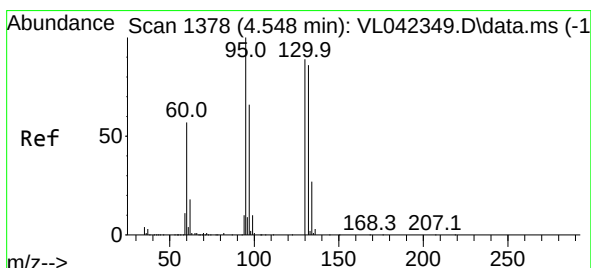
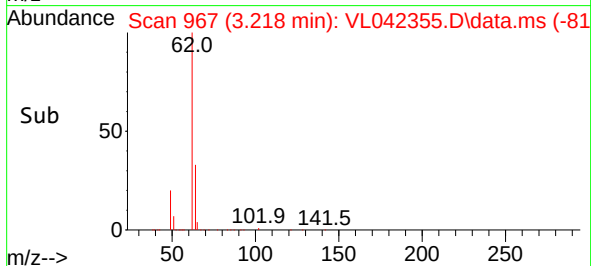
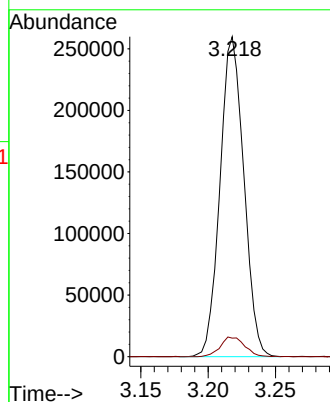
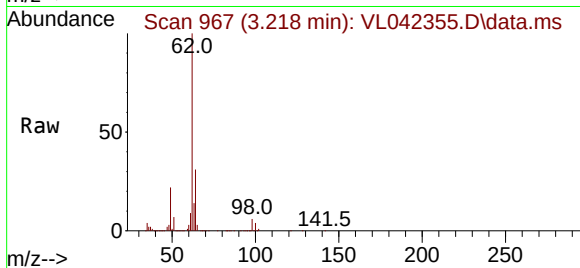
VSTDIC015

Tgt Ion: 62 Resp: 319517

Ion Ratio Lower Upper

62 100

98 6.3 5.1 7.7



#38

Trichloroethene

Concen: 13.278 ppbv

RT: 4.548 min Scan# 1378

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Tgt Ion:130 Resp: 208508

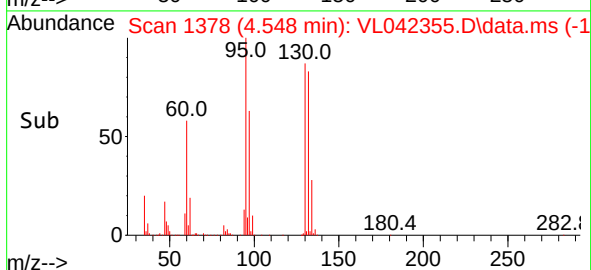
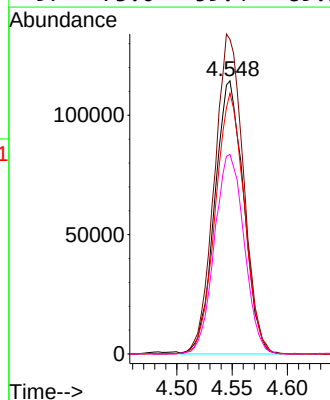
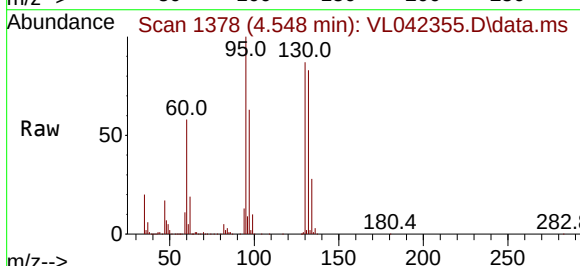
Ion Ratio Lower Upper

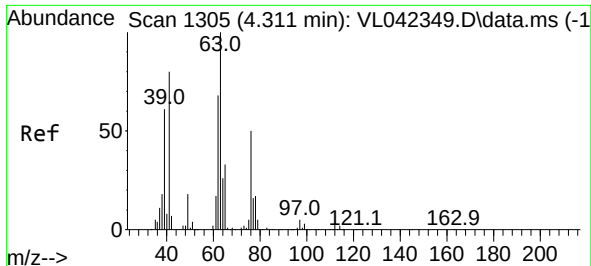
130 100

95 115.0 89.8 134.6

132 95.3 77.7 116.5

97 73.0 59.4 89.2





#39

1,2-Dichloropropane

Concen: 14.201 ppbv

RT: 4.312 min Scan# 1

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

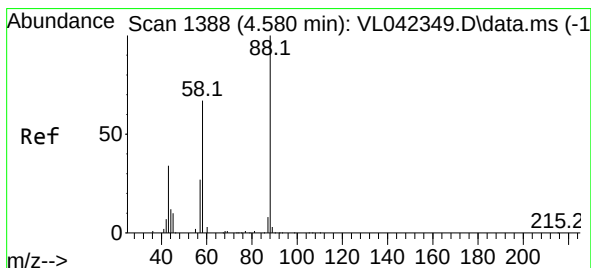
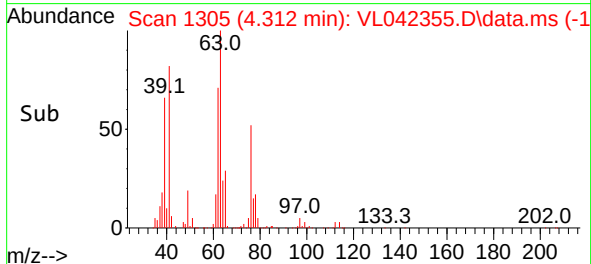
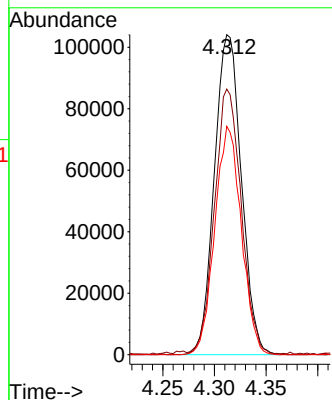
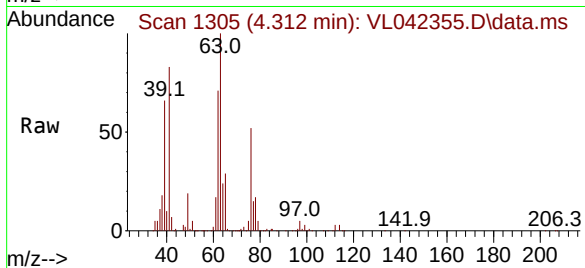
Tgt Ion: 63 Resp: 189697

Ion Ratio Lower Upper

63 100

41 82.7 64.2 96.2

62 71.4 54.3 81.5



#40

1,4-Dioxane

Concen: 12.733 ppbv

RT: 4.580 min Scan# 1388

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Tgt Ion: 88 Resp: 92114

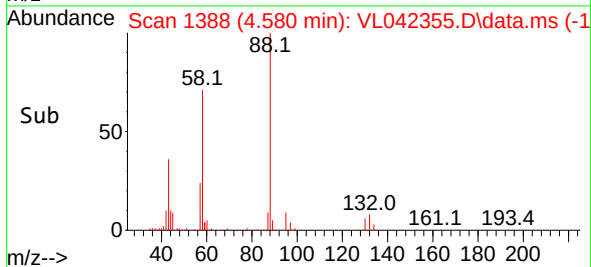
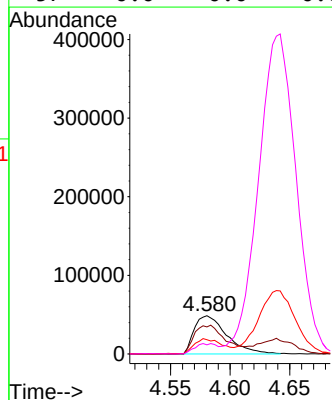
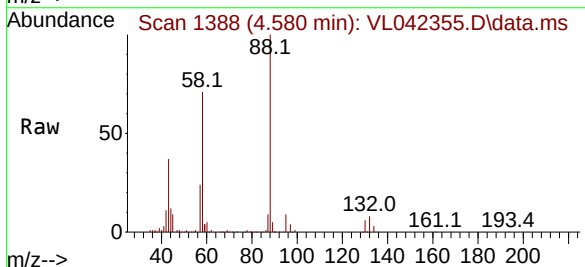
Ion Ratio Lower Upper

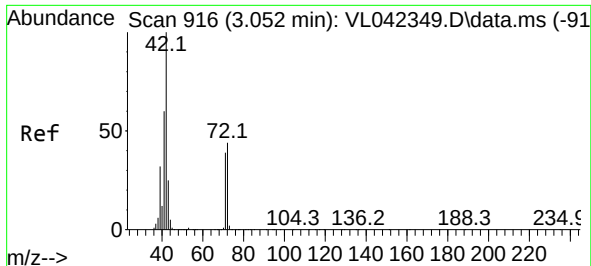
88 100

58 75.2 61.4 92.0

43 36.8 23.2 34.8

57 0.0 0.0 0.0

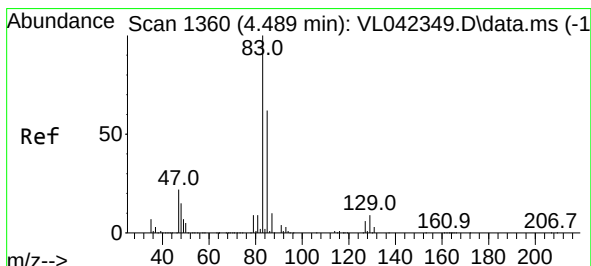
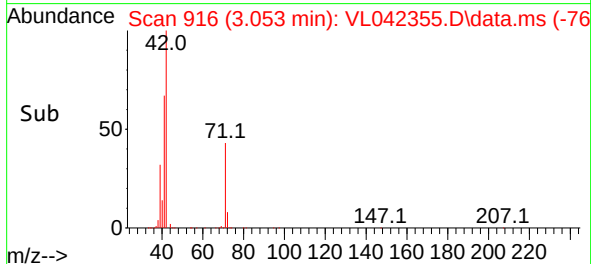
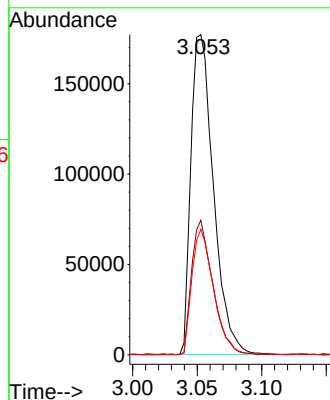
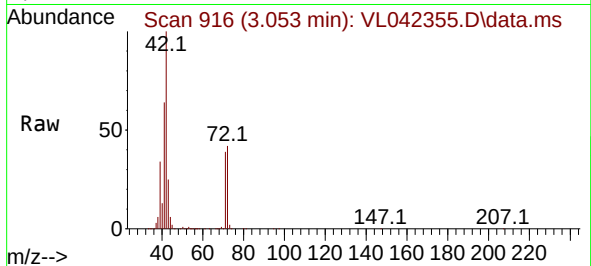




#41
Tetrahydrofuran
Concen: 14.166 ppbv
RT: 3.053 min Scan# 916
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

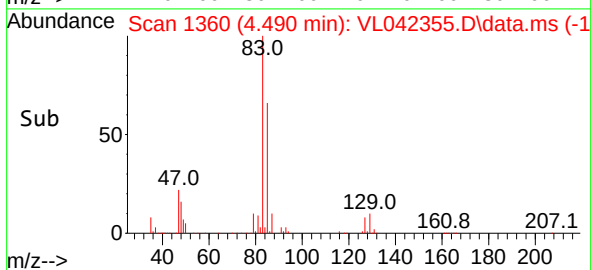
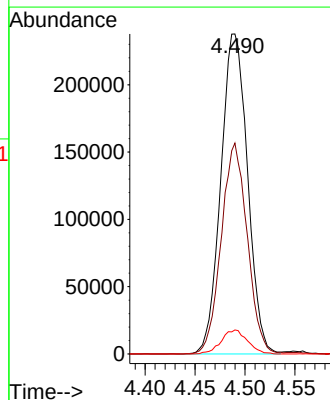
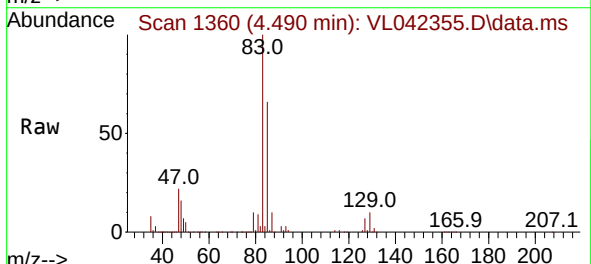
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

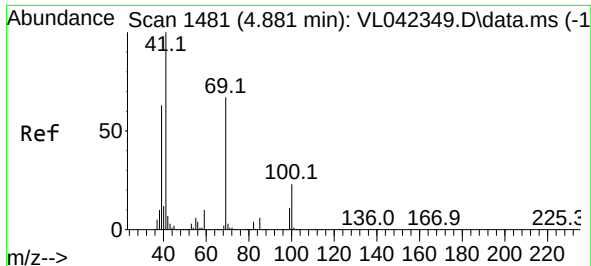
Tgt Ion: 42 Resp: 214949
Ion Ratio Lower Upper
42 100
72 39.7 32.3 48.5
71 37.9 31.4 47.2



#42
Bromodichloromethane
Concen: 14.798 ppbv
RT: 4.490 min Scan# 1360
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 83 Resp: 442735
Ion Ratio Lower Upper
83 100
85 65.9 49.7 74.5
127 7.5 5.1 7.7

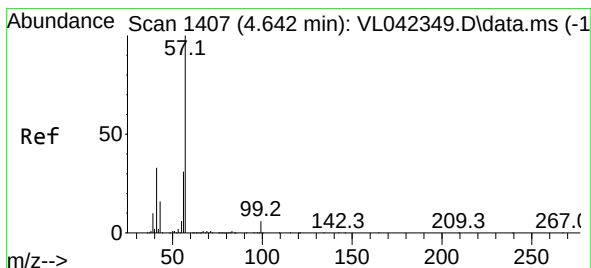
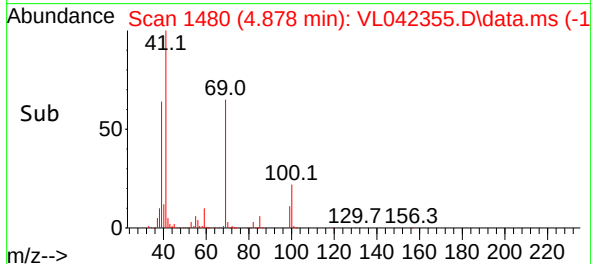
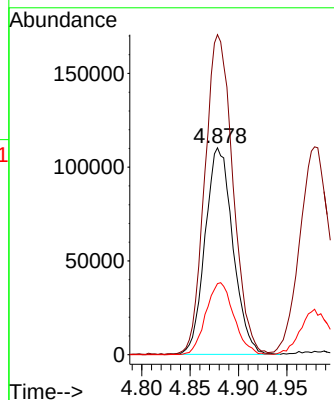
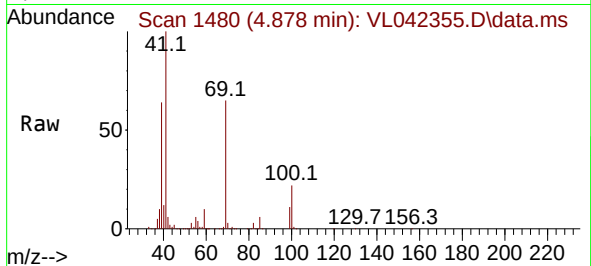




#43
Methyl Methacrylate
Concen: 13.670 ppbv
RT: 4.878 min Scan# 1480
Delta R.T. -0.003 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

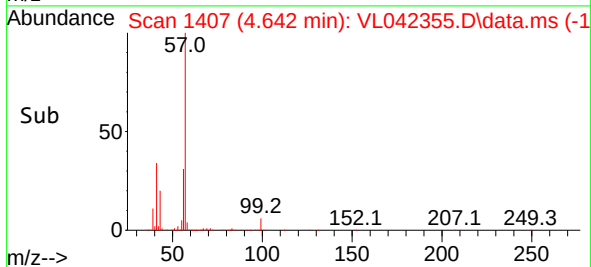
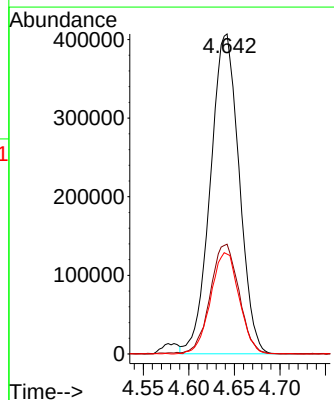
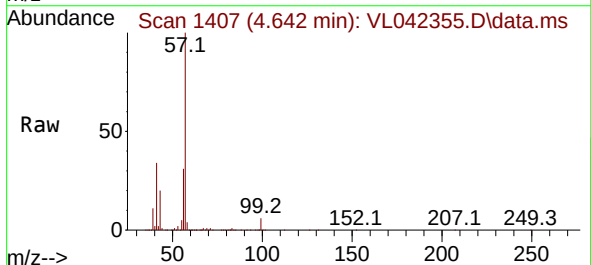
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

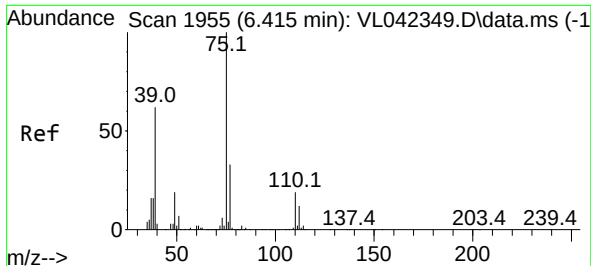
Tgt Ion: 69 Resp: 219757
Ion Ratio Lower Upper
69 100
41 156.6 118.6 177.8
100 35.2 28.2 42.2



#44
2,2,4-Trimethylpentane
Concen: 14.425 ppbv
RT: 4.642 min Scan# 1407
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 57 Resp: 893529
Ion Ratio Lower Upper
57 100
41 34.4 27.2 40.8
56 31.6 25.7 38.5





#45

t-1,3-Dichloropropene

Concen: 14.810 ppbv

RT: 6.412 min Scan# 1955

Delta R.T. -0.003 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Instrument :

MSVOA_1

ClientSampleId :

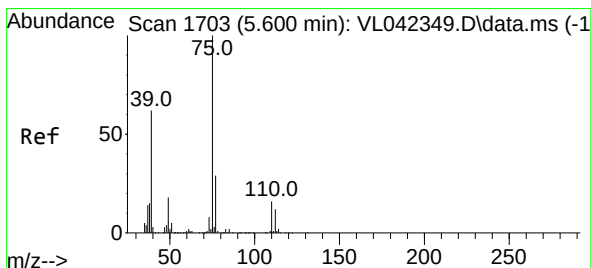
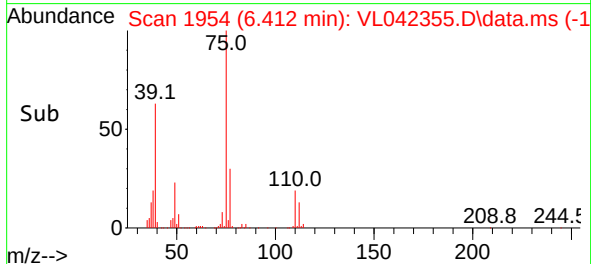
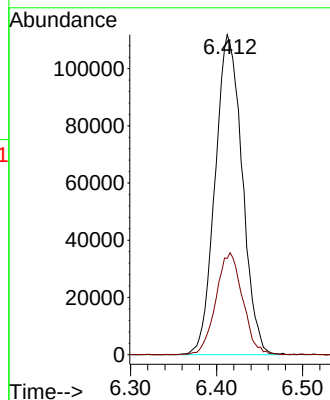
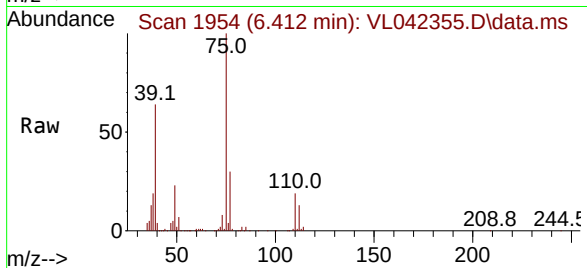
VSTDIC015

Tgt Ion: 75 Resp: 244470

Ion Ratio Lower Upper

75 100

77 30.1 27.0 40.6



#46

cis-1,3-Dichloropropene

Concen: 14.878 ppbv

RT: 5.600 min Scan# 1703

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

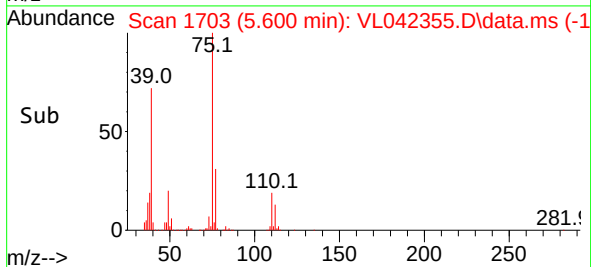
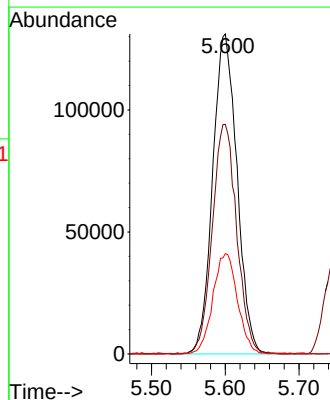
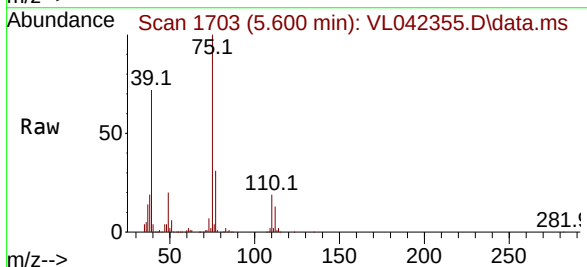
Tgt Ion: 75 Resp: 300145

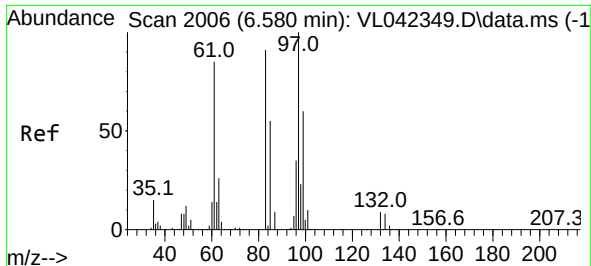
Ion Ratio Lower Upper

75 100

39 71.6 50.0 75.0

77 31.3 23.0 34.6



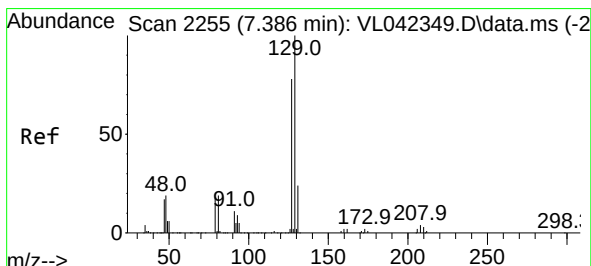
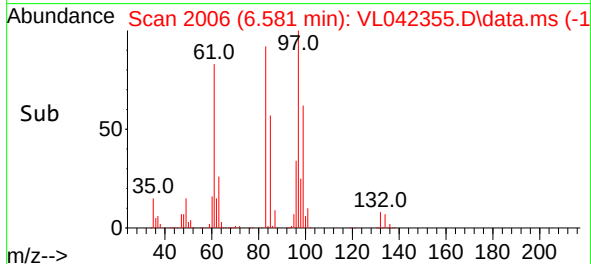
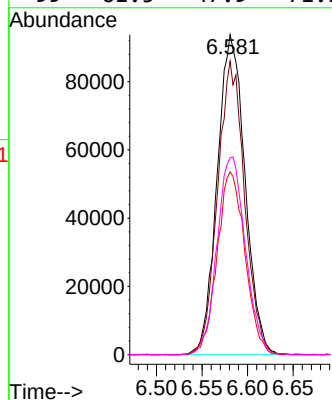
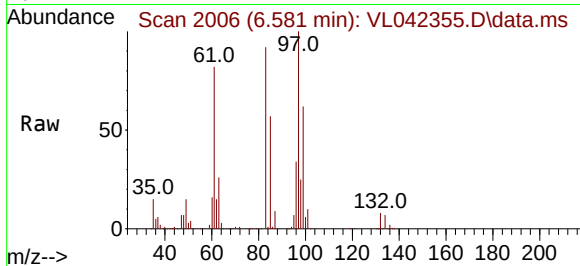


#47
1,1,2-Trichloroethane
Concen: 14.615 ppbv
RT: 6.581 min Scan# 2006
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 97 Resp: 198874

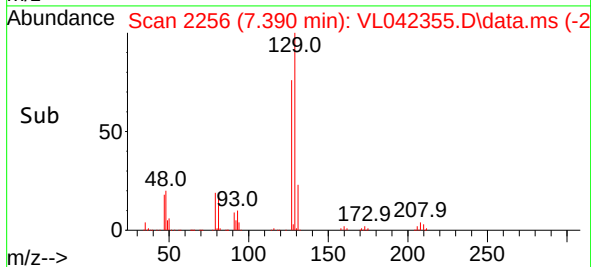
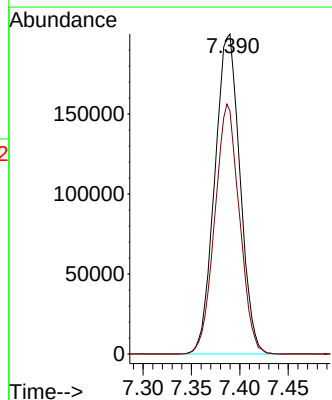
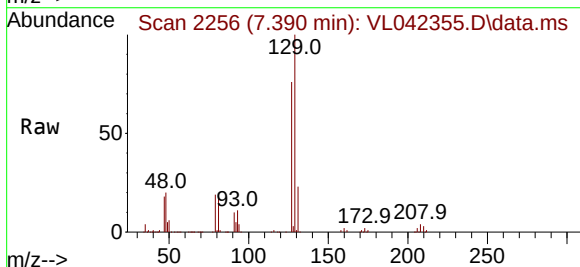
Ion	Ratio	Lower	Upper
97	100		
83	91.7	72.8	109.2
85	57.0	44.2	66.4
99	61.5	47.9	71.9

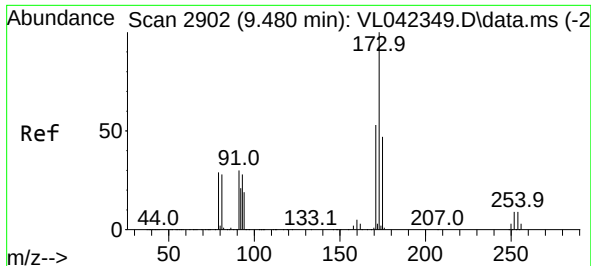


#48
Dibromochloromethane
Concen: 15.105 ppbv
RT: 7.390 min Scan# 2256
Delta R.T. 0.004 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 129 Resp: 362887

Ion	Ratio	Lower	Upper
129	100		
127	76.3	39.1	117.3





#49

Bromoform

Concen: 14.865 ppbv

RT: 9.484 min Scan# 2902

Delta R.T. 0.004 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

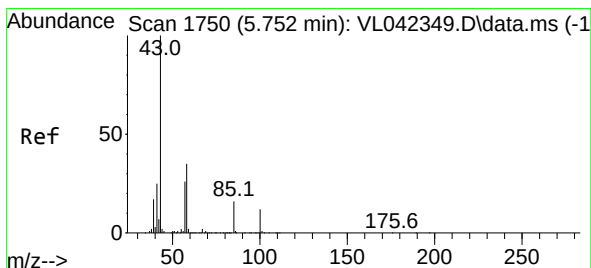
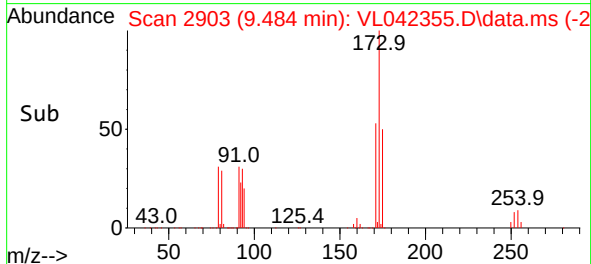
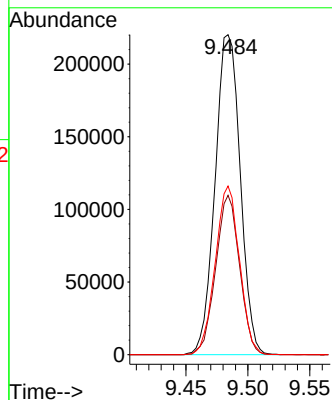
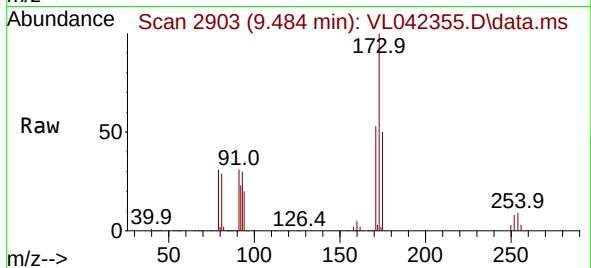
Tgt Ion:173 Resp: 312282

Ion Ratio Lower Upper

173 100

175 47.3 38.2 57.2

171 50.6 40.9 61.3



#50

4-Methyl-2-Pentanone

Concen: 12.889 ppbv

RT: 5.749 min Scan# 1749

Delta R.T. -0.003 min

Lab File: VL042355.D

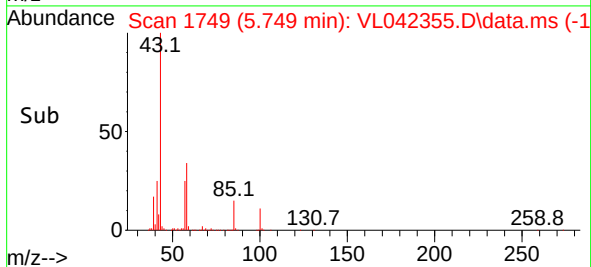
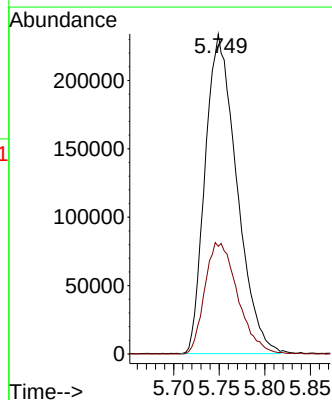
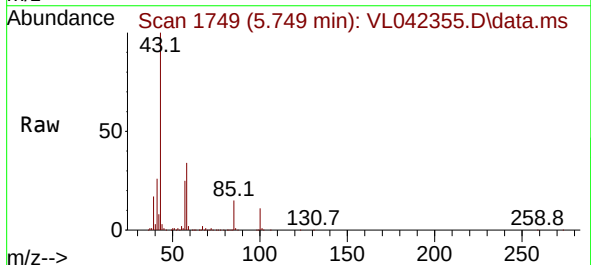
Acq: 17 Apr 2025 12:54

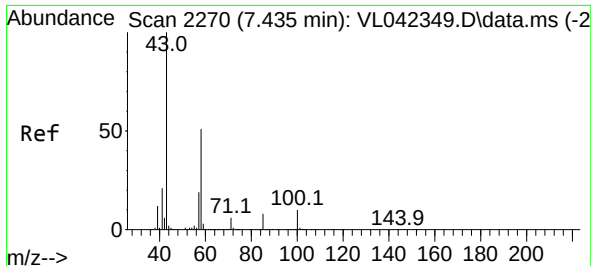
Tgt Ion: 43 Resp: 563658

Ion Ratio Lower Upper

43 100

58 36.3 28.6 43.0

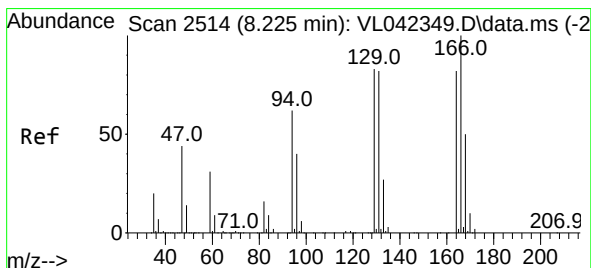
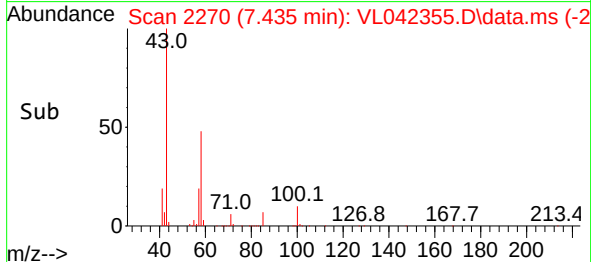
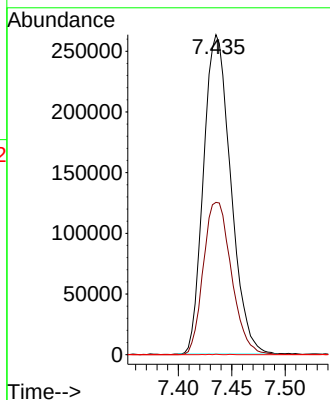
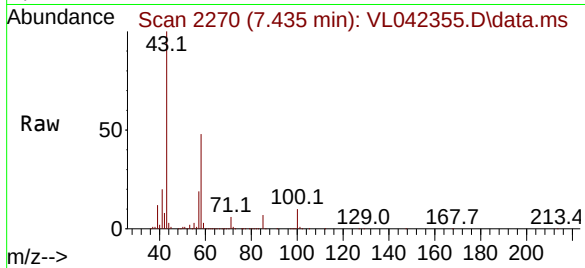




#51
2-Hexanone
Concen: 11.834 ppbv
RT: 7.435 min Scan# 211
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

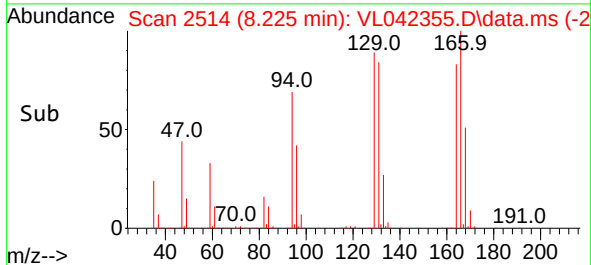
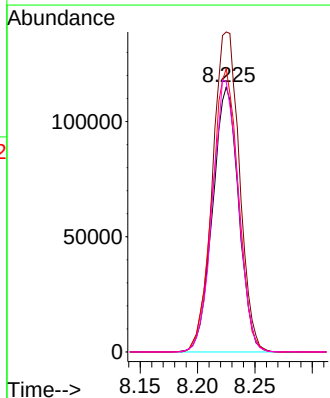
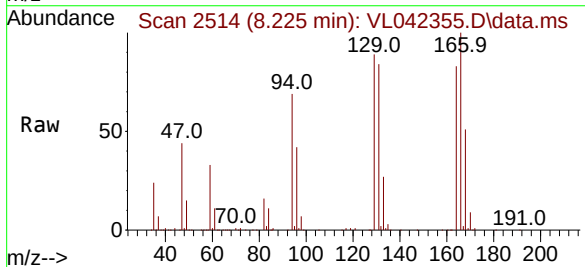
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

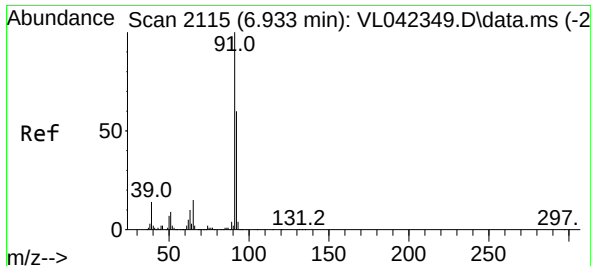
Tgt Ion: 43 Resp: 467001
Ion Ratio Lower Upper
43 100
58 49.2 40.2 60.4
98 0.0 0.1 0.1#



#52
Tetrachloroethene
Concen: 13.046 ppbv
RT: 8.225 min Scan# 2514
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 164 Resp: 180631
Ion Ratio Lower Upper
164 100
166 120.8 98.2 147.2
129 107.0 81.8 122.8
131 102.0 80.5 120.7

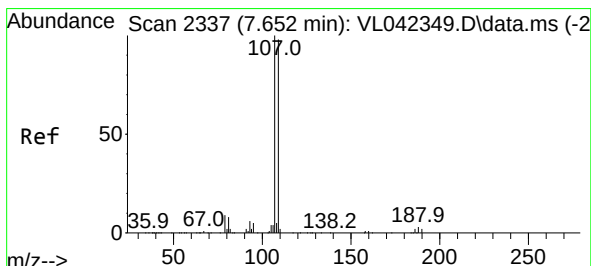
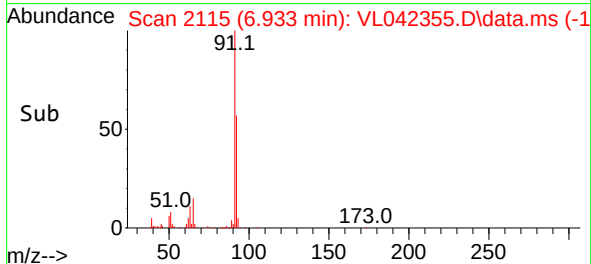
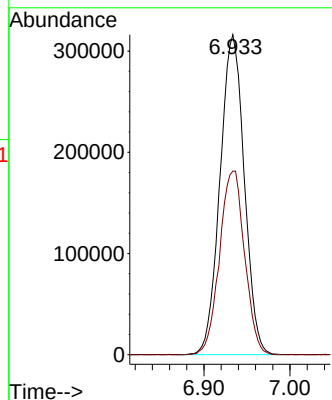
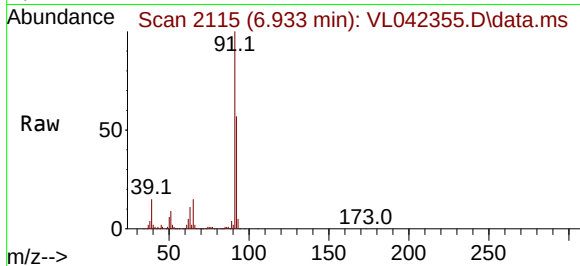




#53
Toluene
Concen: 14.411 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

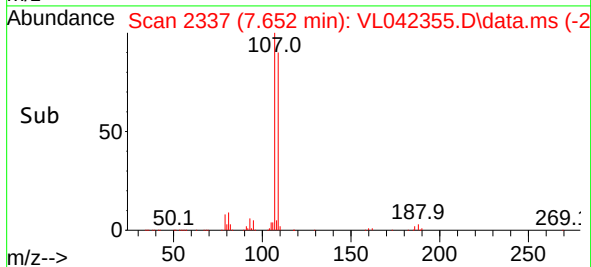
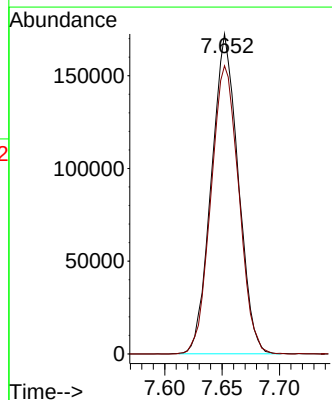
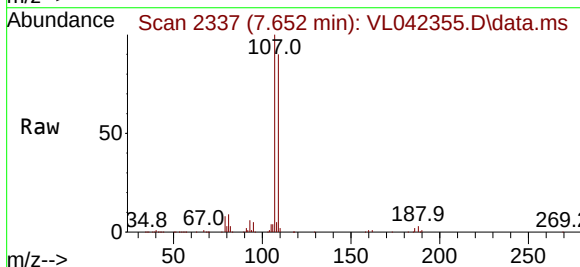
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

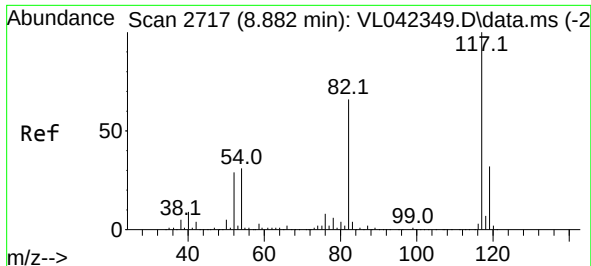
Tgt Ion: 91 Resp: 619420
Ion Ratio Lower Upper
91 100
92 59.3 48.2 72.4



#54
1,2-Dibromoethane
Concen: 14.442 ppbv
RT: 7.652 min Scan# 2337
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 107 Resp: 280071
Ion Ratio Lower Upper
107 100
109 89.9 78.2 117.4

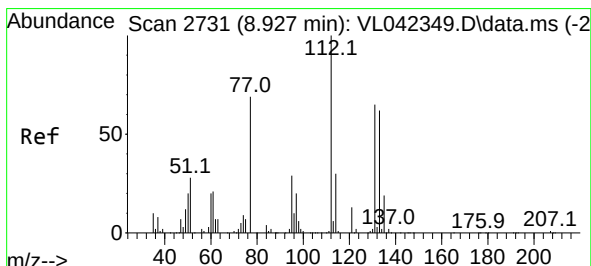
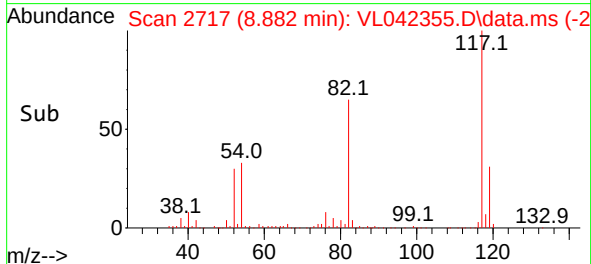
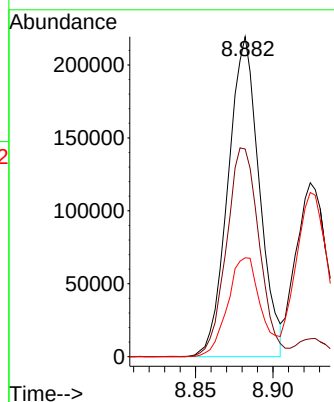
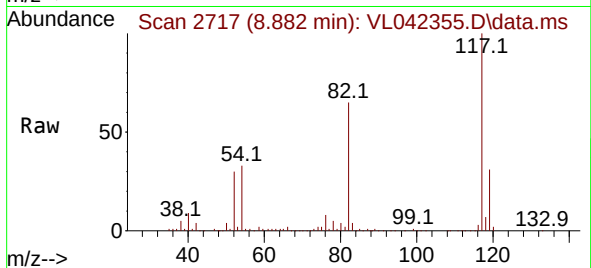




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2717
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

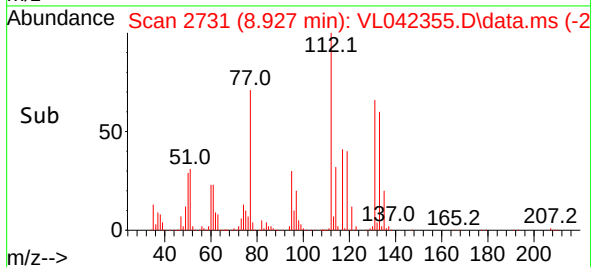
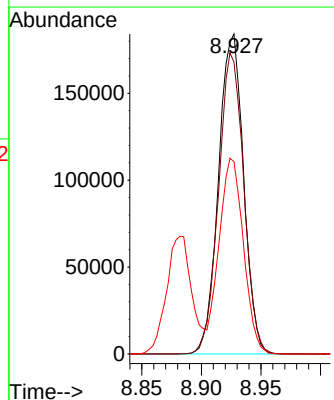
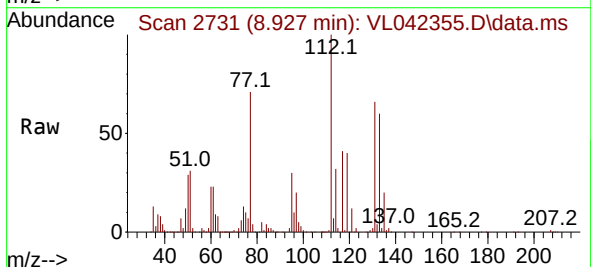
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

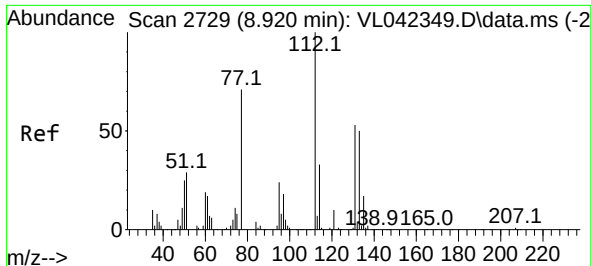
Tgt Ion:117 Resp: 308463
Ion Ratio Lower Upper
117 100
82 74.2 57.8 86.6
119 31.4 25.2 37.8



#56
1,1,1,2-Tetrachloroethane
Concen: 14.389 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:131 Resp: 268626
Ion Ratio Lower Upper
131 100
133 94.6 78.3 117.5
119 59.4 48.7 73.1

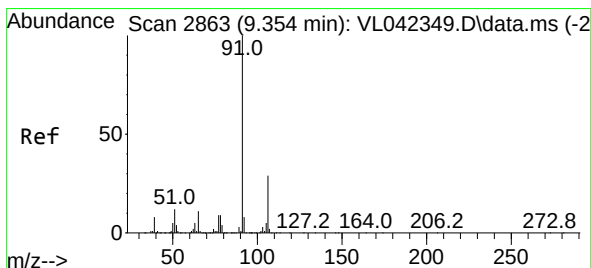
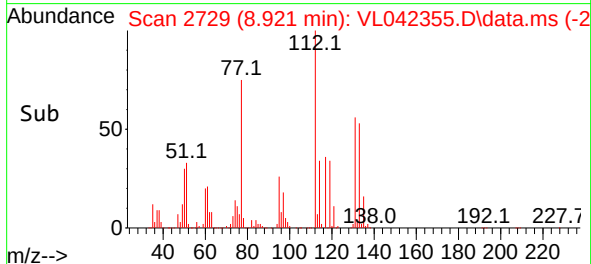
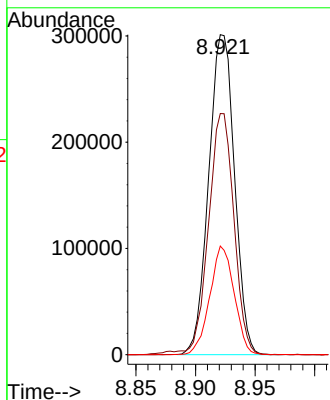
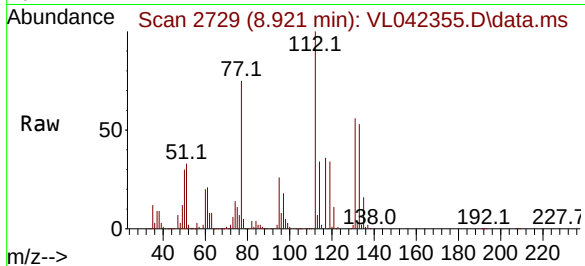




#57
Chlorobenzene
Concen: 14.151 ppbv
RT: 8.921 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

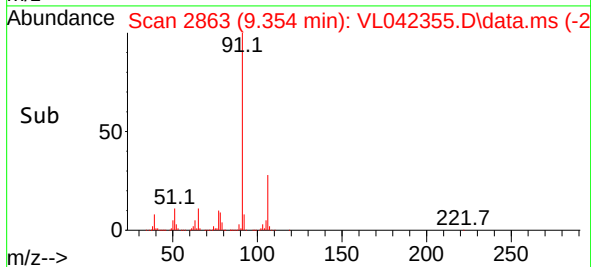
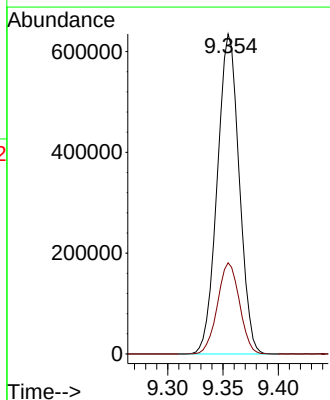
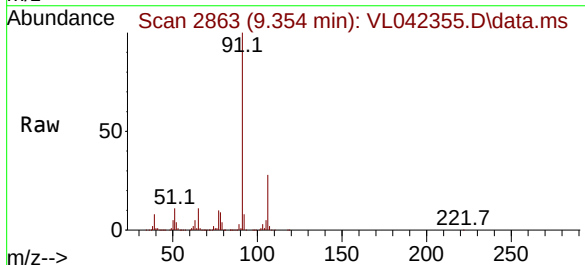
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

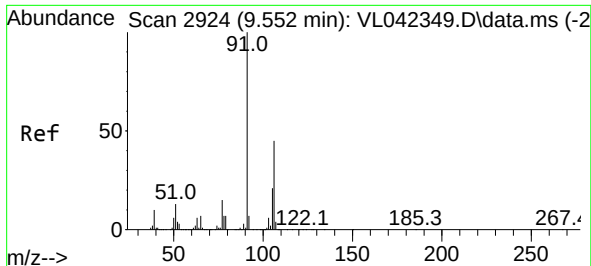
Tgt Ion:112 Resp: 454017
Ion Ratio Lower Upper
112 100
77 75.3 57.8 86.6
114 33.9 29.3 35.9



#58
Ethyl Benzene
Concen: 14.308 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 91 Resp: 874424
Ion Ratio Lower Upper
91 100
106 28.5 23.0 34.4





#59

m/p-Xylene

Concen: 13.067 ppbv

RT: 9.552 min Scan# 2924

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Instrument :

MSVOA_L

ClientSampleId :

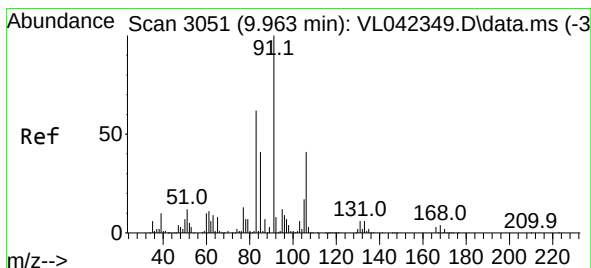
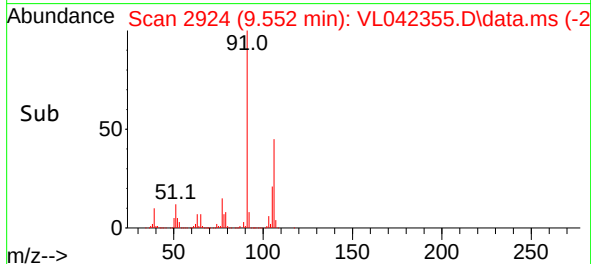
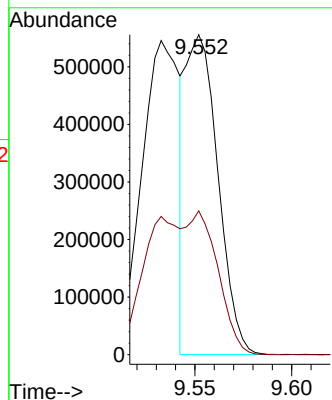
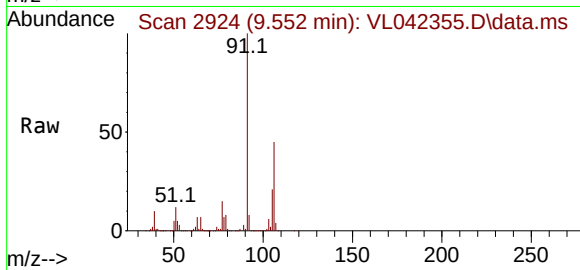
VSTDIC015

Tgt Ion: 91 Resp: 645250

Ion Ratio Lower Upper

91 100

106 95.8 35.4 53.2#



#60

o-Xylene

Concen: 13.902 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. 0.000 min

Lab File: VL042355.D

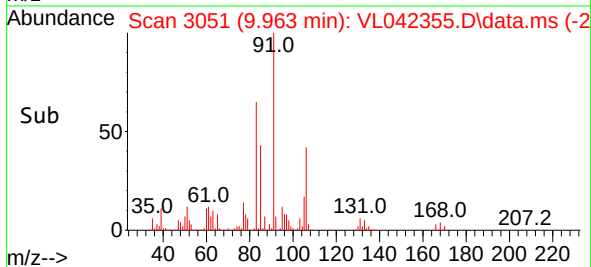
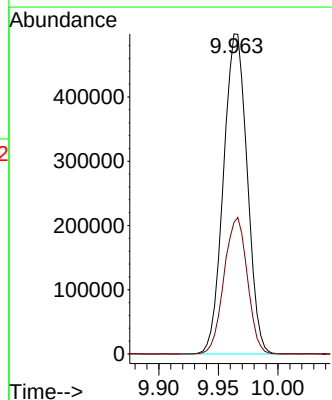
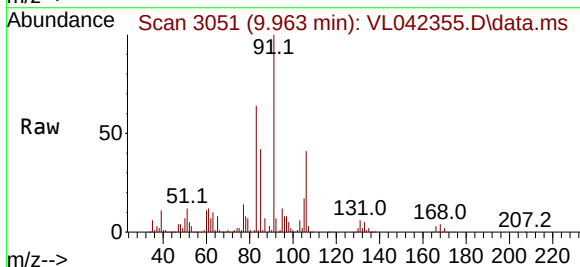
Acq: 17 Apr 2025 12:54

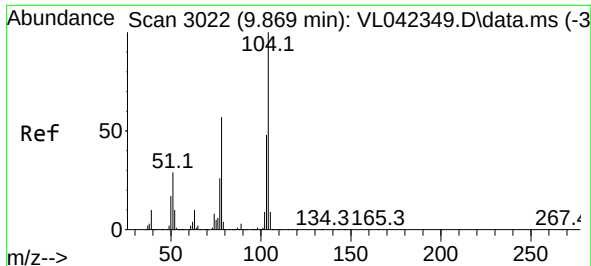
Tgt Ion: 91 Resp: 689246

Ion Ratio Lower Upper

91 100

106 41.9 21.1 63.4

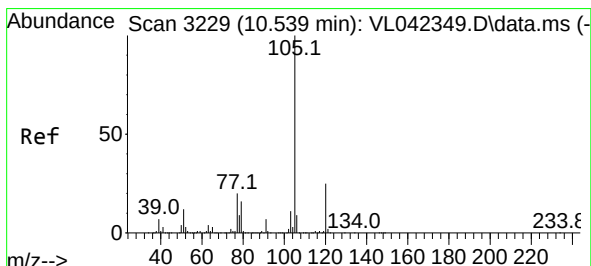
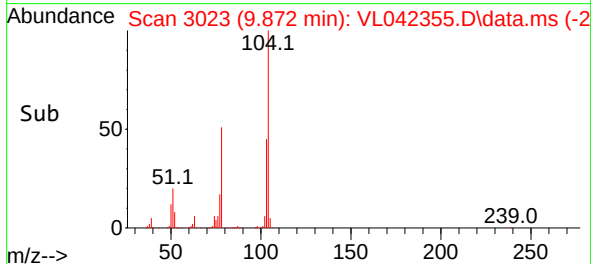
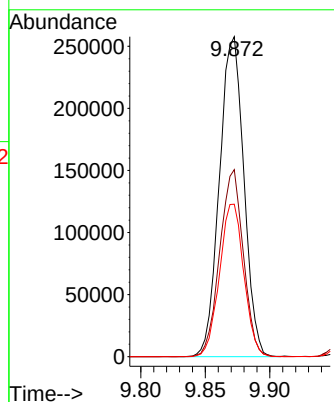
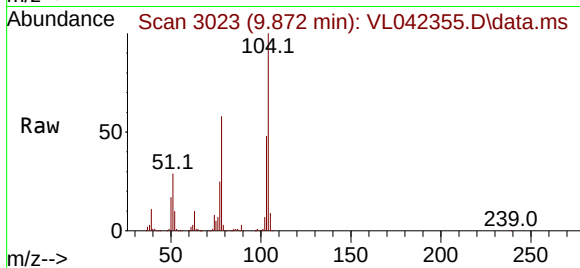




#61
Styrene
Concen: 14.347 ppbv
RT: 9.872 min Scan# 3023
Delta R.T. 0.004 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

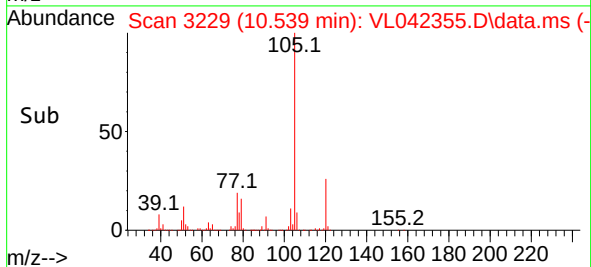
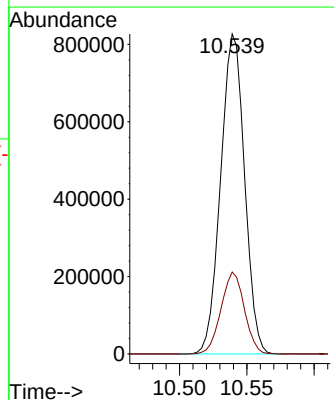
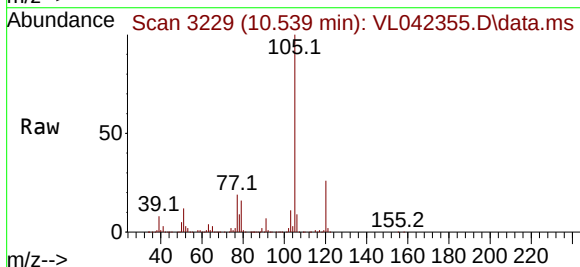
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

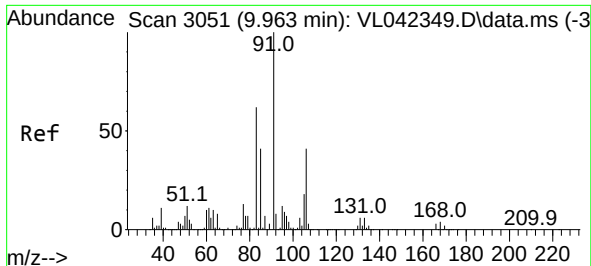
Tgt Ion:104 Resp: 339508
Ion Ratio Lower Upper
104 100
78 56.4 44.6 66.8
103 47.3 37.4 56.0



#62
Isopropylbenzene
Concen: 13.999 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:105 Resp: 1018968
Ion Ratio Lower Upper
105 100
120 25.0 19.8 29.8

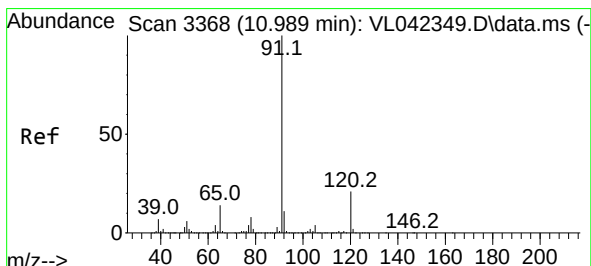
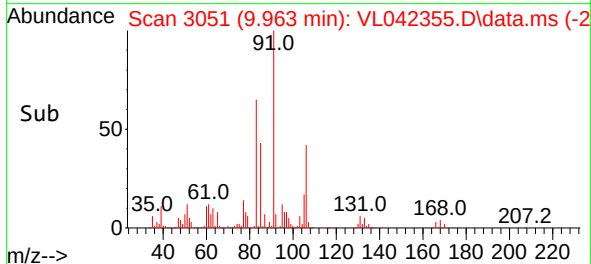
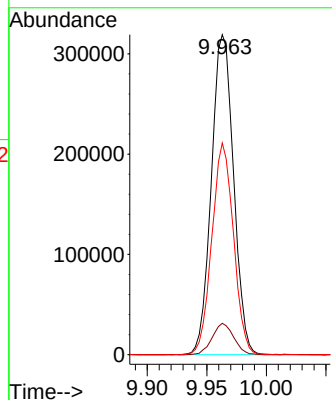
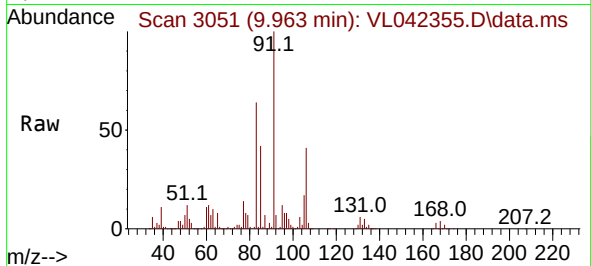




#63
1,1,2,2-Tetrachloroethane
Concen: 12.816 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

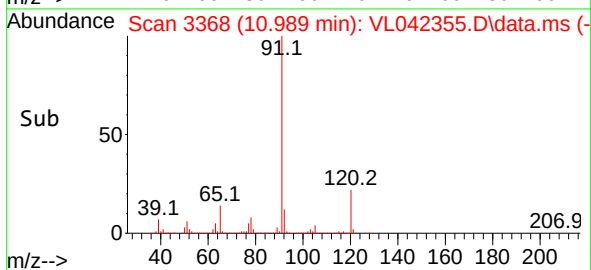
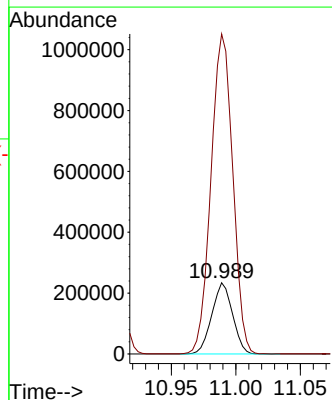
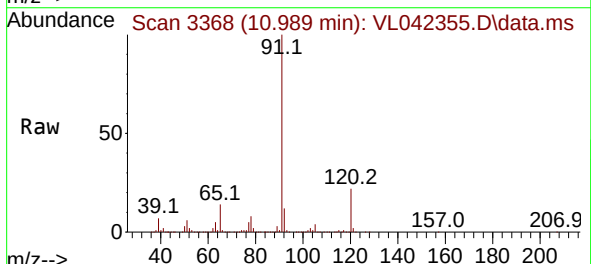
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

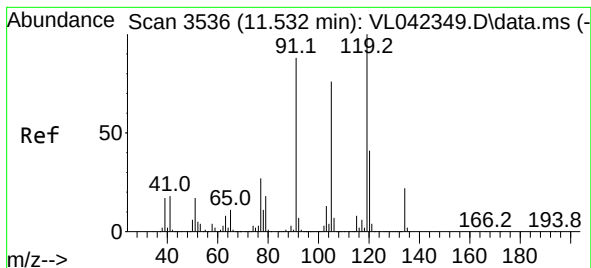
Tgt Ion: 83 Resp: 412898
Ion Ratio Lower Upper
83 100
131 9.5 4.5 13.7
85 64.5 32.4 97.0



#64
n-propylbenzene
Concen: 14.255 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 120 Resp: 260812
Ion Ratio Lower Upper
120 100
91 473.2 392.4 588.6





#65

tert-Butylbenzene

Concen: 13.449 ppbv

RT: 11.533 min Scan# 3536

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC015

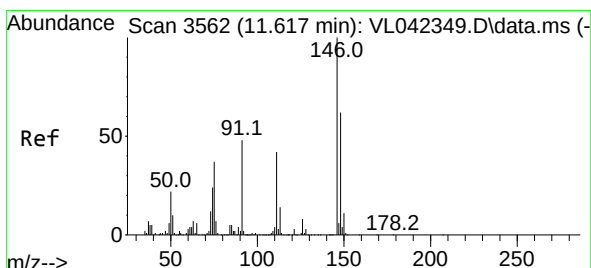
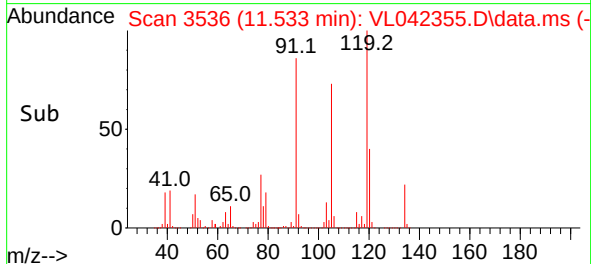
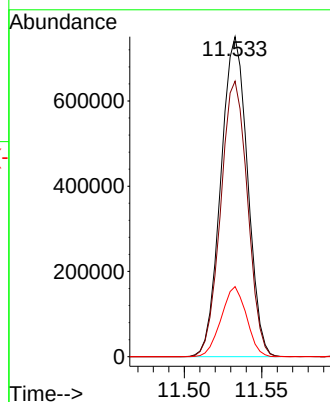
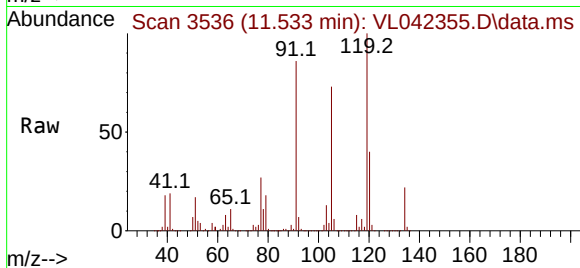
Tgt Ion:119 Resp: 899720

Ion Ratio Lower Upper

119 100

91 86.2 74.6 111.8

134 20.8 18.8 28.2



#66

Benzyl Chloride

Concen: 13.061 ppbv

RT: 11.617 min Scan# 3562

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

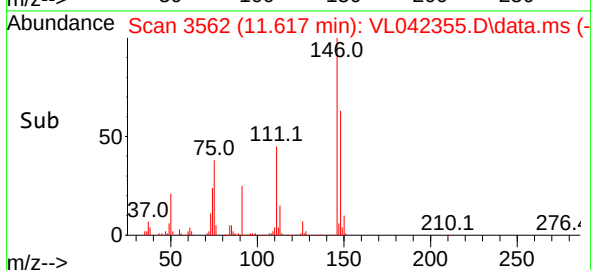
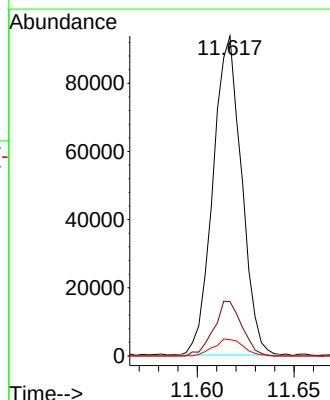
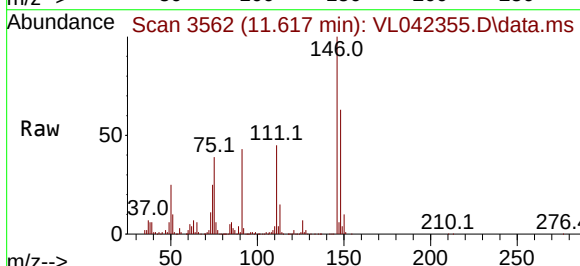
Tgt Ion: 91 Resp: 96016

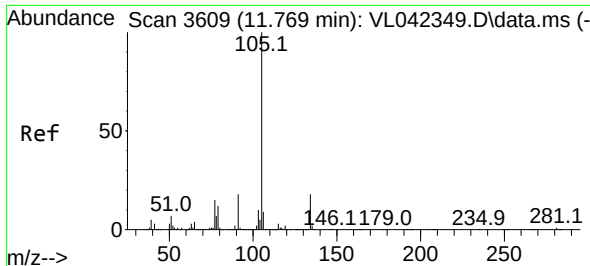
Ion Ratio Lower Upper

91 100

126 16.8 11.8 17.6

128 5.5 4.5 6.7

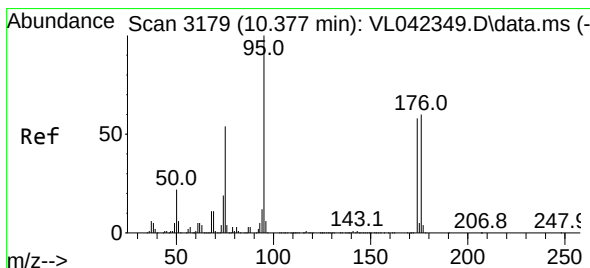
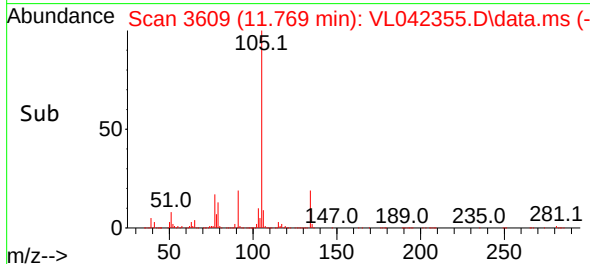
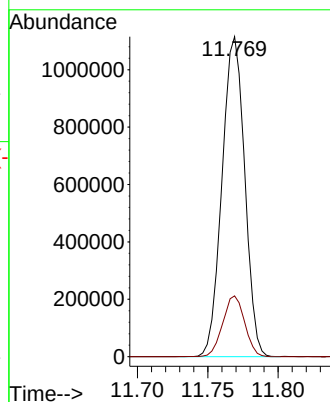
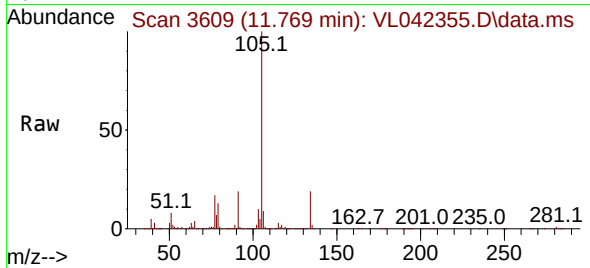




#67
 sec-Butylbenzene
 Concen: 13.468 ppbv
 RT: 11.769 min Scan# 3609
 Delta R.T. 0.000 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54

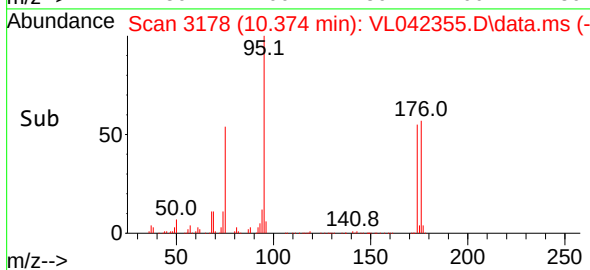
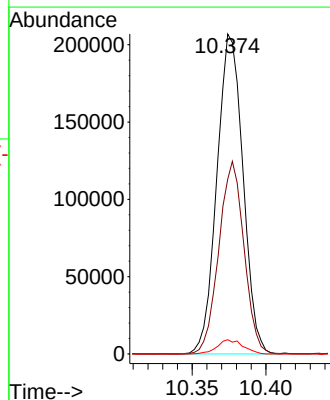
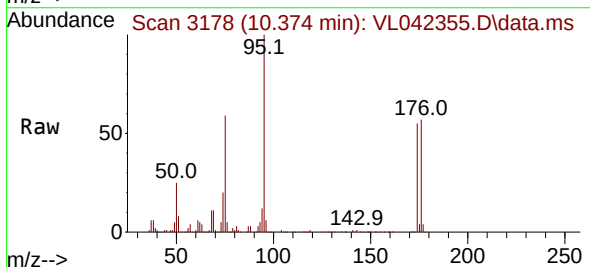
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

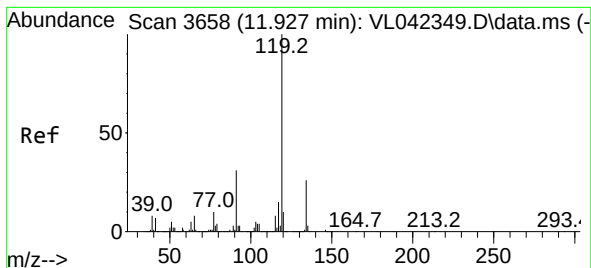
Tgt Ion:105 Resp: 1253263
 Ion Ratio Lower Upper
 105 100
 134 18.4 14.6 21.8



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.038 ppbv
 RT: 10.374 min Scan# 3178
 Delta R.T. -0.003 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54

Tgt Ion: 95 Resp: 254437
 Ion Ratio Lower Upper
 95 100
 174 58.1 48.5 72.7
 175 4.4 3.7 5.5





#69

p-Isopropyltoluene

Concen: 13.382 ppbv

RT: 11.928 min Scan# 3658

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

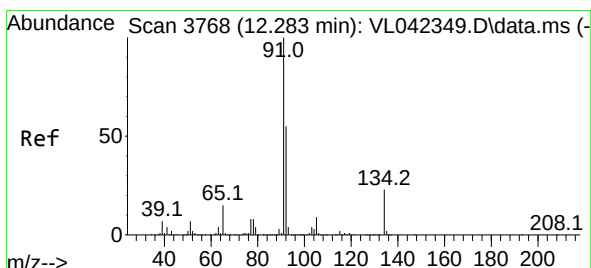
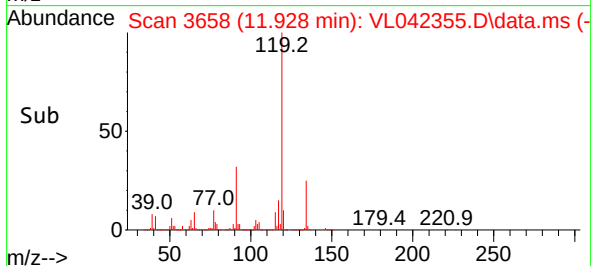
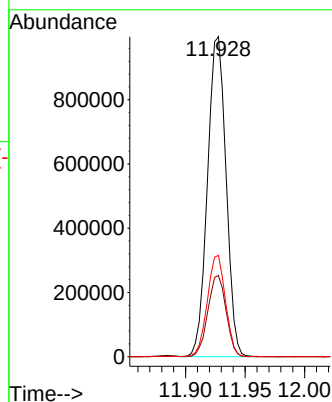
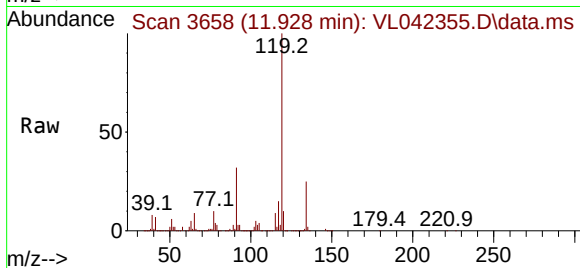
Tgt Ion:119 Resp: 1081850

Ion Ratio Lower Upper

119 100

134 25.0 20.0 30.0

91 31.1 24.4 36.6



#70

n-Butylbenzene

Concen: 13.266 ppbv

RT: 12.284 min Scan# 3768

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

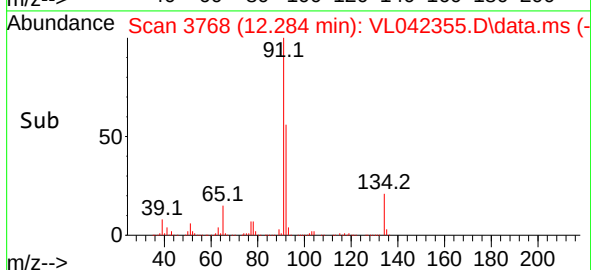
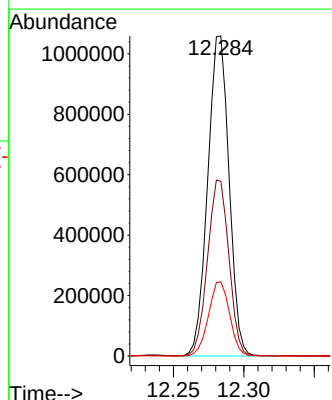
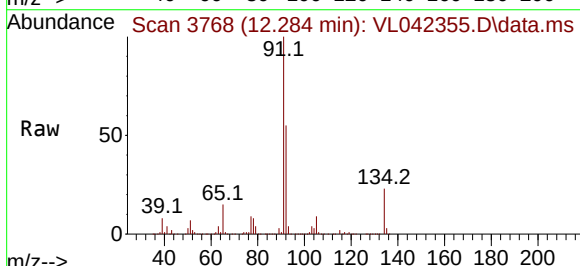
Tgt Ion: 91 Resp: 1117042

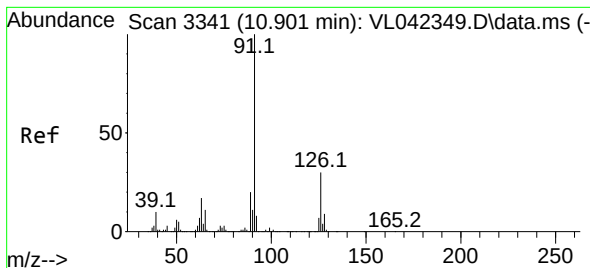
Ion Ratio Lower Upper

91 100

92 55.3 44.2 66.4

134 23.0 18.2 27.4

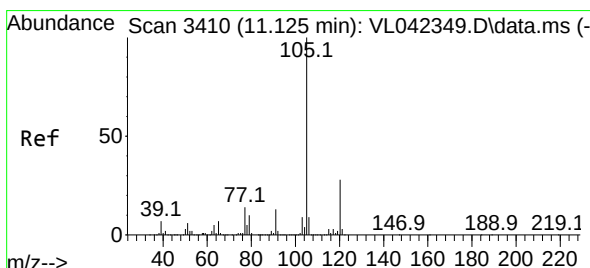
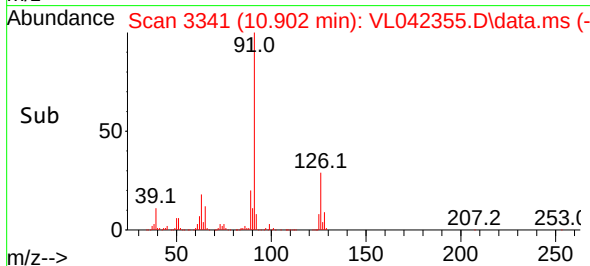
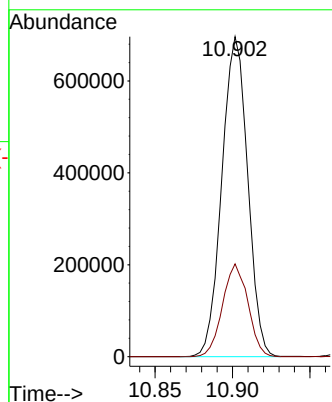
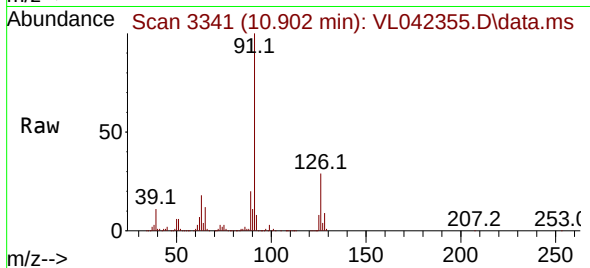




#71
2-Chlorotoluene
Concen: 14.131 ppbv
RT: 10.902 min Scan# 3341
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

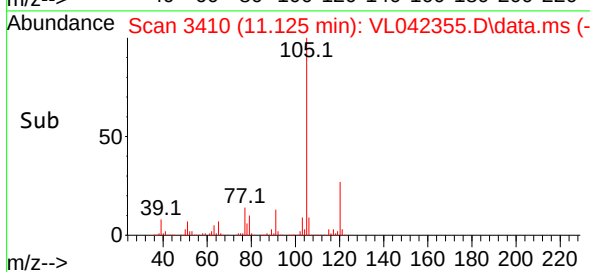
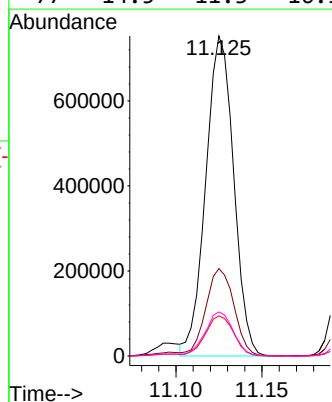
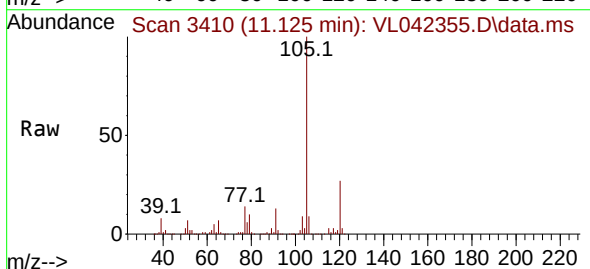
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

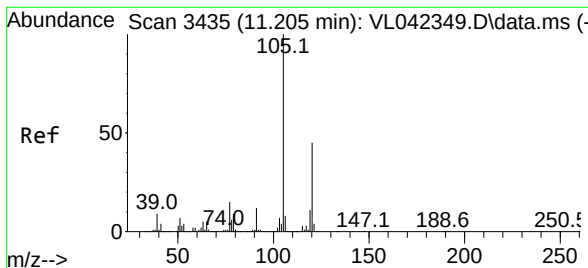
Tgt Ion: 91 Resp: 806728
Ion Ratio Lower Upper
91 100
126 28.4 11.4 45.4



#72
4-Ethyltoluene
Concen: 13.992 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:105 Resp: 848077
Ion Ratio Lower Upper
105 100
120 28.7 23.2 34.8
91 13.5 10.4 15.6
77 14.5 11.3 16.9





#73

1,3,5-Trimethylbenzene

Concen: 13.578 ppbv

RT: 11.206 min Scan# 3435

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Instrument :

MSVOA_1

ClientSampleId :

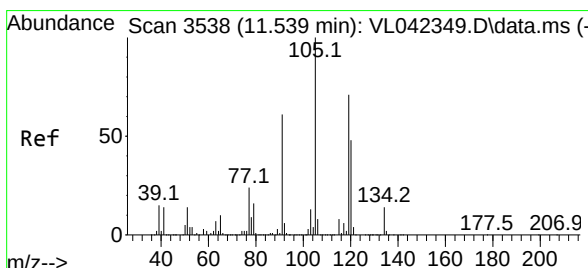
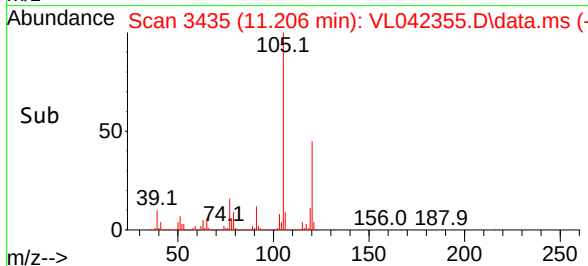
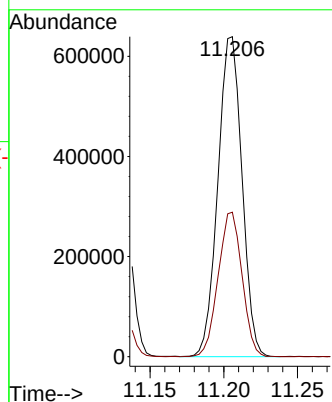
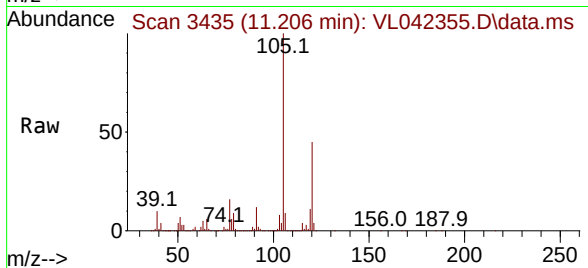
VSTDIC015

Tgt Ion:105 Resp: 726558

Ion Ratio Lower Upper

105 100

120 45.1 35.6 53.4



#74

1,2,4-Trimethylbenzene

Concen: 12.572 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Tgt Ion:105 Resp: 785772

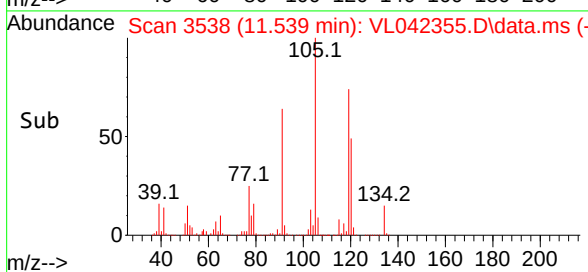
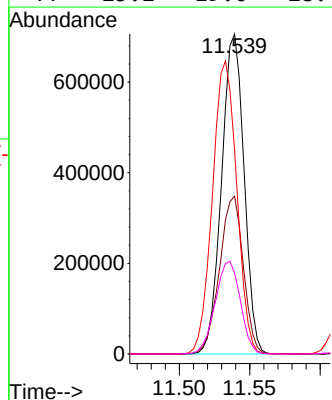
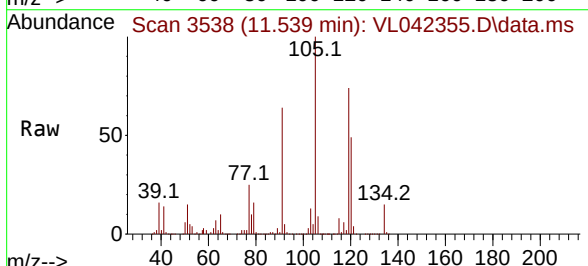
Ion Ratio Lower Upper

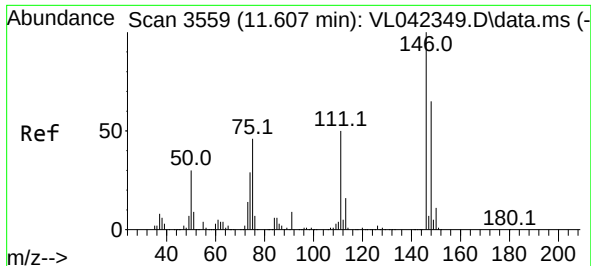
105 100

120 49.3 38.1 57.1

91 63.7 48.8 73.2

77 25.2 19.0 28.4

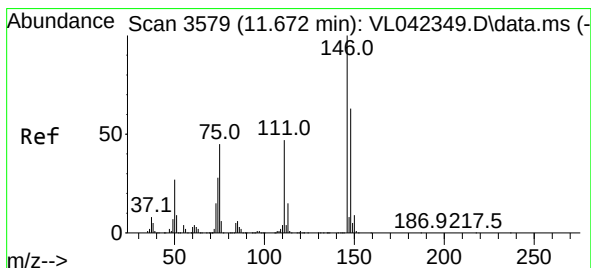
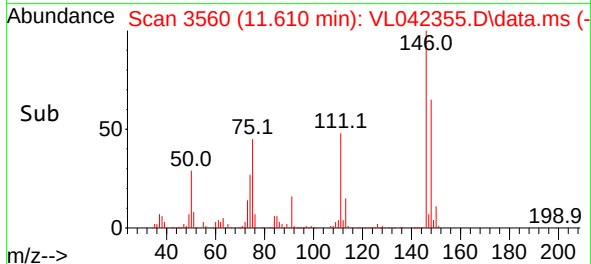
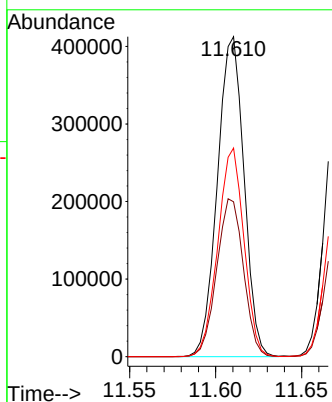
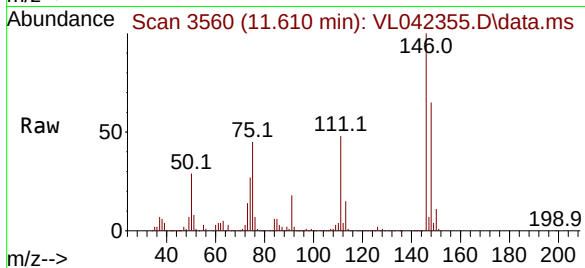




#75
1,3-Dichlorobenzene
Concen: 13.670 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. 0.004 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

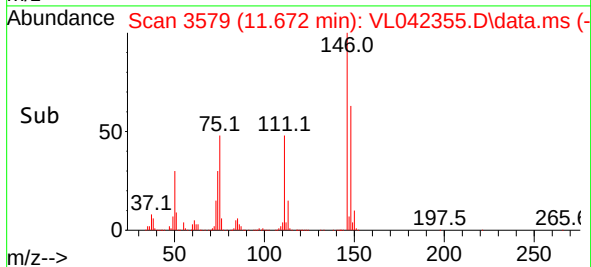
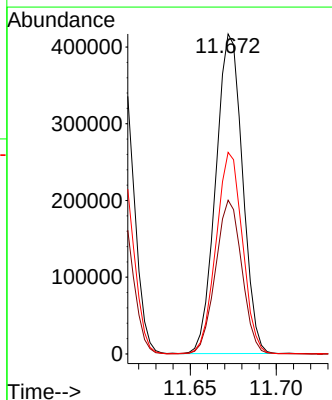
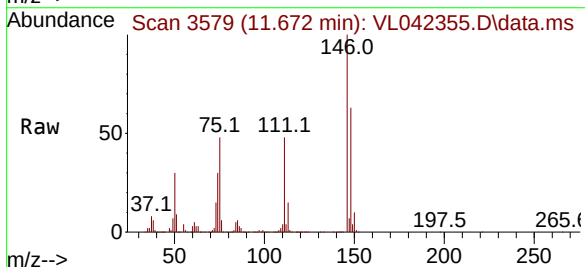
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

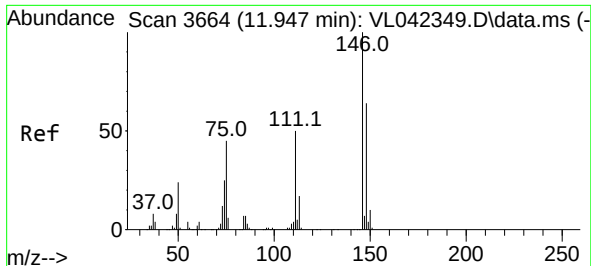
Tgt Ion:146 Resp: 444086
Ion Ratio Lower Upper
146 100
111 49.6 24.3 72.8
148 63.9 31.6 94.8



#76
1,4-Dichlorobenzene
Concen: 13.802 ppbv
RT: 11.672 min Scan# 3579
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:146 Resp: 450662
Ion Ratio Lower Upper
146 100
111 47.4 24.2 72.6
148 62.6 32.1 96.5

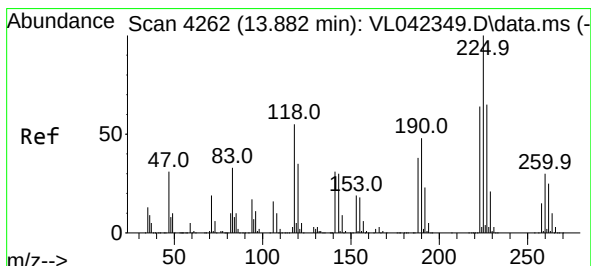
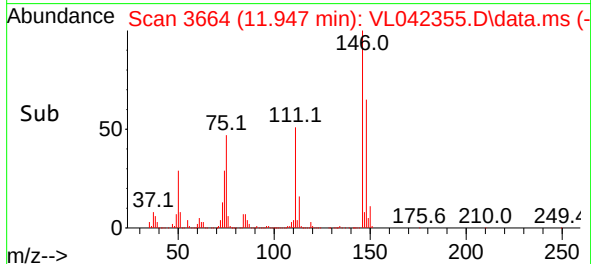
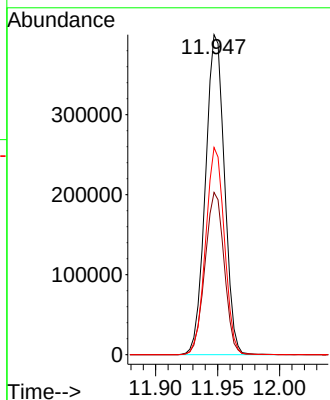
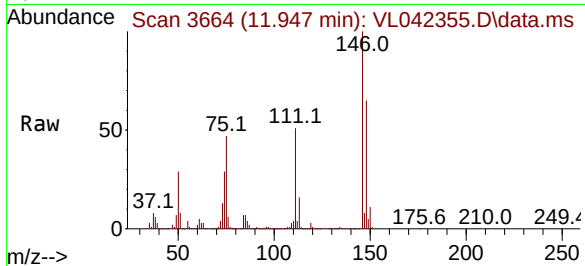




#77
1,2-Dichlorobenzene
Concen: 13.529 ppbv
RT: 11.947 min Scan# 3664
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

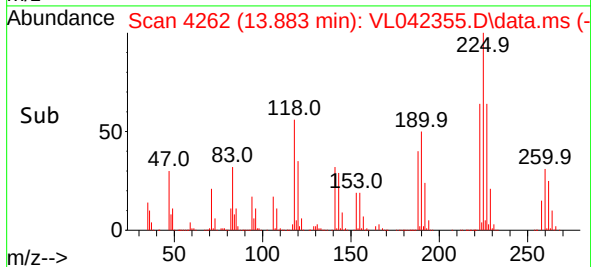
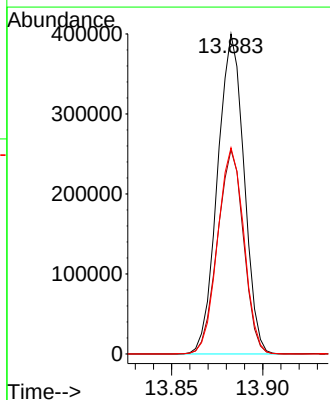
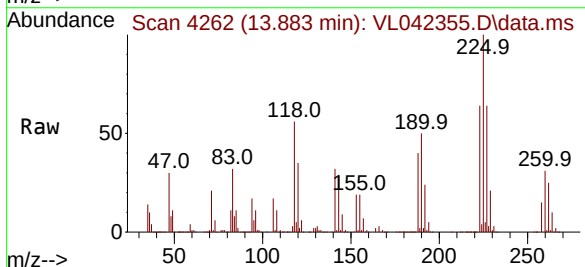
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

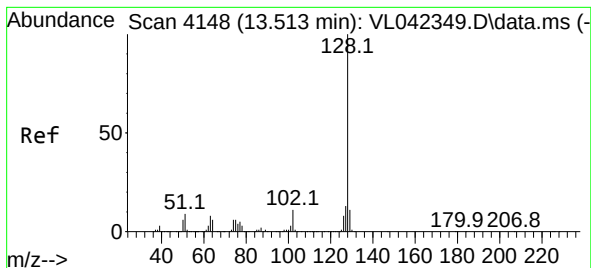
Tgt Ion:146 Resp: 427372
Ion Ratio Lower Upper
146 100
111 51.3 25.3 75.9
148 63.8 31.5 94.5



#78
Hexachloro-1,3-Butadiene
Concen: 12.679 ppbv
RT: 13.883 min Scan# 4262
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion:225 Resp: 404441
Ion Ratio Lower Upper
225 100
223 62.8 50.3 75.5
227 63.8 51.5 77.3





#79

Naphthalene

Concen: 12.632 ppbv

RT: 13.514 min Scan# 4148

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC015

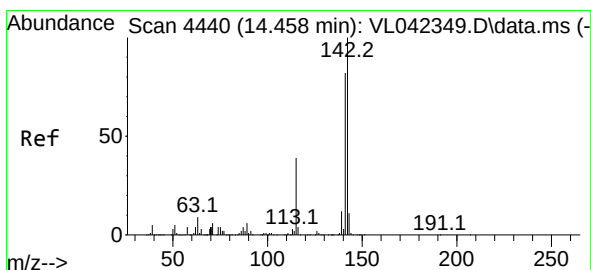
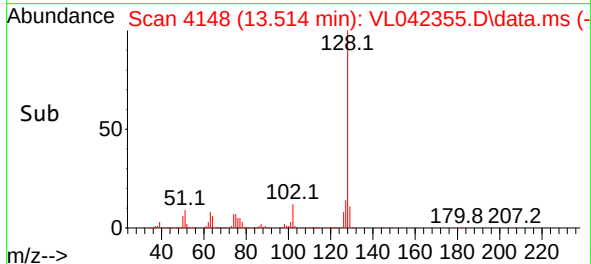
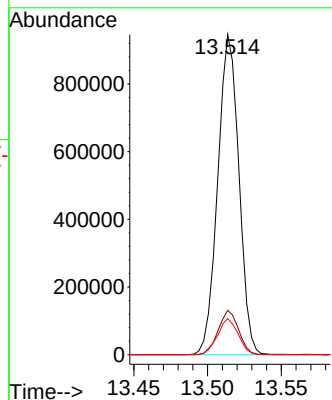
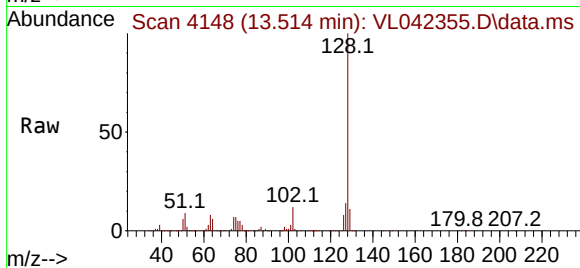
Tgt Ion:128 Resp: 944085

Ion Ratio Lower Upper

128 100

127 13.9 10.6 15.8

129 11.3 8.6 12.8



#80

Naphthalene,2-methyl-

Concen: 12.686 ppbv

RT: 14.459 min Scan# 4440

Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

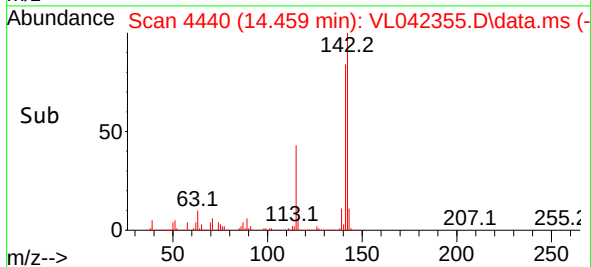
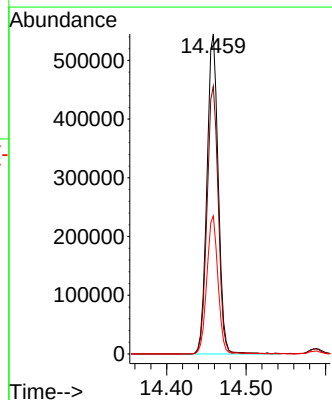
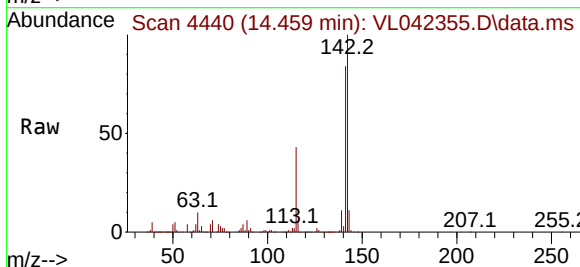
Tgt Ion:142 Resp: 540339

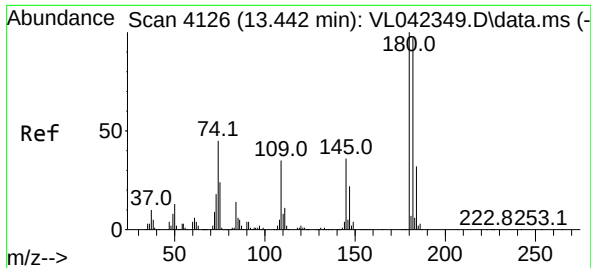
Ion Ratio Lower Upper

142 100

141 84.3 66.8 100.2

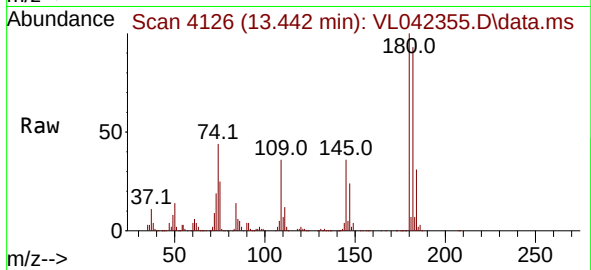
115 43.0 33.4 50.2





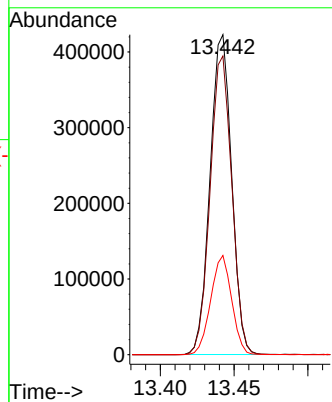
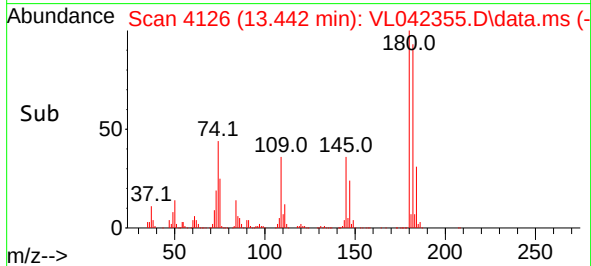
#81
 1,2,4-Trichlorobenzene
 Concen: 13.398 ppbv
 RT: 13.442 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



Tgt Ion:180 Resp: 429982

Ion	Ratio	Lower	Upper
180	100		
182	94.3	76.8	115.2
184	30.2	24.6	36.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042356.D
 Acq On : 17 Apr 2025 13:43
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL041725

Quant Time: Apr 18 02:15:19 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 02:14:00 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	113992	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.958	114	324528	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.881	117	305357	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	250149	9.969	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.700%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	197623	9.812	ppbv	100
3) Chlorodifluoromethane	1.476	51	191010	9.960	ppbv	99
4) Chloromethane	1.531	50	78080	9.796	ppbv	98
5) Vinyl Chloride	1.580	62	75628	8.717	ppbv	97
6) Bromomethane	1.667	94	35115	9.422	ppbv	84
7) Chloroethane	1.703	64	30158	9.612	ppbv	99
8) Dichlorotetrafluoroethane	1.554	85	172863	9.997	ppbv	98
9) Propene	1.482	41	84636	9.690	ppbv	95
10) Heptane	4.978	43	221840	9.041	ppbv	98
11) Trichlorofluoromethane	1.877	101	187827	9.807	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.140	101	148485	9.482	ppbv	100
13) Ethanol	1.722	45	4171	3.005	ppbv	97
14) Bromoethene	1.780	108	58320	9.880	ppbv	99
15) Acetone	1.835	43	158708	8.505	ppbv	100
16) 1,3-Butadiene	1.609	39	78804	8.829	ppbv	95
17) tert-Butyl alcohol	2.039	59	218954	9.468	ppbv	99
18) 1,1-Dichloroethene	2.033	96	67940	9.287	ppbv	94
19) Isopropyl Alcohol	1.887	45	96365	9.296	ppbv	95
20) Methylene Chloride	2.062	84	59203	8.101	ppbv	91
21) Allyl Chloride	2.094	41	120704	9.368	ppbv	98
22) trans-1,2-Dichloroethene	2.340	96	78070	9.373	ppbv	99
23) Vinyl Acetate	2.463	43	73373	9.714	ppbv	99
24) 1,1-Dichloroethane	2.408	63	155571	9.832	ppbv	100
25) Ethyl Acetate	2.835	43	449014	9.759	ppbv	99
26) Hexane	2.826	57	175752	9.439	ppbv	98
27) Carbon Disulfide	2.149	76	191117	9.587	ppbv	100
28) Methyl tert-Butyl Ether	2.441	73	115190	9.442	ppbv	94
29) Chloroform	2.848	83	260855	9.912	ppbv	98
30) Cyclohexane	3.855	84	148246	9.849	ppbv	99
31) cis-1,2-Dichloroethene	2.719	61	179993	10.167	ppbv	99
32) 1,1,1-Trichloroethane	3.369	97	276599	9.336	ppbv	98
34) 2-Butanone	2.557	43	248969	9.700	ppbv	99
35) Carbon Tetrachloride	3.764	117	271862	9.256	ppbv	98
36) Benzene	3.657	78	350545	10.014	ppbv	99
37) 1,2-Dichloroethane	3.217	62	211790	10.081	ppbv	99
38) Trichloroethene	4.551	130	139872	9.143	ppbv	96
39) 1,2-Dichloropropane	4.315	63	129239	9.908	ppbv	99
40) 1,4-Dioxane	4.583	88	61587	8.591	ppbv #	96
41) Tetrahydrofuran	3.052	42	141861	9.479	ppbv	99
42) Bromodichloromethane	4.489	83	296946	10.156	ppbv	96
43) Methyl Methacrylate	4.878	69	149209	9.458	ppbv	96
44) 2,2,4-Trimethylpentane	4.641	57	606376	10.030	ppbv	99
45) t-1,3-Dichloropropene	6.412	75	160750	9.975	ppbv	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042356.D
 Acq On : 17 Apr 2025 13:43
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL041725

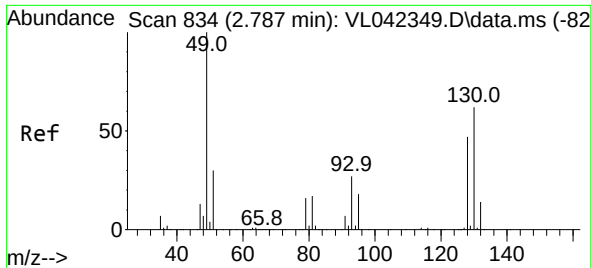
Quant Time: Apr 18 02:15:19 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 02:14:00 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.599	75	200144	10.148	ppbv	88
47) 1,1,2-Trichloroethane	6.583	97	135575	10.202	ppbv	95
48) Dibromochloromethane	7.389	129	237206	10.103	ppbv	100
49) Bromoform	9.483	173	205630	10.016	ppbv	99
50) 4-Methyl-2-Pentanone	5.748	43	376145	8.819	ppbv	99
51) 2-Hexanone	7.435	43	310521	8.118	ppbv #	99
52) Tetrachloroethene	8.224	164	119424	8.827	ppbv	94
53) Toluene	6.933	91	419462	9.986	ppbv	99
54) 1,2-Dibromoethane	7.652	107	186231	9.792	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.927	131	182712	9.886	ppbv	97
57) Chlorobenzene	8.920	112	304533	9.589	ppbv	96
58) Ethyl Benzene	9.354	91	583515	9.645	ppbv	99
59) m/p-Xylene	9.551	91	442744	9.084	ppbv #	26
60) o-Xylene	9.966	91	464522	9.465	ppbv	99
61) Styrene	9.872	104	229869	9.813	ppbv	98
62) Isopropylbenzene	10.539	105	685965	9.520	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.962	83	279007	8.773	ppbv	100
64) n-propylbenzene	10.992	120	172654	9.533	ppbv	99
65) tert-Butylbenzene	11.532	119	609500	9.203	ppbv	93
66) Benzyl Chloride	11.613	91	63051	8.664	ppbv	95
67) sec-Butylbenzene	11.769	105	853807	9.268	ppbv	99
69) p-Isopropyltoluene	11.927	119	737861	9.220	ppbv	99
70) n-Butylbenzene	12.283	91	771461	9.255	ppbv	100
71) 2-Chlorotoluene	10.901	91	543794	9.622	ppbv	98
72) 4-Ethyltoluene	11.124	105	563136	9.385	ppbv	100
73) 1,3,5-Trimethylbenzene	11.205	105	486583	9.186	ppbv	99
74) 1,2,4-Trimethylbenzene	11.539	105	531576	8.592	ppbv	97
75) 1,3-Dichlorobenzene	11.610	146	297157	9.240	ppbv	99
76) 1,4-Dichlorobenzene	11.671	146	297697	9.210	ppbv	98
77) 1,2-Dichlorobenzene	11.950	146	289284	9.251	ppbv	100
78) Hexachloro-1,3-Butadiene	13.882	225	276960	8.771	ppbv	100
79) Naphthalene	13.513	128	647349	8.750	ppbv	99
80) Naphthalene,2-methyl-	14.458	142	350259	8.307	ppbv	99
81) 1,2,4-Trichlorobenzene	13.442	180	290260	9.136	ppbv	99

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

Quant Time: Apr 18 02:15:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

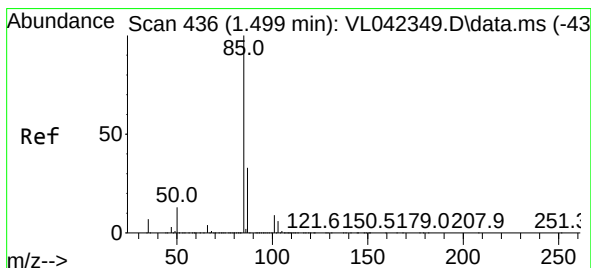
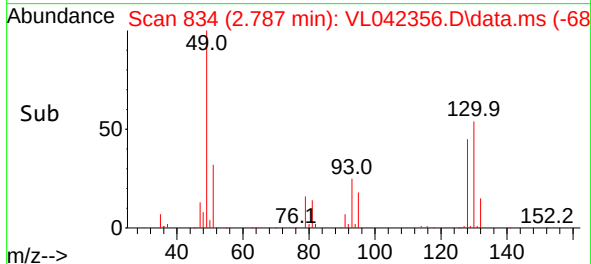
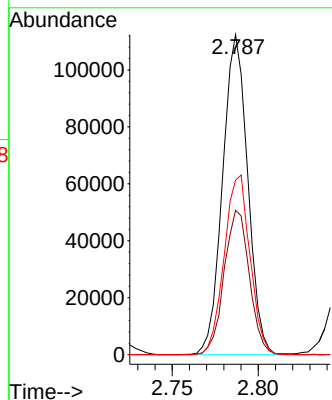
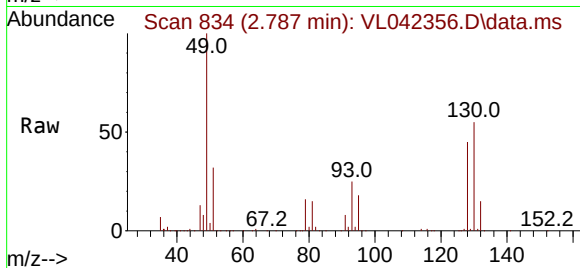




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.787 min Scan# 834
 Delta R.T. -0.000 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

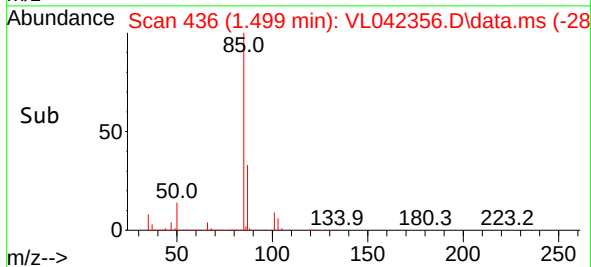
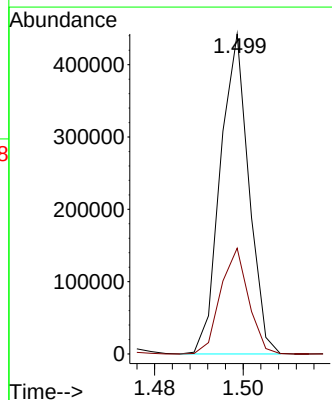
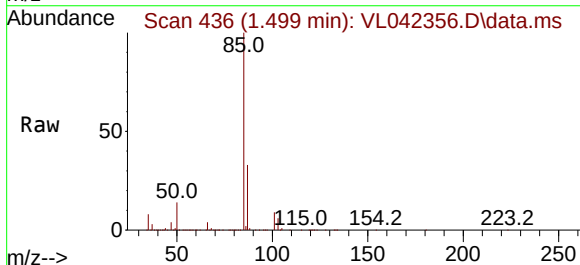
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL041725

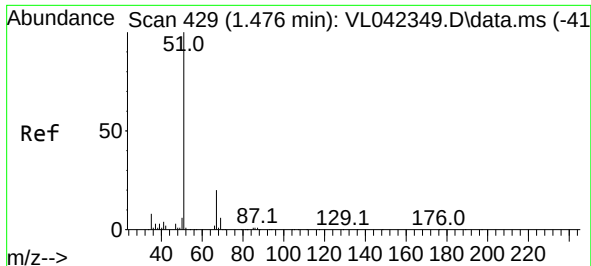
Tgt Ion: 49 Resp: 113992
 Ion Ratio Lower Upper
 49 100
 128 45.5 22.8 68.4
 130 57.8 29.3 88.0



#2
 Dichlorodifluoromethane
 Concen: 9.812 ppbv
 RT: 1.499 min Scan# 436
 Delta R.T. -0.000 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

Tgt Ion: 85 Resp: 197623
 Ion Ratio Lower Upper
 85 100
 87 33.1 26.6 39.8

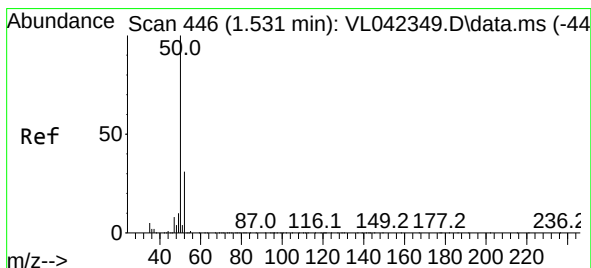
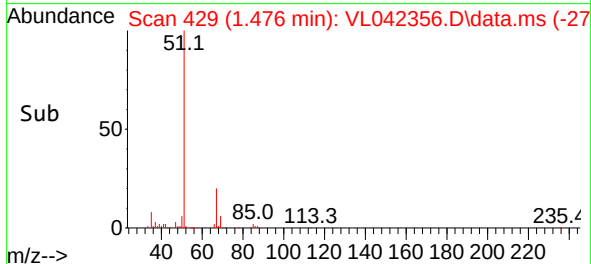
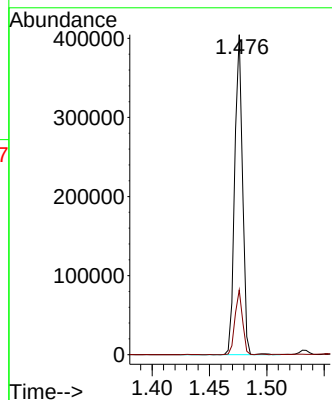
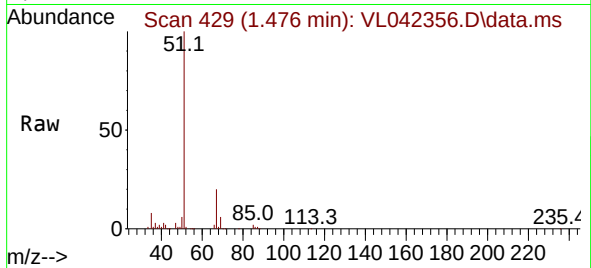




#3
Chlorodifluoromethane
Concen: 9.960 ppbv
RT: 1.476 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

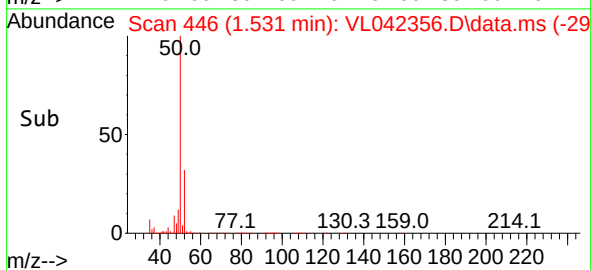
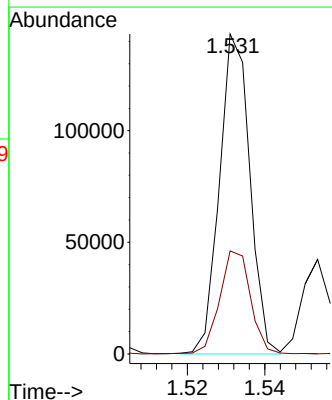
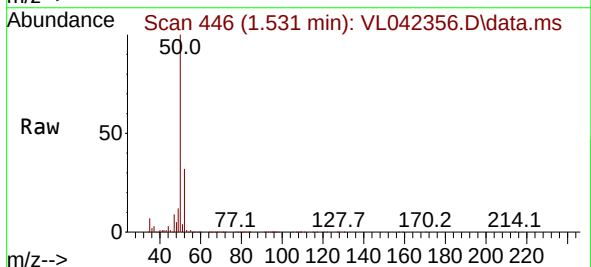
Instrument :
MSVOA_1
ClientSampleId :
ICVVL041725

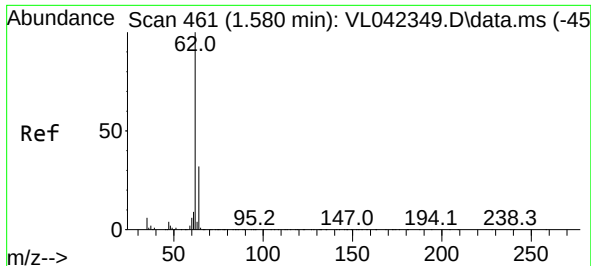
Tgt Ion: 51 Resp: 191010
Ion Ratio Lower Upper
51 100
67 19.6 16.2 24.4



#4
Chloromethane
Concen: 9.796 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 50 Resp: 78080
Ion Ratio Lower Upper
50 100
52 32.0 24.7 37.1

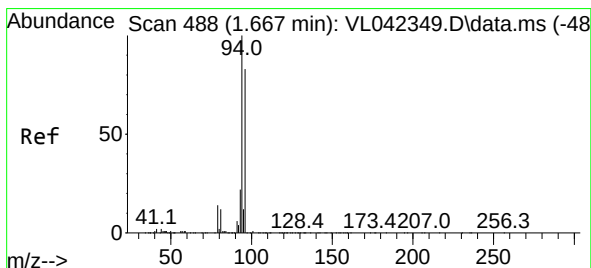
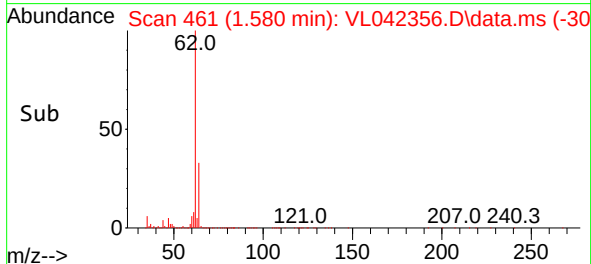
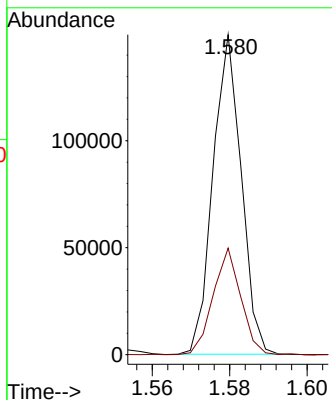
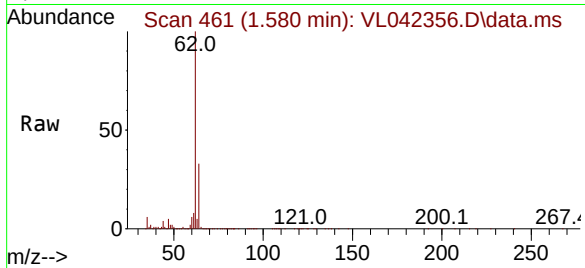




#5
 Vinyl Chloride
 Concen: 8.717 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. -0.000 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

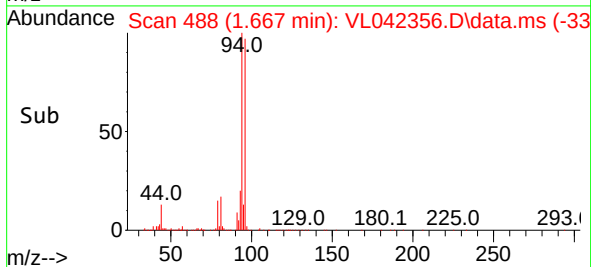
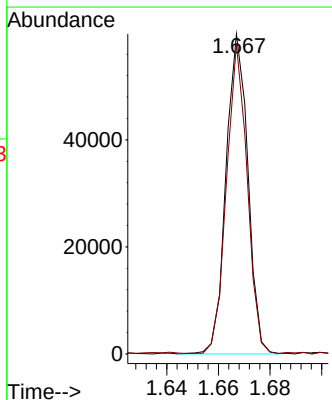
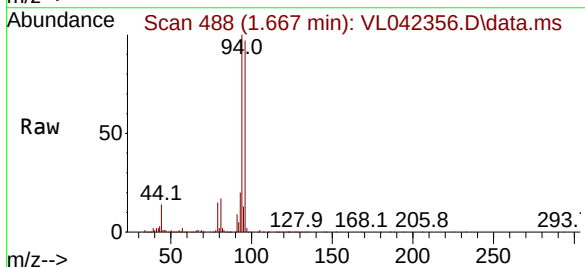
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL041725

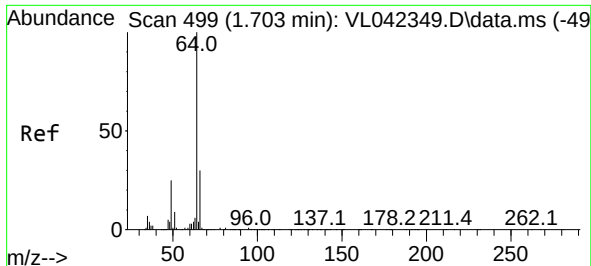
Tgt Ion: 62 Resp: 75628
 Ion Ratio Lower Upper
 62 100
 64 33.3 25.4 38.0



#6
 Bromomethane
 Concen: 9.422 ppbv
 RT: 1.667 min Scan# 488
 Delta R.T. -0.000 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

Tgt Ion: 94 Resp: 35115
 Ion Ratio Lower Upper
 94 100
 96 96.8 66.2 99.2

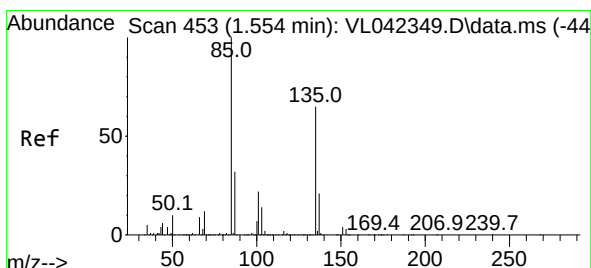
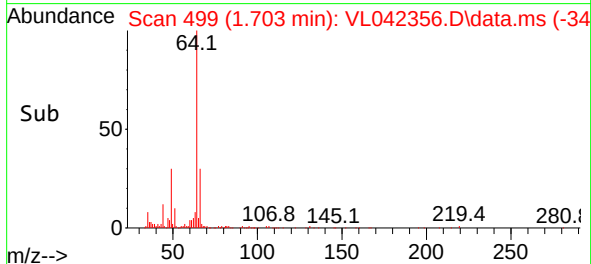
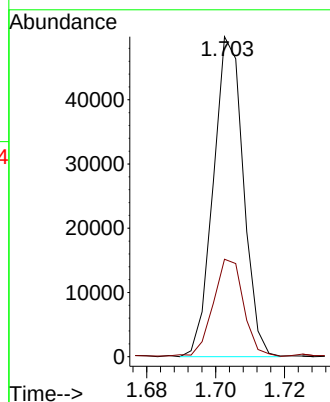
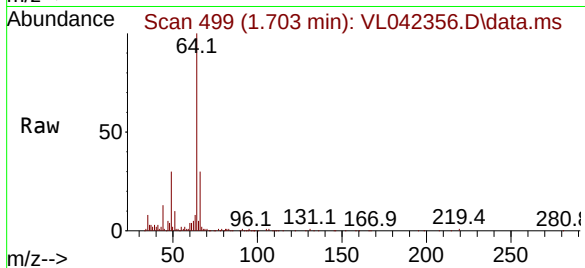




#7
Chloroethane
Concen: 9.612 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

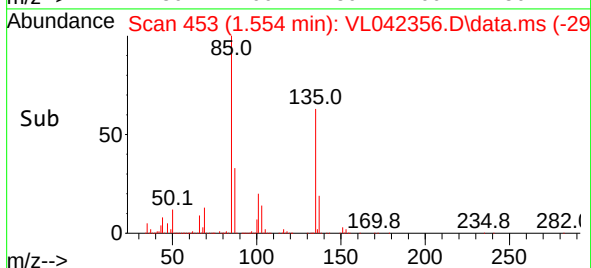
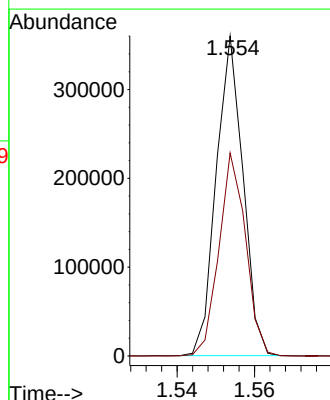
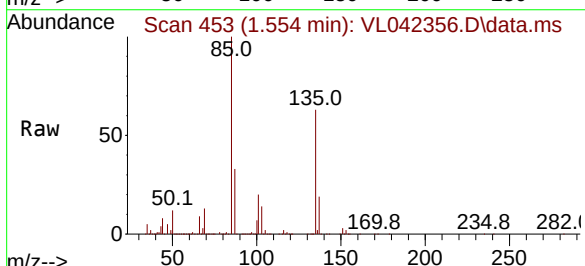
Instrument :
MSVOA_1
ClientSampleId :
ICVVL041725

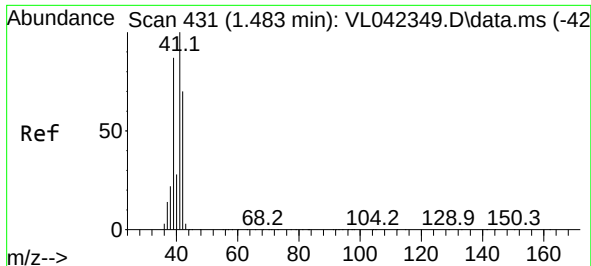
Tgt Ion: 64 Resp: 30158
Ion Ratio Lower Upper
64 100
66 30.4 24.6 37.0



#8
Dichlorotetrafluoroethane
Concen: 9.997 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 85 Resp: 172863
Ion Ratio Lower Upper
85 100
135 63.5 52.2 78.2





#9

Propene

Concen: 9.690 ppbv

RT: 1.482 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

Instrument :

MSVOA_L

ClientSampleId :

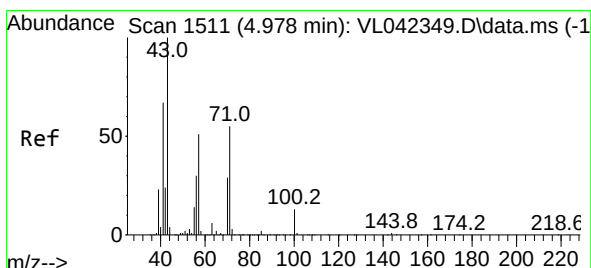
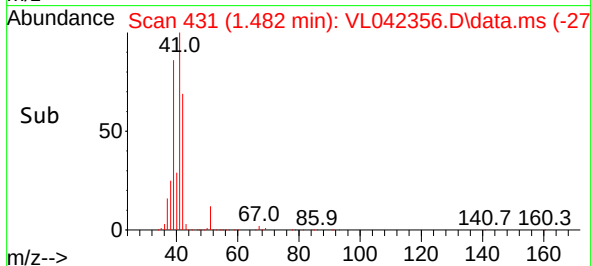
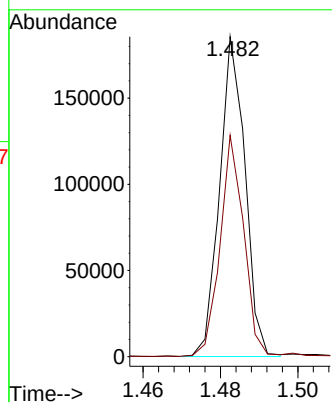
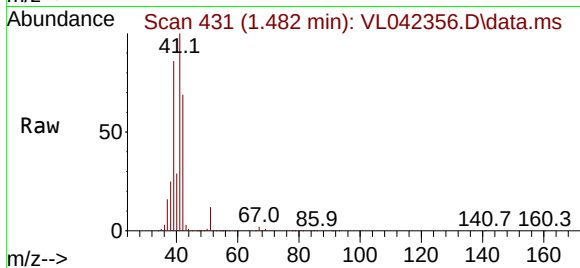
ICVVL041725

Tgt Ion: 41 Resp: 84636

Ion Ratio Lower Upper

41 100

42 65.8 56.2 84.4



#10

Heptane

Concen: 9.041 ppbv

RT: 4.978 min Scan# 1511

Delta R.T. -0.000 min

Lab File: VL042356.D

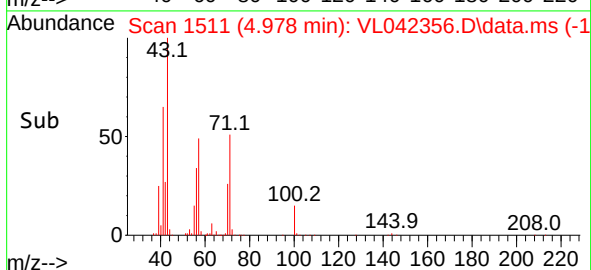
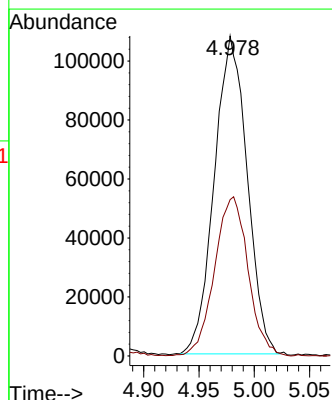
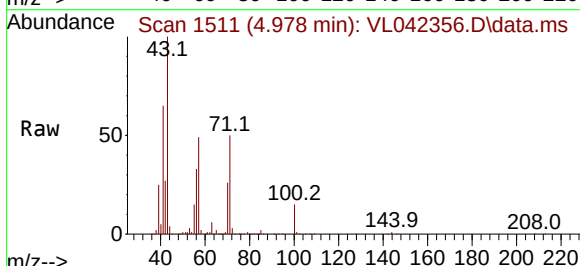
Acq: 17 Apr 2025 13:43

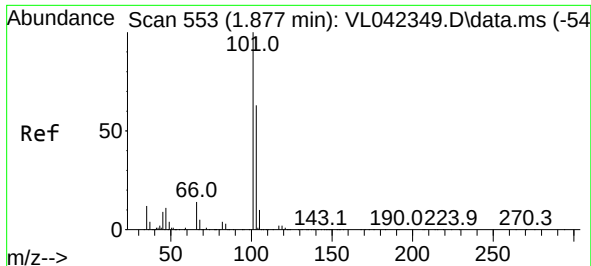
Tgt Ion: 43 Resp: 221840

Ion Ratio Lower Upper

43 100

57 51.4 39.9 59.9

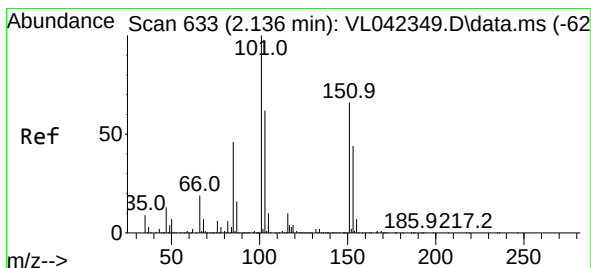
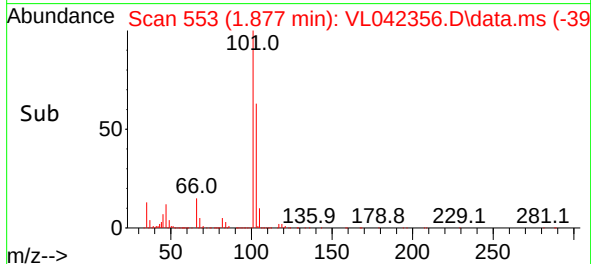
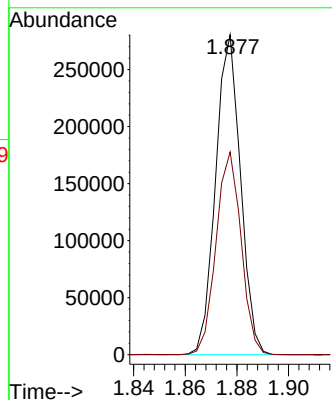
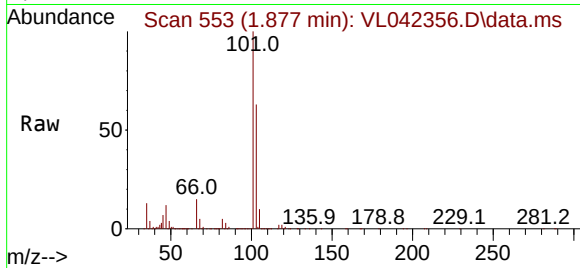




#11
 Trichlorofluoromethane
 Concen: 9.807 ppbv
 RT: 1.877 min Scan# 51
 Delta R.T. -0.000 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

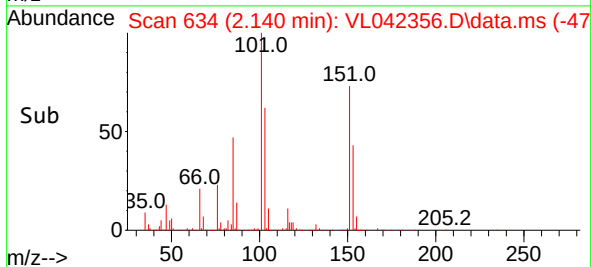
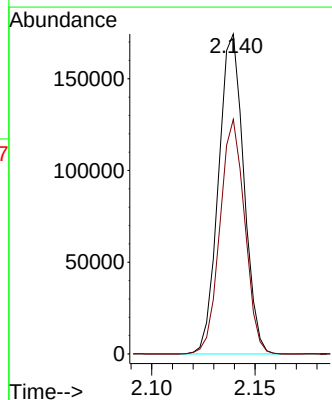
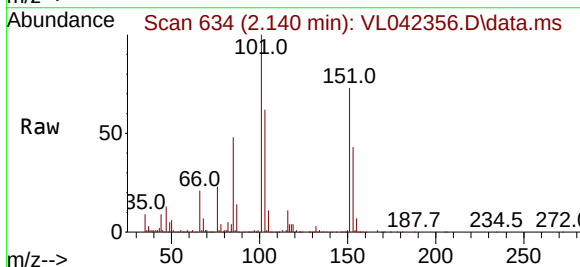
Instrument :
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 ClientSampleId :
 ICVVL041725

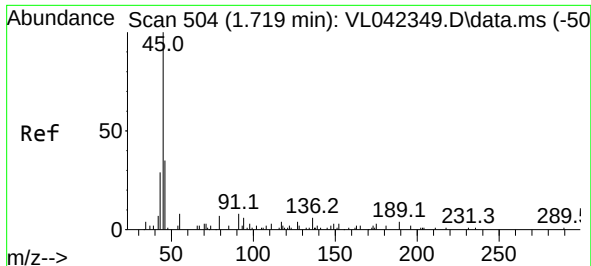
Tgt Ion:101 Resp: 187827
 Ion Ratio Lower Upper
 101 100
 103 63.3 50.1 75.1



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.482 ppbv
 RT: 2.140 min Scan# 634
 Delta R.T. 0.003 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

Tgt Ion:101 Resp: 148485
 Ion Ratio Lower Upper
 101 100
 151 71.7 57.0 85.6





#13

Ethanol

Concen: 3.005 ppbv

RT: 1.722 min Scan# 504

Delta R.T. 0.003 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

Instrument :

MSVOA_L

ClientSampleId :

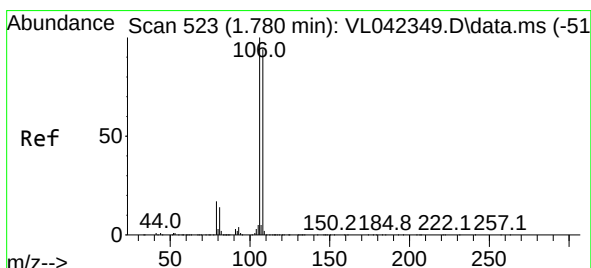
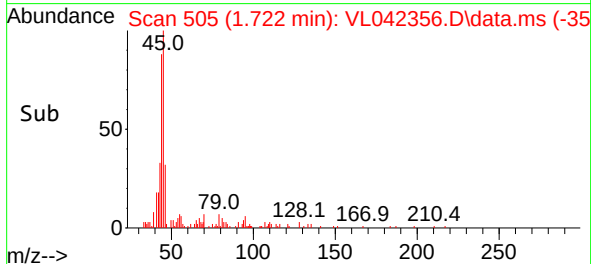
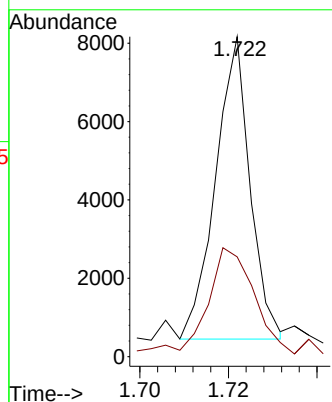
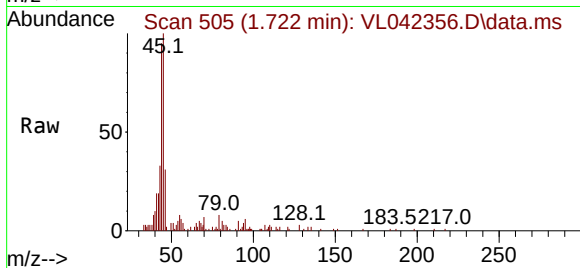
ICVVL041725

Tgt Ion: 45 Resp: 4171

Ion Ratio Lower Upper

45 100

46 57.0 21.9 87.7



#14

Bromoethene

Concen: 9.880 ppbv

RT: 1.780 min Scan# 523

Delta R.T. -0.000 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

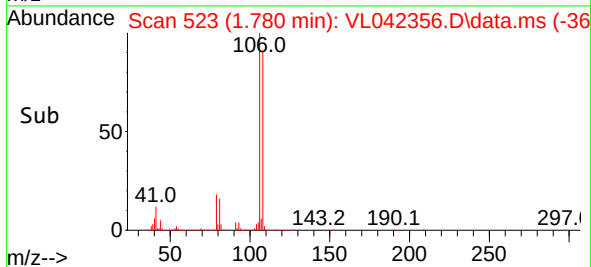
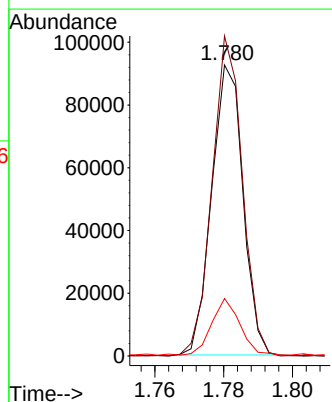
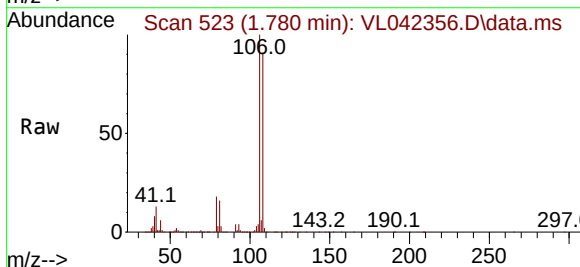
Tgt Ion: 108 Resp: 58320

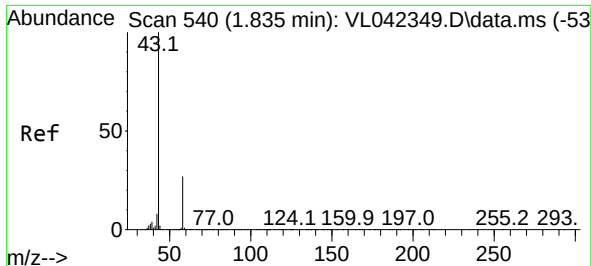
Ion Ratio Lower Upper

108 100

106 107.1 85.9 128.9

79 18.4 13.9 20.9

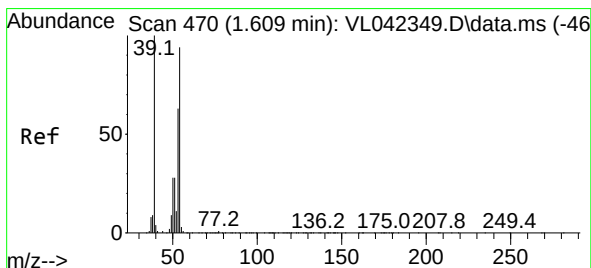
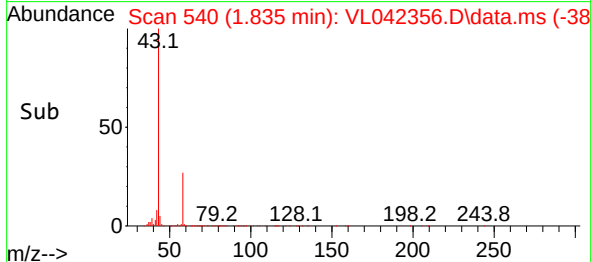
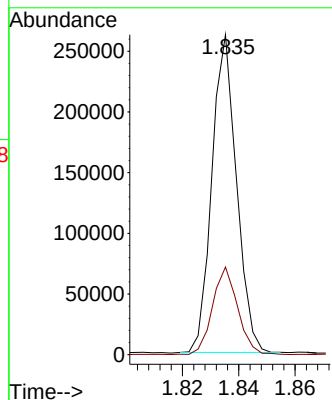
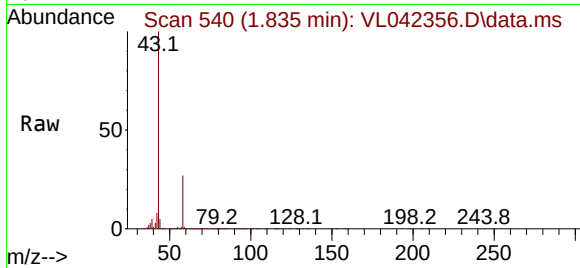




#15
Acetone
Concen: 8.505 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

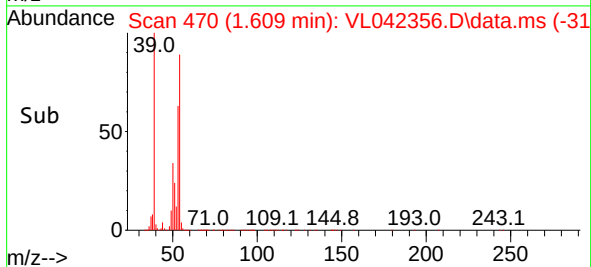
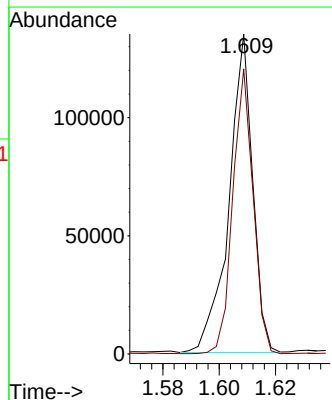
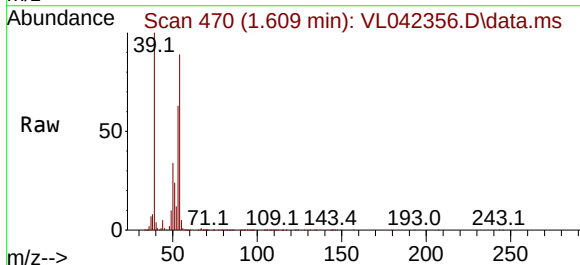
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ClientSampleId :
ICVVL041725

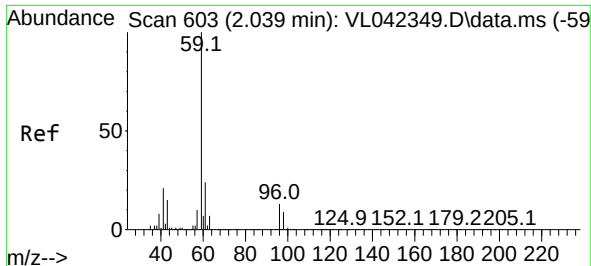
Tgt Ion: 43 Resp: 158708
Ion Ratio Lower Upper
43 100
58 28.0 22.4 33.6



#16
1,3-Butadiene
Concen: 8.829 ppbv
RT: 1.609 min Scan# 470
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 39 Resp: 78804
Ion Ratio Lower Upper
39 100
54 77.1 64.9 97.3

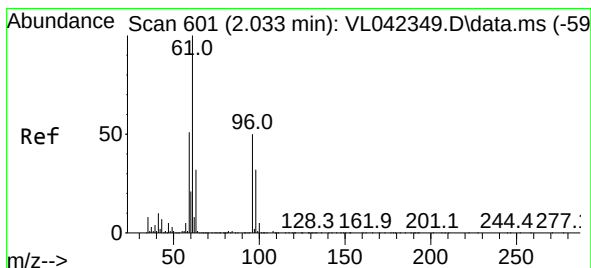
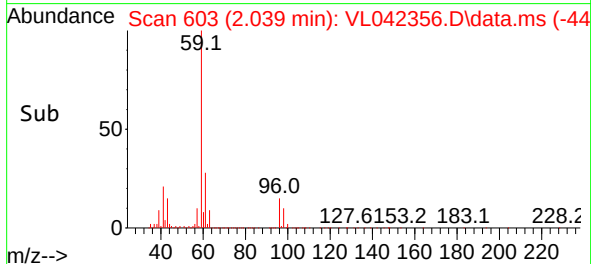
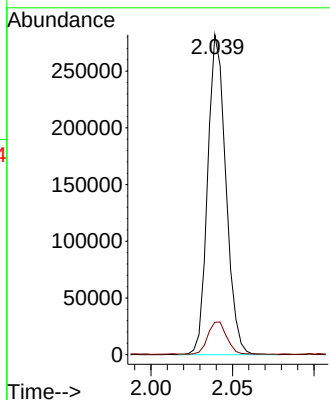
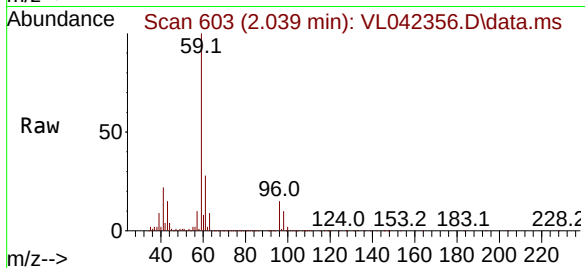




#17
tert-Butyl alcohol
Concen: 9.468 ppbv
RT: 2.039 min Scan# 603
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

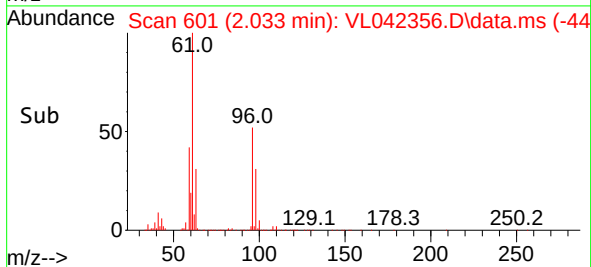
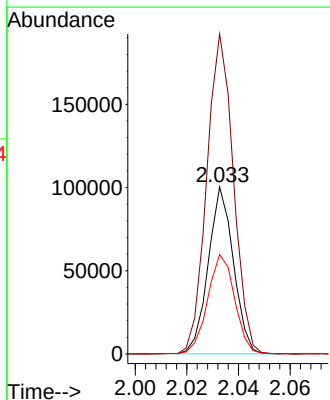
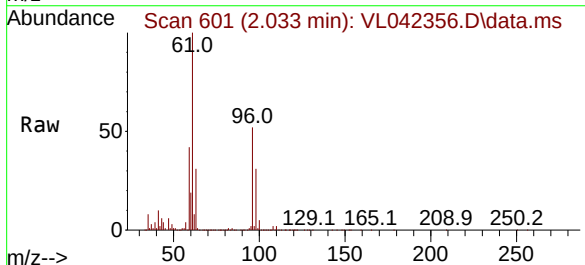
Instrument :
MSVOA_1
ClientSampleId :
ICVVL041725

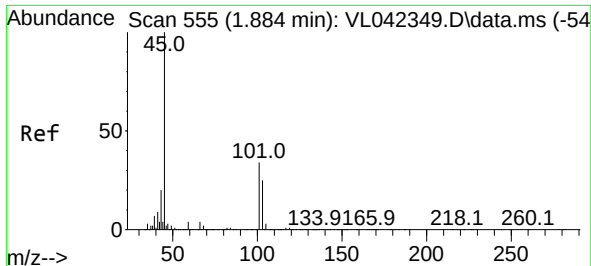
Tgt Ion: 59 Resp: 218954
Ion Ratio Lower Upper
59 100
57 10.6 8.7 13.1



#18
1,1-Dichloroethene
Concen: 9.287 ppbv
RT: 2.033 min Scan# 601
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 96 Resp: 67940
Ion Ratio Lower Upper
96 100
61 191.6 160.2 240.2
98 59.4 51.0 76.4

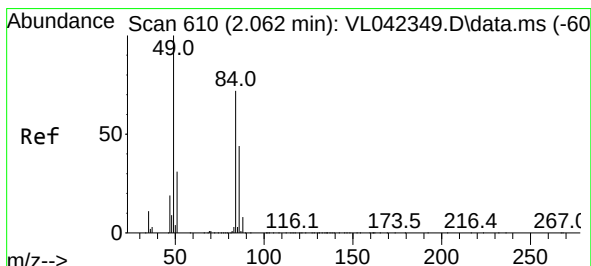
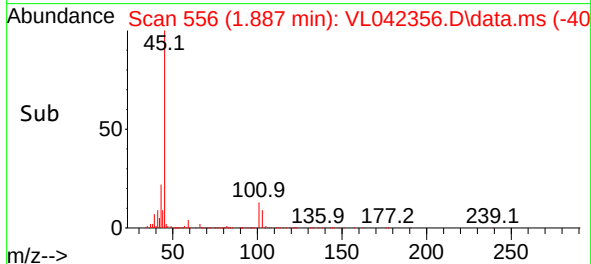
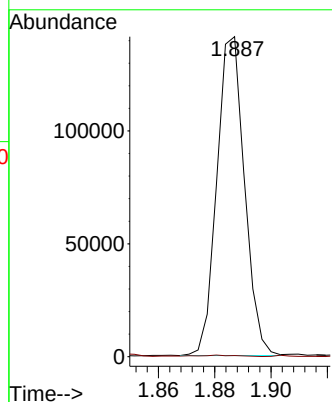
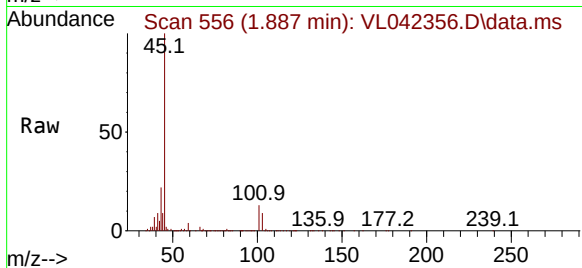




#19
Isopropyl Alcohol
Concen: 9.296 ppbv
RT: 1.887 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

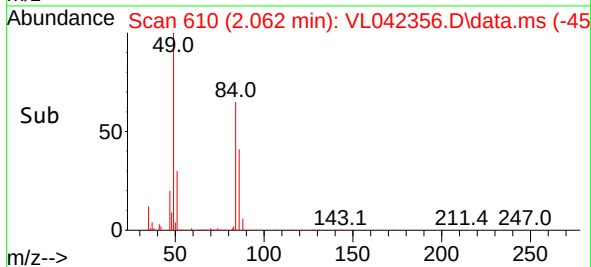
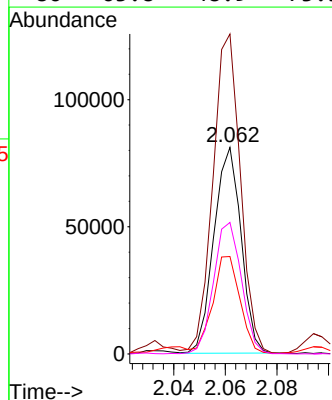
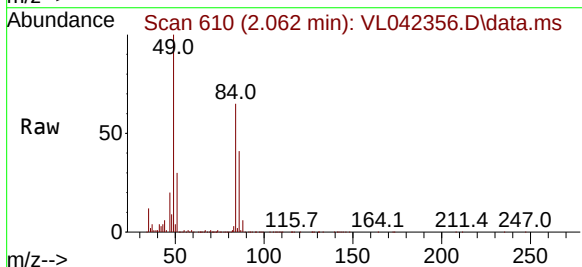
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

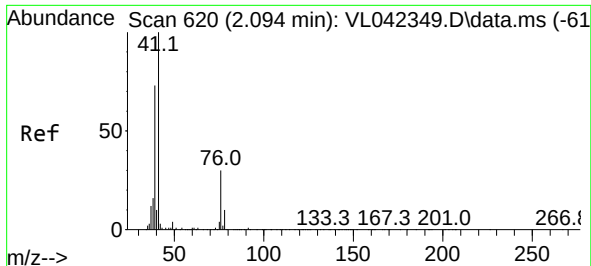
Tgt Ion: 45 Resp: 96365
Ion Ratio Lower Upper
45 100
58 46.1 34.5 51.7



#20
Methylene Chloride
Concen: 8.101 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 84 Resp: 59203
Ion Ratio Lower Upper
84 100
49 155.3 111.6 167.4
51 47.0 35.1 52.7
86 63.8 48.9 73.3

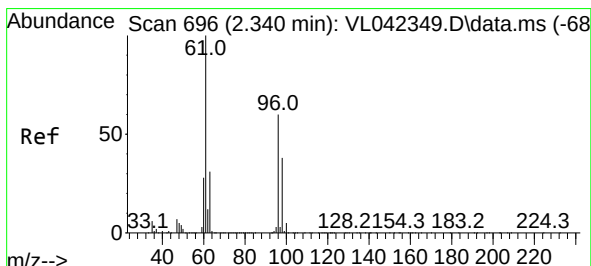
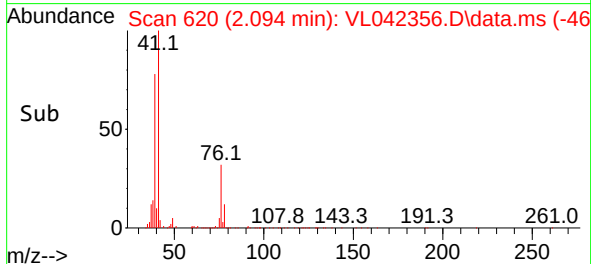
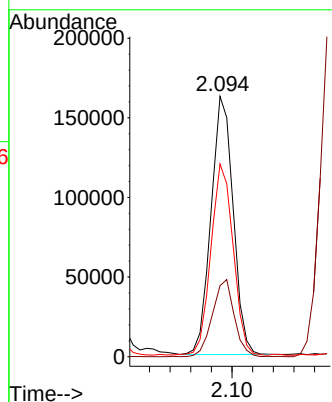
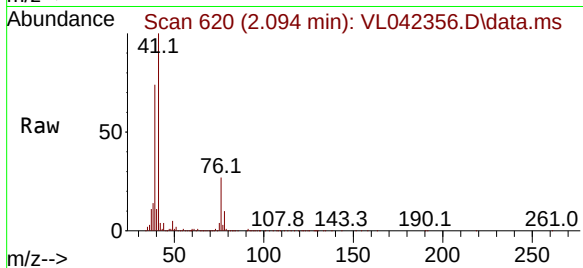




#21
 Allyl Chloride
 Concen: 9.368 ppbv
 RT: 2.094 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

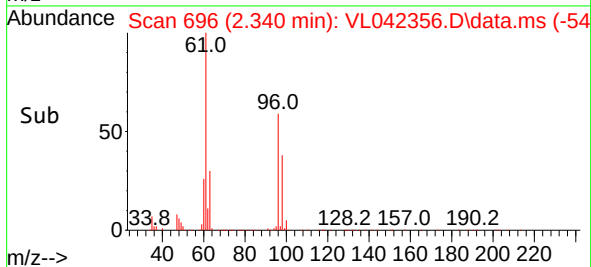
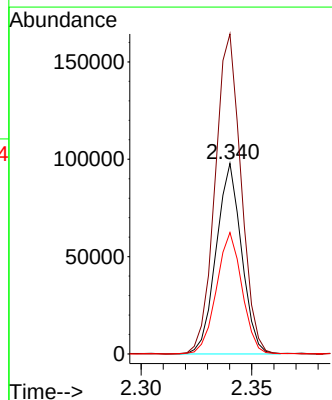
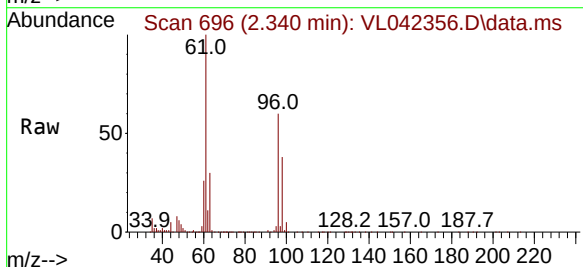
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL041725

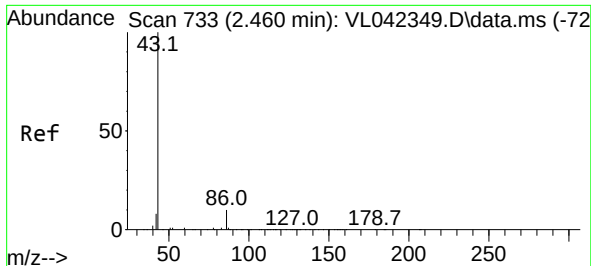
Tgt Ion: 41 Resp: 120704
 Ion Ratio Lower Upper
 41 100
 76 29.5 24.8 37.2
 39 74.5 60.6 90.8



#22
 trans-1,2-Dichloroethene
 Concen: 9.373 ppbv
 RT: 2.340 min Scan# 696
 Delta R.T. -0.000 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

Tgt Ion: 96 Resp: 78070
 Ion Ratio Lower Upper
 96 100
 61 167.7 133.7 200.5
 98 63.5 50.3 75.5



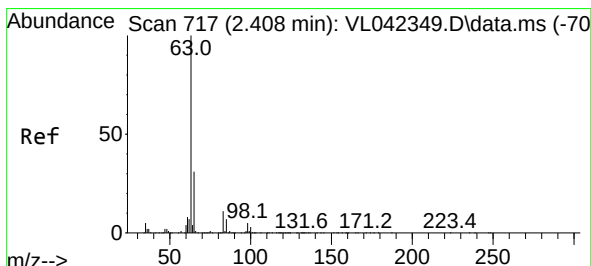
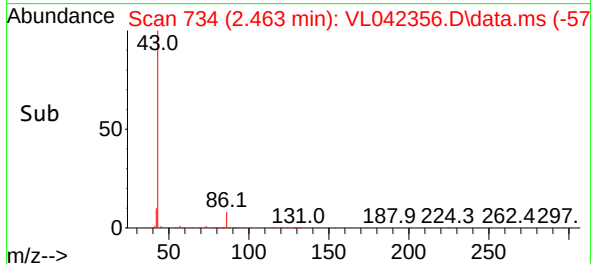
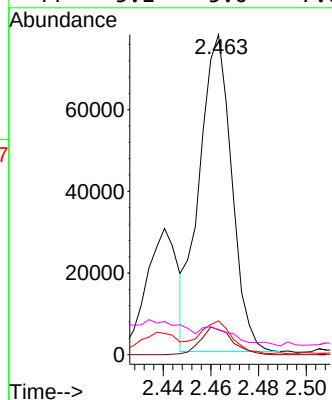
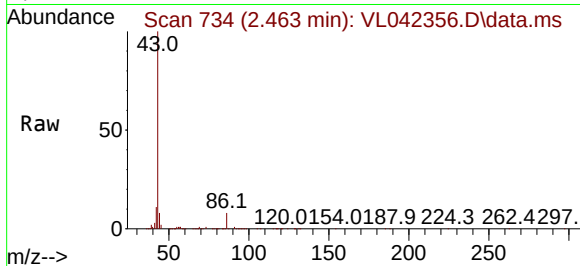


#23
 Vinyl Acetate
 Concen: 9.714 ppbv
 RT: 2.463 min Scan# 714
 Delta R.T. 0.003 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

Instrument :
 MSVOA_1
 ClientSampleId :
 ICVVL041725

Tgt Ion: 43 Resp: 73373

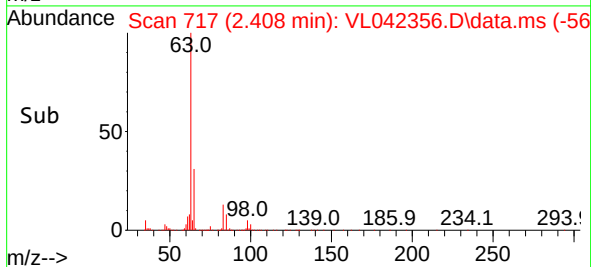
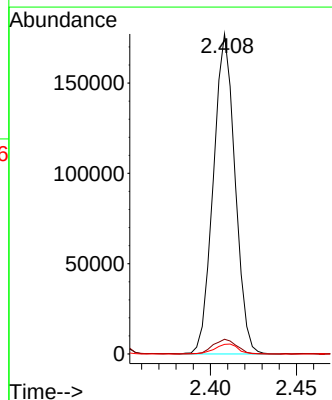
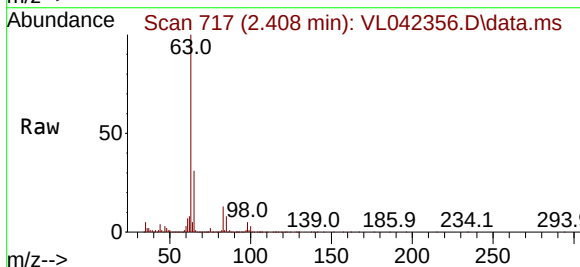
Ion	Ratio	Lower	Upper
43	100		
86	8.0	6.5	9.7
42	10.0	7.8	11.8
44	5.1	5.0	7.6

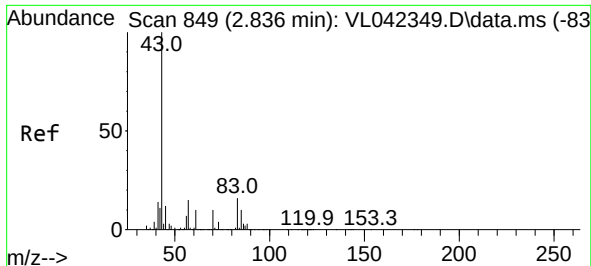


#24
 1,1-Dichloroethane
 Concen: 9.832 ppbv
 RT: 2.408 min Scan# 717
 Delta R.T. -0.000 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

Tgt Ion: 63 Resp: 155571

Ion	Ratio	Lower	Upper
63	100		
98	4.6	2.3	6.8
100	3.0	1.6	4.8



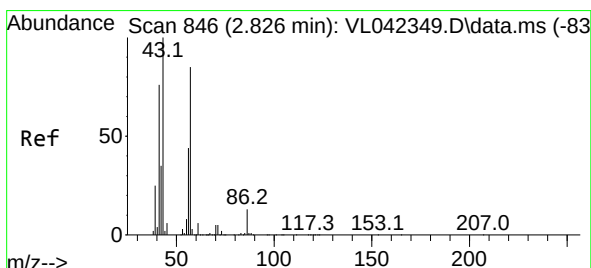
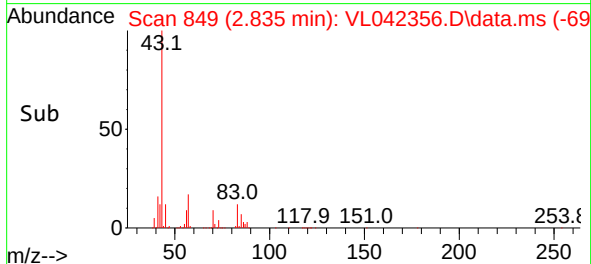
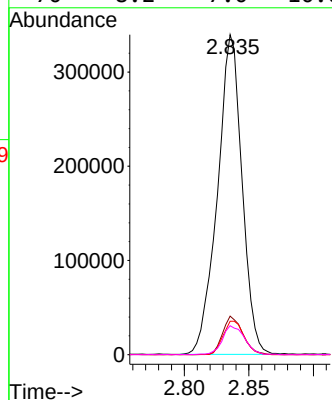
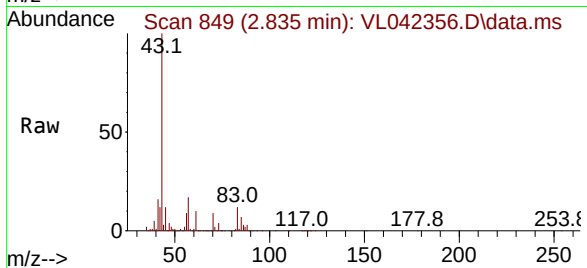


#25
Ethyl Acetate
Concen: 9.759 ppbv
RT: 2.835 min Scan# 849
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Tgt Ion: 43 Resp: 449014

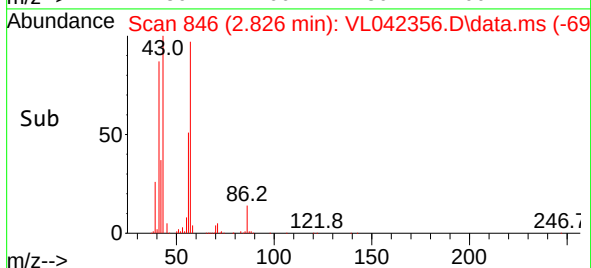
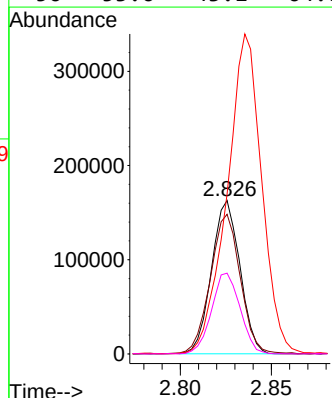
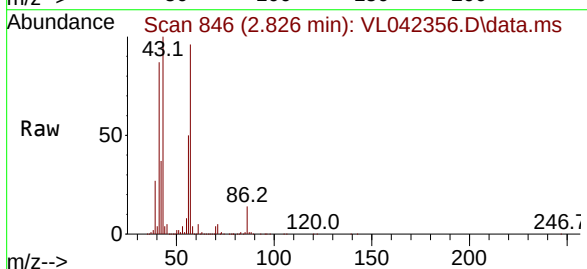
Ion	Ratio	Lower	Upper
43	100		
45	9.9	8.3	12.5
61	9.0	7.3	10.9
70	8.2	7.0	10.6

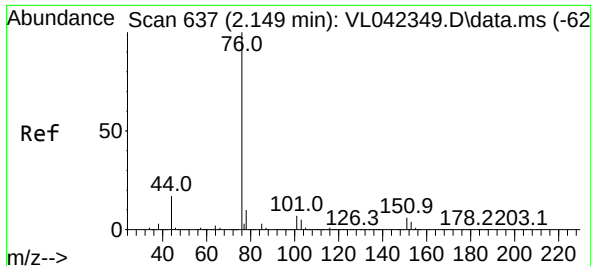


#26
Hexane
Concen: 9.439 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 57 Resp: 175752

Ion	Ratio	Lower	Upper
57	100		
41	96.6	77.9	116.9
43	256.0	208.4	312.6
56	53.6	43.1	64.7





#27

Carbon Disulfide

Concen: 9.587 ppbv

RT: 2.149 min Scan# 61

Delta R.T. -0.000 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

Instrument :

MSVOA_L

ClientSampleId :

ICVVL041725

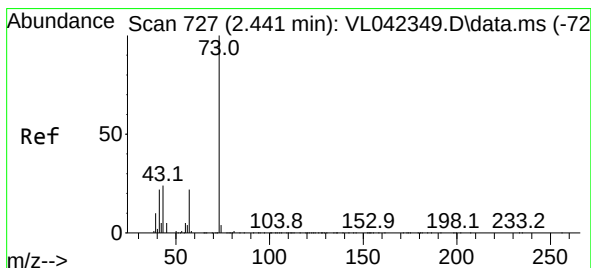
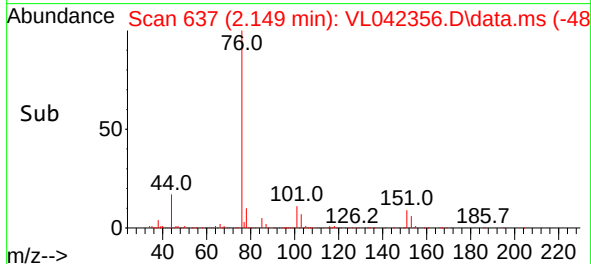
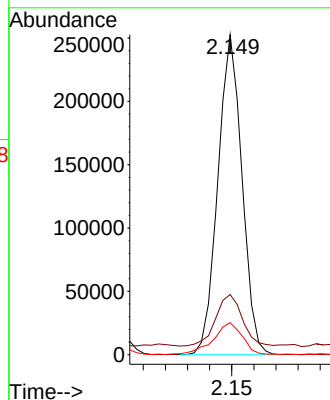
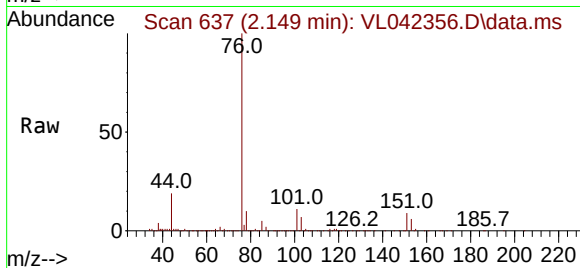
Tgt Ion: 76 Resp: 191117

Ion Ratio Lower Upper

76 100

44 19.3 15.5 23.3

78 11.9 9.3 13.9



#28

Methyl tert-Butyl Ether

Concen: 9.442 ppbv

RT: 2.441 min Scan# 727

Delta R.T. -0.000 min

Lab File: VL042356.D

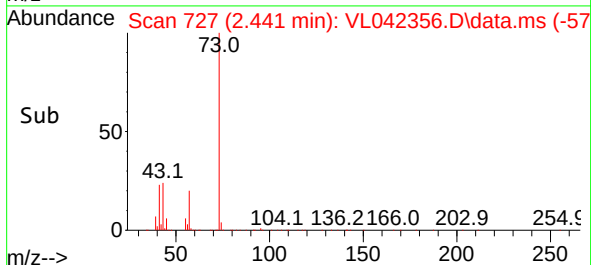
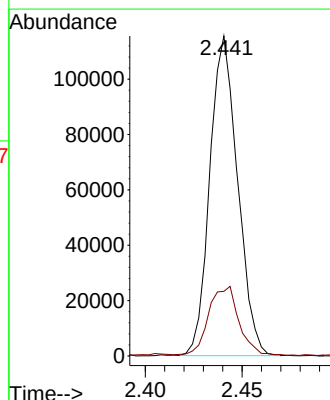
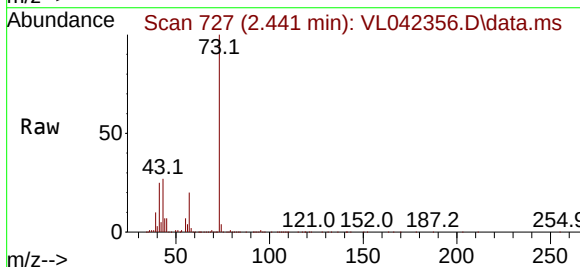
Acq: 17 Apr 2025 13:43

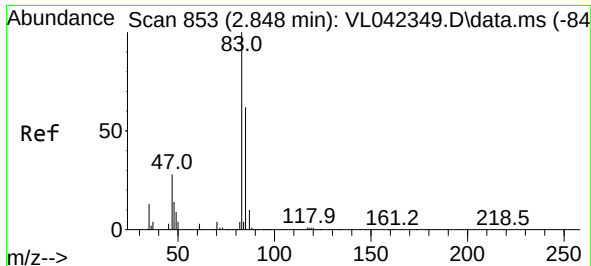
Tgt Ion: 73 Resp: 115190

Ion Ratio Lower Upper

73 100

57 23.4 21.3 31.9





#29

Chloroform

Concen: 9.912 ppbv

RT: 2.848 min Scan# 853

Delta R.T. -0.000 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

Instrument :

MSVOA_L

ClientSampleId :

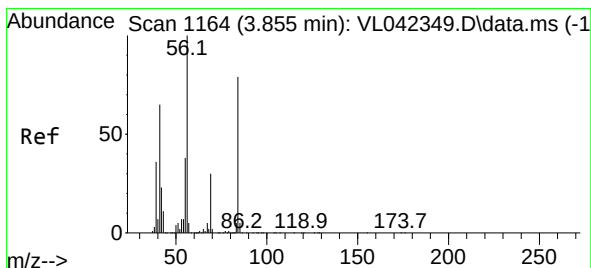
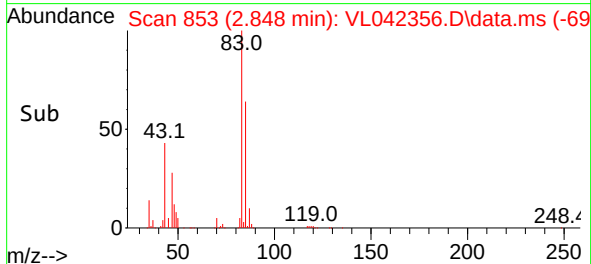
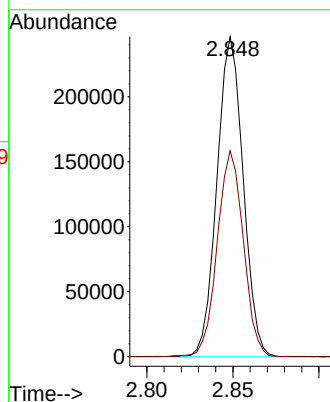
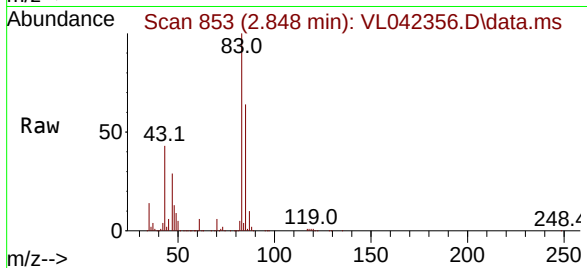
ICVVL041725

Tgt Ion: 83 Resp: 260855

Ion Ratio Lower Upper

83 100

85 64.3 50.0 75.0



#30

Cyclohexane

Concen: 9.849 ppbv

RT: 3.855 min Scan# 1164

Delta R.T. -0.000 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

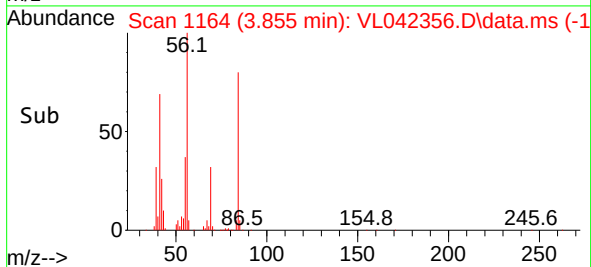
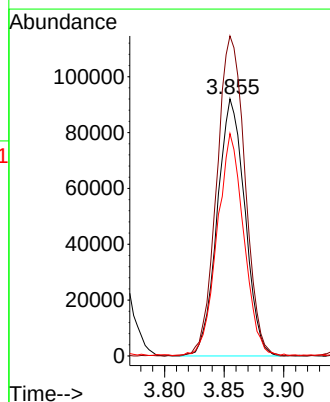
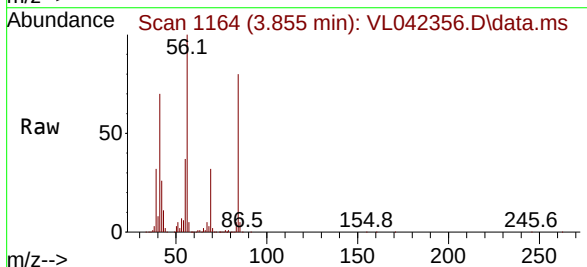
Tgt Ion: 84 Resp: 148246

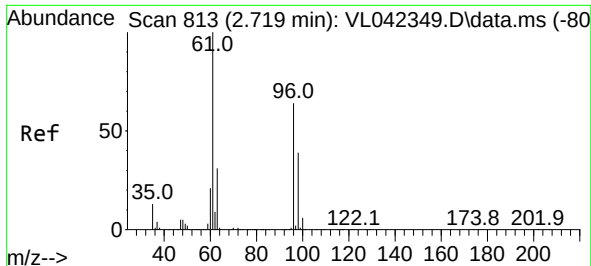
Ion Ratio Lower Upper

84 100

56 127.7 101.0 151.4

41 83.2 67.4 101.0

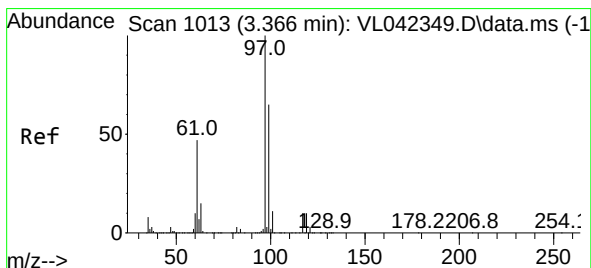
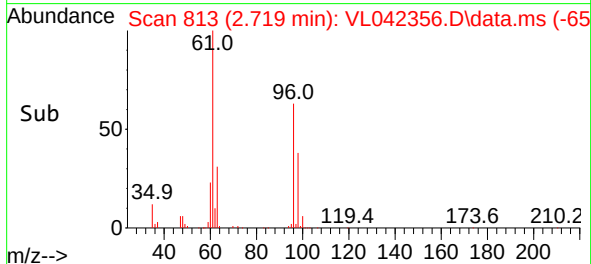
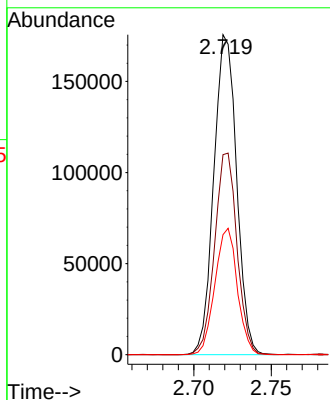
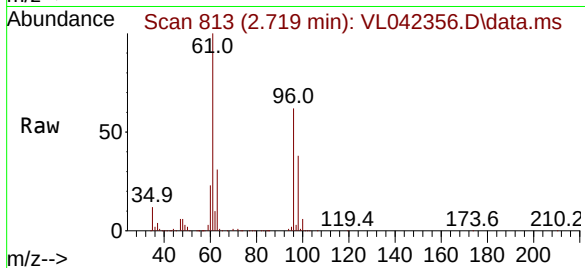




#31
 cis-1,2-Dichloroethene
 Concen: 10.167 ppbv
 RT: 2.719 min Scan# 813
 Delta R.T. -0.000 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

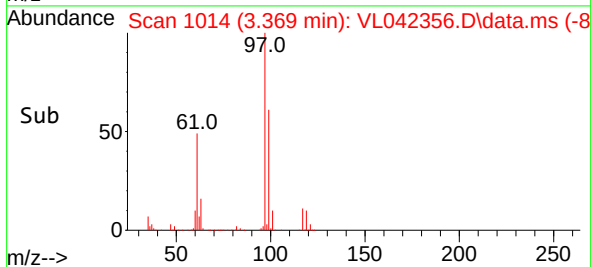
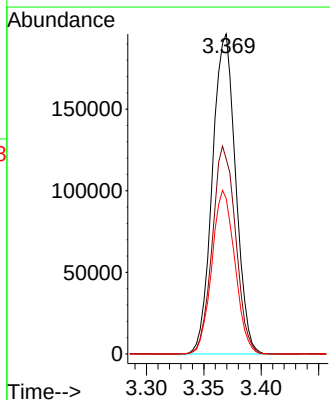
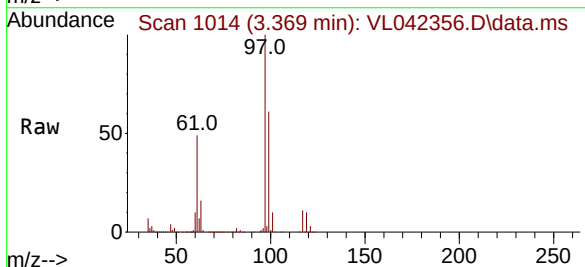
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL041725

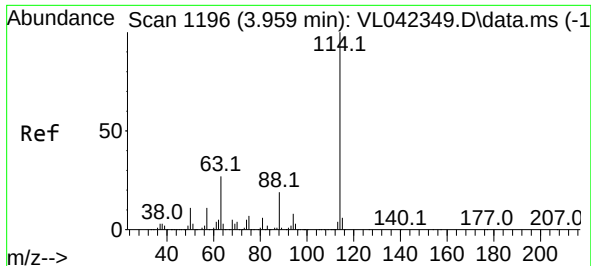
Tgt Ion: 61 Resp: 179993
 Ion Ratio Lower Upper
 61 100
 96 62.5 50.8 76.2
 98 37.5 30.9 46.3



#32
 1,1,1-Trichloroethane
 Concen: 9.336 ppbv
 RT: 3.369 min Scan# 1014
 Delta R.T. 0.003 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

Tgt Ion: 97 Resp: 276599
 Ion Ratio Lower Upper
 97 100
 99 65.0 51.0 76.4
 61 50.7 38.8 58.2

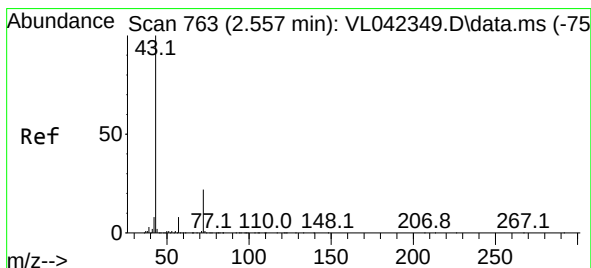
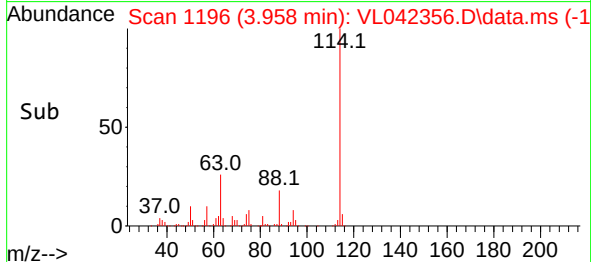
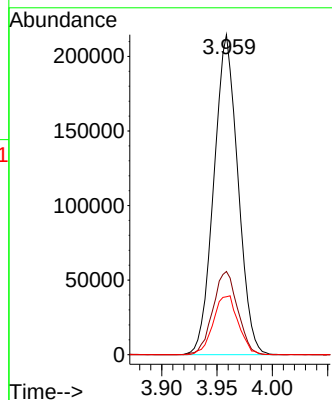
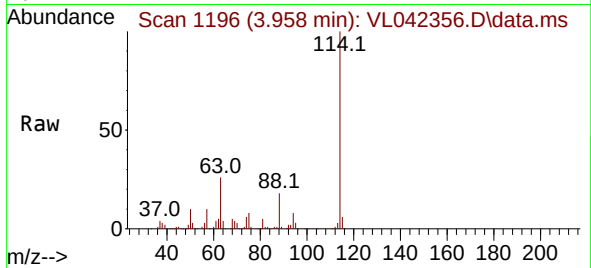




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.958 min Scan# 1196
 Delta R.T. -0.000 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

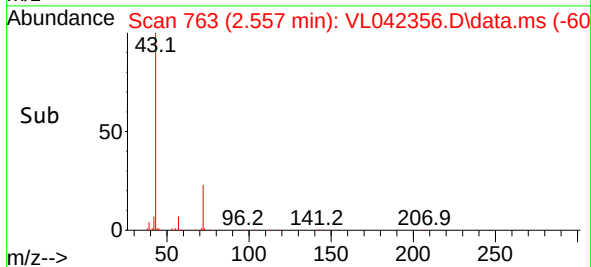
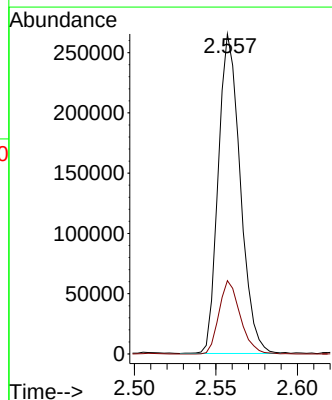
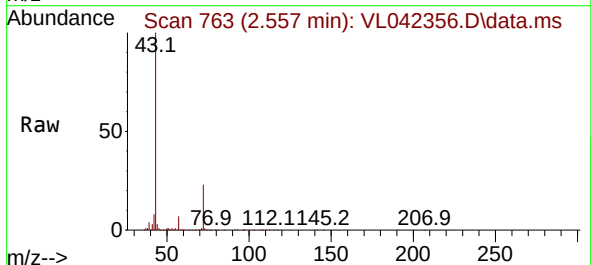
Instrument : MSVOA_1
 ClientSampleId : ICVVL041725

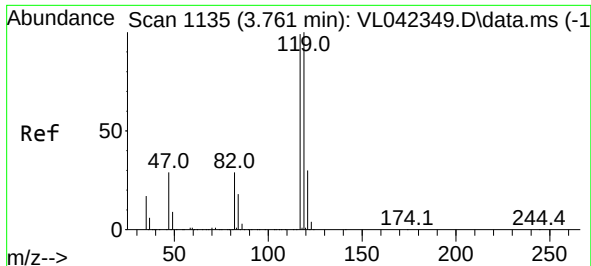
Tgt Ion:114 Resp: 324528
 Ion Ratio Lower Upper
 114 100
 63 26.8 21.8 32.6
 88 19.2 15.5 23.3



#34
 2-Butanone
 Concen: 9.700 ppbv
 RT: 2.557 min Scan# 763
 Delta R.T. -0.000 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

Tgt Ion: 43 Resp: 248969
 Ion Ratio Lower Upper
 43 100
 72 22.1 18.2 27.2

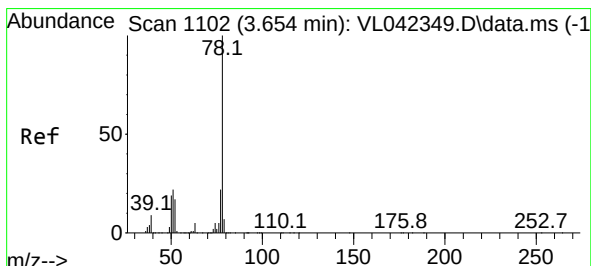
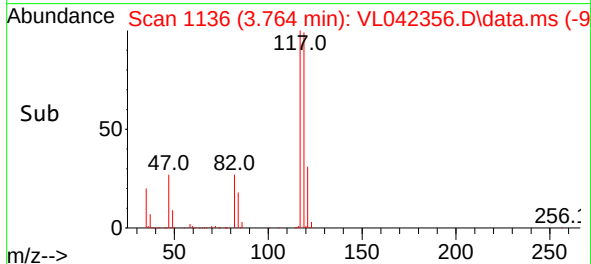
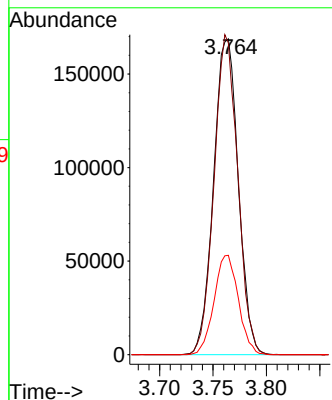
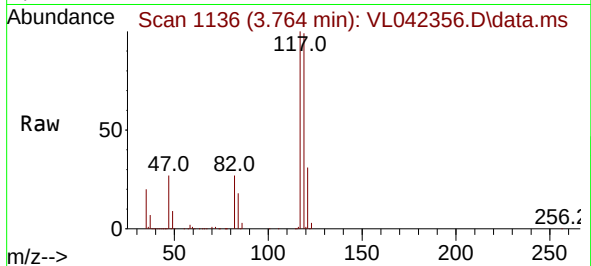




#35
Carbon Tetrachloride
Concen: 9.256 ppbv
RT: 3.764 min Scan# 1135
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

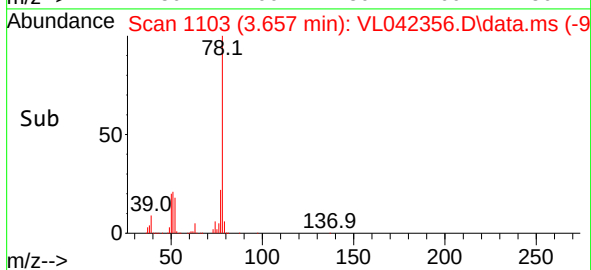
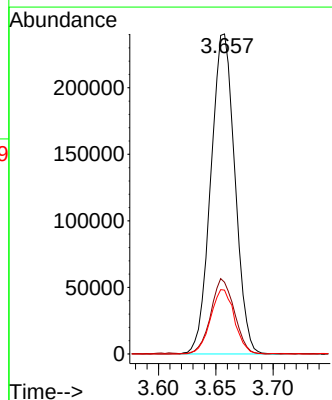
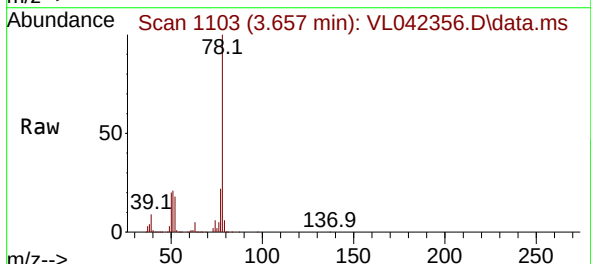
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

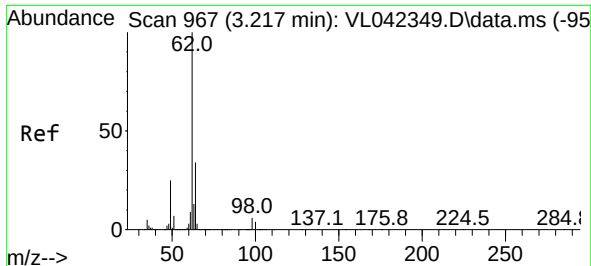
Tgt Ion:117 Resp: 271862
Ion Ratio Lower Upper
117 100
119 98.7 80.5 120.7
121 31.5 24.2 36.2



#36
Benzene
Concen: 10.014 ppbv
RT: 3.657 min Scan# 1103
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 78 Resp: 350545
Ion Ratio Lower Upper
78 100
77 22.3 17.4 26.0
50 19.9 15.5 23.3





#37

1,2-Dichloroethane

Concen: 10.081 ppbv

RT: 3.217 min Scan# 9

Delta R.T. -0.000 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

Instrument :

MSVOA_L

ClientSampleId :

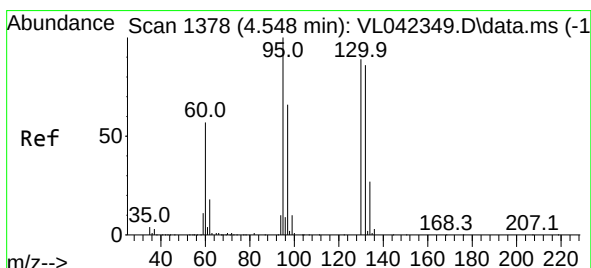
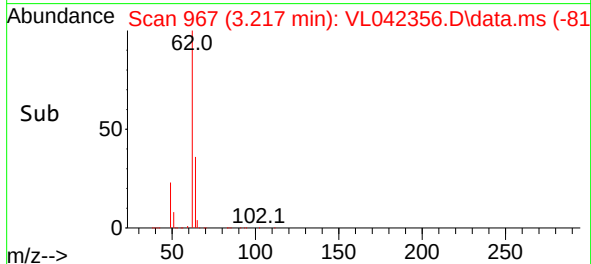
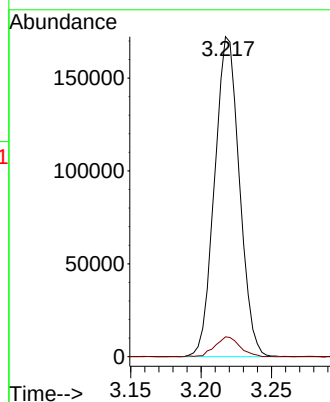
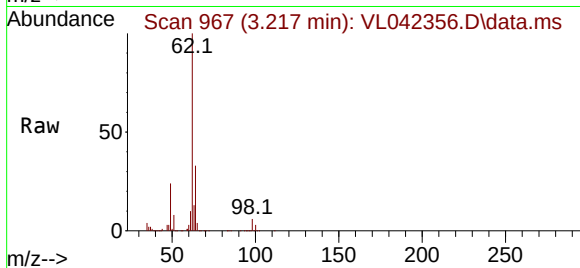
ICVVL041725

Tgt Ion: 62 Resp: 211790

Ion Ratio Lower Upper

62 100

98 6.2 5.1 7.7



#38

Trichloroethene

Concen: 9.143 ppbv

RT: 4.551 min Scan# 1379

Delta R.T. 0.003 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

Tgt Ion:130 Resp: 139872

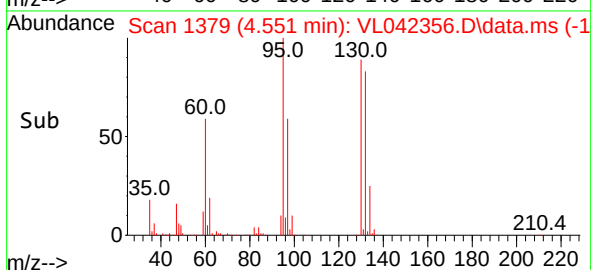
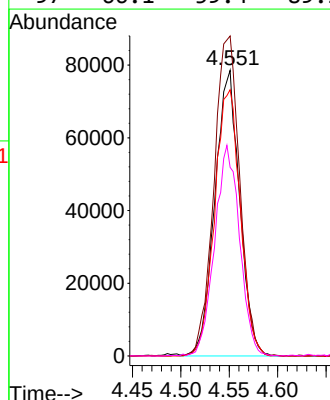
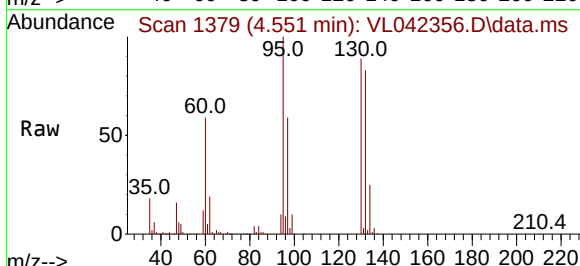
Ion Ratio Lower Upper

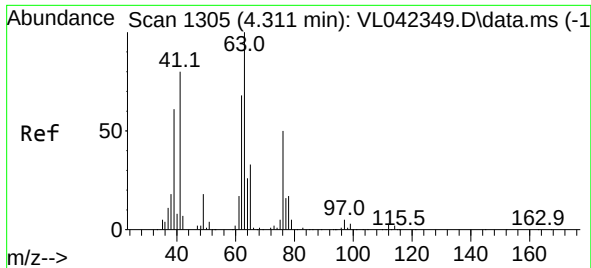
130 100

95 112.0 89.8 134.6

132 93.2 77.7 116.5

97 66.1 59.4 89.2





#39

1,2-Dichloropropane

Concen: 9.908 ppbv

RT: 4.315 min Scan# 1

Delta R.T. 0.003 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

Instrument :

MSVOA_L

ClientSampleId :

ICVVL041725

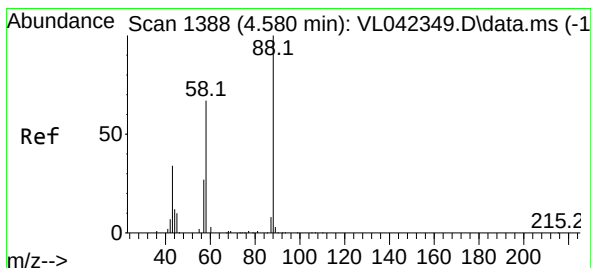
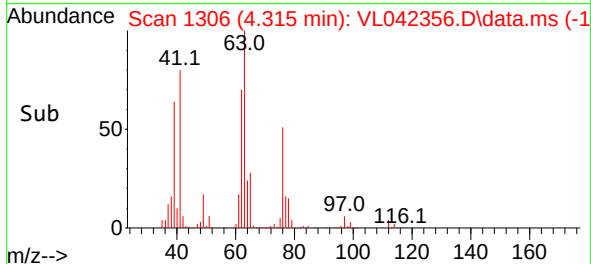
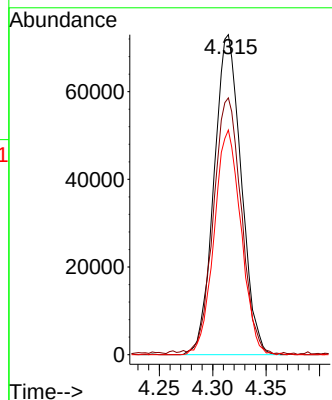
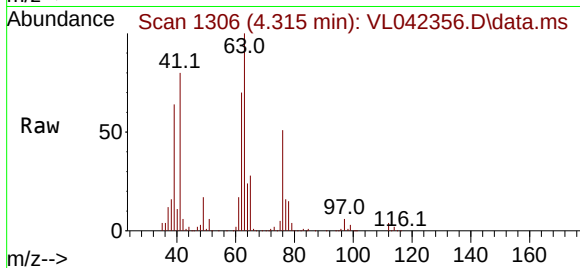
Tgt Ion: 63 Resp: 129239

Ion Ratio Lower Upper

63 100

41 79.9 64.2 96.2

62 70.2 54.3 81.5



#40

1,4-Dioxane

Concen: 8.591 ppbv

RT: 4.583 min Scan# 1389

Delta R.T. 0.003 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

Tgt Ion: 88 Resp: 61587

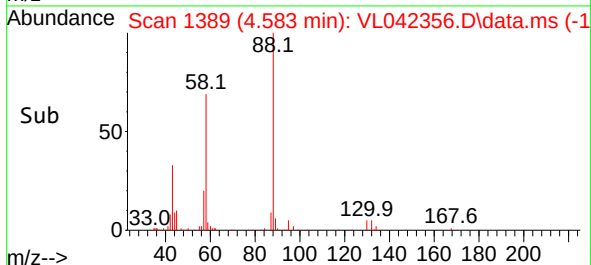
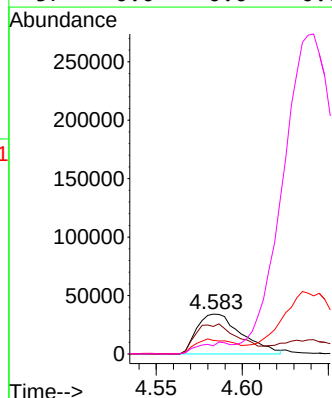
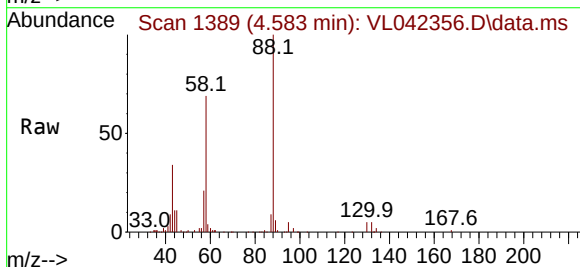
Ion Ratio Lower Upper

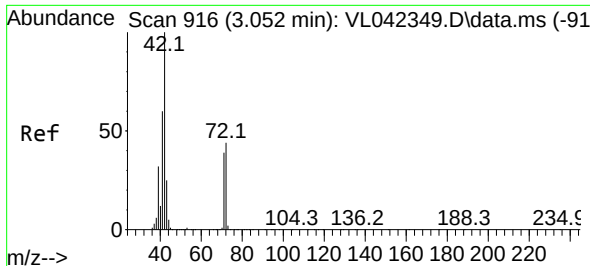
88 100

58 76.1 61.4 92.0

43 35.9 23.2 34.8#

57 0.0 0.0 0.0

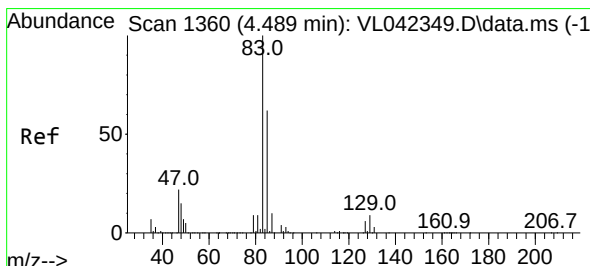
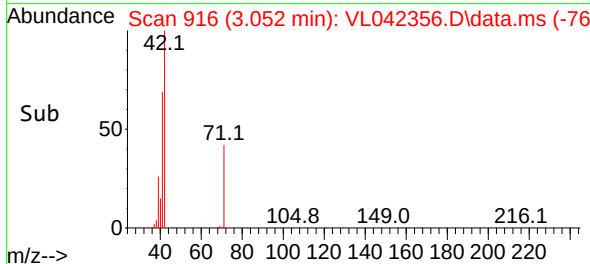
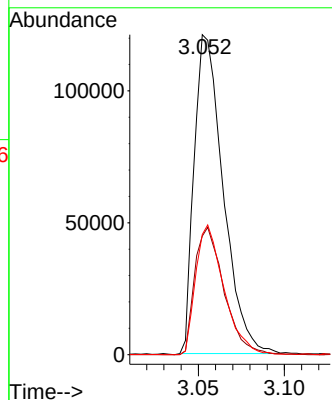
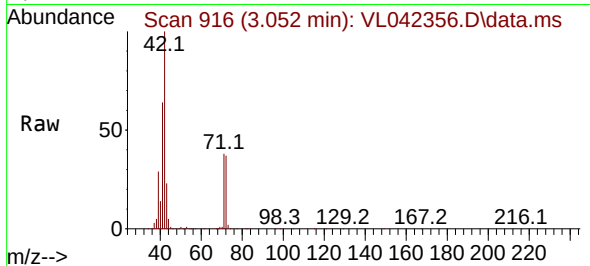




#41
Tetrahydrofuran
Concen: 9.479 ppbv
RT: 3.052 min Scan# 916
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

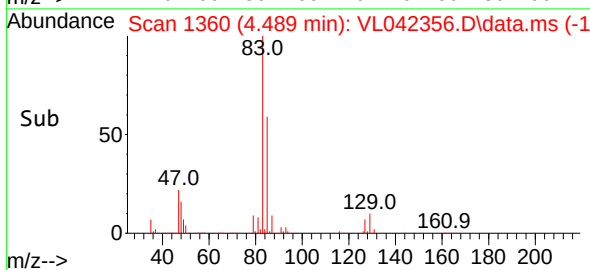
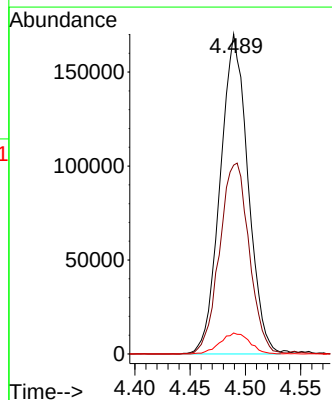
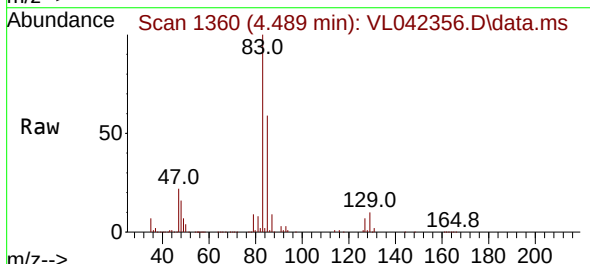
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

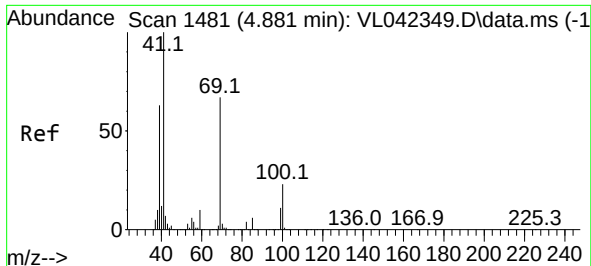
Tgt Ion: 42 Resp: 141861
Ion Ratio Lower Upper
42 100
72 40.2 32.3 48.5
71 39.8 31.4 47.2



#42
Bromodichloromethane
Concen: 10.156 ppbv
RT: 4.489 min Scan# 1360
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 83 Resp: 296946
Ion Ratio Lower Upper
83 100
85 59.0 49.7 74.5
127 6.6 5.1 7.7

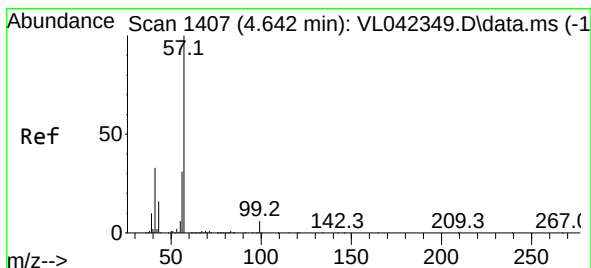
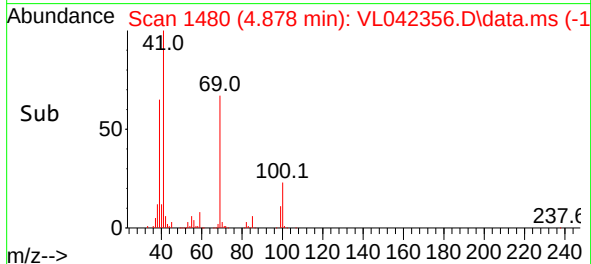
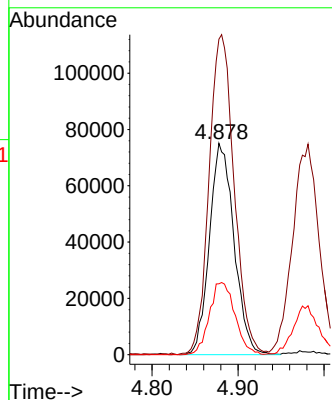
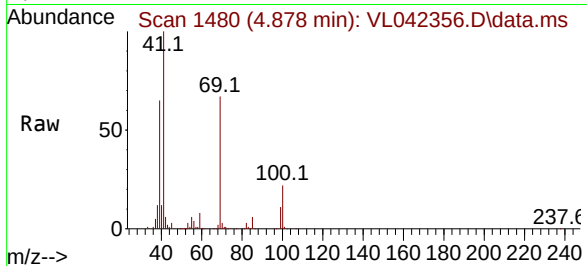




#43
Methyl Methacrylate
Concen: 9.458 ppbv
RT: 4.878 min Scan# 1480
Delta R.T. -0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

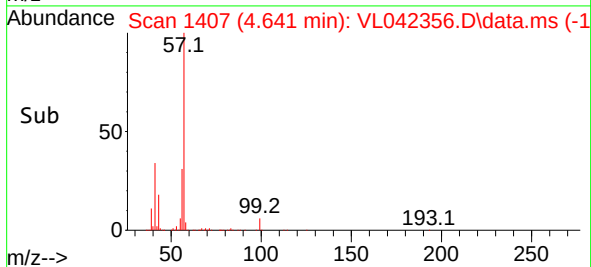
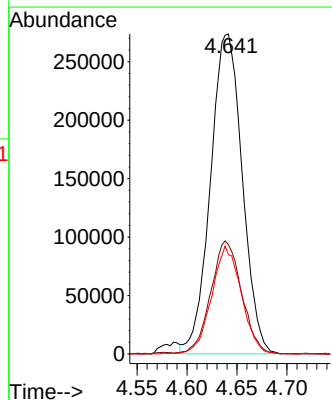
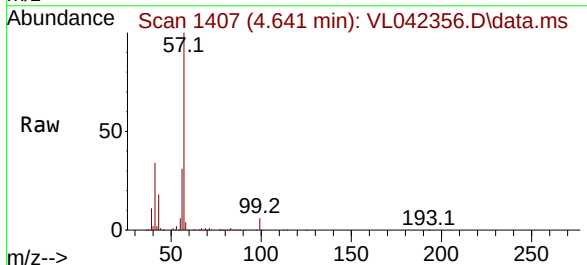
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

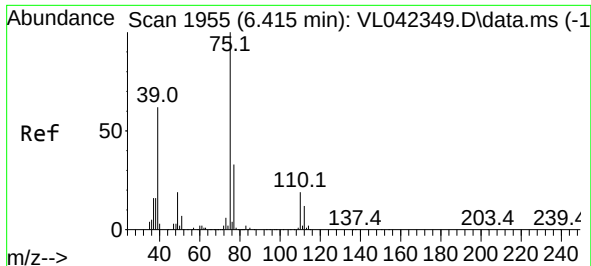
Tgt Ion: 69 Resp: 149209
Ion Ratio Lower Upper
69 100
41 154.1 118.6 177.8
100 35.5 28.2 42.2



#44
2,2,4-Trimethylpentane
Concen: 10.030 ppbv
RT: 4.641 min Scan# 1407
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 57 Resp: 606376
Ion Ratio Lower Upper
57 100
41 34.3 27.2 40.8
56 31.6 25.7 38.5





#45

t-1,3-Dichloropropene

Concen: 9.975 ppbv

RT: 6.412 min Scan# 1955

Delta R.T. -0.003 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

Instrument :

MSVOA_L

ClientSampleId :

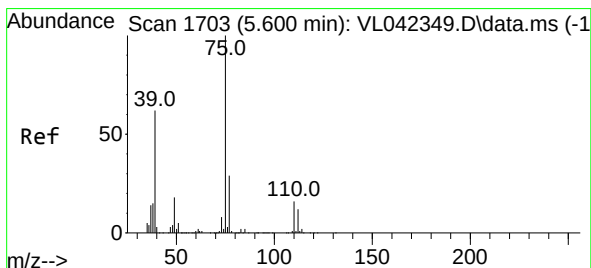
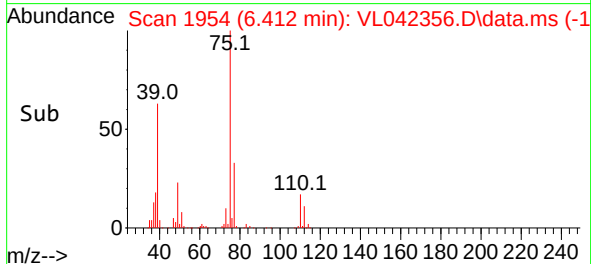
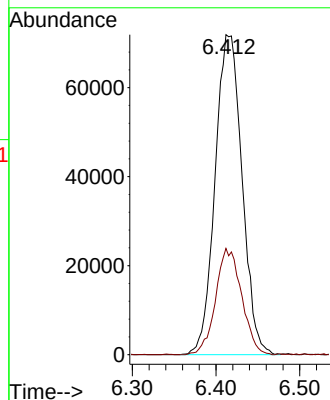
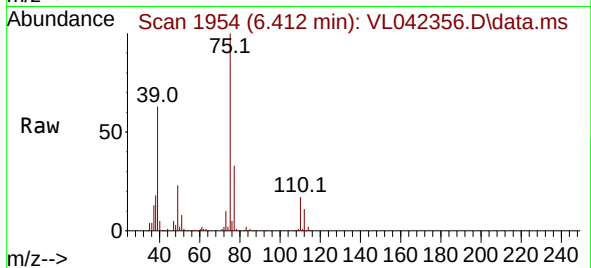
ICVVL041725

Tgt Ion: 75 Resp: 160750

Ion Ratio Lower Upper

75 100

77 33.2 27.0 40.6



#46

cis-1,3-Dichloropropene

Concen: 10.148 ppbv

RT: 5.599 min Scan# 1703

Delta R.T. -0.000 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

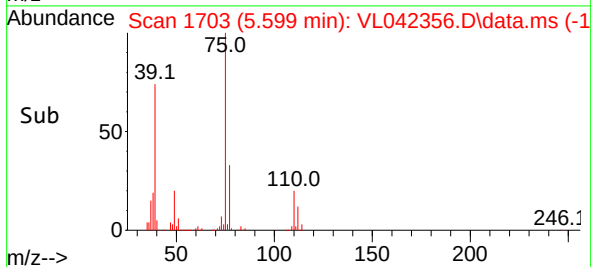
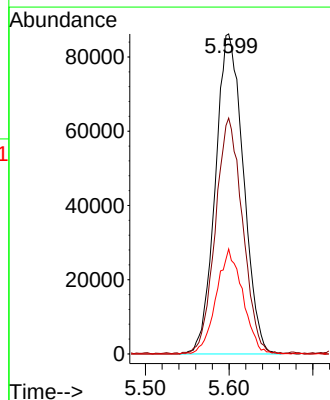
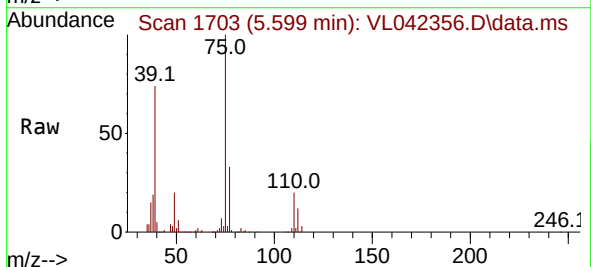
Tgt Ion: 75 Resp: 200144

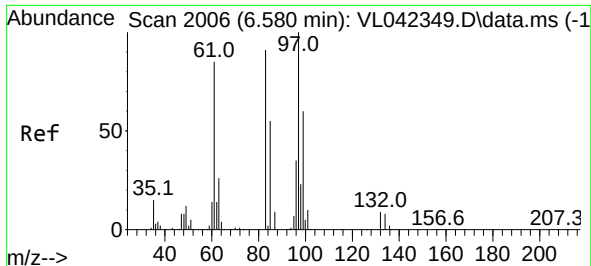
Ion Ratio Lower Upper

75 100

39 73.7 50.0 75.0

77 32.7 23.0 34.6

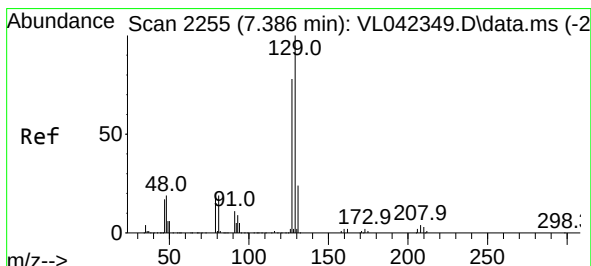
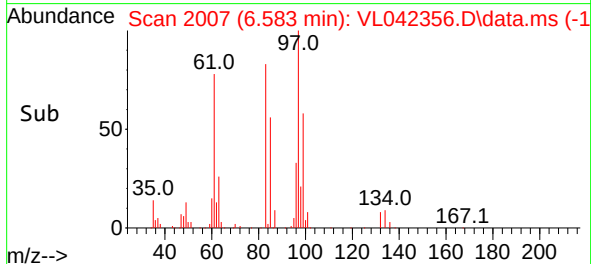
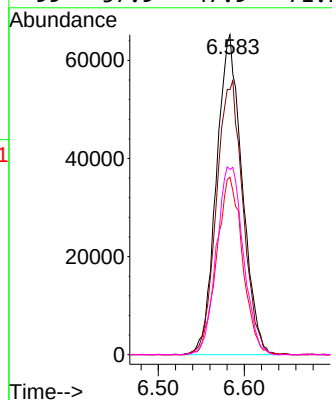
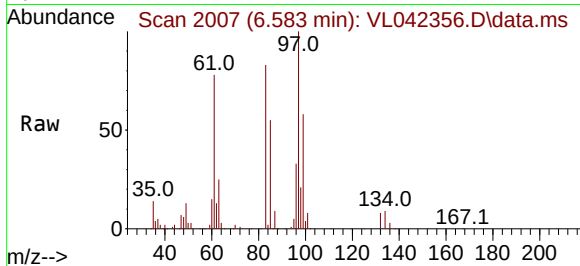




#47
1,1,2-Trichloroethane
Concen: 10.202 ppbv
RT: 6.583 min Scan# 20
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

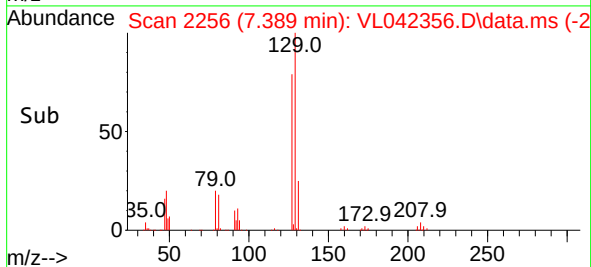
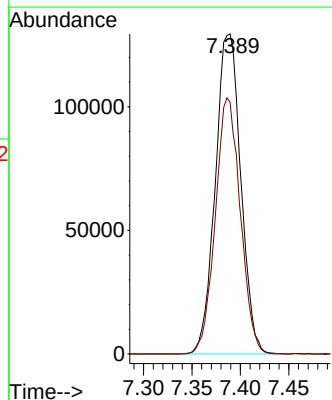
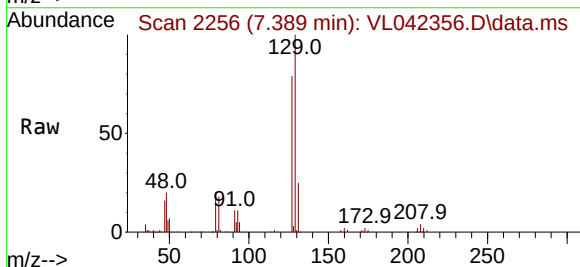
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

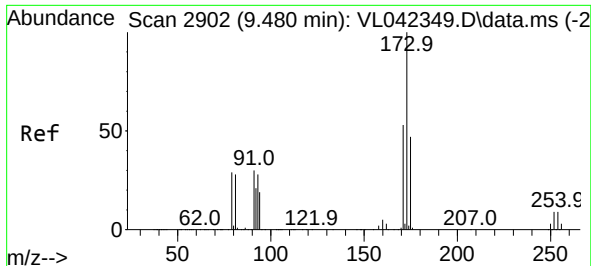
Tgt Ion:	97	Resp:	135575
Ion	Ratio	Lower	Upper
97	100		
83	82.8	72.8	109.2
85	55.5	44.2	66.4
99	57.9	47.9	71.9



#48
Dibromochloromethane
Concen: 10.103 ppbv
RT: 7.389 min Scan# 2256
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:	129	Resp:	237206
Ion	Ratio	Lower	Upper
129	100		
127	78.4	39.1	117.3

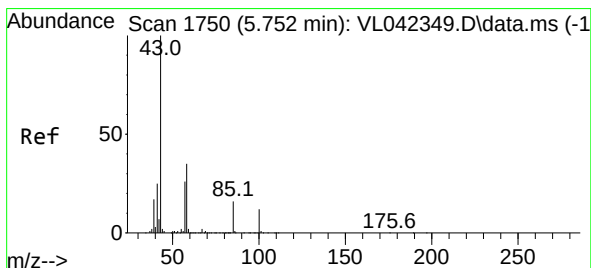
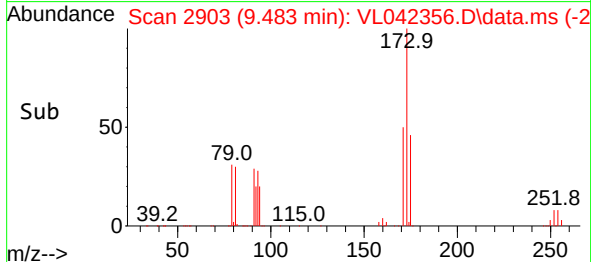
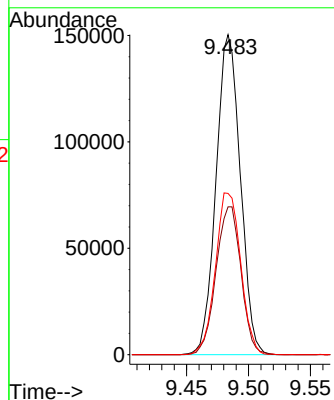
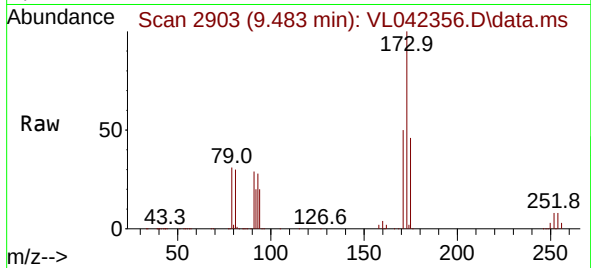




#49
Bromoform
Concen: 10.016 ppbv
RT: 9.483 min Scan# 2903
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

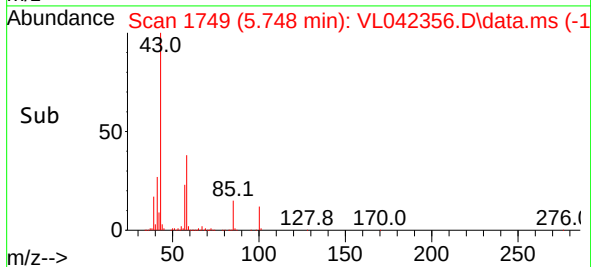
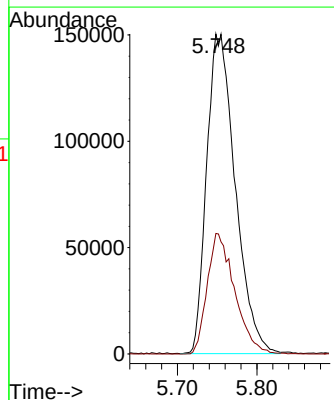
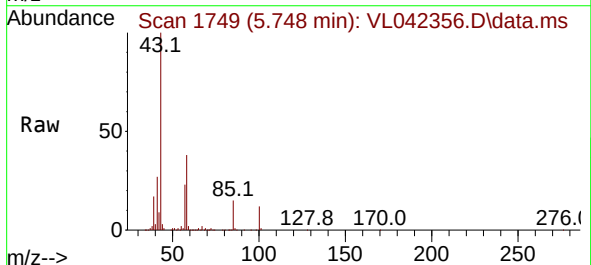
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

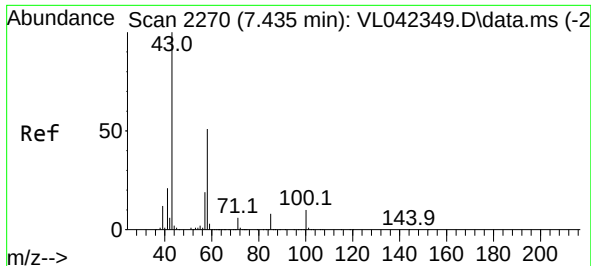
Tgt Ion:173 Resp: 205630
Ion Ratio Lower Upper
173 100
175 47.6 38.2 57.2
171 52.5 40.9 61.3



#50
4-Methyl-2-Pentanone
Concen: 8.819 ppbv
RT: 5.748 min Scan# 1749
Delta R.T. -0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 43 Resp: 376145
Ion Ratio Lower Upper
43 100
58 36.2 28.6 43.0

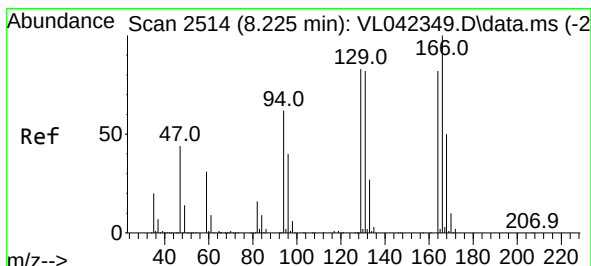
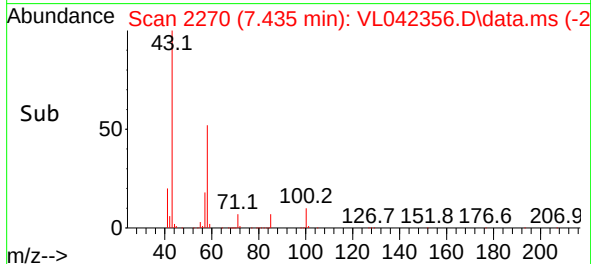
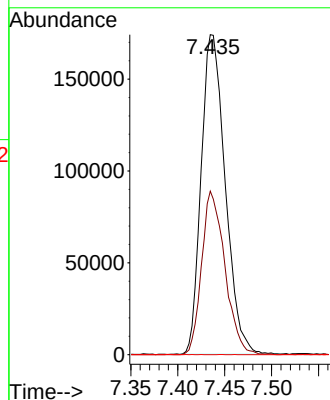
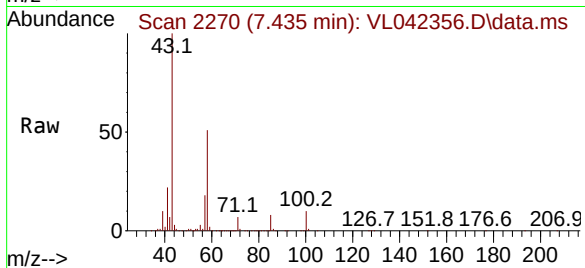




#51
2-Hexanone
Concen: 8.118 ppbv
RT: 7.435 min Scan# 211
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

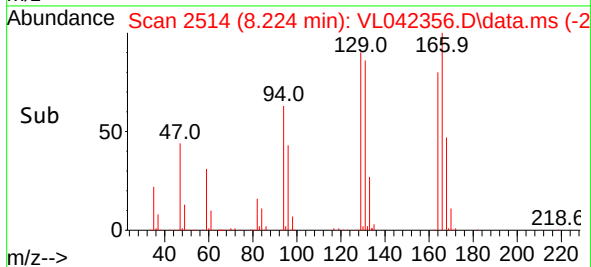
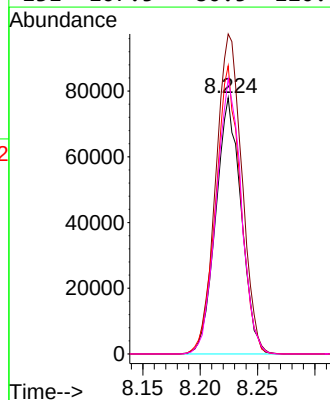
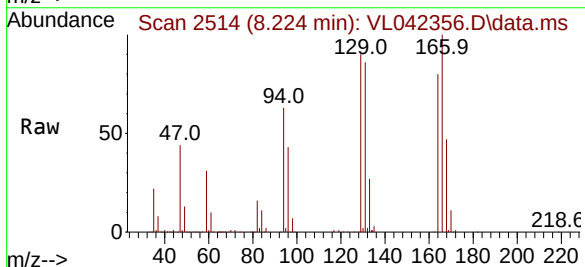
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

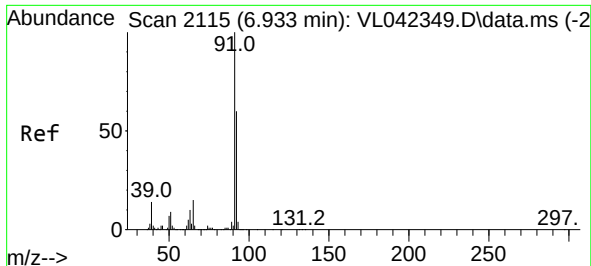
Tgt Ion: 43 Resp: 310521
Ion Ratio Lower Upper
43 100
58 49.3 40.2 60.4
98 0.0 0.1 0.1#



#52
Tetrachloroethene
Concen: 8.827 ppbv
RT: 8.224 min Scan# 2514
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 164 Resp: 119424
Ion Ratio Lower Upper
164 100
166 124.9 98.2 147.2
129 112.5 81.8 122.8
131 107.5 80.5 120.7

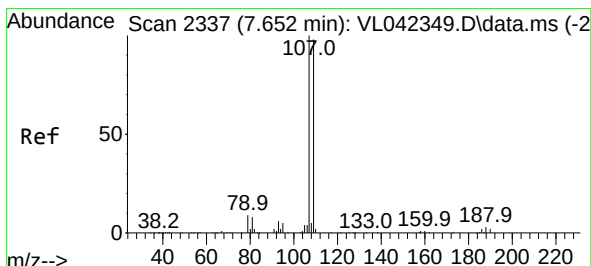
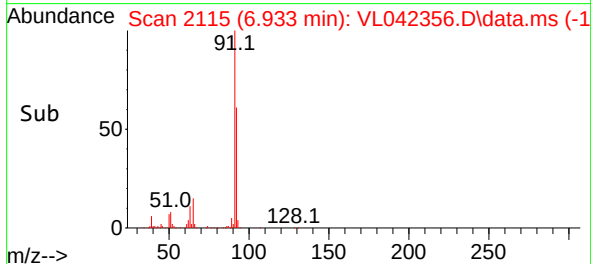
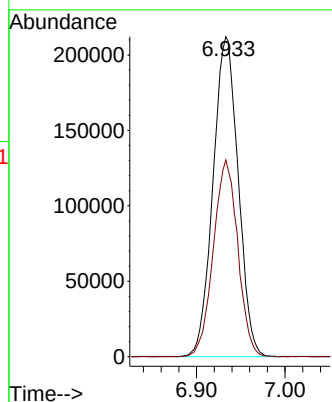
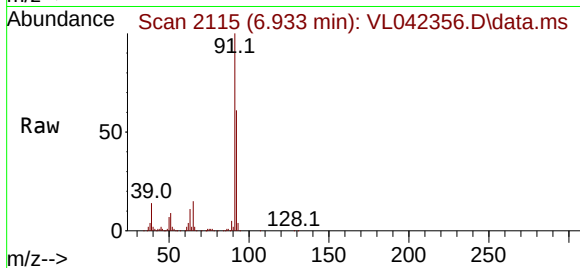




#53
Toluene
Concen: 9.986 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

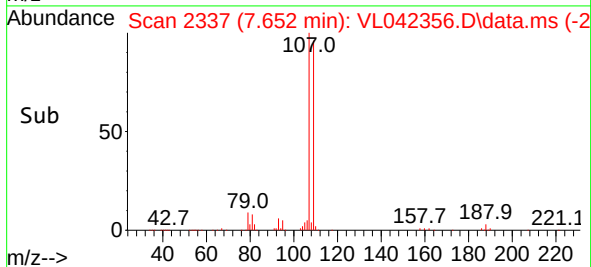
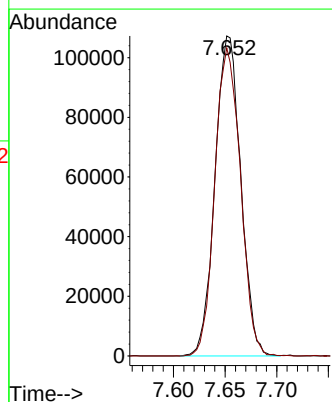
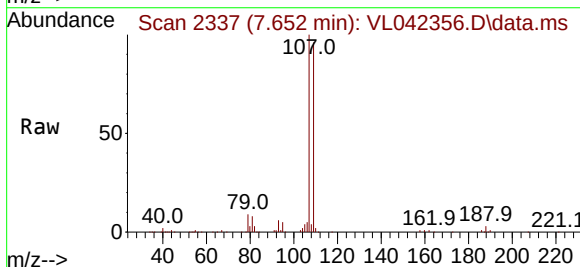
Instrument : MSVOA_L
ClientSampleId : ICVVL041725

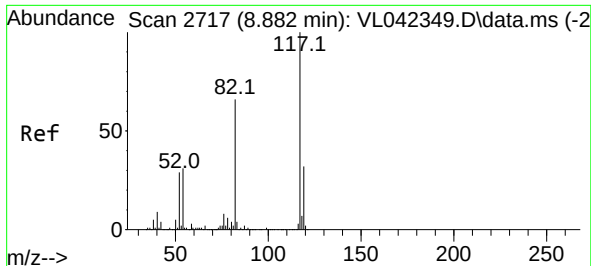
Tgt Ion: 91 Resp: 419462
Ion Ratio Lower Upper
91 100
92 59.6 48.2 72.4



#54
1,2-Dibromoethane
Concen: 9.792 ppbv
RT: 7.652 min Scan# 2337
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

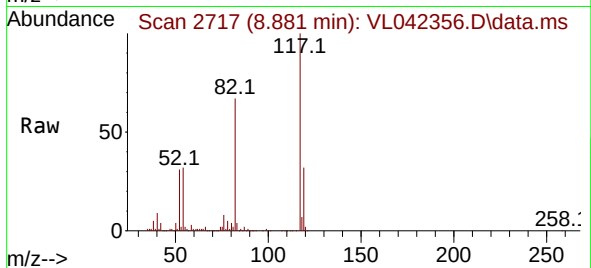
Tgt Ion: 107 Resp: 186231
Ion Ratio Lower Upper
107 100
109 96.3 78.2 117.4



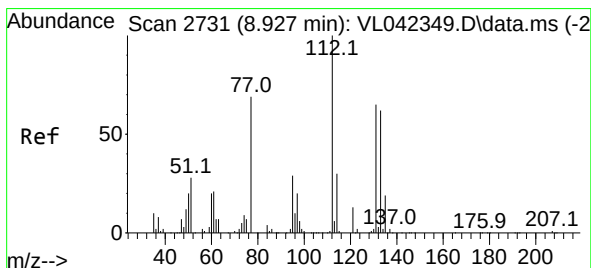
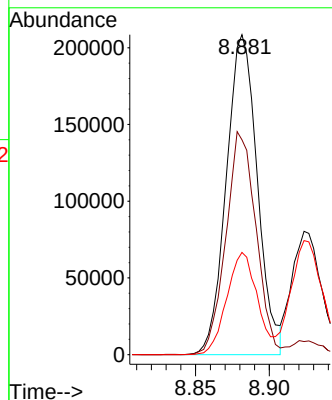
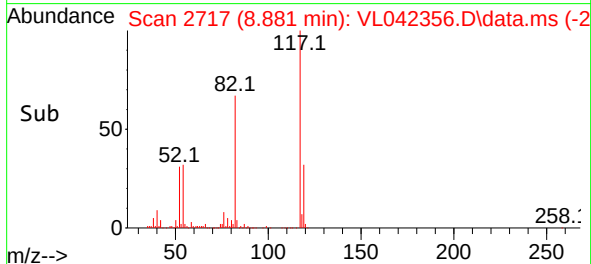


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.881 min Scan# 2717
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

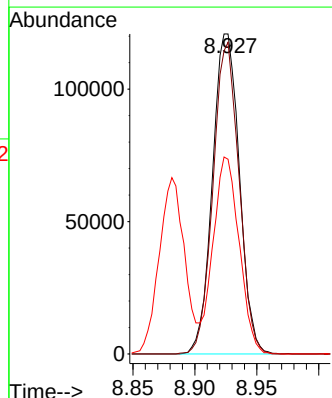
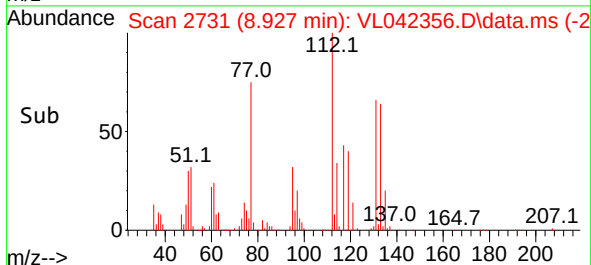
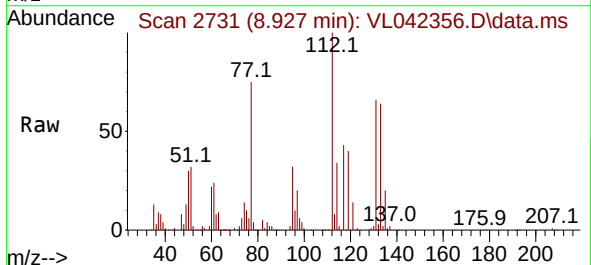


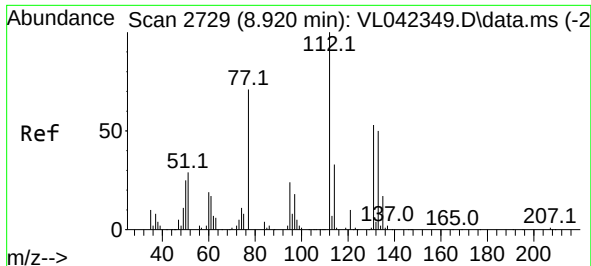
Tgt Ion:117 Resp: 305357
Ion Ratio Lower Upper
117 100
82 68.3 57.8 86.6
119 31.8 25.2 37.8



#56
1,1,1,2-Tetrachloroethane
Concen: 9.886 ppbv
RT: 8.927 min Scan# 2731
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:131 Resp: 182712
Ion Ratio Lower Upper
131 100
133 93.9 78.3 117.5
119 59.4 48.7 73.1

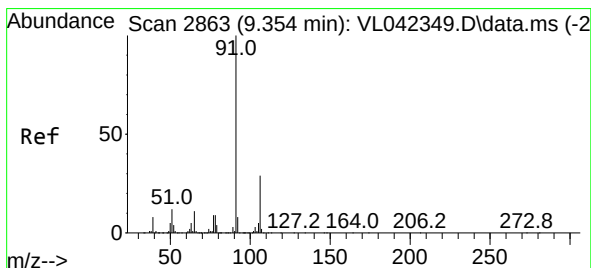
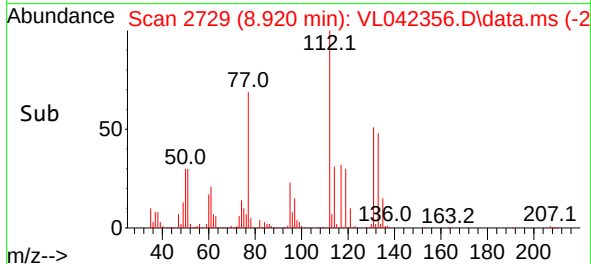
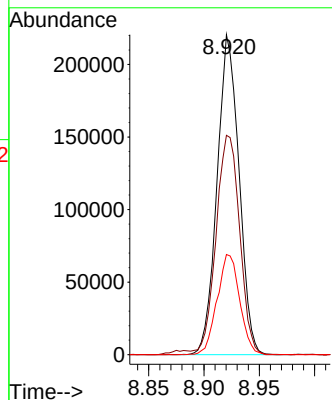
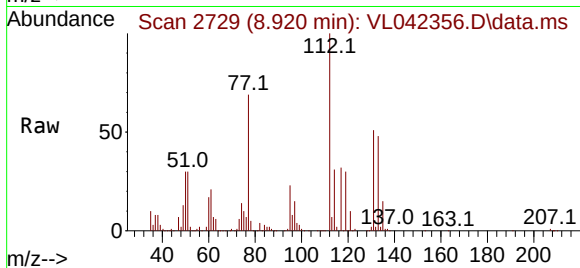




#57
Chlorobenzene
Concen: 9.589 ppbv
RT: 8.920 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

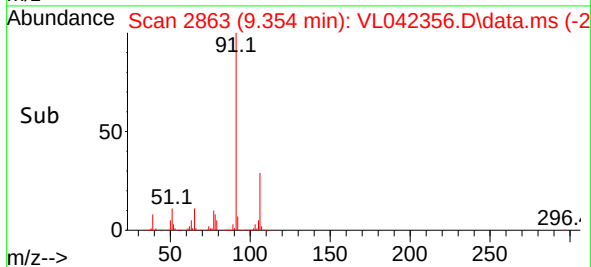
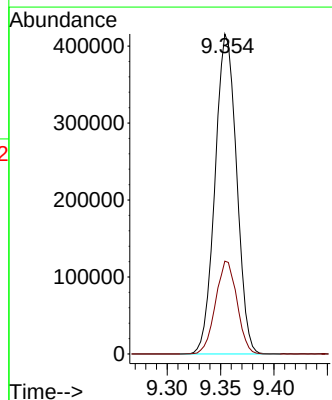
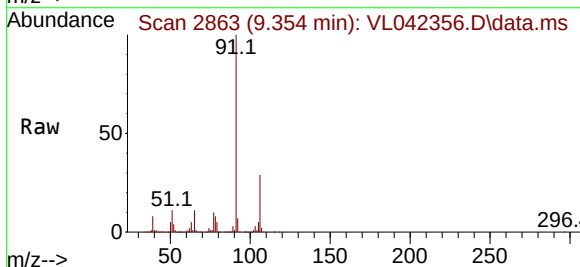
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

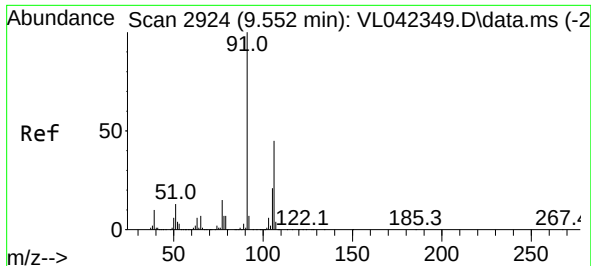
Tgt Ion:112 Resp: 304533
Ion Ratio Lower Upper
112 100
77 68.5 57.8 86.6
114 31.3 29.3 35.9



#58
Ethyl Benzene
Concen: 9.645 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 91 Resp: 583515
Ion Ratio Lower Upper
91 100
106 29.0 23.0 34.4





#59

m/p-Xylene

Concen: 9.084 ppbv

RT: 9.551 min Scan# 2924

Delta R.T. -0.000 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

Instrument :

MSVOA_L

ClientSampleId :

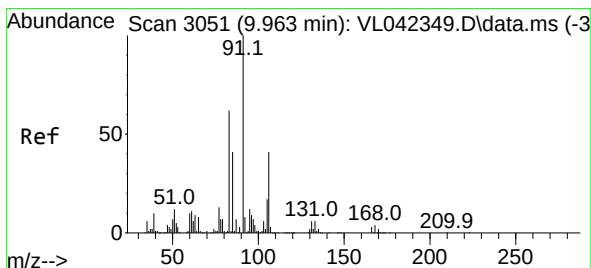
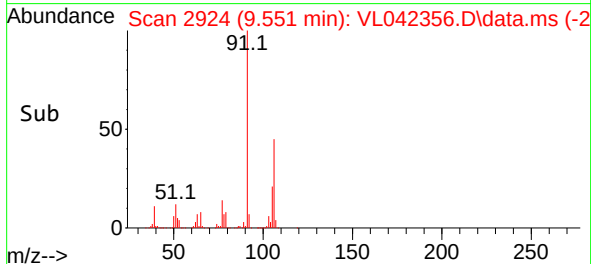
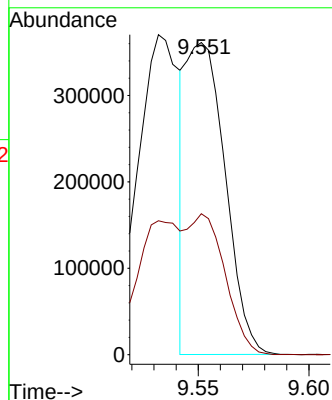
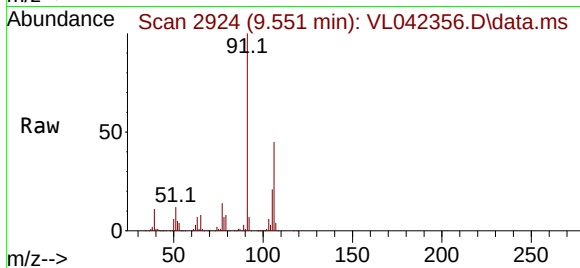
ICVVL041725

Tgt Ion: 91 Resp: 442744

Ion Ratio Lower Upper

91 100

106 92.1 35.4 53.2#



#60

o-Xylene

Concen: 9.465 ppbv

RT: 9.966 min Scan# 3052

Delta R.T. 0.003 min

Lab File: VL042356.D

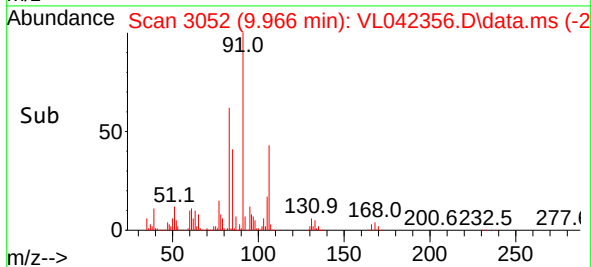
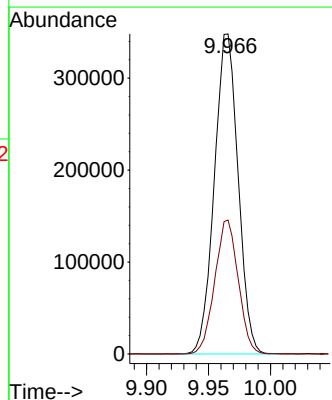
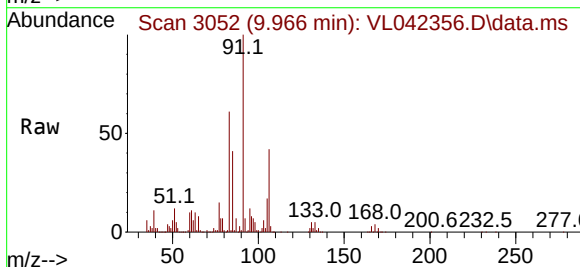
Acq: 17 Apr 2025 13:43

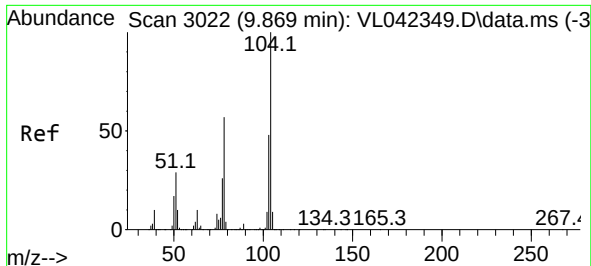
Tgt Ion: 91 Resp: 464522

Ion Ratio Lower Upper

91 100

106 41.4 21.1 63.4





#61

Styrene

Concen: 9.813 ppbv

RT: 9.872 min Scan# 3022

Delta R.T. 0.003 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

Instrument :

MSVOA_L

ClientSampleId :

ICVVL041725

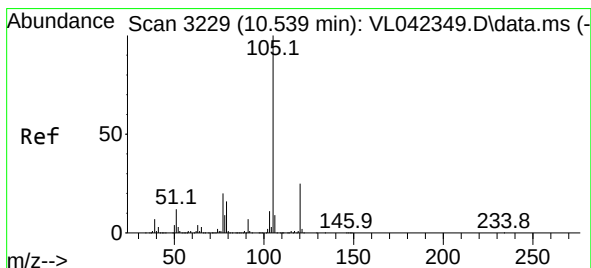
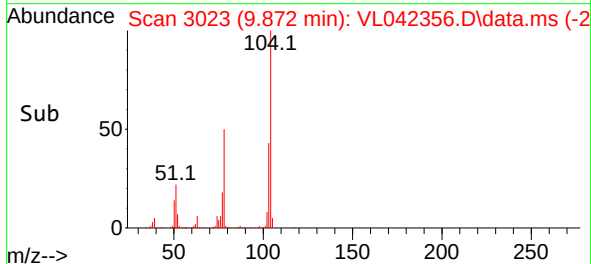
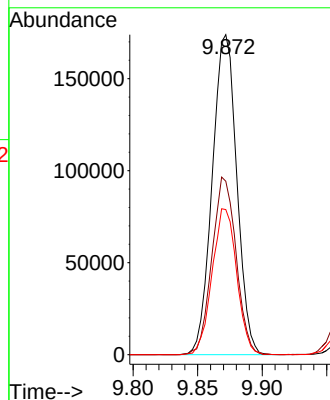
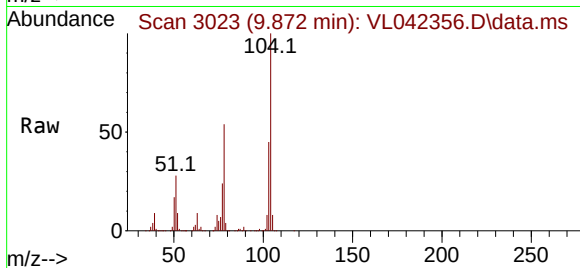
Tgt Ion:104 Resp: 229869

Ion Ratio Lower Upper

104 100

78 54.5 44.6 66.8

103 45.7 37.4 56.0



#62

Isopropylbenzene

Concen: 9.520 ppbv

RT: 10.539 min Scan# 3229

Delta R.T. -0.000 min

Lab File: VL042356.D

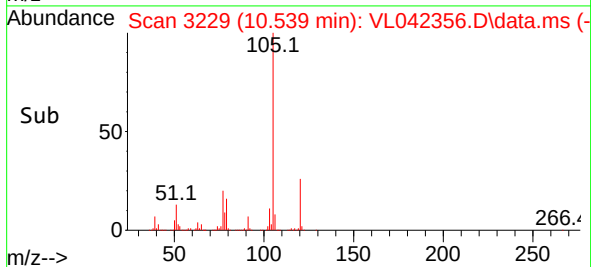
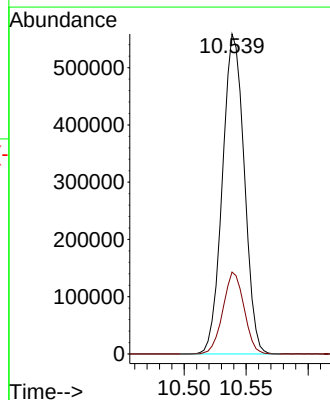
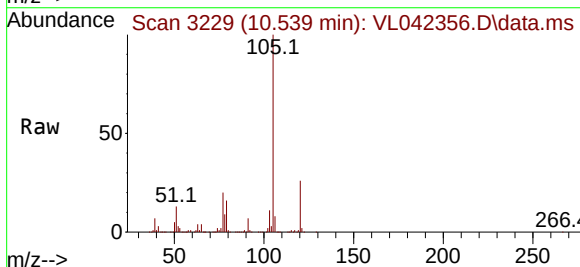
Acq: 17 Apr 2025 13:43

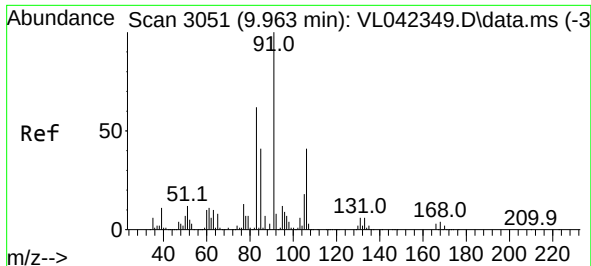
Tgt Ion:105 Resp: 685965

Ion Ratio Lower Upper

105 100

120 24.8 19.8 29.8

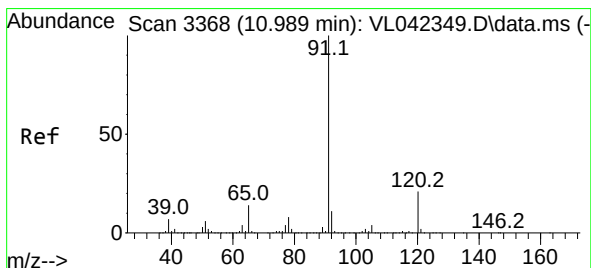
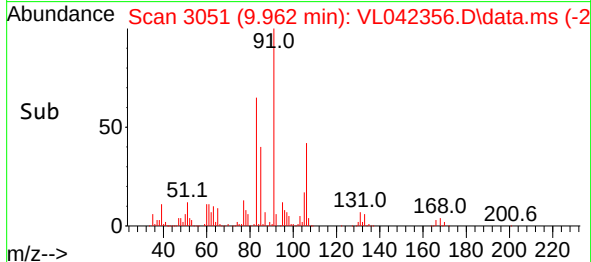
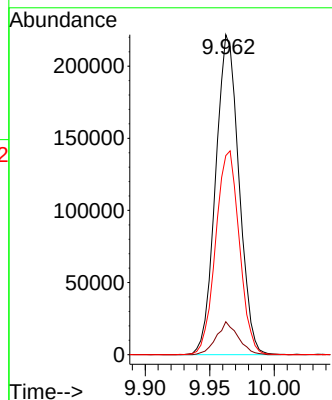
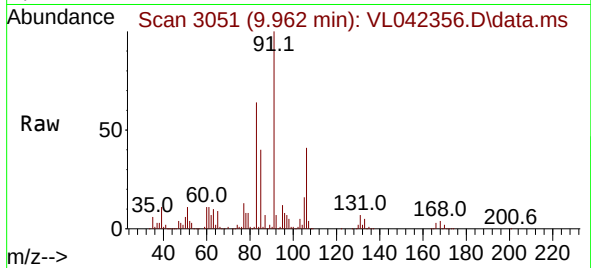




#63
1,1,2,2-Tetrachloroethane
Concen: 8.773 ppbv
RT: 9.962 min Scan# 3051
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

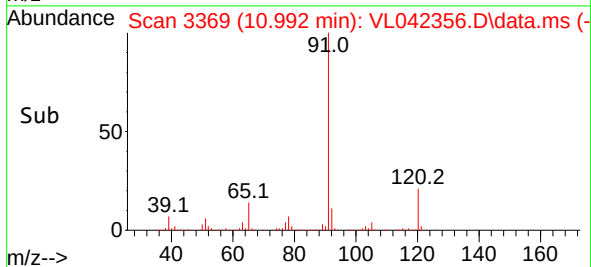
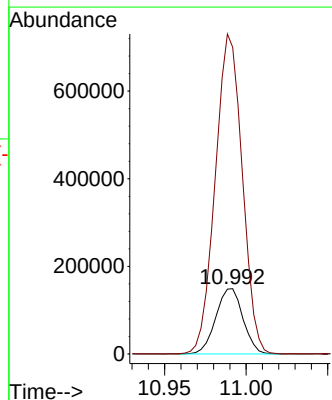
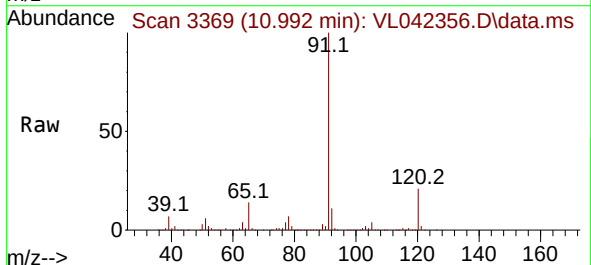
Instrument : MSVOA_1
ClientSampleId : ICVVL041725

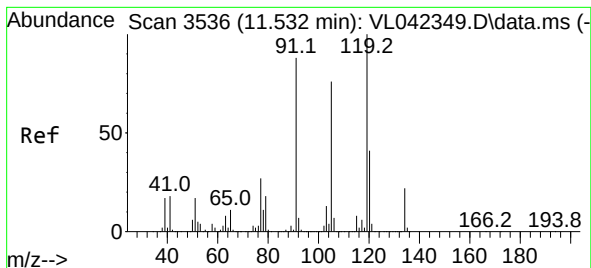
Tgt Ion: 83 Resp: 279007
Ion Ratio Lower Upper
83 100
131 9.6 4.5 13.7
85 64.6 32.4 97.0



#64
n-propylbenzene
Concen: 9.533 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:120 Resp: 172654
Ion Ratio Lower Upper
120 100
91 487.7 392.4 588.6





#65

tert-Butylbenzene

Concen: 9.203 ppbv

RT: 11.532 min Scan# 3536

Delta R.T. -0.000 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

Instrument :

MSVOA_L

ClientSampleId :

ICVVL041725

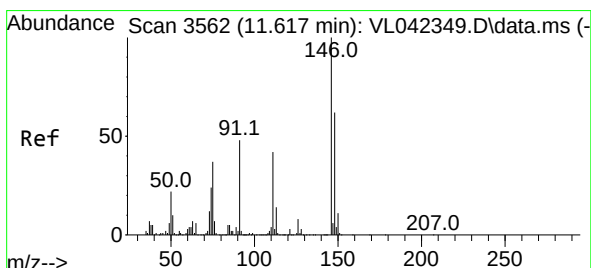
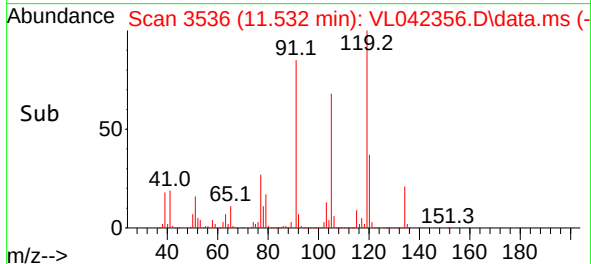
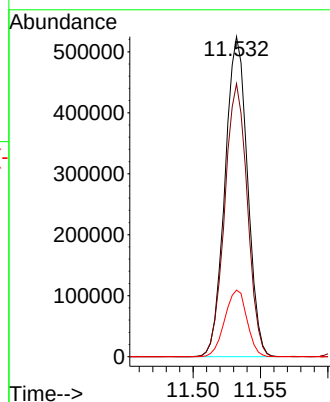
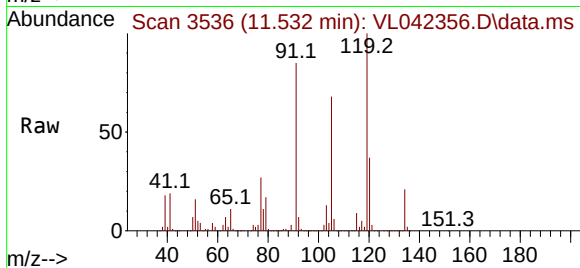
Tgt Ion:119 Resp: 609500

Ion Ratio Lower Upper

119 100

91 85.8 74.6 111.8

134 20.5 18.8 28.2



#66

Benzyl Chloride

Concen: 8.664 ppbv

RT: 11.613 min Scan# 3561

Delta R.T. -0.003 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

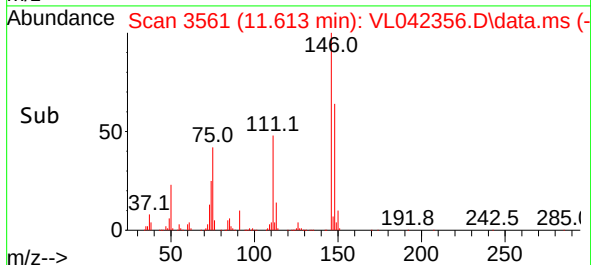
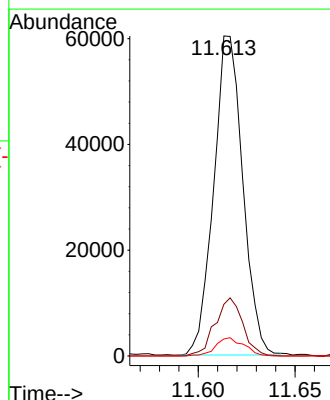
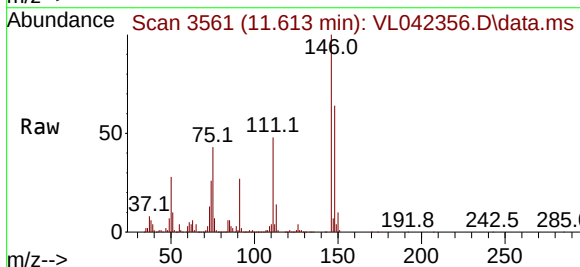
Tgt Ion: 91 Resp: 63051

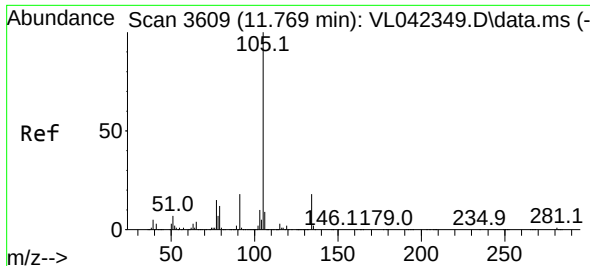
Ion Ratio Lower Upper

91 100

126 17.3 11.8 17.6

128 5.6 4.5 6.7

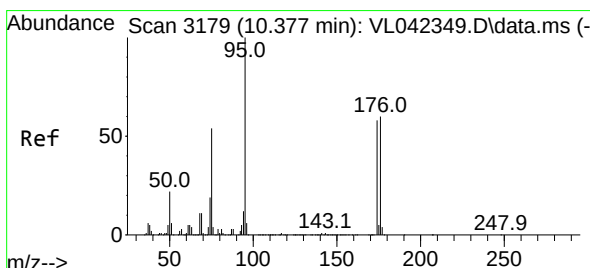
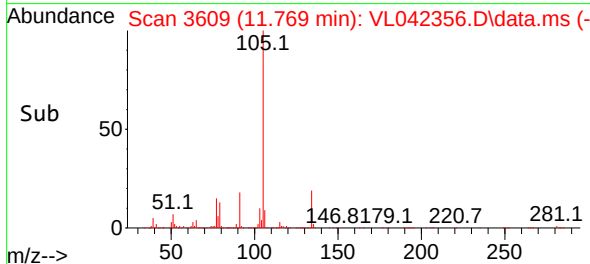
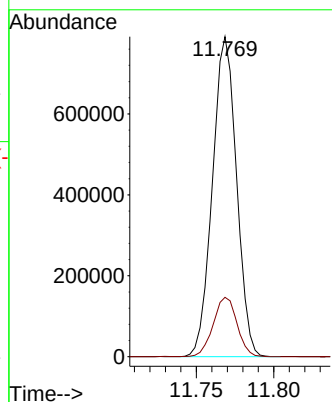
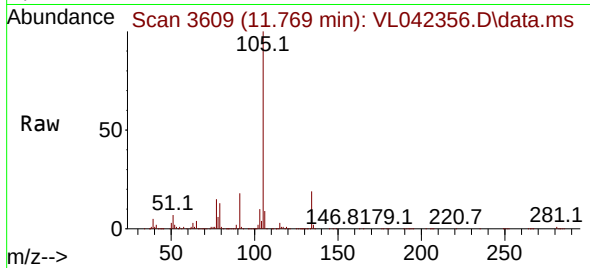




#67
 sec-Butylbenzene
 Concen: 9.268 ppbv
 RT: 11.769 min Scan# 3609
 Delta R.T. -0.000 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

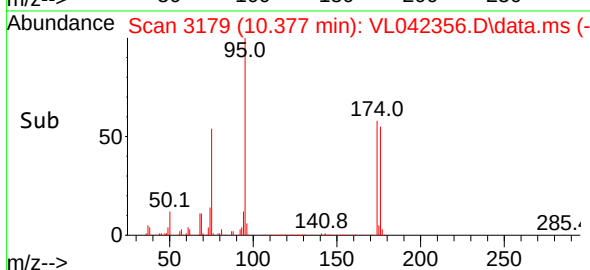
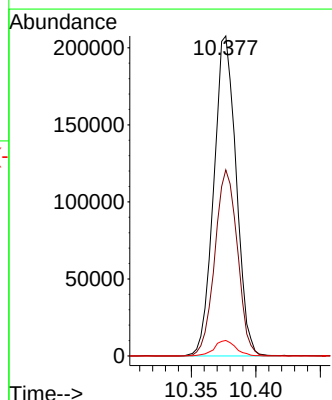
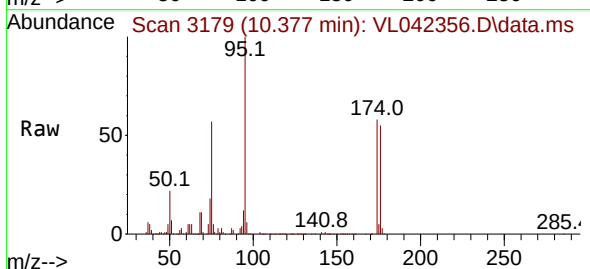
Instrument :
 MSVOA_1
 ClientSampleId :
 ICVVL041725

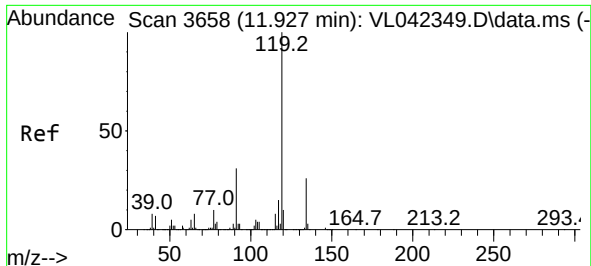
Tgt Ion:105 Resp: 853807
 Ion Ratio Lower Upper
 105 100
 134 18.5 14.6 21.8



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.969 ppbv
 RT: 10.377 min Scan# 3179
 Delta R.T. -0.000 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

Tgt Ion: 95 Resp: 250149
 Ion Ratio Lower Upper
 95 100
 174 58.7 48.5 72.7
 175 4.7 3.7 5.5

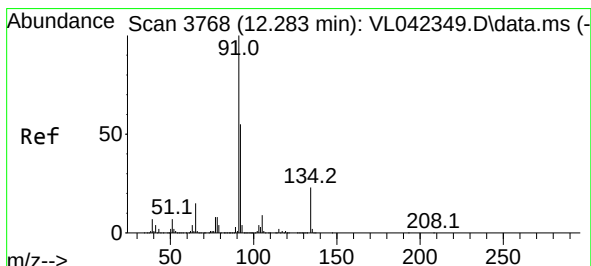
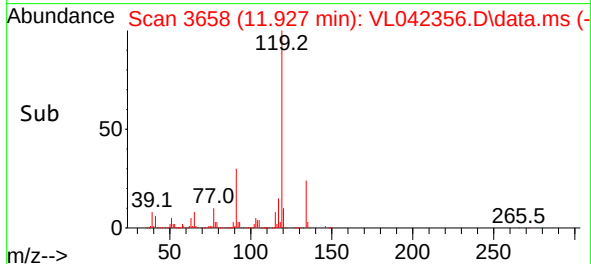
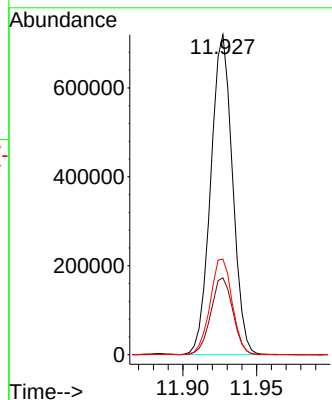
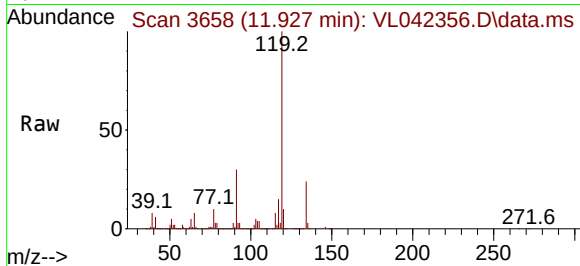




#69
p-Isopropyltoluene
Concen: 9.220 ppbv
RT: 11.927 min Scan# 3658
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

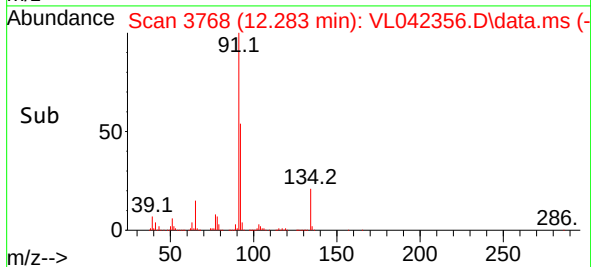
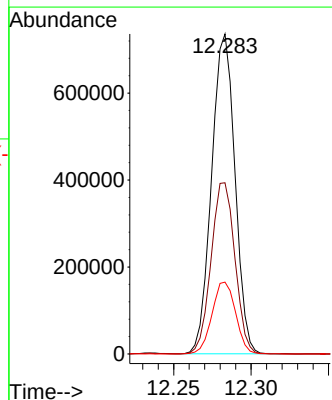
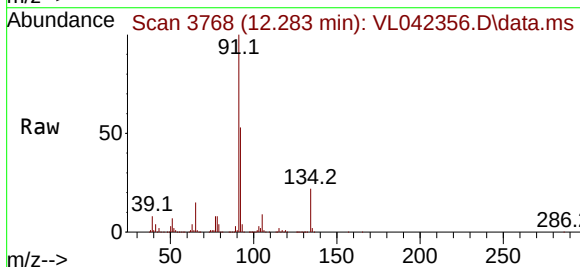
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

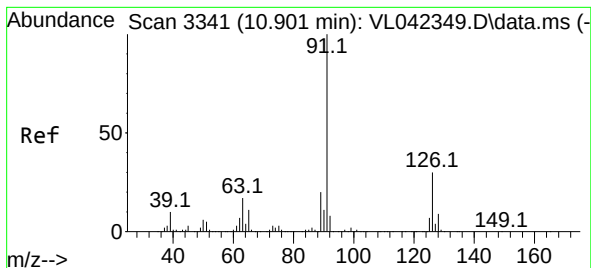
Tgt Ion:119 Resp: 737861
Ion Ratio Lower Upper
119 100
134 24.5 20.0 30.0
91 30.6 24.4 36.6



#70
n-Butylbenzene
Concen: 9.255 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 91 Resp: 771461
Ion Ratio Lower Upper
91 100
92 54.9 44.2 66.4
134 22.7 18.2 27.4

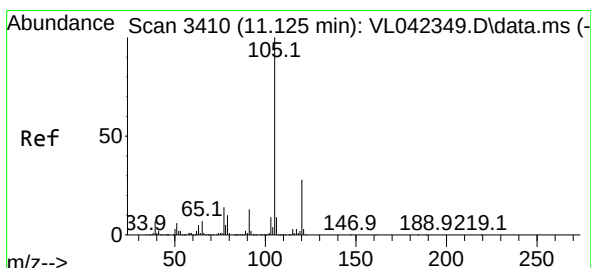
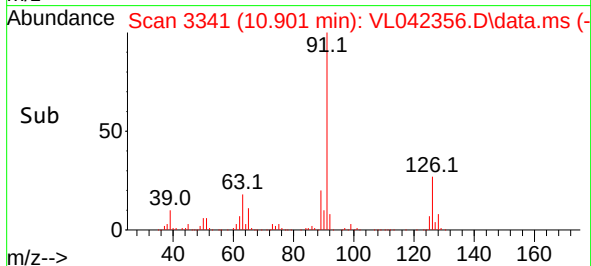
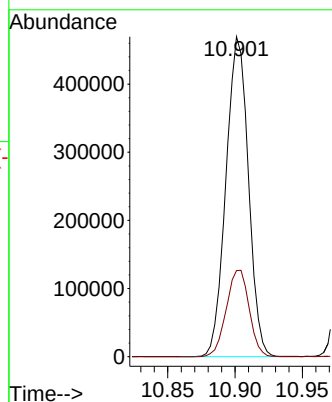
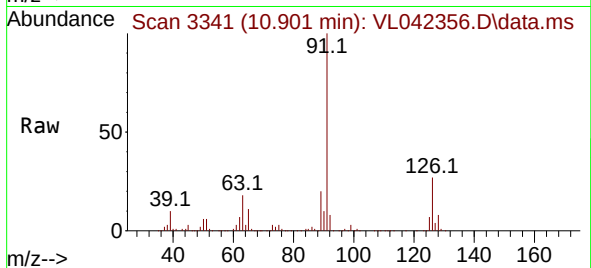




#71
2-Chlorotoluene
Concen: 9.622 ppbv
RT: 10.901 min Scan# 31
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

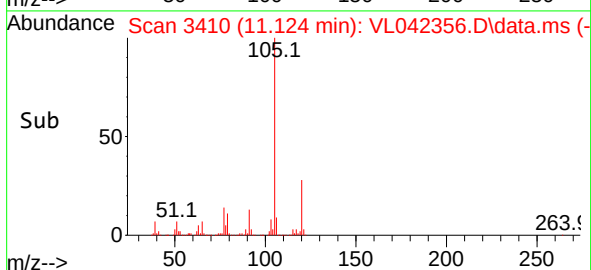
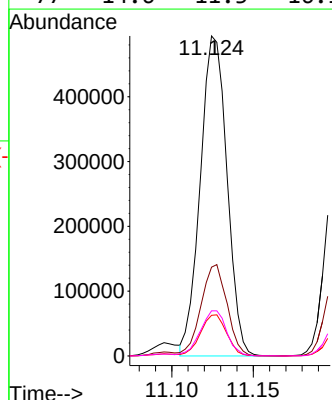
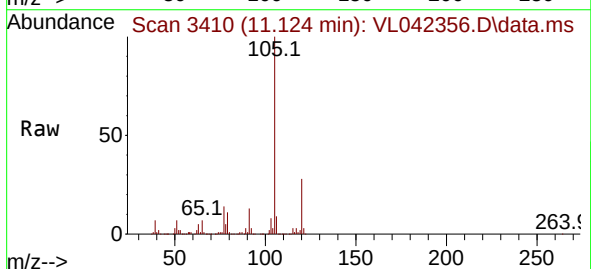
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

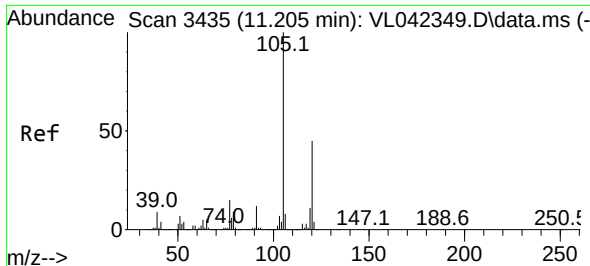
Tgt Ion: 91 Resp: 543794
Ion Ratio Lower Upper
91 100
126 27.5 11.4 45.4



#72
4-Ethyltoluene
Concen: 9.385 ppbv
RT: 11.124 min Scan# 3410
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion: 105 Resp: 563136
Ion Ratio Lower Upper
105 100
120 28.9 23.2 34.8
91 13.2 10.4 15.6
77 14.6 11.3 16.9

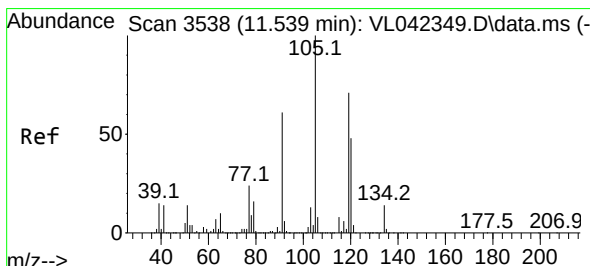
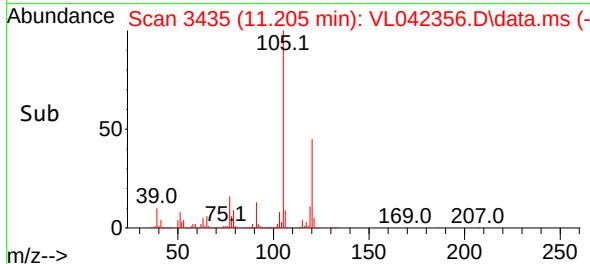
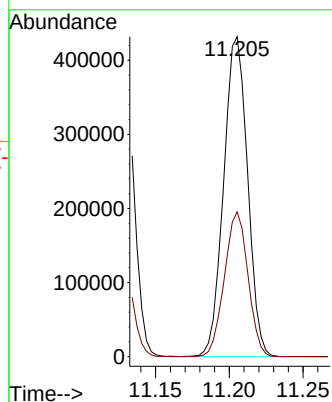
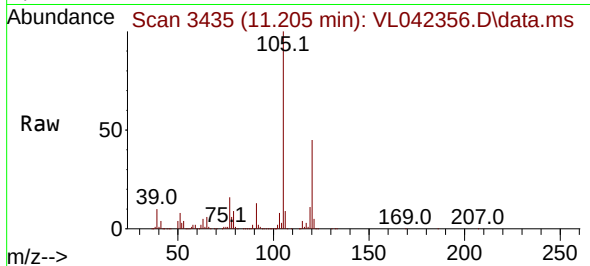




#73
1,3,5-Trimethylbenzene
Concen: 9.186 ppbv
RT: 11.205 min Scan# 3435
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

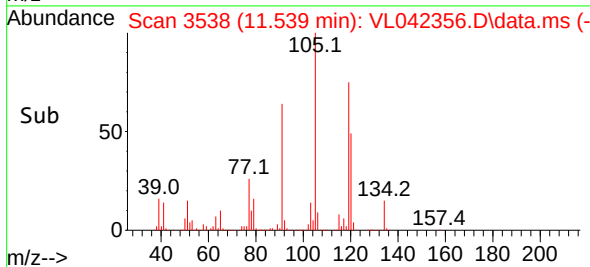
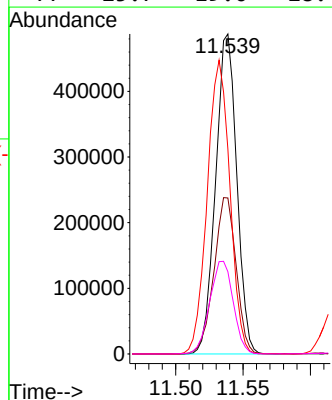
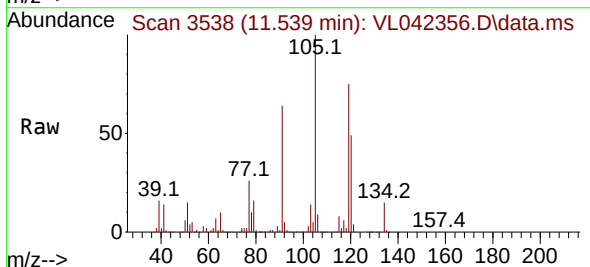
Instrument :
MSVOA_1
ClientSampleId :
ICVVL041725

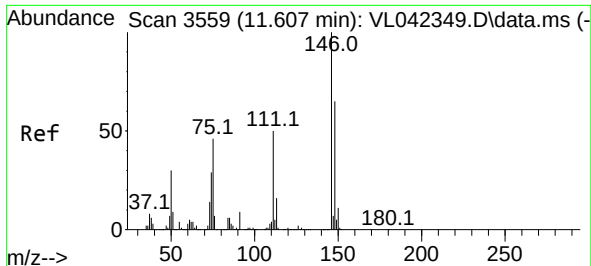
Tgt Ion:105 Resp: 486583
Ion Ratio Lower Upper
105 100
120 45.2 35.6 53.4



#74
1,2,4-Trimethylbenzene
Concen: 8.592 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:105 Resp: 531576
Ion Ratio Lower Upper
105 100
120 48.7 38.1 57.1
91 64.0 48.8 73.2
77 25.7 19.0 28.4

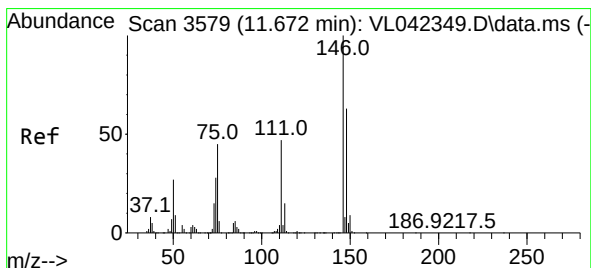
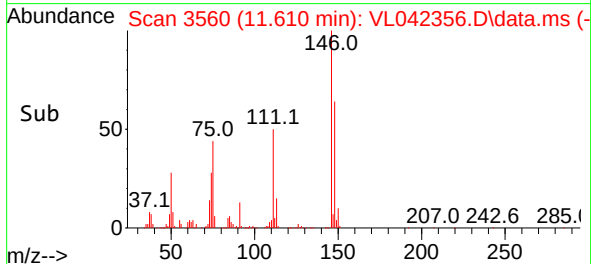
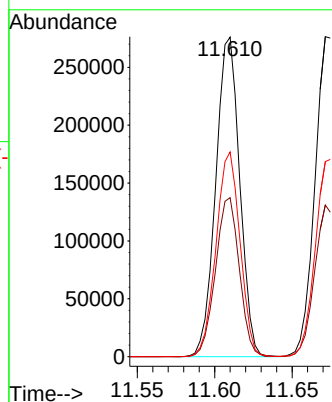
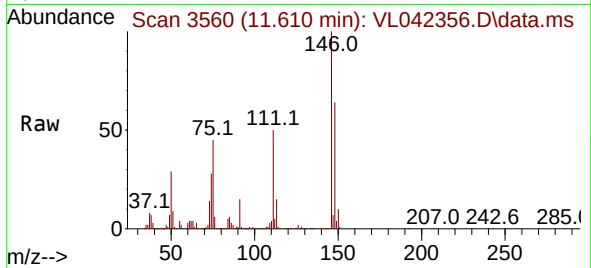




#75
1,3-Dichlorobenzene
Concen: 9.240 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

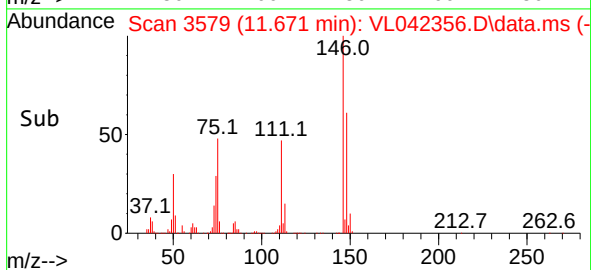
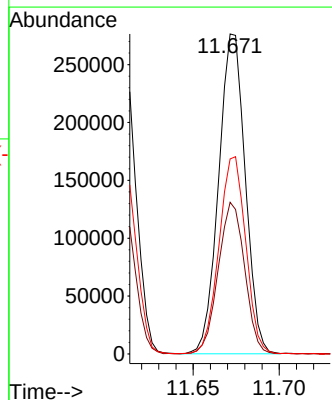
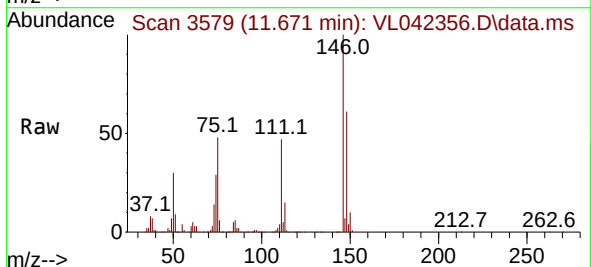
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

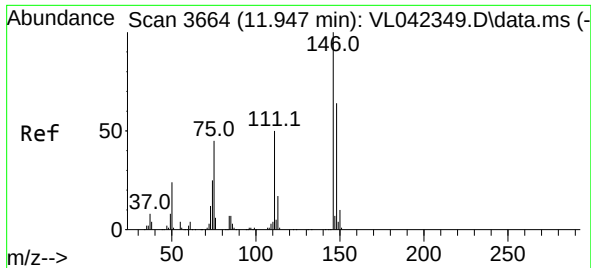
Tgt Ion:146 Resp: 297157
Ion Ratio Lower Upper
146 100
111 49.5 24.3 72.8
148 64.1 31.6 94.8



#76
1,4-Dichlorobenzene
Concen: 9.210 ppbv
RT: 11.671 min Scan# 3579
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:146 Resp: 297697
Ion Ratio Lower Upper
146 100
111 47.1 24.2 72.6
148 62.3 32.1 96.5

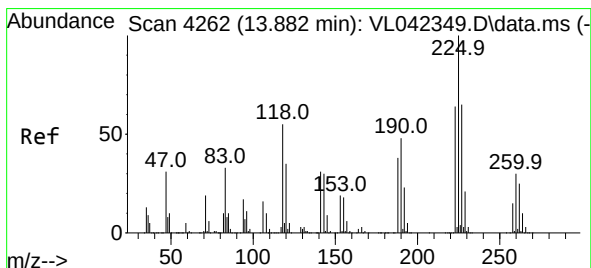
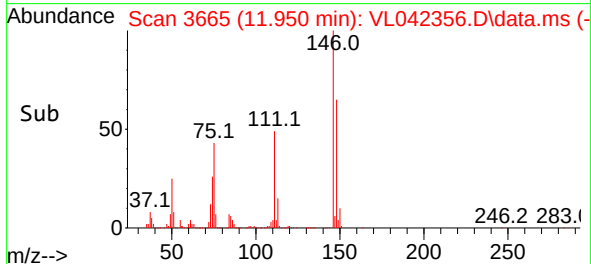
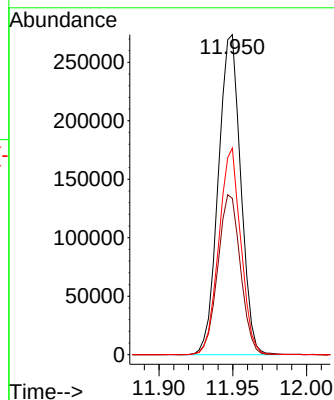
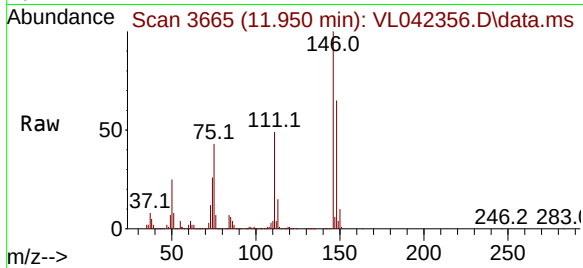




#77
1,2-Dichlorobenzene
Concen: 9.251 ppbv
RT: 11.950 min Scan# 3665
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

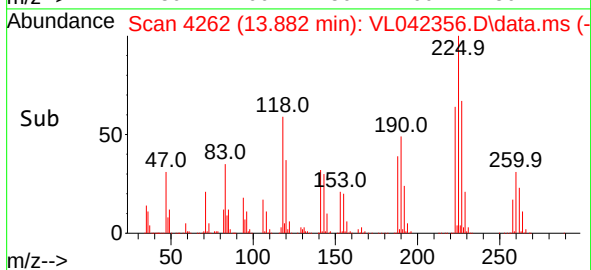
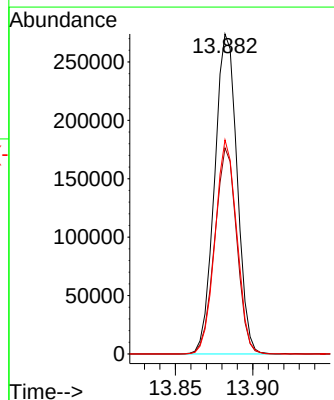
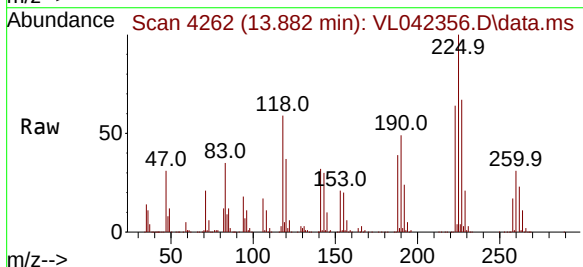
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

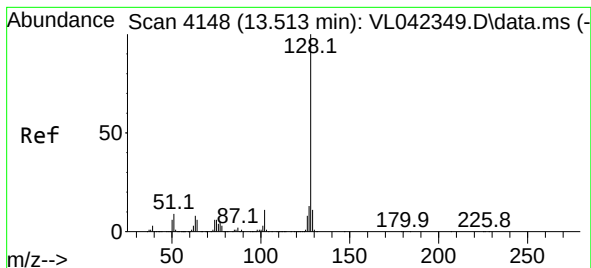
Tgt Ion:146 Resp: 289284
Ion Ratio Lower Upper
146 100
111 50.8 25.3 75.9
148 63.4 31.5 94.5



#78
Hexachloro-1,3-Butadiene
Concen: 8.771 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Tgt Ion:225 Resp: 276960
Ion Ratio Lower Upper
225 100
223 63.0 50.3 75.5
227 64.5 51.5 77.3





#79

Naphthalene

Concen: 8.750 ppbv

RT: 13.513 min Scan# 4148

Delta R.T. -0.000 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

Instrument :

MSVOA_L

ClientSampleId :

ICVVL041725

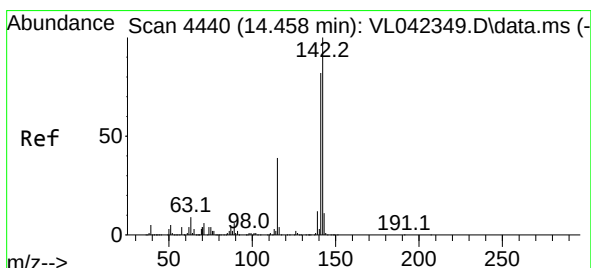
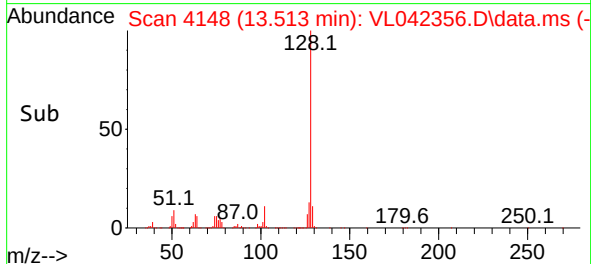
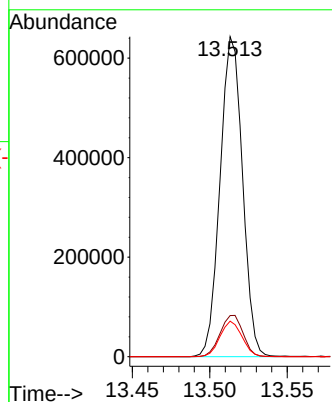
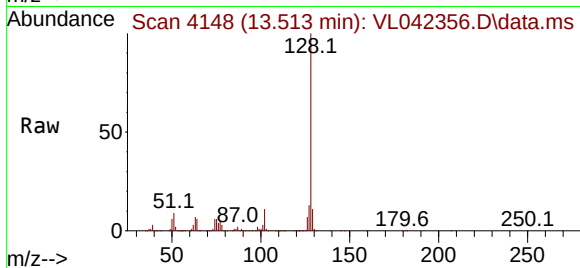
Tgt Ion:128 Resp: 647349

Ion Ratio Lower Upper

128 100

127 12.9 10.6 15.8

129 11.1 8.6 12.8



#80

Naphthalene,2-methyl-

Concen: 8.307 ppbv

RT: 14.458 min Scan# 4440

Delta R.T. -0.000 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

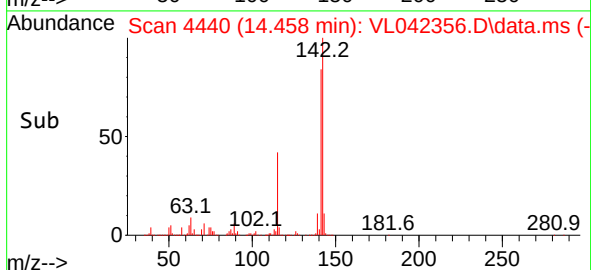
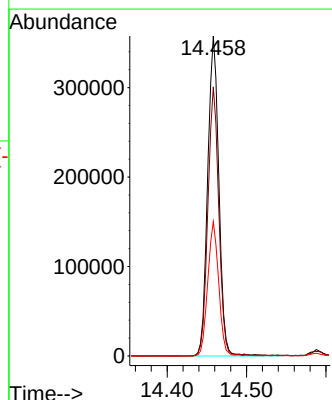
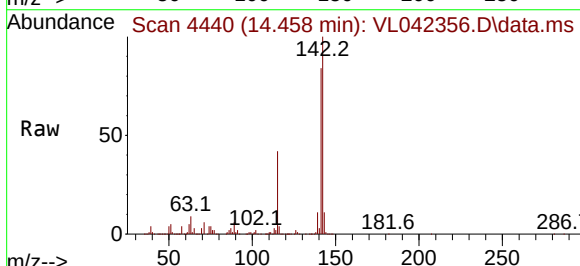
Tgt Ion:142 Resp: 350259

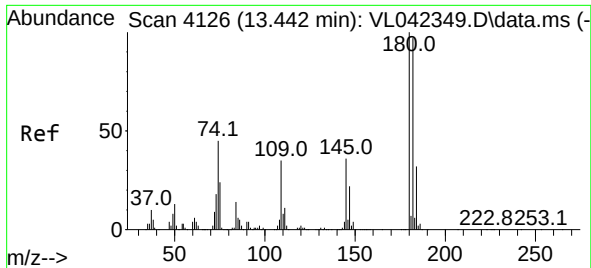
Ion Ratio Lower Upper

142 100

141 83.0 66.8 100.2

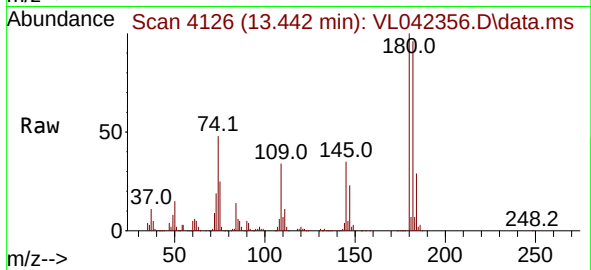
115 41.4 33.4 50.2



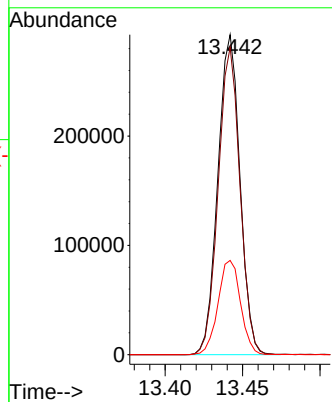
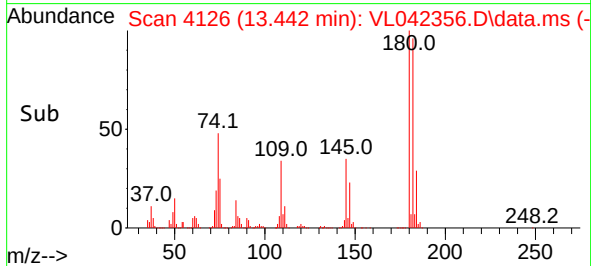


#81
 1,2,4-Trichlorobenzene
 Concen: 9.136 ppbv
 RT: 13.442 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL041725



Tgt Ion:180 Resp: 290260
 Ion Ratio Lower Upper
 180 100
 182 94.7 76.8 115.2
 184 30.1 24.6 36.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042358.D
 Acq On : 17 Apr 2025 15:39
 Operator : SY/MD
 Sample : VL0417ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0417ABS01

Quant Time: Apr 18 02:36:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 02:14:00 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	122375	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	352201	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	321521	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	266757	10.096	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.000%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	223505	10.337	ppbv	97
3) Chlorodifluoromethane	1.476	51	206172	10.014	ppbv	100
4) Chloromethane	1.535	50	86675	10.130	ppbv	98
5) Vinyl Chloride	1.583	62	83419	8.956	ppbv	98
6) Bromomethane	1.670	94	36951	9.235	ppbv	83
7) Chloroethane	1.706	64	33936	10.075	ppbv	100
8) Dichlorotetrafluoroethane	1.557	85	189924	10.231	ppbv	95
9) Propene	1.486	41	88088	9.395	ppbv	98
10) Heptane	4.985	43	243501	9.244	ppbv	99
11) Trichlorofluoromethane	1.881	101	206645	10.050	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.140	101	169501	10.083	ppbv	98
13) Ethanol	1.722	45	4837	3.246	ppbv	88
14) Bromoethene	1.784	108	62214	9.818	ppbv	98
15) Acetone	1.836	43	175153	8.743	ppbv	100
16) 1,3-Butadiene	1.609	39	86965	9.076	ppbv	96
17) tert-Butyl alcohol	2.043	59	242154	9.754	ppbv	100
18) 1,1-Dichloroethene	2.036	96	77247	9.836	ppbv	99
19) Isopropyl Alcohol	1.887	45	104123	9.356	ppbv	94
20) Methylene Chloride	2.062	84	69548	8.865	ppbv	91
21) Allyl Chloride	2.098	41	134221	9.704	ppbv	99
22) trans-1,2-Dichloroethene	2.344	96	86323	9.653	ppbv	97
23) Vinyl Acetate	2.467	43	68337	8.427	ppbv #	97
24) 1,1-Dichloroethane	2.412	63	173238	10.199	ppbv	99
25) Ethyl Acetate	2.839	43	488686	9.894	ppbv	100
26) Hexane	2.829	57	195124	9.761	ppbv	97
27) Carbon Disulfide	2.153	76	218345	10.202	ppbv	97
28) Methyl tert-Butyl Ether	2.444	73	124554	9.510	ppbv	96
29) Chloroform	2.852	83	289294	10.239	ppbv	99
30) Cyclohexane	3.862	84	163017	10.088	ppbv	100
31) cis-1,2-Dichloroethene	2.726	61	198108	10.424	ppbv	98
32) 1,1,1-Trichloroethane	3.373	97	309460	9.729	ppbv	99
34) 2-Butanone	2.561	43	272600	9.787	ppbv	99
35) Carbon Tetrachloride	3.768	117	305245	9.576	ppbv	92
36) Benzene	3.661	78	383239	10.088	ppbv	98
37) 1,2-Dichloroethane	3.224	62	236611	10.377	ppbv	99
38) Trichloroethene	4.558	130	153596	9.251	ppbv	98
39) 1,2-Dichloropropane	4.321	63	139669	9.866	ppbv	95
40) 1,4-Dioxane	4.590	88	67808	8.716	ppbv #	95
41) Tetrahydrofuran	3.059	42	157777	9.715	ppbv	99
42) Bromodichloromethane	4.496	83	327652	10.326	ppbv	98
43) Methyl Methacrylate	4.888	69	159292	9.304	ppbv	95
44) 2,2,4-Trimethylpentane	4.648	57	657377	10.019	ppbv	99
45) t-1,3-Dichloropropene	6.422	75	172514	9.864	ppbv	91

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042358.D
 Acq On : 17 Apr 2025 15:39
 Operator : SY/MD
 Sample : VL0417ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

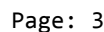
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0417ABS01

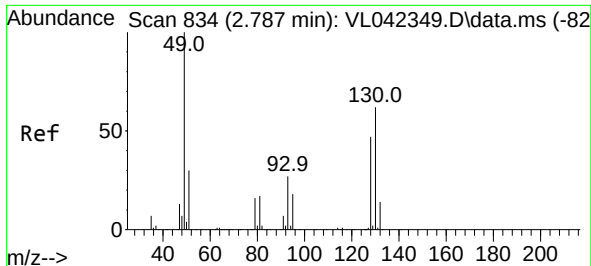
Quant Time: Apr 18 02:36:58 2025
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 02:14:00 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.606	75	216901	10.133	ppbv	91
47) 1,1,2-Trichloroethane	6.590	97	146547	10.161	ppbv	96
48) Dibromochloromethane	7.396	129	261470	10.261	ppbv	100
49) Bromoform	9.487	173	221372	9.936	ppbv	99
50) 4-Methyl-2-Pentanone	5.758	43	407804	8.810	ppbv	99
51) 2-Hexanone	7.441	43	332646	8.013	ppbv #	98
52) Tetrachloroethene	8.231	164	128670	8.763	ppbv	96
53) Toluene	6.943	91	447581	9.818	ppbv	100
54) 1,2-Dibromoethane	7.658	107	204328	9.899	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.930	131	199945	10.275	ppbv	96
57) Chlorobenzene	8.927	112	335143	10.022	ppbv	99
58) Ethyl Benzene	9.361	91	635446	9.975	ppbv	97
59) m/p-Xylene	9.555	91	513237	10.001	ppbv #	33
60) o-Xylene	9.969	91	506535	9.802	ppbv	99
61) Styrene	9.875	104	248022	10.055	ppbv	99
62) Isopropylbenzene	10.545	105	745571	9.827	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.969	83	298581	8.916	ppbv	100
64) n-propylbenzene	10.995	120	188310	9.875	ppbv	95
65) tert-Butylbenzene	11.536	119	668687	9.589	ppbv	93
66) Benzyl Chloride	11.620	91	69058	9.012	ppbv	96
67) sec-Butylbenzene	11.772	105	930426	9.592	ppbv	100
69) p-Isopropyltoluene	11.931	119	795532	9.441	ppbv	99
70) n-Butylbenzene	12.287	91	846427	9.644	ppbv	100
71) 2-Chlorotoluene	10.905	91	591154	9.934	ppbv	99
72) 4-Ethyltoluene	11.131	105	606879	9.606	ppbv	99
73) 1,3,5-Trimethylbenzene	11.209	105	533060	9.557	ppbv	98
74) 1,2,4-Trimethylbenzene	11.542	105	584747	8.976	ppbv	96
75) 1,3-Dichlorobenzene	11.613	146	320811	9.474	ppbv	99
76) 1,4-Dichlorobenzene	11.675	146	319376	9.384	ppbv	100
77) 1,2-Dichlorobenzene	11.953	146	311460	9.459	ppbv	99
78) Hexachloro-1,3-Butadiene	13.886	225	303379	9.124	ppbv	99
79) Naphthalene	13.517	128	701010	8.999	ppbv	99
80) Naphthalene,2-methyl-	14.462	142	369891	8.331	ppbv	98
81) 1,2,4-Trichlorobenzene	13.445	180	315002	9.417	ppbv	99

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

Quant Time: Apr 18 02:36:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

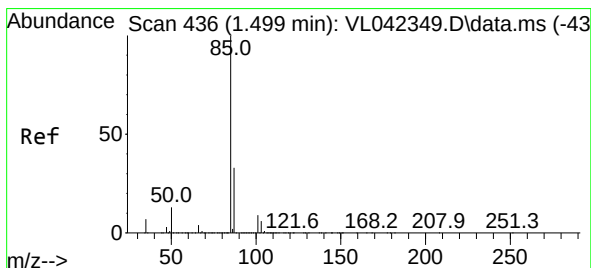
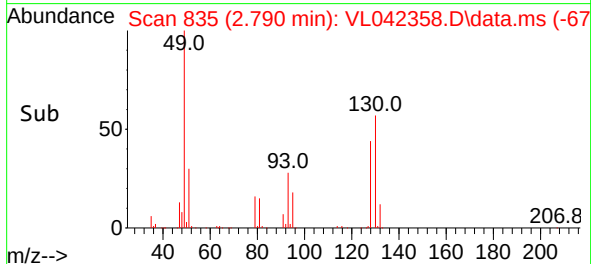
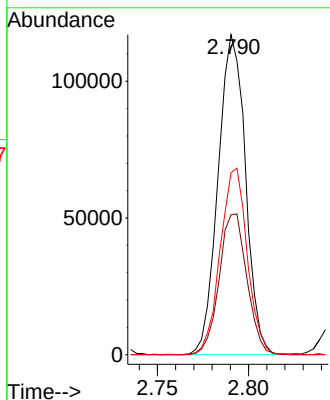
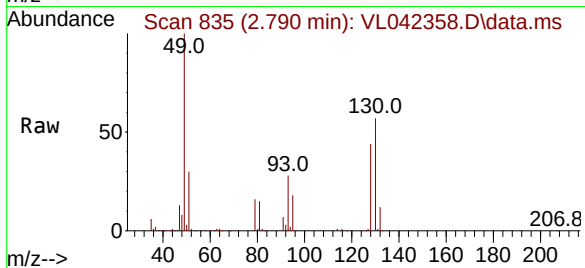




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.790 min Scan# 81
 Delta R.T. 0.003 min
 Lab File: VL042358.D
 Acq: 17 Apr 2025 15:39

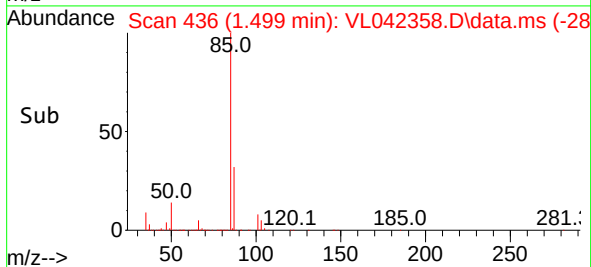
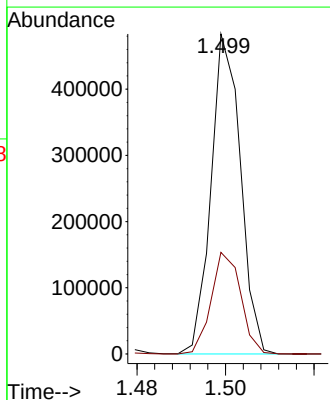
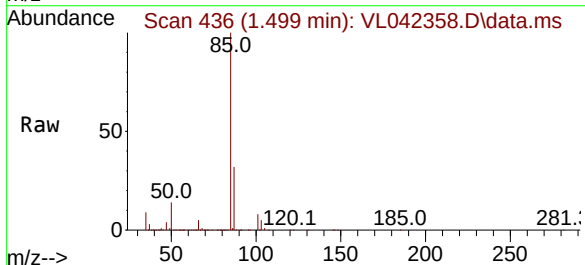
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0417ABS01

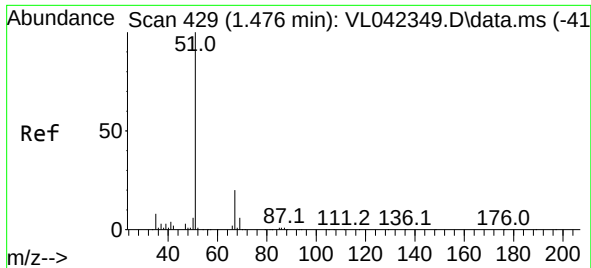
Tgt Ion: 49 Resp: 122375
 Ion Ratio Lower Upper
 49 100
 128 44.5 22.8 68.4
 130 57.6 29.3 88.0



#2
 Dichlorodifluoromethane
 Concen: 10.337 ppbv
 RT: 1.499 min Scan# 436
 Delta R.T. 0.000 min
 Lab File: VL042358.D
 Acq: 17 Apr 2025 15:39

Tgt Ion: 85 Resp: 223505
 Ion Ratio Lower Upper
 85 100
 87 31.7 26.6 39.8

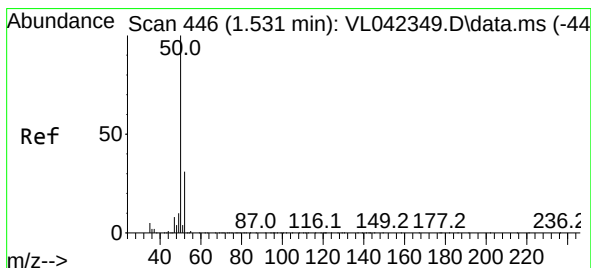
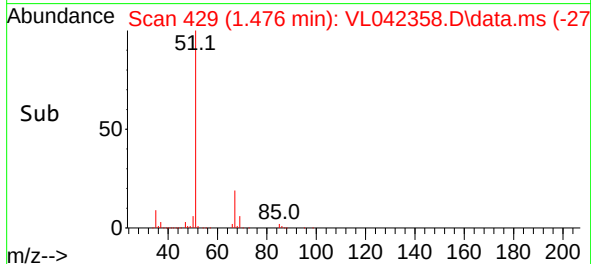
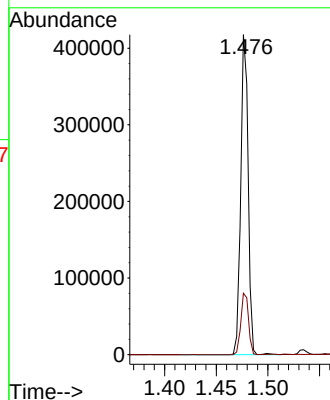
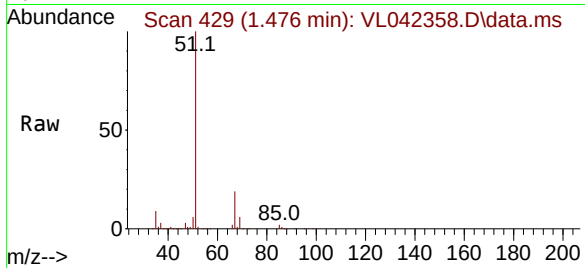




#3
Chlorodifluoromethane
Concen: 10.014 ppbv
RT: 1.476 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

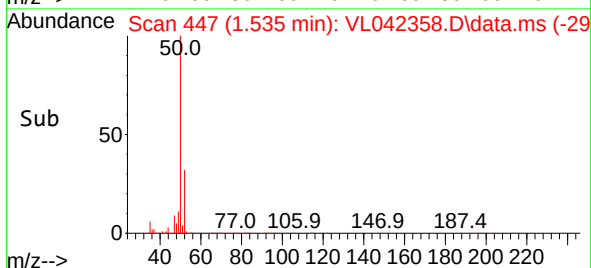
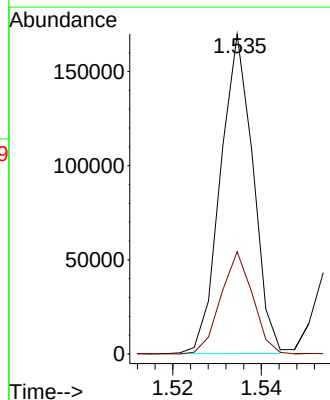
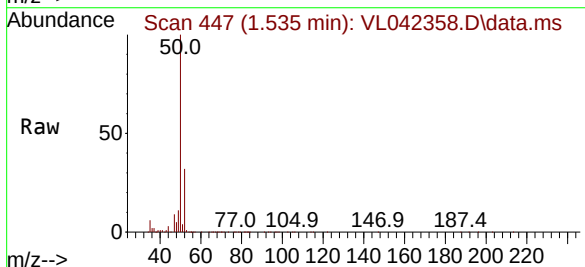
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

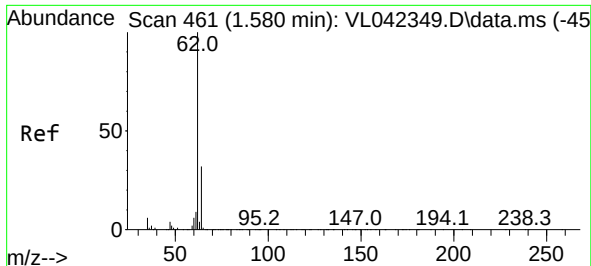
Tgt Ion: 51 Resp: 206172
Ion Ratio Lower Upper
51 100
67 20.2 16.2 24.4



#4
Chloromethane
Concen: 10.130 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 50 Resp: 86675
Ion Ratio Lower Upper
50 100
52 32.1 24.7 37.1

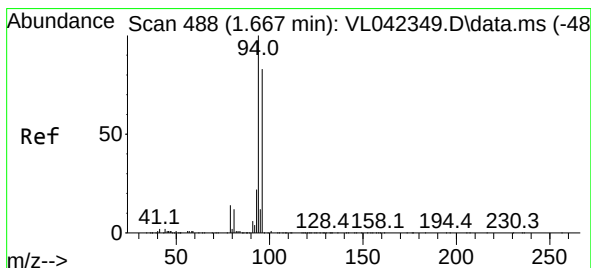
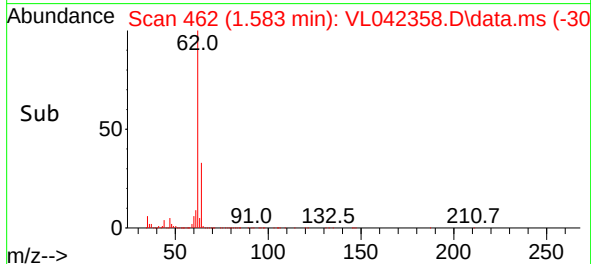
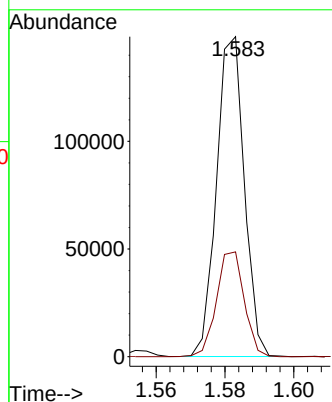
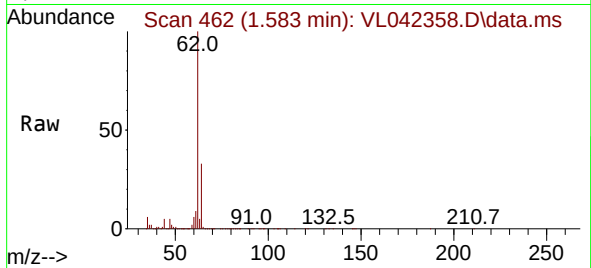




#5
 Vinyl Chloride
 Concen: 8.956 ppbv
 RT: 1.583 min Scan# 461
 Delta R.T. 0.003 min
 Lab File: VL042358.D
 Acq: 17 Apr 2025 15:39

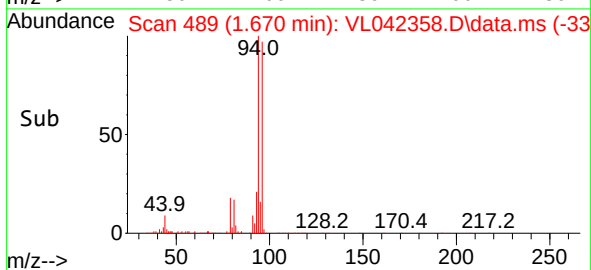
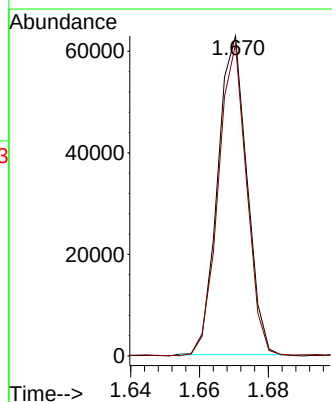
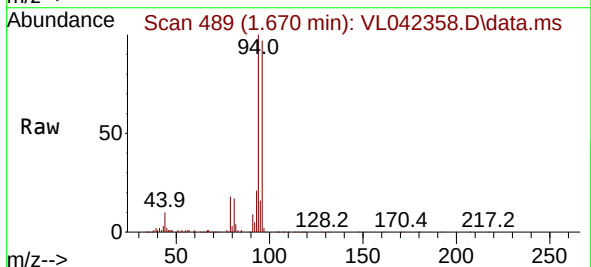
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0417ABS01

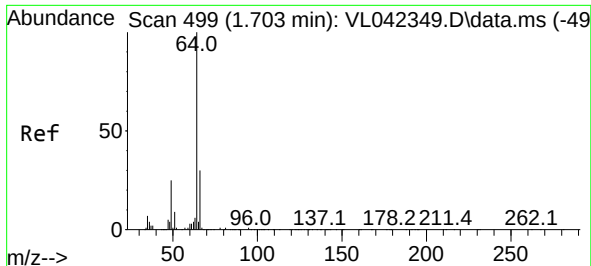
Tgt Ion: 62 Resp: 83419
 Ion Ratio Lower Upper
 62 100
 64 32.8 25.4 38.0



#6
 Bromomethane
 Concen: 9.235 ppbv
 RT: 1.670 min Scan# 489
 Delta R.T. 0.003 min
 Lab File: VL042358.D
 Acq: 17 Apr 2025 15:39

Tgt Ion: 94 Resp: 36951
 Ion Ratio Lower Upper
 94 100
 96 97.7 66.2 99.2

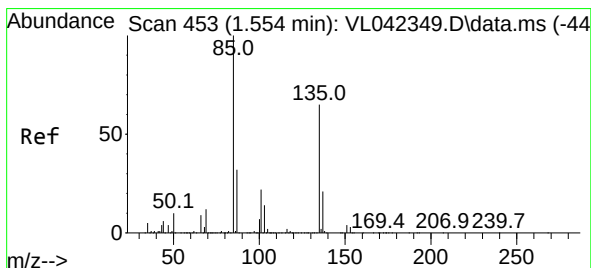
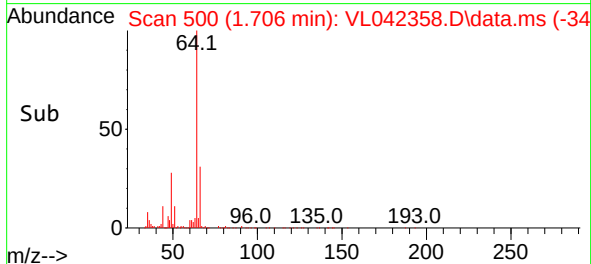
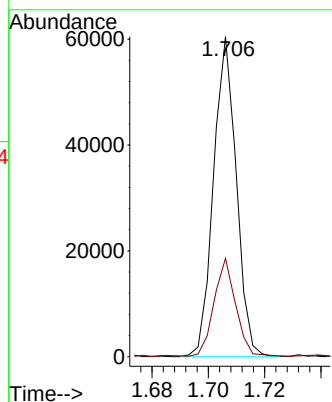
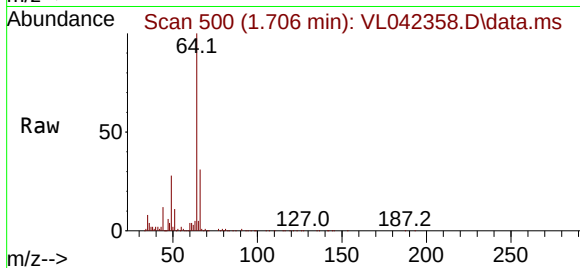




#7
 Chloroethane
 Concen: 10.075 ppbv
 RT: 1.706 min Scan# 50
 Delta R.T. 0.003 min
 Lab File: VL042358.D
 Acq: 17 Apr 2025 15:39

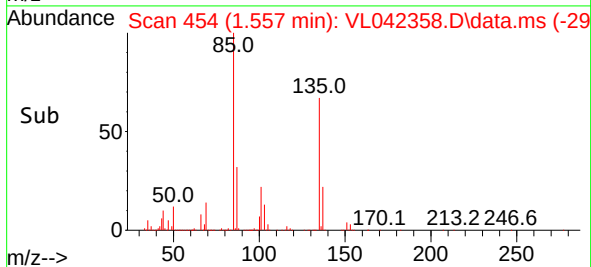
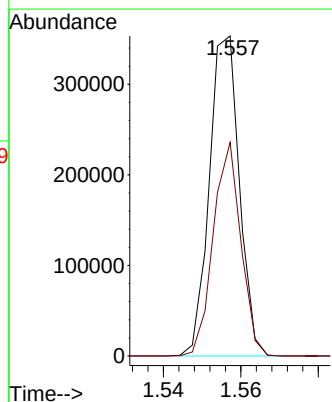
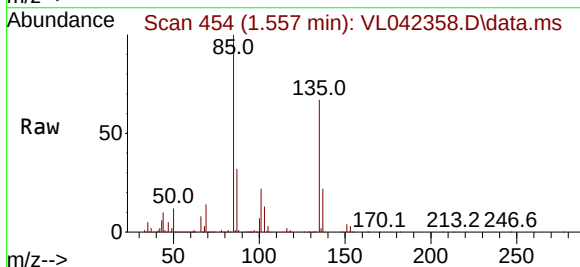
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0417ABS01

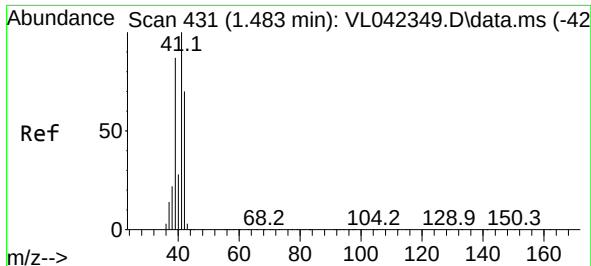
Tgt Ion: 64 Resp: 33936
 Ion Ratio Lower Upper
 64 100
 66 30.7 24.6 37.0



#8
 Dichlorotetrafluoroethane
 Concen: 10.231 ppbv
 RT: 1.557 min Scan# 454
 Delta R.T. 0.003 min
 Lab File: VL042358.D
 Acq: 17 Apr 2025 15:39

Tgt Ion: 85 Resp: 189924
 Ion Ratio Lower Upper
 85 100
 135 61.4 52.2 78.2





#9

Propene

Concen: 9.395 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042358.D

Acq: 17 Apr 2025 15:39

Instrument :

MSVOA_L

ClientSampleId :

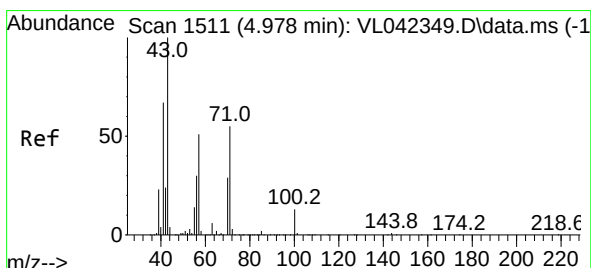
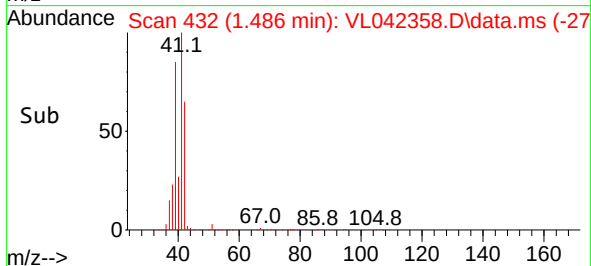
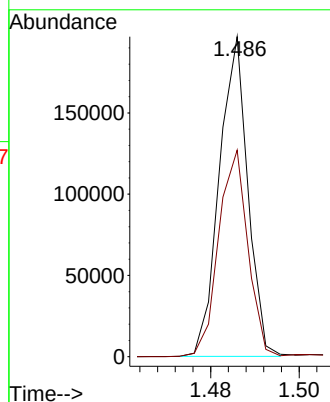
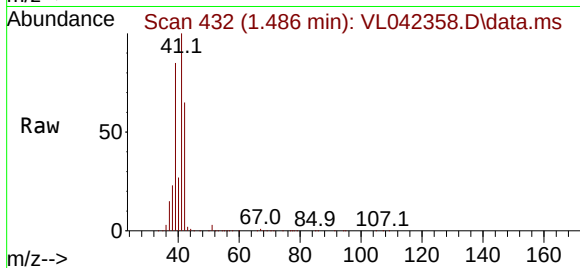
VL0417ABS01

Tgt Ion: 41 Resp: 88088

Ion Ratio Lower Upper

41 100

42 68.4 56.2 84.4



#10

Heptane

Concen: 9.244 ppbv

RT: 4.985 min Scan# 1513

Delta R.T. 0.007 min

Lab File: VL042358.D

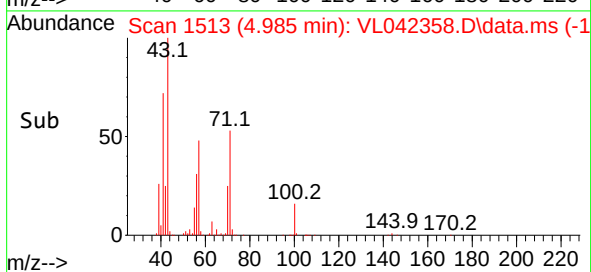
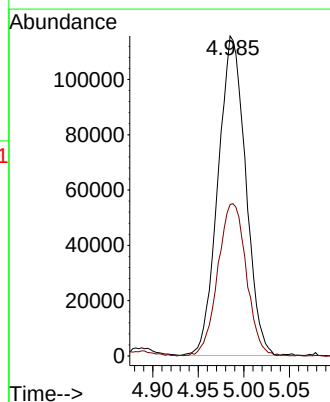
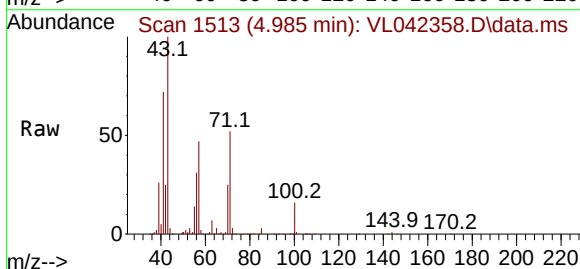
Acq: 17 Apr 2025 15:39

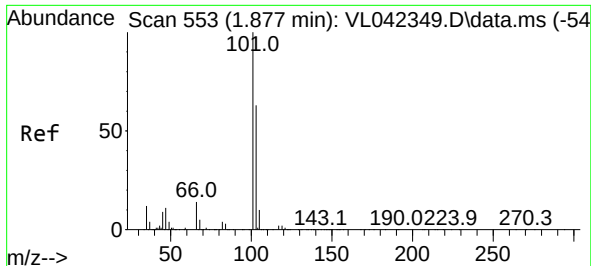
Tgt Ion: 43 Resp: 243501

Ion Ratio Lower Upper

43 100

57 49.4 39.9 59.9

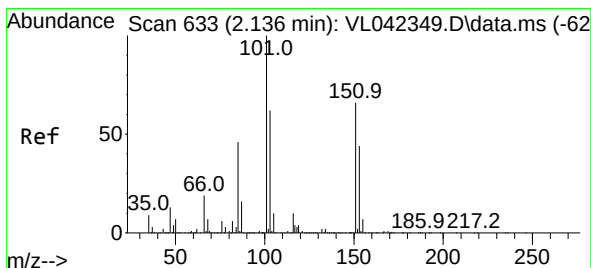
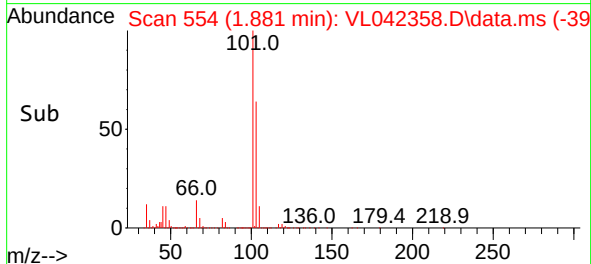
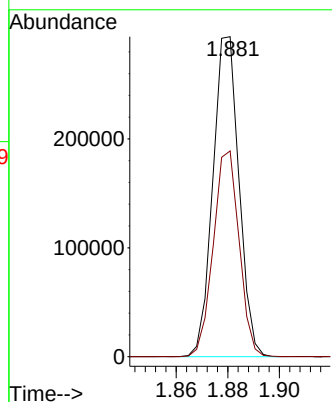
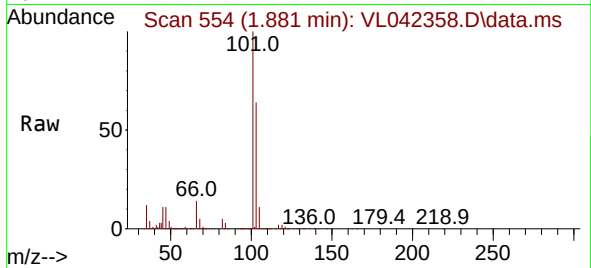




#11
 Trichlorofluoromethane
 Concen: 10.050 ppbv
 RT: 1.881 min Scan# 51
 Delta R.T. 0.003 min
 Lab File: VL042358.D
 Acq: 17 Apr 2025 15:39

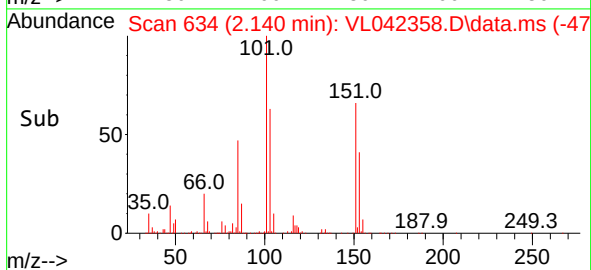
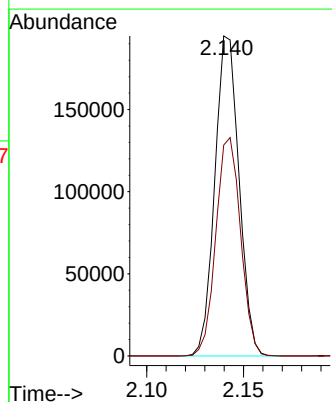
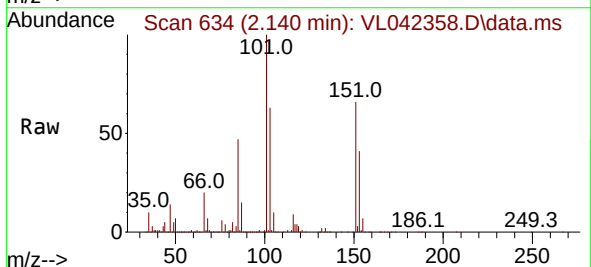
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0417ABS01

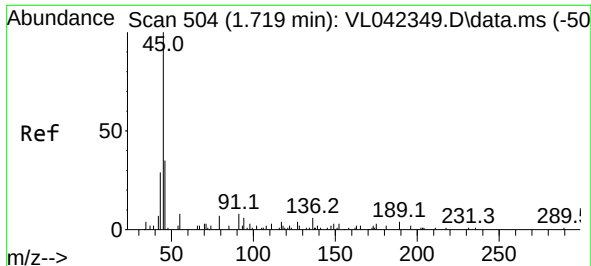
Tgt Ion:101 Resp: 206645
 Ion Ratio Lower Upper
 101 100
 103 64.3 50.1 75.1



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 10.083 ppbv
 RT: 2.140 min Scan# 634
 Delta R.T. 0.003 min
 Lab File: VL042358.D
 Acq: 17 Apr 2025 15:39

Tgt Ion:101 Resp: 169501
 Ion Ratio Lower Upper
 101 100
 151 69.6 57.0 85.6

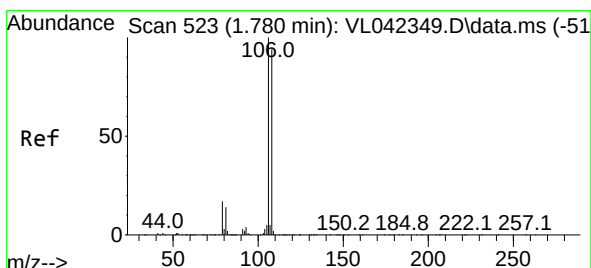
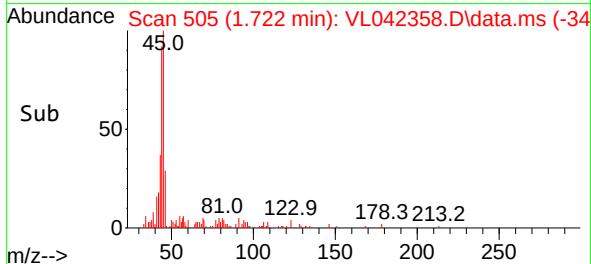
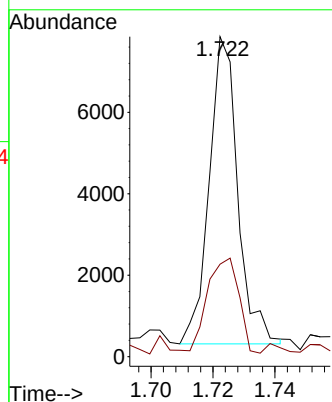
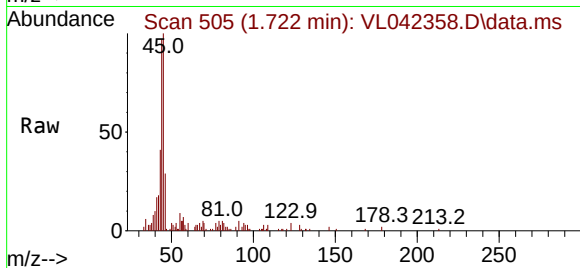




#13
Ethanol
Concen: 3.246 ppbv
RT: 1.722 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

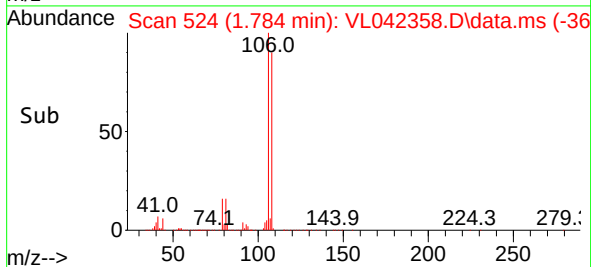
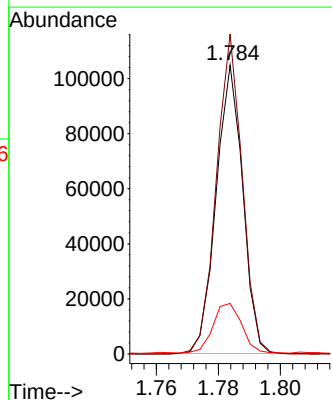
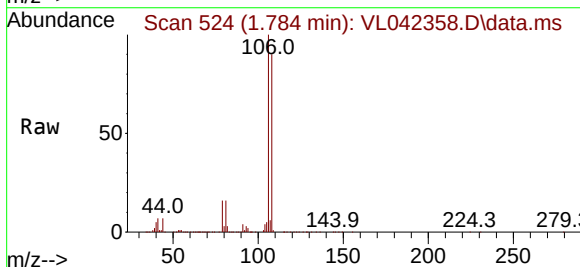
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

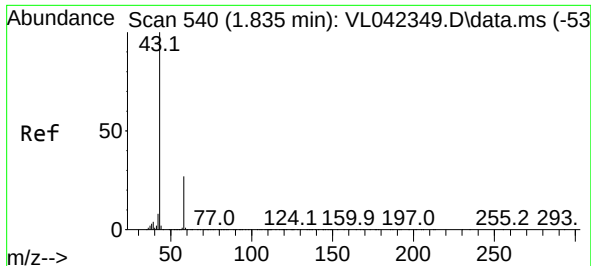
Tgt Ion: 45 Resp: 4837
Ion Ratio Lower Upper
45 100
46 45.8 21.9 87.7



#14
Bromoethene
Concen: 9.818 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 108 Resp: 62214
Ion Ratio Lower Upper
108 100
106 108.2 85.9 128.9
79 20.6 13.9 20.9

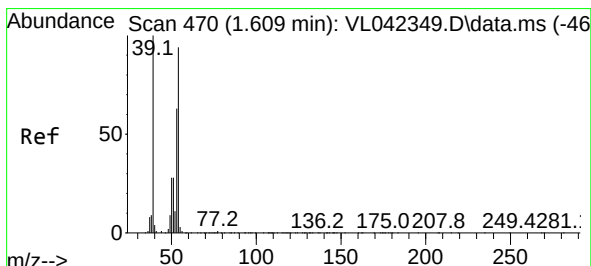
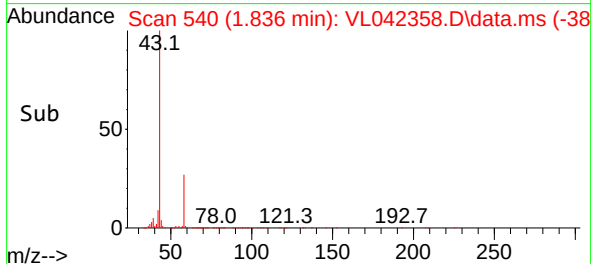
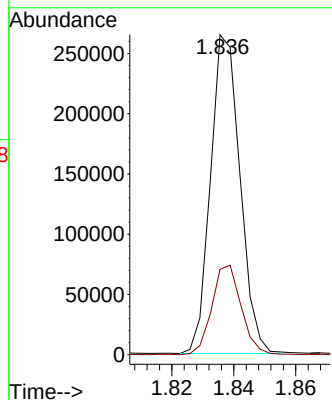
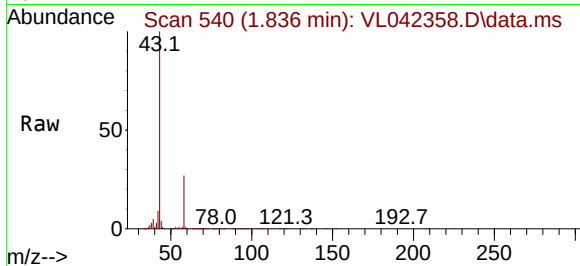




#15
Acetone
Concen: 8.743 ppbv
RT: 1.836 min Scan# 54
Delta R.T. 0.000 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

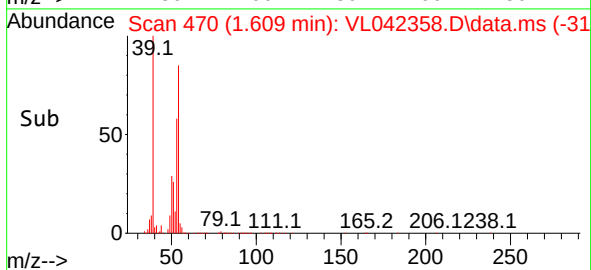
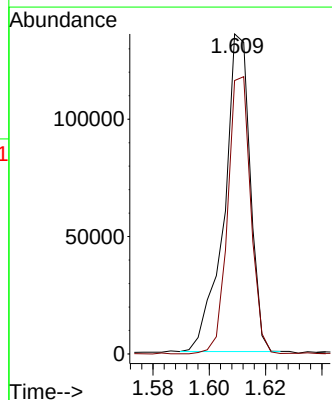
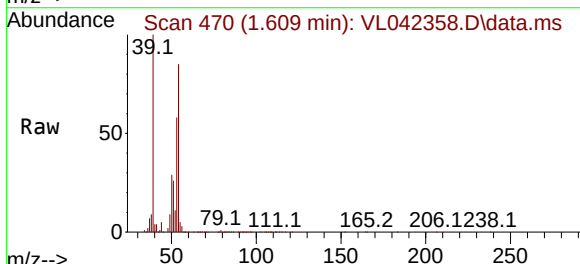
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

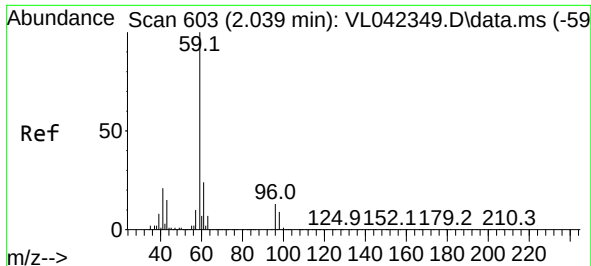
Tgt Ion: 43 Resp: 175153
Ion Ratio Lower Upper
43 100
58 27.9 22.4 33.6



#16
1,3-Butadiene
Concen: 9.076 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 39 Resp: 86965
Ion Ratio Lower Upper
39 100
54 77.9 64.9 97.3





#17

tert-Butyl alcohol

Concen: 9.754 ppbv

RT: 2.043 min Scan# 603

Delta R.T. 0.003 min

Lab File: VL042358.D

Acq: 17 Apr 2025 15:39

Instrument :

MSVOA_L

ClientSampleId :

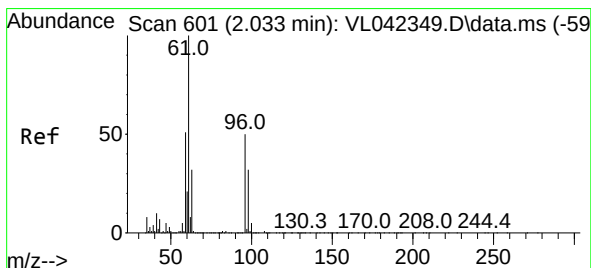
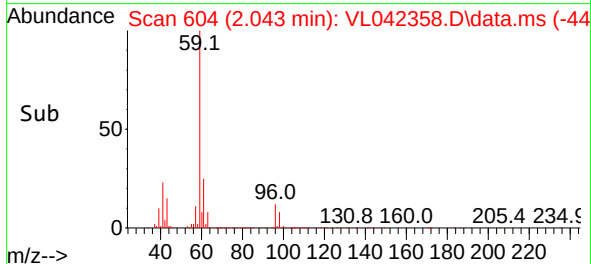
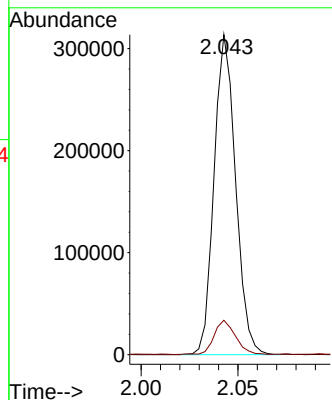
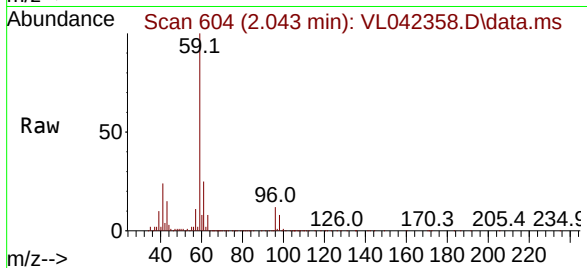
VL0417ABS01

Tgt Ion: 59 Resp: 242154

Ion Ratio Lower Upper

59 100

57 10.9 8.7 13.1



#18

1,1-Dichloroethene

Concen: 9.836 ppbv

RT: 2.036 min Scan# 602

Delta R.T. 0.003 min

Lab File: VL042358.D

Acq: 17 Apr 2025 15:39

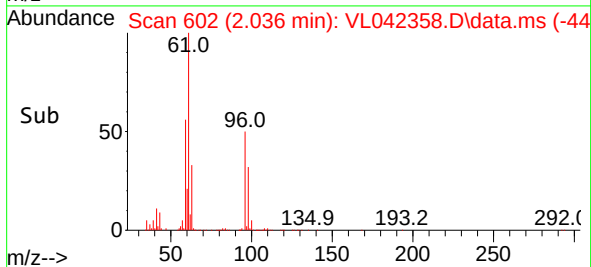
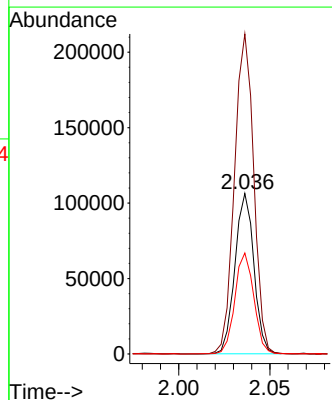
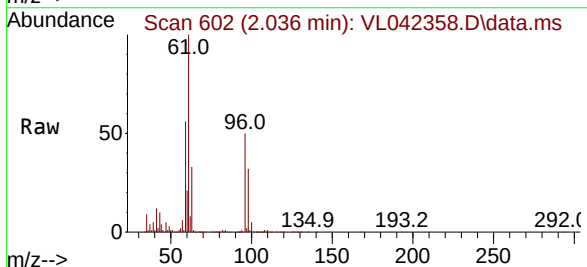
Tgt Ion: 96 Resp: 77247

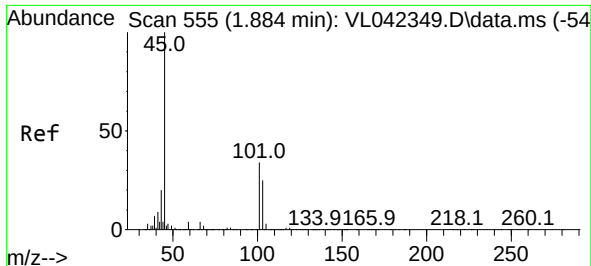
Ion Ratio Lower Upper

96 100

61 199.6 160.2 240.2

98 63.0 51.0 76.4

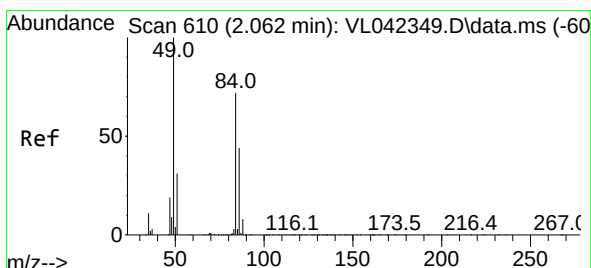
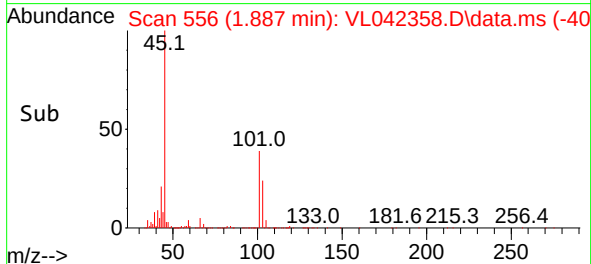
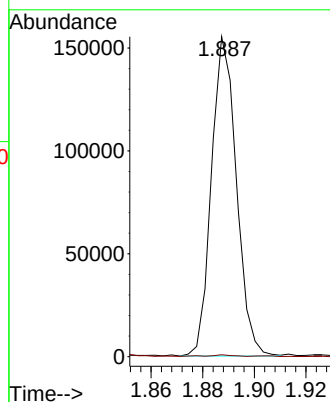
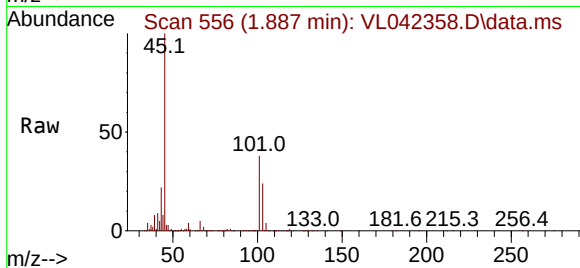




#19
Isopropyl Alcohol
Concen: 9.356 ppbv
RT: 1.887 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

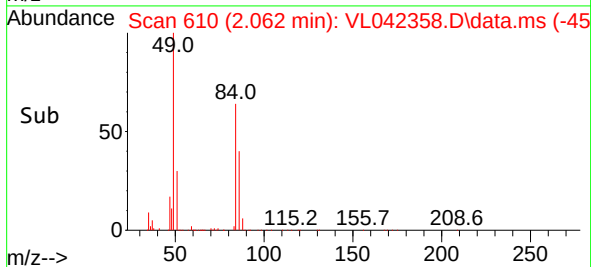
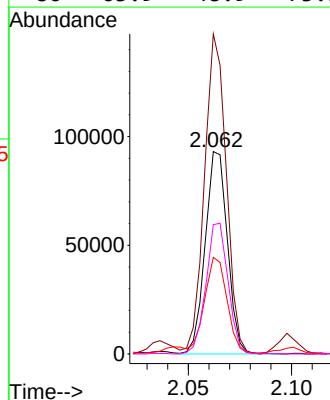
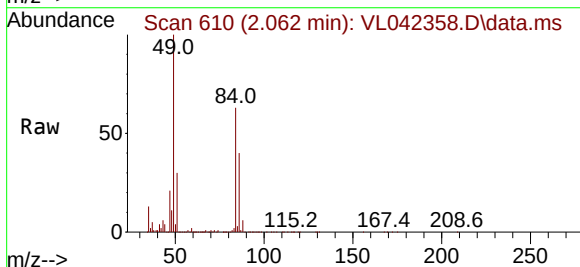
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

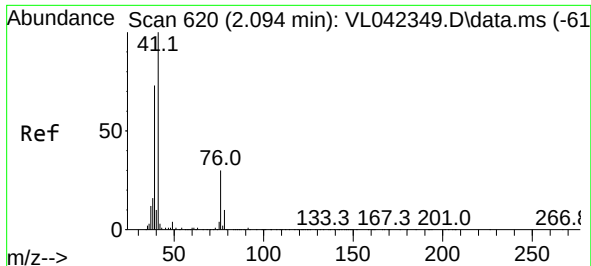
Tgt Ion: 45 Resp: 104123
Ion Ratio Lower Upper
45 100
58 46.9 34.5 51.7



#20
Methylene Chloride
Concen: 8.865 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 84 Resp: 69548
Ion Ratio Lower Upper
84 100
49 156.3 111.6 167.4
51 45.9 35.1 52.7
86 63.9 48.9 73.3

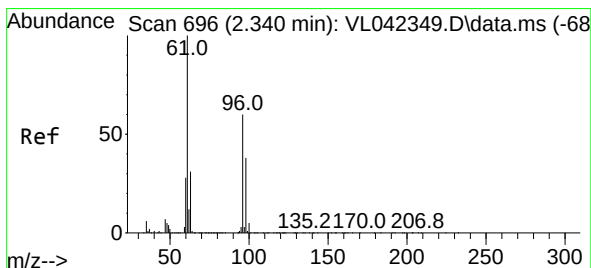
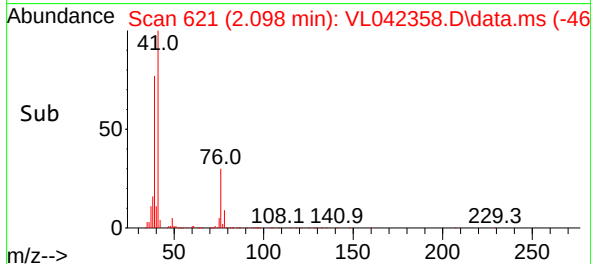
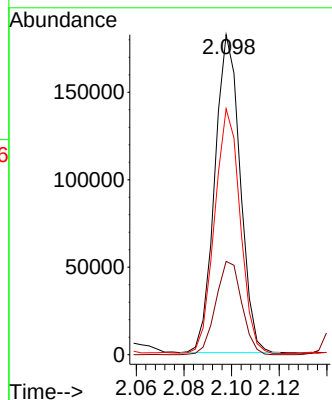
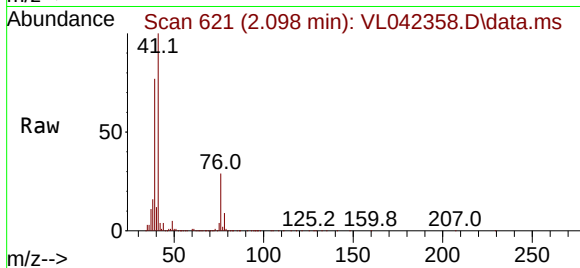




#21
 Allyl Chloride
 Concen: 9.704 ppbv
 RT: 2.098 min Scan# 61
 Delta R.T. 0.003 min
 Lab File: VL042358.D
 Acq: 17 Apr 2025 15:39

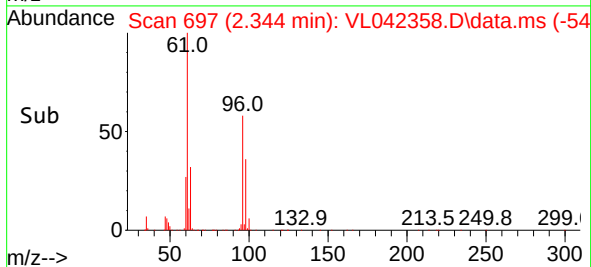
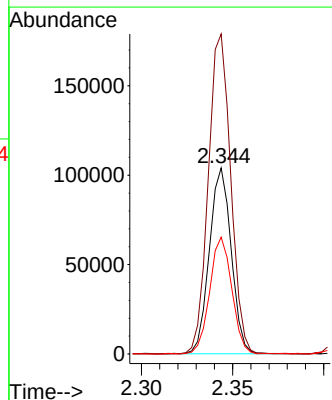
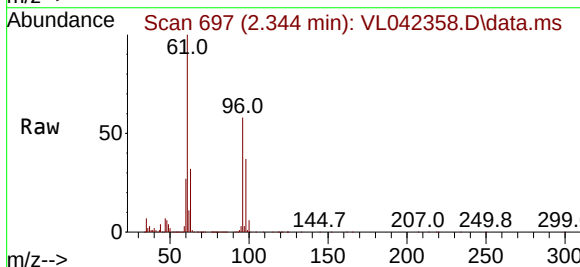
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0417ABS01

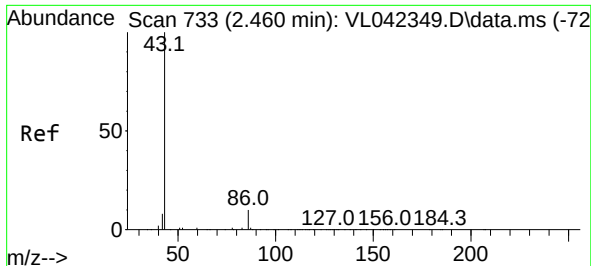
Tgt Ion: 41 Resp: 134221
 Ion Ratio Lower Upper
 41 100
 76 30.1 24.8 37.2
 39 76.8 60.6 90.8



#22
 trans-1,2-Dichloroethene
 Concen: 9.653 ppbv
 RT: 2.344 min Scan# 697
 Delta R.T. 0.003 min
 Lab File: VL042358.D
 Acq: 17 Apr 2025 15:39

Tgt Ion: 96 Resp: 86323
 Ion Ratio Lower Upper
 96 100
 61 172.1 133.7 200.5
 98 62.9 50.3 75.5

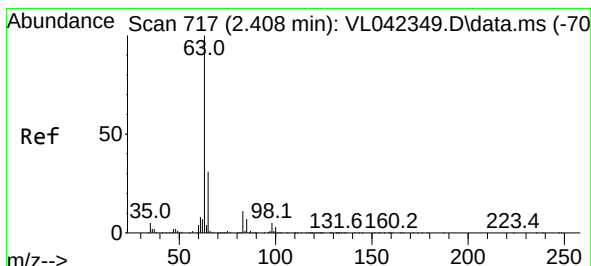
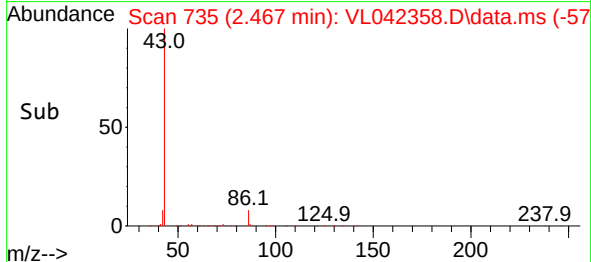
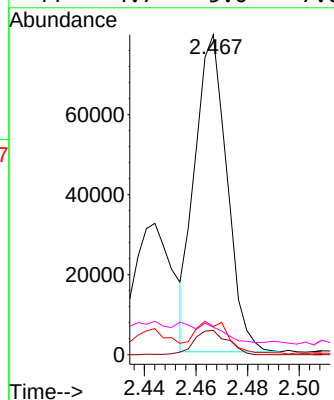
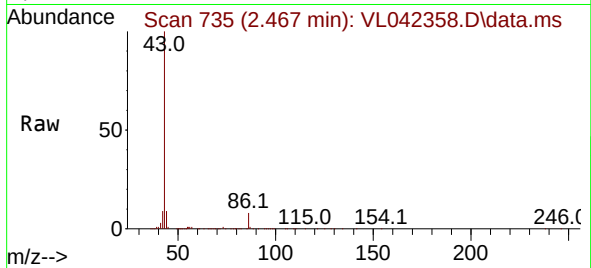




#23
 Vinyl Acetate
 Concen: 8.427 ppbv
 RT: 2.467 min Scan# 718
 Delta R.T. 0.007 min
 Lab File: VL042358.D
 Acq: 17 Apr 2025 15:39

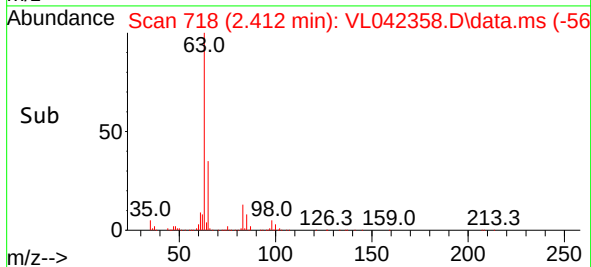
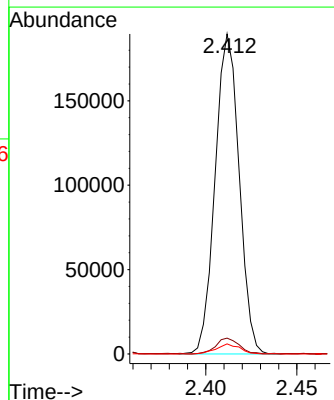
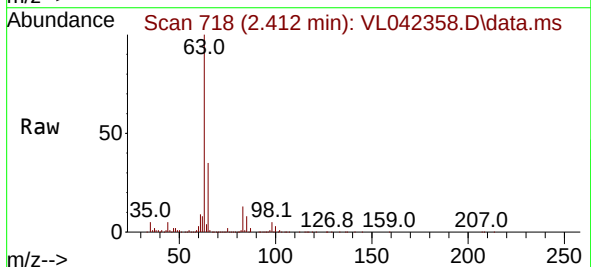
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0417ABS01

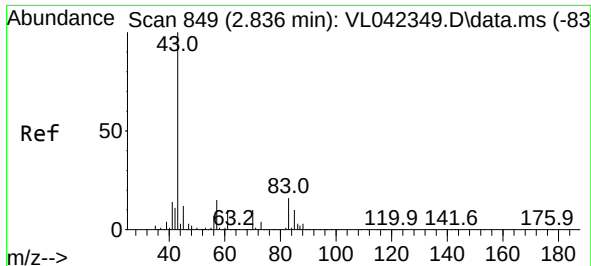
Tgt Ion:	43	Resp:	68337
Ion	Ratio	Lower	Upper
43	100		
86	7.7	6.5	9.7
42	8.3	7.8	11.8
44	4.7	5.0	7.6



#24
 1,1-Dichloroethane
 Concen: 10.199 ppbv
 RT: 2.412 min Scan# 718
 Delta R.T. 0.003 min
 Lab File: VL042358.D
 Acq: 17 Apr 2025 15:39

Tgt Ion:	63	Resp:	173238
Ion	Ratio	Lower	Upper
63	100		
98	4.9	2.3	6.8
100	3.1	1.6	4.8

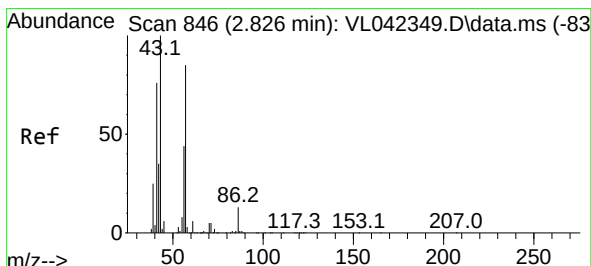
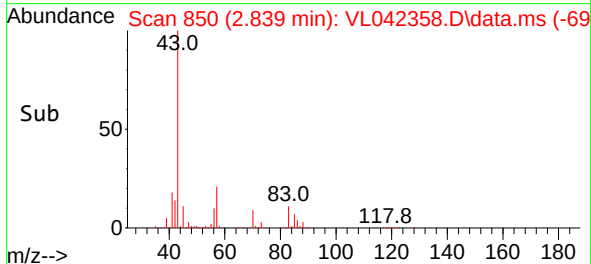
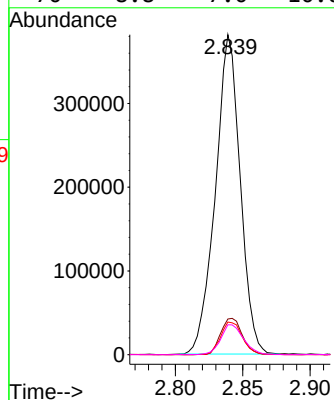
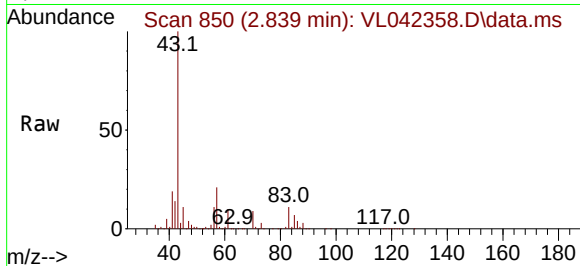




#25
Ethyl Acetate
Concen: 9.894 ppbv
RT: 2.839 min Scan# 849
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

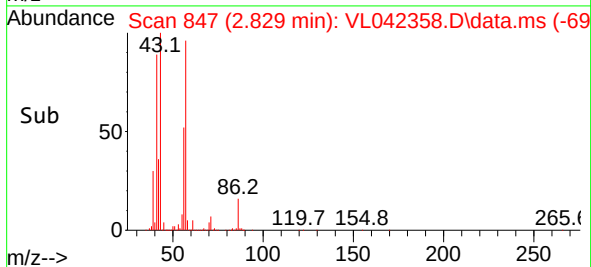
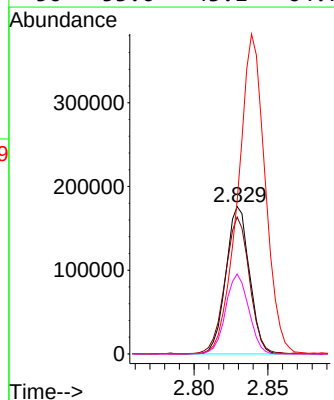
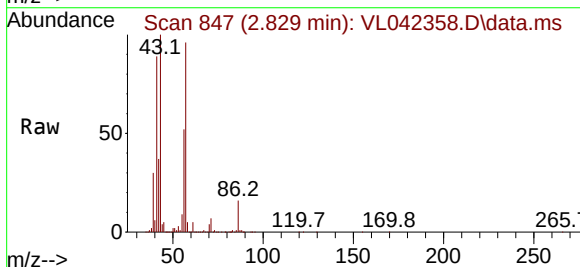
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

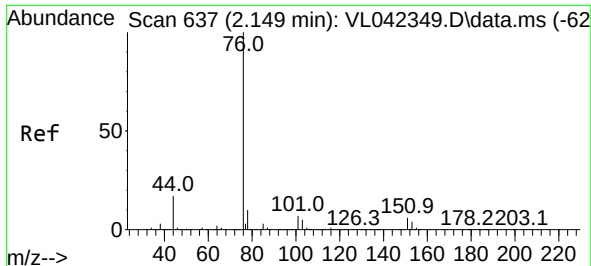
Tgt Ion: 43 Resp: 488686
Ion Ratio Lower Upper
43 100
45 10.1 8.3 12.5
61 9.0 7.3 10.9
70 8.8 7.0 10.6



#26
Hexane
Concen: 9.761 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 57 Resp: 195124
Ion Ratio Lower Upper
57 100
41 96.9 77.9 116.9
43 251.9 208.4 312.6
56 53.6 43.1 64.7





#27

Carbon Disulfide

Concen: 10.202 ppbv

RT: 2.153 min Scan# 61

Delta R.T. 0.003 min

Lab File: VL042358.D

Acq: 17 Apr 2025 15:39

Instrument :

MSVOA_L

ClientSampleId :

VL0417ABS01

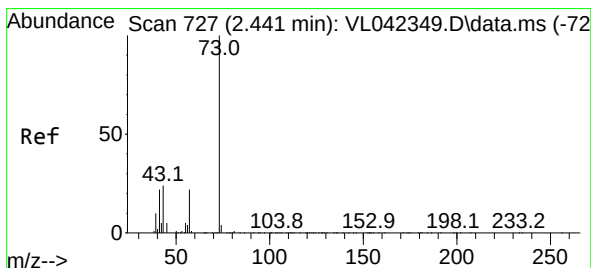
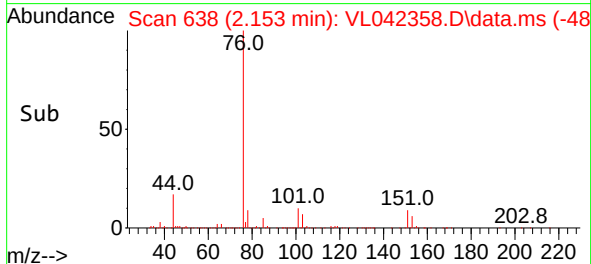
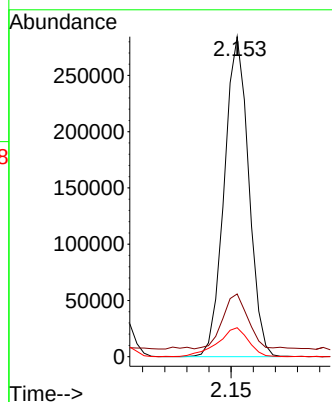
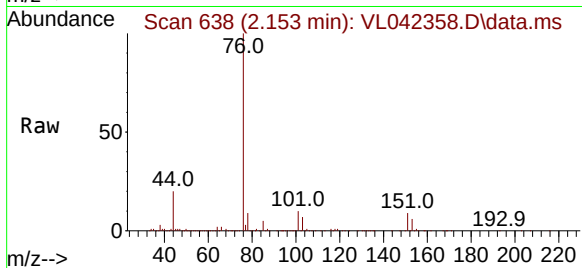
Tgt Ion: 76 Resp: 218345

Ion Ratio Lower Upper

76 100

44 21.6 15.5 23.3

78 11.4 9.3 13.9



#28

Methyl tert-Butyl Ether

Concen: 9.510 ppbv

RT: 2.444 min Scan# 728

Delta R.T. 0.003 min

Lab File: VL042358.D

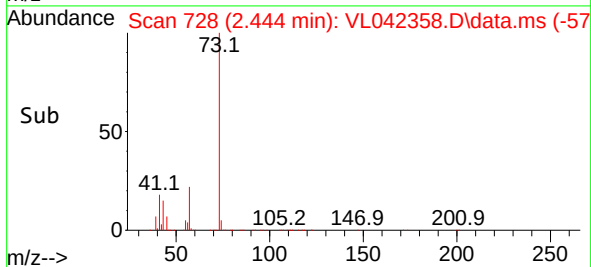
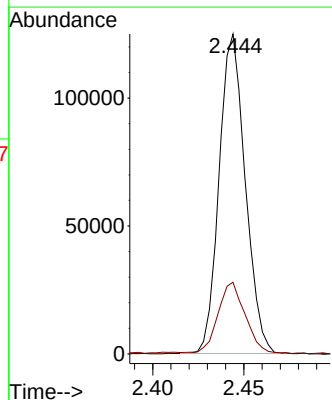
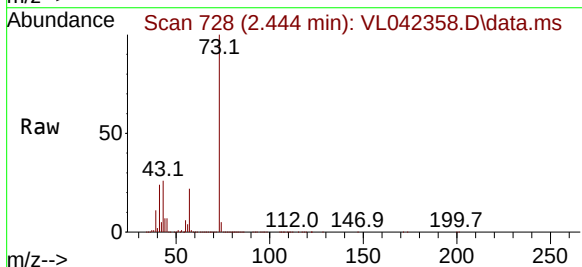
Acq: 17 Apr 2025 15:39

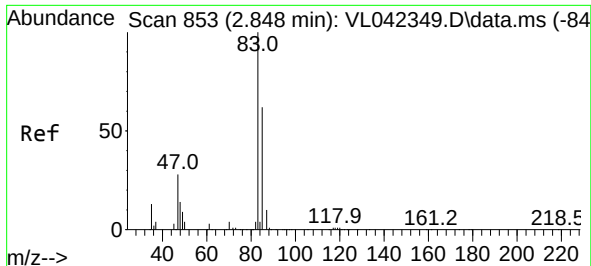
Tgt Ion: 73 Resp: 124554

Ion Ratio Lower Upper

73 100

57 24.5 21.3 31.9





#29

Chloroform

Concen: 10.239 ppbv

RT: 2.852 min Scan# 854

Delta R.T. 0.003 min

Lab File: VL042358.D

Acq: 17 Apr 2025 15:39

Instrument :

MSVOA_L

ClientSampleId :

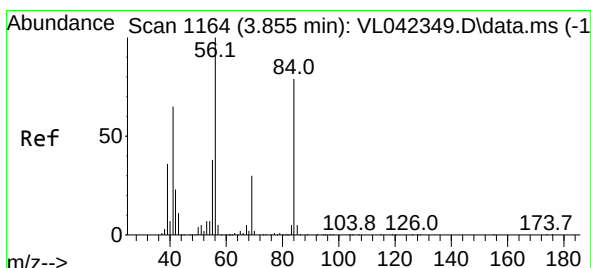
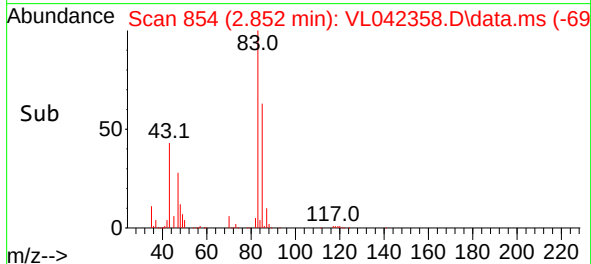
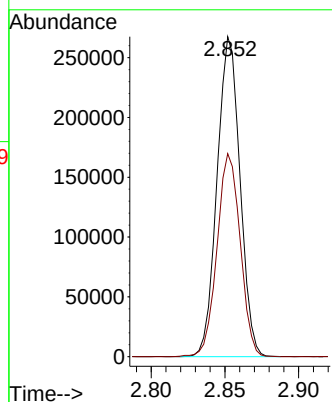
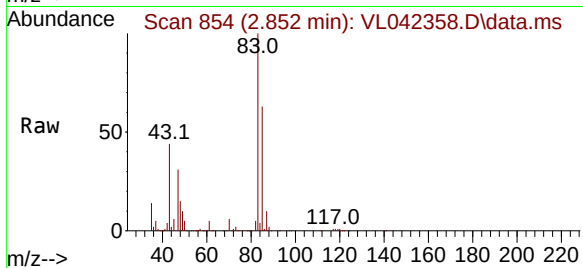
VL0417ABS01

Tgt Ion: 83 Resp: 289294

Ion Ratio Lower Upper

83 100

85 63.4 50.0 75.0



#30

Cyclohexane

Concen: 10.088 ppbv

RT: 3.862 min Scan# 1166

Delta R.T. 0.007 min

Lab File: VL042358.D

Acq: 17 Apr 2025 15:39

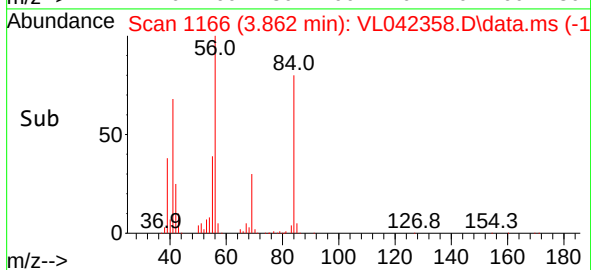
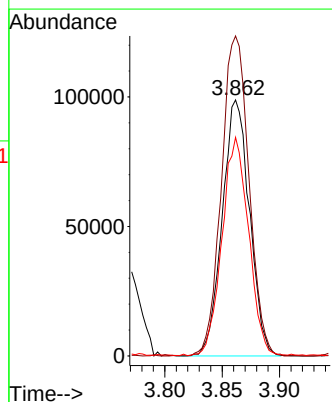
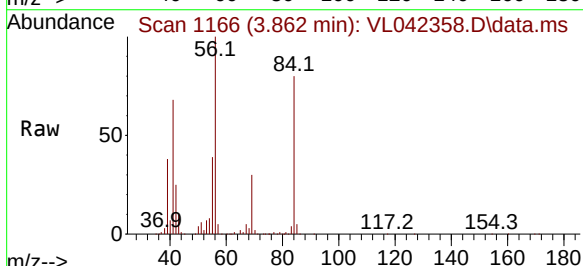
Tgt Ion: 84 Resp: 163017

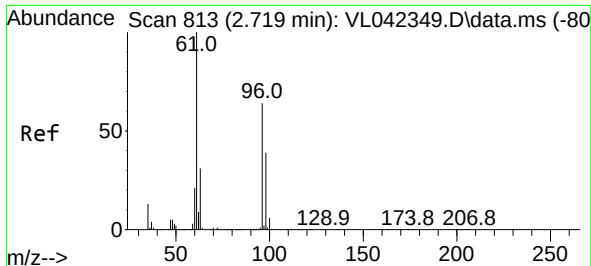
Ion Ratio Lower Upper

84 100

56 126.7 101.0 151.4

41 83.8 67.4 101.0

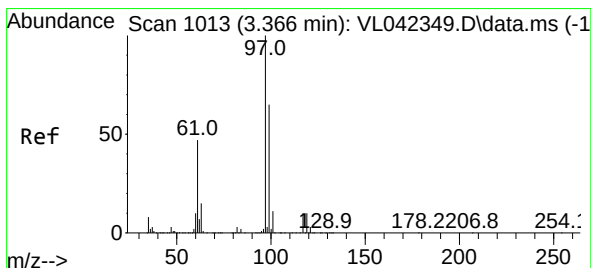
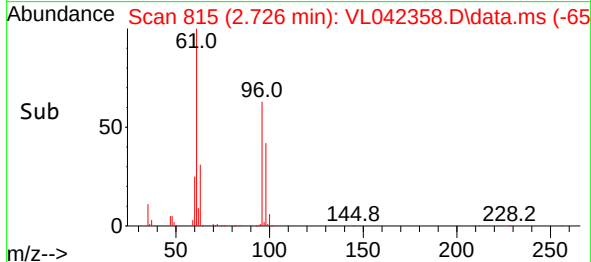
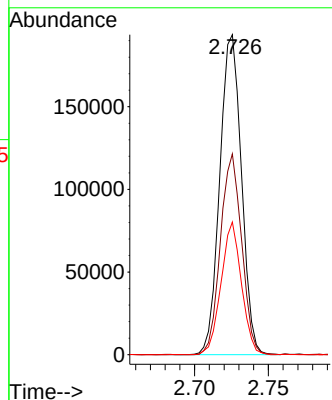
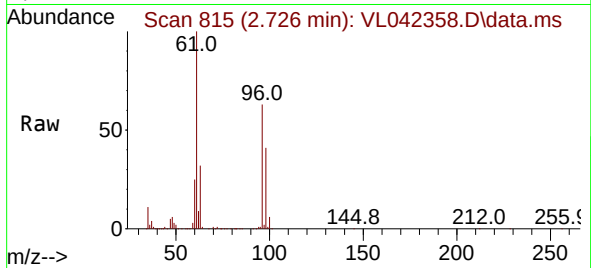




#31
 cis-1,2-Dichloroethene
 Concen: 10.424 ppbv
 RT: 2.726 min Scan# 81
 Delta R.T. 0.007 min
 Lab File: VL042358.D
 Acq: 17 Apr 2025 15:39

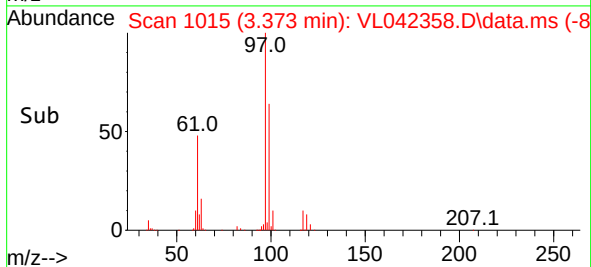
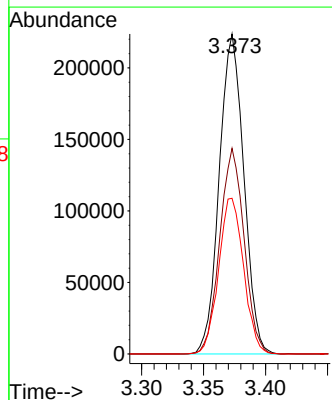
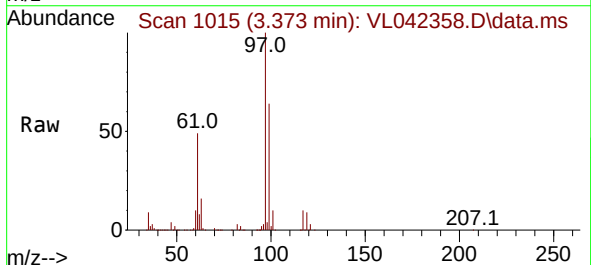
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0417ABS01

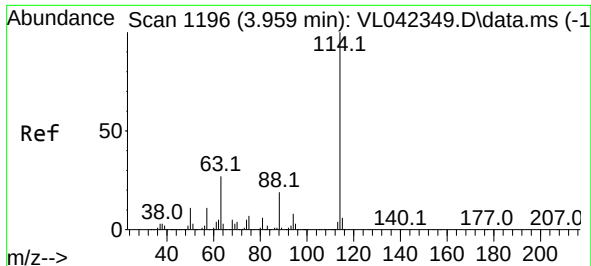
Tgt Ion: 61 Resp: 198108
 Ion Ratio Lower Upper
 61 100
 96 62.8 50.8 76.2
 98 41.4 30.9 46.3



#32
 1,1,1-Trichloroethane
 Concen: 9.729 ppbv
 RT: 3.373 min Scan# 1015
 Delta R.T. 0.007 min
 Lab File: VL042358.D
 Acq: 17 Apr 2025 15:39

Tgt Ion: 97 Resp: 309460
 Ion Ratio Lower Upper
 97 100
 99 63.7 51.0 76.4
 61 49.5 38.8 58.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.965 min Scan# 1196

Delta R.T. 0.007 min

Lab File: VL042358.D

Acq: 17 Apr 2025 15:39

Instrument :

MSVOA_1

ClientSampleId :

VL0417ABS01

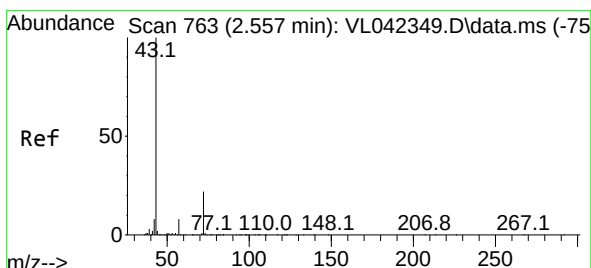
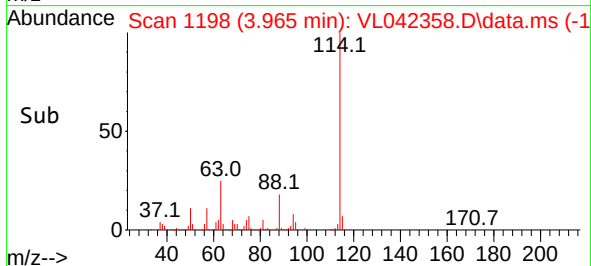
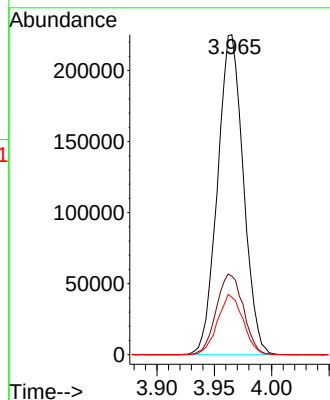
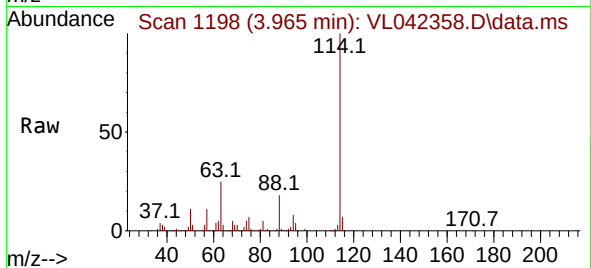
Tgt Ion:114 Resp: 352201

Ion Ratio Lower Upper

114 100

63 26.4 21.8 32.6

88 18.6 15.5 23.3



#34

2-Butanone

Concen: 9.787 ppbv

RT: 2.561 min Scan# 764

Delta R.T. 0.003 min

Lab File: VL042358.D

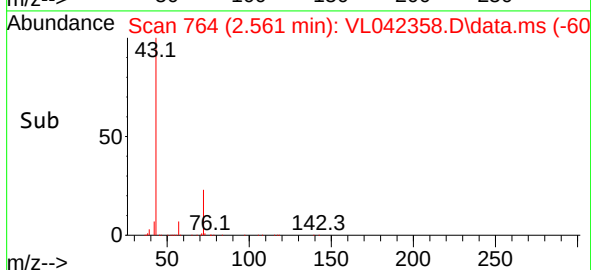
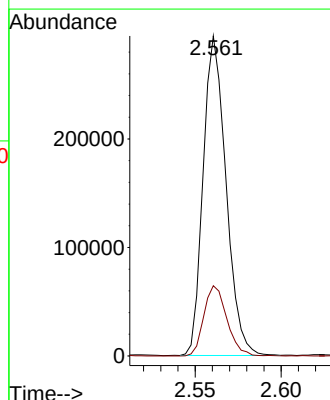
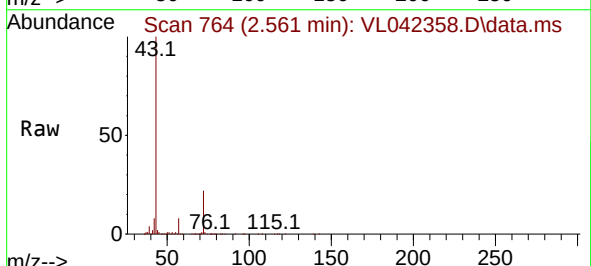
Acq: 17 Apr 2025 15:39

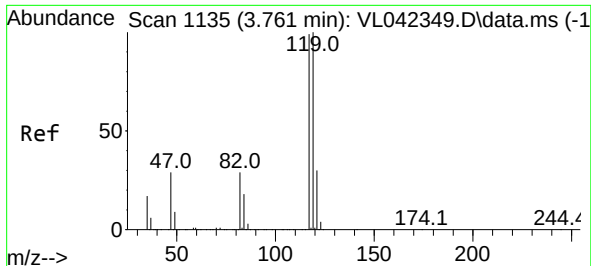
Tgt Ion: 43 Resp: 272600

Ion Ratio Lower Upper

43 100

72 22.2 18.2 27.2

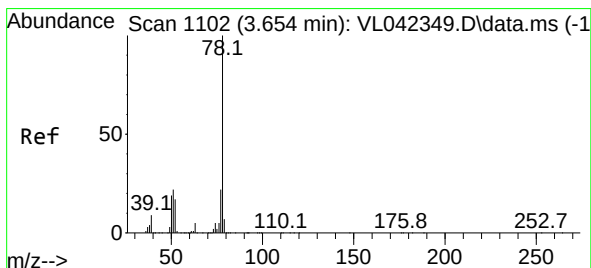
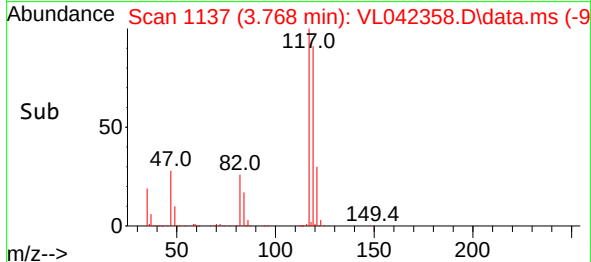
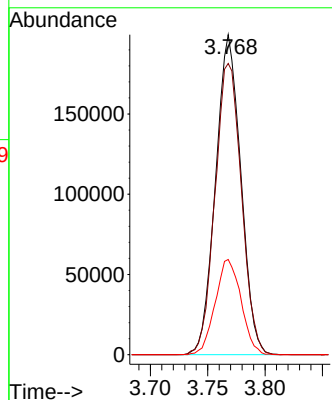
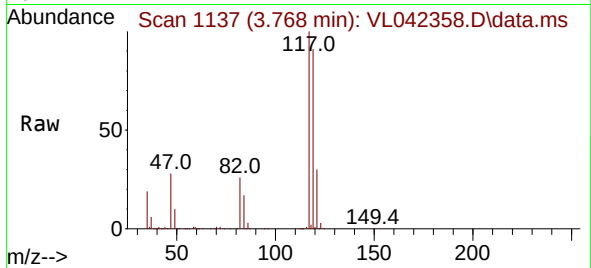




#35
Carbon Tetrachloride
Concen: 9.576 ppbv
RT: 3.768 min Scan# 1135
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

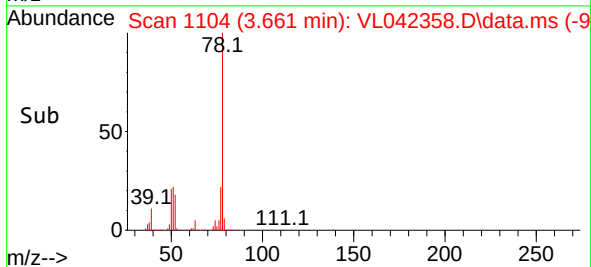
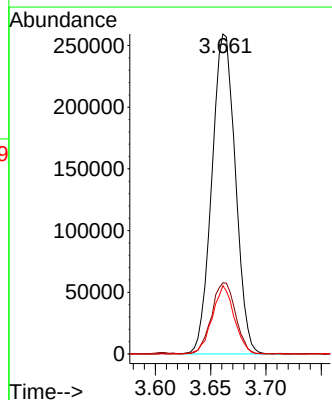
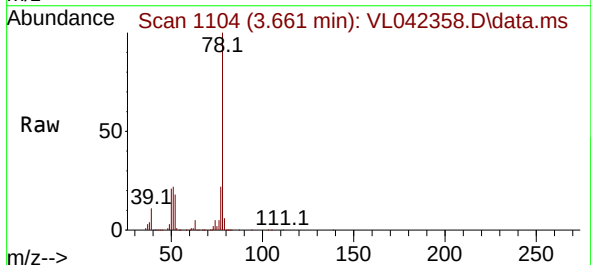
Instrument :
MSVOA_1
ClientSampleId :
VL0417ABS01

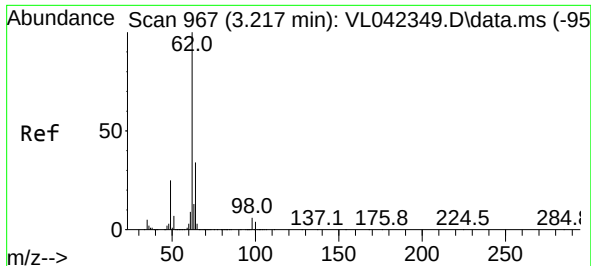
Tgt Ion:117 Resp: 305245
Ion Ratio Lower Upper
117 100
119 91.0 80.5 120.7
121 29.8 24.2 36.2



#36
Benzene
Concen: 10.088 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 78 Resp: 383239
Ion Ratio Lower Upper
78 100
77 22.1 17.4 26.0
50 21.3 15.5 23.3





#37

1,2-Dichloroethane

Concen: 10.377 ppbv

RT: 3.224 min Scan# 9

Delta R.T. 0.007 min

Lab File: VL042358.D

Acq: 17 Apr 2025 15:39

Instrument :

MSVOA_1

ClientSampleId :

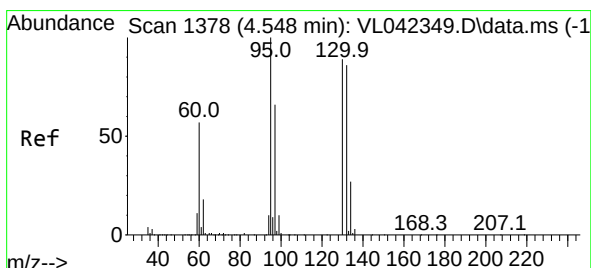
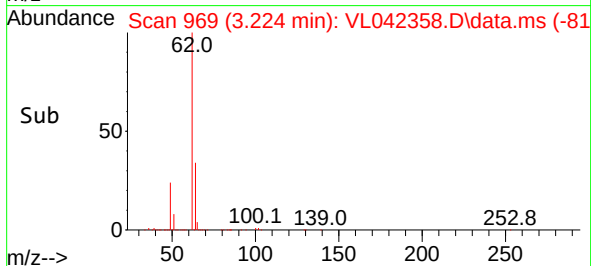
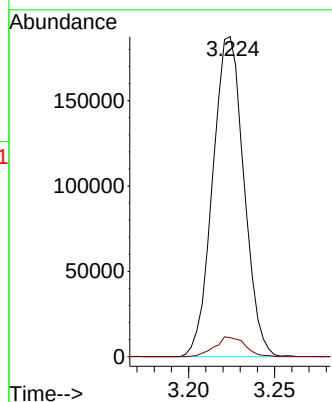
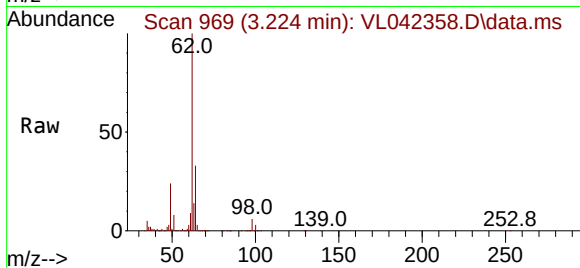
VL0417ABS01

Tgt Ion: 62 Resp: 236611

Ion Ratio Lower Upper

62 100

98 6.0 5.1 7.7



#38

Trichloroethene

Concen: 9.251 ppbv

RT: 4.558 min Scan# 1381

Delta R.T. 0.010 min

Lab File: VL042358.D

Acq: 17 Apr 2025 15:39

Tgt Ion:130 Resp: 153596

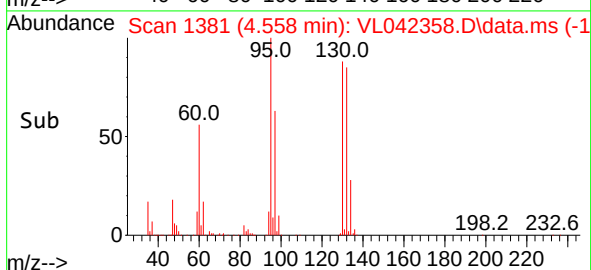
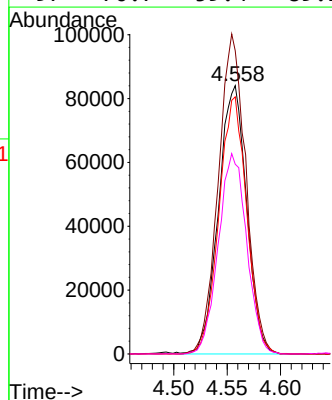
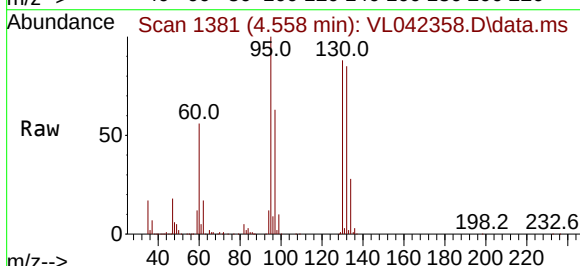
Ion Ratio Lower Upper

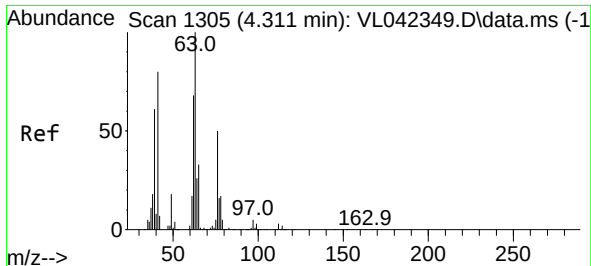
130 100

95 113.0 89.8 134.6

132 95.8 77.7 116.5

97 70.7 59.4 89.2





#39

1,2-Dichloropropane

Concen: 9.866 ppbv

RT: 4.321 min Scan# 11

Delta R.T. 0.010 min

Lab File: VL042358.D

Acq: 17 Apr 2025 15:39

Instrument :

MSVOA_L

ClientSampleId :

VL0417ABS01

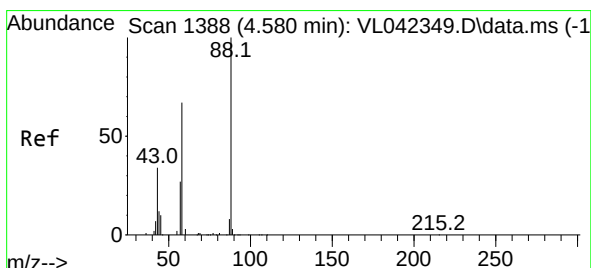
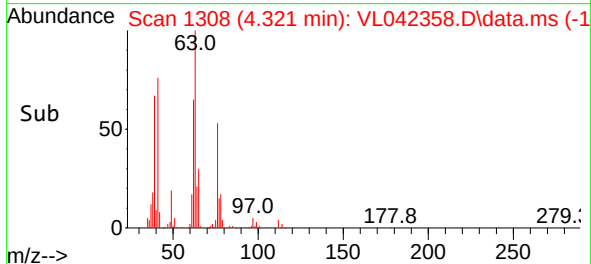
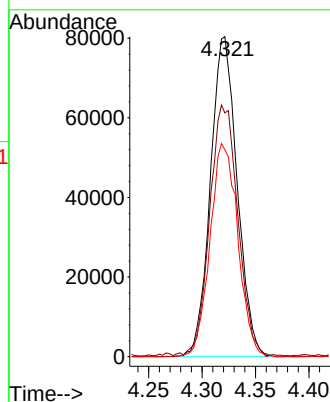
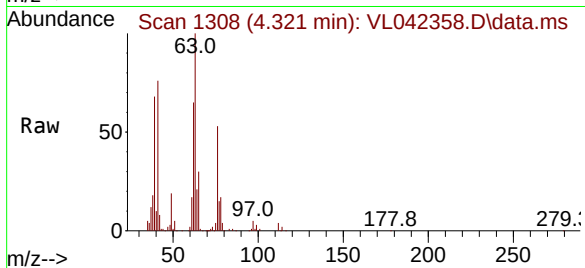
Tgt Ion: 63 Resp: 139669

Ion Ratio Lower Upper

63 100

41 75.7 64.2 96.2

62 64.6 54.3 81.5



#40

1,4-Dioxane

Concen: 8.716 ppbv

RT: 4.590 min Scan# 1391

Delta R.T. 0.010 min

Lab File: VL042358.D

Acq: 17 Apr 2025 15:39

Tgt Ion: 88 Resp: 67808

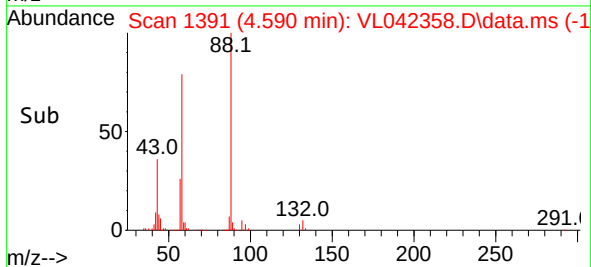
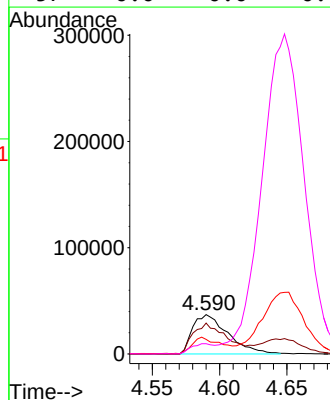
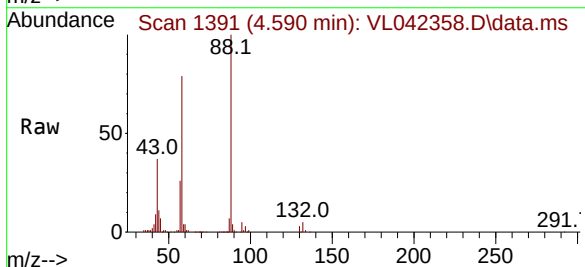
Ion Ratio Lower Upper

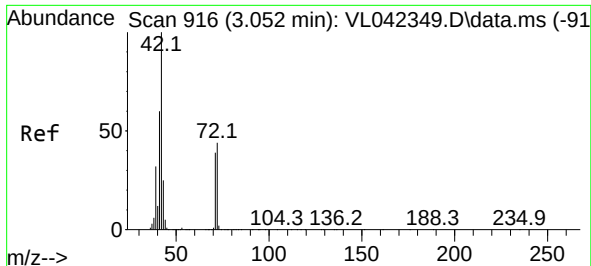
88 100

58 75.4 61.4 92.0

43 37.1 23.2 34.8#

57 0.0 0.0 0.0

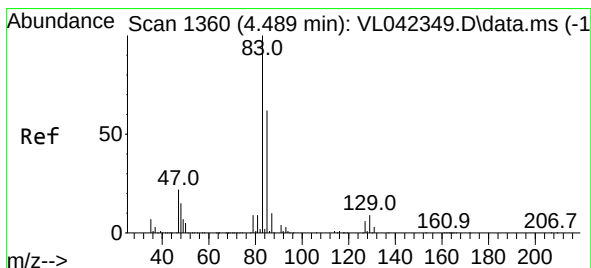
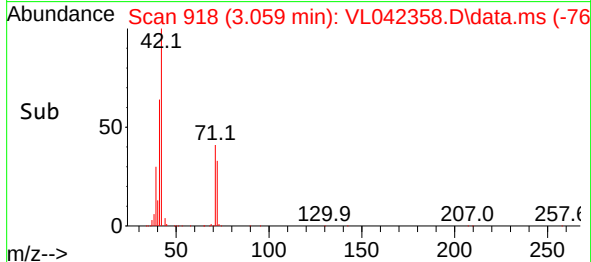
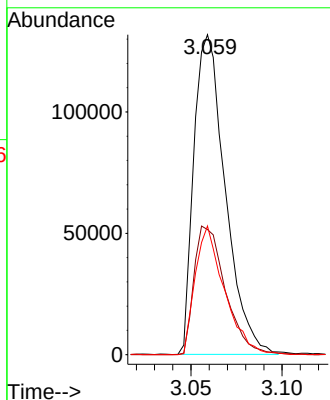
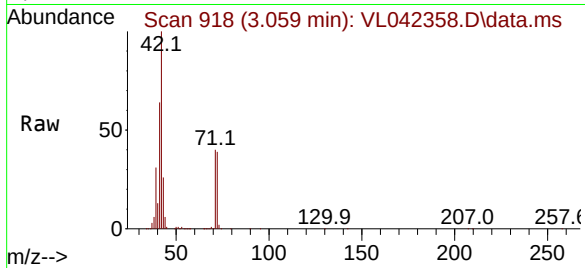




#41
Tetrahydrofuran
Concen: 9.715 ppbv
RT: 3.059 min Scan# 916
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

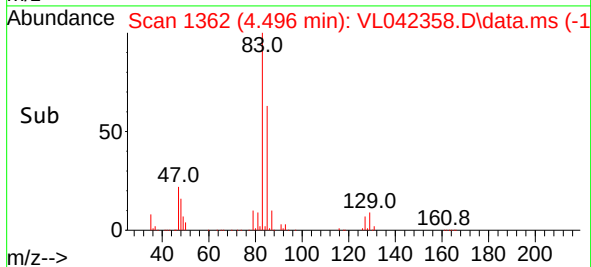
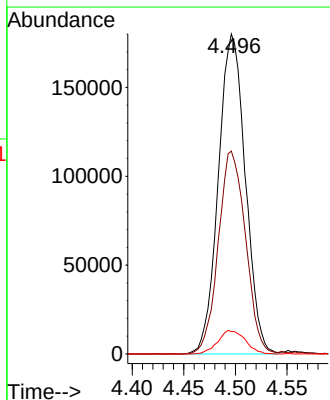
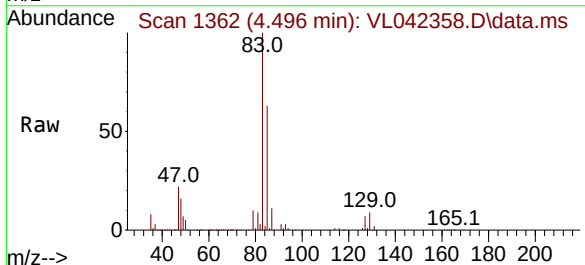
Instrument :
MSVOA_1
ClientSampleId :
VL0417ABS01

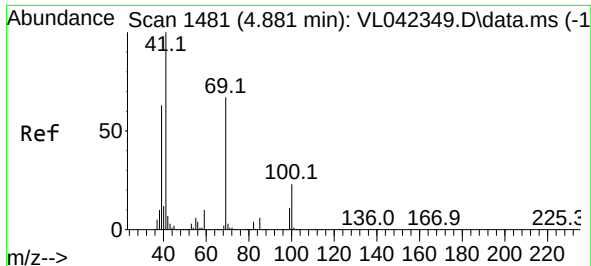
Tgt Ion: 42 Resp: 157777
Ion Ratio Lower Upper
42 100
72 40.3 32.3 48.5
71 37.7 31.4 47.2



#42
Bromodichloromethane
Concen: 10.326 ppbv
RT: 4.496 min Scan# 1362
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 83 Resp: 327652
Ion Ratio Lower Upper
83 100
85 63.3 49.7 74.5
127 7.0 5.1 7.7

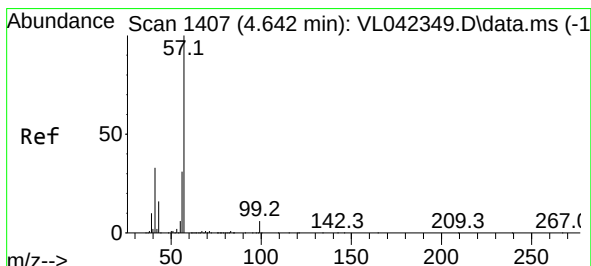
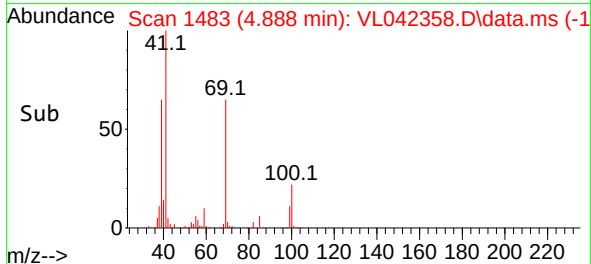
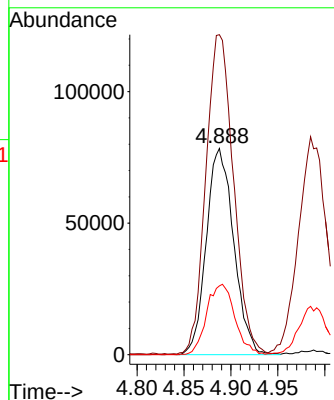
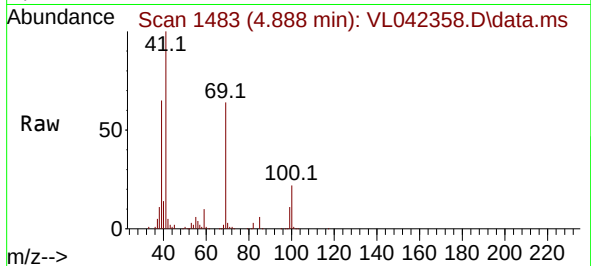




#43
Methyl Methacrylate
Concen: 9.304 ppbv
RT: 4.888 min Scan# 1481
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

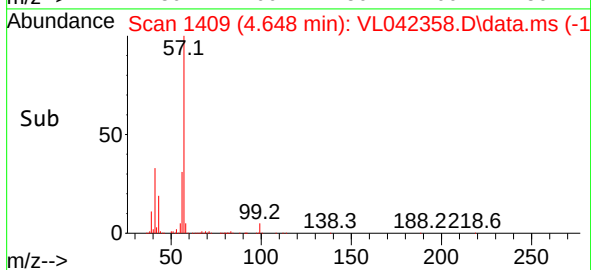
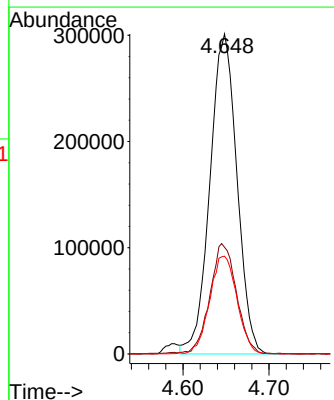
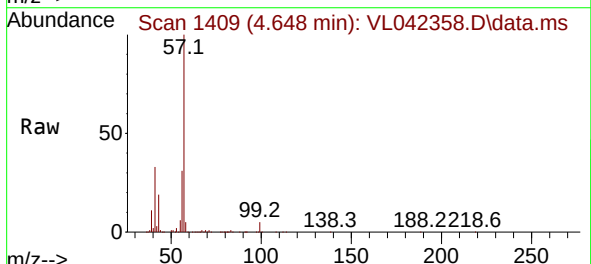
Instrument :
MSVOA_1
ClientSampleId :
VL0417ABS01

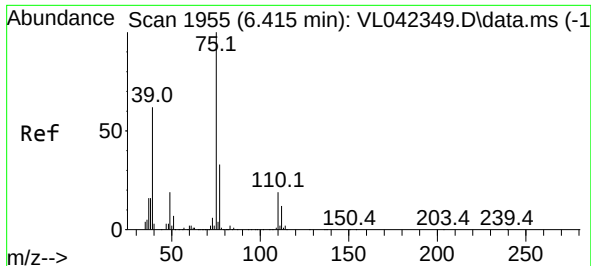
Tgt Ion: 69 Resp: 159292
Ion Ratio Lower Upper
69 100
41 155.9 118.6 177.8
100 35.1 28.2 42.2



#44
2,2,4-Trimethylpentane
Concen: 10.019 ppbv
RT: 4.648 min Scan# 1409
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 57 Resp: 657377
Ion Ratio Lower Upper
57 100
41 34.2 27.2 40.8
56 31.1 25.7 38.5

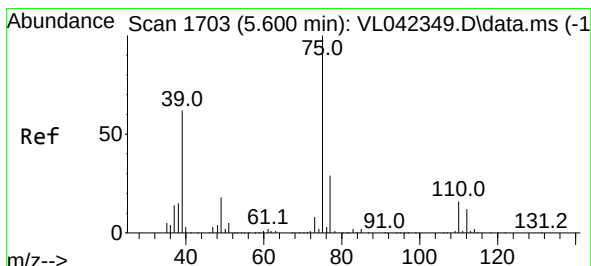
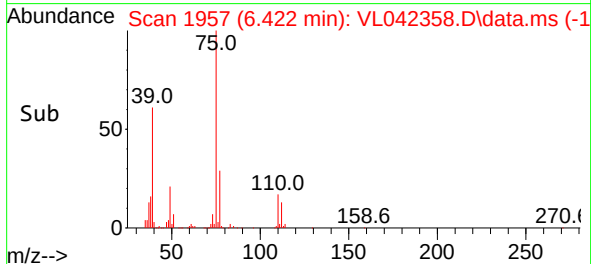
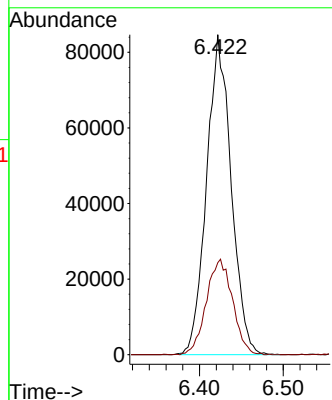
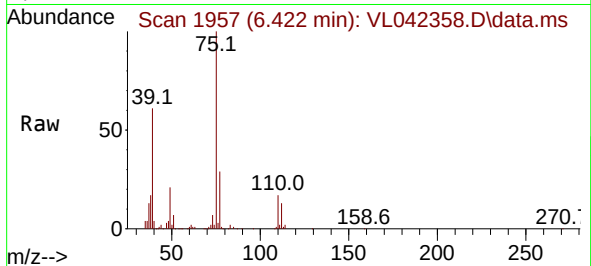




#45
 t-1,3-Dichloropropene
 Concen: 9.864 ppbv
 RT: 6.422 min Scan# 1957
 Delta R.T. 0.007 min
 Lab File: VL042358.D
 Acq: 17 Apr 2025 15:39

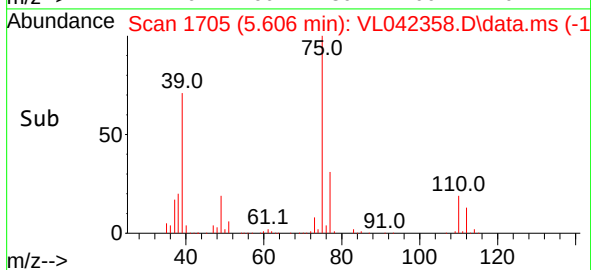
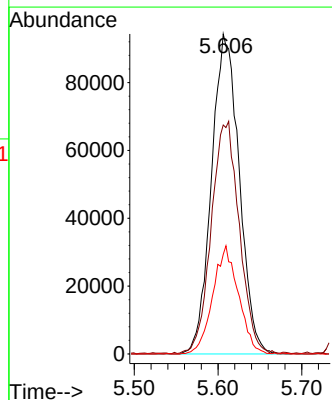
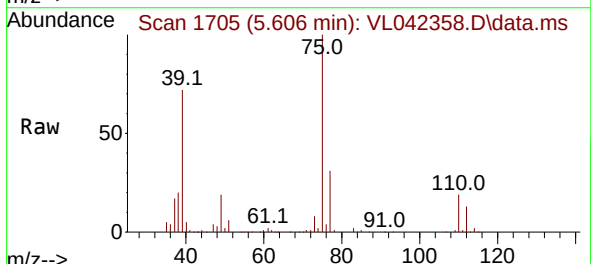
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0417ABS01

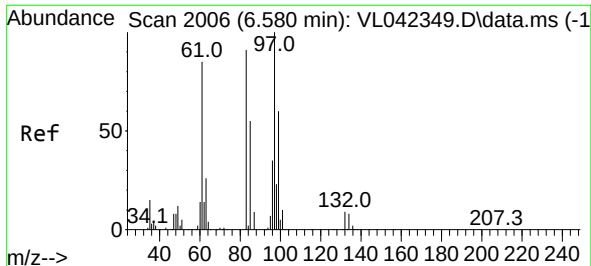
Tgt Ion: 75 Resp: 172514
 Ion Ratio Lower Upper
 75 100
 77 28.7 27.0 40.6



#46
 cis-1,3-Dichloropropene
 Concen: 10.133 ppbv
 RT: 5.606 min Scan# 1705
 Delta R.T. 0.007 min
 Lab File: VL042358.D
 Acq: 17 Apr 2025 15:39

Tgt Ion: 75 Resp: 216901
 Ion Ratio Lower Upper
 75 100
 39 71.3 50.0 75.0
 77 31.1 23.0 34.6

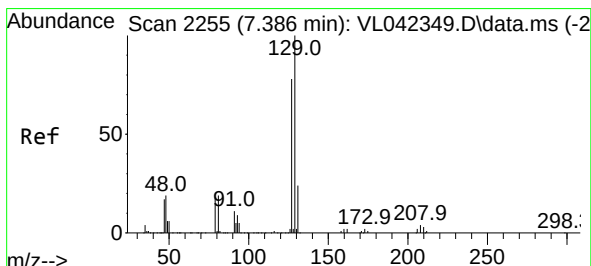
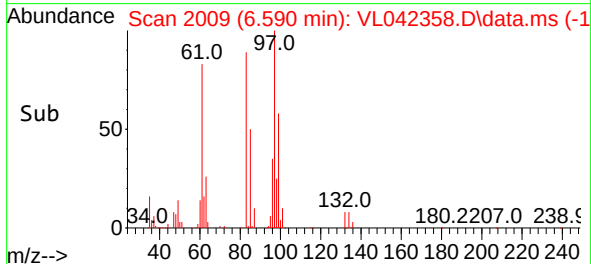
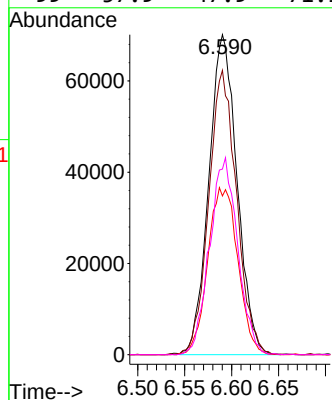
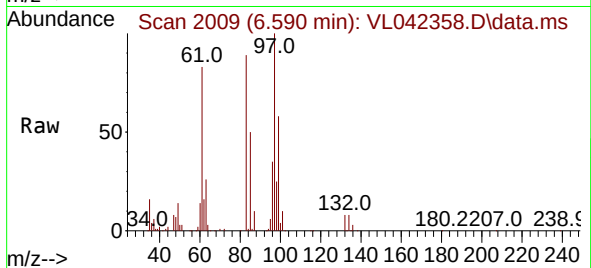




#47
1,1,2-Trichloroethane
Concen: 10.161 ppbv
RT: 6.590 min Scan# 2006
Delta R.T. 0.010 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

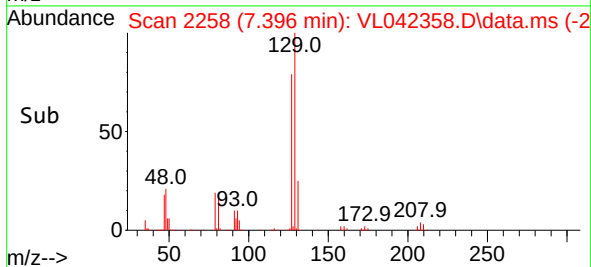
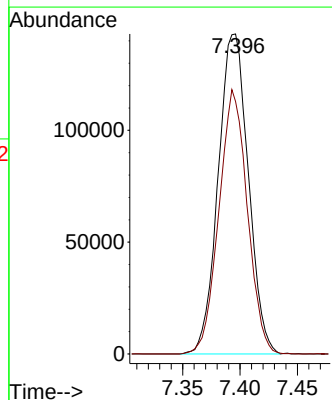
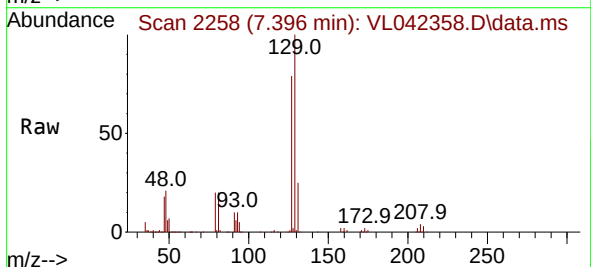
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

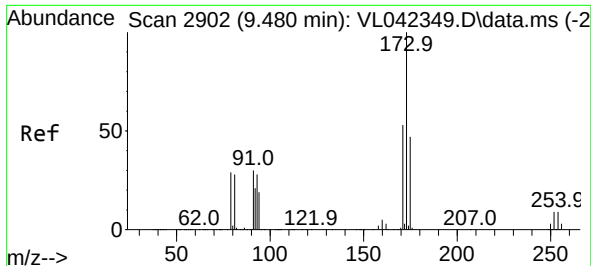
Tgt Ion: 97 Resp: 146547
Ion Ratio Lower Upper
97 100
83 88.7 72.8 109.2
85 49.6 44.2 66.4
99 57.9 47.9 71.9



#48
Dibromochloromethane
Concen: 10.261 ppbv
RT: 7.396 min Scan# 2258
Delta R.T. 0.010 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 129 Resp: 261470
Ion Ratio Lower Upper
129 100
127 77.9 39.1 117.3

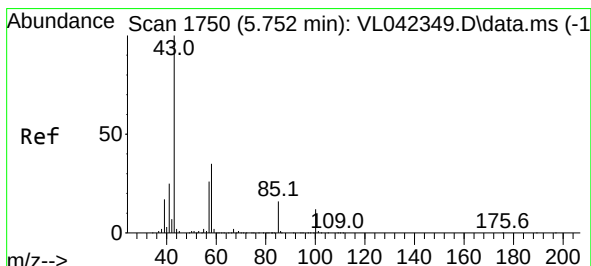
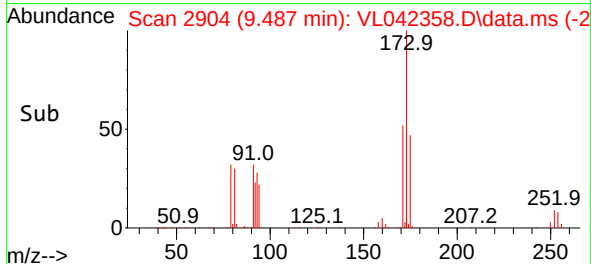
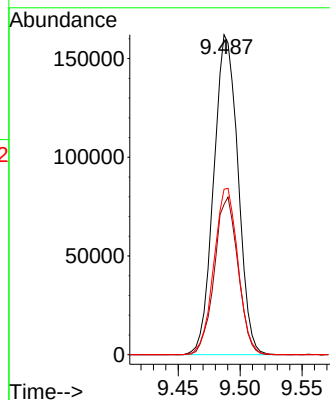
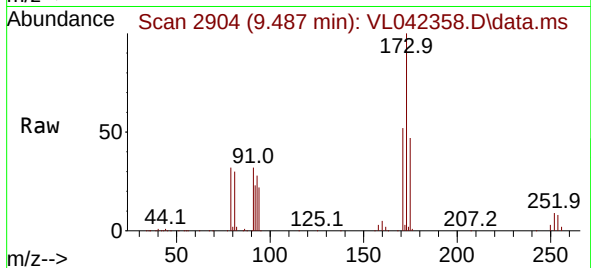




#49
Bromoform
Concen: 9.936 ppbv
RT: 9.487 min Scan# 2904
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

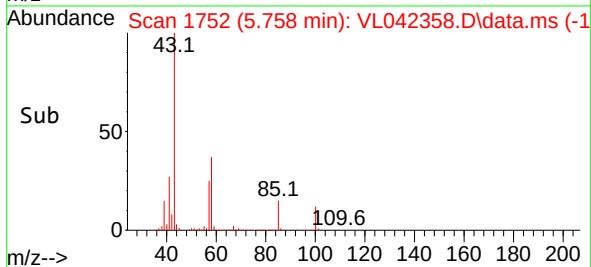
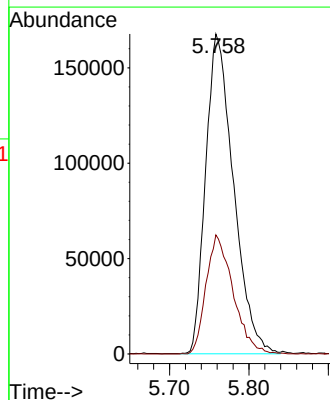
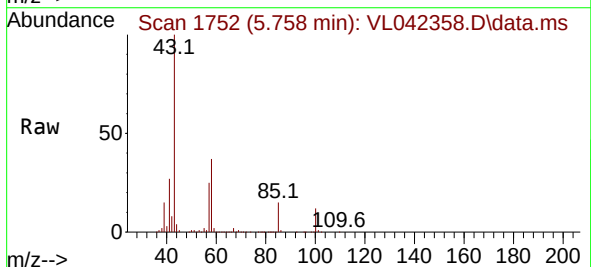
Instrument :
MSVOA_1
ClientSampleId :
VL0417ABS01

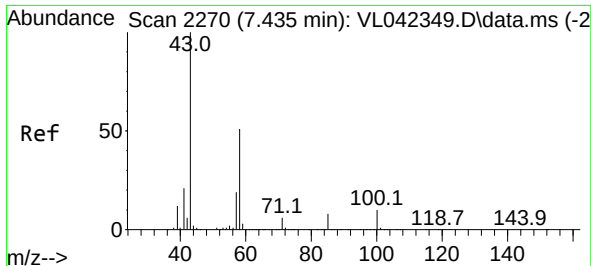
Tgt Ion:173 Resp: 221372
Ion Ratio Lower Upper
173 100
175 48.0 38.2 57.2
171 51.7 40.9 61.3



#50
4-Methyl-2-Pentanone
Concen: 8.810 ppbv
RT: 5.758 min Scan# 1752
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 43 Resp: 407804
Ion Ratio Lower Upper
43 100
58 36.2 28.6 43.0

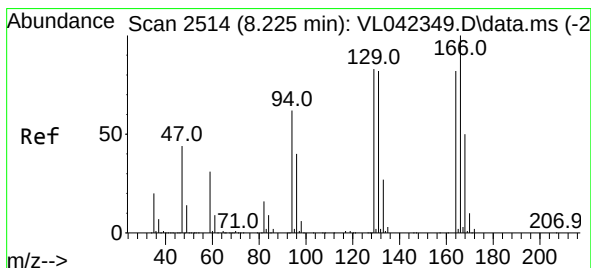
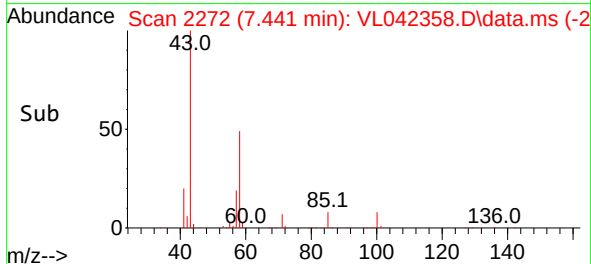
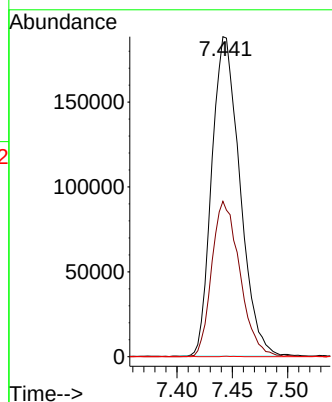
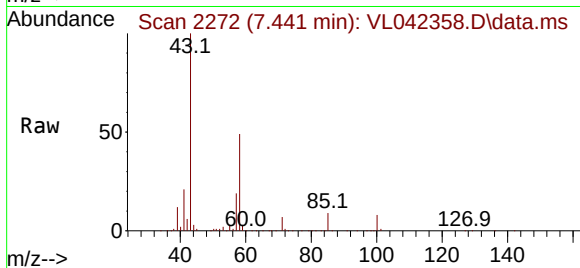




#51
2-Hexanone
Concen: 8.013 ppbv
RT: 7.441 min Scan# 21
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

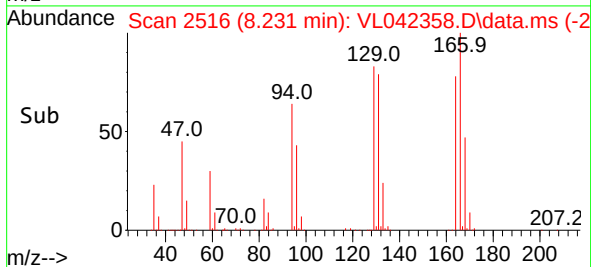
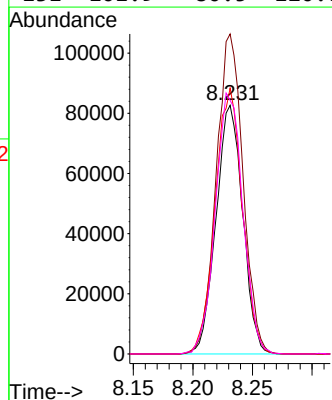
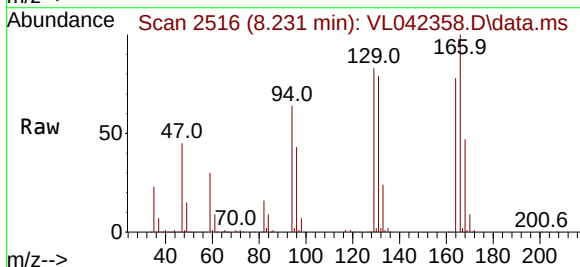
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

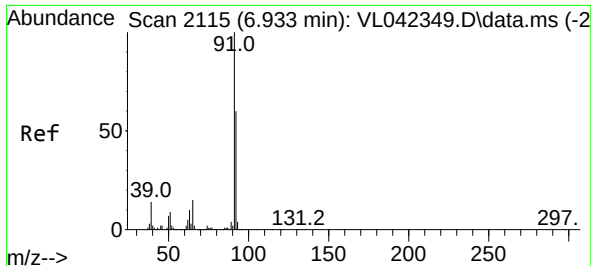
Tgt Ion: 43 Resp: 332646
Ion Ratio Lower Upper
43 100
58 48.6 40.2 60.4
98 0.1 0.1 0.1#



#52
Tetrachloroethene
Concen: 8.763 ppbv
RT: 8.231 min Scan# 2516
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 164 Resp: 128670
Ion Ratio Lower Upper
164 100
166 128.7 98.2 147.2
129 106.9 81.8 122.8
131 101.9 80.5 120.7

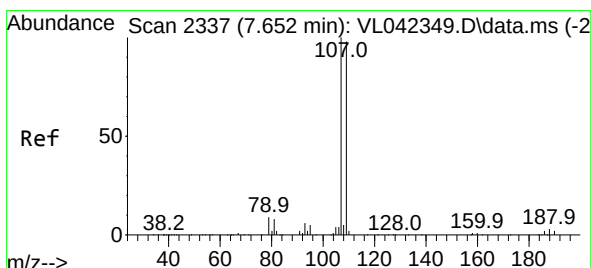
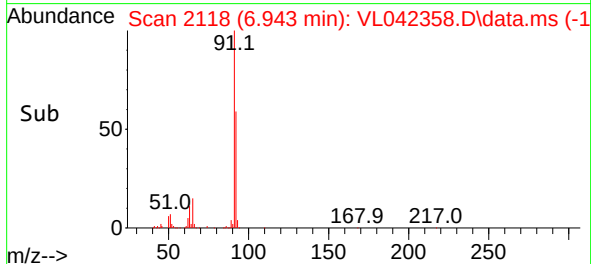
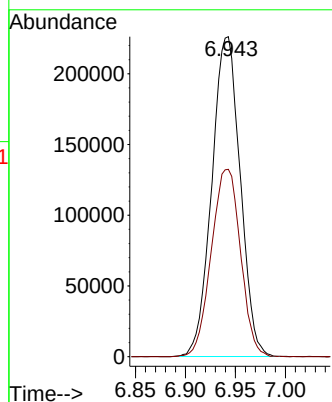
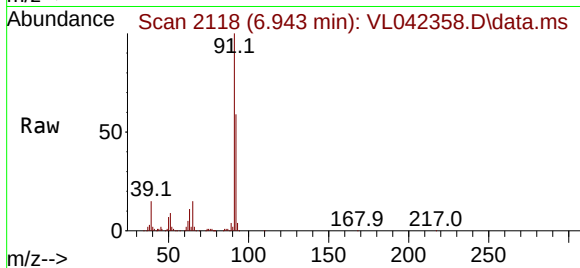




#53
Toluene
Concen: 9.818 ppbv
RT: 6.943 min Scan# 2115
Delta R.T. 0.010 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

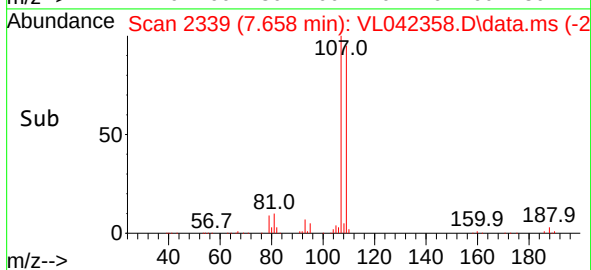
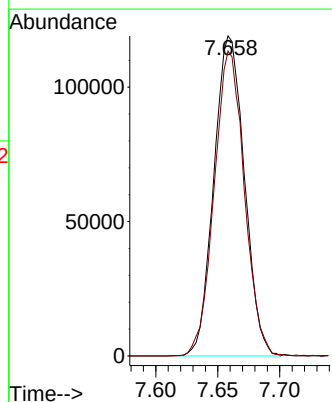
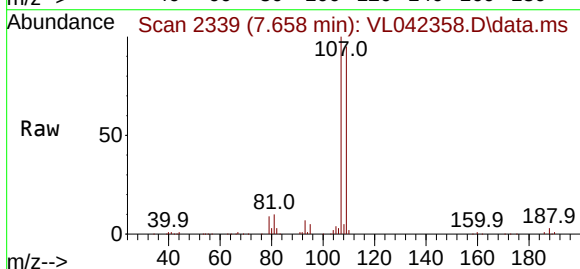
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

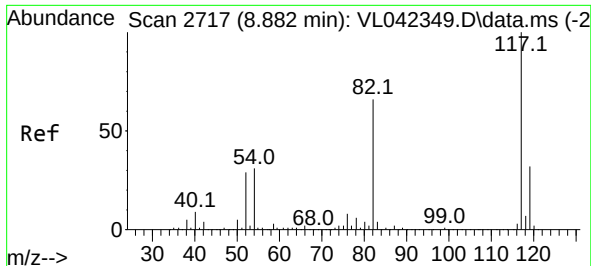
Tgt Ion: 91 Resp: 447581
Ion Ratio Lower Upper
91 100
92 60.3 48.2 72.4



#54
1,2-Dibromoethane
Concen: 9.899 ppbv
RT: 7.658 min Scan# 2339
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 107 Resp: 204328
Ion Ratio Lower Upper
107 100
109 95.1 78.2 117.4

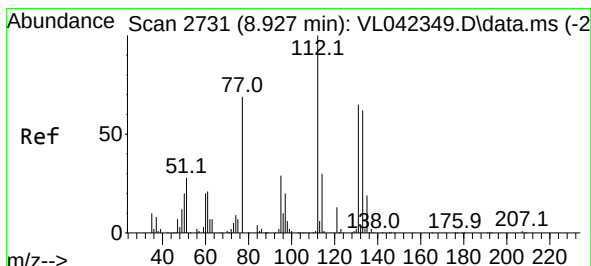
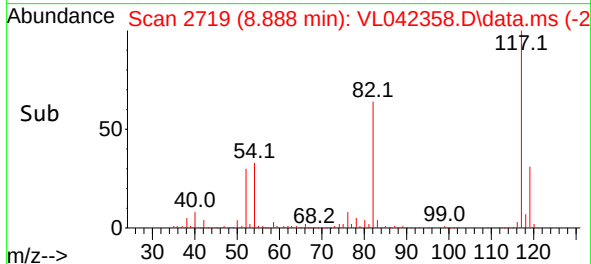
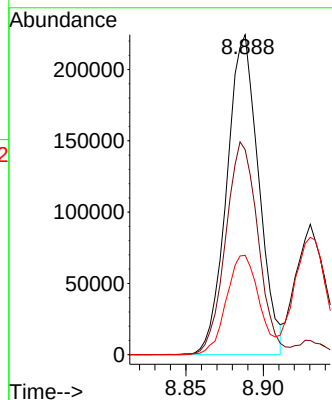
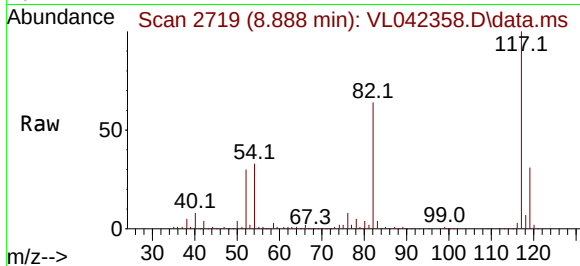




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2718
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

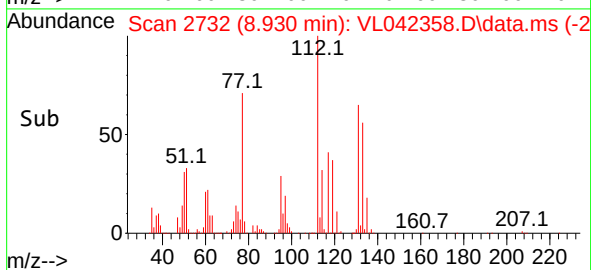
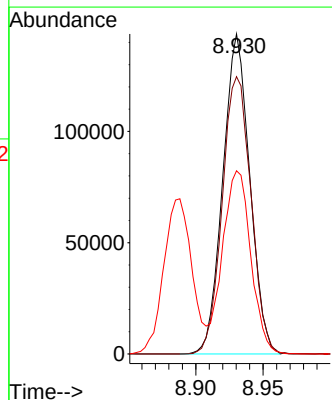
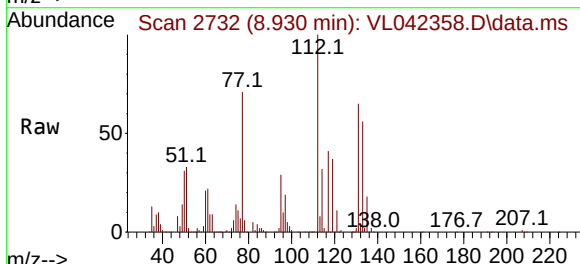
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

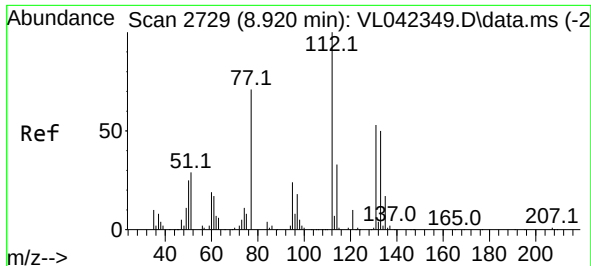
Tgt Ion:117 Resp: 321521
Ion Ratio Lower Upper
117 100
82 71.8 57.8 86.6
119 32.5 25.2 37.8



#56
1,1,1,2-Tetrachloroethane
Concen: 10.275 ppbv
RT: 8.930 min Scan# 2732
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:131 Resp: 199945
Ion Ratio Lower Upper
131 100
133 92.5 78.3 117.5
119 60.2 48.7 73.1





#57

Chlorobenzene

Concen: 10.022 ppbv

RT: 8.927 min Scan# 21

Delta R.T. 0.007 min

Lab File: VL042358.D

Acq: 17 Apr 2025 15:39

Instrument :

MSVOA_L

ClientSampleId :

VL0417ABS01

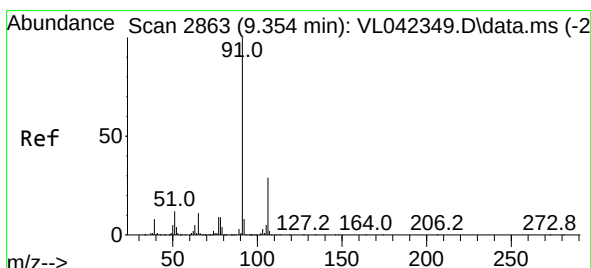
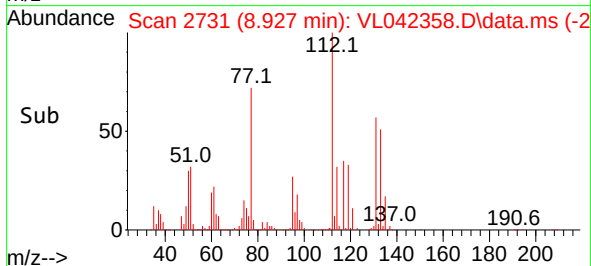
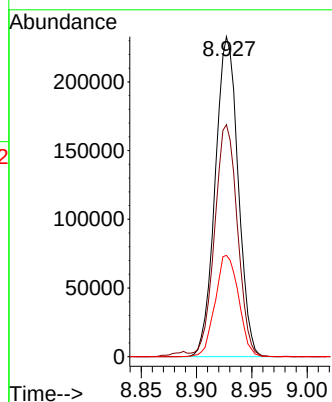
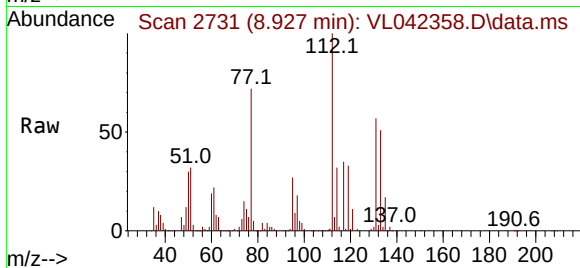
Tgt Ion:112 Resp: 335143

Ion Ratio Lower Upper

112 100

77 72.4 57.8 86.6

114 31.7 29.3 35.9



#58

Ethyl Benzene

Concen: 9.975 ppbv

RT: 9.361 min Scan# 2865

Delta R.T. 0.007 min

Lab File: VL042358.D

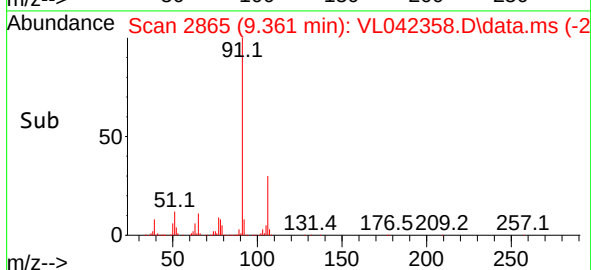
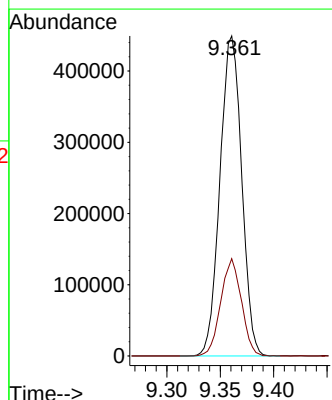
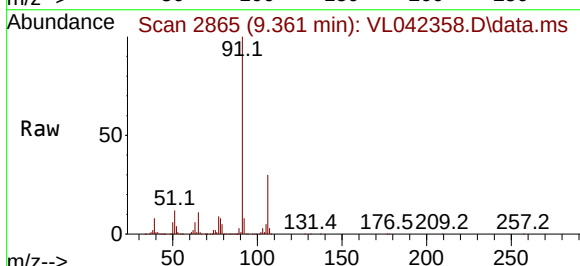
Acq: 17 Apr 2025 15:39

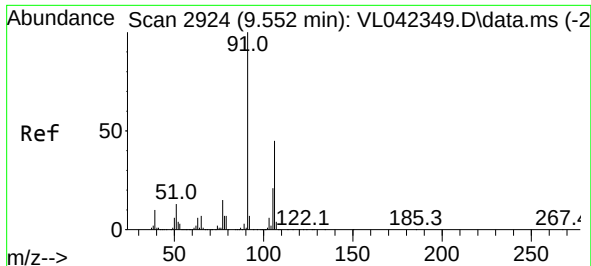
Tgt Ion: 91 Resp: 635446

Ion Ratio Lower Upper

91 100

106 30.4 23.0 34.4

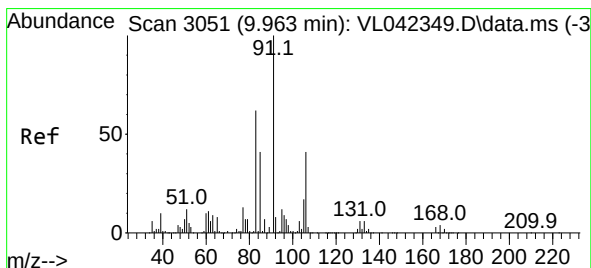
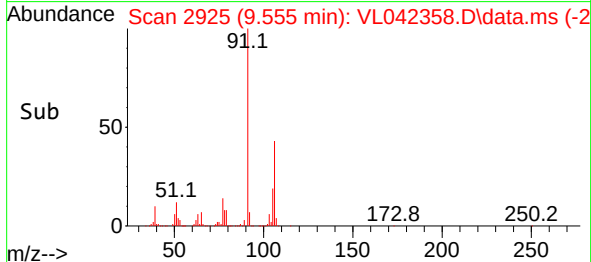
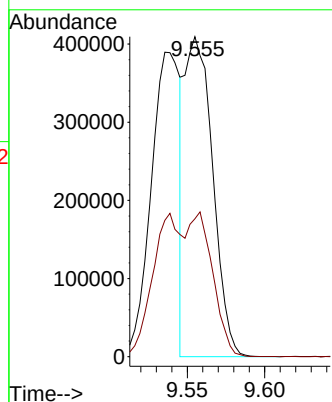
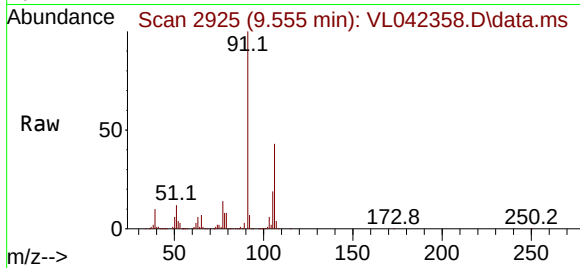




#59
m/p-Xylene
Concen: 10.001 ppbv
RT: 9.555 min Scan# 2924
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

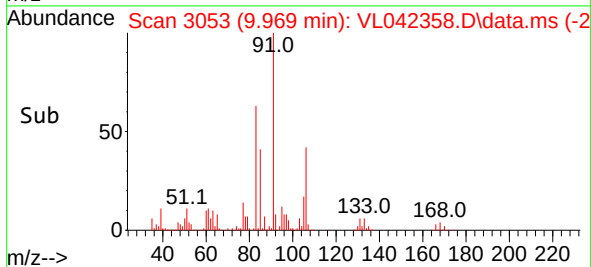
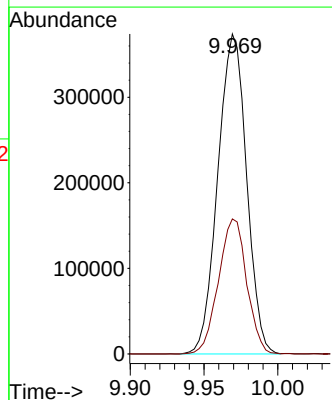
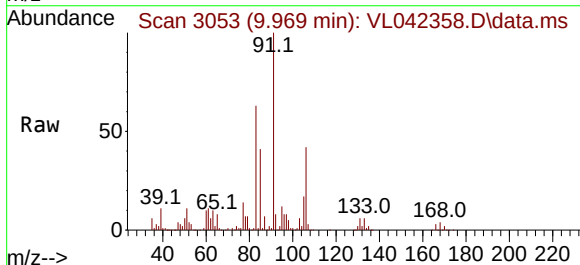
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

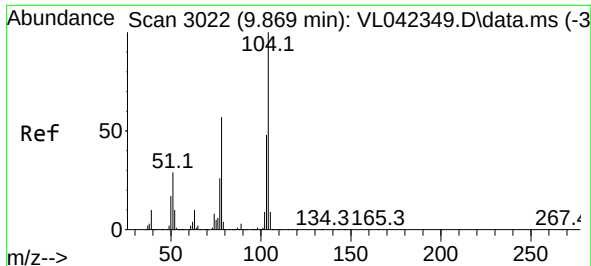
Tgt Ion: 91 Resp: 513237
Ion Ratio Lower Upper
91 100
106 87.8 35.4 53.2#



#60
o-Xylene
Concen: 9.802 ppbv
RT: 9.969 min Scan# 3053
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 91 Resp: 506535
Ion Ratio Lower Upper
91 100
106 41.4 21.1 63.4

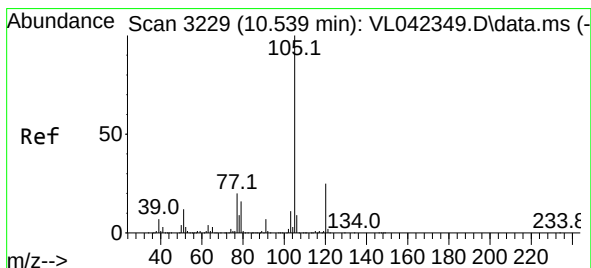
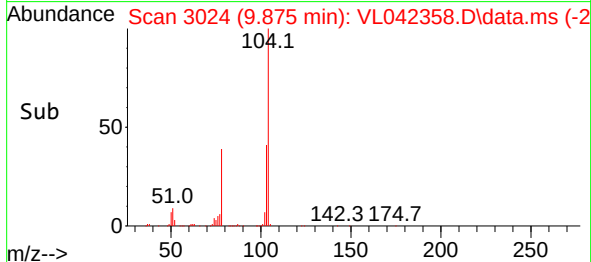
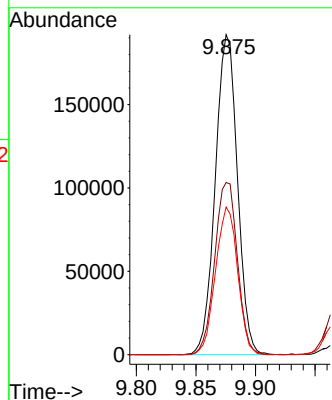
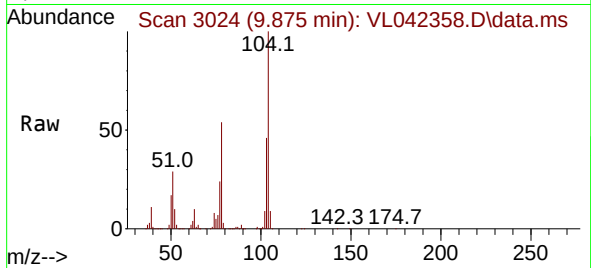




#61
Styrene
Concen: 10.055 ppbv
RT: 9.875 min Scan# 3022
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

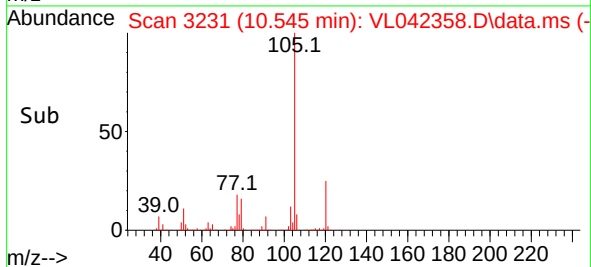
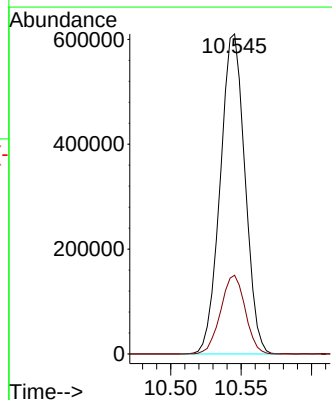
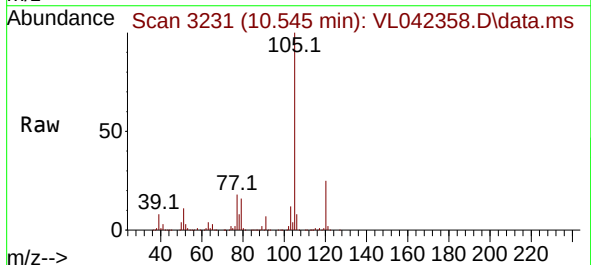
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

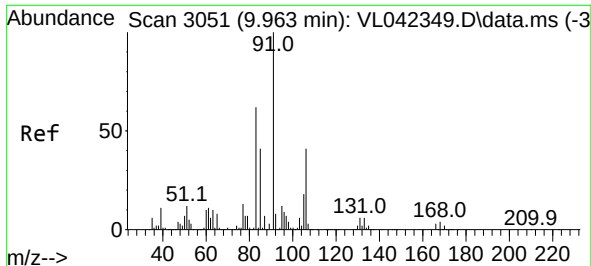
Tgt Ion:104 Resp: 248022
Ion Ratio Lower Upper
104 100
78 55.3 44.6 66.8
103 46.2 37.4 56.0



#62
Isopropylbenzene
Concen: 9.827 ppbv
RT: 10.545 min Scan# 3231
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:105 Resp: 745571
Ion Ratio Lower Upper
105 100
120 24.5 19.8 29.8

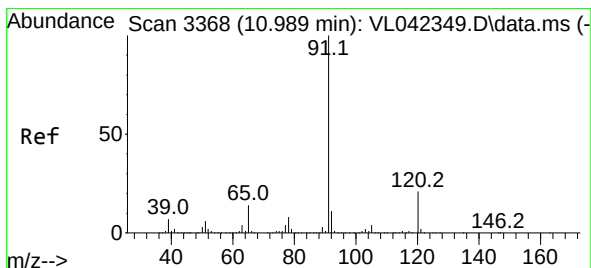
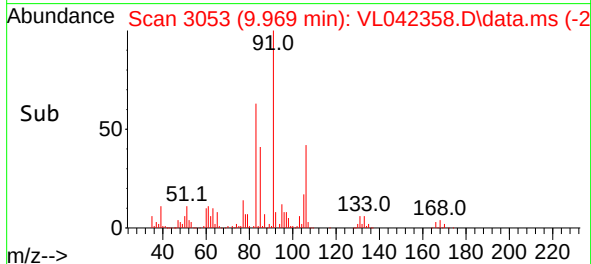
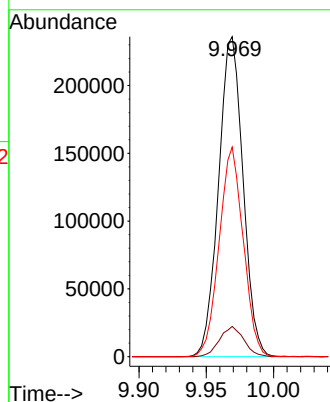
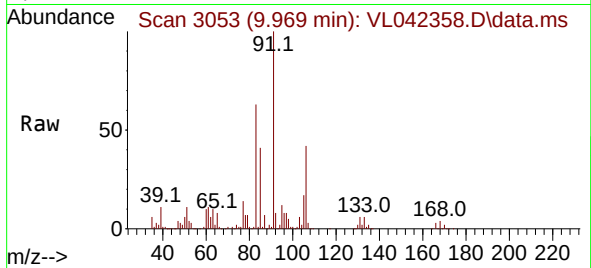




#63
1,1,2,2-Tetrachloroethane
Concen: 8.916 ppbv
RT: 9.969 min Scan# 3051
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

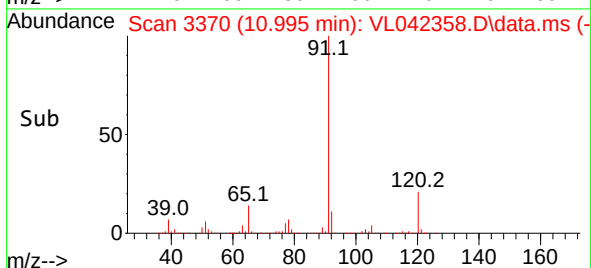
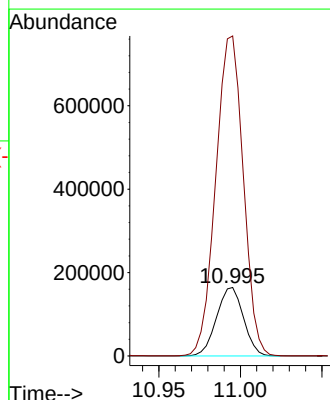
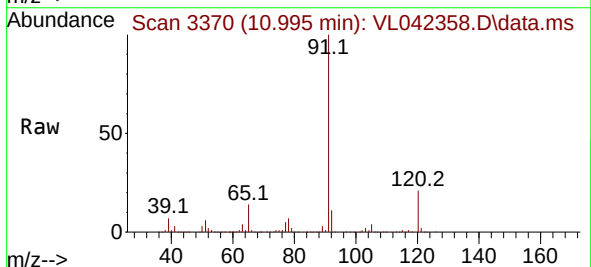
Instrument :
MSVOA_1
ClientSampleId :
VL0417ABS01

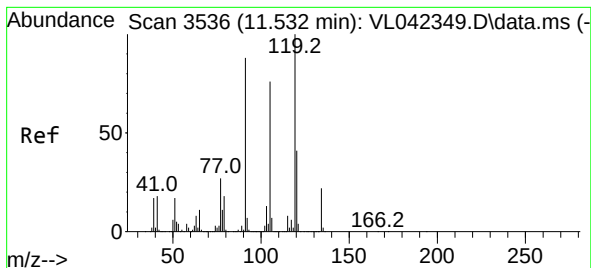
Tgt Ion: 83 Resp: 298581
Ion Ratio Lower Upper
83 100
131 9.4 4.5 13.7
85 64.5 32.4 97.0



#64
n-propylbenzene
Concen: 9.875 ppbv
RT: 10.995 min Scan# 3370
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 120 Resp: 188310
Ion Ratio Lower Upper
120 100
91 478.2 392.4 588.6





#65

tert-Butylbenzene

Concen: 9.589 ppbv

RT: 11.536 min Scan# 3536

Delta R.T. 0.003 min

Lab File: VL042358.D

Acq: 17 Apr 2025 15:39

Instrument :

MSVOA_L

ClientSampleId :

VL0417ABS01

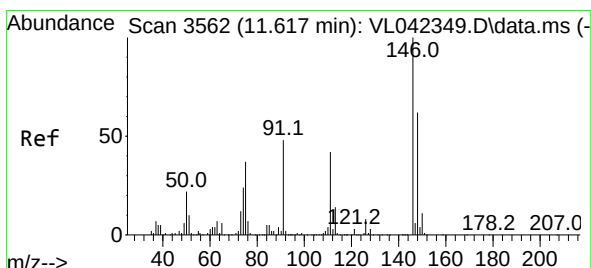
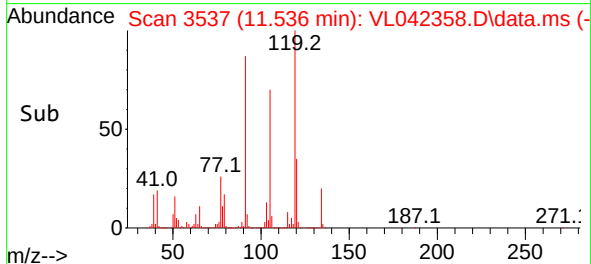
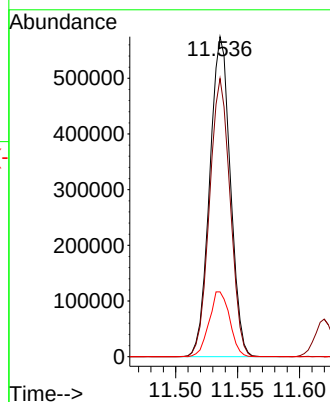
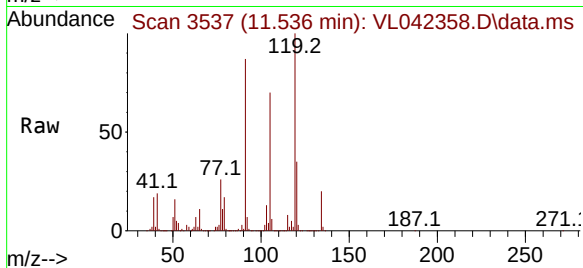
Tgt Ion:119 Resp: 668687

Ion Ratio Lower Upper

119 100

91 86.7 74.6 111.8

134 20.2 18.8 28.2



#66

Benzyl Chloride

Concen: 9.012 ppbv

RT: 11.620 min Scan# 3563

Delta R.T. 0.003 min

Lab File: VL042358.D

Acq: 17 Apr 2025 15:39

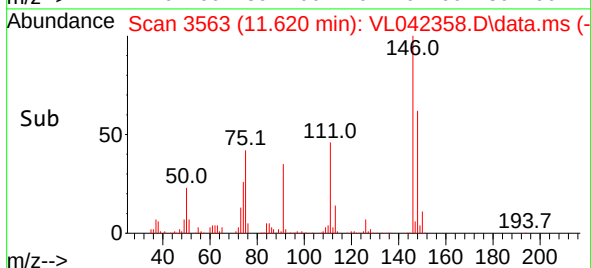
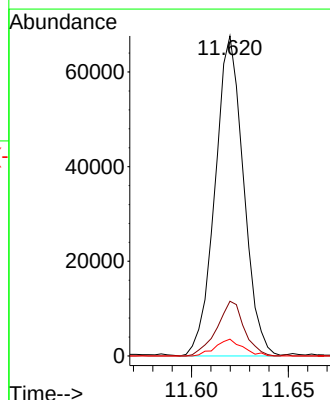
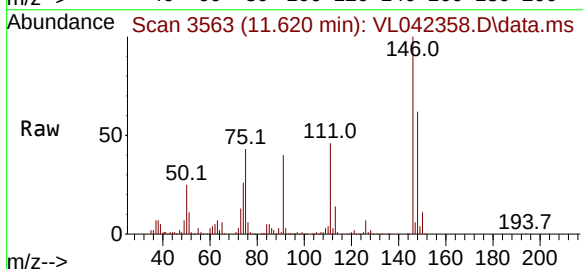
Tgt Ion: 91 Resp: 69058

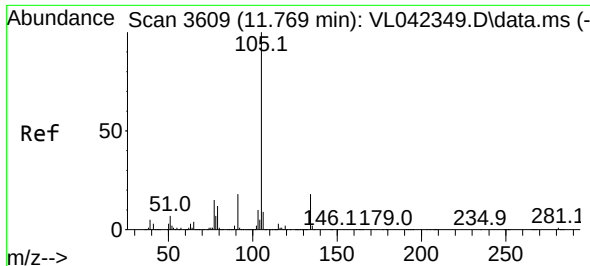
Ion Ratio Lower Upper

91 100

126 16.5 11.8 17.6

128 5.0 4.5 6.7

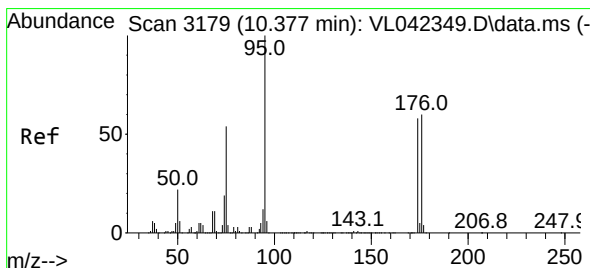
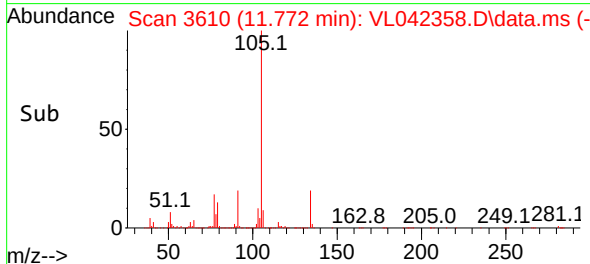
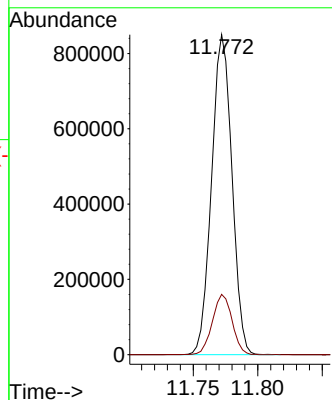
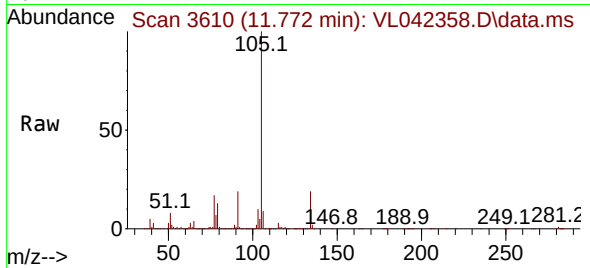




#67
 sec-Butylbenzene
 Concen: 9.592 ppbv
 RT: 11.772 min Scan# 3180
 Delta R.T. 0.003 min
 Lab File: VL042358.D
 Acq: 17 Apr 2025 15:39

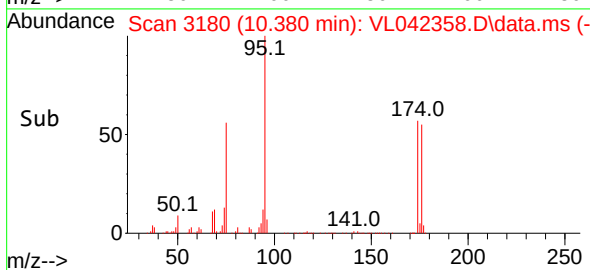
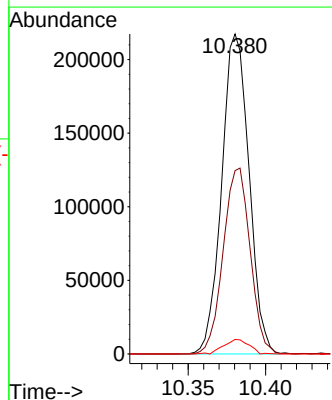
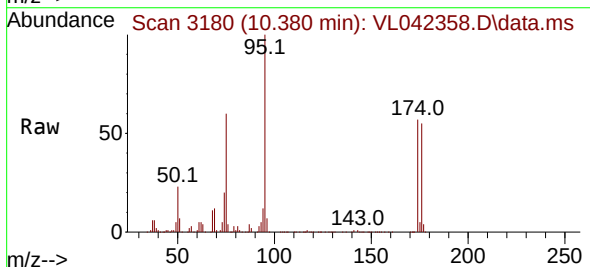
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0417ABS01

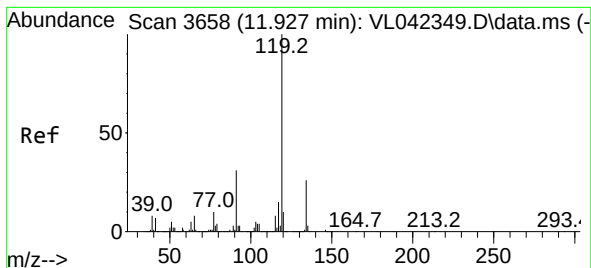
Tgt Ion:105 Resp: 930426
 Ion Ratio Lower Upper
 105 100
 134 18.3 14.6 21.8



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.096 ppbv
 RT: 10.380 min Scan# 3180
 Delta R.T. 0.003 min
 Lab File: VL042358.D
 Acq: 17 Apr 2025 15:39

Tgt Ion: 95 Resp: 266757
 Ion Ratio Lower Upper
 95 100
 174 57.3 48.5 72.7
 175 4.3 3.7 5.5





#69

p-Isopropyltoluene

Concen: 9.441 ppbv

RT: 11.931 min Scan# 3659

Delta R.T. 0.003 min

Lab File: VL042358.D

Acq: 17 Apr 2025 15:39

Instrument :

MSVOA_1

ClientSampleId :

VL0417ABS01

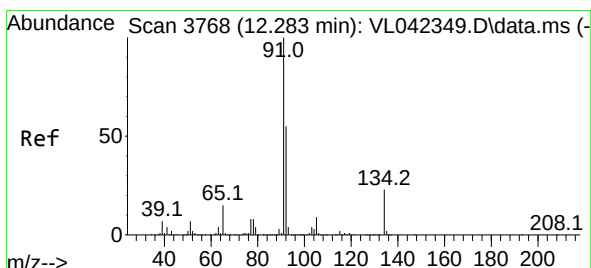
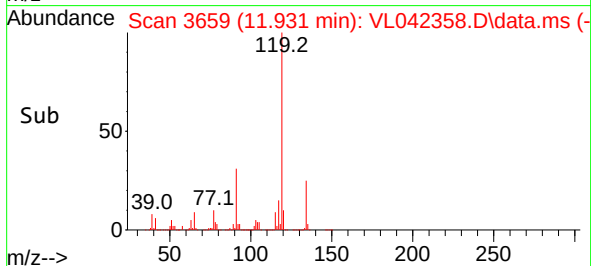
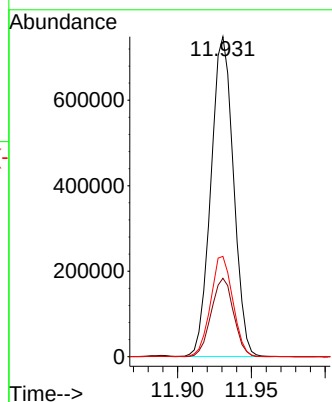
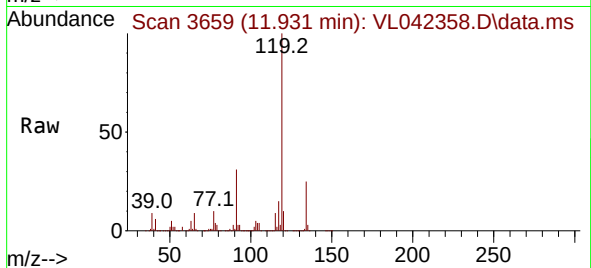
Tgt Ion:119 Resp: 795532

Ion Ratio Lower Upper

119 100

134 24.5 20.0 30.0

91 31.2 24.4 36.6



#70

n-Butylbenzene

Concen: 9.644 ppbv

RT: 12.287 min Scan# 3769

Delta R.T. 0.003 min

Lab File: VL042358.D

Acq: 17 Apr 2025 15:39

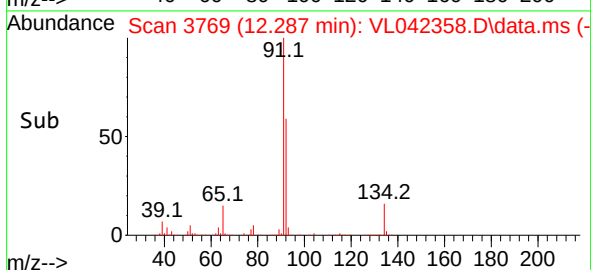
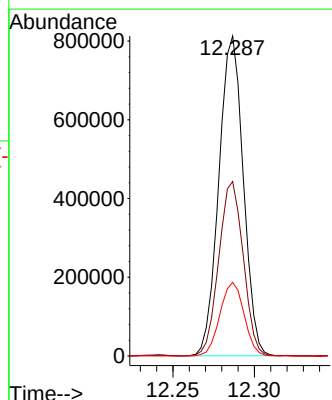
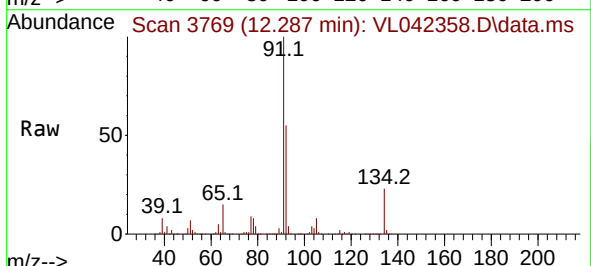
Tgt Ion: 91 Resp: 846427

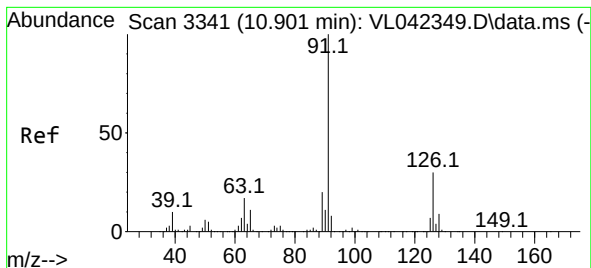
Ion Ratio Lower Upper

91 100

92 54.9 44.2 66.4

134 22.7 18.2 27.4





#71

2-Chlorotoluene

Concen: 9.934 ppbv

RT: 10.905 min Scan# 31

Delta R.T. 0.003 min

Lab File: VL042358.D

Acq: 17 Apr 2025 15:39

Instrument :

MSVOA_1

ClientSampleId :

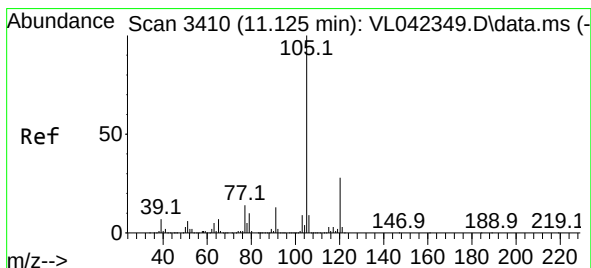
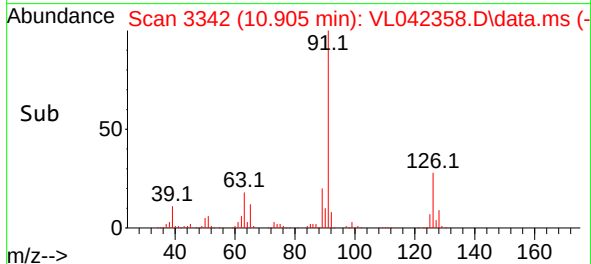
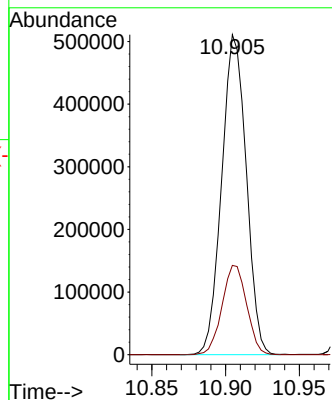
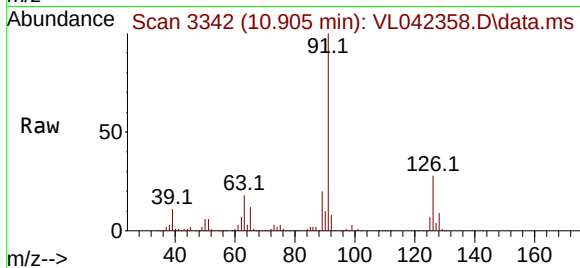
VL0417ABS01

Tgt Ion: 91 Resp: 591154

Ion Ratio Lower Upper

91 100

126 27.9 11.4 45.4



#72

4-Ethyltoluene

Concen: 9.606 ppbv

RT: 11.131 min Scan# 3412

Delta R.T. 0.007 min

Lab File: VL042358.D

Acq: 17 Apr 2025 15:39

Tgt Ion:105 Resp: 606879

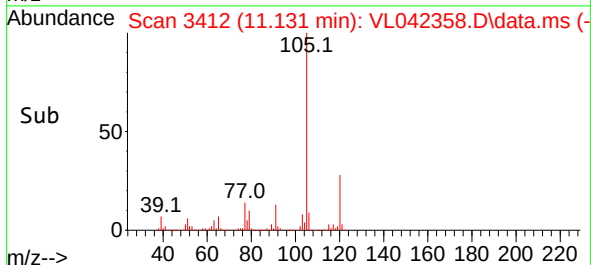
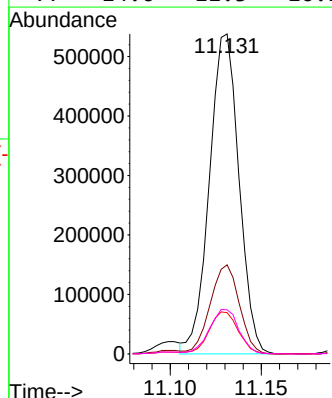
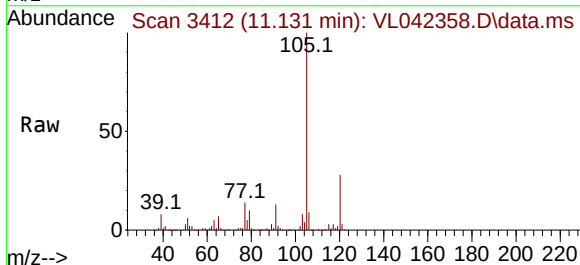
Ion Ratio Lower Upper

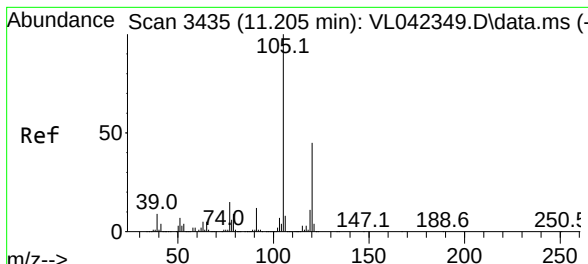
105 100

120 28.6 23.2 34.8

91 13.5 10.4 15.6

77 14.6 11.3 16.9

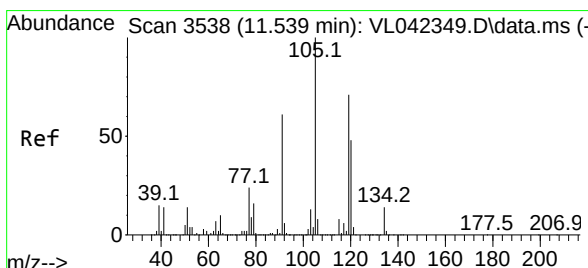
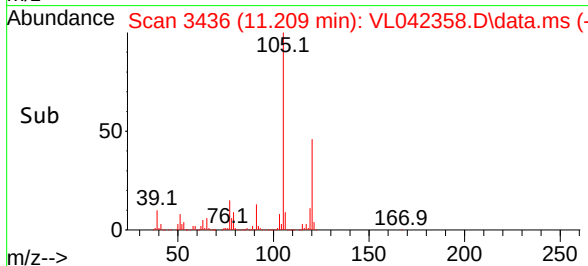
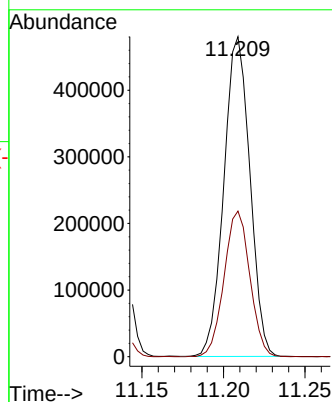
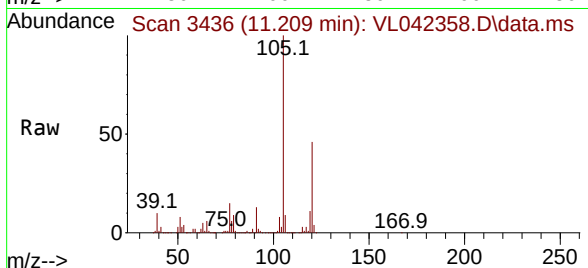




#73
1,3,5-Trimethylbenzene
Concen: 9.557 ppbv
RT: 11.209 min Scan# 3435
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

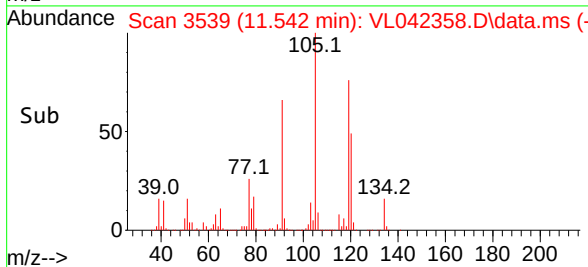
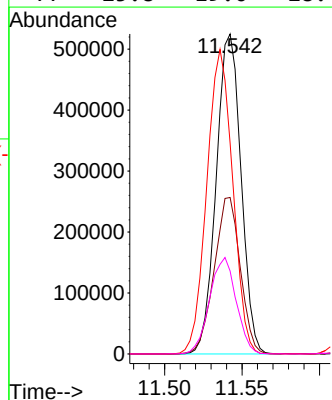
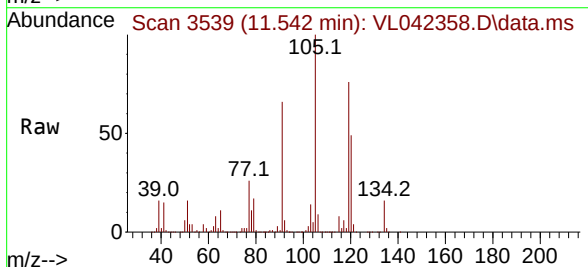
Instrument :
MSVOA_1
ClientSampleId :
VL0417ABS01

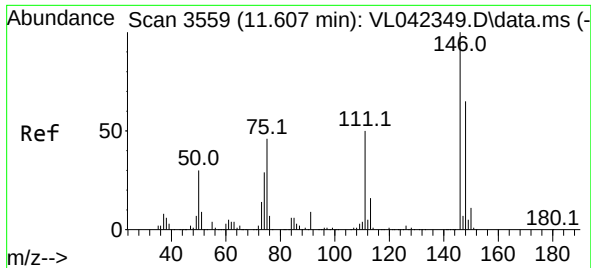
Tgt Ion:105 Resp: 533060
Ion Ratio Lower Upper
105 100
120 45.6 35.6 53.4



#74
1,2,4-Trimethylbenzene
Concen: 8.976 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:105 Resp: 584747
Ion Ratio Lower Upper
105 100
120 48.9 38.1 57.1
91 65.8 48.8 73.2
77 25.8 19.0 28.4

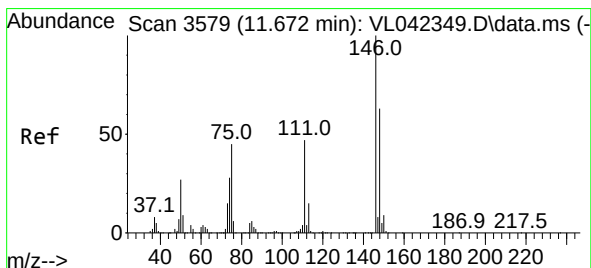
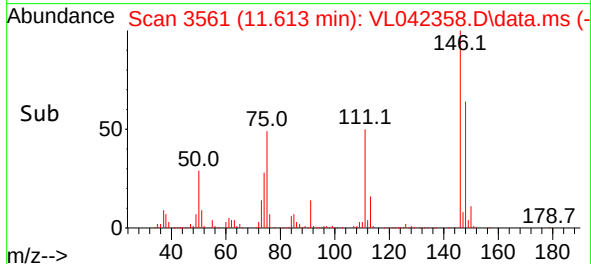
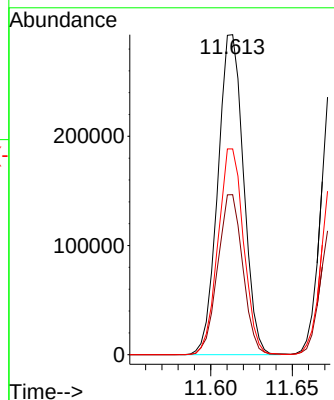
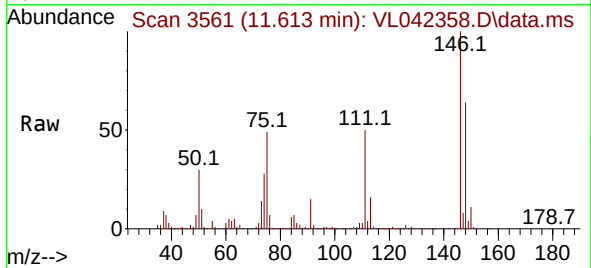




#75
1,3-Dichlorobenzene
Concen: 9.474 ppbv
RT: 11.613 min Scan# 3559
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

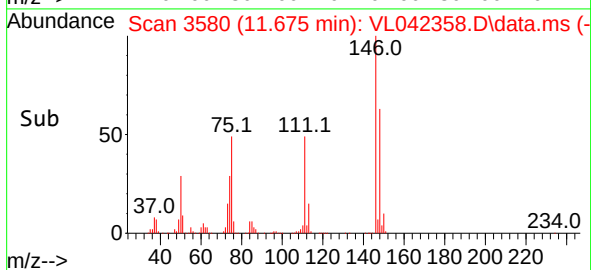
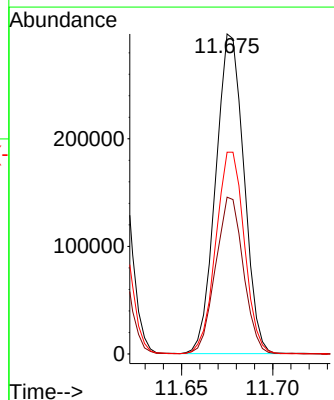
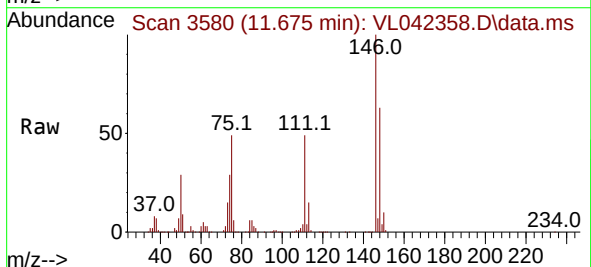
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

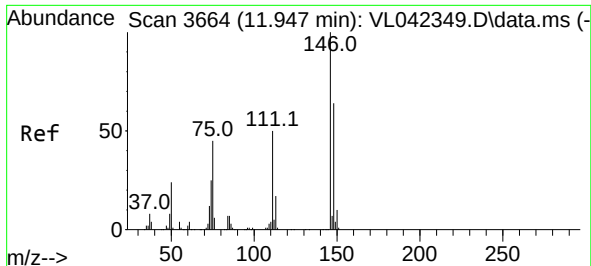
Tgt Ion:146 Resp: 320811
Ion Ratio Lower Upper
146 100
111 48.8 24.3 72.8
148 64.0 31.6 94.8



#76
1,4-Dichlorobenzene
Concen: 9.384 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:146 Resp: 319376
Ion Ratio Lower Upper
146 100
111 48.6 24.2 72.6
148 64.1 32.1 96.5





#77

1,2-Dichlorobenzene

Concen: 9.459 ppbv

RT: 11.953 min Scan# 3

Delta R.T. 0.007 min

Lab File: VL042358.D

Acq: 17 Apr 2025 15:39

Instrument :

MSVOA_L

ClientSampleId :

VL0417ABS01

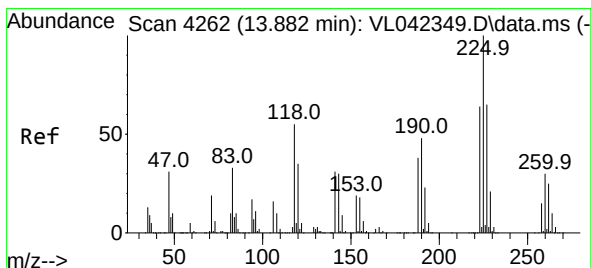
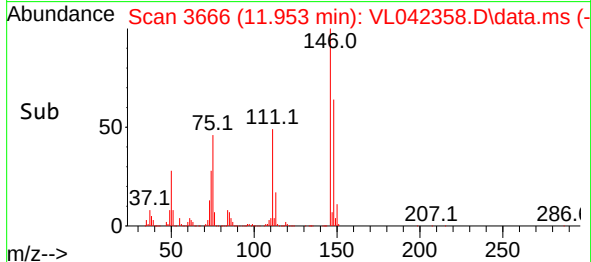
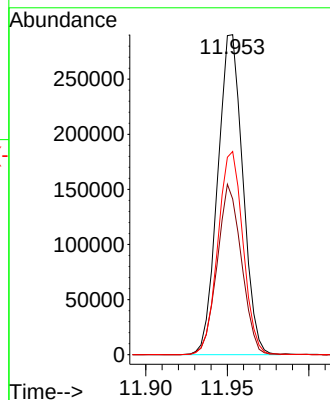
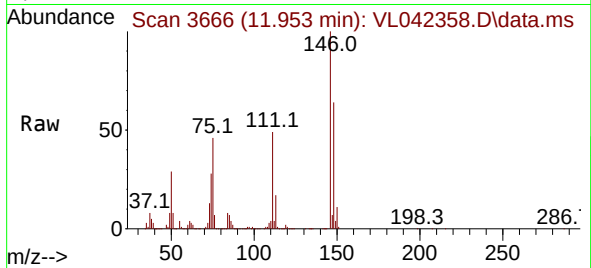
Tgt Ion:146 Resp: 311460

Ion Ratio Lower Upper

146 100

111 51.4 25.3 75.9

148 63.4 31.5 94.5



#78

Hexachloro-1,3-Butadiene

Concen: 9.124 ppbv

RT: 13.886 min Scan# 4263

Delta R.T. 0.003 min

Lab File: VL042358.D

Acq: 17 Apr 2025 15:39

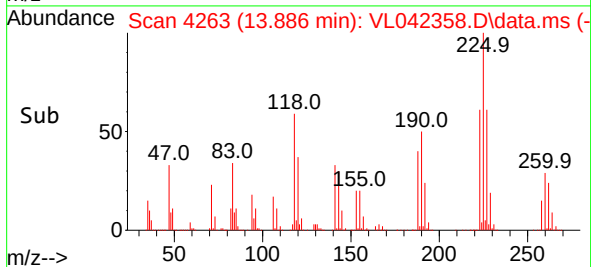
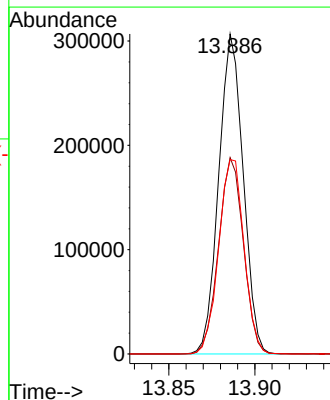
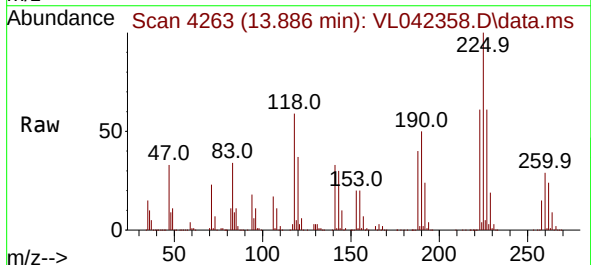
Tgt Ion:225 Resp: 303379

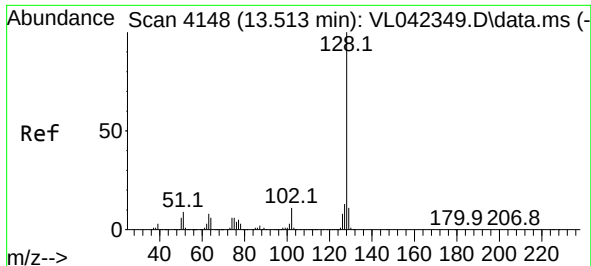
Ion Ratio Lower Upper

225 100

223 62.3 50.3 75.5

227 62.9 51.5 77.3

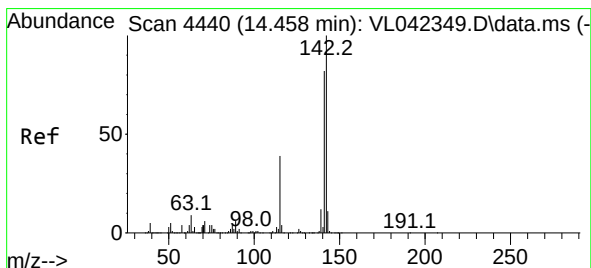
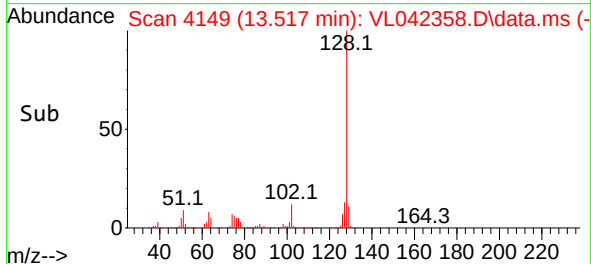
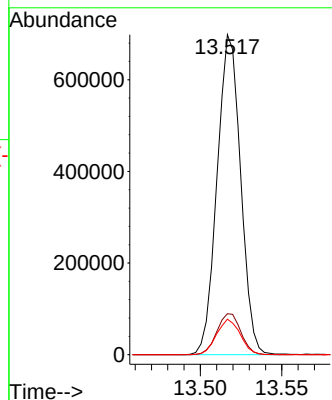
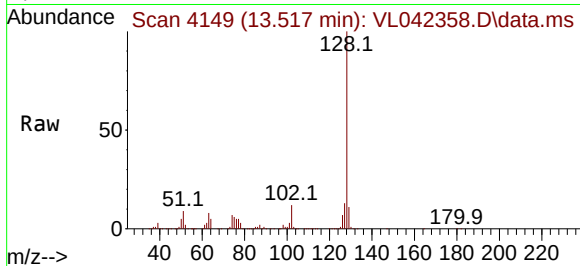




#79
Naphthalene
Concen: 8.999 ppbv
RT: 13.517 min Scan# 4148
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

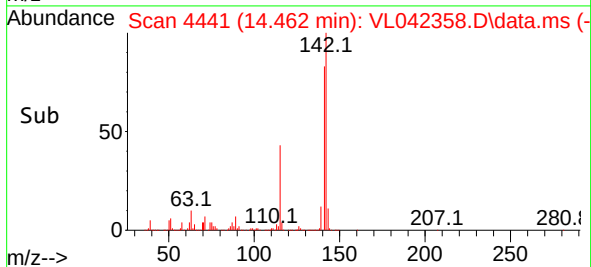
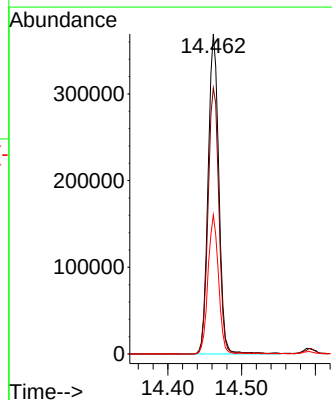
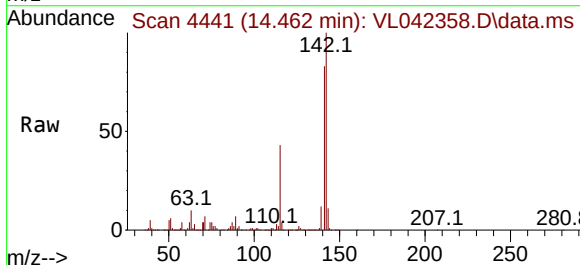
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

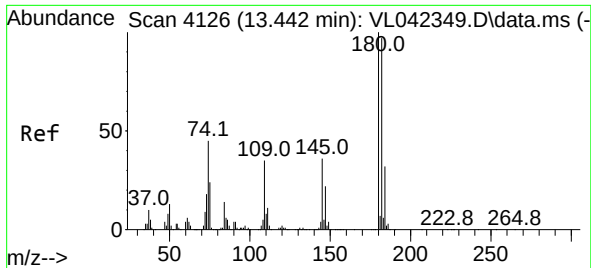
Tgt Ion:128 Resp: 701010
Ion Ratio Lower Upper
128 100
127 12.8 10.6 15.8
129 11.1 8.6 12.8



#80
Naphthalene,2-methyl-
Concen: 8.331 ppbv
RT: 14.462 min Scan# 4441
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion:142 Resp: 369891
Ion Ratio Lower Upper
142 100
141 85.0 66.8 100.2
115 42.8 33.4 50.2





#81

1,2,4-Trichlorobenzene

Concen: 9.417 ppbv

RT: 13.445 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042358.D

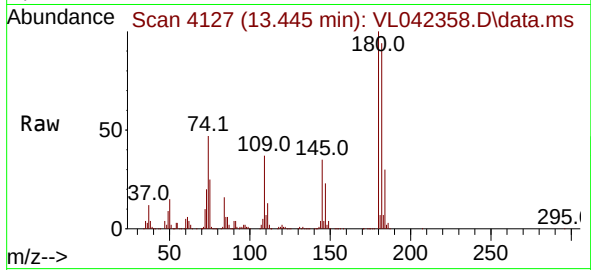
Acq: 17 Apr 2025 15:39

Instrument :

MSVOA_L

ClientSampleId :

VL0417ABS01



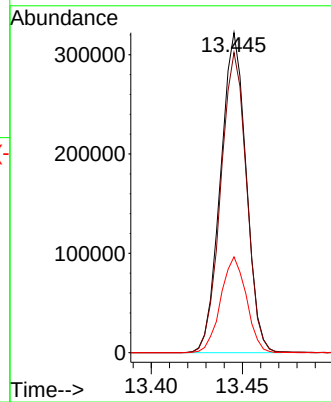
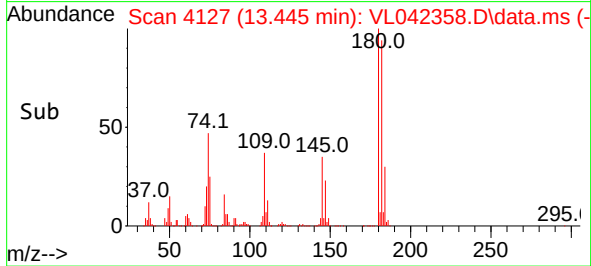
Tgt Ion:180 Resp: 315002

Ion Ratio Lower Upper

180 100

182 94.8 76.8 115.2

184 30.1 24.6 36.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042361.D
 Acq On : 17 Apr 2025 17:17
 Operator : SY/MD
 Sample : Q1668-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B1-4-3252025

Quant Time: Apr 18 02:38:57 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 02:14:00 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	118680	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	339191	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	303501	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	254412	10.201	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.000%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	9719	0.463	ppbv	96
3) Chlorodifluoromethane	1.476	51	10711	0.536	ppbv #	88
4) Chloromethane	1.535	50	4388	0.529	ppbv #	83
6) Bromomethane	1.664	94	153	0.039	ppbv #	45
7) Chloroethane	1.706	64	113	0.035	ppbv #	79
9) Propene	1.486	41	5612	0.617	ppbv	87
10) Heptane	4.982	43	49177	1.925	ppbv	98
11) Trichlorofluoromethane	1.878	101	4685	0.235	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.140	101	1388	0.085	ppbv	99
13) Ethanol	1.722	45	357077	247.060	ppbv	76
15) Acetone	1.836	43	102271	5.264	ppbv	92
16) 1,3-Butadiene	1.603	39	5117	0.551	ppbv #	9
17) tert-Butyl alcohol	2.046	59	3120	0.130	ppbv #	34
19) Isopropyl Alcohol	1.888	45	23025	2.133	ppbv #	3
20) Methylene Chloride	2.062	84	21165	2.782	ppbv #	80
21) Allyl Chloride	2.085	41	432	0.032	ppbv #	1
23) Vinyl Acetate	2.451	43	6946	0.883	ppbv #	77
25) Ethyl Acetate	2.829	43	41711	0.871	ppbv #	80
26) Hexane	2.826	57	57707	2.977	ppbv #	32
27) Carbon Disulfide	2.150	76	12989	0.626	ppbv #	1
29) Chloroform	2.849	83	1642	0.060	ppbv	90
30) Cyclohexane	3.862	84	52016	3.319	ppbv	99
34) 2-Butanone	2.564	43	18598	0.693	ppbv	98
35) Carbon Tetrachloride	3.762	117	1037	0.034	ppbv #	76
36) Benzene	3.658	78	20521	0.561	ppbv	98
39) 1,2-Dichloropropane	3.962	63	92371	6.775	ppbv #	23
41) Tetrahydrofuran	3.072	42	1220	0.078	ppbv #	80
44) 2,2,4-Trimethylpentane	4.642	57	8612	0.136	ppbv #	42
50) 4-Methyl-2-Pentanone	5.755	43	873418	19.593	ppbv	99
53) Toluene	6.933	91	68700	1.565	ppbv	100
58) Ethyl Benzene	9.361	91	56772	0.944	ppbv	94
59) m/p-Xylene	9.536	91	454491	9.382	ppbv	100
60) o-Xylene	9.966	91	95896	1.966	ppbv	99
61) Styrene	9.872	104	37931	1.629	ppbv	98
62) Isopropylbenzene	10.542	105	10580	0.148	ppbv	95
64) n-propylbenzene	10.992	120	9483	0.527	ppbv	96
65) tert-Butylbenzene	11.539	119	25601	0.389	ppbv #	68
66) Benzyl Chloride	11.536	91	30407	4.204	ppbv #	70
67) sec-Butylbenzene	11.769	105	7719	0.084	ppbv #	61
69) p-Isopropyltoluene	11.928	119	12502	0.157	ppbv	99
70) n-Butylbenzene	12.287	91	28567	0.345	ppbv #	43
71) 2-Chlorotoluene	10.856	91	8756	0.156	ppbv	87
72) 4-Ethyltoluene	11.128	105	61306	1.028	ppbv #	56

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042361.D
Acq On : 17 Apr 2025 17:17
Operator : SY/MD
Sample : Q1668-01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

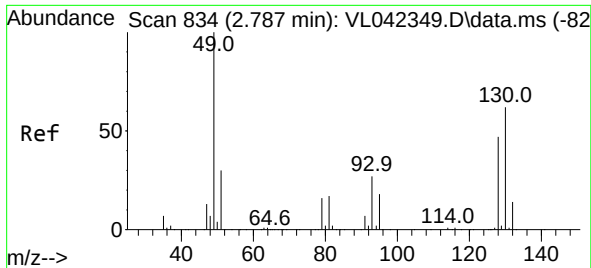
Quant Time: Apr 18 02:38:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
73) 1,3,5-Trimethylbenzene	11.206	105	67763	1.287	ppbv	99
74) 1,2,4-Trimethylbenzene	11.539	105	234839	3.819	ppbv #	65
79) Naphthalene	13.517	128	44224	0.601	ppbv	99
80) Naphthalene,2-methyl-	14.459	142	10408	0.248	ppbv #	74

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

Quant Time: Apr 18 02:38:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

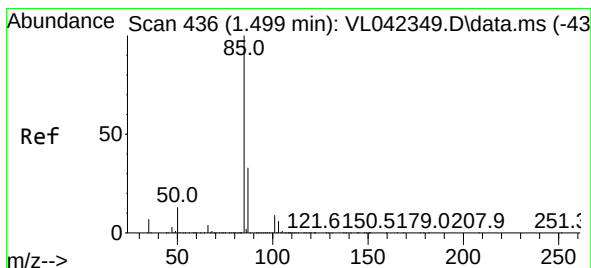
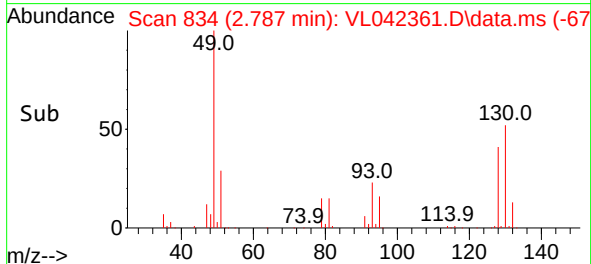
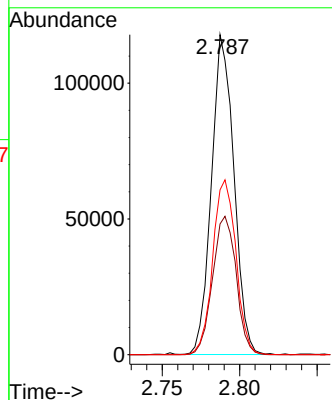
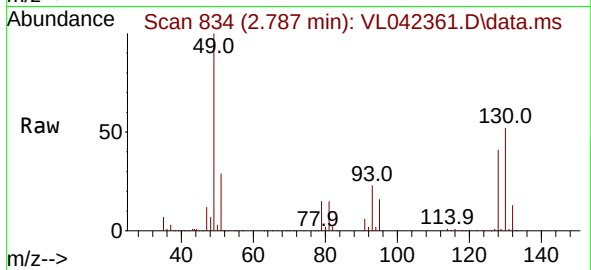




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.787 min Scan# 834
 Delta R.T. 0.000 min
 Lab File: VL042361.D
 Acq: 17 Apr 2025 17:17

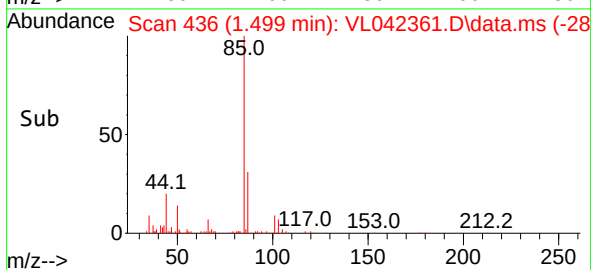
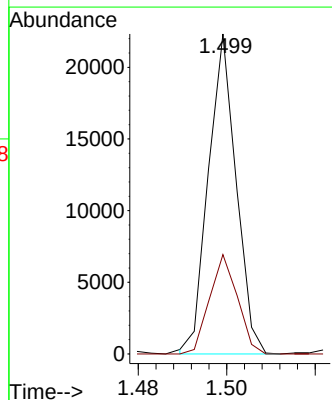
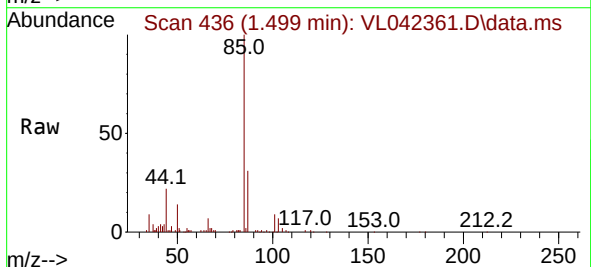
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B1-4-3252025

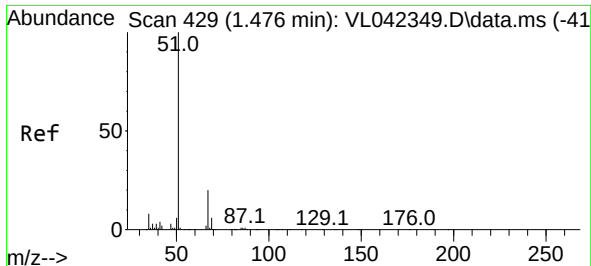
Tgt Ion: 49 Resp: 118680
 Ion Ratio Lower Upper
 49 100
 128 45.4 22.8 68.4
 130 56.4 29.3 88.0



#2
 Dichlorodifluoromethane
 Concen: 0.463 ppbv
 RT: 1.499 min Scan# 436
 Delta R.T. 0.000 min
 Lab File: VL042361.D
 Acq: 17 Apr 2025 17:17

Tgt Ion: 85 Resp: 9719
 Ion Ratio Lower Upper
 85 100
 87 31.1 26.6 39.8

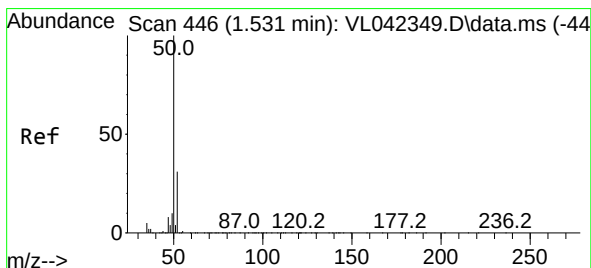
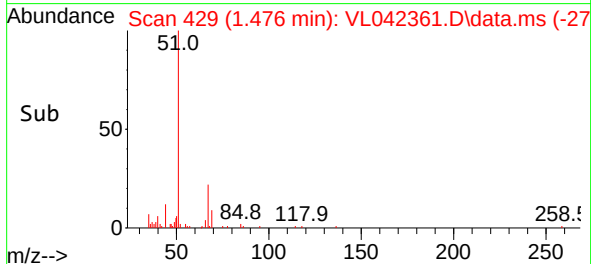
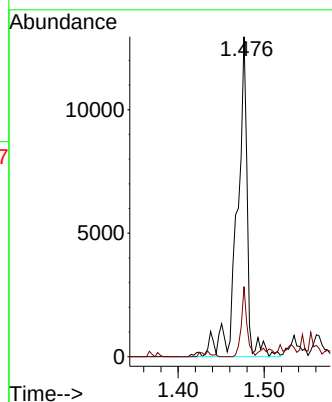
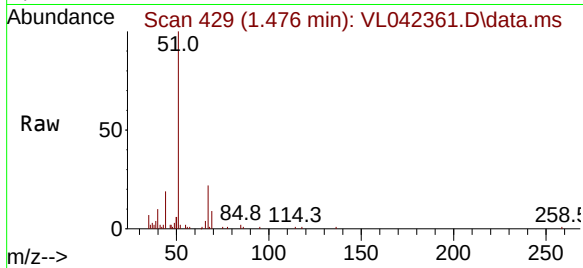




#3
Chlorodifluoromethane
Concen: 0.536 ppbv
RT: 1.476 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

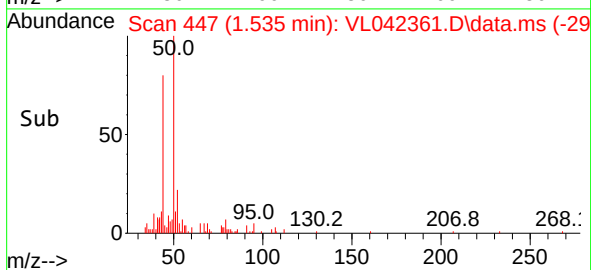
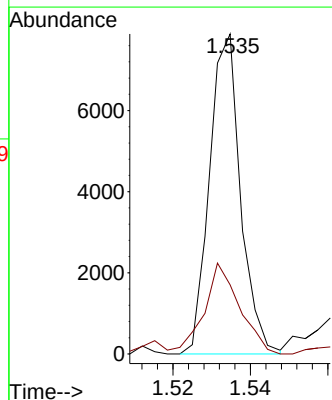
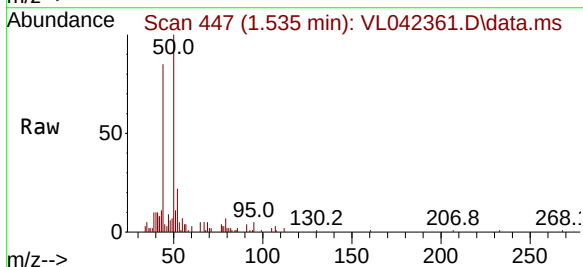
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

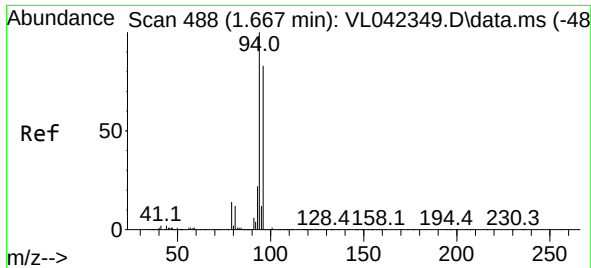
Tgt Ion: 51 Resp: 10711
Ion Ratio Lower Upper
51 100
67 14.8 16.2 24.4#



#4
Chloromethane
Concen: 0.529 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.004 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion: 50 Resp: 4388
Ion Ratio Lower Upper
50 100
52 21.8 24.7 37.1#

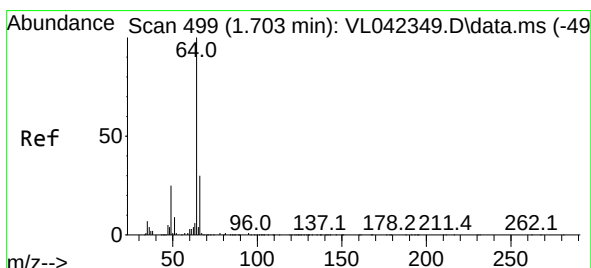
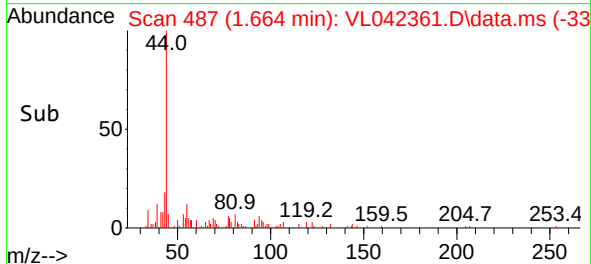
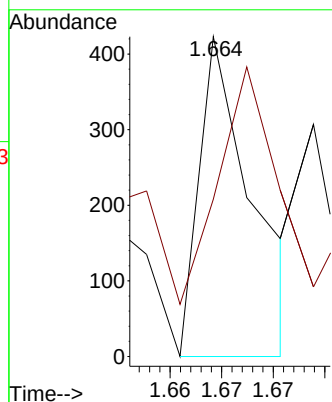
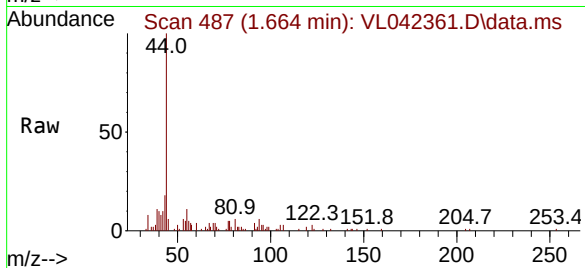




#6
Bromomethane
Concen: 0.039 ppbv
RT: 1.664 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

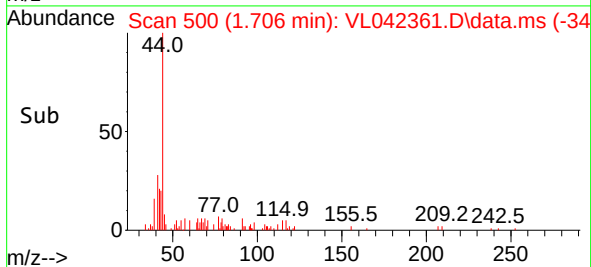
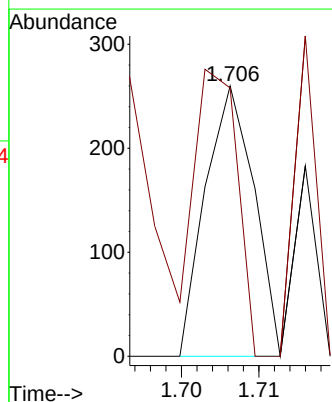
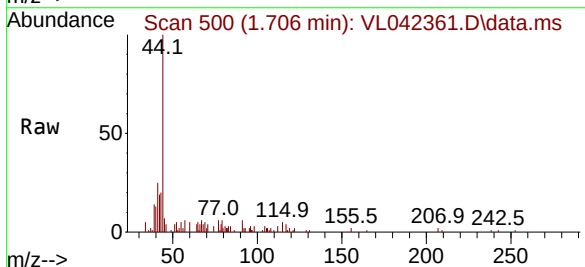
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

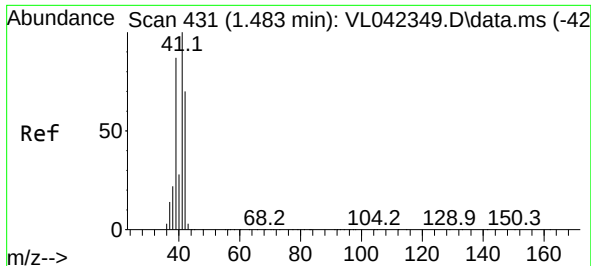
Tgt Ion: 94 Resp: 153
Ion Ratio Lower Upper
94 100
96 32.9 66.2 99.2#



#7
Chloroethane
Concen: 0.035 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.004 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion: 64 Resp: 113
Ion Ratio Lower Upper
64 100
66 42.4 24.6 37.0#





#9

Propene

Concen: 0.617 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.004 min

Lab File: VL042361.D

Acq: 17 Apr 2025 17:17

Instrument :

MSVOA_L

ClientSampleId :

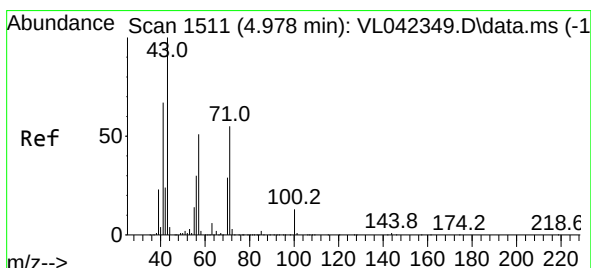
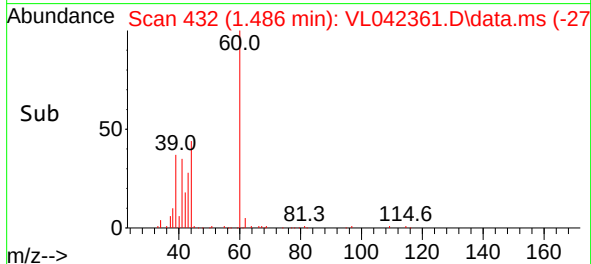
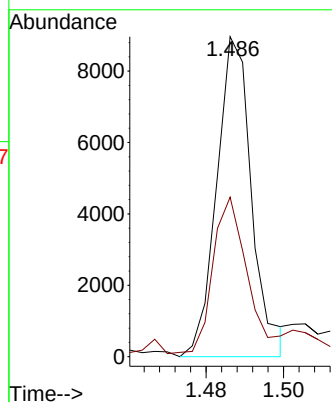
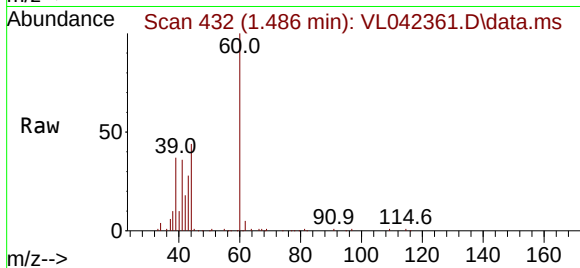
IA-B1-4-3252025

Tgt Ion: 41 Resp: 5612

Ion Ratio Lower Upper

41 100

42 60.0 56.2 84.4



#10

Heptane

Concen: 1.925 ppbv

RT: 4.982 min Scan# 1512

Delta R.T. 0.004 min

Lab File: VL042361.D

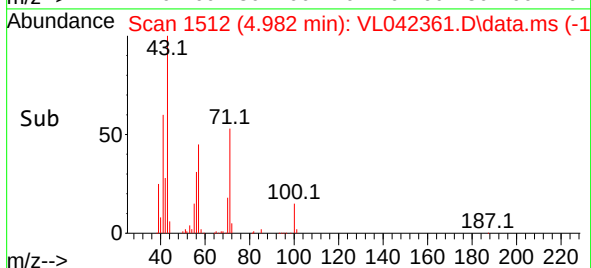
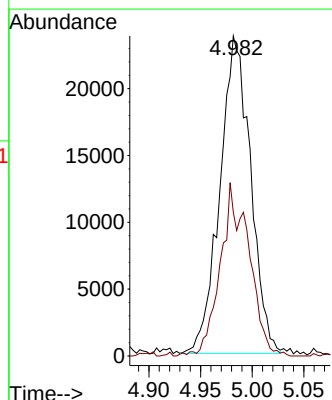
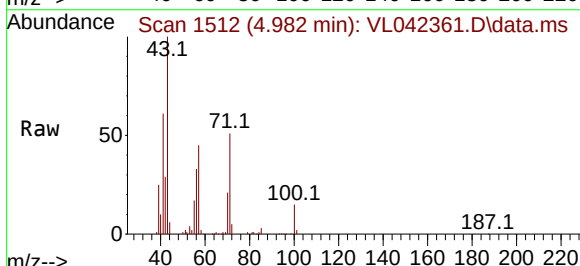
Acq: 17 Apr 2025 17:17

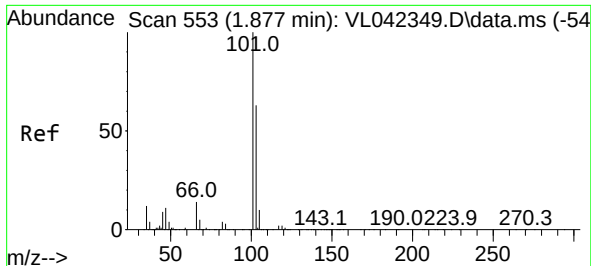
Tgt Ion: 43 Resp: 49177

Ion Ratio Lower Upper

43 100

57 51.2 39.9 59.9

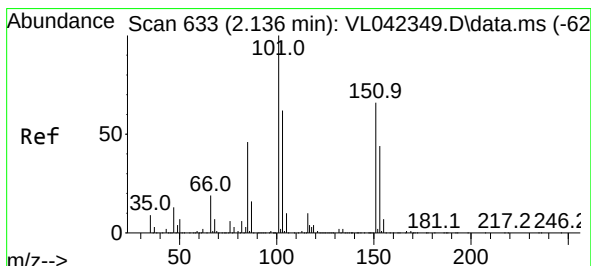
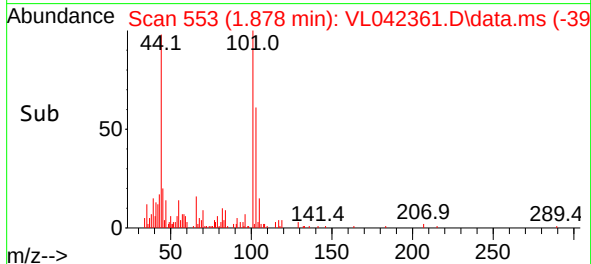
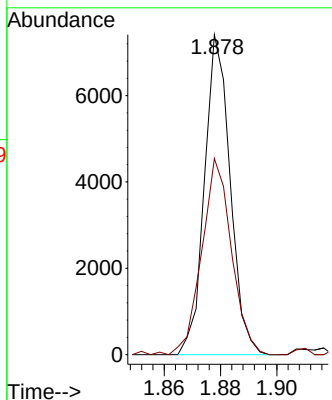
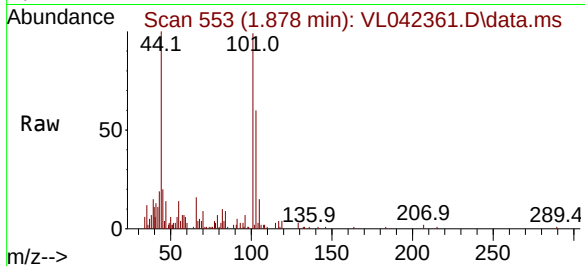




#11
 Trichlorofluoromethane
 Concen: 0.235 ppbv
 RT: 1.878 min Scan# 511
 Delta R.T. 0.000 min
 Lab File: VL042361.D
 Acq: 17 Apr 2025 17:17

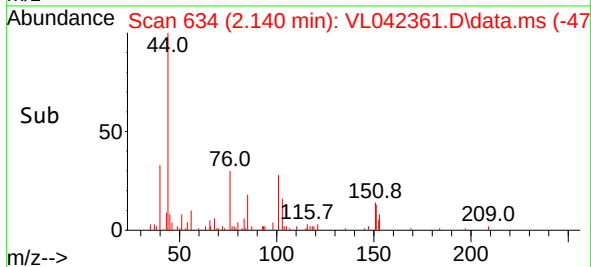
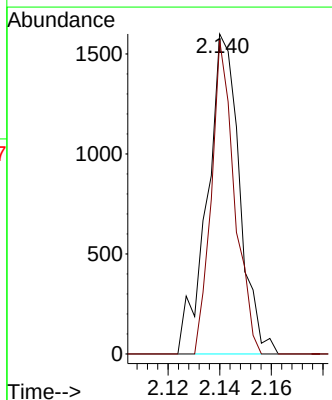
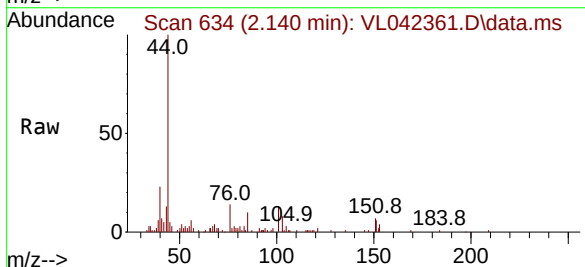
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B1-4-3252025

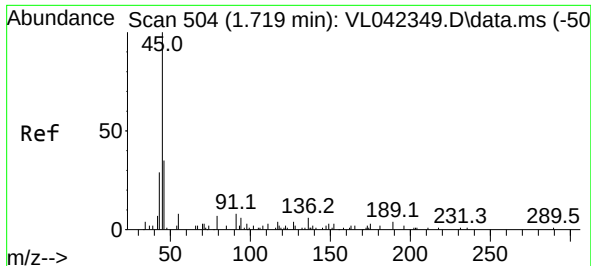
Tgt Ion:101 Resp: 4685
 Ion Ratio Lower Upper
 101 100
 103 61.3 50.1 75.1



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.085 ppbv
 RT: 2.140 min Scan# 634
 Delta R.T. 0.004 min
 Lab File: VL042361.D
 Acq: 17 Apr 2025 17:17

Tgt Ion:101 Resp: 1388
 Ion Ratio Lower Upper
 101 100
 151 70.6 57.0 85.6

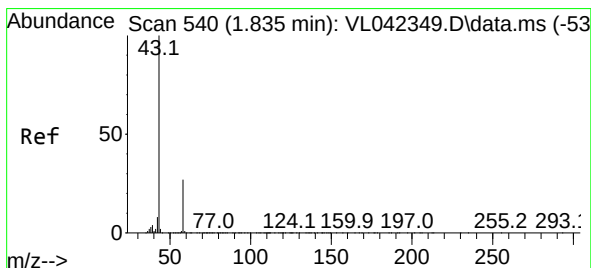
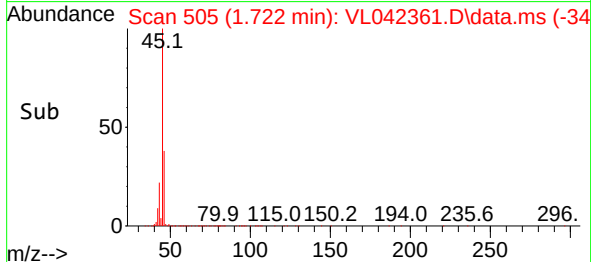
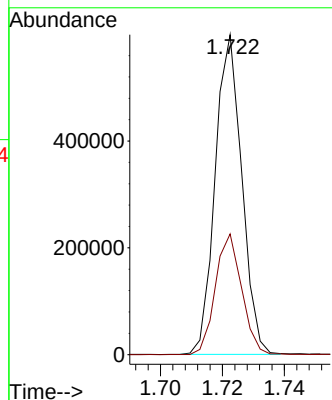
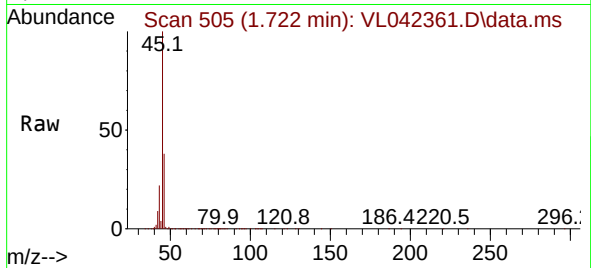




#13
Ethanol
Concen: 247.060 ppbv
RT: 1.722 min Scan# 504
Delta R.T. 0.004 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

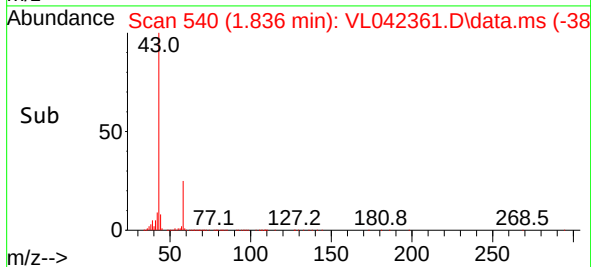
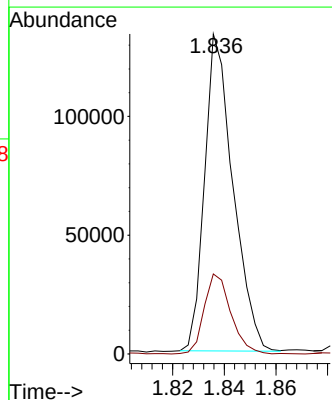
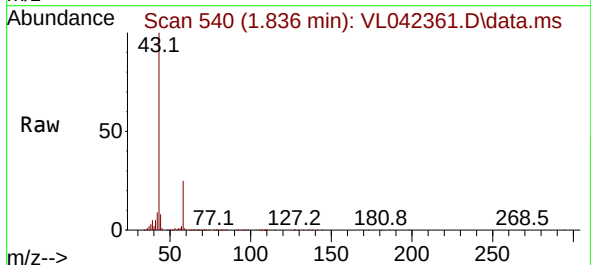
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

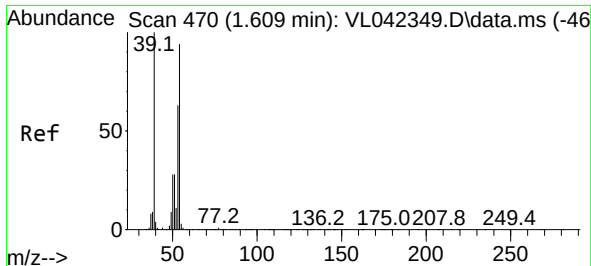
Tgt Ion: 45 Resp: 357077
Ion Ratio Lower Upper
45 100
46 37.6 21.9 87.7



#15
Acetone
Concen: 5.264 ppbv
RT: 1.836 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion: 43 Resp: 102271
Ion Ratio Lower Upper
43 100
58 23.6 22.4 33.6





#16

1,3-Butadiene

Concen: 0.551 ppbv

RT: 1.603 min Scan# 4

Delta R.T. -0.006 min

Lab File: VL042361.D

Acq: 17 Apr 2025 17:17

Instrument :

MSVOA_L

ClientSampleId :

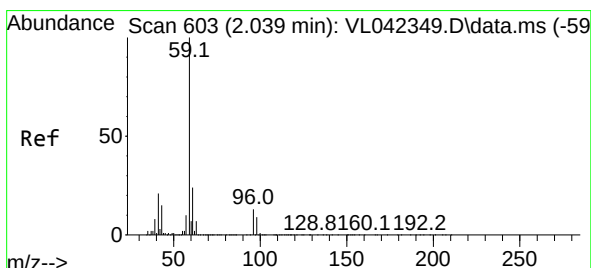
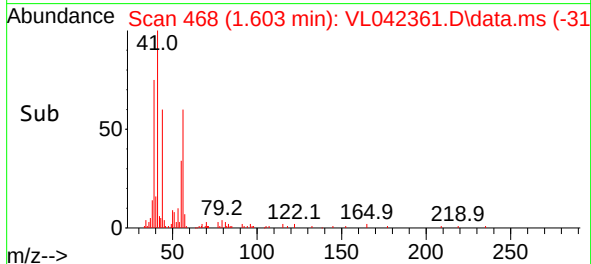
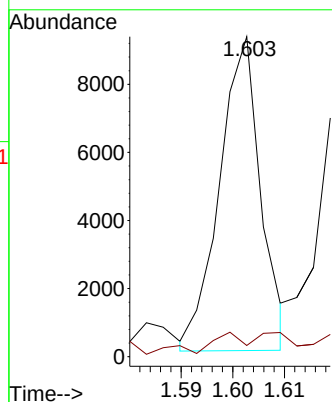
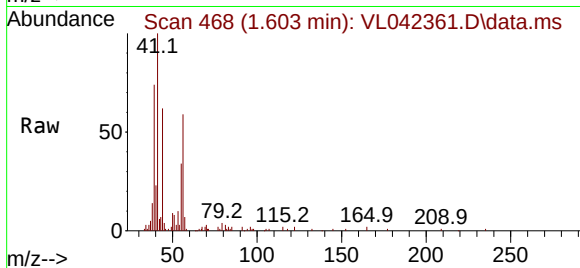
IA-B1-4-3252025

Tgt Ion: 39 Resp: 5117

Ion Ratio Lower Upper

39 100

54 0.0 64.9 97.3#



#17

tert-Butyl alcohol

Concen: 0.130 ppbv

RT: 2.046 min Scan# 605

Delta R.T. 0.007 min

Lab File: VL042361.D

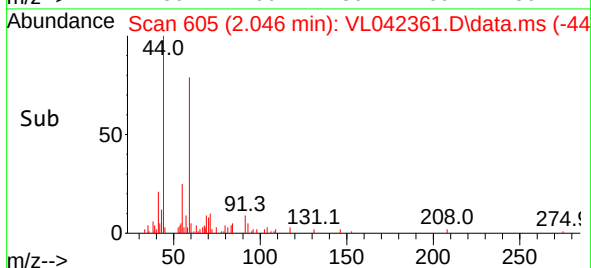
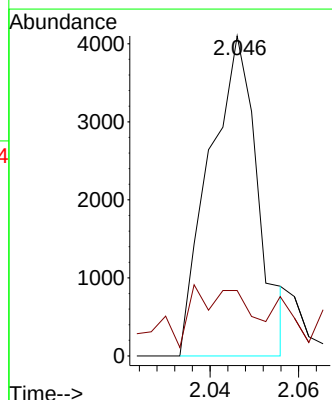
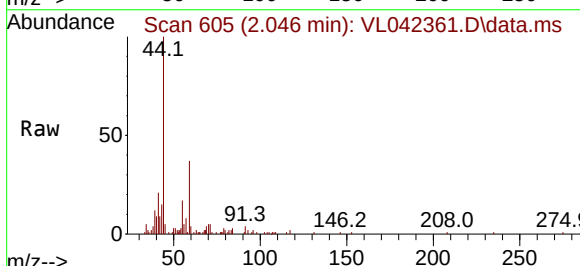
Acq: 17 Apr 2025 17:17

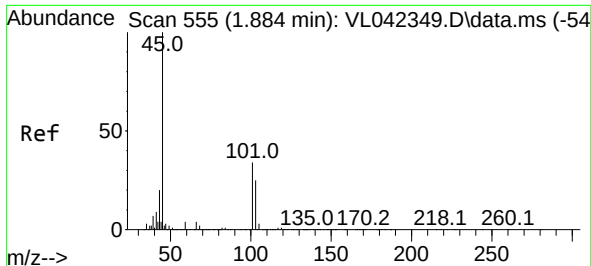
Tgt Ion: 59 Resp: 3120

Ion Ratio Lower Upper

59 100

57 35.8 8.7 13.1#

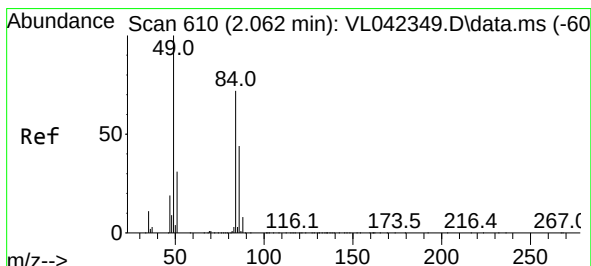
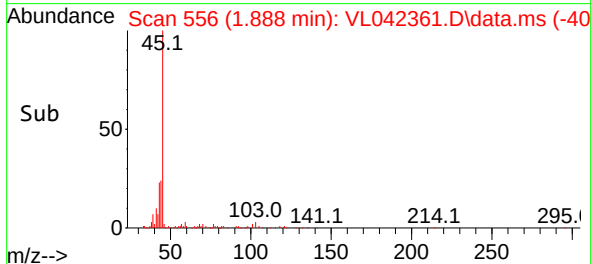
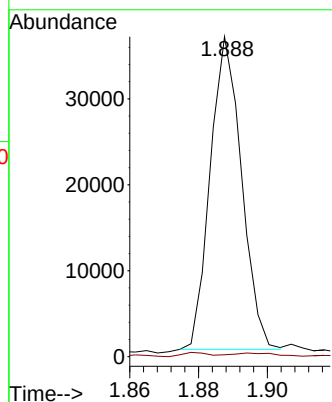
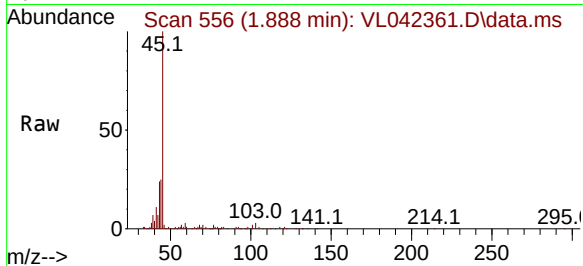




#19
Isopropyl Alcohol
Concen: 2.133 ppbv
RT: 1.888 min Scan# 511
Delta R.T. 0.004 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

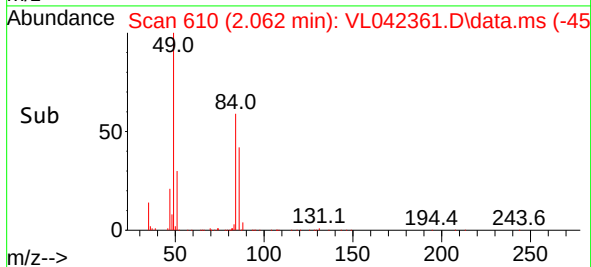
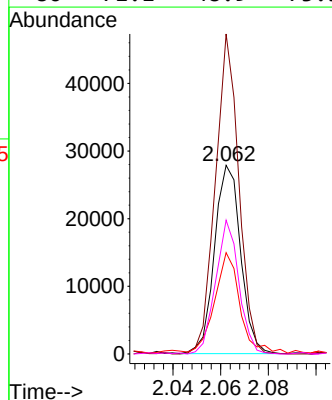
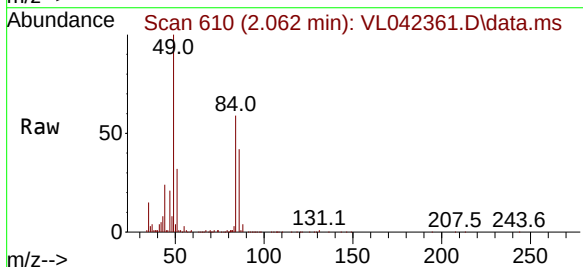
Instrument :
MSVOA_1
ClientSampleId :
IA-B1-4-3252025

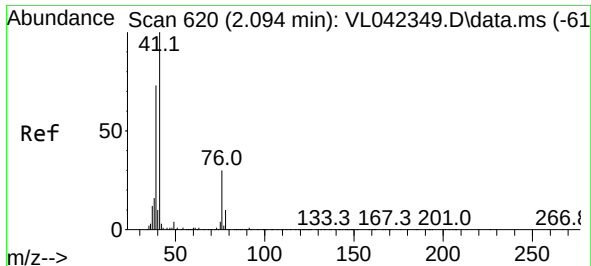
Tgt Ion: 45 Resp: 23025
Ion Ratio Lower Upper
45 100
58 105.0 34.5 51.7#



#20
Methylene Chloride
Concen: 2.782 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion: 84 Resp: 21165
Ion Ratio Lower Upper
84 100
49 170.0 111.6 167.4#
51 52.3 35.1 52.7
86 71.1 48.9 73.3

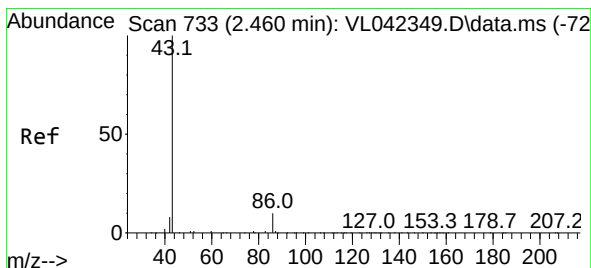
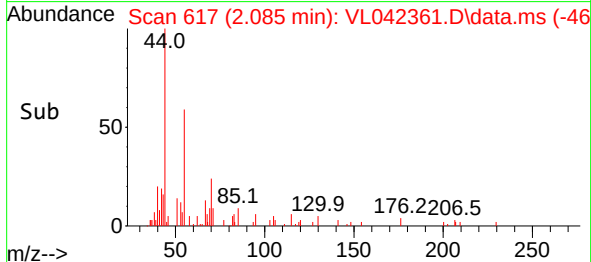
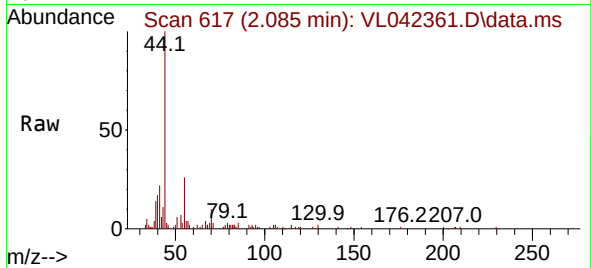




#21
 Allyl Chloride
 Concen: 0.032 ppbv
 RT: 2.085 min Scan# 617
 Delta R.T. -0.009 min
 Lab File: VL042361.D
 Acq: 17 Apr 2025 17:17

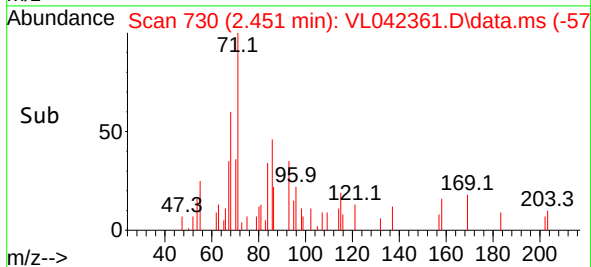
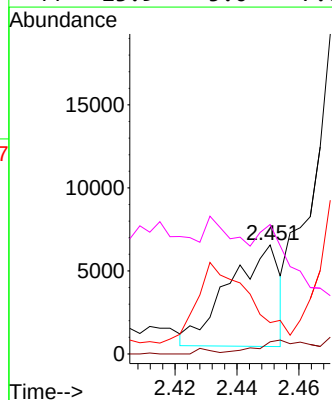
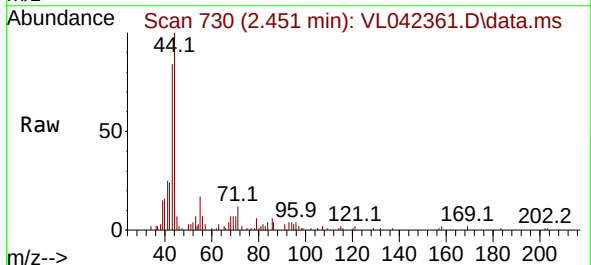
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B1-4-3252025

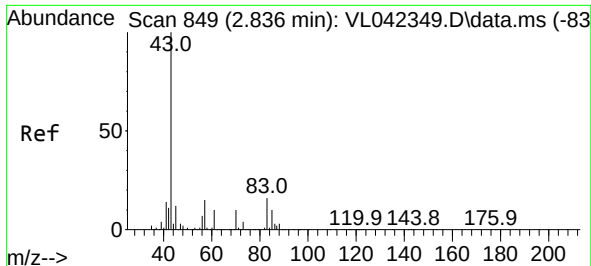
Tgt Ion: 41 Resp: 432
 Ion Ratio Lower Upper
 41 100
 76 0.0 24.8 37.2#
 39 353.5 60.6 90.8#



#23
 Vinyl Acetate
 Concen: 0.883 ppbv
 RT: 2.451 min Scan# 730
 Delta R.T. -0.009 min
 Lab File: VL042361.D
 Acq: 17 Apr 2025 17:17

Tgt Ion: 43 Resp: 6946
 Ion Ratio Lower Upper
 43 100
 86 13.7 6.5 9.7#
 42 13.2 7.8 11.8#
 44 23.9 5.0 7.6#

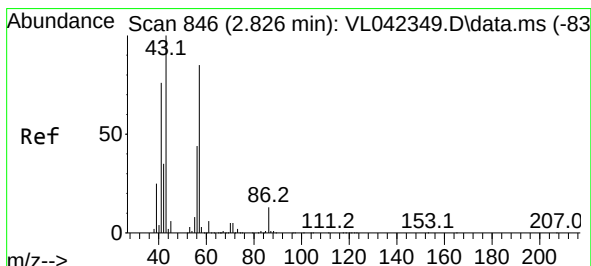
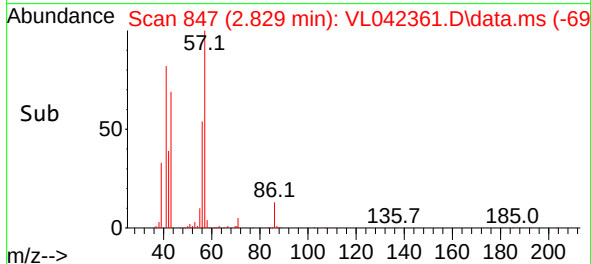
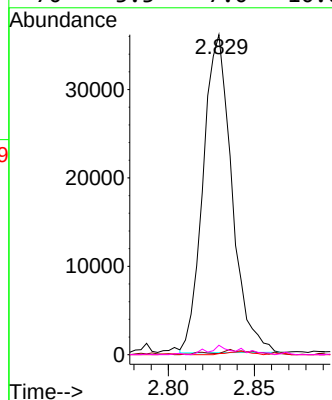
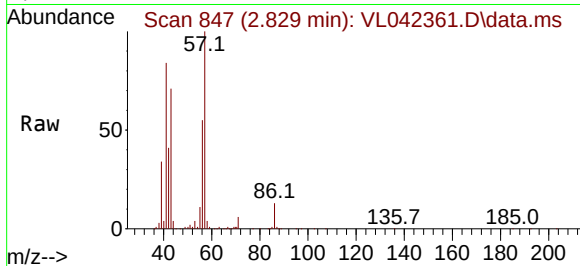




#25
Ethyl Acetate
Concen: 0.871 ppbv
RT: 2.829 min Scan# 849
Delta R.T. -0.006 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

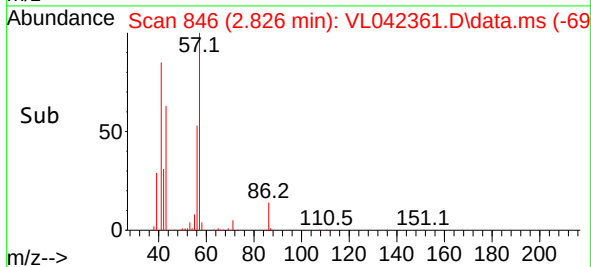
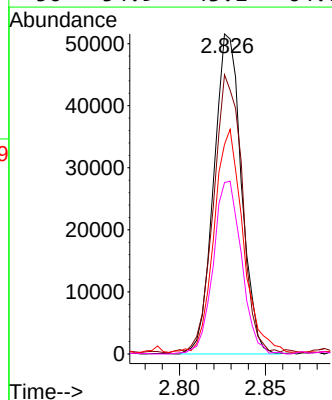
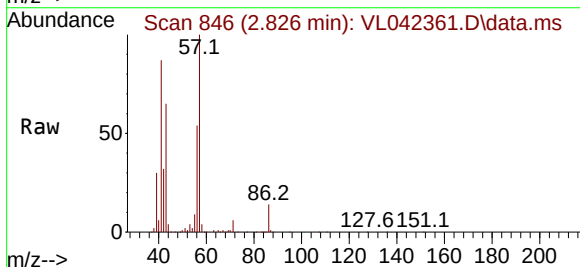
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

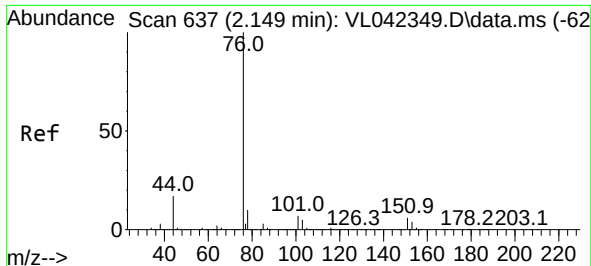
Tgt Ion: 43	Resp: 41711
Ion Ratio	Lower Upper
43	100
45	1.7 8.3 12.5#
61	1.2 7.3 10.9#
70	3.3 7.0 10.6#



#26
Hexane
Concen: 2.977 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion: 57	Resp: 57707
Ion Ratio	Lower Upper
57	100
41	91.6 77.9 116.9
43	72.6 208.4 312.6#
56	54.9 43.1 64.7

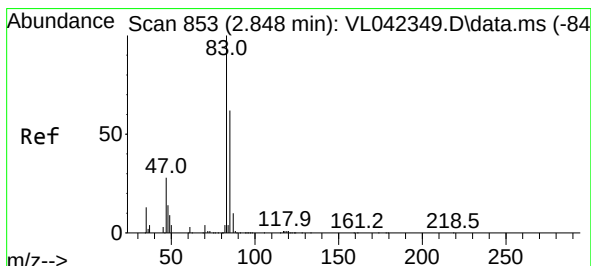
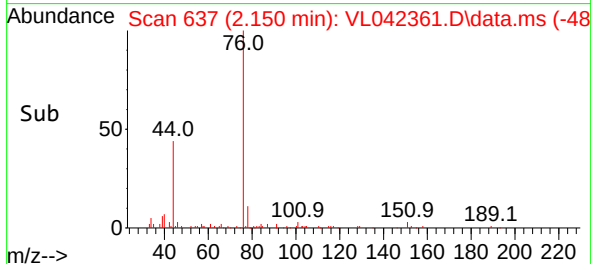
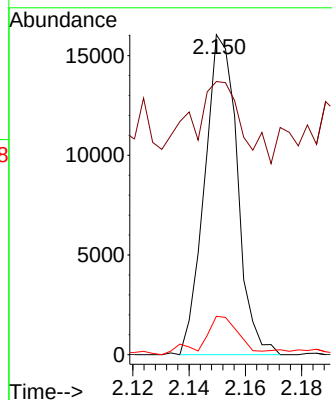
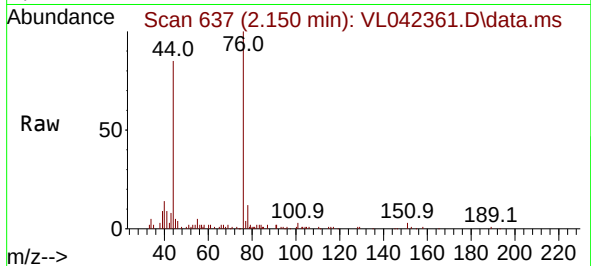




#27
Carbon Disulfide
Concen: 0.626 ppbv
RT: 2.150 min Scan# 611
Delta R.T. 0.000 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

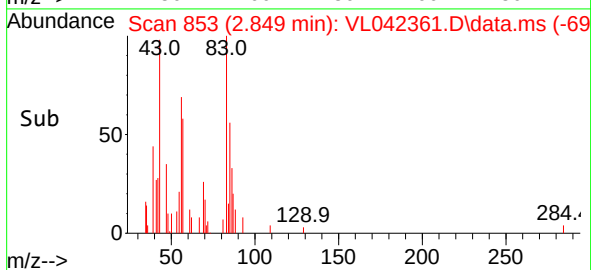
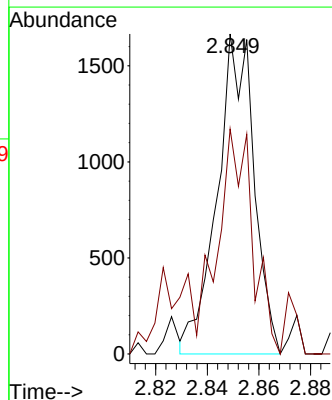
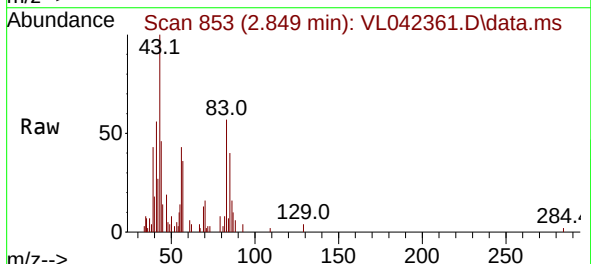
Instrument :
MSVOA_L
ClientSampleId :
LA-B1-4-3252025

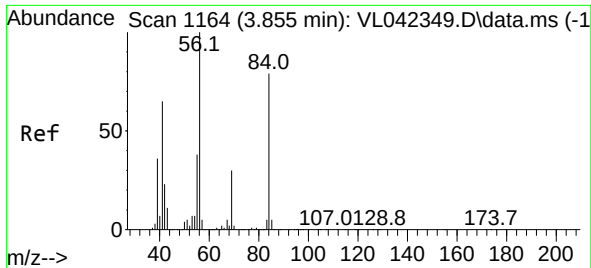
Tgt Ion: 76 Resp: 12989
Ion Ratio Lower Upper
76 100
44 112.3 15.5 23.3#
78 16.4 9.3 13.9#



#29
Chloroform
Concen: 0.060 ppbv
RT: 2.849 min Scan# 853
Delta R.T. 0.000 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion: 83 Resp: 1642
Ion Ratio Lower Upper
83 100
85 70.3 50.0 75.0

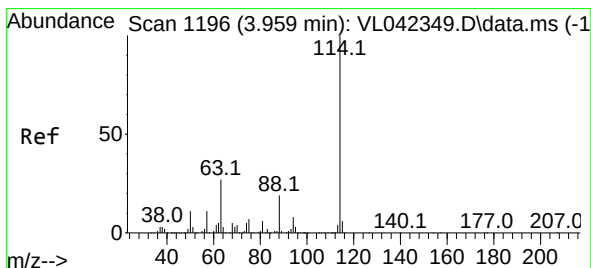
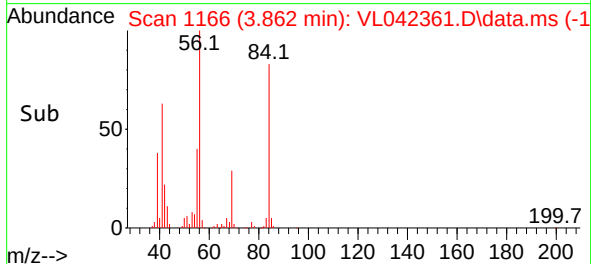
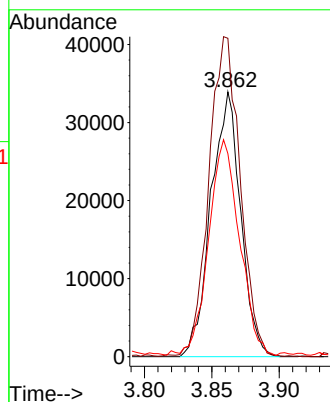
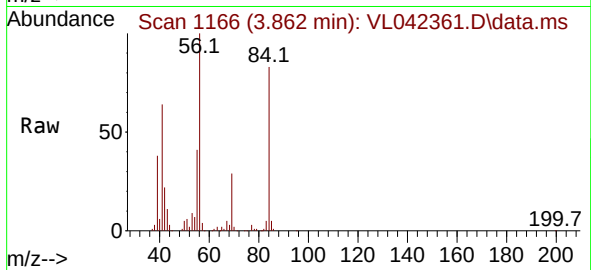




#30
Cyclohexane
Concen: 3.319 ppbv
RT: 3.862 min Scan# 1166
Delta R.T. 0.007 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

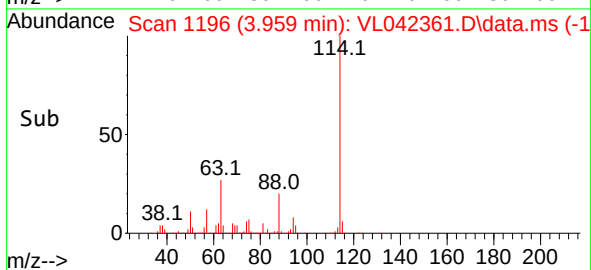
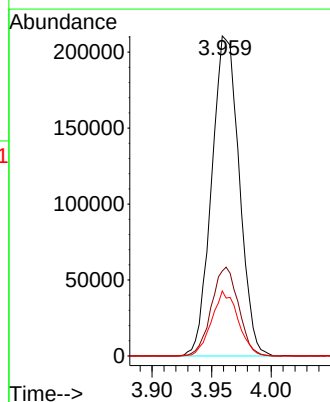
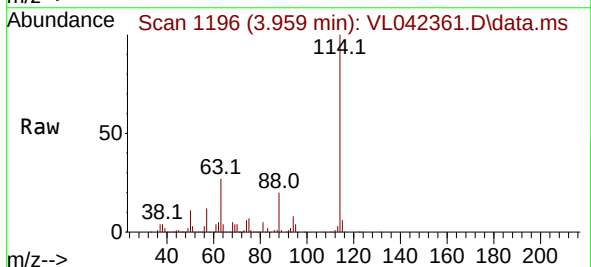
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

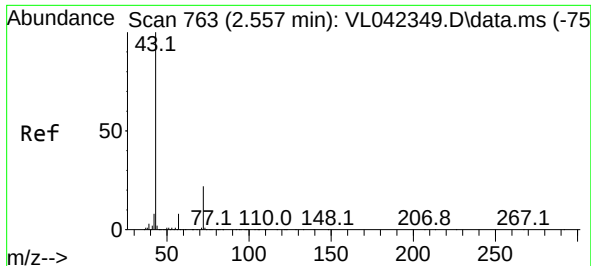
Tgt Ion: 84 Resp: 52016
Ion Ratio Lower Upper
84 100
56 127.7 101.0 151.4
41 84.4 67.4 101.0



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. 0.000 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion: 114 Resp: 339191
Ion Ratio Lower Upper
114 100
63 27.2 21.8 32.6
88 19.5 15.5 23.3

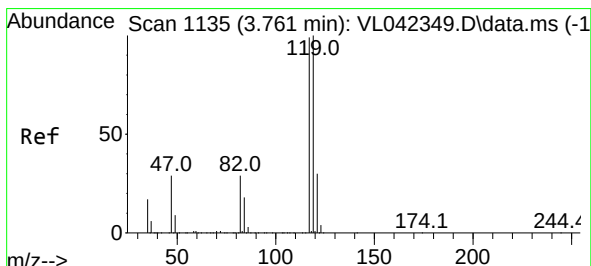
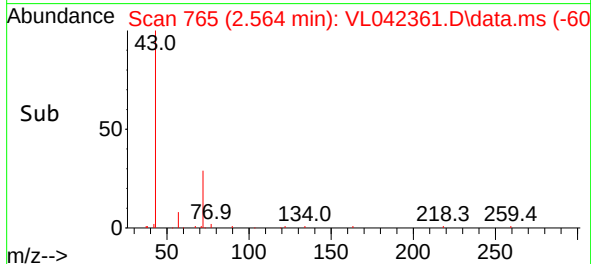
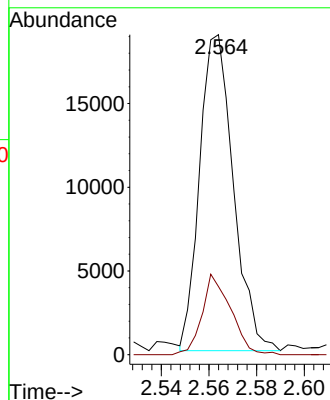
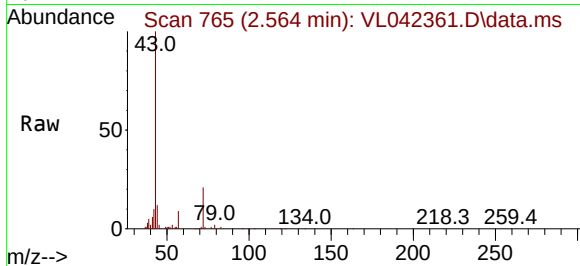




#34
2-Butanone
Concen: 0.693 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.007 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

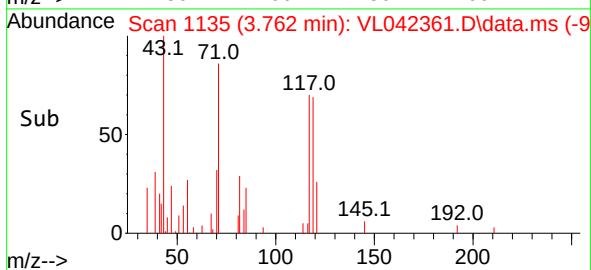
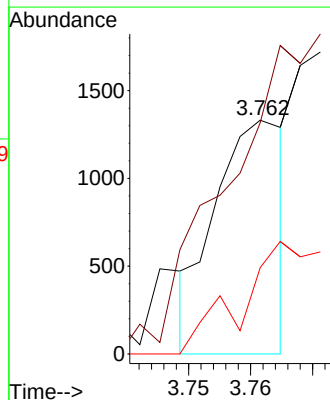
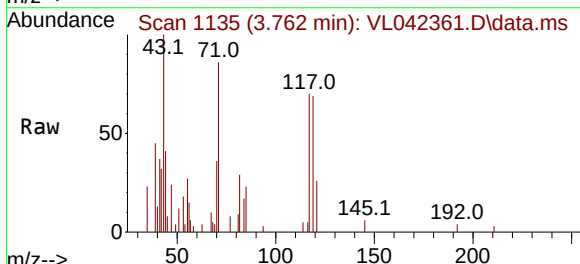
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

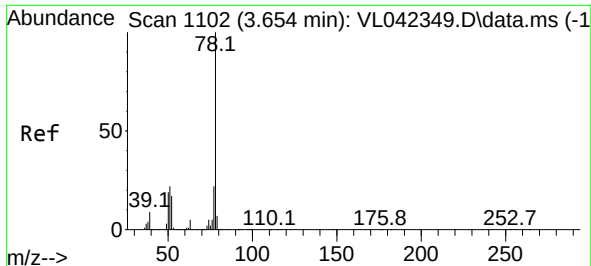
Tgt Ion: 43 Resp: 18598
Ion Ratio Lower Upper
43 100
72 21.7 18.2 27.2



#35
Carbon Tetrachloride
Concen: 0.034 ppbv
RT: 3.762 min Scan# 1135
Delta R.T. 0.000 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion: 117 Resp: 1037
Ion Ratio Lower Upper
117 100
119 84.2 80.5 120.7
121 57.1 24.2 36.2#





#36

Benzene

Concen: 0.561 ppbv

RT: 3.658 min Scan# 1103

Delta R.T. 0.004 min

Lab File: VL042361.D

Acq: 17 Apr 2025 17:17

Instrument :

MSVOA_L

ClientSampleId :

IA-B1-4-3252025

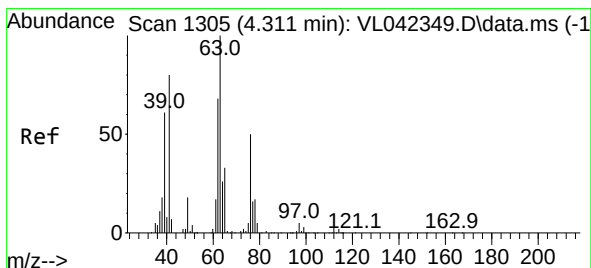
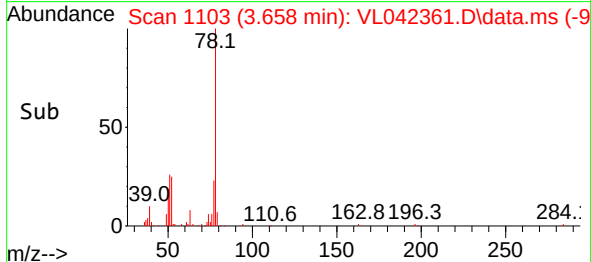
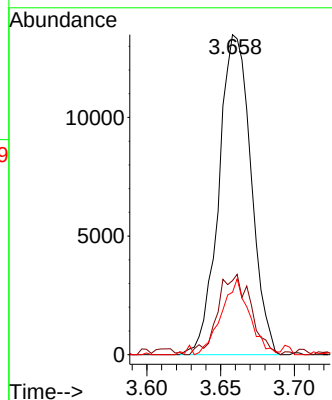
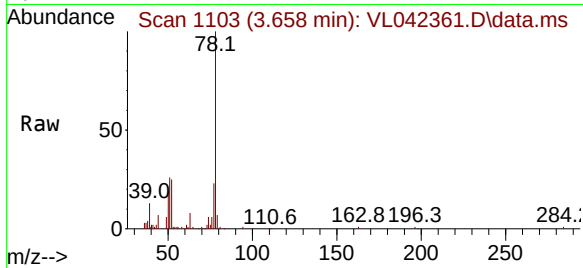
Tgt Ion: 78 Resp: 20521

Ion Ratio Lower Upper

78 100

77 23.1 17.4 26.0

50 18.7 15.5 23.3



#39

1,2-Dichloropropane

Concen: 6.775 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. -0.349 min

Lab File: VL042361.D

Acq: 17 Apr 2025 17:17

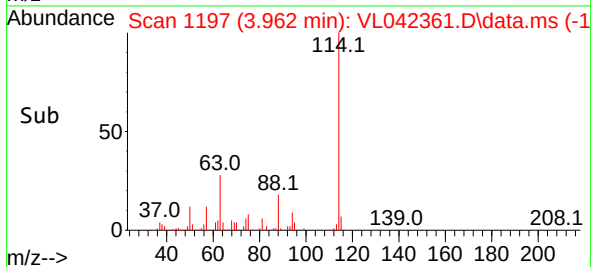
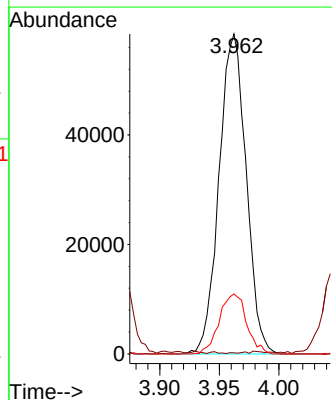
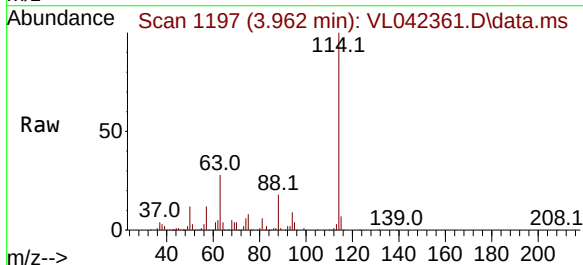
Tgt Ion: 63 Resp: 92371

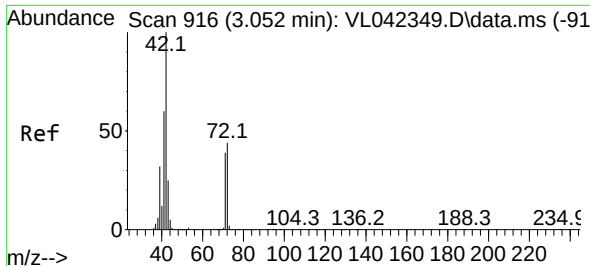
Ion Ratio Lower Upper

63 100

41 0.0 64.2 96.2#

62 18.7 54.3 81.5#

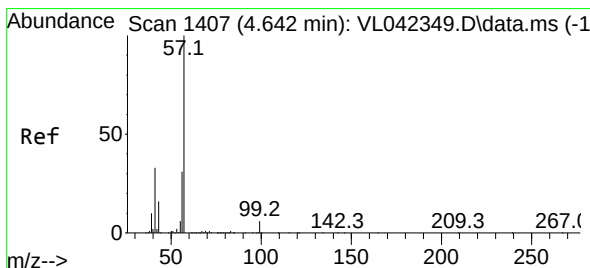
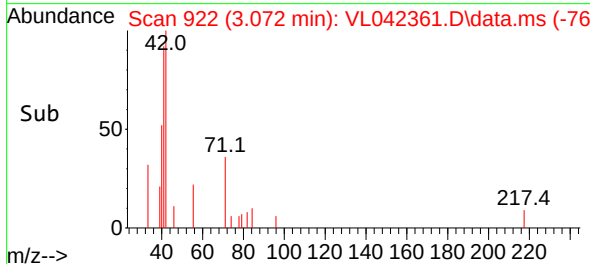
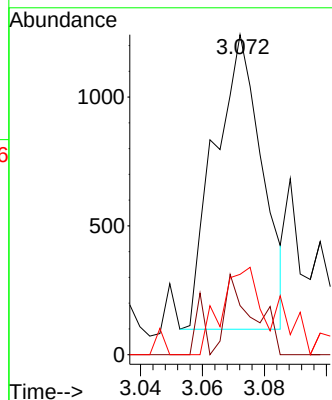
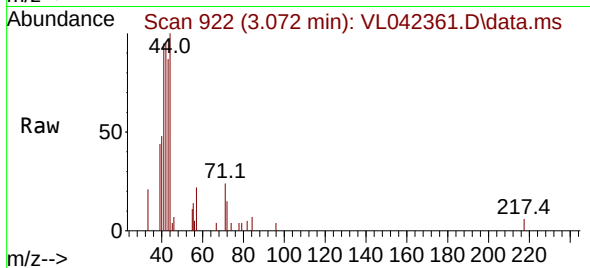




#41
Tetrahydrofuran
Concen: 0.078 ppbv
RT: 3.072 min Scan# 916
Delta R.T. 0.020 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

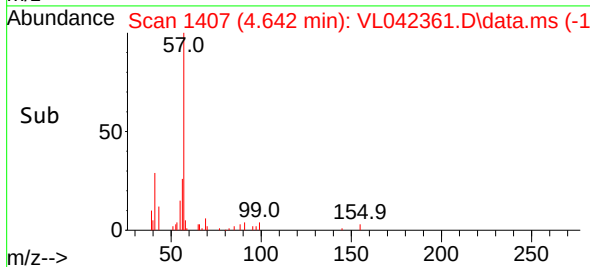
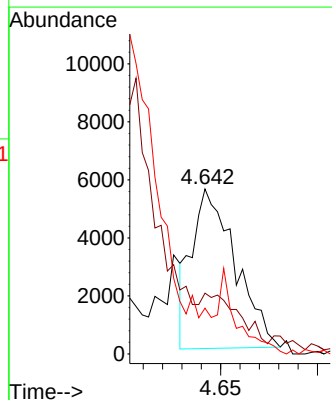
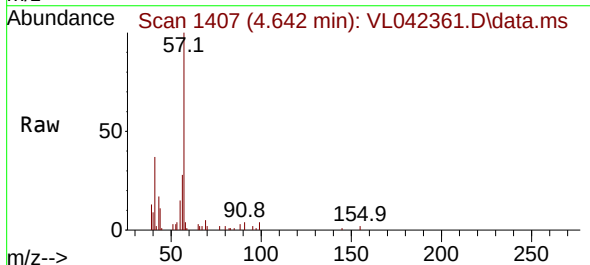
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

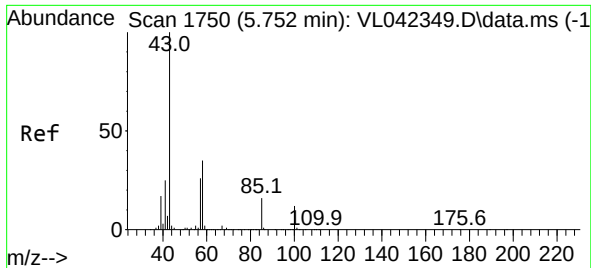
Tgt Ion: 42 Resp: 1220
Ion Ratio Lower Upper
42 100
72 19.9 32.3 48.5#
71 35.8 31.4 47.2



#44
2,2,4-Trimethylpentane
Concen: 0.136 ppbv
RT: 4.642 min Scan# 1407
Delta R.T. 0.000 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion: 57 Resp: 8612
Ion Ratio Lower Upper
57 100
41 0.0 27.2 40.8#
56 0.0 25.7 38.5#

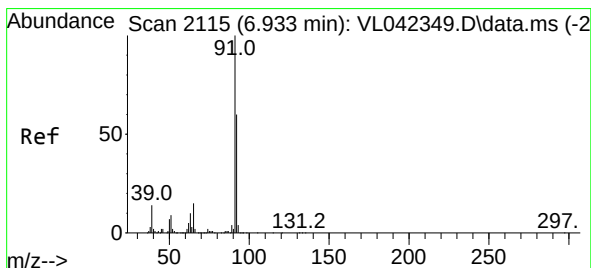
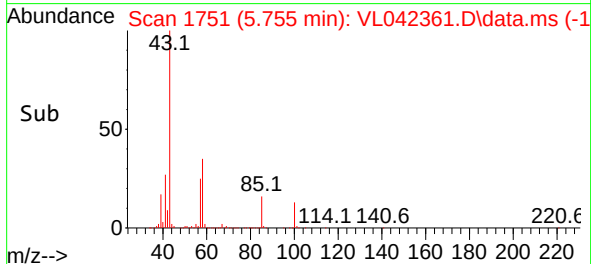
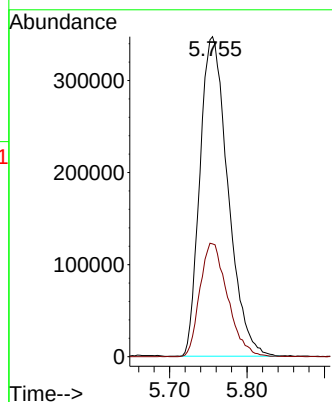
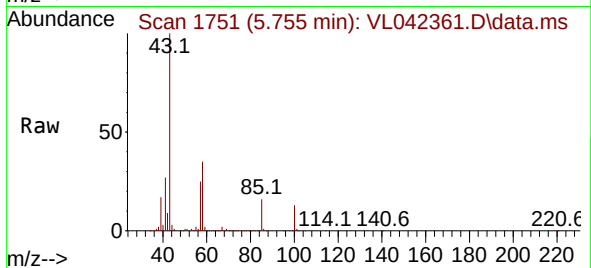




#50
4-Methyl-2-Pentanone
Concen: 19.593 ppbv
RT: 5.755 min Scan# 1751
Delta R.T. 0.004 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

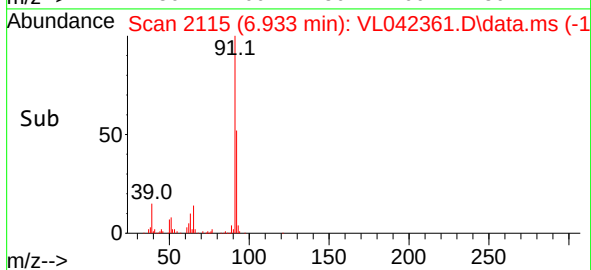
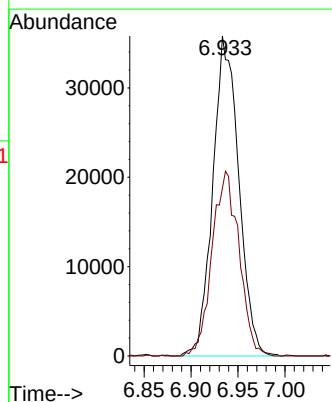
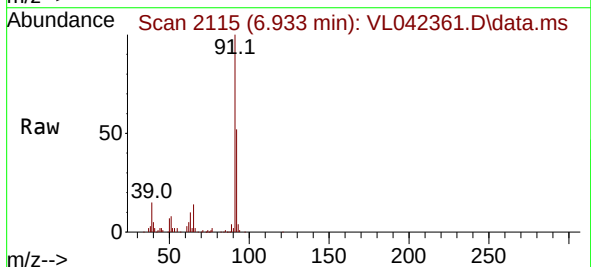
Instrument :
MSVOA_L
ClientSampleId :
LA-B1-4-3252025

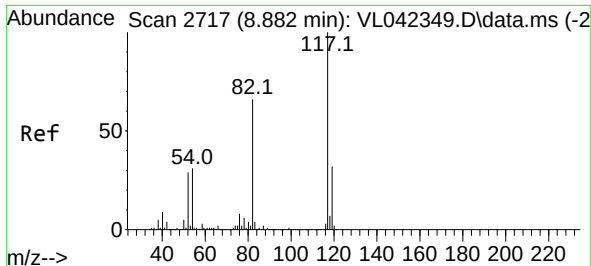
Tgt Ion: 43 Resp: 873418
Ion Ratio Lower Upper
43 100
58 35.2 28.6 43.0



#53
Toluene
Concen: 1.565 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. 0.000 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion: 91 Resp: 68700
Ion Ratio Lower Upper
91 100
92 59.9 48.2 72.4

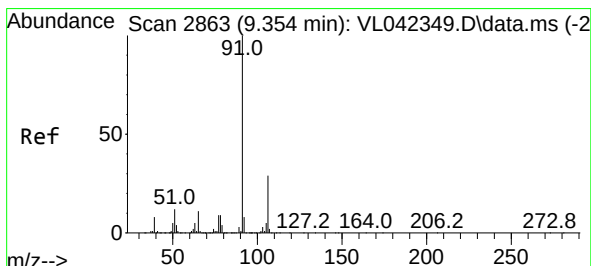
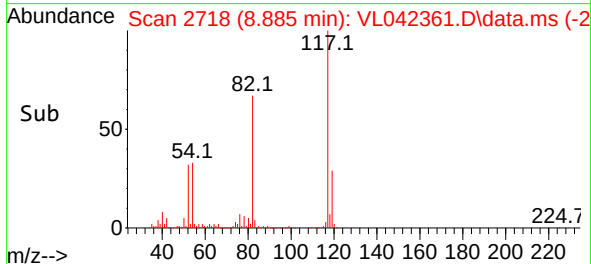
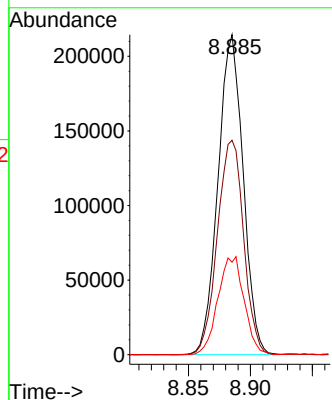
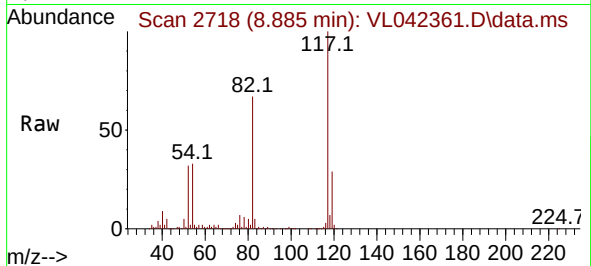




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 211
Delta R.T. 0.004 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

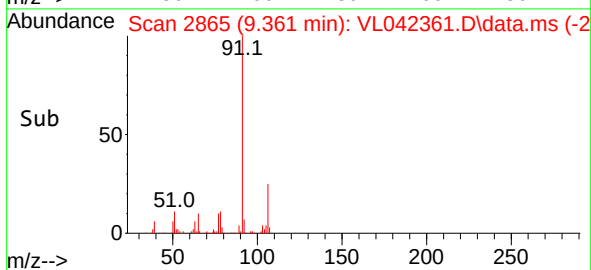
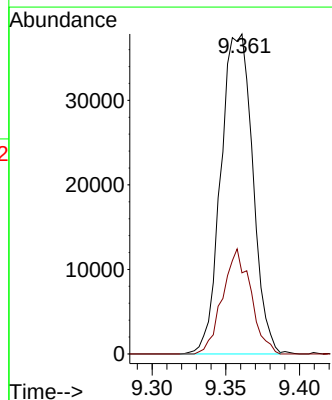
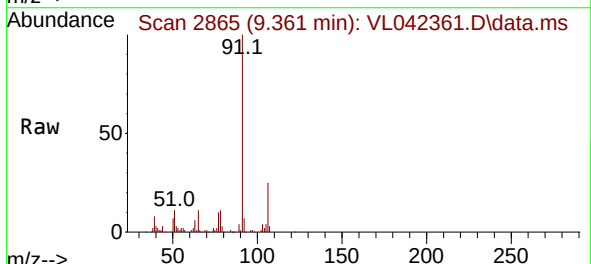
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

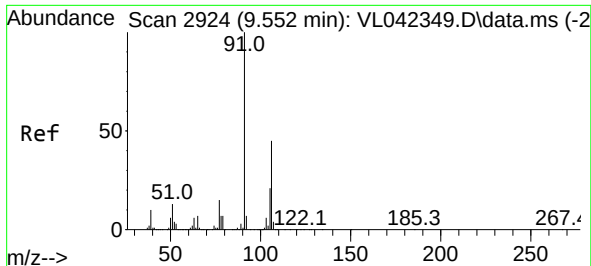
Tgt Ion:117 Resp: 303501
Ion Ratio Lower Upper
117 100
82 70.1 57.8 86.6
119 32.1 25.2 37.8



#58
Ethyl Benzene
Concen: 0.944 ppbv
RT: 9.361 min Scan# 2865
Delta R.T. 0.007 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion: 91 Resp: 56772
Ion Ratio Lower Upper
91 100
106 25.4 23.0 34.4





#59

m/p-Xylene

Concen: 9.382 ppbv

RT: 9.536 min Scan# 2919

Delta R.T. -0.016 min

Lab File: VL042361.D

Acq: 17 Apr 2025 17:17

Instrument :

MSVOA_L

ClientSampleId :

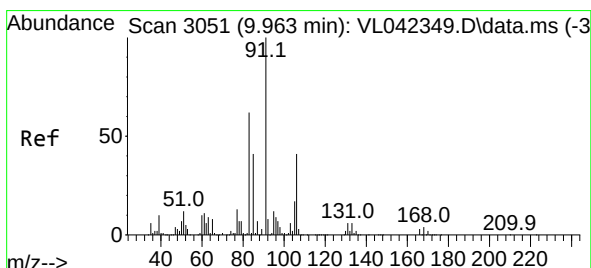
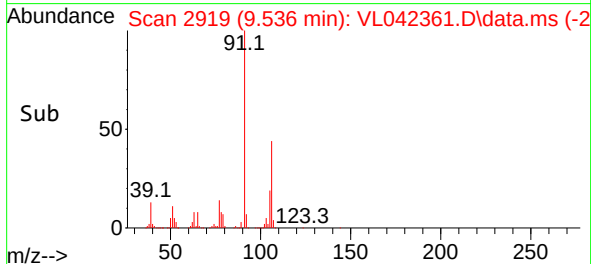
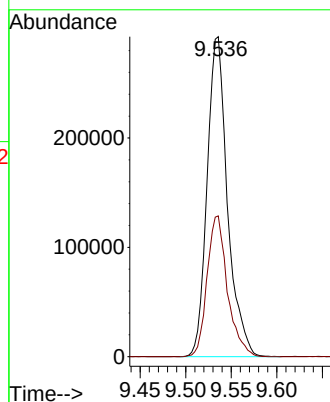
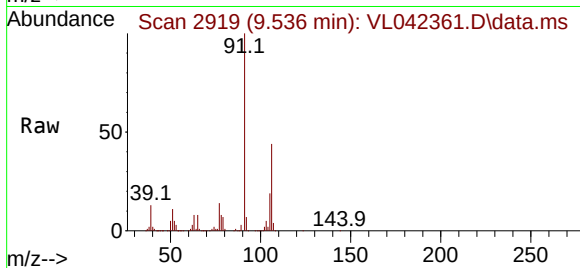
LA-B1-4-3252025

Tgt Ion: 91 Resp: 454491

Ion Ratio Lower Upper

91 100

106 44.0 35.4 53.2



#60

o-Xylene

Concen: 1.966 ppbv

RT: 9.966 min Scan# 3052

Delta R.T. 0.004 min

Lab File: VL042361.D

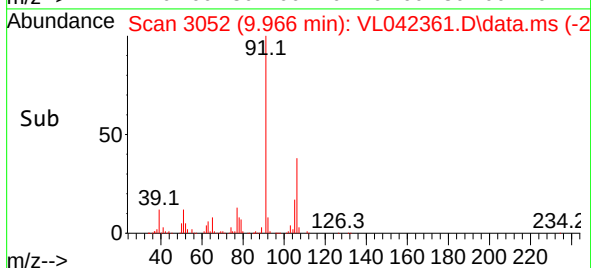
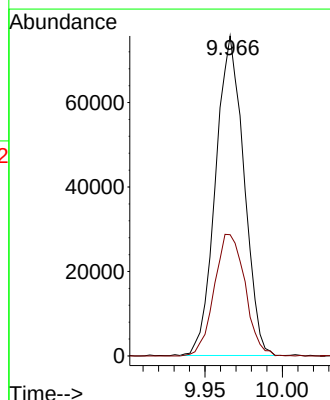
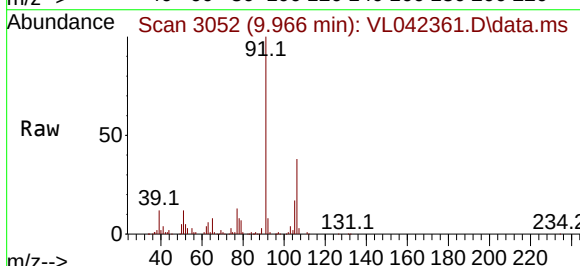
Acq: 17 Apr 2025 17:17

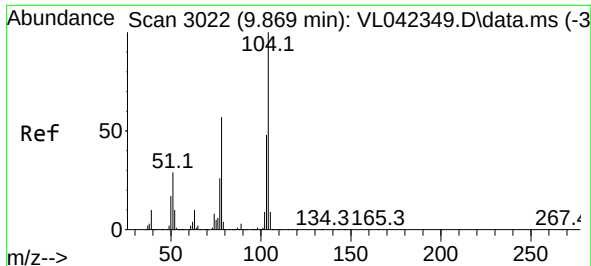
Tgt Ion: 91 Resp: 95896

Ion Ratio Lower Upper

91 100

106 41.6 21.1 63.4

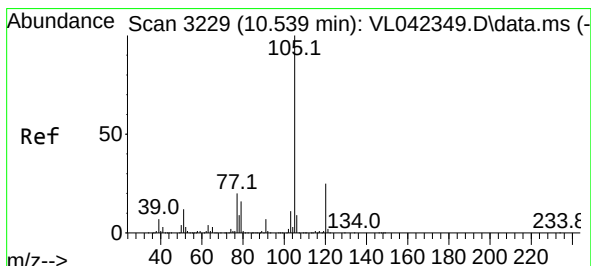
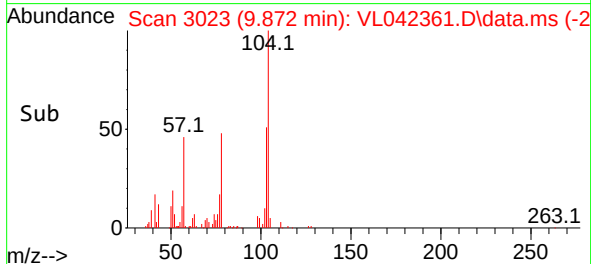
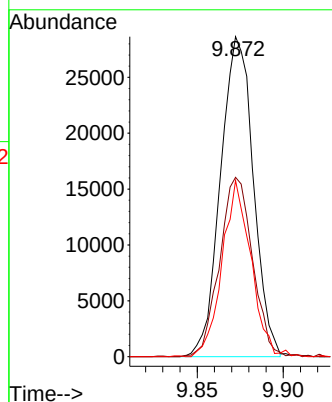
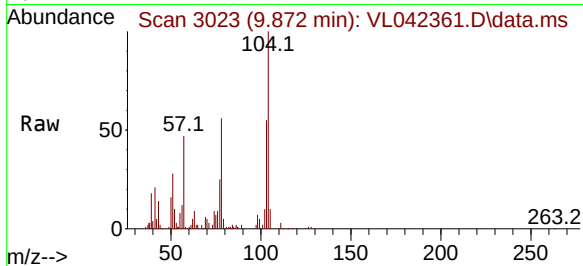




#61
Styrene
Concen: 1.629 ppbv
RT: 9.872 min Scan# 3022
Delta R.T. 0.004 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

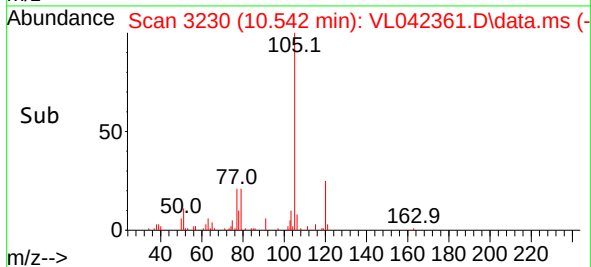
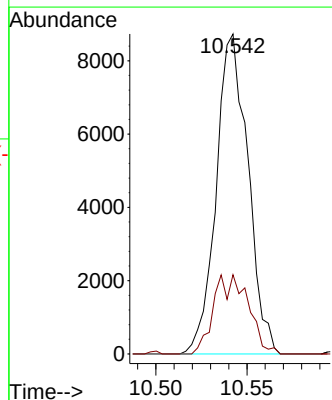
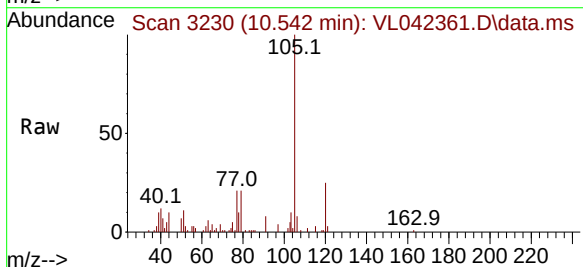
Instrument :
MSVOA_1
ClientSampleId :
IA-B1-4-3252025

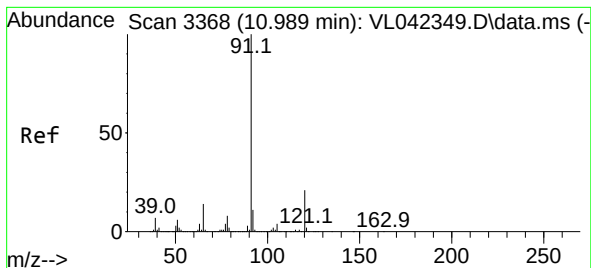
Tgt Ion:104 Resp: 37931
Ion Ratio Lower Upper
104 100
78 56.6 44.6 66.8
103 48.5 37.4 56.0



#62
Isopropylbenzene
Concen: 0.148 ppbv
RT: 10.542 min Scan# 3230
Delta R.T. 0.004 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion:105 Resp: 10580
Ion Ratio Lower Upper
105 100
120 27.2 19.8 29.8





#64

n-propylbenzene

Concen: 0.527 ppbv

RT: 10.992 min Scan# 31

Delta R.T. 0.004 min

Lab File: VL042361.D

Acq: 17 Apr 2025 17:17

Instrument :

MSVOA_1

ClientSampleId :

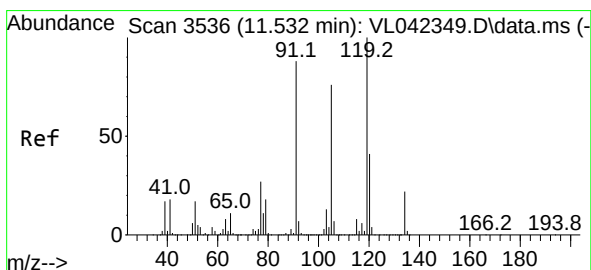
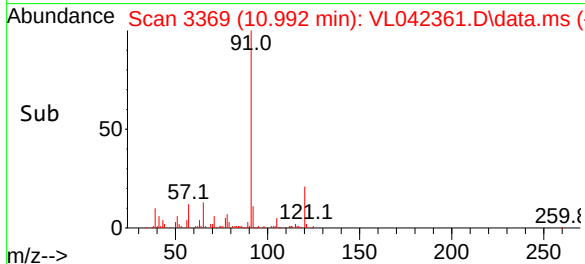
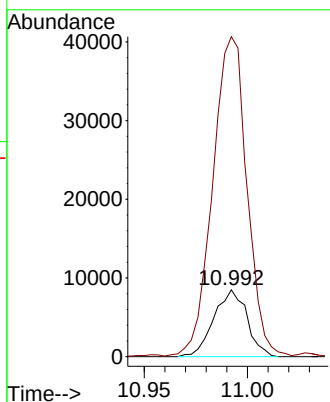
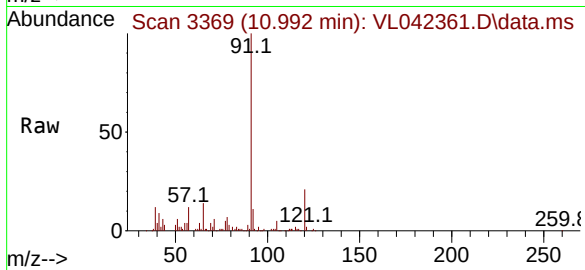
IA-B1-4-3252025

Tgt Ion:120 Resp: 9483

Ion Ratio Lower Upper

120 100

91 500.9 392.4 588.6



#65

tert-Butylbenzene

Concen: 0.389 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. 0.007 min

Lab File: VL042361.D

Acq: 17 Apr 2025 17:17

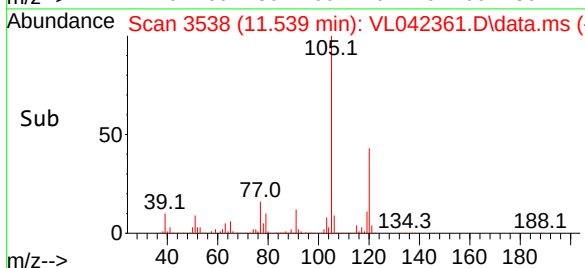
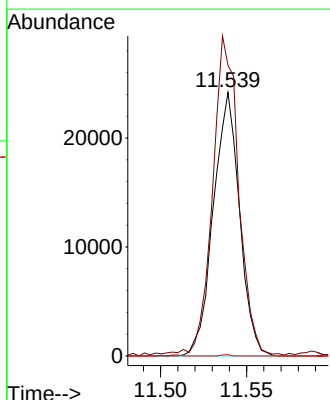
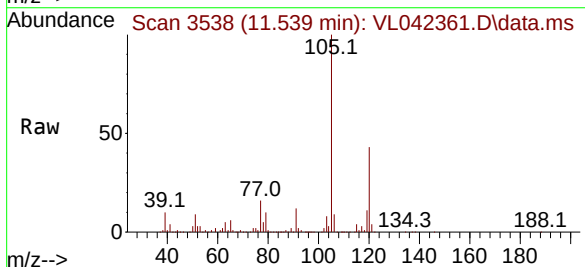
Tgt Ion:119 Resp: 25601

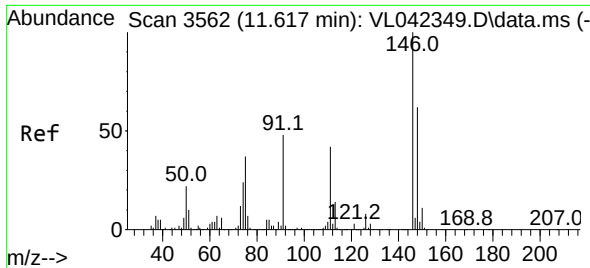
Ion Ratio Lower Upper

119 100

91 120.1 74.6 111.8#

134 0.0 18.8 28.2#

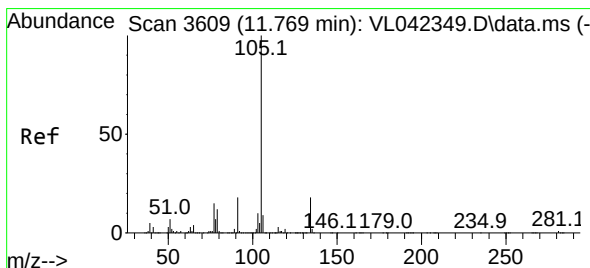
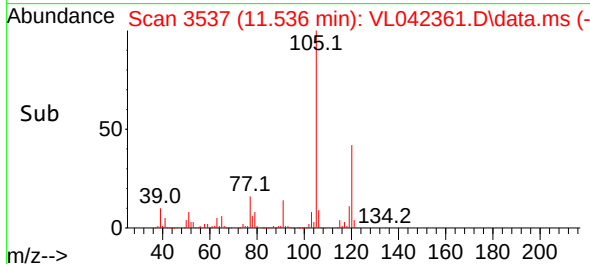
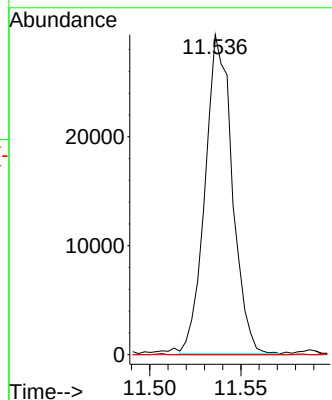
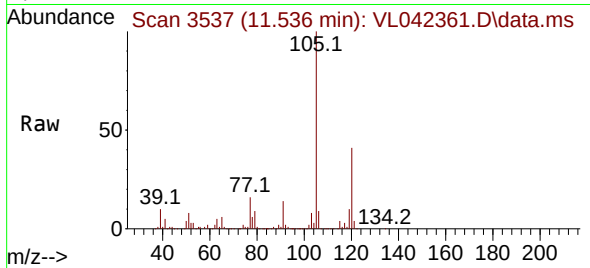




#66
Benzyl Chloride
Concen: 4.204 ppbv
RT: 11.536 min Scan# 3562
Delta R.T. -0.081 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

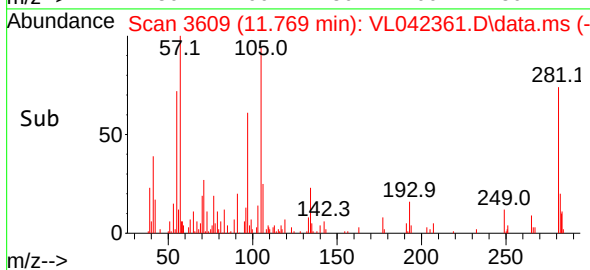
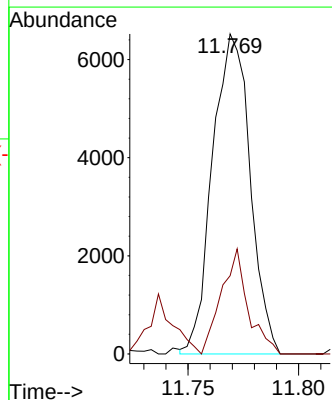
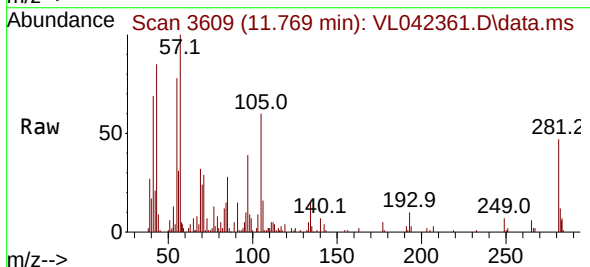
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

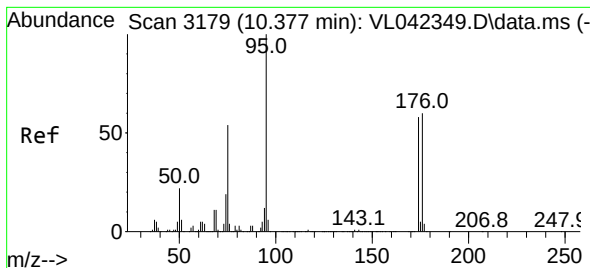
Tgt Ion: 91 Resp: 30407
Ion Ratio Lower Upper
91 100
126 0.2 11.8 17.6#
128 0.0 4.5 6.7#



#67
sec-Butylbenzene
Concen: 0.084 ppbv
RT: 11.769 min Scan# 3609
Delta R.T. 0.000 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion: 105 Resp: 7719
Ion Ratio Lower Upper
105 100
134 35.6 14.6 21.8#

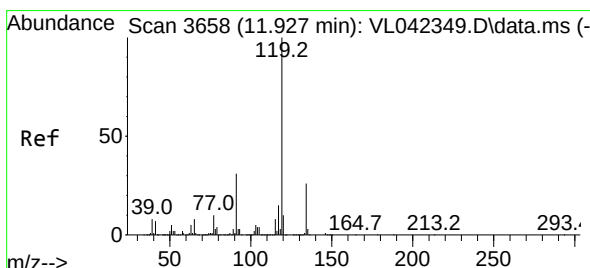
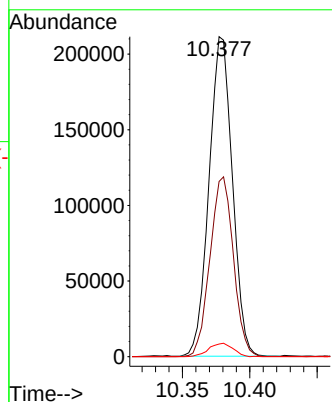
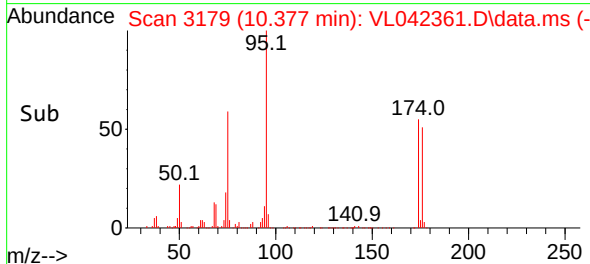
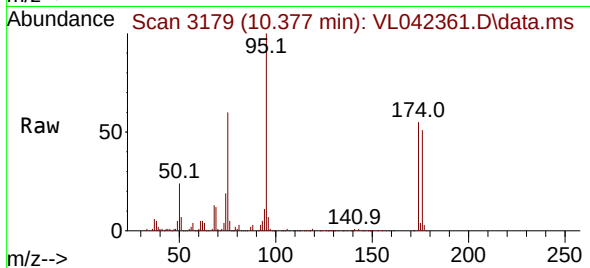




#68
1-Bromo-4-Fluorobenzene
Concen: 10.201 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.000 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

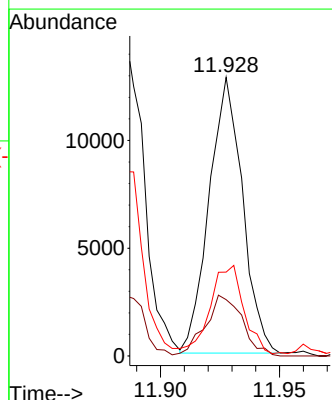
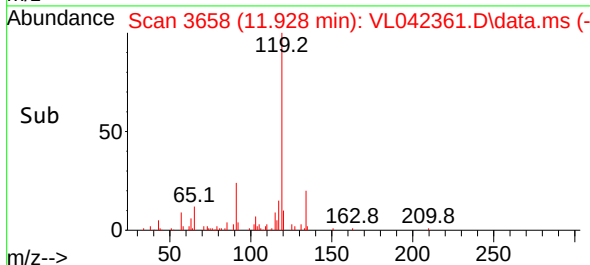
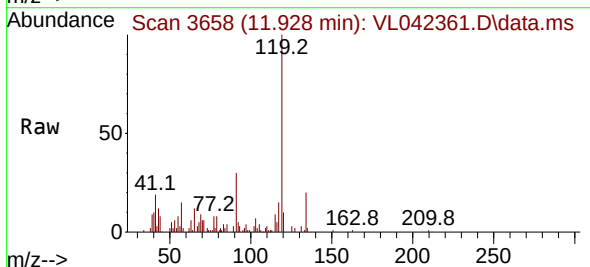
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025

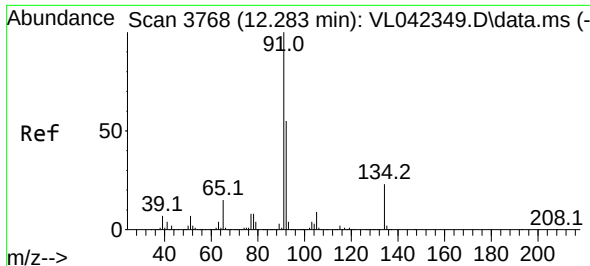
Tgt Ion: 95 Resp: 254412
Ion Ratio Lower Upper
95 100
174 56.7 48.5 72.7
175 4.4 3.7 5.5



#69
p-Isopropyltoluene
Concen: 0.157 ppbv
RT: 11.928 min Scan# 3658
Delta R.T. 0.000 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion: 119 Resp: 12502
Ion Ratio Lower Upper
119 100
134 24.0 20.0 30.0
91 30.2 24.4 36.6

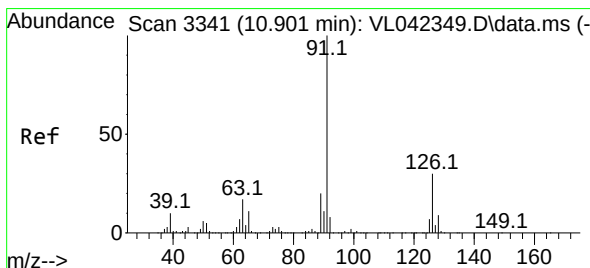
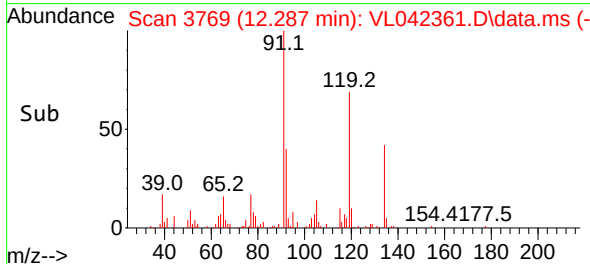
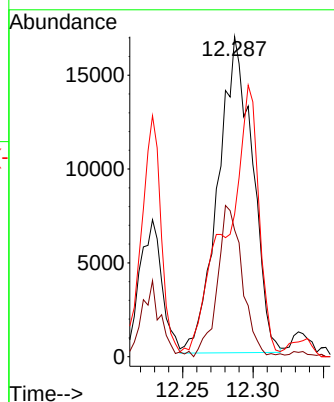
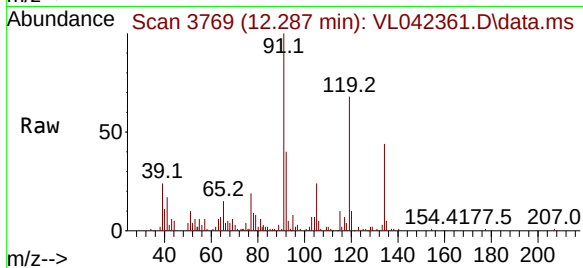




#70
n-Butylbenzene
Concen: 0.345 ppbv
RT: 12.287 min Scan# 31
Delta R.T. 0.004 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

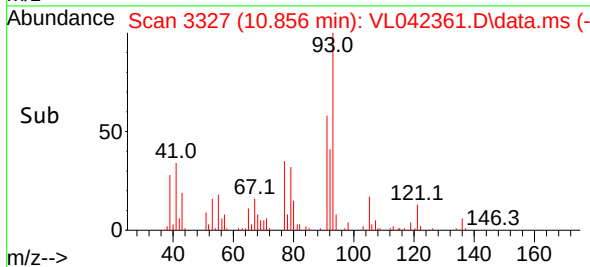
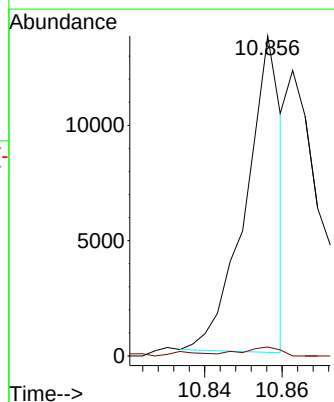
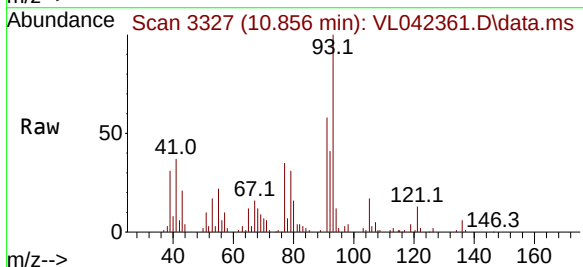
Instrument :
MSVOA_1
ClientSampleId :
IA-B1-4-3252025

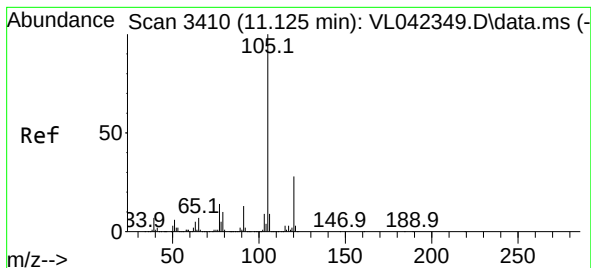
Tgt Ion: 91 Resp: 28567
Ion Ratio Lower Upper
91 100
92 35.2 44.2 66.4#
134 84.2 18.2 27.4#



#71
2-Chlorotoluene
Concen: 0.156 ppbv
RT: 10.856 min Scan# 3327
Delta R.T. -0.045 min
Lab File: VL042361.D
Acq: 17 Apr 2025 17:17

Tgt Ion: 91 Resp: 8756
Ion Ratio Lower Upper
91 100
126 35.4 11.4 45.4





#72

4-Ethyltoluene

Concen: 1.028 ppbv

RT: 11.128 min Scan# 3410

Delta R.T. 0.004 min

Lab File: VL042361.D

Acq: 17 Apr 2025 17:17

Instrument :

MSVOA_L

ClientSampleId :

IA-B1-4-3252025

Tgt Ion:105 Resp: 61306

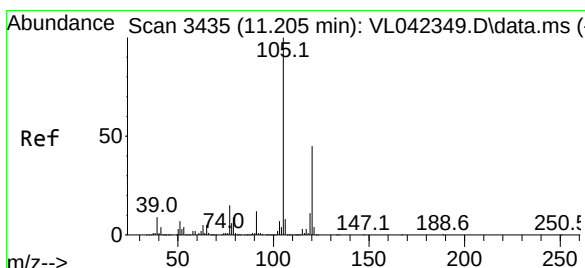
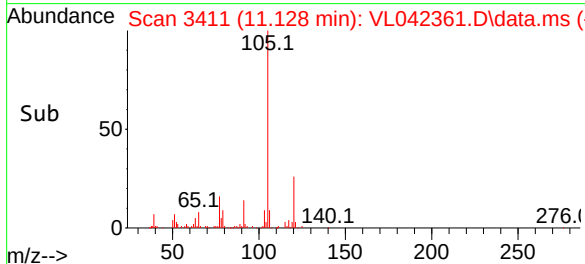
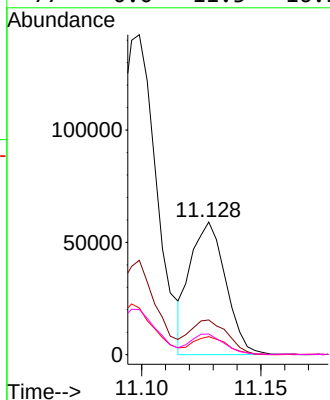
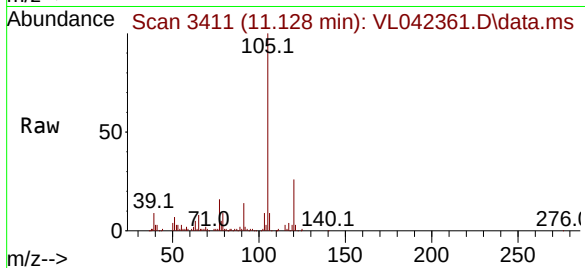
Ion Ratio Lower Upper

105 100

120 0.0 23.2 34.8#

91 0.0 10.4 15.6#

77 0.0 11.3 16.9#



#73

1,3,5-Trimethylbenzene

Concen: 1.287 ppbv

RT: 11.206 min Scan# 3435

Delta R.T. 0.000 min

Lab File: VL042361.D

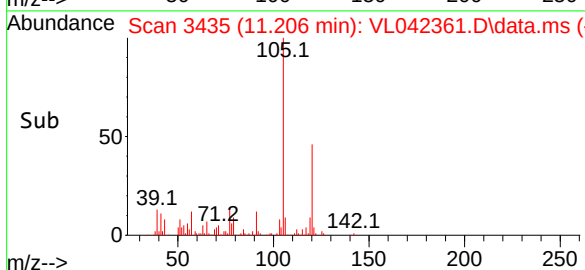
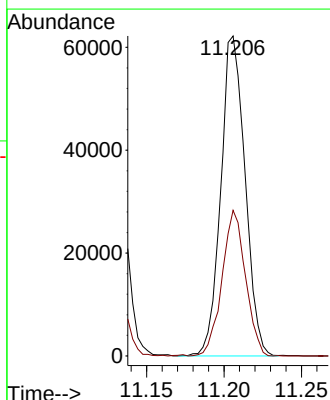
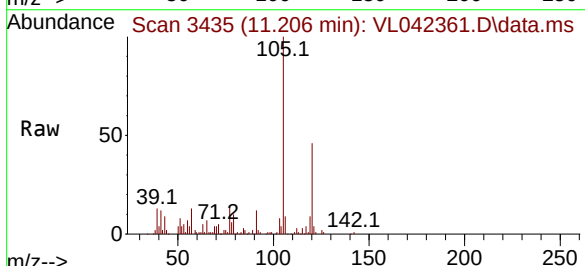
Acq: 17 Apr 2025 17:17

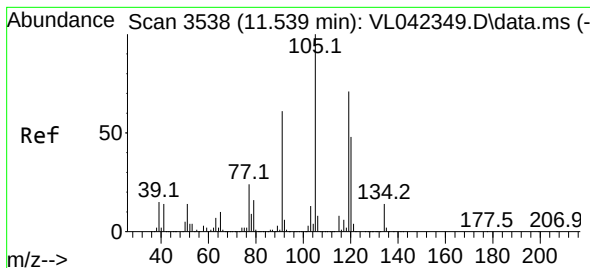
Tgt Ion:105 Resp: 67763

Ion Ratio Lower Upper

105 100

120 45.4 35.6 53.4





#74

1,2,4-Trimethylbenzene

Concen: 3.819 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. 0.000 min

Lab File: VL042361.D

Acq: 17 Apr 2025 17:17

Instrument :

MSVOA_L

ClientSampleId :

IA-B1-4-3252025

Tgt Ion:105 Resp: 234839

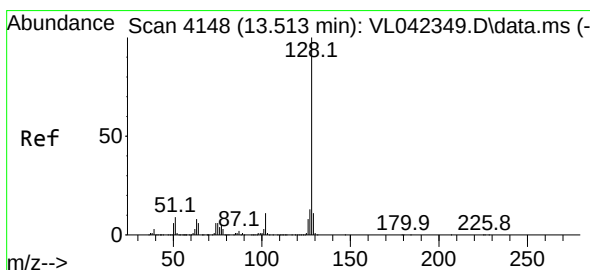
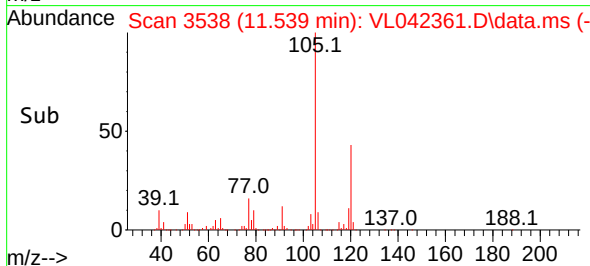
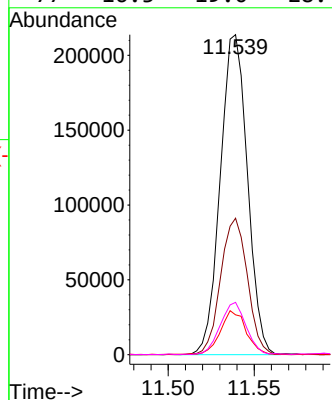
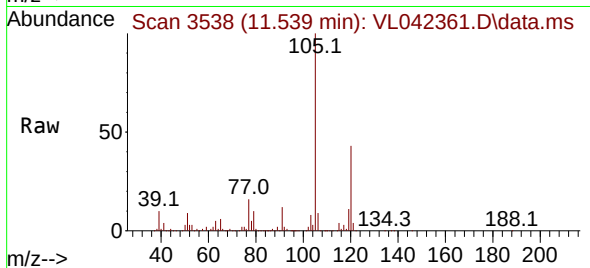
Ion Ratio Lower Upper

105 100

120 42.6 38.1 57.1

91 12.4 48.8 73.2#

77 16.3 19.0 28.4#



#79

Naphthalene

Concen: 0.601 ppbv

RT: 13.517 min Scan# 4149

Delta R.T. 0.004 min

Lab File: VL042361.D

Acq: 17 Apr 2025 17:17

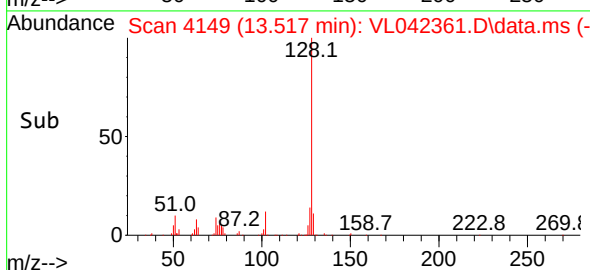
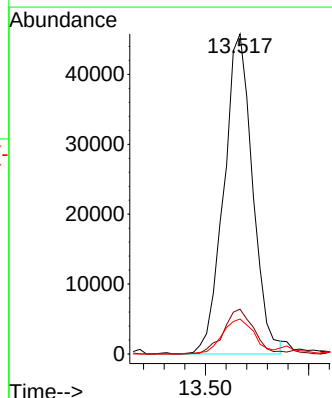
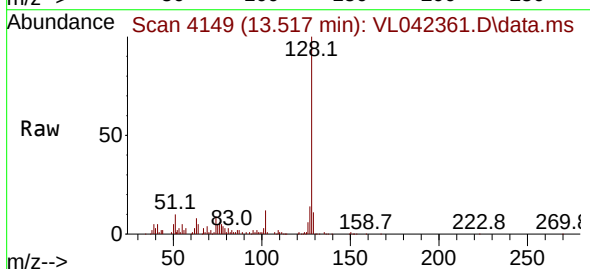
Tgt Ion:128 Resp: 44224

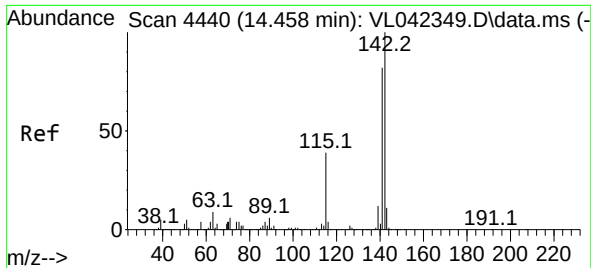
Ion Ratio Lower Upper

128 100

127 14.0 10.6 15.8

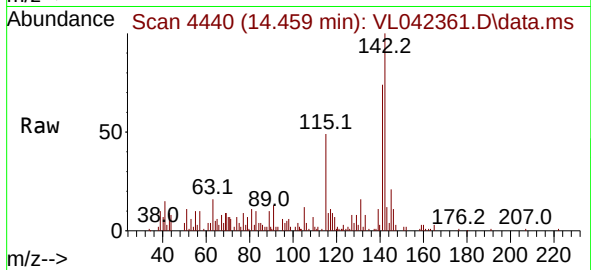
129 10.9 8.6 12.8



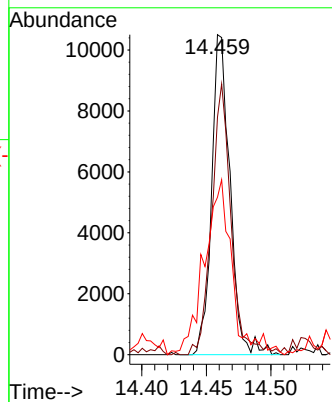
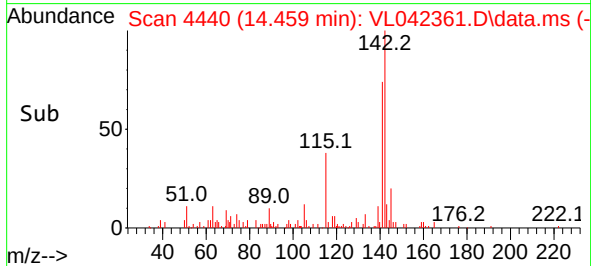


#80
 Naphthalene, 2-methyl-
 Concen: 0.248 ppbv
 RT: 14.459 min Scan# 44
 Delta R.T. 0.000 min
 Lab File: VL042361.D
 Acq: 17 Apr 2025 17:17

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B1-4-3252025



Tgt Ion: 142 Resp: 10408
 Ion Ratio Lower Upper
 142 100
 141 89.8 66.8 100.2
 115 82.6 33.4 50.2#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042362.D
 Acq On : 17 Apr 2025 17:51
 Operator : SY/MD
 Sample : Q1668-01DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B1-4-3252025DUP

Quant Time: Apr 18 02:39:37 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 02:14:00 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	122226	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	344143	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.881	117	303859	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	251359	10.067	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.700%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	9771	0.452	ppbv	92
3) Chlorodifluoromethane	1.476	51	10339	0.503	ppbv #	90
4) Chloromethane	1.534	50	4015	0.470	ppbv	99
7) Chloroethane	1.703	64	144	0.043	ppbv #	44
9) Propene	1.486	41	5149	0.550	ppbv	92
10) Heptane	4.981	43	50613	1.924	ppbv	99
11) Trichlorofluoromethane	1.877	101	4655	0.227	ppbv	97
12) 1,1,2-Trichlorotri fluo...	2.140	101	1142	0.068	ppbv #	80
13) Ethanol	1.722	45	362837	243.762	ppbv	75
15) Acetone	1.835	43	104810	5.238	ppbv	94
16) 1,3-Butadiene	1.599	39	4703	0.491	ppbv #	36
17) tert-Butyl alcohol	2.046	59	3734	0.151	ppbv #	71
19) Isopropyl Alcohol	1.887	45	25172	2.265	ppbv #	6
20) Methylene Chloride	2.062	84	21791	2.781	ppbv	98
21) Allyl Chloride	2.094	41	433	0.031	ppbv #	21
23) Vinyl Acetate	2.473	43	31029	3.831	ppbv #	54
25) Ethyl Acetate	2.826	43	40663	0.824	ppbv #	80
26) Hexane	2.826	57	56908	2.850	ppbv #	34
27) Carbon Disulfide	2.149	76	12830	0.600	ppbv #	1
30) Cyclohexane	3.861	84	54578	3.382	ppbv	100
34) 2-Butanone	2.560	43	18869	0.693	ppbv	96
35) Carbon Tetrachloride	3.764	117	2082	0.067	ppbv #	47
36) Benzene	3.654	78	19730	0.532	ppbv #	91
39) 1,2-Dichloropropane	3.959	63	93126	6.732	ppbv #	23
41) Tetrahydrofuran	3.068	42	892	0.056	ppbv #	61
44) 2,2,4-Trimethylpentane	4.645	57	5625	0.088	ppbv #	42
50) 4-Methyl-2-Pentanone	5.755	43	876965	19.389	ppbv	99
52) Tetrachloroethene	8.224	164	512	0.036	ppbv #	47
53) Toluene	6.936	91	69352	1.557	ppbv	99
58) Ethyl Benzene	9.354	91	57094	0.948	ppbv	99
59) m/p-Xylene	9.532	91	448533	9.248	ppbv	100
60) o-Xylene	9.966	91	96845	1.983	ppbv	100
61) Styrene	9.872	104	37632	1.614	ppbv	98
62) Isopropylbenzene	10.539	105	10762	0.150	ppbv	97
64) n-propylbenzene	10.989	120	9965	0.553	ppbv	95
65) tert-Butylbenzene	11.536	119	25638	0.389	ppbv #	68
66) Benzyl Chloride	11.539	91	29513	4.075	ppbv #	70
67) sec-Butylbenzene	11.769	105	8403	0.092	ppbv #	76
69) p-Isopropyltoluene	11.927	119	12725	0.160	ppbv	93
70) n-Butylbenzene	12.283	91	29311	0.353	ppbv #	44
72) 4-Ethyltoluene	11.124	105	64934	1.088	ppbv #	56
73) 1,3,5-Trimethylbenzene	11.205	105	70431	1.336	ppbv	97
74) 1,2,4-Trimethylbenzene	11.539	105	242011	3.931	ppbv #	61

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042362.D
Acq On : 17 Apr 2025 17:51
Operator : SY/MD
Sample : Q1668-01DUP
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DUP

Quant Time: Apr 18 02:39:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

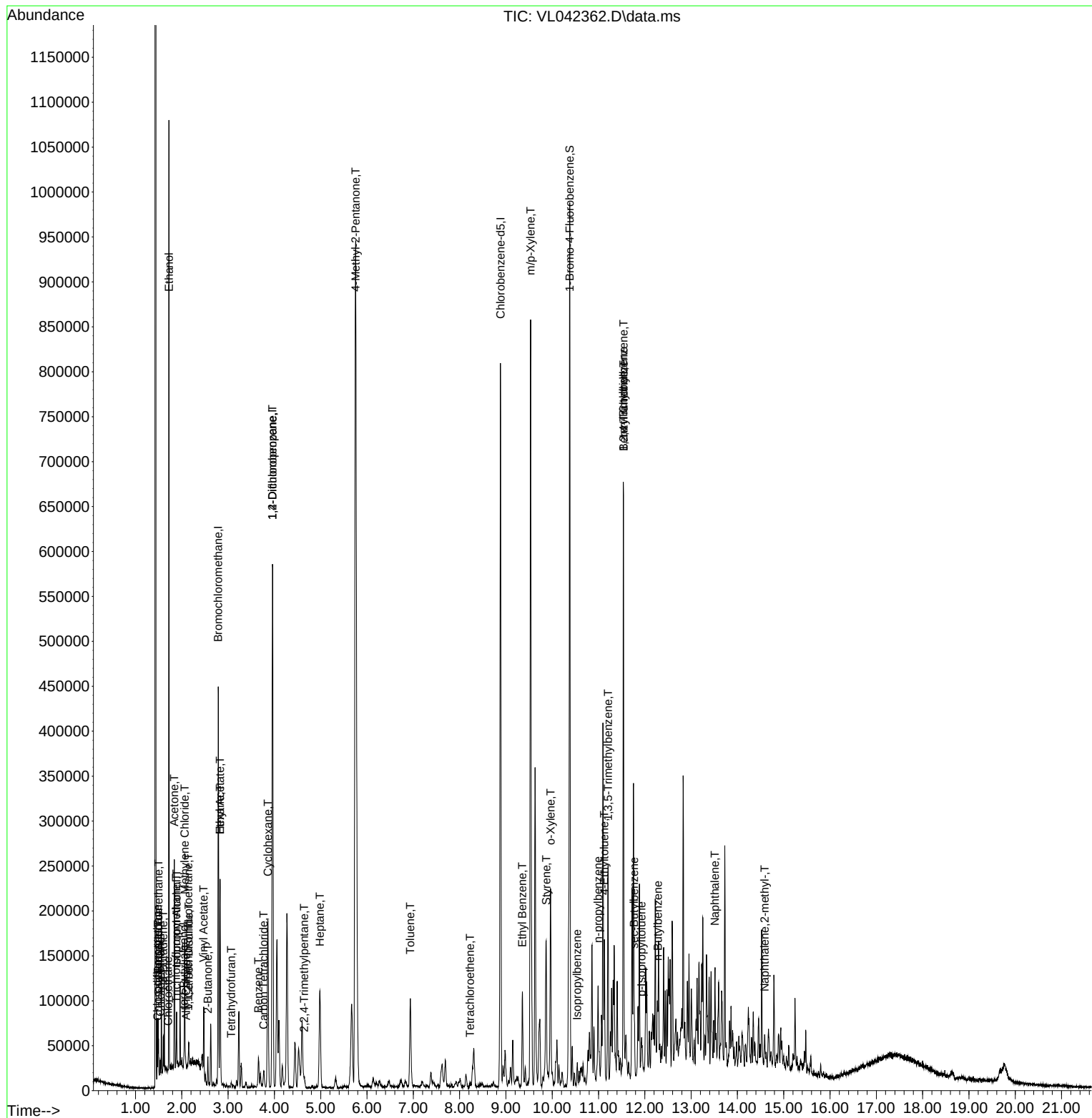
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
79) Naphthalene	13.513	128	46070	0.626	ppbv	# 96
80) Naphthalene,2-methyl-	14.591	142	8081	0.193	ppbv	97

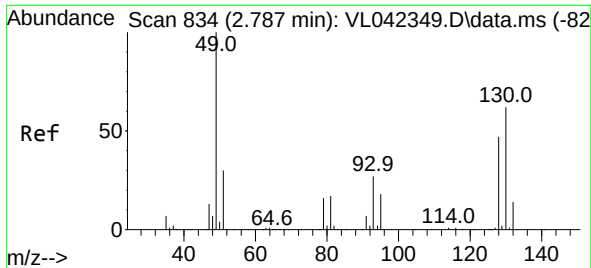
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042362.D
Acq On : 17 Apr 2025 17:51
Operator : SY/MD
Sample : Q1668-01DUP
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DUP

Quant Time: Apr 18 02:39:37 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

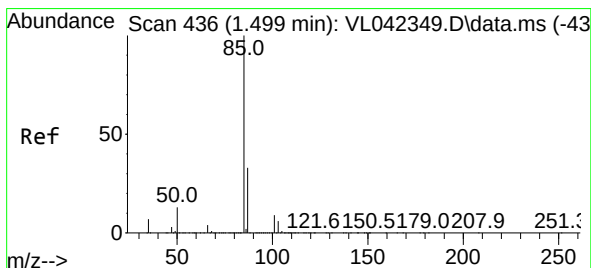
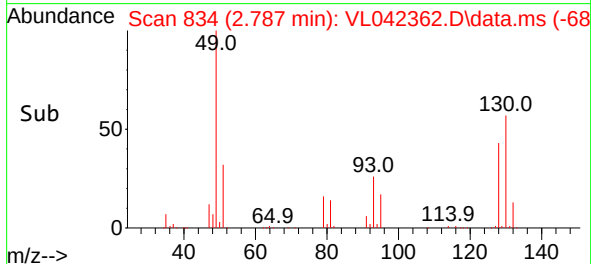
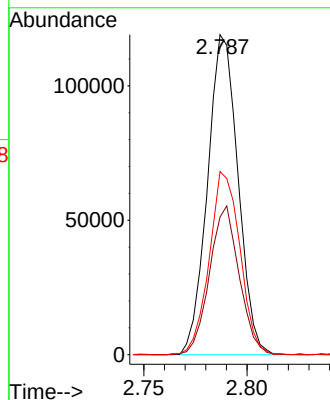
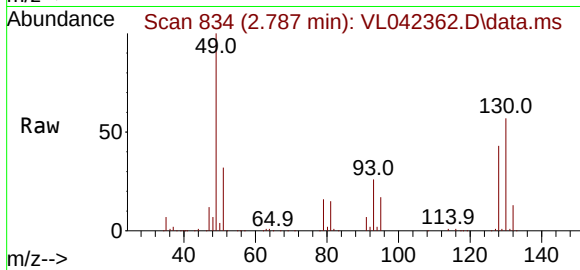




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.787 min Scan# 81
 Delta R.T. -0.000 min
 Lab File: VL042362.D
 Acq: 17 Apr 2025 17:51

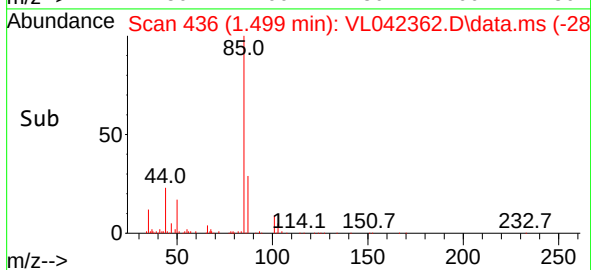
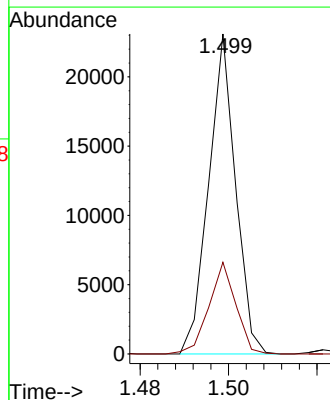
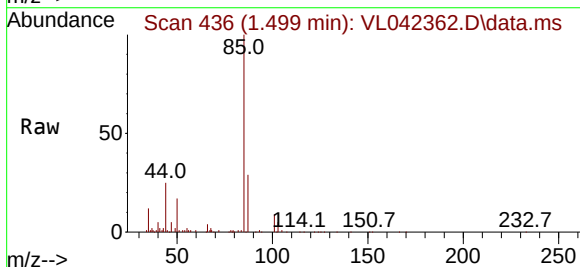
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B1-4-3252025DUP

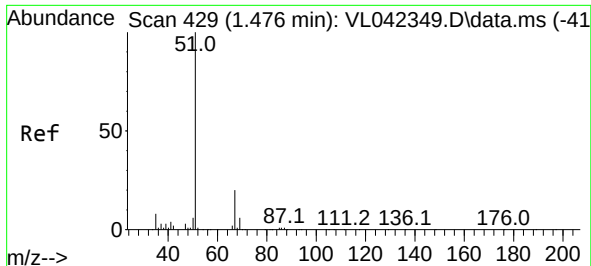
Tgt Ion: 49 Resp: 122226
 Ion Ratio Lower Upper
 49 100
 128 45.2 22.8 68.4
 130 57.7 29.3 88.0



#2
 Dichlorodifluoromethane
 Concen: 0.452 ppbv
 RT: 1.499 min Scan# 436
 Delta R.T. -0.000 min
 Lab File: VL042362.D
 Acq: 17 Apr 2025 17:51

Tgt Ion: 85 Resp: 9771
 Ion Ratio Lower Upper
 85 100
 87 28.7 26.6 39.8

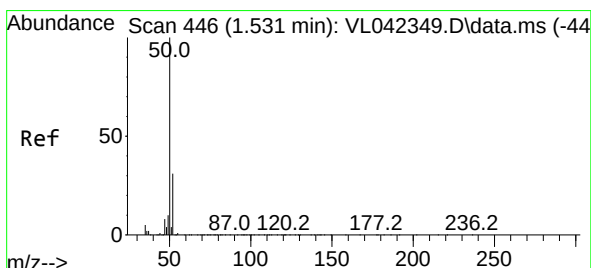
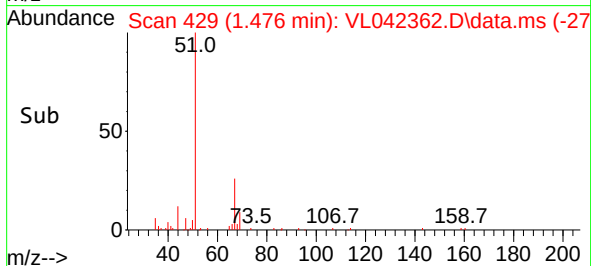
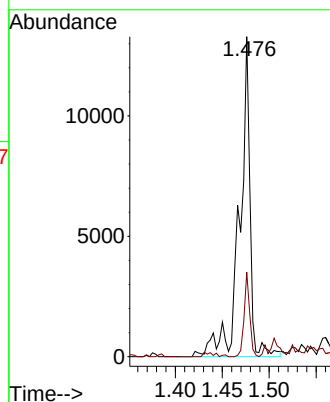
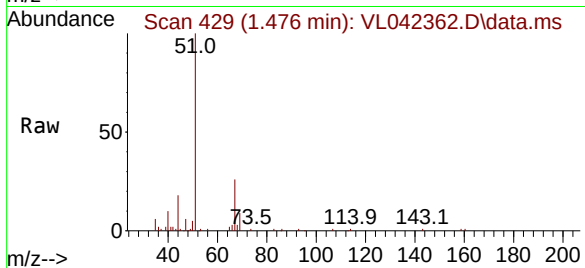




#3
Chlorodifluoromethane
Concen: 0.503 ppbv
RT: 1.476 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

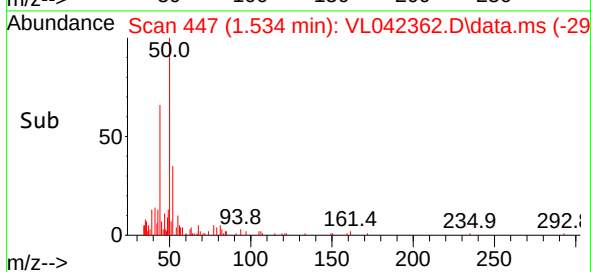
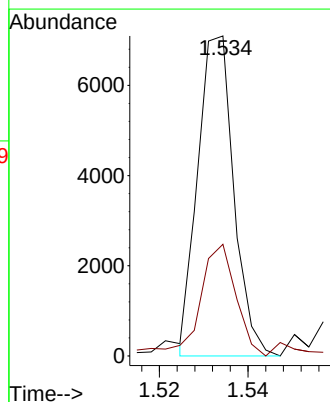
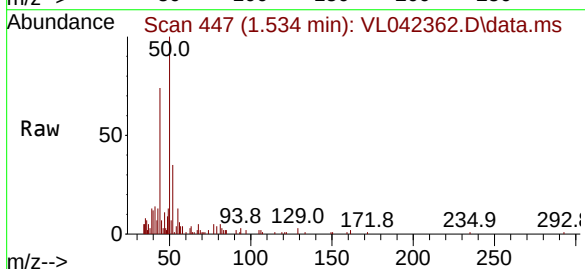
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DUP

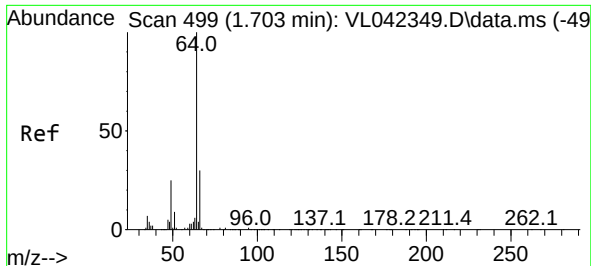
Tgt Ion: 51 Resp: 10339
Ion Ratio Lower Upper
51 100
67 15.6 16.2 24.4#



#4
Chloromethane
Concen: 0.470 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion: 50 Resp: 4015
Ion Ratio Lower Upper
50 100
52 31.6 24.7 37.1

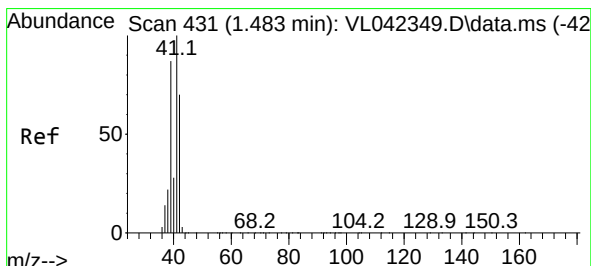
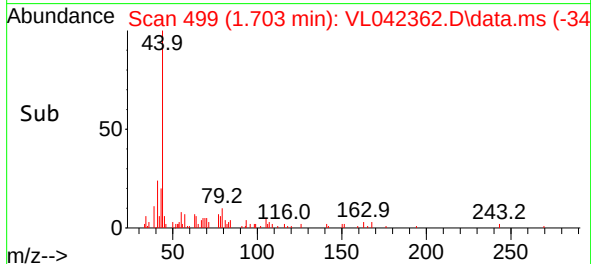
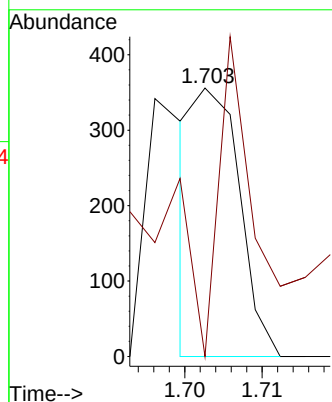
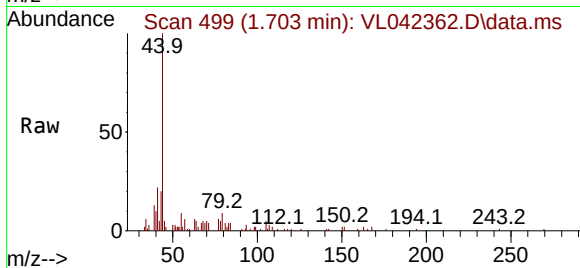




#7
Chloroethane
Concen: 0.043 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

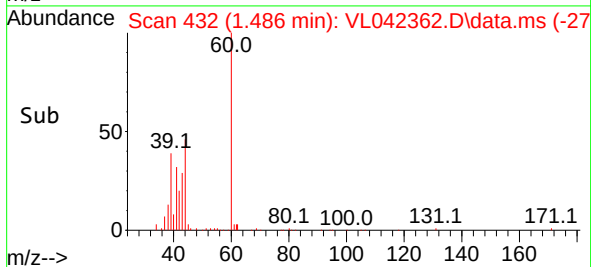
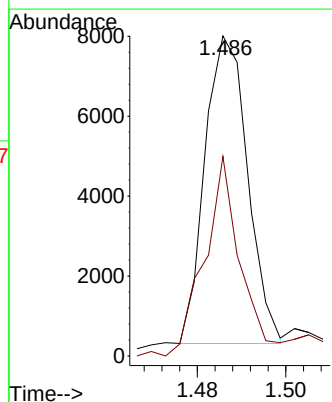
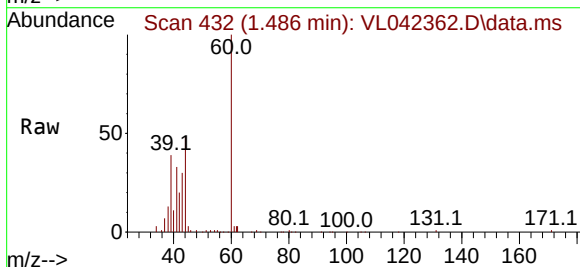
Instrument :
MSVOA_1
ClientSampleId :
IA-B1-4-3252025DUP

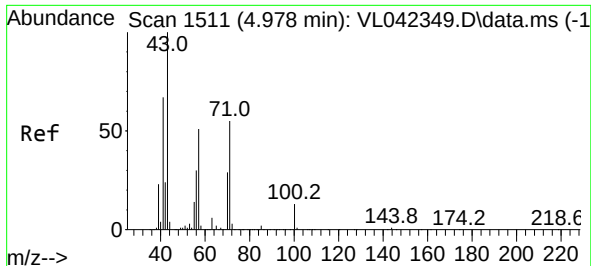
Tgt Ion: 64 Resp: 144
Ion Ratio Lower Upper
64 100
66 0.0 24.6 37.0#



#9
Propene
Concen: 0.550 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.003 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion: 41 Resp: 5149
Ion Ratio Lower Upper
41 100
42 63.7 56.2 84.4

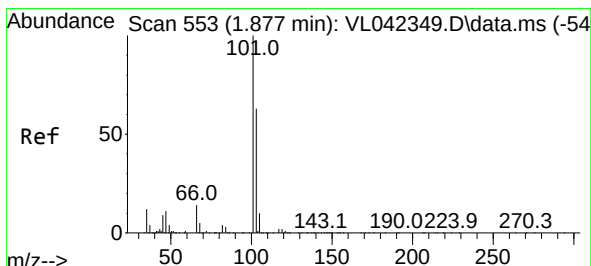
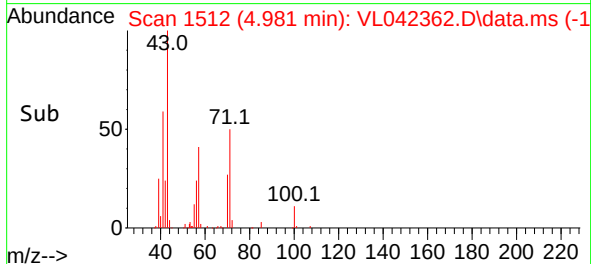
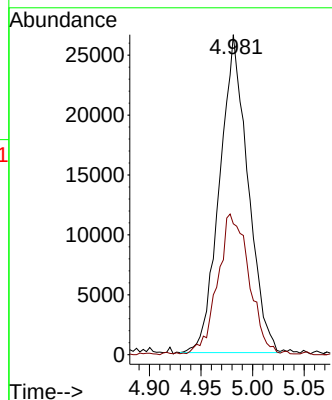
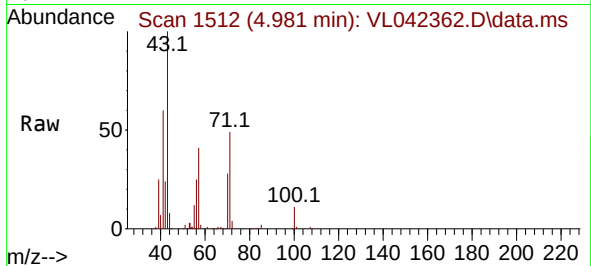




#10
Heptane
Concen: 1.924 ppbv
RT: 4.981 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

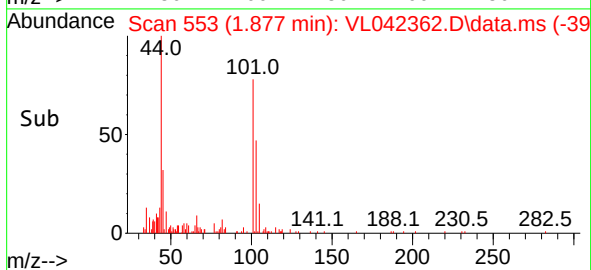
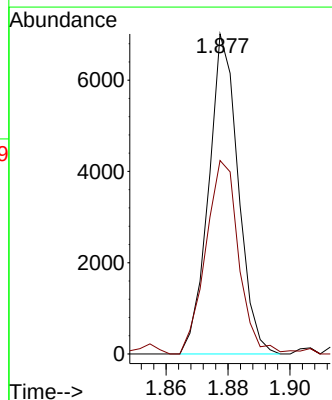
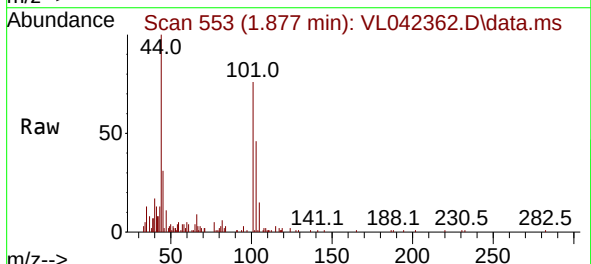
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DUP

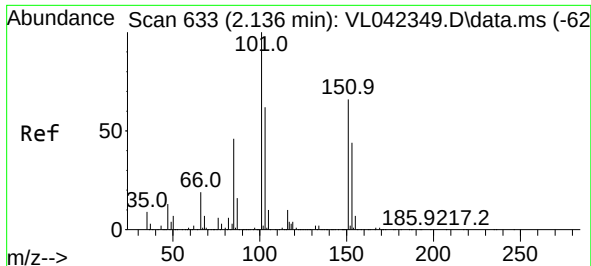
Tgt Ion: 43 Resp: 50613
Ion Ratio Lower Upper
43 100
57 50.3 39.9 59.9



#11
Trichlorofluoromethane
Concen: 0.227 ppbv
RT: 1.877 min Scan# 553
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion:101 Resp: 4655
Ion Ratio Lower Upper
101 100
103 60.4 50.1 75.1

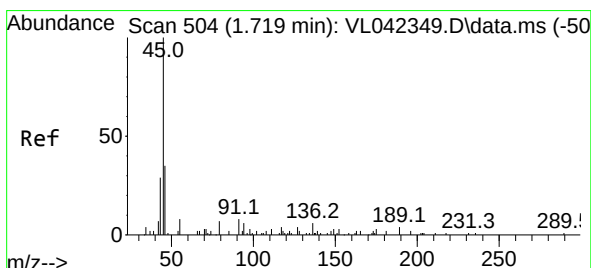
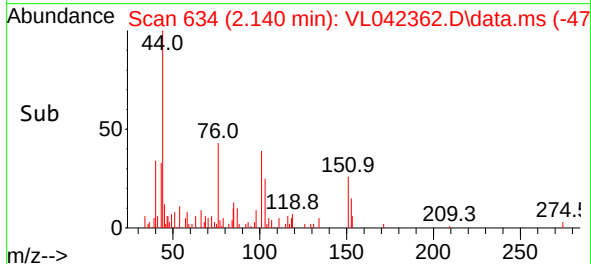
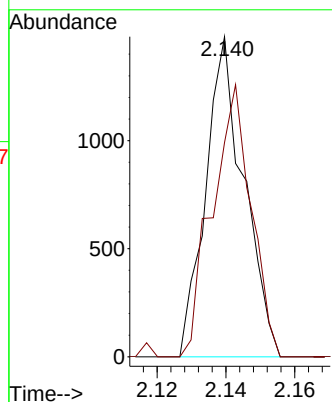
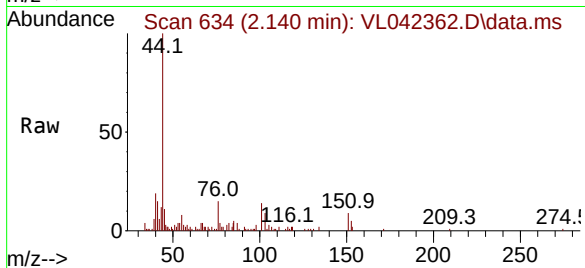




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.068 ppbv
RT: 2.140 min Scan# 611
Delta R.T. 0.003 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

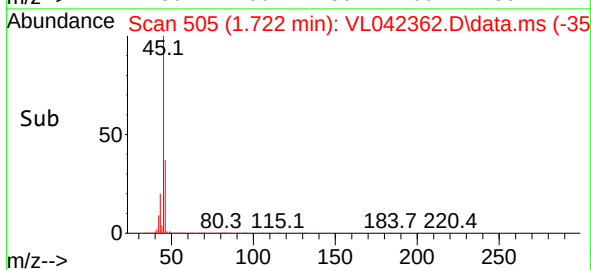
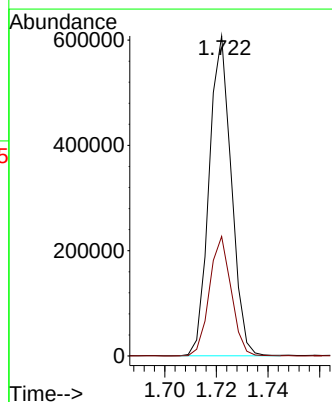
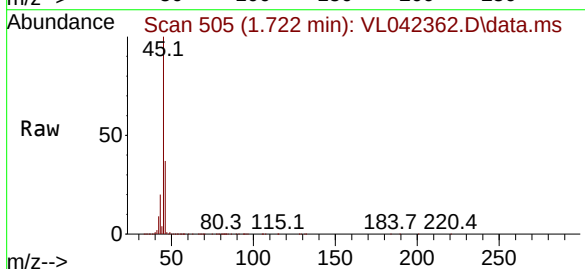
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DUP

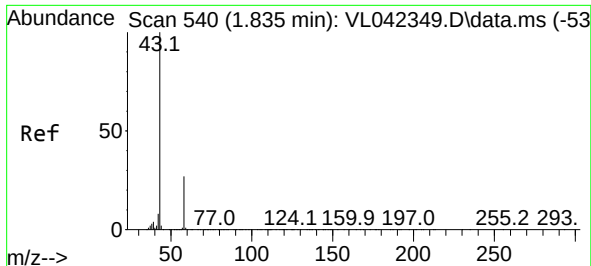
Tgt Ion:101 Resp: 1142
Ion Ratio Lower Upper
101 100
151 87.8 57.0 85.6#



#13
Ethanol
Concen: 243.762 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion: 45 Resp: 362837
Ion Ratio Lower Upper
45 100
46 36.8 21.9 87.7

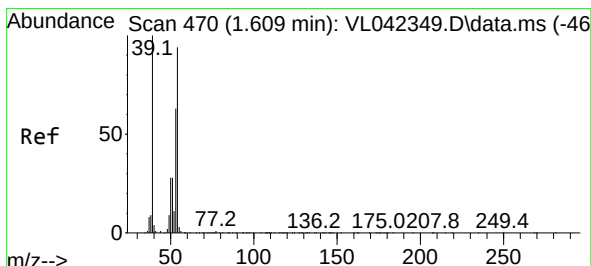
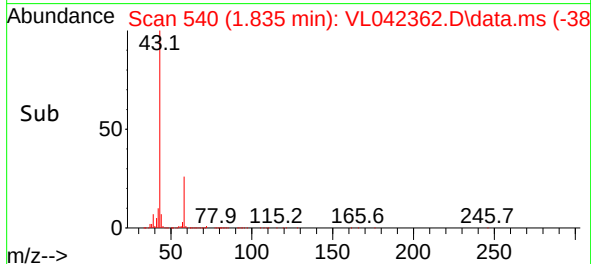
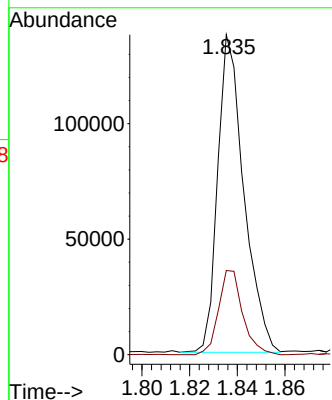
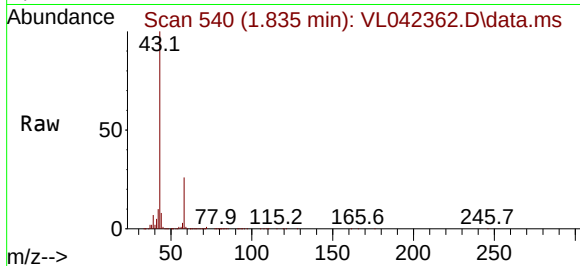




#15
Acetone
Concen: 5.238 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

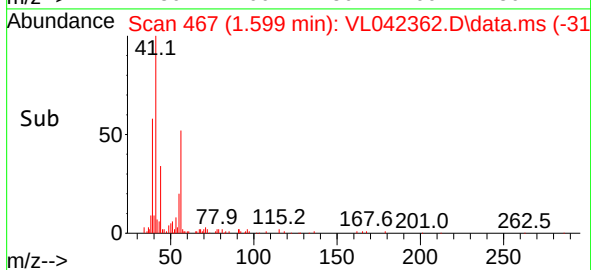
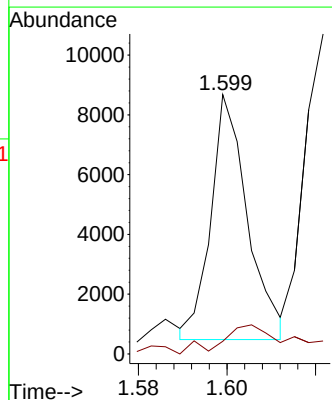
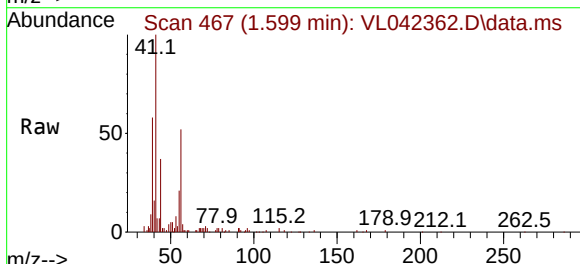
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DUP

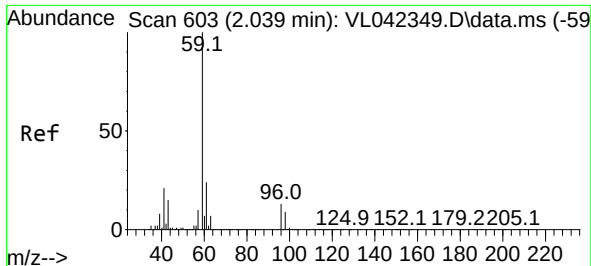
Tgt Ion: 43 Resp: 104810
Ion Ratio Lower Upper
43 100
58 24.9 22.4 33.6



#16
1,3-Butadiene
Concen: 0.491 ppbv
RT: 1.599 min Scan# 467
Delta R.T. -0.010 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion: 39 Resp: 4703
Ion Ratio Lower Upper
39 100
54 24.6 64.9 97.3#





#17

tert-Butyl alcohol

Concen: 0.151 ppbv

RT: 2.046 min Scan# 603

Delta R.T. 0.006 min

Lab File: VL042362.D

Acq: 17 Apr 2025 17:51

Instrument :

MSVOA_L

ClientSampleId :

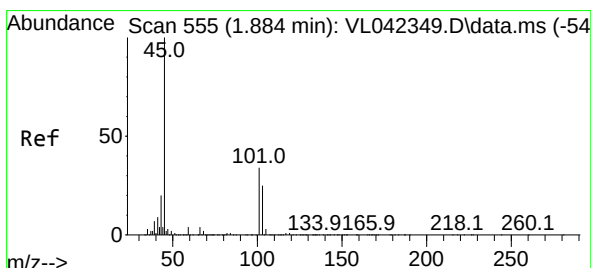
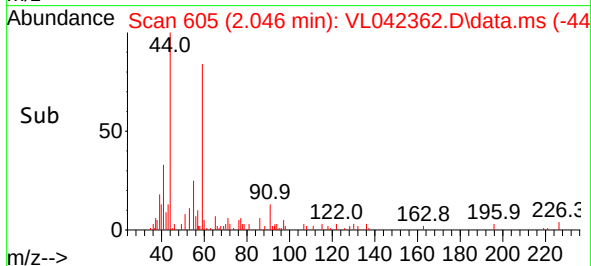
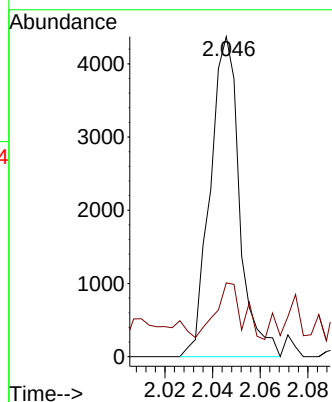
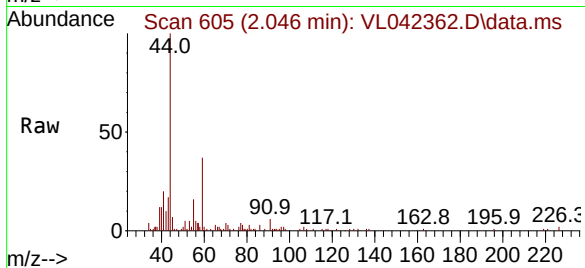
IA-B1-4-3252025DUP

Tgt Ion: 59 Resp: 3734

Ion Ratio Lower Upper

59 100

57 0.0 8.7 13.1#



#19

Isopropyl Alcohol

Concen: 2.265 ppbv

RT: 1.887 min Scan# 556

Delta R.T. 0.003 min

Lab File: VL042362.D

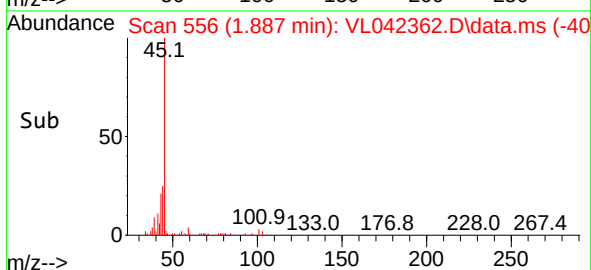
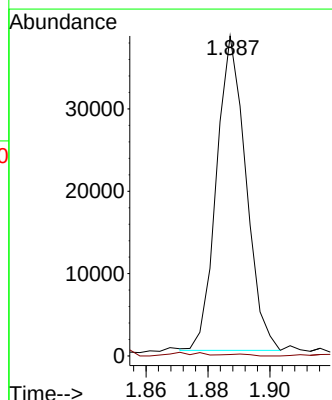
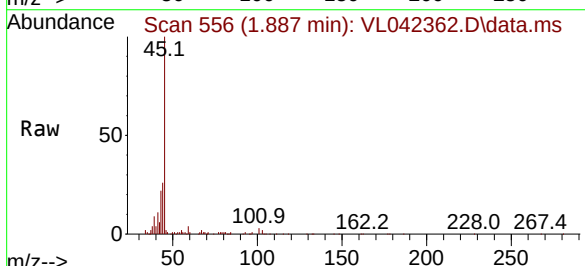
Acq: 17 Apr 2025 17:51

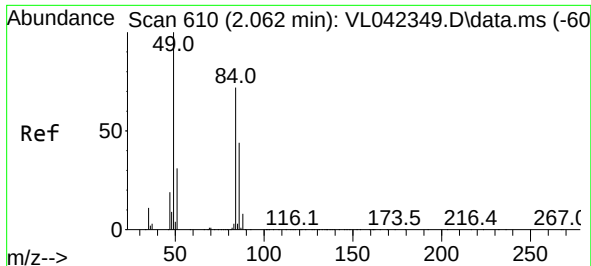
Tgt Ion: 45 Resp: 25172

Ion Ratio Lower Upper

45 100

58 103.6 34.5 51.7#

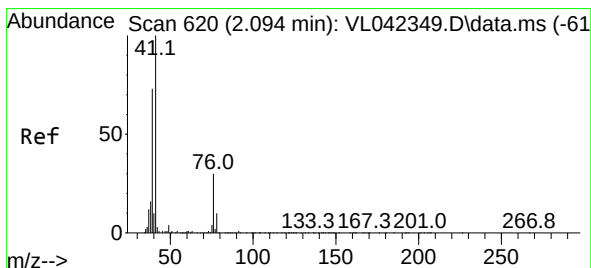
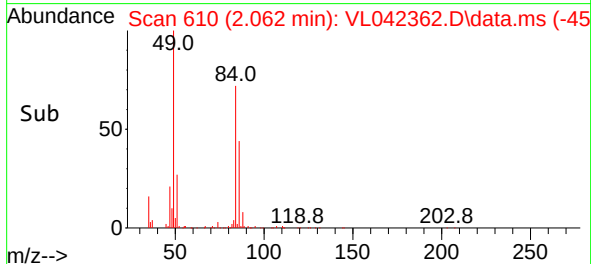
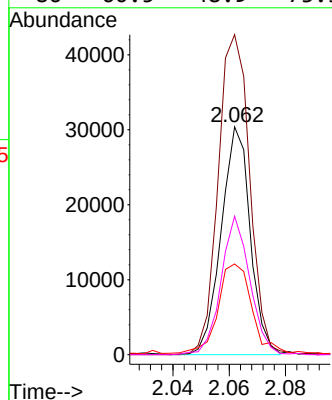
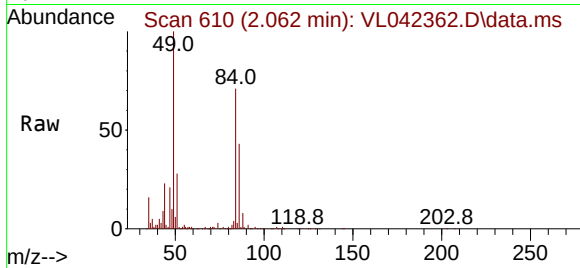




#20
Methylene Chloride
Concen: 2.781 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

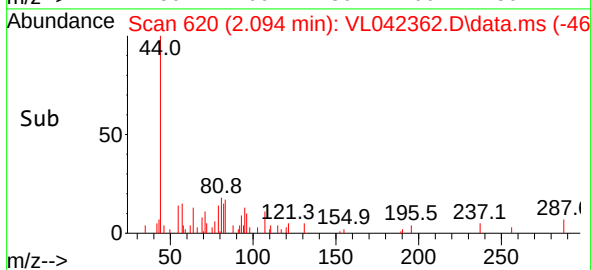
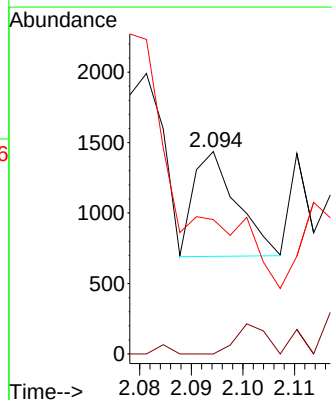
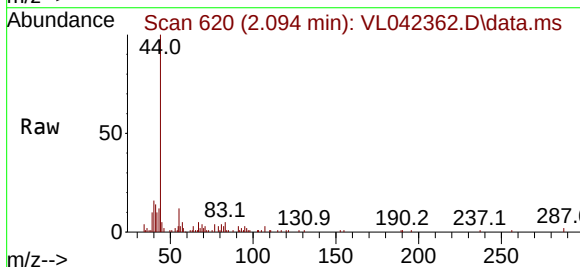
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DUP

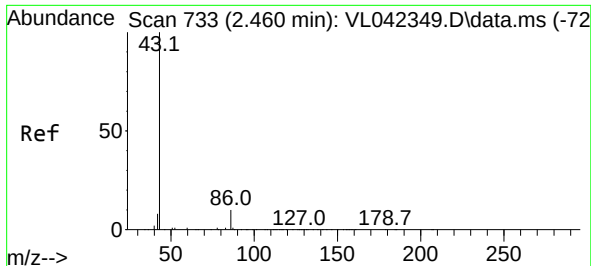
Tgt Ion: 84	Resp: 21791		
Ion	Ratio	Lower	Upper
84	100		
49	140.1	111.6	167.4
51	39.0	35.1	52.7
86	60.5	48.9	73.3



#21
Allyl Chloride
Concen: 0.031 ppbv
RT: 2.094 min Scan# 620
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion: 41	Resp: 433		
Ion Ratio	Lower	Upper	
41 100			
76 0.0	24.8	37.2#	
39 0.0	60.6	90.8#	

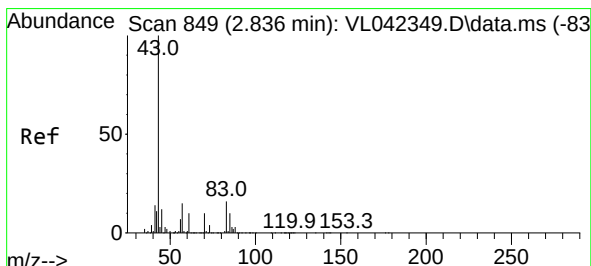
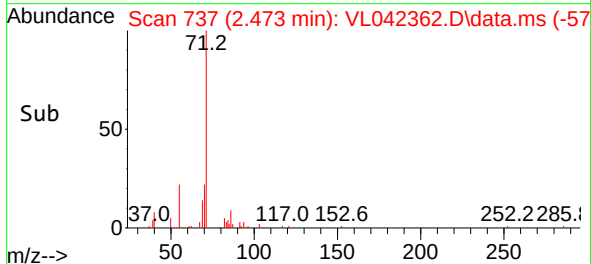
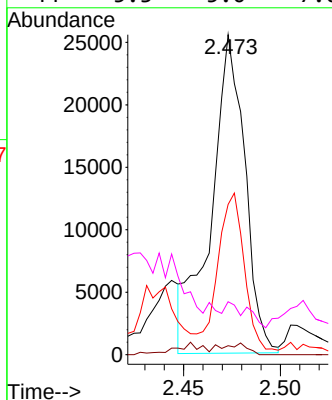
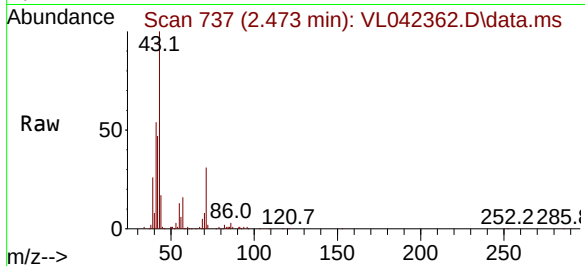




#23
Vinyl Acetate
Concen: 3.831 ppbv
RT: 2.473 min Scan# 71
Delta R.T. 0.013 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

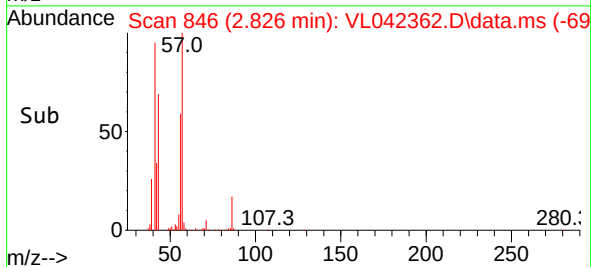
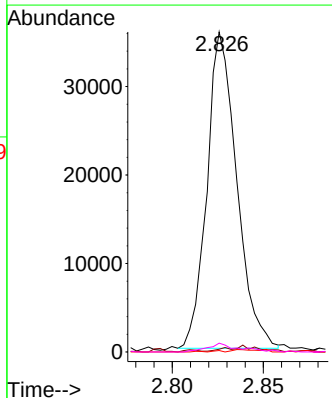
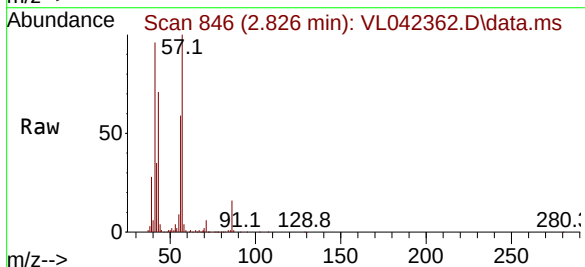
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DUP

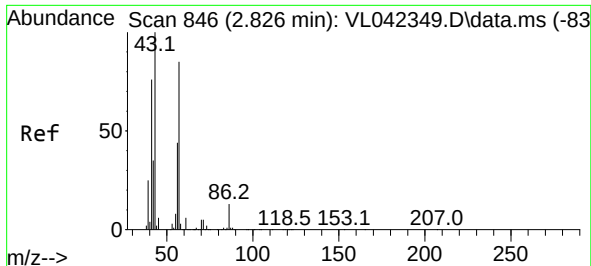
Tgt Ion: 43	Resp: 31029
Ion Ratio	Lower Upper
43 100	
86 2.9	6.5 9.7#
42 46.6	7.8 11.8#
44 5.3	5.0 7.6



#25
Ethyl Acetate
Concen: 0.824 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.010 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion: 43	Resp: 40663
Ion Ratio	Lower Upper
43 100	
45 2.8	8.3 12.5#
61 1.1	7.3 10.9#
70 3.0	7.0 10.6#

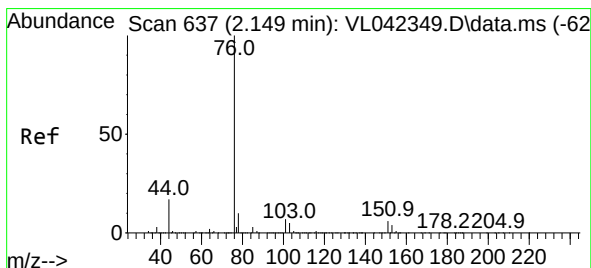
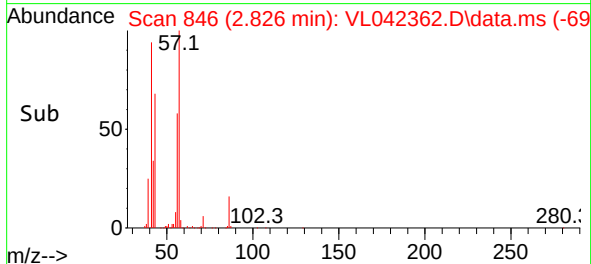
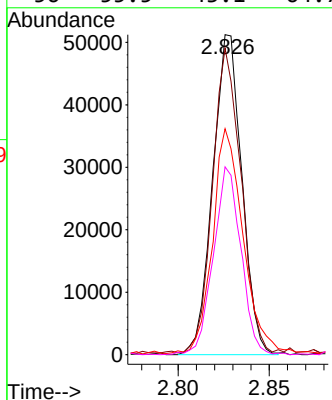
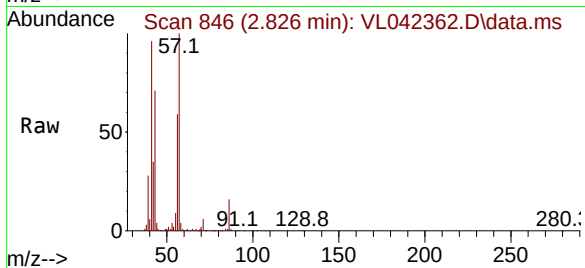




#26
Hexane
Concen: 2.850 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

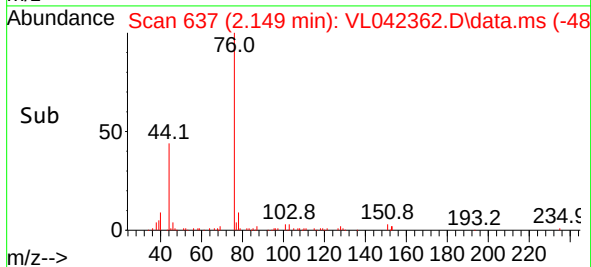
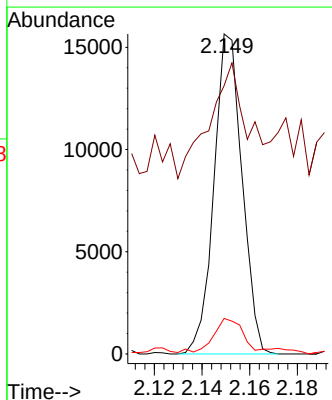
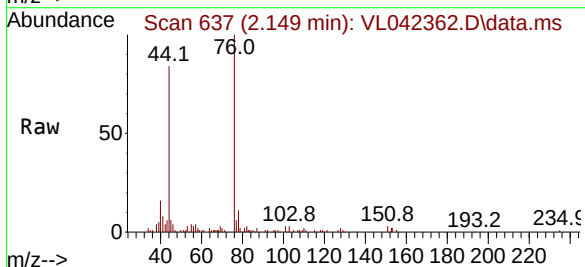
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DUP

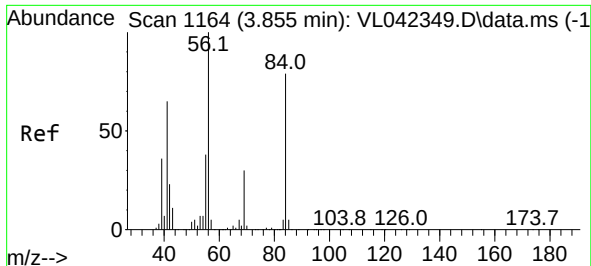
Tgt Ion:	57	Resp:	56908
Ion	Ratio	Lower	Upper
57	100		
41	95.3	77.9	116.9
43	75.0	208.4	312.6#
56	55.5	43.1	64.7



#27
Carbon Disulfide
Concen: 0.600 ppbv
RT: 2.149 min Scan# 637
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion:	76	Resp:	12830
Ion	Ratio	Lower	Upper
76	100		
44	218.5	15.5	23.3#
78	15.2	9.3	13.9#



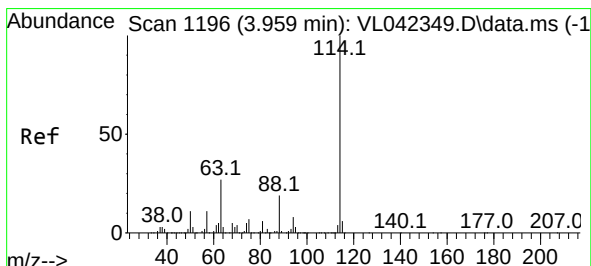
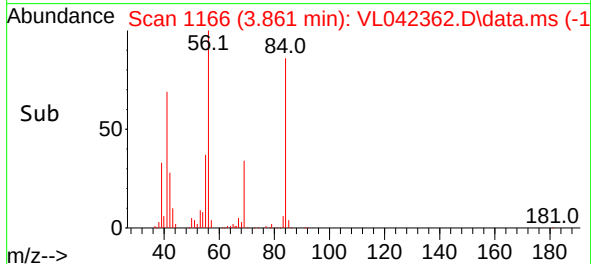
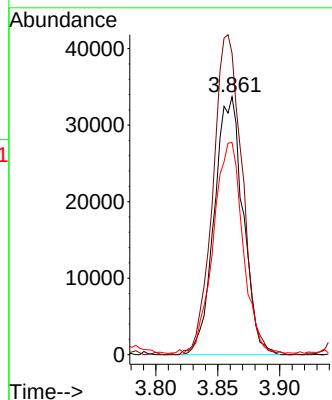
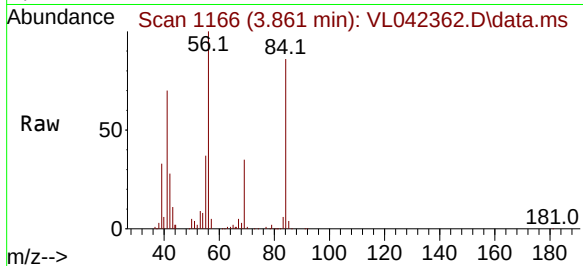


#30
Cyclohexane
Concen: 3.382 ppbv
RT: 3.861 min Scan# 1166
Delta R.T. 0.006 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DUP

Tgt Ion: 84 Resp: 54578

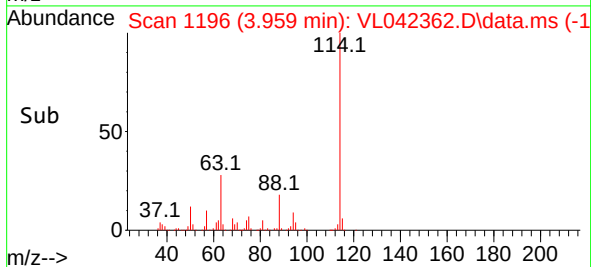
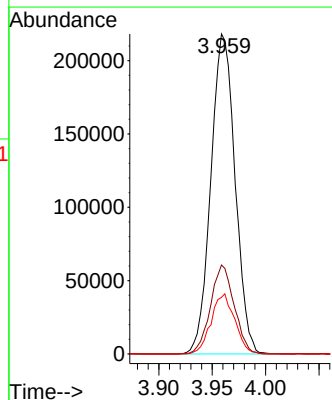
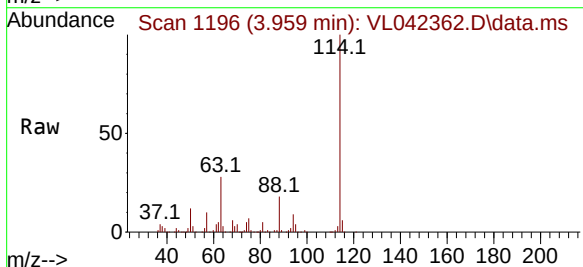
Ion	Ratio	Lower	Upper
84	100		
56	125.7	101.0	151.4
41	83.8	67.4	101.0

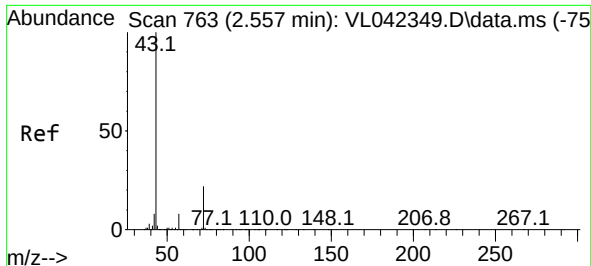


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion: 114 Resp: 344143

Ion	Ratio	Lower	Upper
114	100		
63	27.2	21.8	32.6
88	18.4	15.5	23.3

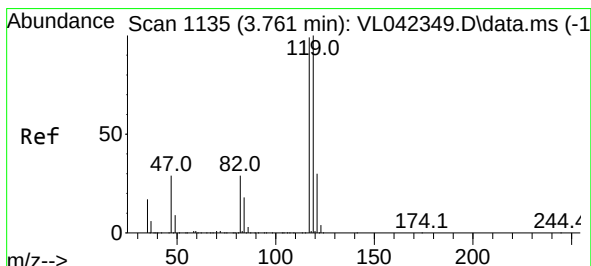
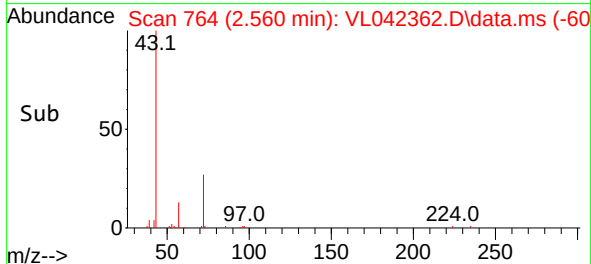
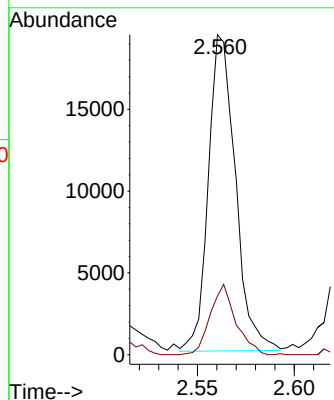
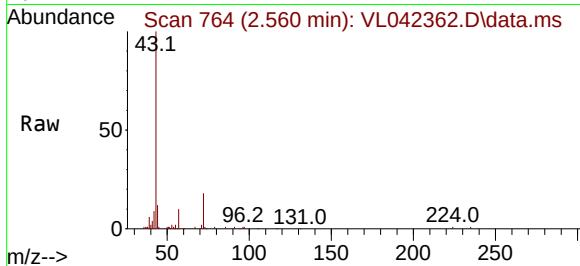




#34
2-Butanone
Concen: 0.693 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

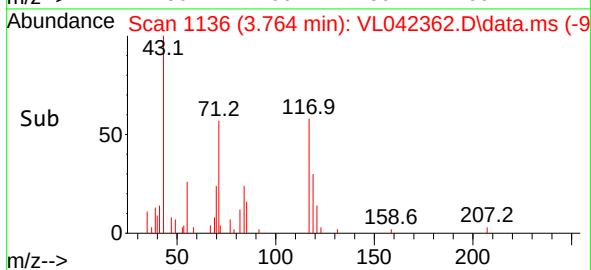
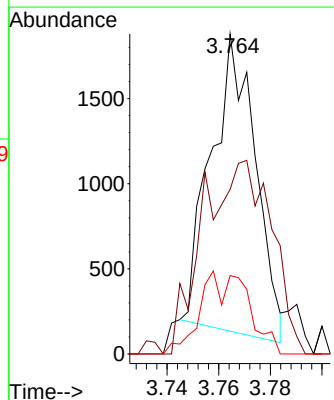
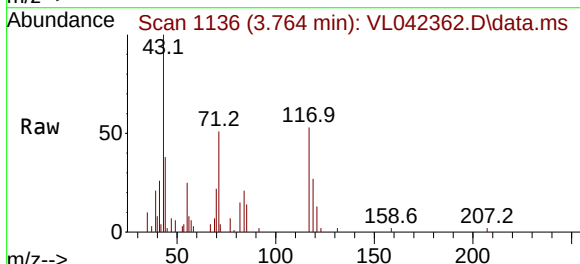
Instrument :
MSVOA_1
ClientSampleId :
IA-B1-4-3252025DUP

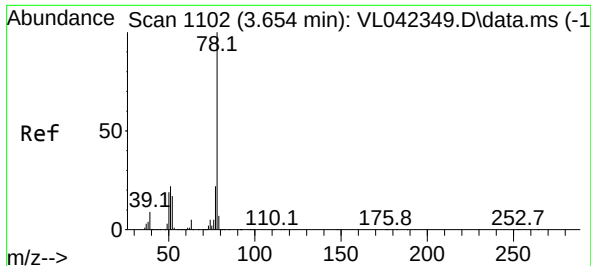
Tgt Ion: 43 Resp: 18869
Ion Ratio Lower Upper
43 100
72 21.0 18.2 27.2



#35
Carbon Tetrachloride
Concen: 0.067 ppbv
RT: 3.764 min Scan# 1136
Delta R.T. 0.003 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion: 117 Resp: 2082
Ion Ratio Lower Upper
117 100
119 33.0 80.5 120.7#
121 27.5 24.2 36.2

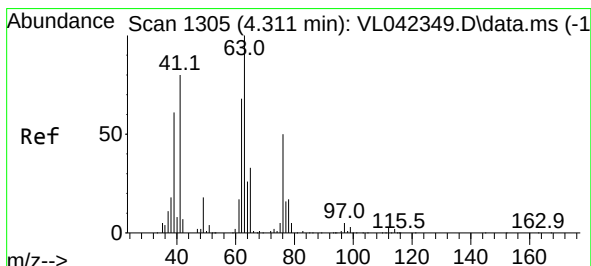
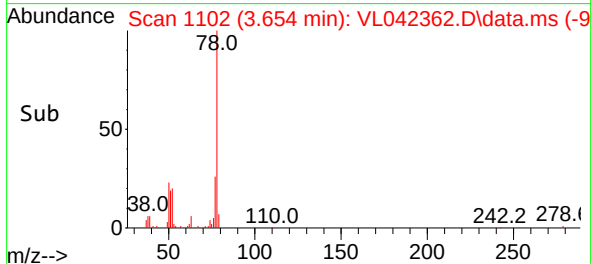
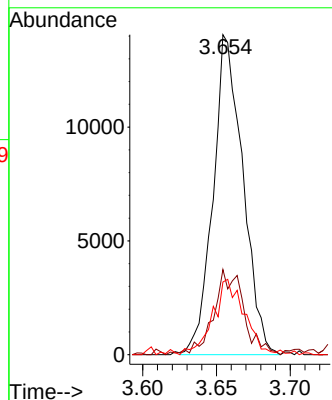
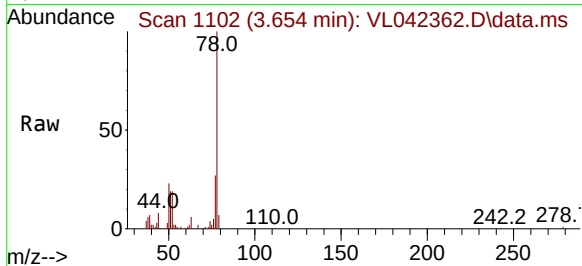




#36
Benzene
Concen: 0.532 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

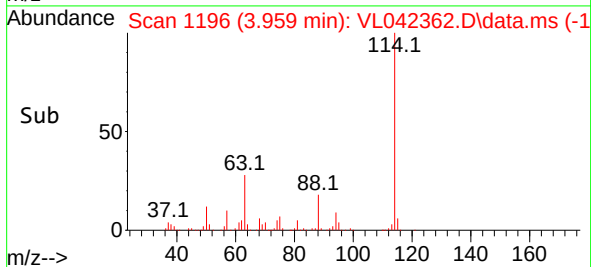
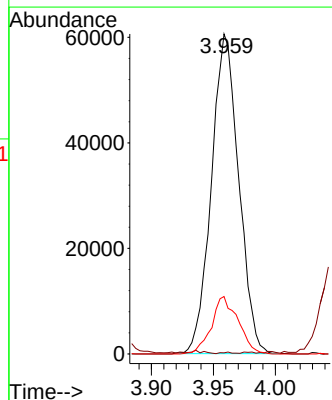
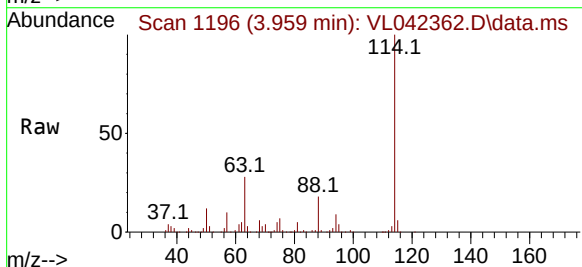
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DUP

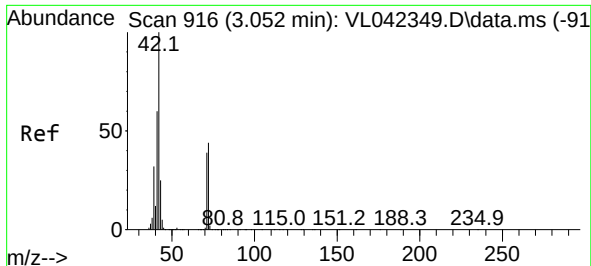
Tgt Ion: 78 Resp: 19730
Ion Ratio Lower Upper
78 100
77 26.6 17.4 26.0#
50 22.7 15.5 23.3



#39
1,2-Dichloropropane
Concen: 6.732 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. -0.353 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion: 63 Resp: 93126
Ion Ratio Lower Upper
63 100
41 0.1 64.2 96.2#
62 18.0 54.3 81.5#

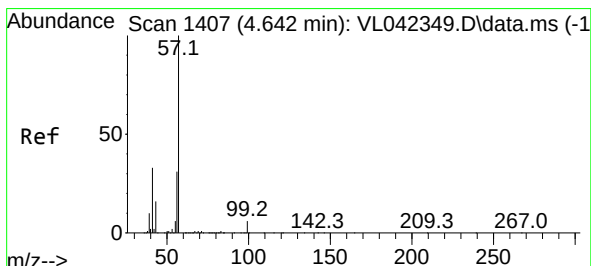
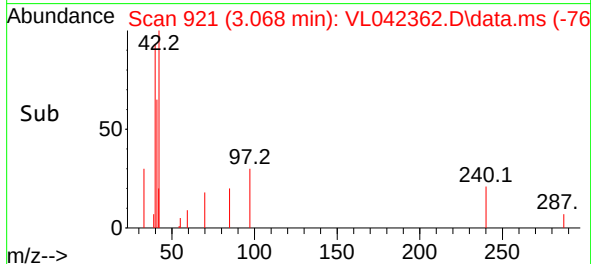
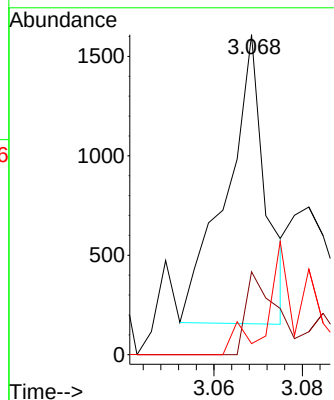
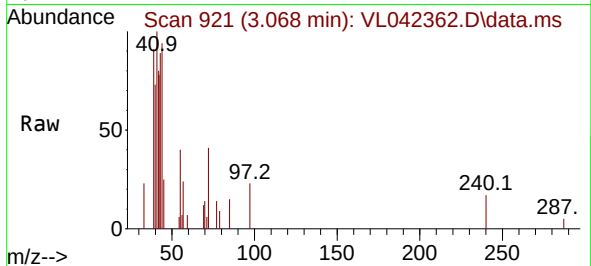




#41
Tetrahydrofuran
Concen: 0.056 ppbv
RT: 3.068 min Scan# 916
Delta R.T. 0.016 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

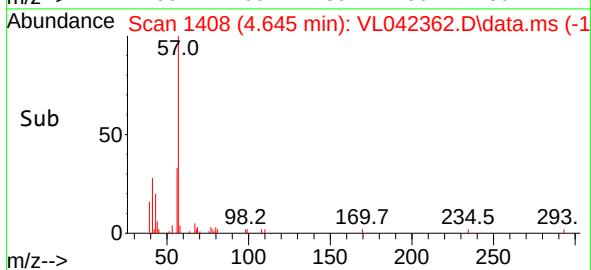
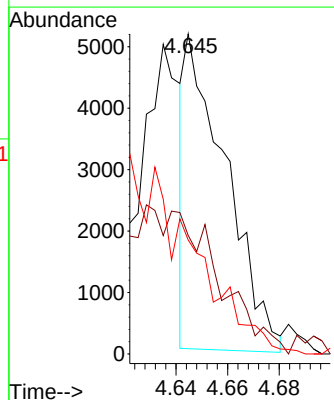
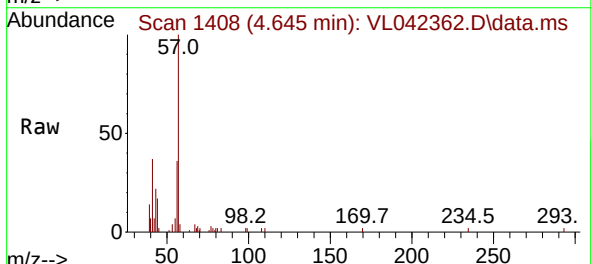
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DUP

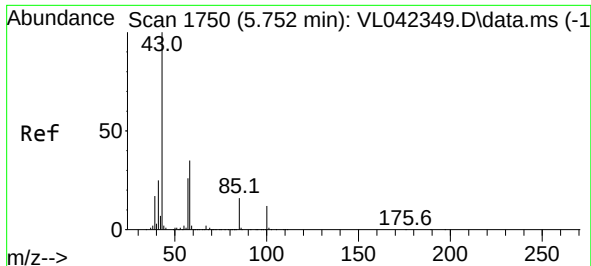
Tgt Ion: 42 Resp: 892
Ion Ratio Lower Upper
42 100
72 31.4 32.3 48.5#
71 0.0 31.4 47.2#



#44
2,2,4-Trimethylpentane
Concen: 0.088 ppbv
RT: 4.645 min Scan# 1408
Delta R.T. 0.003 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion: 57 Resp: 5625
Ion Ratio Lower Upper
57 100
41 0.0 27.2 40.8#
56 0.0 25.7 38.5#

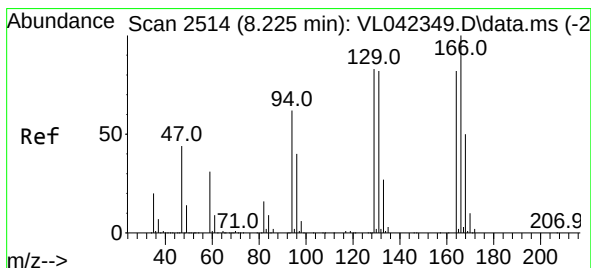
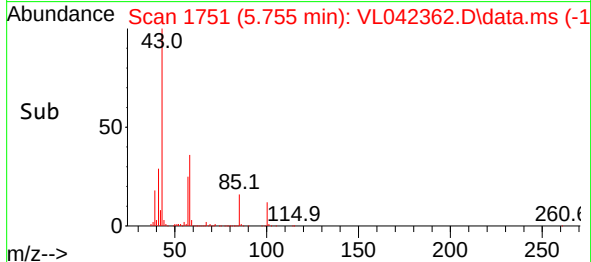
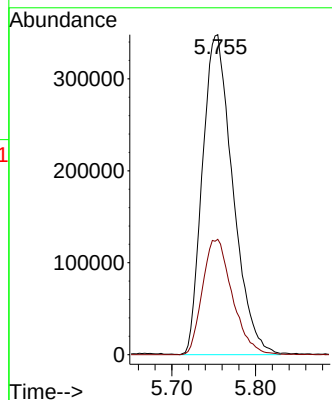
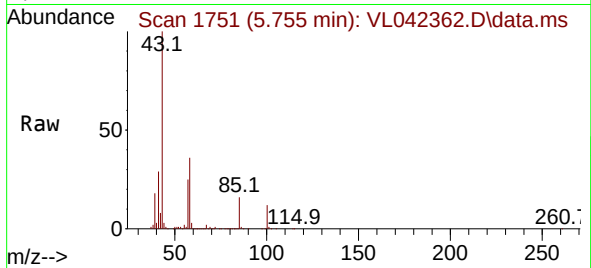




#50
4-Methyl-2-Pentanone
Concen: 19.389 ppbv
RT: 5.755 min Scan# 1751
Delta R.T. 0.003 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

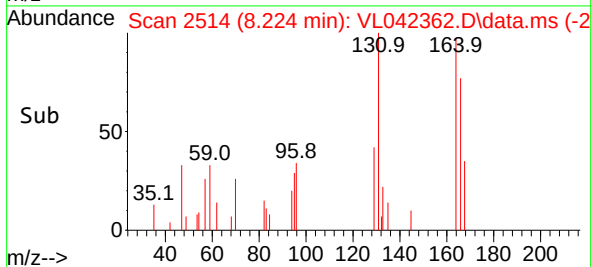
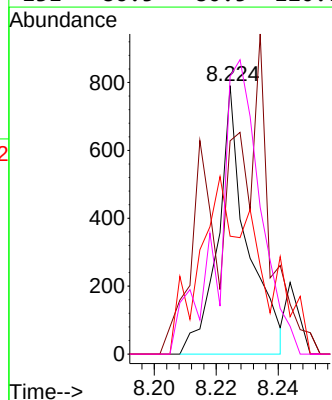
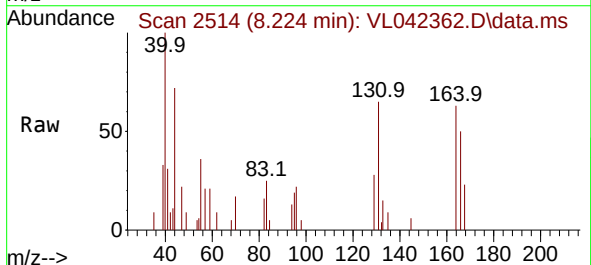
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DUP

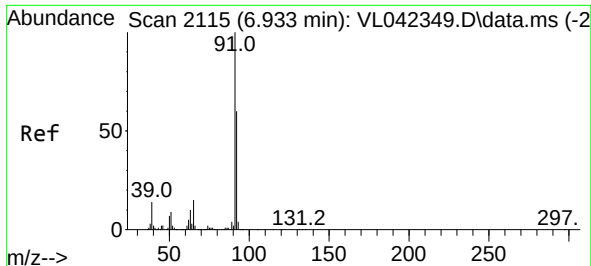
Tgt Ion: 43 Resp: 876965
Ion Ratio Lower Upper
43 100
58 35.4 28.6 43.0



#52
Tetrachloroethene
Concen: 0.036 ppbv
RT: 8.224 min Scan# 2514
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion: 164 Resp: 512
Ion Ratio Lower Upper
164 100
166 59.3 98.2 147.2#
129 14.9 81.8 122.8#
131 86.5 80.5 120.7

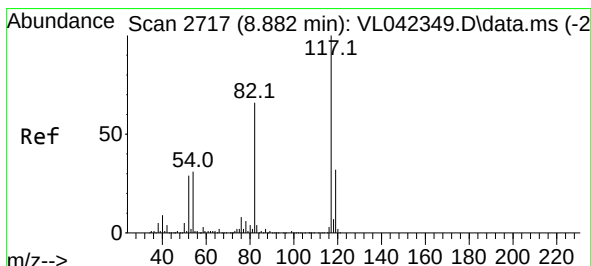
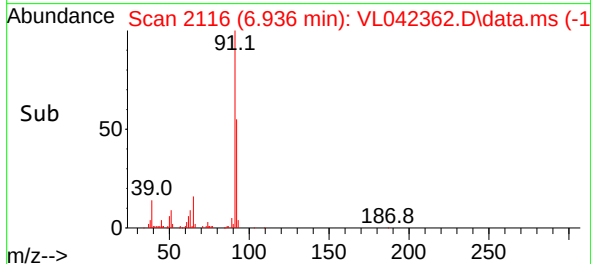
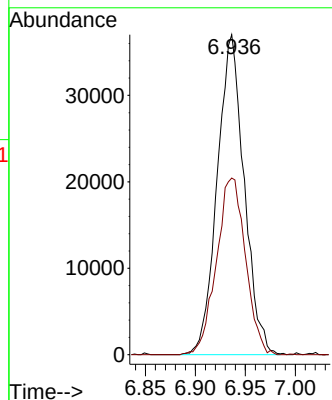
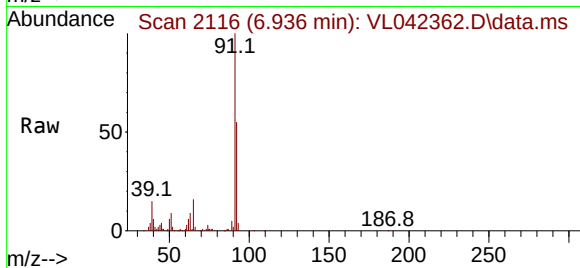




#53
Toluene
Concen: 1.557 ppbv
RT: 6.936 min Scan# 2115
Delta R.T. 0.003 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

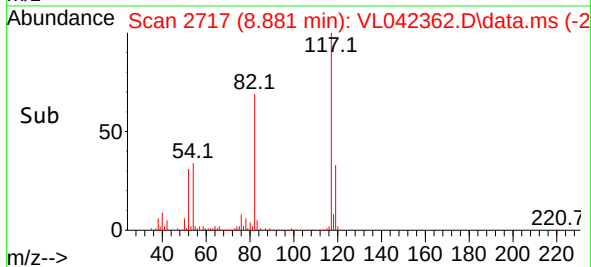
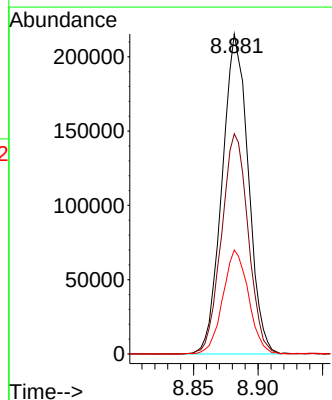
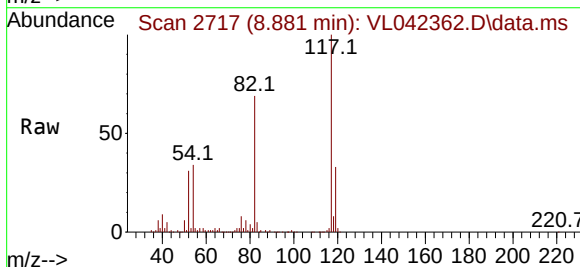
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DUP

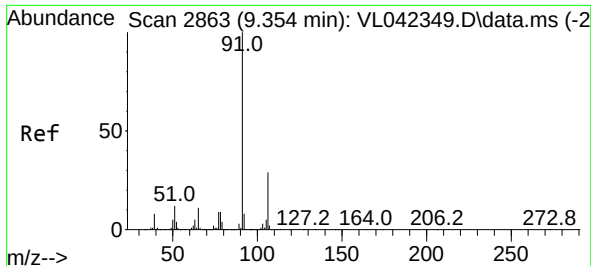
Tgt Ion: 91 Resp: 69352
Ion Ratio Lower Upper
91 100
92 59.6 48.2 72.4



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.881 min Scan# 2717
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion: 117 Resp: 303859
Ion Ratio Lower Upper
117 100
82 70.0 57.8 86.6
119 31.8 25.2 37.8

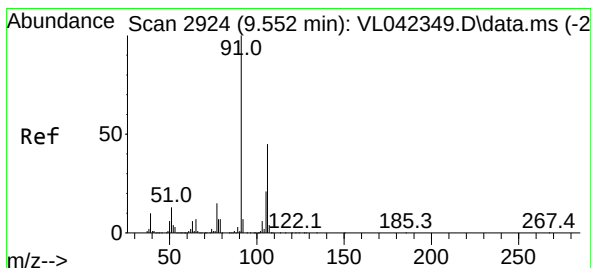
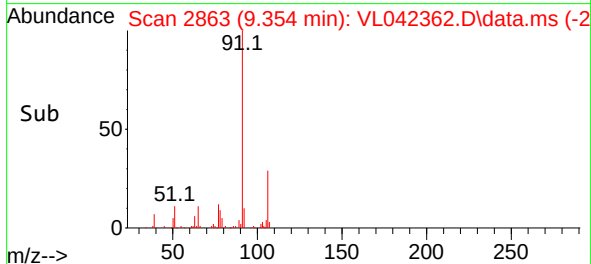
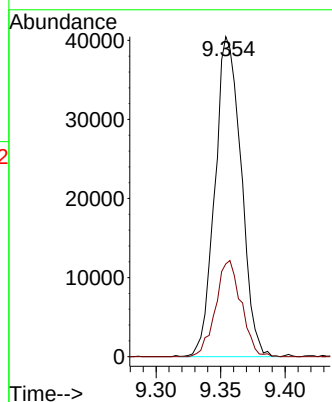
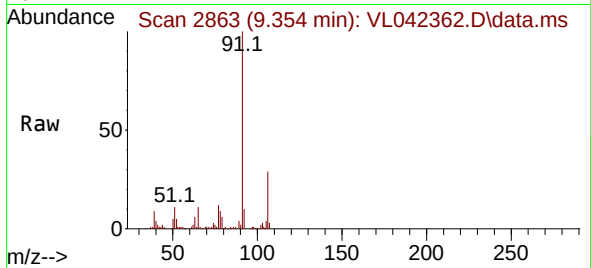




#58
Ethyl Benzene
Concen: 0.948 ppbv
RT: 9.354 min Scan# 218
Delta R.T. -0.000 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

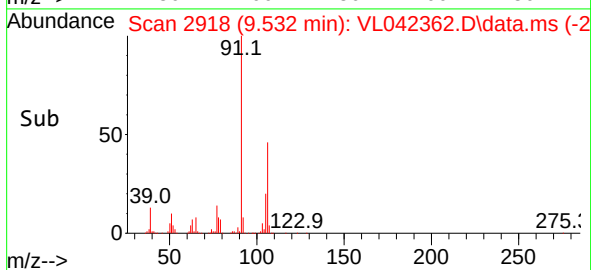
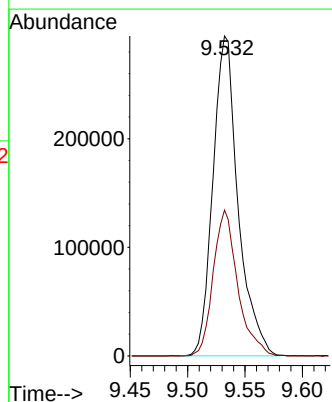
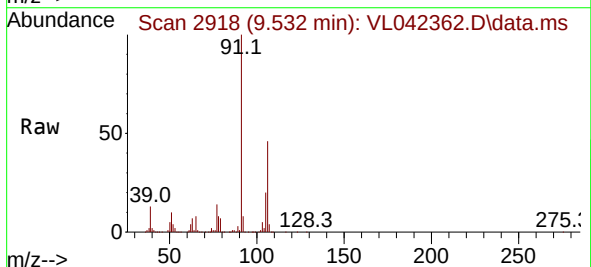
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DUP

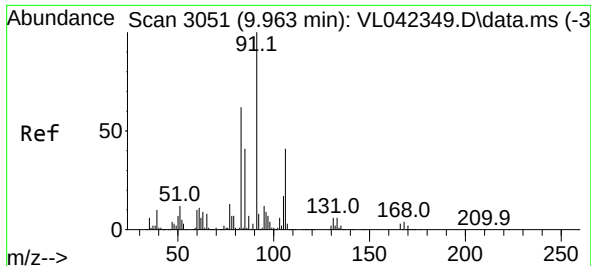
Tgt Ion: 91 Resp: 57094
Ion Ratio Lower Upper
91 100
106 29.0 23.0 34.4



#59
m/p-Xylene
Concen: 9.248 ppbv
RT: 9.532 min Scan# 2918
Delta R.T. -0.019 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion: 91 Resp: 448533
Ion Ratio Lower Upper
91 100
106 44.6 35.4 53.2

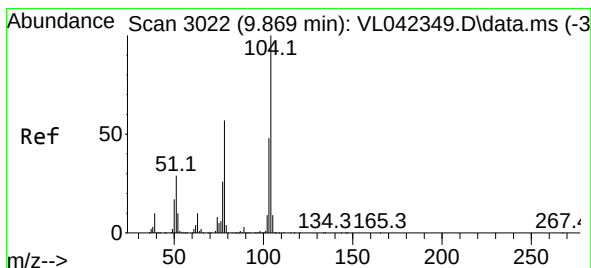
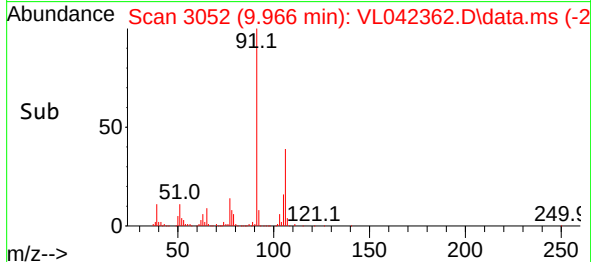
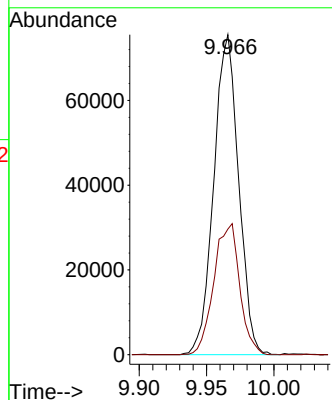
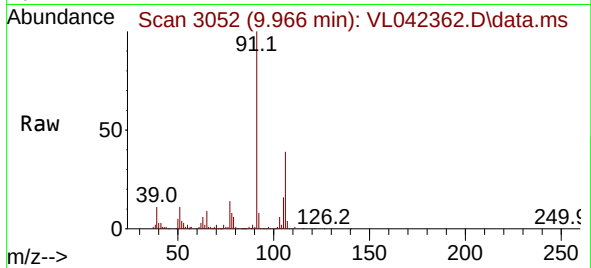




#60
o-Xylene
Concen: 1.983 ppbv
RT: 9.966 min Scan# 3051
Delta R.T. 0.003 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

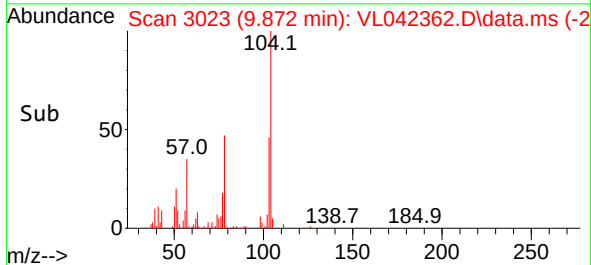
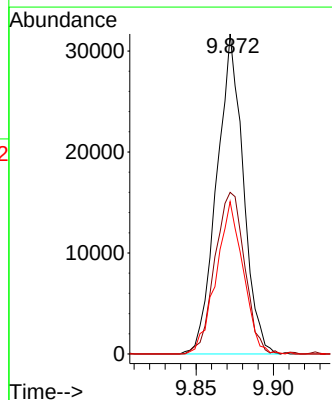
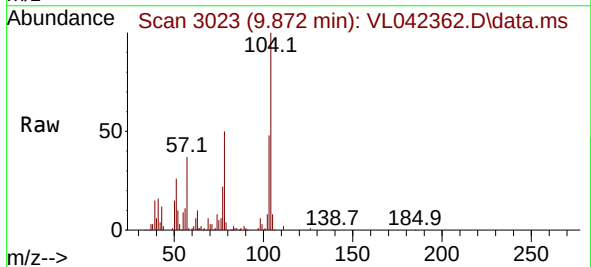
Instrument :
MSVOA_1
ClientSampleId :
IA-B1-4-3252025DUP

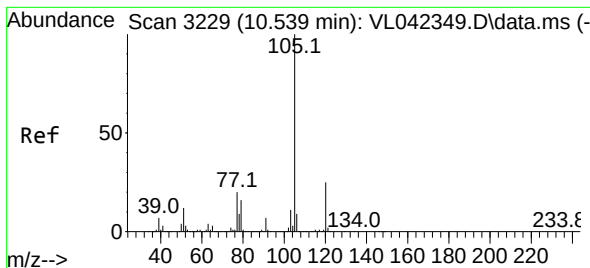
Tgt Ion: 91 Resp: 96845
Ion Ratio Lower Upper
91 100
106 42.5 21.1 63.4



#61
Styrene
Concen: 1.614 ppbv
RT: 9.872 min Scan# 3023
Delta R.T. 0.003 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion: 104 Resp: 37632
Ion Ratio Lower Upper
104 100
78 57.0 44.6 66.8
103 48.5 37.4 56.0





#62

Isopropylbenzene

Concen: 0.150 ppbv

RT: 10.539 min Scan# 31

Delta R.T. -0.000 min

Lab File: VL042362.D

Acq: 17 Apr 2025 17:51

Instrument :

MSVOA_L

ClientSampleId :

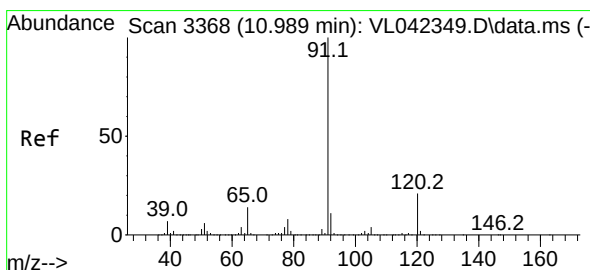
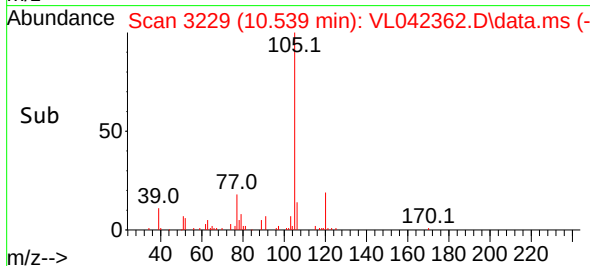
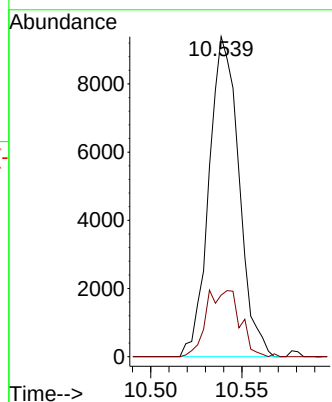
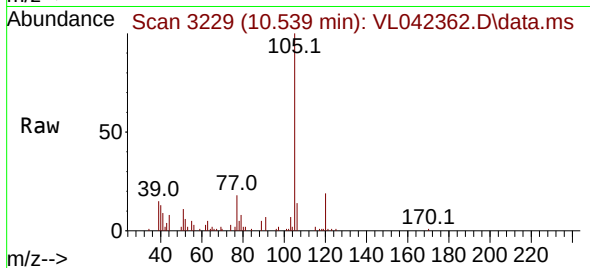
IA-B1-4-3252025DUP

Tgt Ion:105 Resp: 10762

Ion Ratio Lower Upper

105 100

120 23.5 19.8 29.8



#64

n-propylbenzene

Concen: 0.553 ppbv

RT: 10.989 min Scan# 3368

Delta R.T. -0.000 min

Lab File: VL042362.D

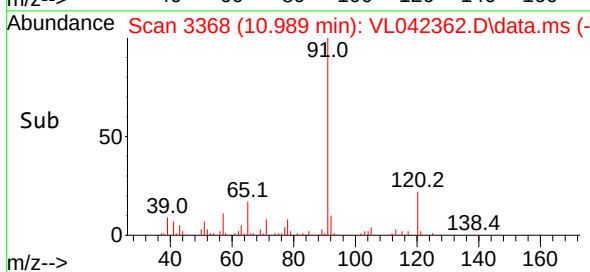
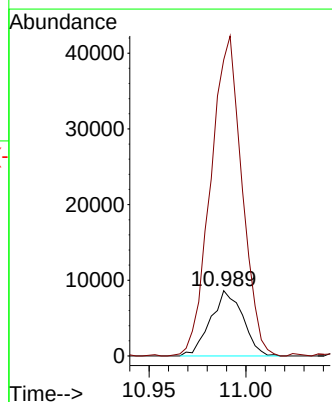
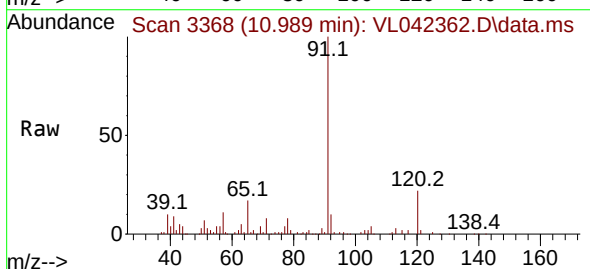
Acq: 17 Apr 2025 17:51

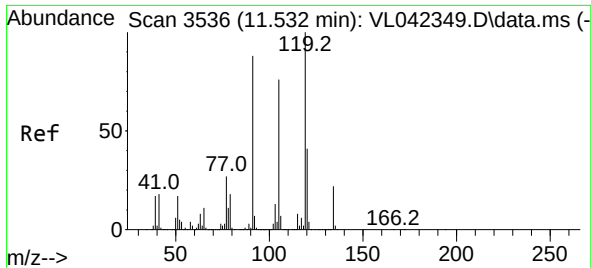
Tgt Ion:120 Resp: 9965

Ion Ratio Lower Upper

120 100

91 477.7 392.4 588.6

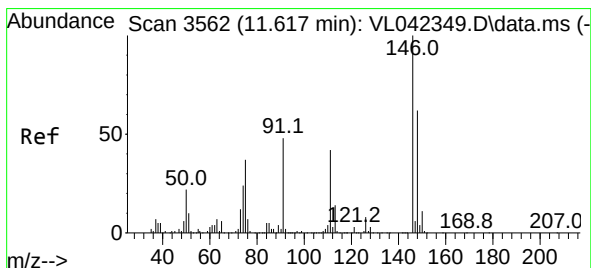
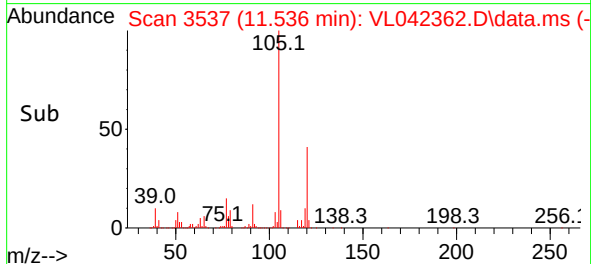
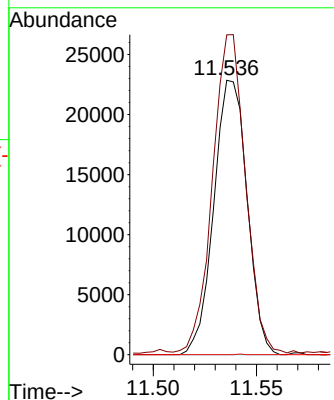
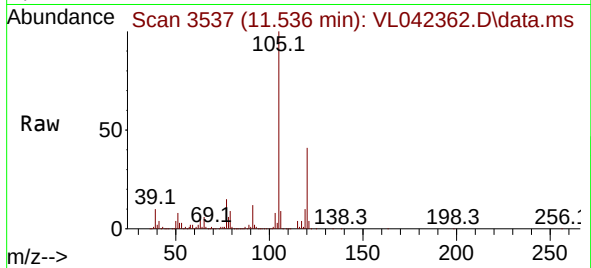




#65
tert-Butylbenzene
Concen: 0.389 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. 0.003 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

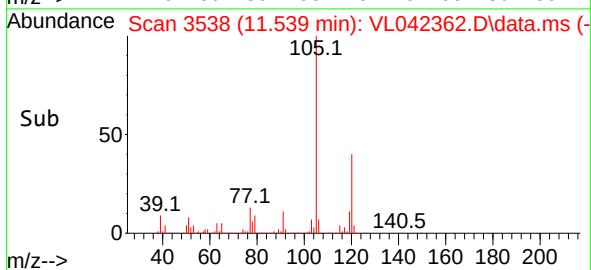
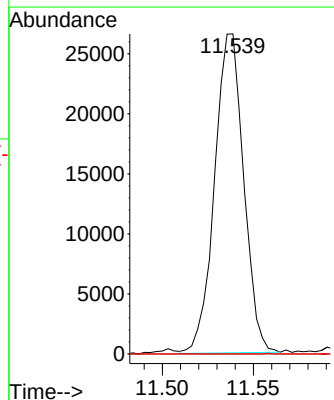
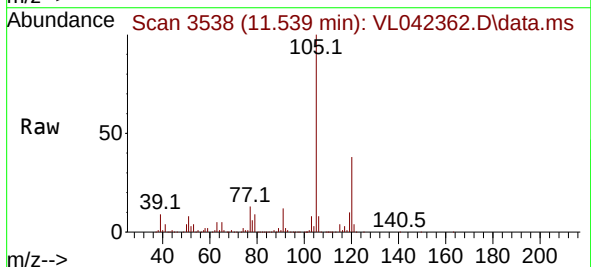
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DUP

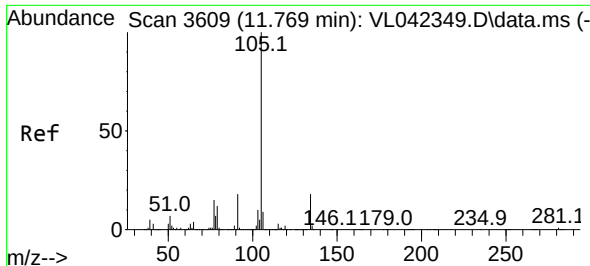
Tgt Ion:119 Resp: 25638
Ion Ratio Lower Upper
119 100
91 120.2 74.6 111.8#
134 0.0 18.8 28.2#



#66
Benzyl Chloride
Concen: 4.075 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. -0.078 min
Lab File: VL042362.D
Acq: 17 Apr 2025 17:51

Tgt Ion: 91 Resp: 29513
Ion Ratio Lower Upper
91 100
126 0.1 11.8 17.6#
128 0.0 4.5 6.7#

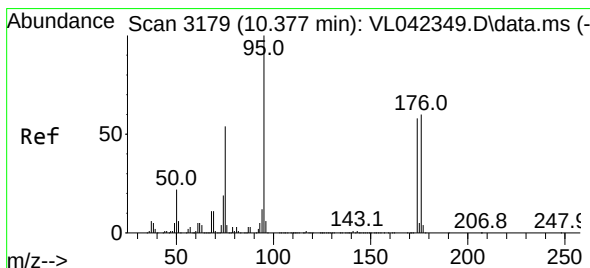
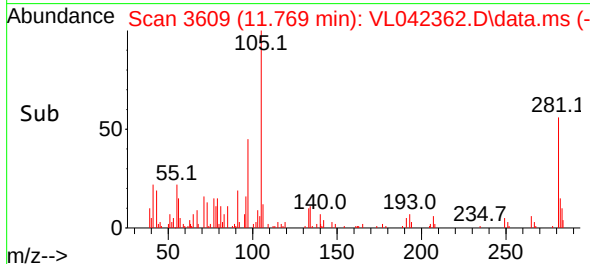
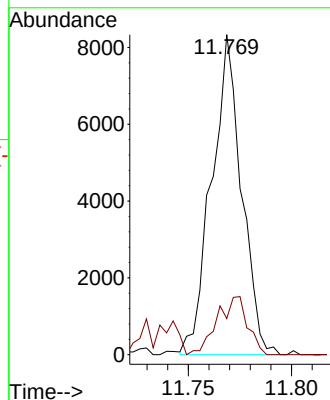
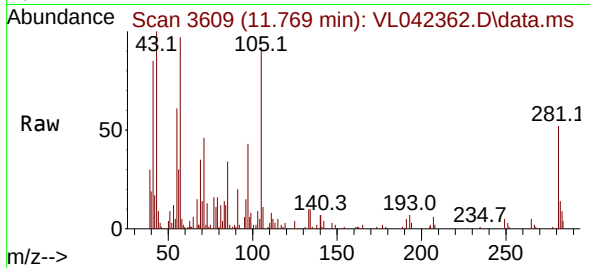




#67
 sec-Butylbenzene
 Concen: 0.092 ppbv
 RT: 11.769 min Scan# 3609
 Delta R.T. -0.000 min
 Lab File: VL042362.D
 Acq: 17 Apr 2025 17:51

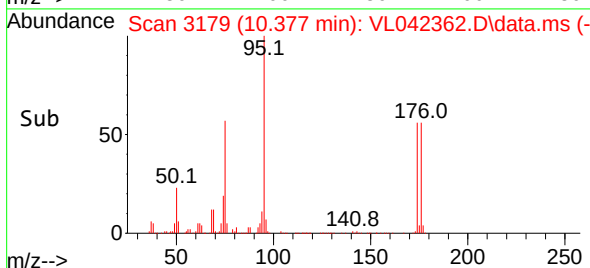
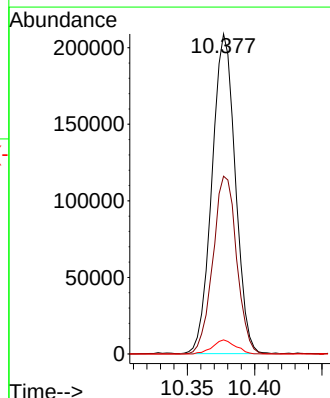
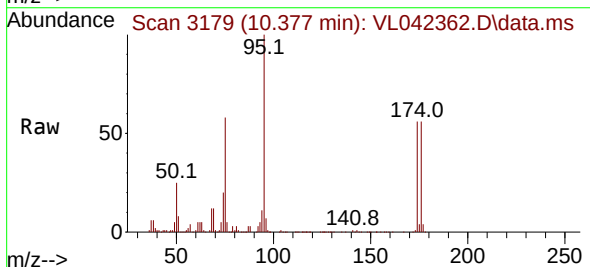
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B1-4-3252025DUP

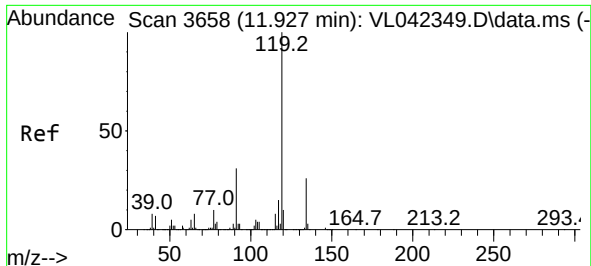
Tgt Ion:105 Resp: 8403
 Ion Ratio Lower Upper
 105 100
 134 29.0 14.6 21.8#



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.067 ppbv
 RT: 10.377 min Scan# 3179
 Delta R.T. -0.000 min
 Lab File: VL042362.D
 Acq: 17 Apr 2025 17:51

Tgt Ion: 95 Resp: 251359
 Ion Ratio Lower Upper
 95 100
 174 56.6 48.5 72.7
 175 4.3 3.7 5.5





#69

p-Isopropyltoluene

Concen: 0.160 ppbv

RT: 11.927 min Scan# 3658

Delta R.T. -0.000 min

Lab File: VL042362.D

Acq: 17 Apr 2025 17:51

Instrument :

MSVOA_L

ClientSampleId :

IA-B1-4-3252025DUP

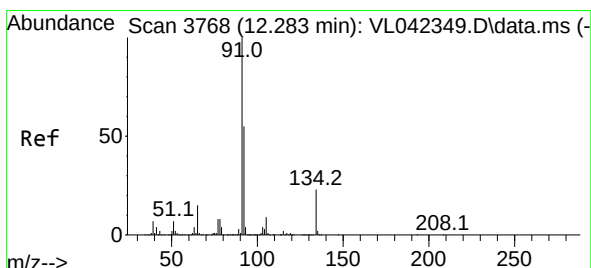
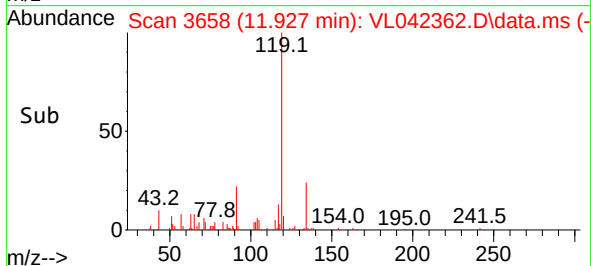
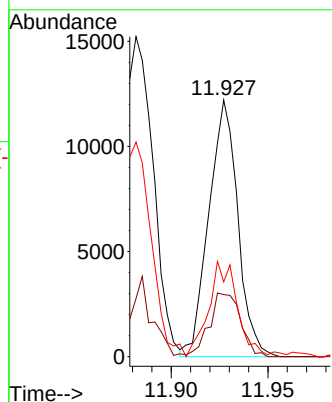
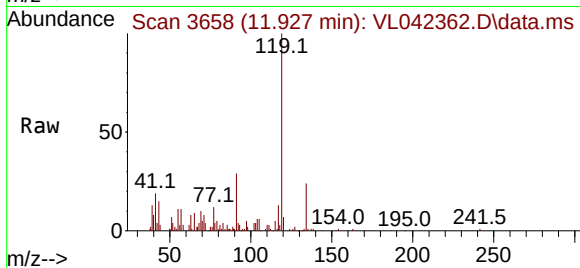
Tgt Ion:119 Resp: 12725

Ion Ratio Lower Upper

119 100

134 26.7 20.0 30.0

91 35.9 24.4 36.6



#70

n-Butylbenzene

Concen: 0.353 ppbv

RT: 12.283 min Scan# 3768

Delta R.T. -0.000 min

Lab File: VL042362.D

Acq: 17 Apr 2025 17:51

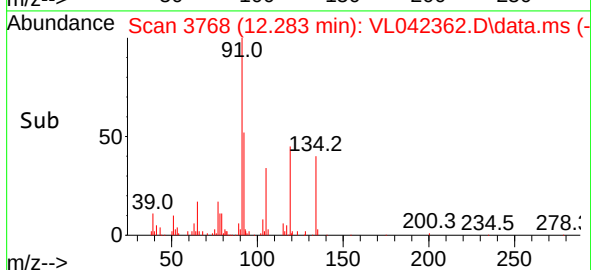
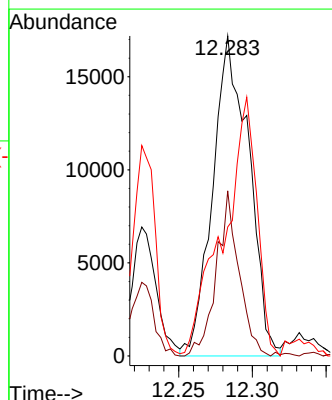
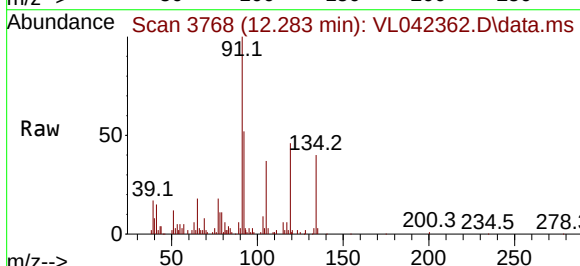
Tgt Ion: 91 Resp: 29311

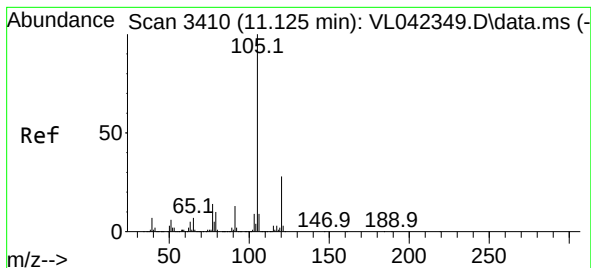
Ion Ratio Lower Upper

91 100

92 32.6 44.2 66.4#

134 78.8 18.2 27.4#





#72

4-Ethyltoluene

Concen: 1.088 ppbv

RT: 11.124 min Scan# 3410

Delta R.T. -0.000 min

Lab File: VL042362.D

Acq: 17 Apr 2025 17:51

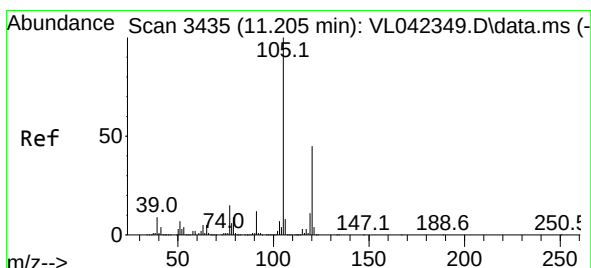
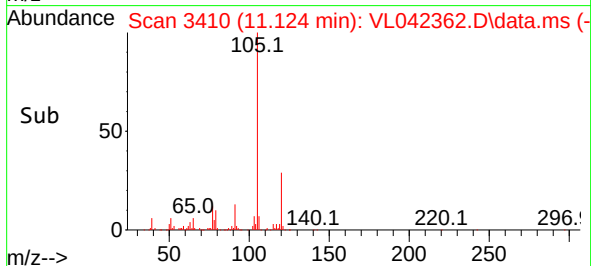
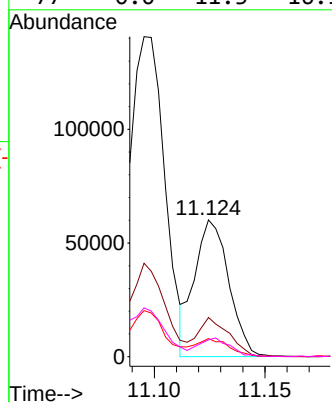
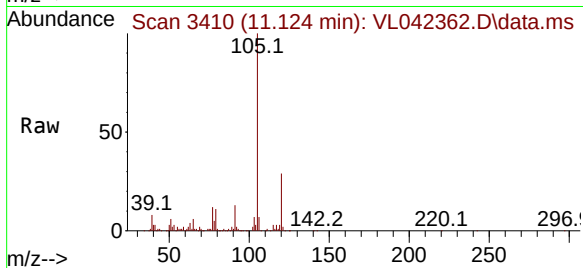
Instrument :

MSVOA_L

ClientSampleId :

IA-B1-4-3252025DUP

Tgt Ion:	105	Resp:	64934
Ion	Ratio	Lower	Upper
105	100		
120	0.0	23.2	34.8#
91	0.0	10.4	15.6#
77	0.0	11.3	16.9#



#73

1,3,5-Trimethylbenzene

Concen: 1.336 ppbv

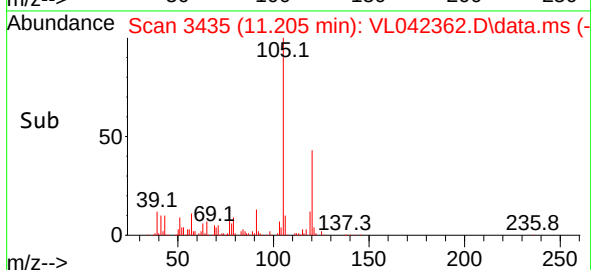
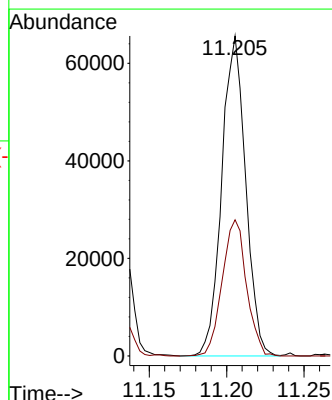
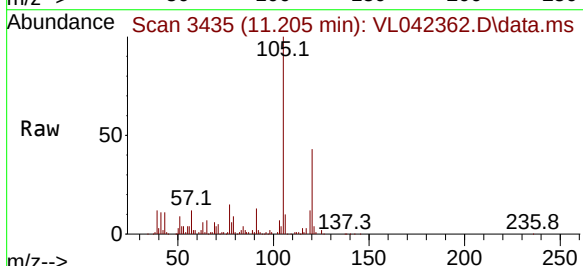
RT: 11.205 min Scan# 3435

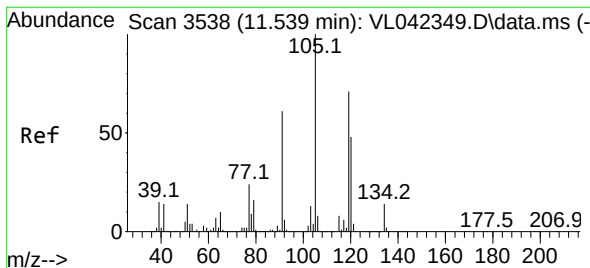
Delta R.T. -0.000 min

Lab File: VL042362.D

Acq: 17 Apr 2025 17:51

Tgt Ion:	105	Resp:	70431
Ion	Ratio	Lower	Upper
105	100		
120	42.6	35.6	53.4





#74

1,2,4-Trimethylbenzene

Concen: 3.931 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. -0.000 min

Lab File: VL042362.D

Acq: 17 Apr 2025 17:51

Instrument :

MSVOA_L

ClientSampleId :

IA-B1-4-3252025DUP

Tgt Ion:105 Resp: 242011

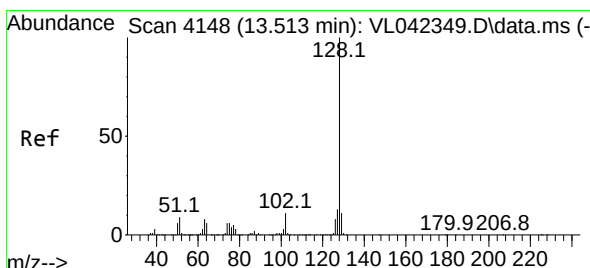
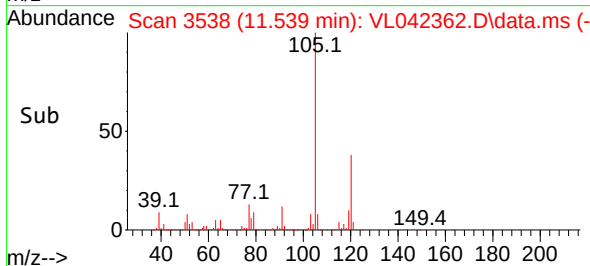
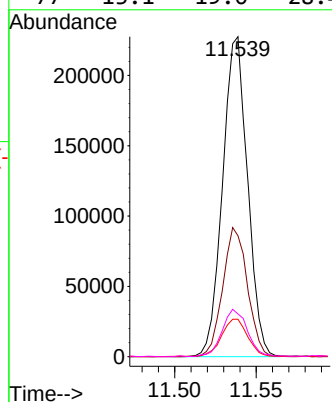
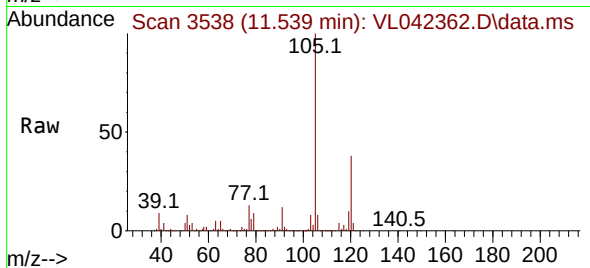
Ion Ratio Lower Upper

105 100

120 37.8 38.1 57.1#

91 11.6 48.8 73.2#

77 13.1 19.0 28.4#



#79

Naphthalene

Concen: 0.626 ppbv

RT: 13.513 min Scan# 4148

Delta R.T. -0.000 min

Lab File: VL042362.D

Acq: 17 Apr 2025 17:51

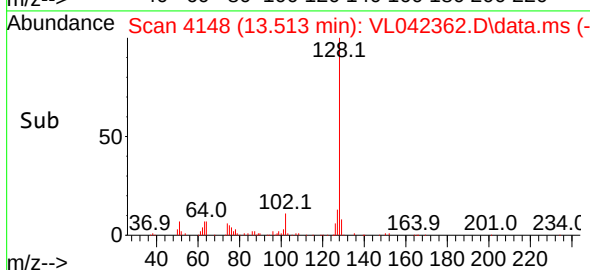
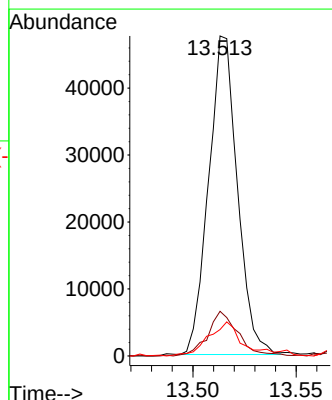
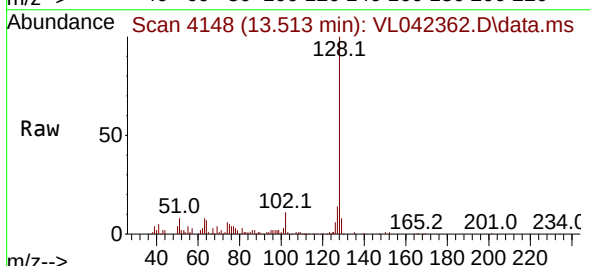
Tgt Ion:128 Resp: 46070

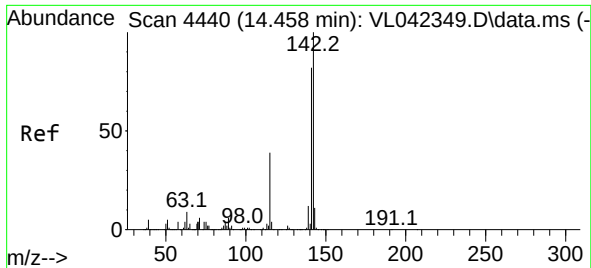
Ion Ratio Lower Upper

128 100

127 13.7 10.6 15.8

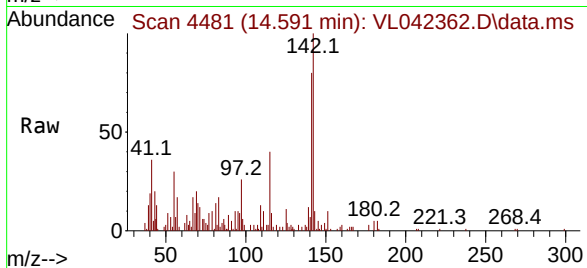
129 7.6 8.6 12.8#



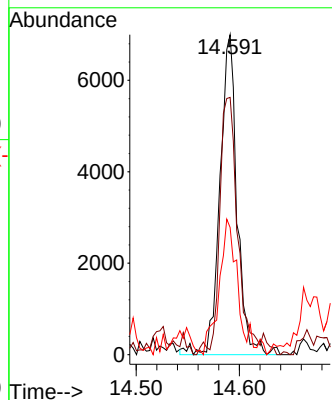
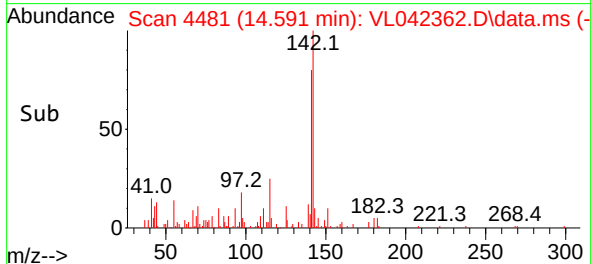


#80
 Naphthalene, 2-methyl-
 Concen: 0.193 ppbv
 RT: 14.591 min Scan# 44
 Delta R.T. 0.133 min
 Lab File: VL042362.D
 Acq: 17 Apr 2025 17:51

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B1-4-3252025DUP



Tgt Ion:	142	Resp:	8081
Ion	Ratio	Lower	Upper
142	100		
141	86.3	66.8	100.2
115	42.8	33.4	50.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042363.D
 Acq On : 17 Apr 2025 18:24
 Operator : SY/MD
 Sample : Q1668-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B1-3-3252025

Quant Time: Apr 18 02:40:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 02:14:00 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	117934	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	342044	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	304398	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	248134	9.920	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.200%

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.499	85	9160	0.440	ppbv	95
3) Chlorodifluoromethane	1.476	51	9426	0.475	ppbv	93
4) Chloromethane	1.531	50	4904	0.595	ppbv #	87
6) Bromomethane	1.670	94	153	0.040	ppbv #	79
7) Chloroethane	1.680	64	102	0.031	ppbv #	1
8) Dichlorotetrafluoroethane	1.551	85	732	0.041	ppbv #	68
9) Propene	1.486	41	5102	0.565	ppbv	84
10) Heptane	4.981	43	38916	1.533	ppbv	97
11) Trichlorofluoromethane	1.874	101	4391	0.222	ppbv	92
12) 1,1,2-Trichlorotrifluo...	2.143	101	1232	0.076	ppbv	91
13) Ethanol	1.719	45	261942	182.383	ppbv	74
15) Acetone	1.835	43	99681	5.163	ppbv	92
16) 1,3-Butadiene	1.599	39	5406	0.585	ppbv #	36
17) tert-Butyl alcohol	2.046	59	3174	0.133	ppbv #	41
19) Isopropyl Alcohol	1.887	45	27920	2.603	ppbv #	36
20) Methylene Chloride	2.062	84	6217	0.822	ppbv	98
21) Allyl Chloride	2.078	41	1524	0.114	ppbv #	54
23) Vinyl Acetate	2.457	43	4881	0.625	ppbv #	65
25) Ethyl Acetate	2.826	43	32622	0.685	ppbv #	81
26) Hexane	2.826	57	45627	2.369	ppbv #	32
27) Carbon Disulfide	2.149	76	5126	0.249	ppbv #	1
30) Cyclohexane	3.852	84	16394	1.053	ppbv #	1
34) 2-Butanone	2.557	43	20715	0.766	ppbv	98
35) Carbon Tetrachloride	3.761	117	1016	0.033	ppbv #	47
36) Benzene	3.654	78	20999	0.569	ppbv #	93
39) 1,2-Dichloropropane	3.955	63	93853	6.827	ppbv #	23
41) Tetrahydrofuran	3.075	42	1322	0.084	ppbv #	49
44) 2,2,4-Trimethylpentane	4.638	57	5226	0.082	ppbv #	42
50) 4-Methyl-2-Pentanone	5.748	43	689390	15.336	ppbv	98
53) Toluene	6.936	91	63791	1.441	ppbv	100
58) Ethyl Benzene	9.351	91	69152	1.147	ppbv	94
59) m/p-Xylene	9.529	91	373837	7.695	ppbv	99
60) o-Xylene	9.966	91	127919	2.615	ppbv	99
61) Styrene	9.869	104	18463	0.791	ppbv	98
62) Isopropylbenzene	10.539	105	11682	0.163	ppbv	98
64) n-propylbenzene	10.992	120	5104	0.283	ppbv #	1
65) tert-Butylbenzene	11.536	119	35413	0.536	ppbv #	76
66) Benzyl Chloride	11.536	91	37225	5.131	ppbv #	70
67) sec-Butylbenzene	11.769	105	8682	0.095	ppbv	92
69) p-Isopropyltoluene	11.924	119	9270	0.116	ppbv	97
70) n-Butylbenzene	12.283	91	24716	0.297	ppbv #	80
72) 4-Ethyltoluene	11.124	105	83127	1.390	ppbv #	56
73) 1,3,5-Trimethylbenzene	11.202	105	91013	1.724	ppbv	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042363.D
Acq On : 17 Apr 2025 18:24
Operator : SY/MD
Sample : Q1668-03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

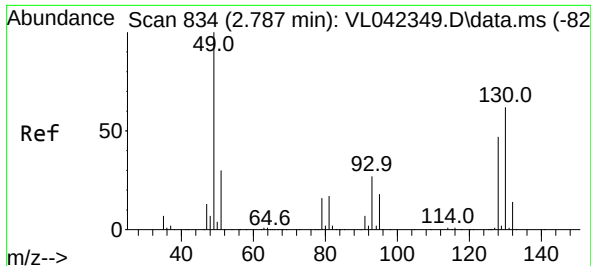
Quant Time: Apr 18 02:40:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
74) 1,2,4-Trimethylbenzene	11.536	105	321031	5.205	ppbv	# 64
79) Naphthalene	13.513	128	34268	0.465	ppbv	97
80) Naphthalene,2-methyl-	14.588	142	8582	0.204	ppbv	97

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

Quant Time: Apr 18 02:40:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

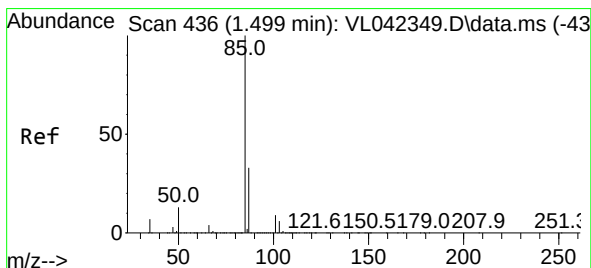
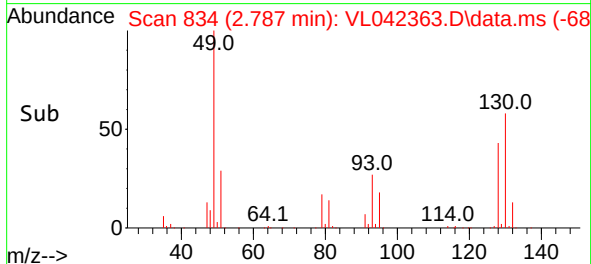
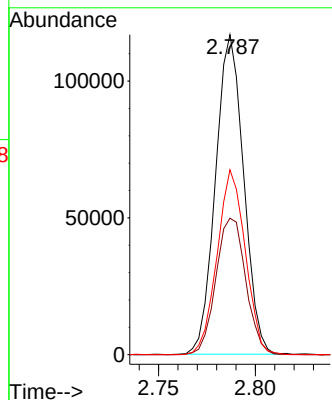
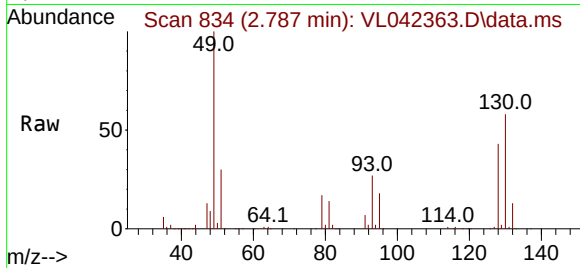




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 834
Delta R.T. -0.000 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

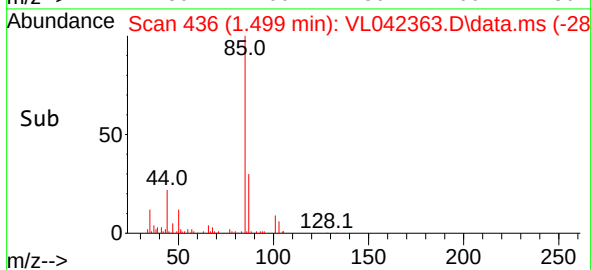
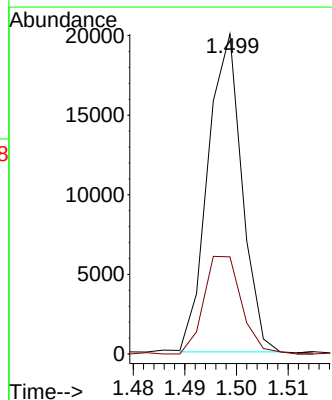
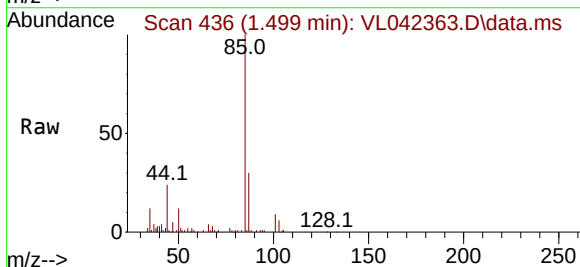
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

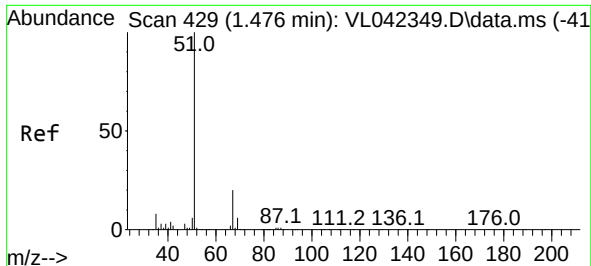
Tgt Ion: 49 Resp: 117934
Ion Ratio Lower Upper
49 100
128 45.4 22.8 68.4
130 58.0 29.3 88.0



#2
Dichlorodifluoromethane
Concen: 0.440 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion: 85 Resp: 9160
Ion Ratio Lower Upper
85 100
87 30.5 26.6 39.8

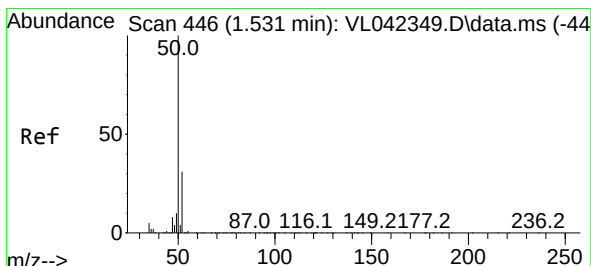
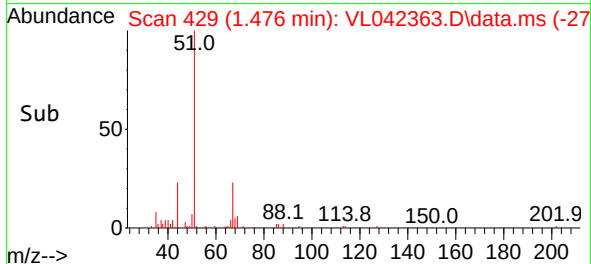
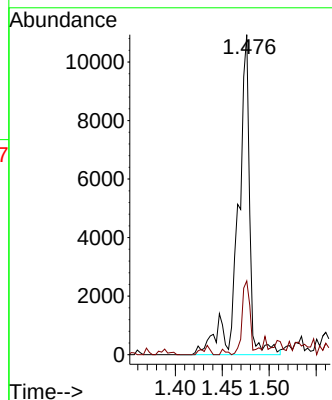
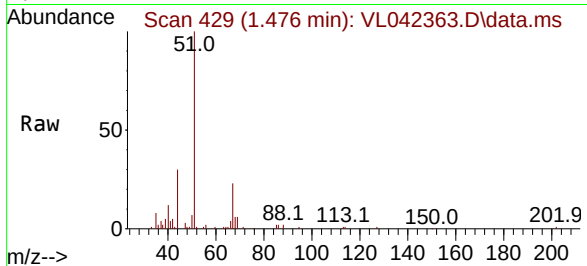




#3
Chlorodifluoromethane
Concen: 0.475 ppbv
RT: 1.476 min Scan# 429
Delta R.T. -0.000 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

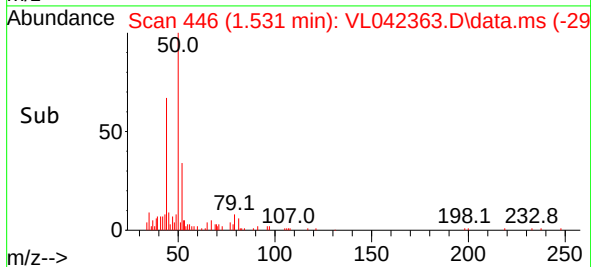
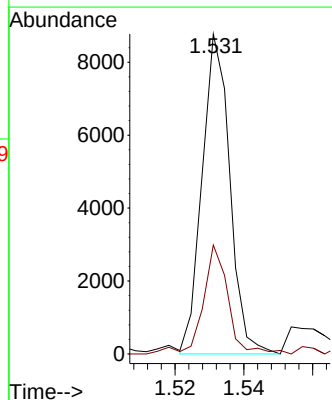
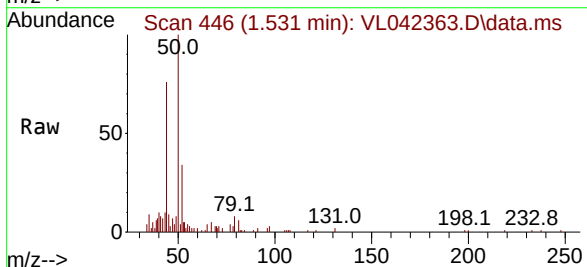
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

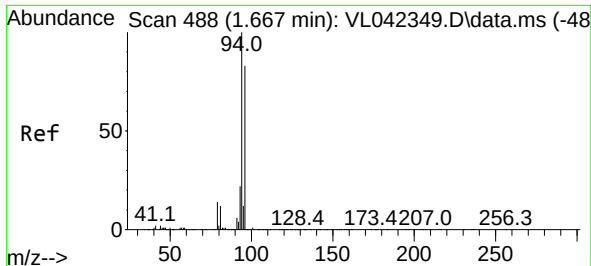
Tgt Ion: 51 Resp: 9426
Ion Ratio Lower Upper
51 100
67 17.2 16.2 24.4



#4
Chloromethane
Concen: 0.595 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion: 50 Resp: 4904
Ion Ratio Lower Upper
50 100
52 37.8 24.7 37.1#

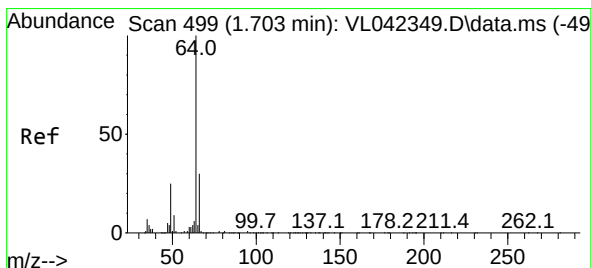
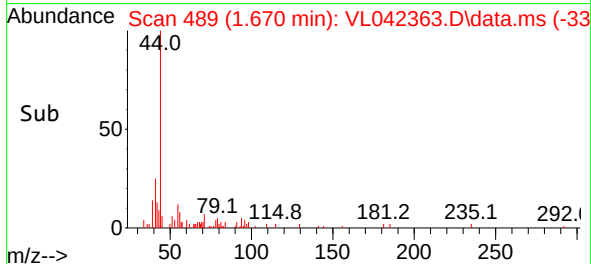
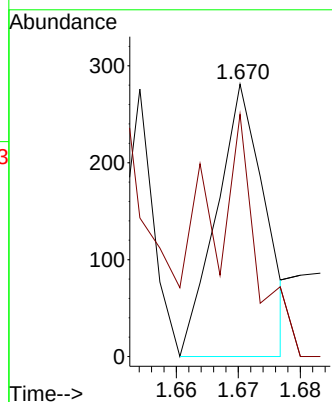
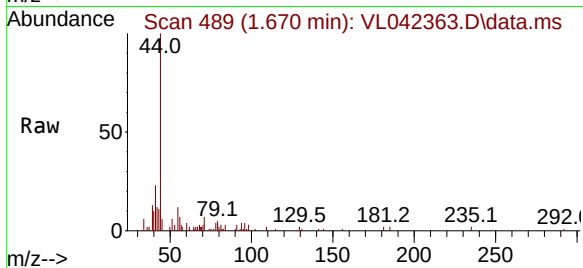




#6
Bromomethane
Concen: 0.040 ppbv
RT: 1.670 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

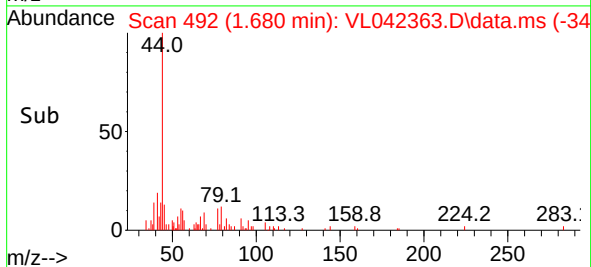
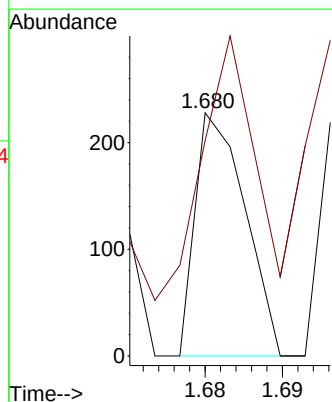
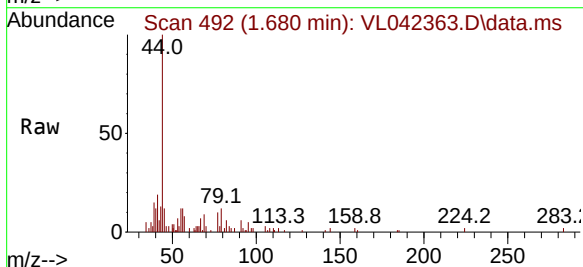
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

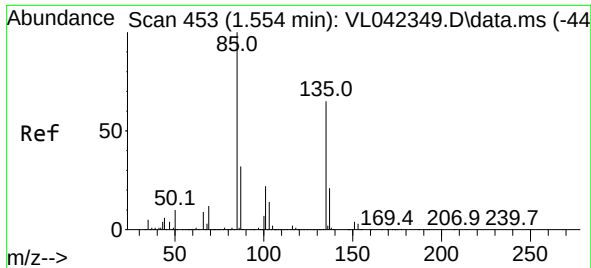
Tgt Ion: 94 Resp: 153
Ion Ratio Lower Upper
94 100
96 63.7 66.2 99.2#



#7
Chloroethane
Concen: 0.031 ppbv
RT: 1.680 min Scan# 492
Delta R.T. -0.023 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion: 64 Resp: 102
Ion Ratio Lower Upper
64 100
66 279.4 24.6 37.0#

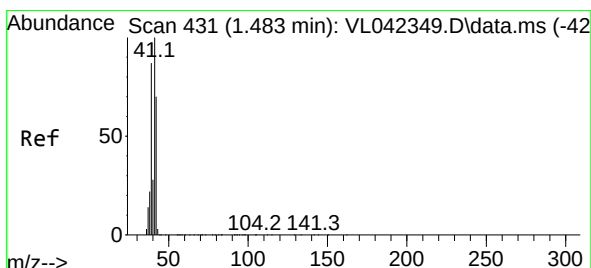
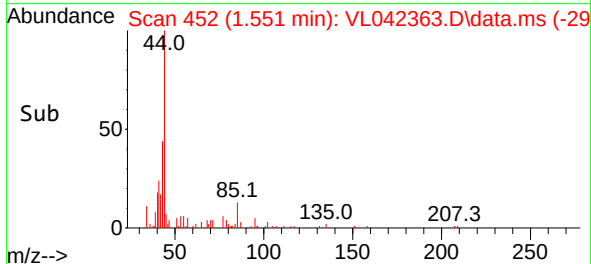
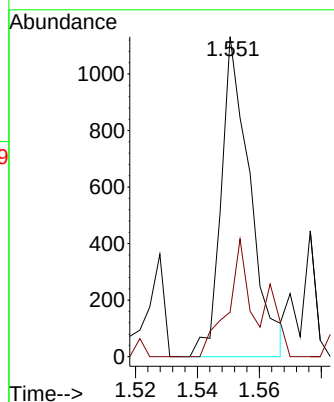
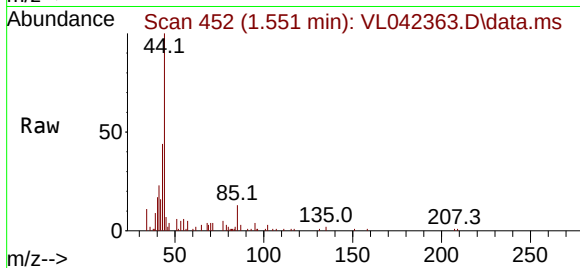




#8
 Dichlorotetrafluoroethane
 Concen: 0.041 ppbv
 RT: 1.551 min Scan# 41
 Delta R.T. -0.003 min
 Lab File: VL042363.D
 Acq: 17 Apr 2025 18:24

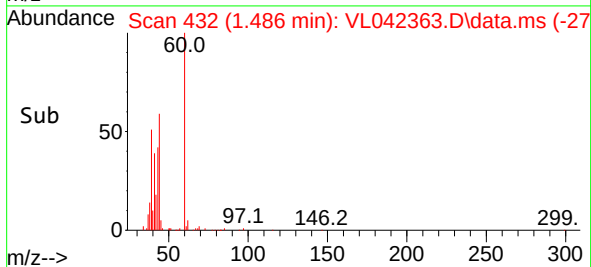
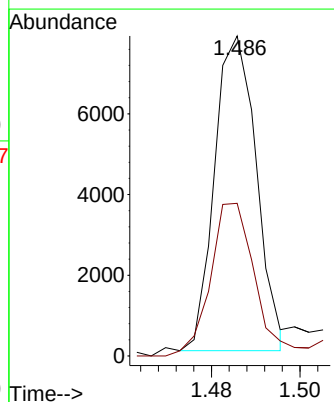
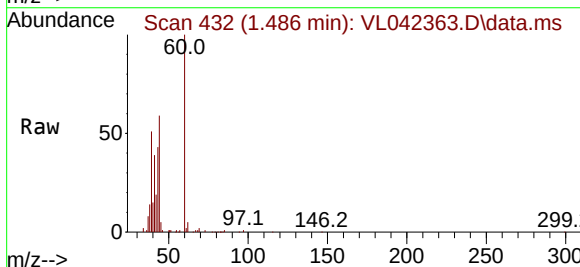
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B1-3-3252025

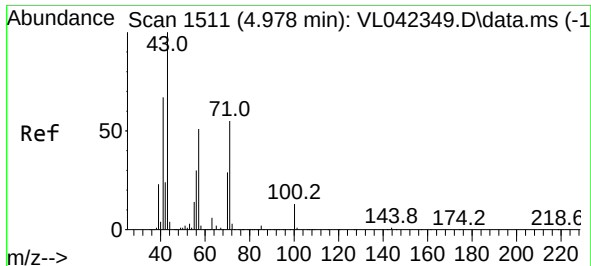
Tgt Ion: 85 Resp: 732
 Ion Ratio Lower Upper
 85 100
 135 39.9 52.2 78.2#



#9
 Propene
 Concen: 0.565 ppbv
 RT: 1.486 min Scan# 432
 Delta R.T. 0.003 min
 Lab File: VL042363.D
 Acq: 17 Apr 2025 18:24

Tgt Ion: 41 Resp: 5102
 Ion Ratio Lower Upper
 41 100
 42 57.3 56.2 84.4

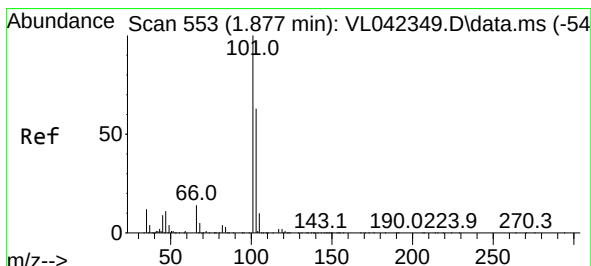
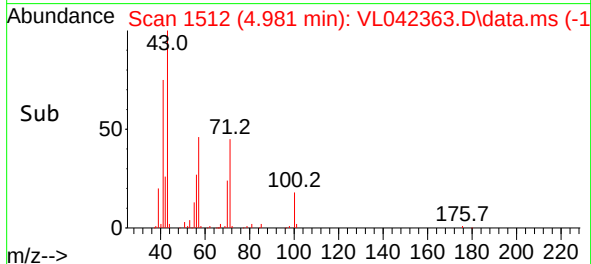
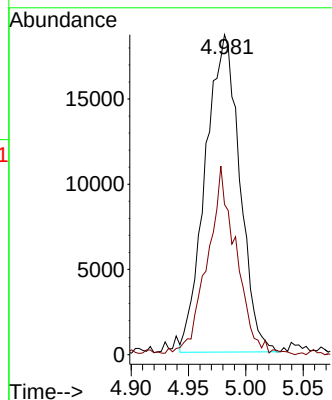
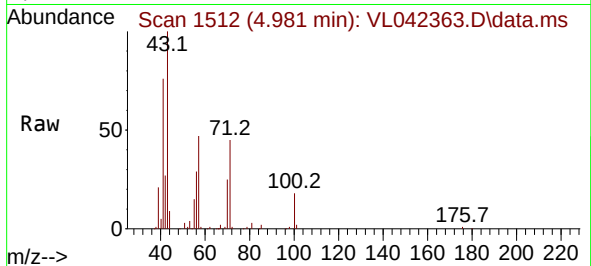




#10
Heptane
Concen: 1.533 ppbv
RT: 4.981 min Scan# 1511
Delta R.T. 0.003 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

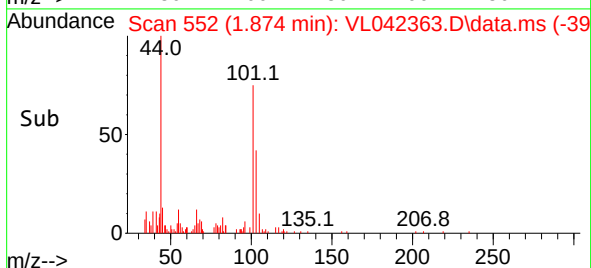
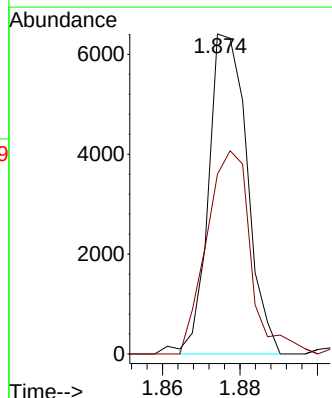
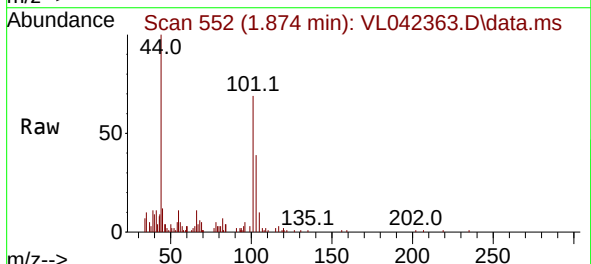
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

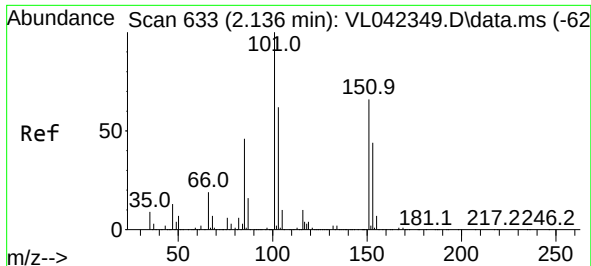
Tgt Ion: 43 Resp: 38916
Ion Ratio Lower Upper
43 100
57 51.7 39.9 59.9



#11
Trichlorofluoromethane
Concen: 0.222 ppbv
RT: 1.874 min Scan# 552
Delta R.T. -0.003 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion: 101 Resp: 4391
Ion Ratio Lower Upper
101 100
103 56.2 50.1 75.1

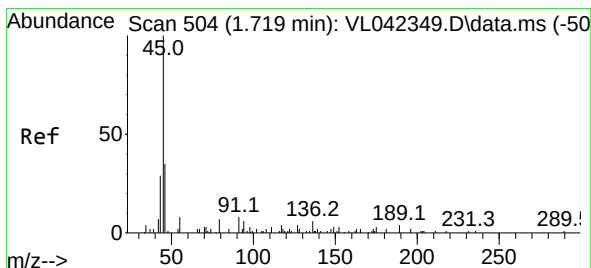
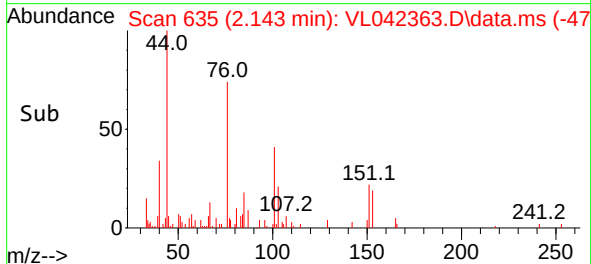
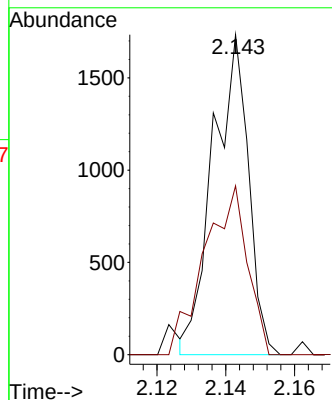
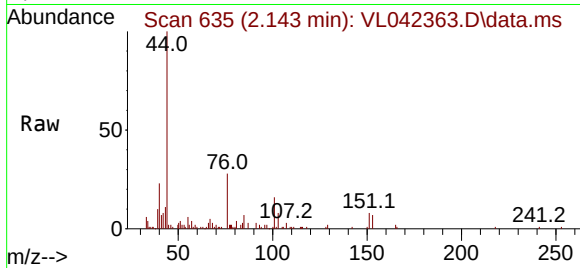




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.076 ppbv
RT: 2.143 min Scan# 61
Delta R.T. 0.006 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

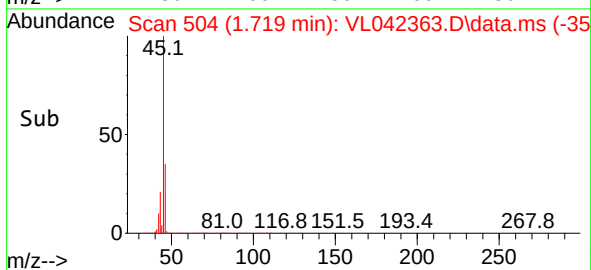
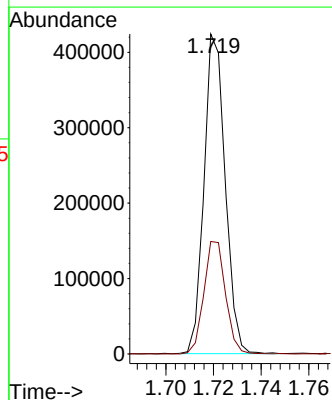
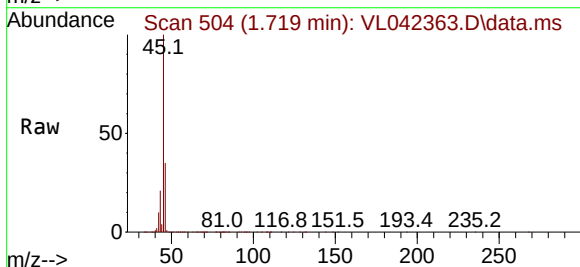
Instrument :
MSVOA_1
ClientSampleId :
IA-B1-3-3252025

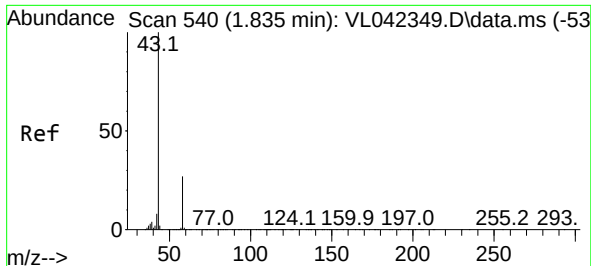
Tgt Ion:101 Resp: 1232
Ion Ratio Lower Upper
101 100
151 64.2 57.0 85.6



#13
Ethanol
Concen: 182.383 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion: 45 Resp: 261942
Ion Ratio Lower Upper
45 100
46 36.2 21.9 87.7

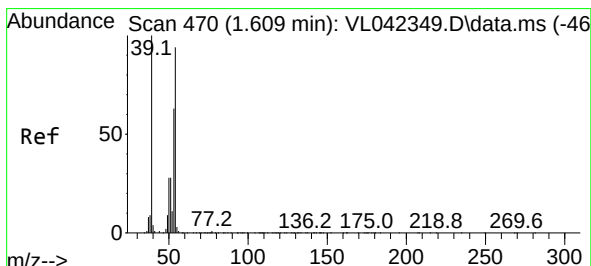
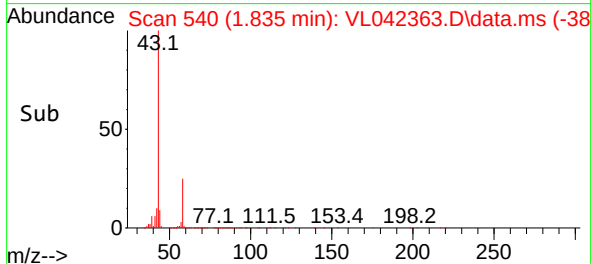
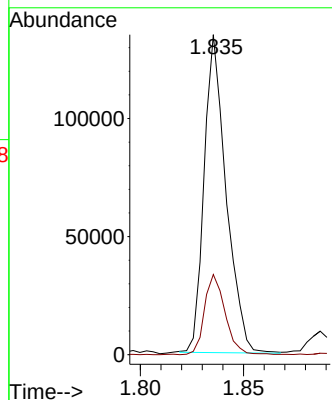
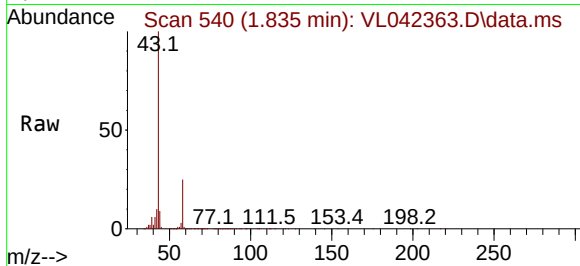




#15
Acetone
Concen: 5.163 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

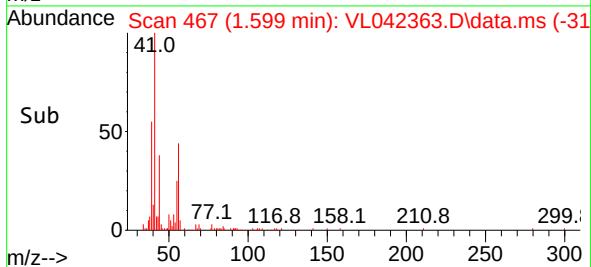
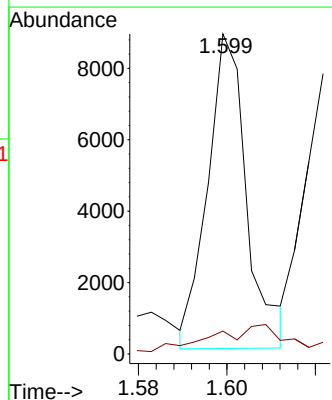
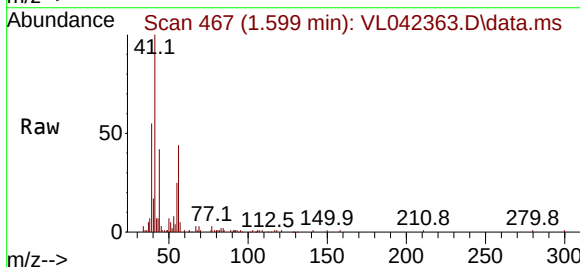
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

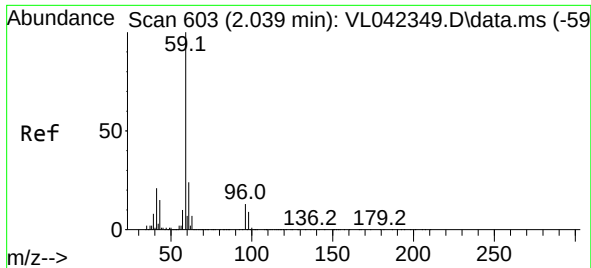
Tgt Ion: 43 Resp: 99681
Ion Ratio Lower Upper
43 100
58 23.6 22.4 33.6



#16
1,3-Butadiene
Concen: 0.585 ppbv
RT: 1.599 min Scan# 467
Delta R.T. -0.010 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion: 39 Resp: 5406
Ion Ratio Lower Upper
39 100
54 24.3 64.9 97.3#

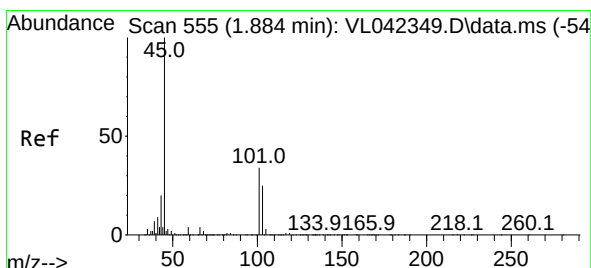
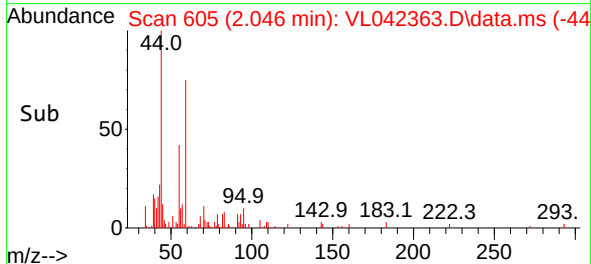
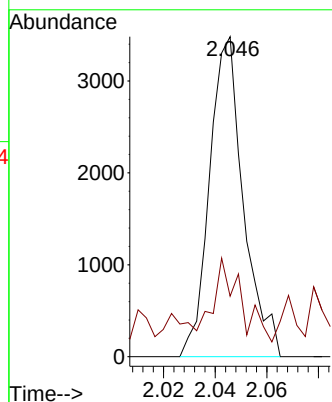
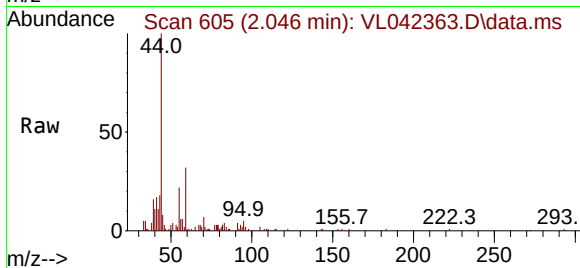




#17
tert-Butyl alcohol
Concen: 0.133 ppbv
RT: 2.046 min Scan# 603
Delta R.T. 0.006 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

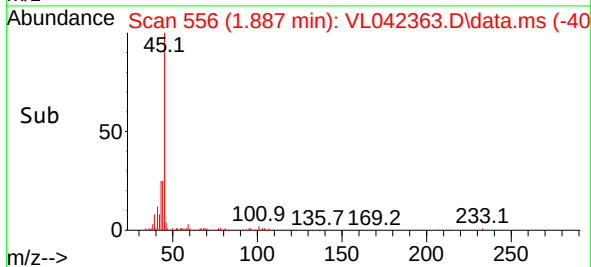
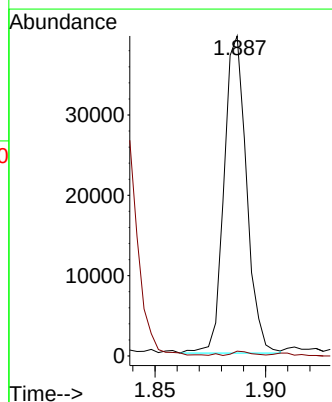
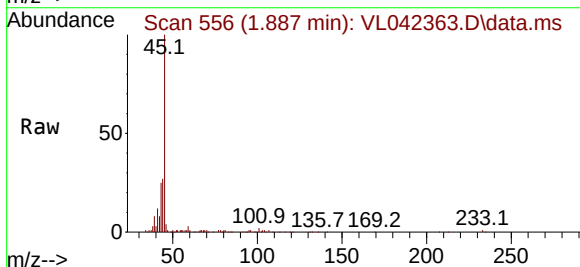
Instrument :
MSVOA_1
ClientSampleId :
IA-B1-3-3252025

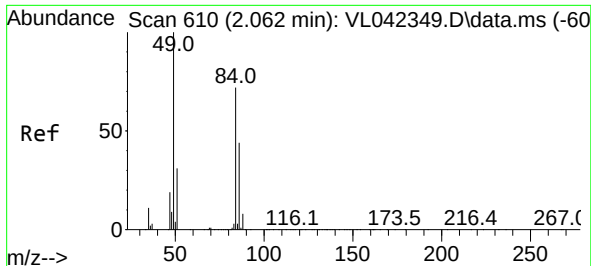
Tgt Ion: 59 Resp: 3174
Ion Ratio Lower Upper
59 100
57 33.4 8.7 13.1#



#19
Isopropyl Alcohol
Concen: 2.603 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion: 45 Resp: 27920
Ion Ratio Lower Upper
45 100
58 84.1 34.5 51.7#





#20

Methylene Chloride

Concen: 0.822 ppbv

RT: 2.062 min Scan# 610

Delta R.T. -0.000 min

Lab File: VL042363.D

Acq: 17 Apr 2025 18:24

Instrument :

MSVOA_L

ClientSampleId :

IA-B1-3-3252025

Tgt Ion: 84 Resp: 6217

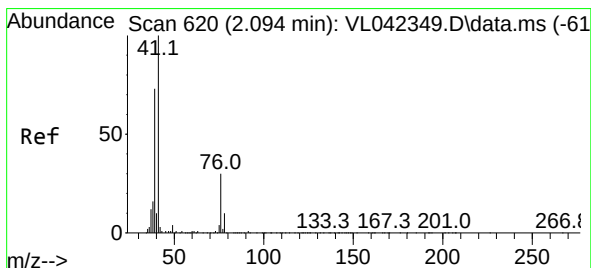
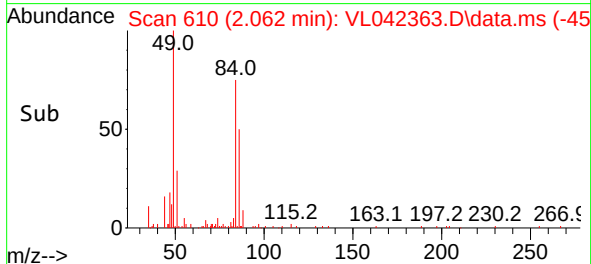
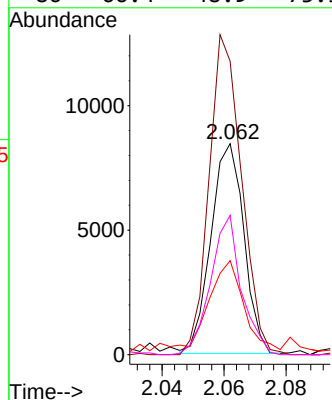
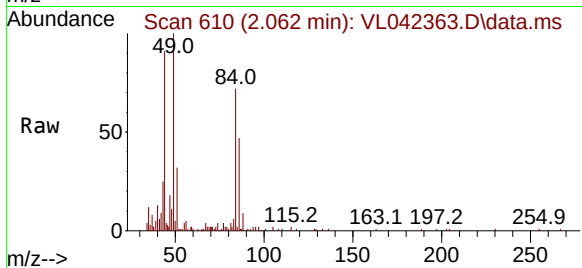
Ion Ratio Lower Upper

84 100

49 139.8 111.6 167.4

51 42.4 35.1 52.7

86 66.4 48.9 73.3



#21

Allyl Chloride

Concen: 0.114 ppbv

RT: 2.078 min Scan# 615

Delta R.T. -0.016 min

Lab File: VL042363.D

Acq: 17 Apr 2025 18:24

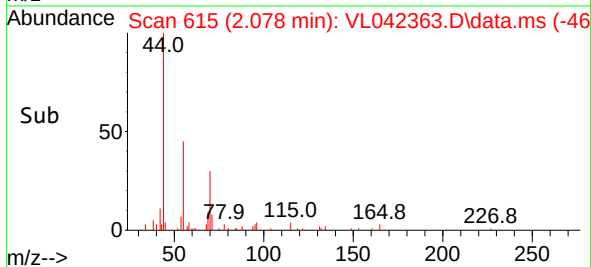
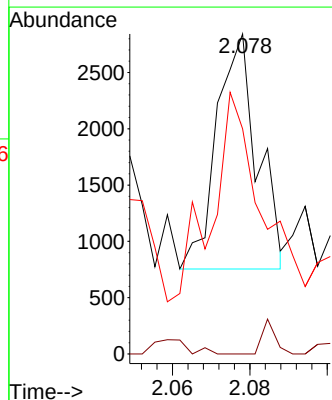
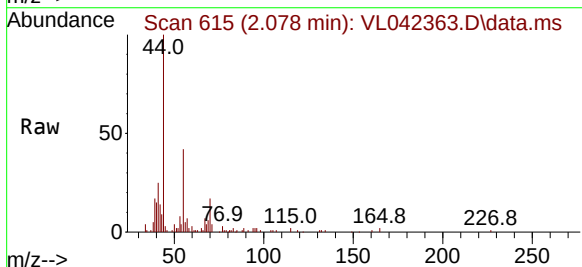
Tgt Ion: 41 Resp: 1524

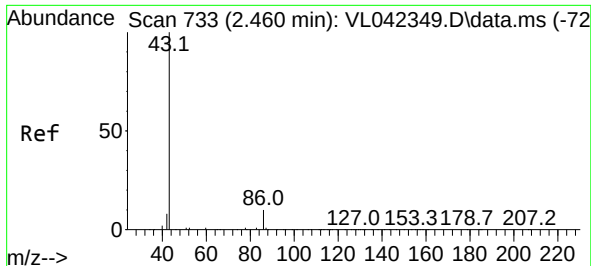
Ion Ratio Lower Upper

41 100

76 0.0 24.8 37.2#

39 111.5 60.6 90.8#



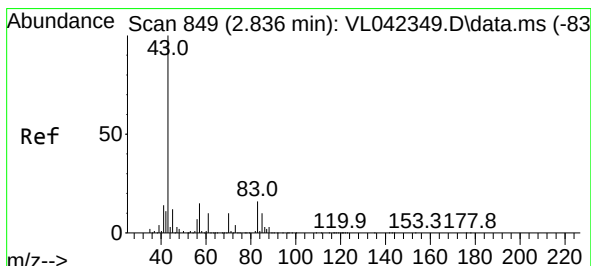
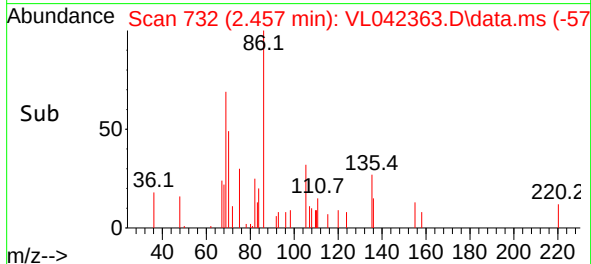
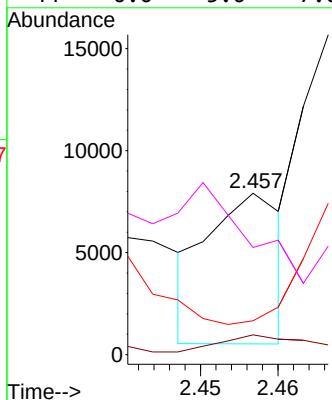
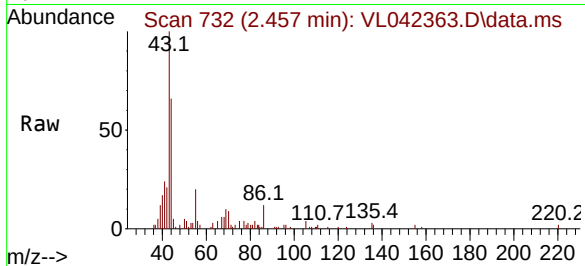


#23
 Vinyl Acetate
 Concen: 0.625 ppbv
 RT: 2.457 min Scan# 71
 Delta R.T. -0.003 min
 Lab File: VL042363.D
 Acq: 17 Apr 2025 18:24

Instrument :
 MSVOA_1
 ClientSampleId :
 IA-B1-3-3252025

Tgt Ion: 43 Resp: 4881

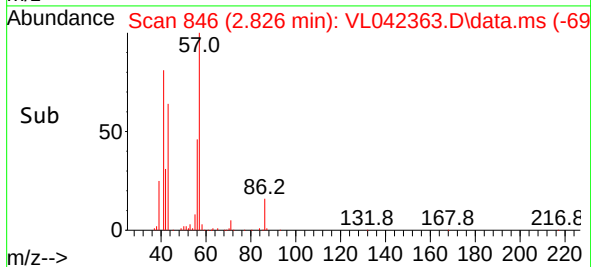
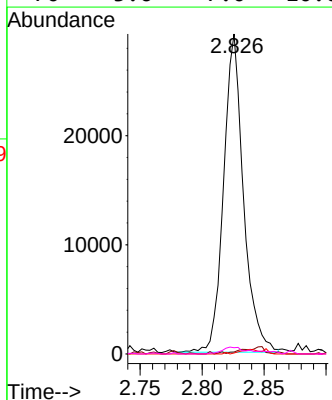
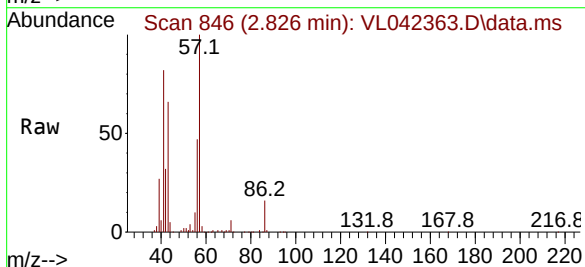
Ion	Ratio	Lower	Upper
43	100		
86	28.9	6.5	9.7#
42	0.0	7.8	11.8#
44	0.0	5.0	7.6#

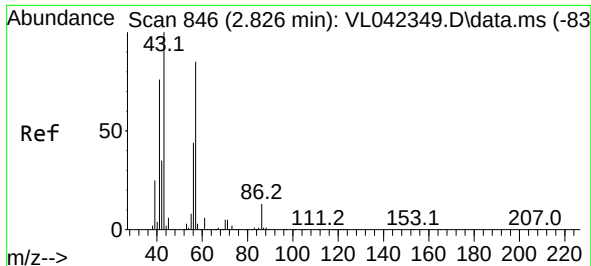


#25
 Ethyl Acetate
 Concen: 0.685 ppbv
 RT: 2.826 min Scan# 846
 Delta R.T. -0.010 min
 Lab File: VL042363.D
 Acq: 17 Apr 2025 18:24

Tgt Ion: 43 Resp: 32622

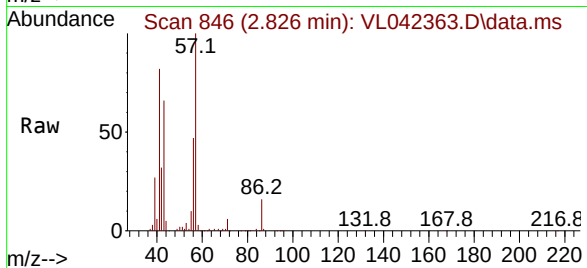
Ion	Ratio	Lower	Upper
43	100		
45	2.8	8.3	12.5#
61	1.7	7.3	10.9#
70	3.6	7.0	10.6#





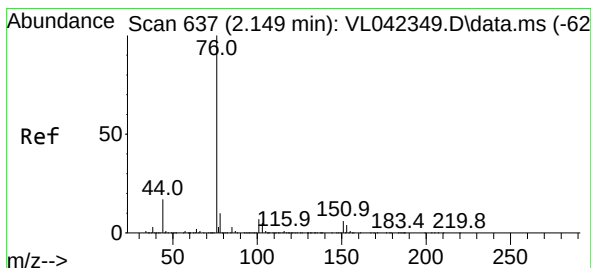
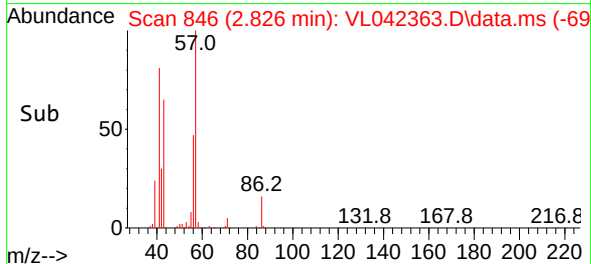
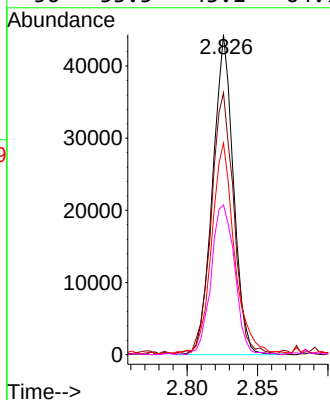
#26
Hexane
Concen: 2.369 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.000 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025



Tgt Ion: 57 Resp: 45627

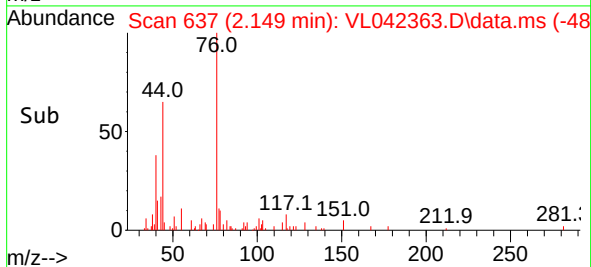
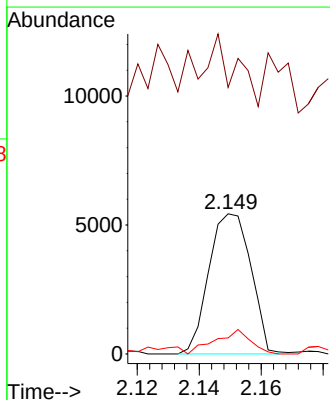
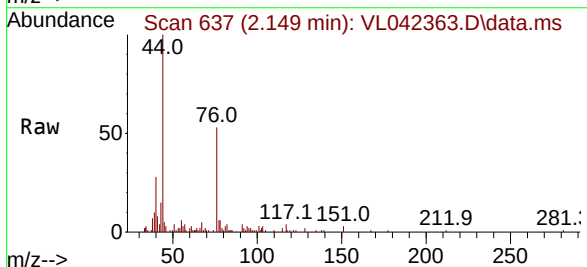
Ion	Ratio	Lower	Upper
57	100		
41	87.3	77.9	116.9
43	74.0	208.4	312.6#
56	53.5	43.1	64.7

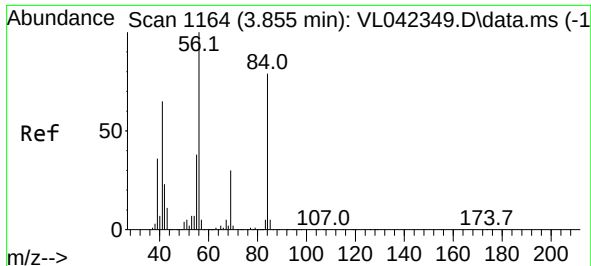


#27
Carbon Disulfide
Concen: 0.249 ppbv
RT: 2.149 min Scan# 637
Delta R.T. -0.000 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion: 76 Resp: 5126

Ion	Ratio	Lower	Upper
76	100		
44	690.9	15.5	23.3#
78	20.0	9.3	13.9#

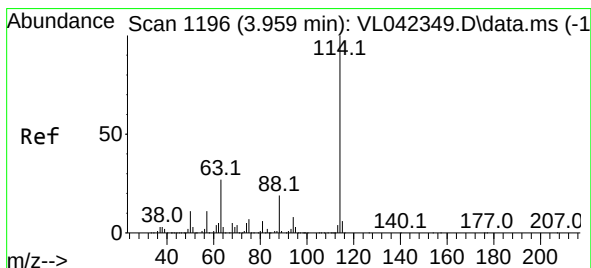
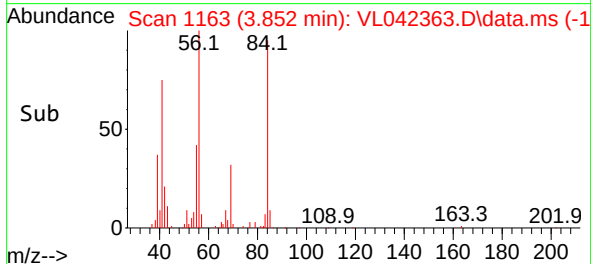
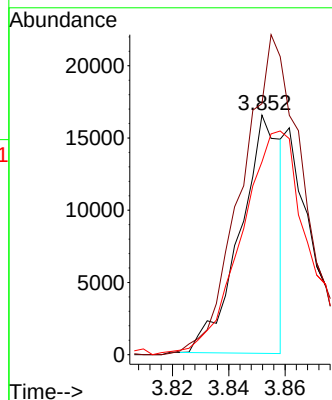
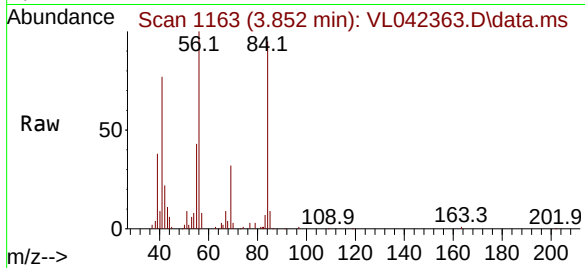




#30
Cyclohexane
Concen: 1.053 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. -0.003 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

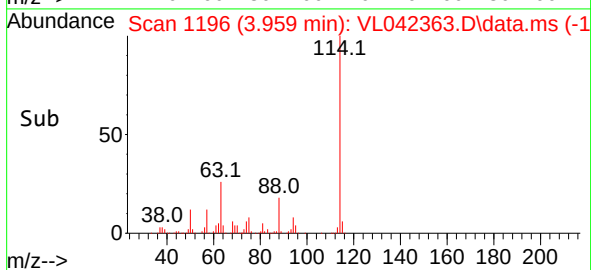
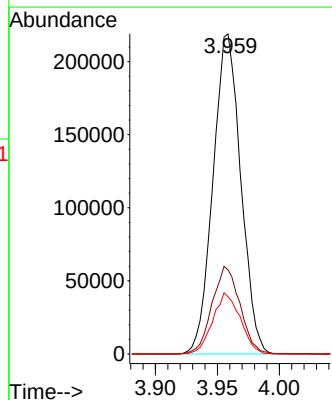
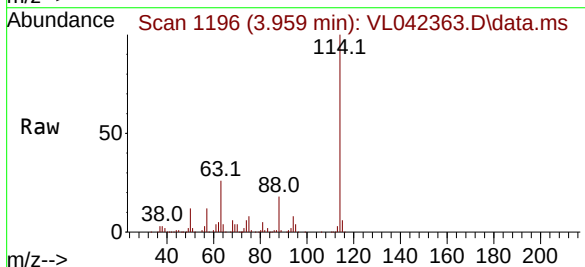
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

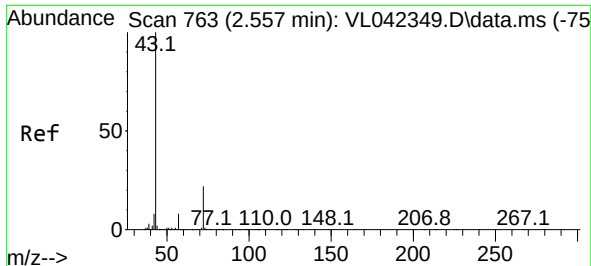
Tgt Ion: 84 Resp: 16394
Ion Ratio Lower Upper
84 100
56 0.0 101.0 151.4#
41 0.0 67.4 101.0#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. -0.000 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion: 114 Resp: 342044
Ion Ratio Lower Upper
114 100
63 27.4 21.8 32.6
88 18.9 15.5 23.3

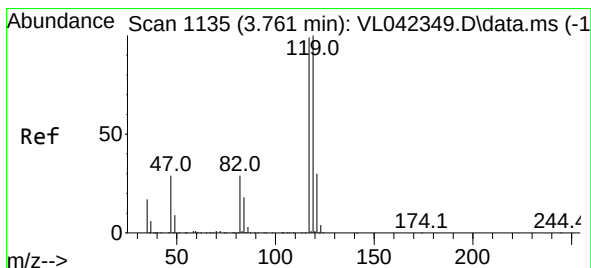
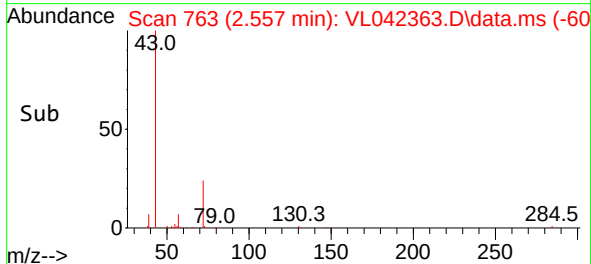
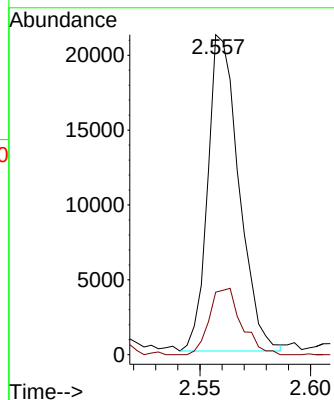
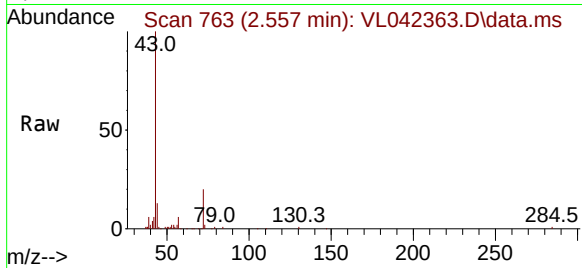




#34
2-Butanone
Concen: 0.766 ppbv
RT: 2.557 min Scan# 763
Delta R.T. -0.000 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

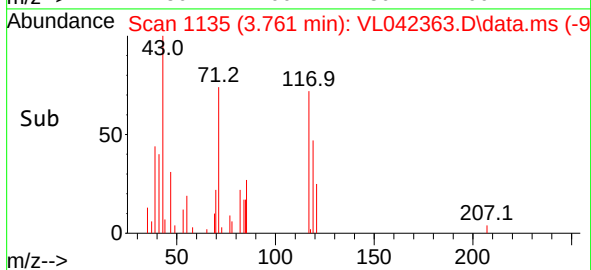
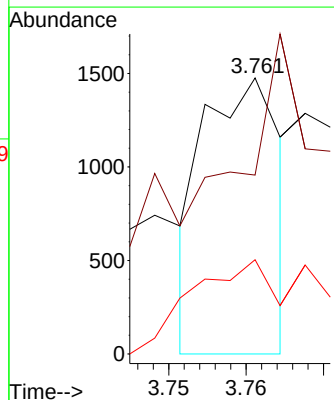
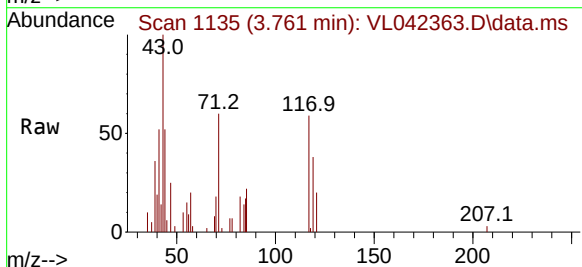
Instrument :
MSVOA_1
ClientSampleId :
IA-B1-3-3252025

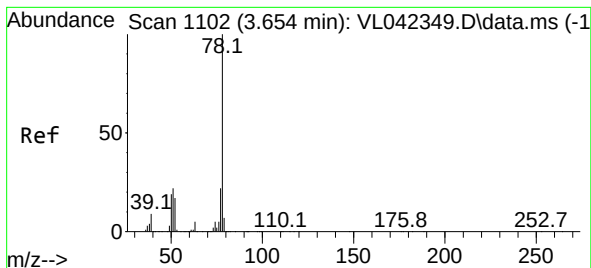
Tgt Ion: 43 Resp: 20715
Ion Ratio Lower Upper
43 100
72 21.5 18.2 27.2



#35
Carbon Tetrachloride
Concen: 0.033 ppbv
RT: 3.761 min Scan# 1135
Delta R.T. -0.000 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion: 117 Resp: 1016
Ion Ratio Lower Upper
117 100
119 32.3 80.5 120.7#
121 29.1 24.2 36.2





#36

Benzene

Concen: 0.569 ppbv

RT: 3.654 min Scan# 1102

Delta R.T. -0.000 min

Lab File: VL042363.D

Acq: 17 Apr 2025 18:24

Instrument :

MSVOA_L

ClientSampleId :

IA-B1-3-3252025

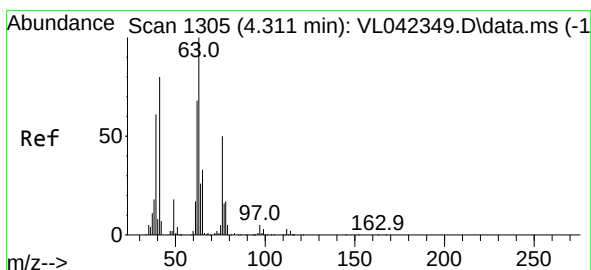
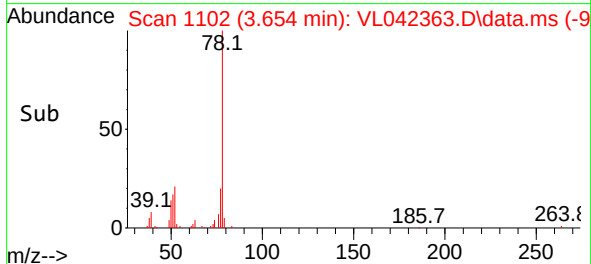
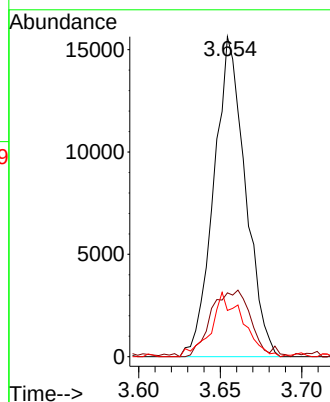
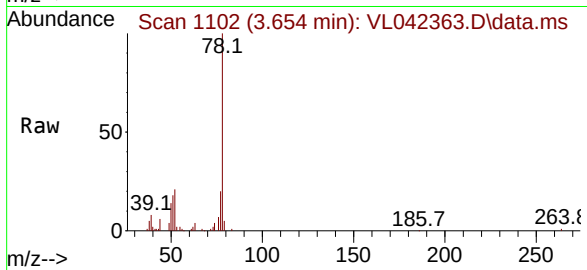
Tgt Ion: 78 Resp: 20999

Ion Ratio Lower Upper

78 100

77 20.0 17.4 26.0

50 14.4 15.5 23.3#



#39

1,2-Dichloropropane

Concen: 6.827 ppbv

RT: 3.955 min Scan# 1195

Delta R.T. -0.356 min

Lab File: VL042363.D

Acq: 17 Apr 2025 18:24

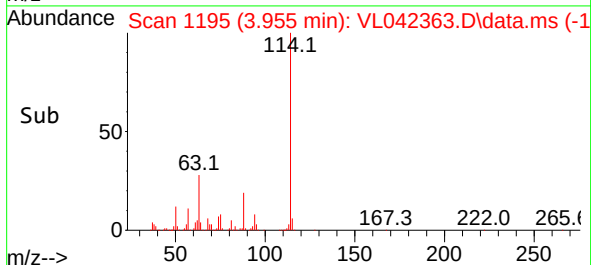
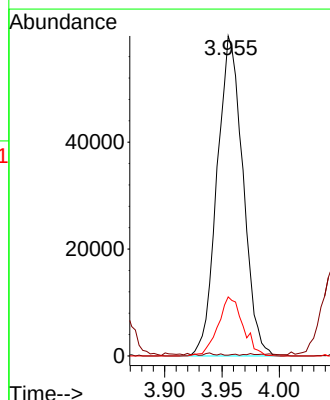
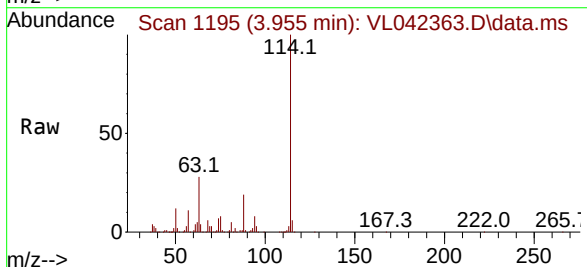
Tgt Ion: 63 Resp: 93853

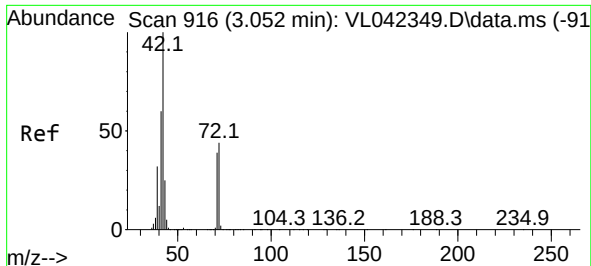
Ion Ratio Lower Upper

63 100

41 0.0 64.2 96.2#

62 18.5 54.3 81.5#

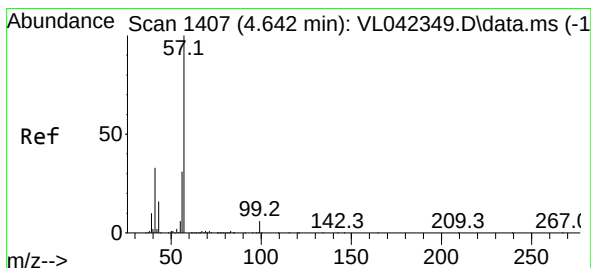
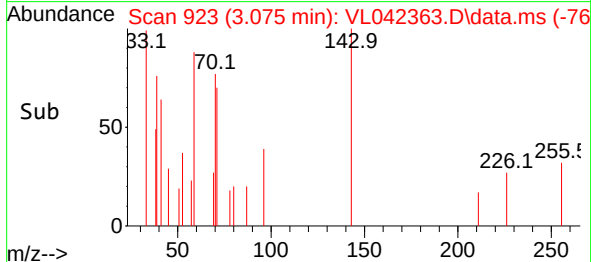
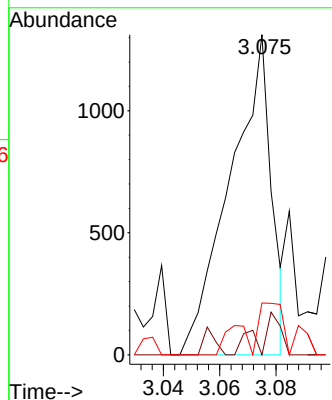
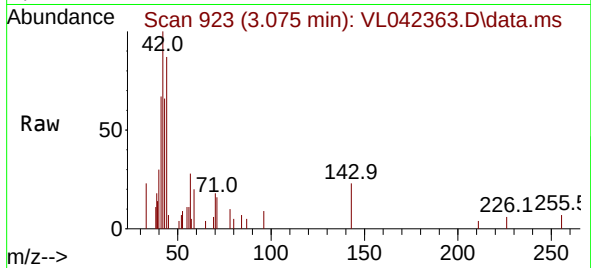




#41
Tetrahydrofuran
Concen: 0.084 ppbv
RT: 3.075 min Scan# 916
Delta R.T. 0.023 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

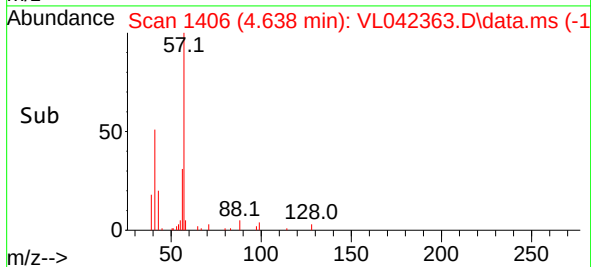
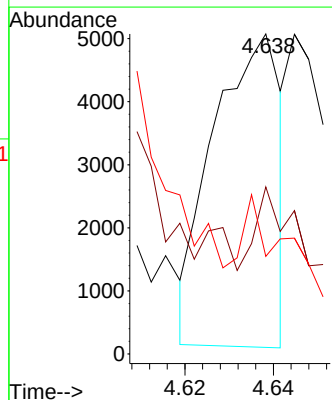
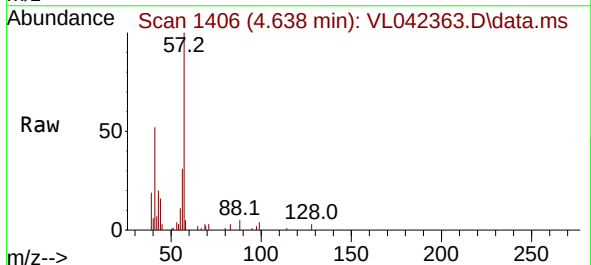
Instrument :
MSVOA_1
ClientSampleId :
IA-B1-3-3252025

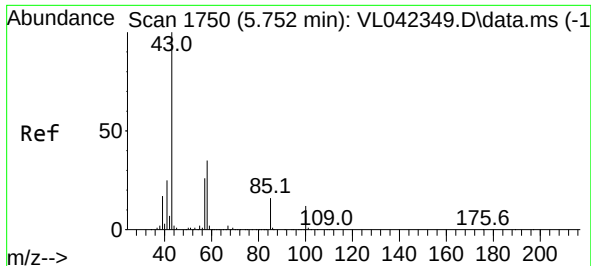
Tgt Ion: 42 Resp: 1322
Ion Ratio Lower Upper
42 100
72 0.0 32.3 48.5#
71 17.1 31.4 47.2#



#44
2,2,4-Trimethylpentane
Concen: 0.082 ppbv
RT: 4.638 min Scan# 1406
Delta R.T. -0.003 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion: 57 Resp: 5226
Ion Ratio Lower Upper
57 100
41 0.0 27.2 40.8#
56 0.0 25.7 38.5#





#50

4-Methyl-2-Pentanone

Concen: 15.336 ppbv

RT: 5.748 min Scan# 1

Delta R.T. -0.003 min

Lab File: VL042363.D

Acq: 17 Apr 2025 18:24

Instrument :

MSVOA_L

ClientSampleId :

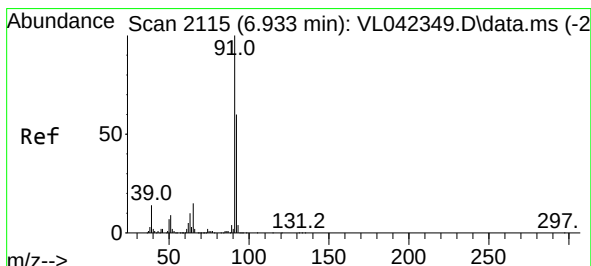
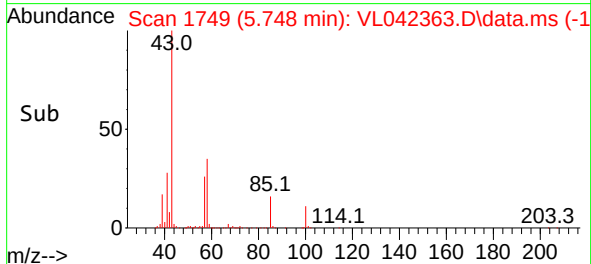
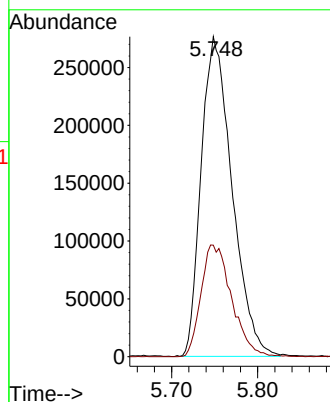
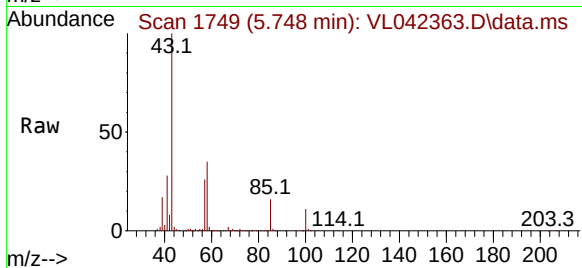
IA-B1-3-3252025

Tgt Ion: 43 Resp: 689390

Ion Ratio Lower Upper

43 100

58 34.7 28.6 43.0



#53

Toluene

Concen: 1.441 ppbv

RT: 6.936 min Scan# 2116

Delta R.T. 0.003 min

Lab File: VL042363.D

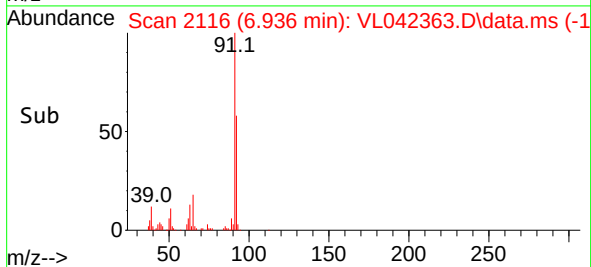
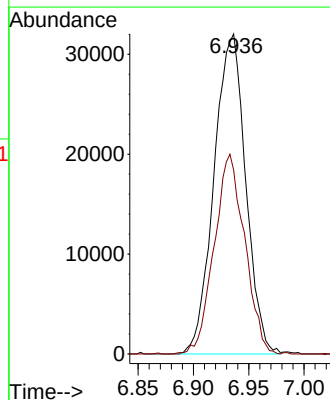
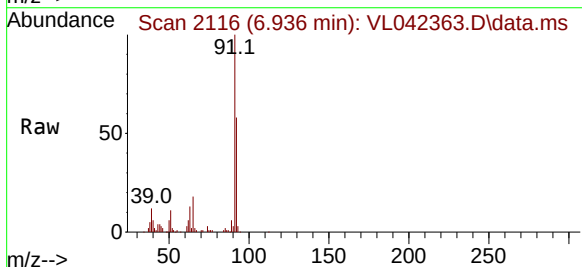
Acq: 17 Apr 2025 18:24

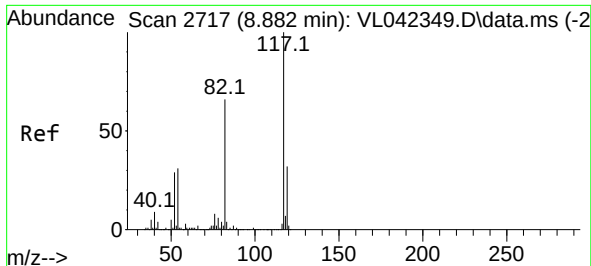
Tgt Ion: 91 Resp: 63791

Ion Ratio Lower Upper

91 100

92 60.3 48.2 72.4

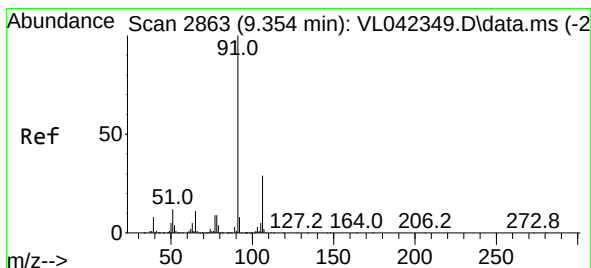
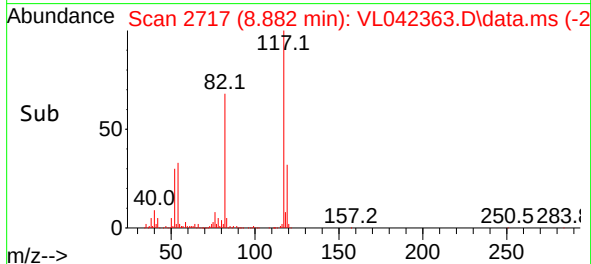
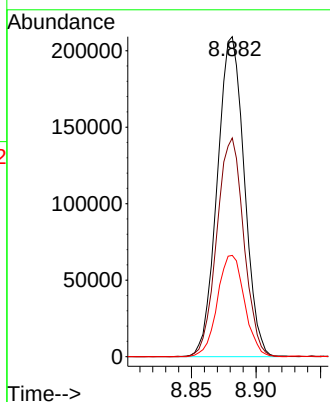
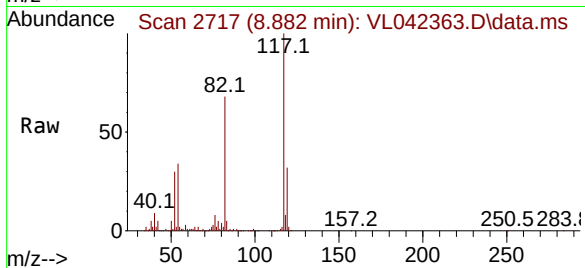




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

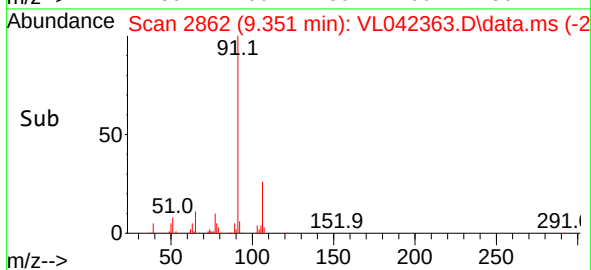
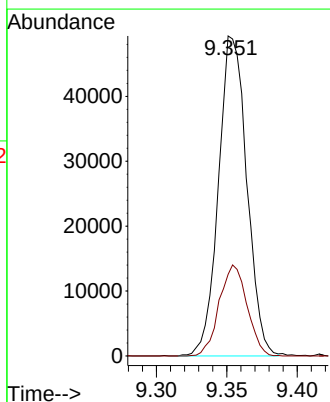
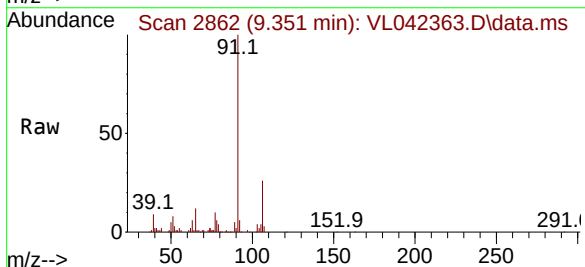
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

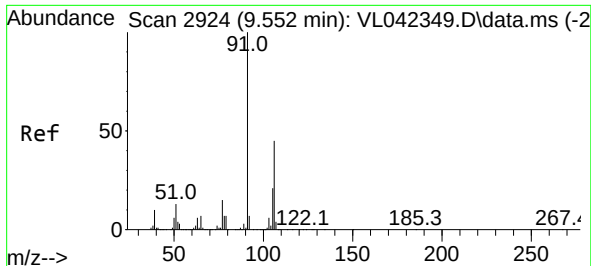
Tgt Ion:117 Resp: 304398
Ion Ratio Lower Upper
117 100
82 68.4 57.8 86.6
119 31.9 25.2 37.8



#58
Ethyl Benzene
Concen: 1.147 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.003 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion: 91 Resp: 69152
Ion Ratio Lower Upper
91 100
106 25.5 23.0 34.4





#59

m/p-Xylene

Concen: 7.695 ppbv

RT: 9.529 min Scan# 2917

Delta R.T. -0.023 min

Lab File: VL042363.D

Acq: 17 Apr 2025 18:24

Instrument :

MSVOA_L

ClientSampleId :

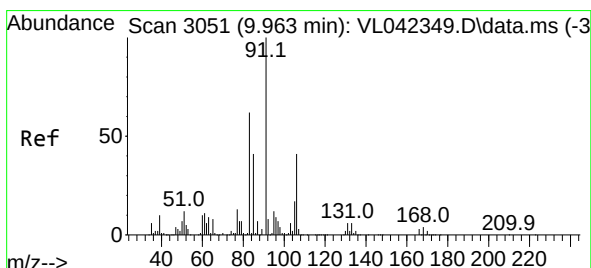
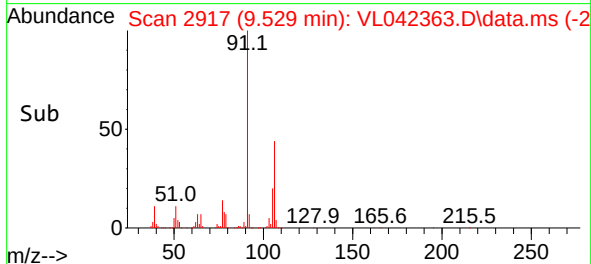
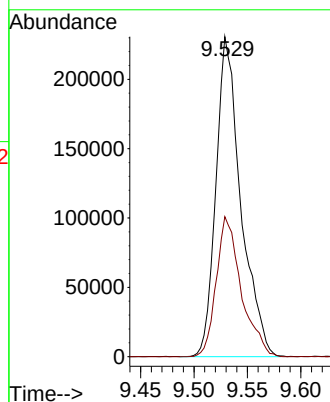
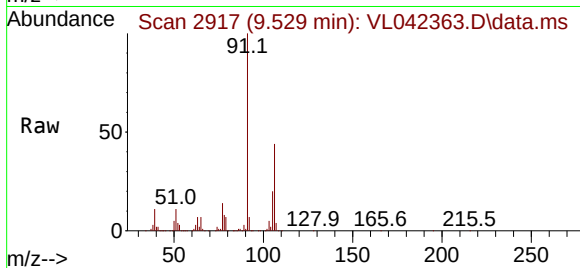
IA-B1-3-3252025

Tgt Ion: 91 Resp: 373837

Ion Ratio Lower Upper

91 100

106 44.0 35.4 53.2



#60

o-Xylene

Concen: 2.615 ppbv

RT: 9.966 min Scan# 3052

Delta R.T. 0.003 min

Lab File: VL042363.D

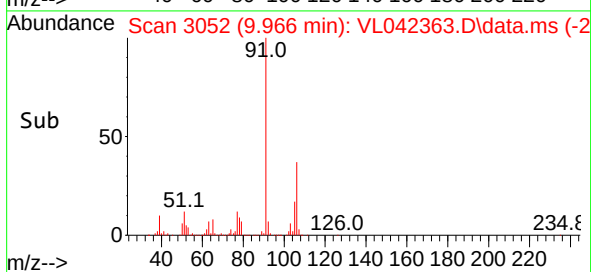
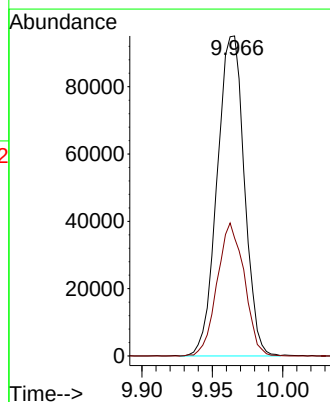
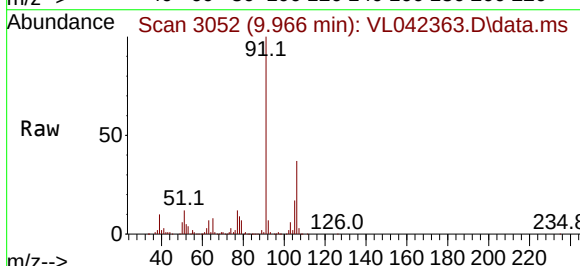
Acq: 17 Apr 2025 18:24

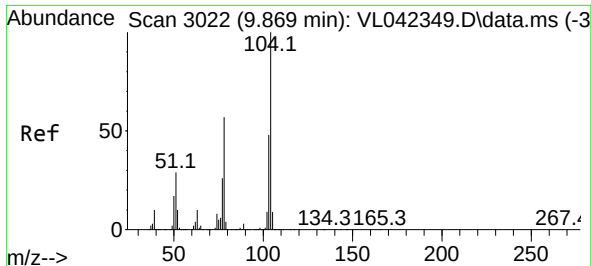
Tgt Ion: 91 Resp: 127919

Ion Ratio Lower Upper

91 100

106 41.4 21.1 63.4





#61

Styrene

Concen: 0.791 ppbv

RT: 9.869 min Scan# 3022

Delta R.T. -0.000 min

Lab File: VL042363.D

Acq: 17 Apr 2025 18:24

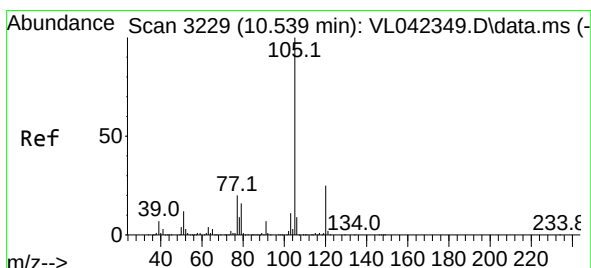
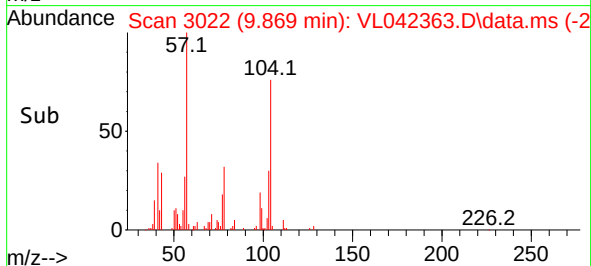
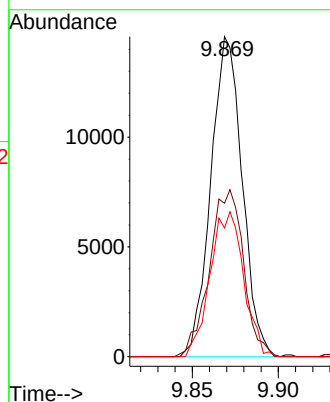
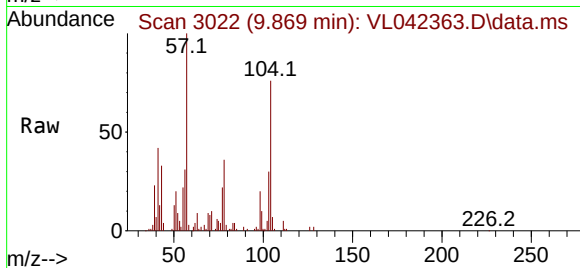
Instrument :

MSVOA_L

ClientSampleId :

IA-B1-3-3252025

Tgt Ion:104	Resp:	18463
Ion Ratio	Lower	Upper
104	100	
78	56.7	44.6 66.8
103	48.3	37.4 56.0



#62

Isopropylbenzene

Concen: 0.163 ppbv

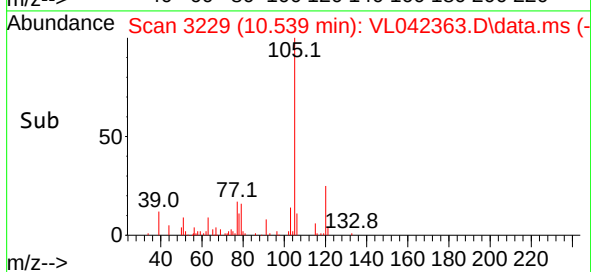
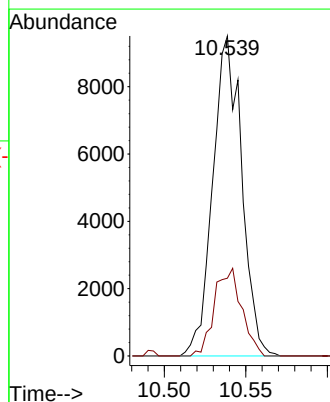
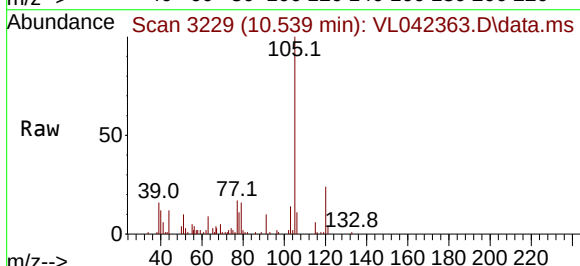
RT: 10.539 min Scan# 3229

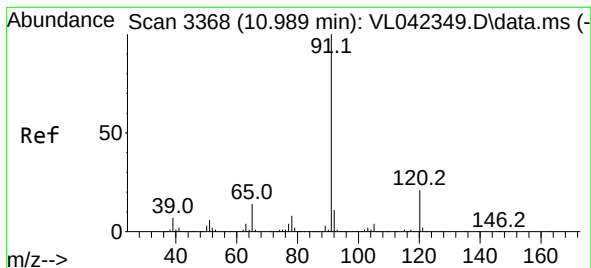
Delta R.T. -0.000 min

Lab File: VL042363.D

Acq: 17 Apr 2025 18:24

Tgt Ion:105	Resp:	11682
Ion Ratio	Lower	Upper
105	100	
120	25.8	19.8 29.8





#64

n-propylbenzene

Concen: 0.283 ppbv

RT: 10.992 min Scan# 31

Delta R.T. 0.003 min

Lab File: VL042363.D

Acq: 17 Apr 2025 18:24

Instrument :

MSVOA_L

ClientSampleId :

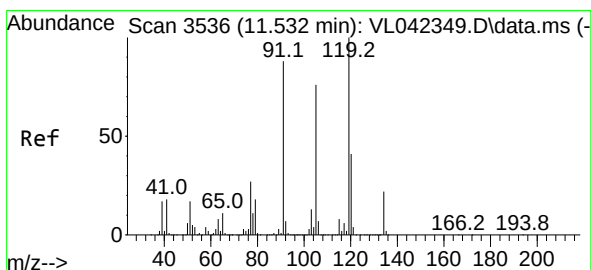
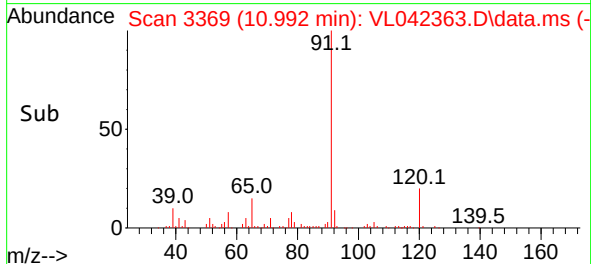
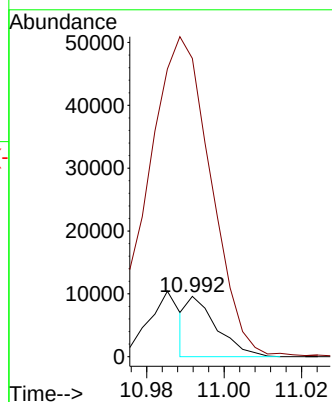
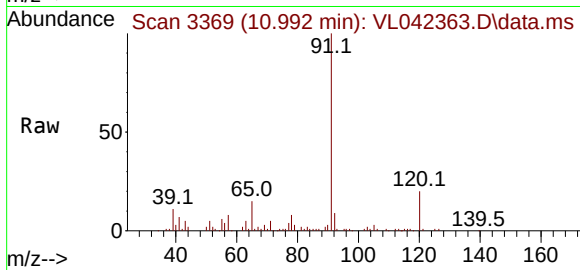
IA-B1-3-3252025

Tgt Ion:120 Resp: 5104

Ion Ratio Lower Upper

120 100

91 1138.7 392.4 588.6#



#65

tert-Butylbenzene

Concen: 0.536 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. 0.003 min

Lab File: VL042363.D

Acq: 17 Apr 2025 18:24

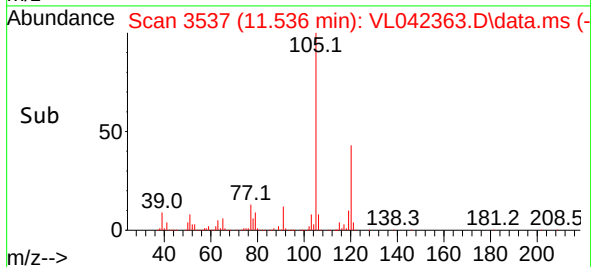
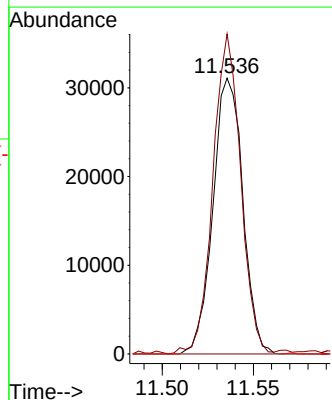
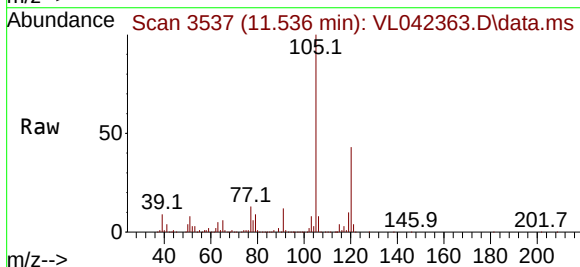
Tgt Ion:119 Resp: 35413

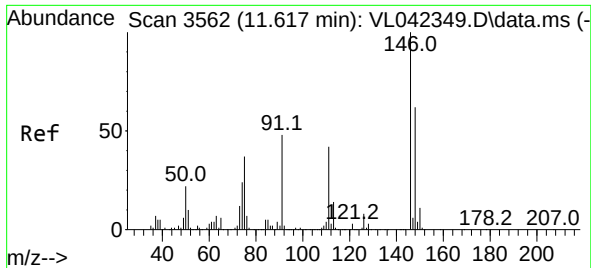
Ion Ratio Lower Upper

119 100

91 110.1 74.6 111.8

134 0.0 18.8 28.2#

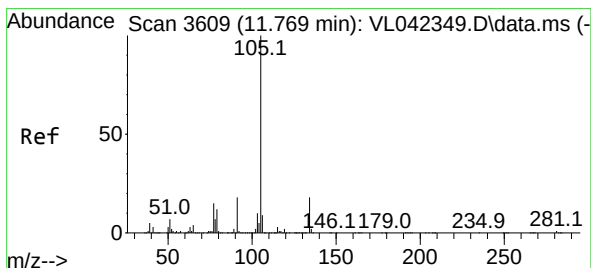
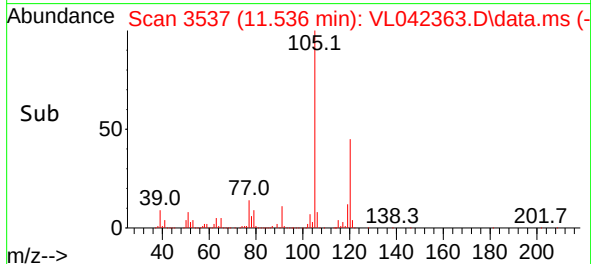
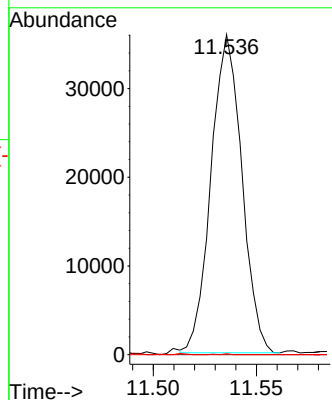
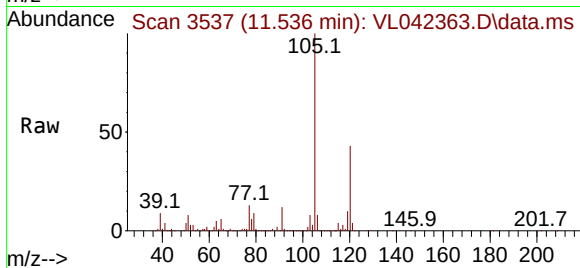




#66
Benzyl Chloride
Concen: 5.131 ppbv
RT: 11.536 min Scan# 31
Delta R.T. -0.081 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

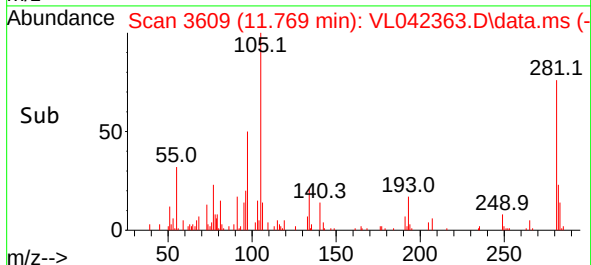
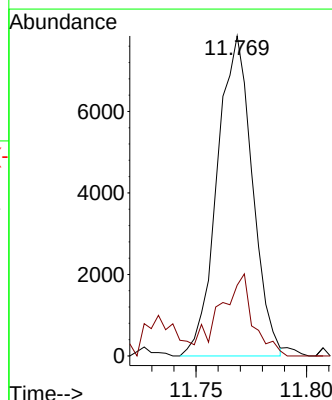
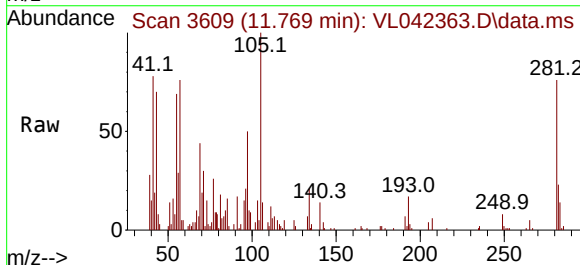
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

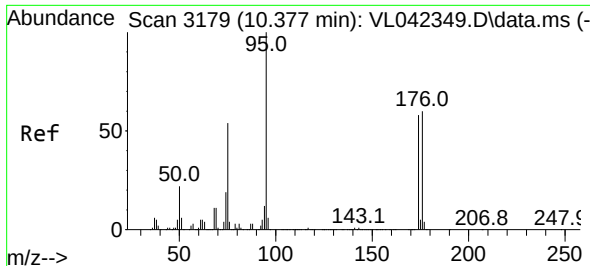
Tgt Ion: 91 Resp: 37225
Ion Ratio Lower Upper
91 100
126 0.0 11.8 17.6#
128 0.2 4.5 6.7#



#67
sec-Butylbenzene
Concen: 0.095 ppbv
RT: 11.769 min Scan# 3609
Delta R.T. -0.000 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion: 105 Resp: 8682
Ion Ratio Lower Upper
105 100
134 21.6 14.6 21.8

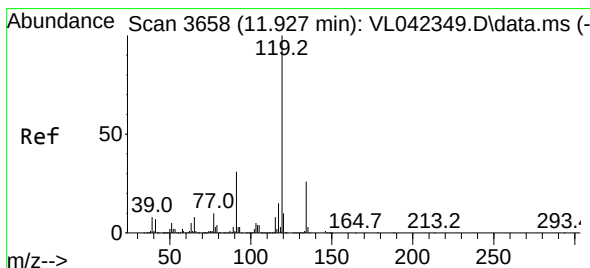
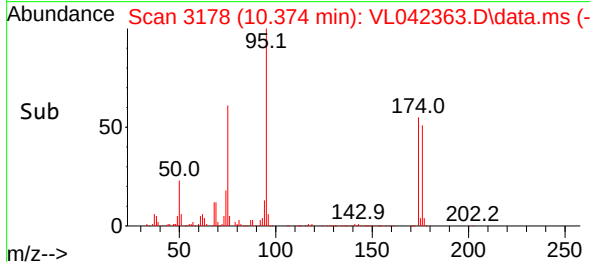
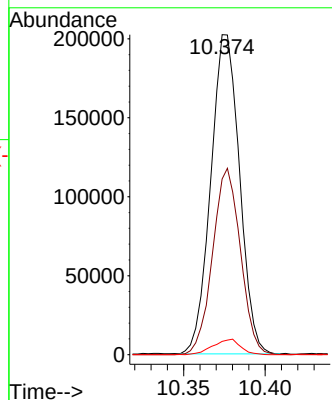
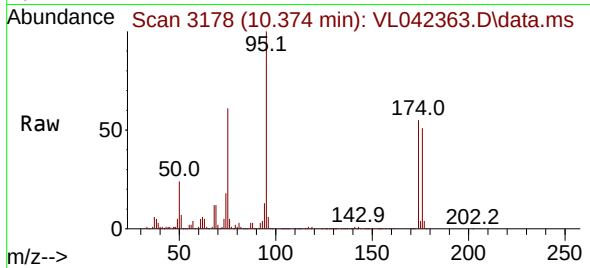




#68
1-Bromo-4-Fluorobenzene
Concen: 9.920 ppbv
RT: 10.374 min Scan# 3179
Delta R.T. -0.003 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

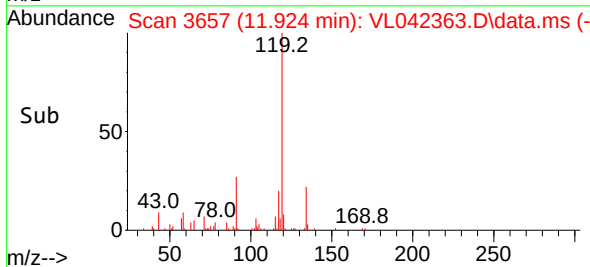
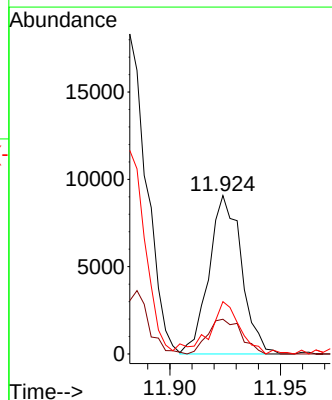
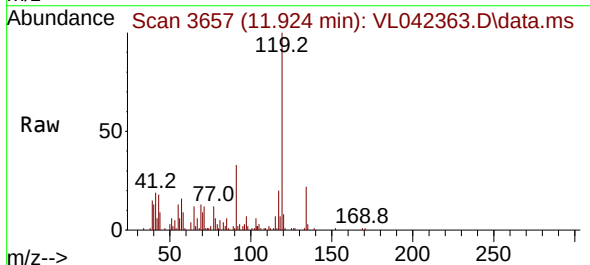
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

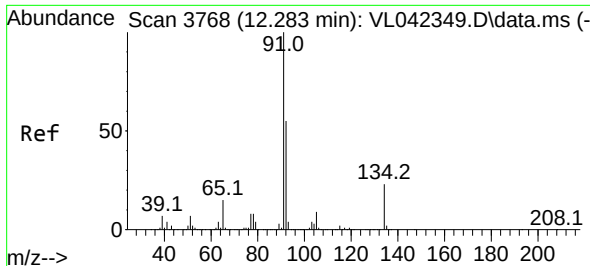
Tgt Ion: 95 Resp: 248134
Ion Ratio Lower Upper
95 100
174 56.5 48.5 72.7
175 4.6 3.7 5.5



#69
p-Isopropyltoluene
Concen: 0.116 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. -0.003 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion: 119 Resp: 9270
Ion Ratio Lower Upper
119 100
134 22.6 20.0 30.0
91 31.0 24.4 36.6

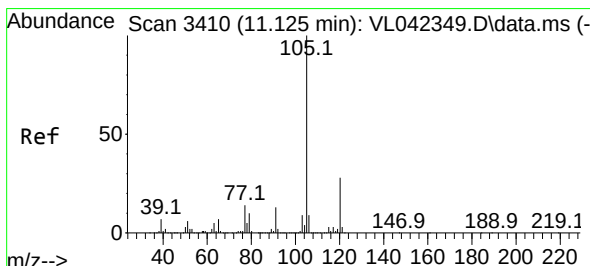
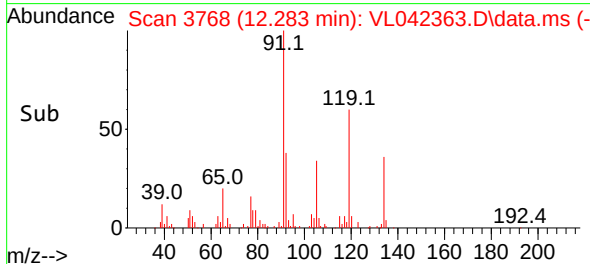
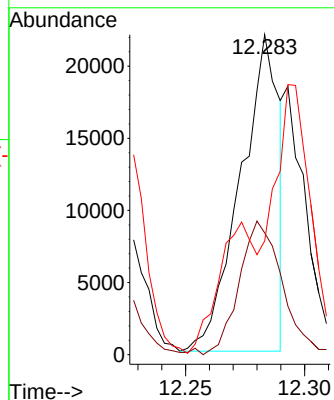
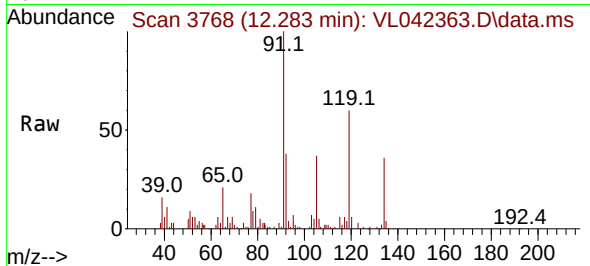




#70
n-Butylbenzene
Concen: 0.297 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. -0.000 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

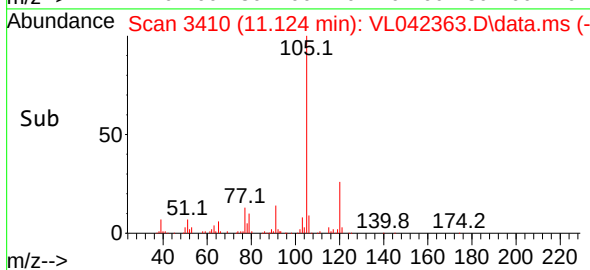
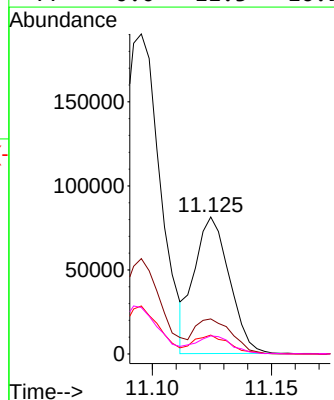
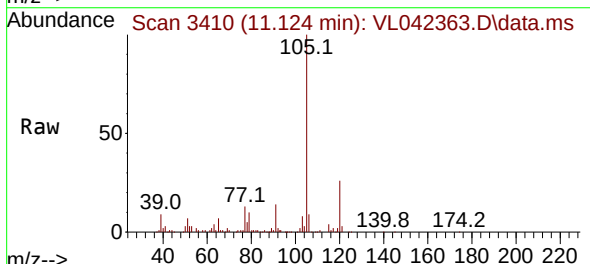
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

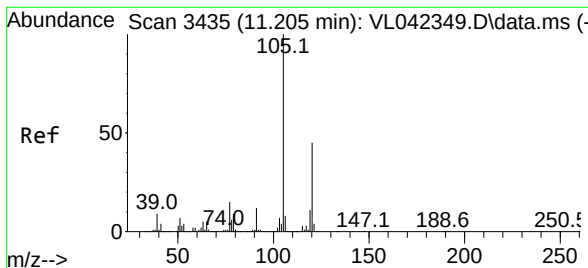
Tgt Ion: 91 Resp: 24716
Ion Ratio Lower Upper
91 100
92 48.6 44.2 66.4
134 0.0 18.2 27.4#



#72
4-Ethyltoluene
Concen: 1.390 ppbv
RT: 11.124 min Scan# 3410
Delta R.T. -0.000 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion: 105 Resp: 83127
Ion Ratio Lower Upper
105 100
120 0.0 23.2 34.8#
91 0.0 10.4 15.6#
77 0.0 11.3 16.9#





#73

1,3,5-Trimethylbenzene

Concen: 1.724 ppbv

RT: 11.202 min Scan# 34

Delta R.T. -0.003 min

Lab File: VL042363.D

Acq: 17 Apr 2025 18:24

Instrument :

MSVOA_L

ClientSampleId :

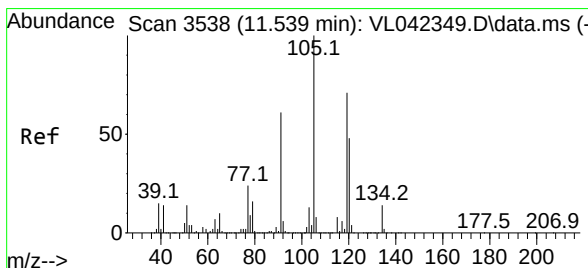
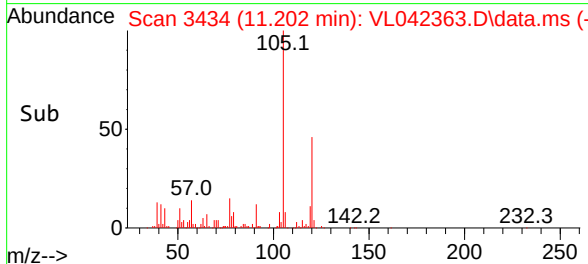
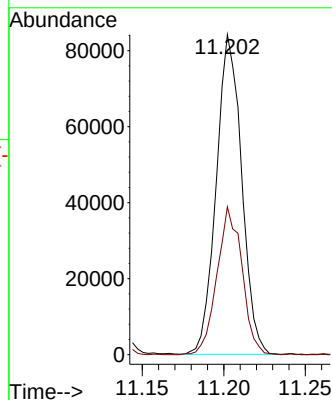
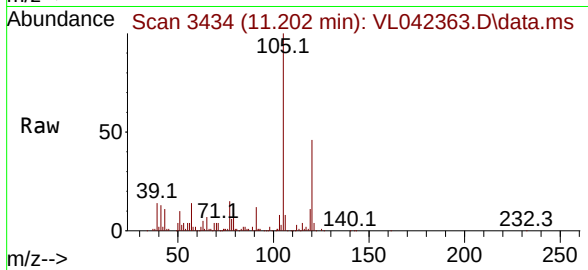
IA-B1-3-3252025

Tgt Ion:105 Resp: 91013

Ion Ratio Lower Upper

105 100

120 46.2 35.6 53.4



#74

1,2,4-Trimethylbenzene

Concen: 5.205 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. -0.003 min

Lab File: VL042363.D

Acq: 17 Apr 2025 18:24

Tgt Ion:105 Resp: 321031

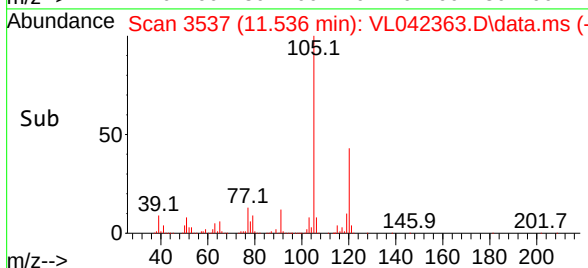
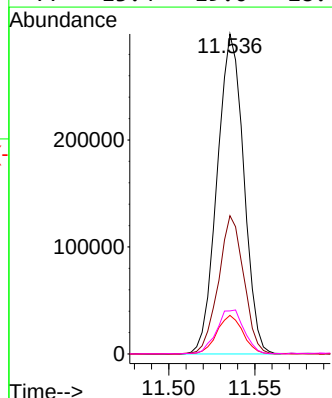
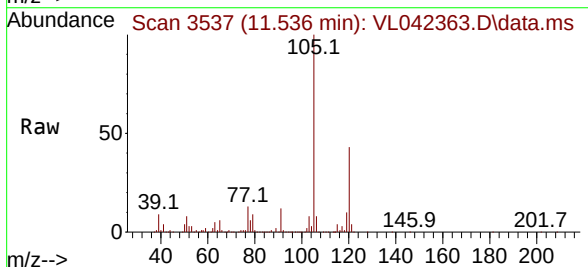
Ion Ratio Lower Upper

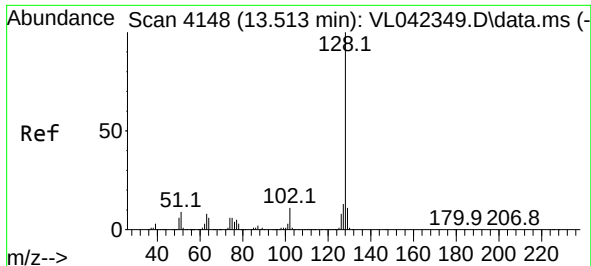
105 100

120 43.2 38.1 57.1

91 12.0 48.8 73.2#

77 13.4 19.0 28.4#

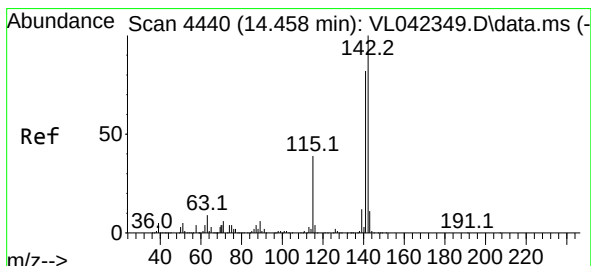
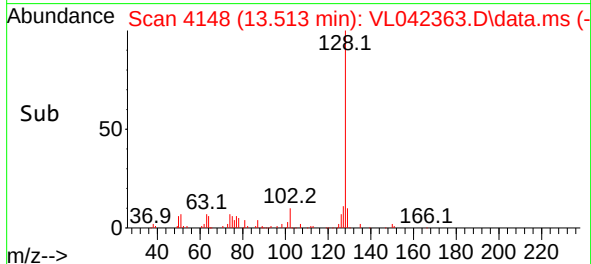
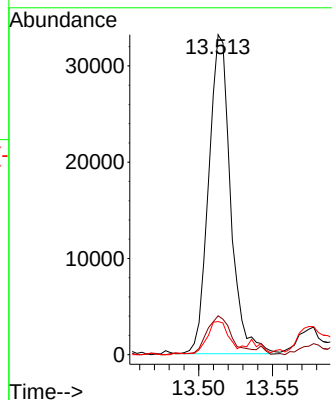
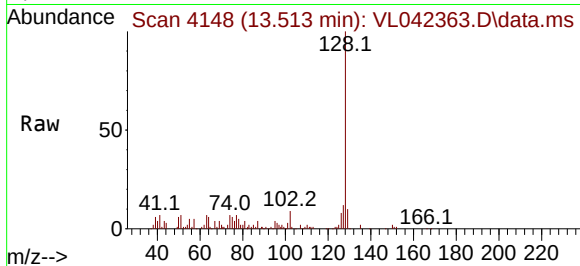




#79
Naphthalene
Concen: 0.465 ppbv
RT: 13.513 min Scan# 4148
Delta R.T. -0.000 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

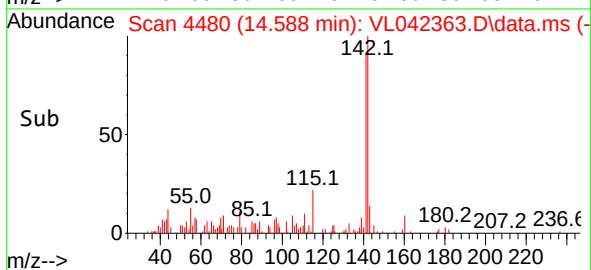
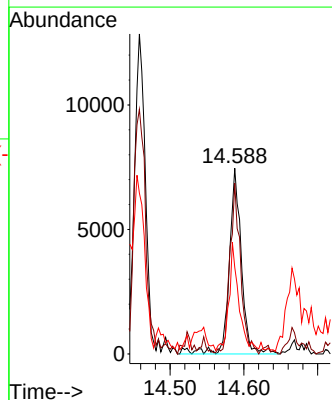
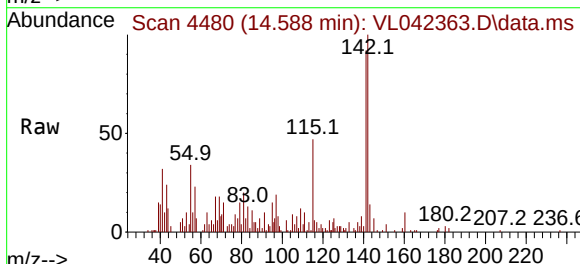
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025

Tgt Ion:128	Resp:	34268
Ion Ratio	Lower	Upper
128	100	
127	11.8	10.6 15.8
129	10.0	8.6 12.8



#80
Naphthalene,2-methyl-
Concen: 0.204 ppbv
RT: 14.588 min Scan# 4480
Delta R.T. 0.129 min
Lab File: VL042363.D
Acq: 17 Apr 2025 18:24

Tgt Ion:142	Resp:	8582
Ion Ratio	Lower	Upper
142	100	
141	83.7	66.8 100.2
115	46.7	33.4 50.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042364.D
 Acq On : 17 Apr 2025 18:58
 Operator : SY/MD
 Sample : Q1668-04
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B1-1-3252025

Quant Time: Apr 18 02:41:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 02:14:00 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.791	49	117691	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	343133	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	303219	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	247615	9.938	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.400%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	10068	0.484	ppbv	96
3) Chlorodifluoromethane	1.561	51	1577	0.080	ppbv	98
4) Chloromethane	1.535	50	5532	0.672	ppbv	95
6) Bromomethane	1.674	94	247	0.064	ppbv #	14
7) Chloroethane	1.706	64	318	0.098	ppbv #	51
8) Dichlorotetrafluoroethane	1.557	85	600	0.034	ppbv #	80
9) Propene	1.561	41	29021	3.218	ppbv	92
10) Heptane	4.988	43	48989	1.934	ppbv	95
11) Trichlorofluoromethane	1.881	101	4688	0.237	ppbv	90
12) 1,1,2-Trichlorotrifluo...	2.143	101	1147	0.071	ppbv #	81
13) Ethanol	1.722	45	257475	179.643	ppbv	74
15) Acetone	1.839	43	140628	7.299	ppbv	90
16) 1,3-Butadiene	1.603	39	5791	0.628	ppbv #	35
17) tert-Butyl alcohol	2.046	59	8687	0.364	ppbv #	56
19) Isopropyl Alcohol	1.891	45	33526	3.132	ppbv #	17
20) Methylene Chloride	2.066	84	39273	5.205	ppbv	93
21) Allyl Chloride	2.078	41	1879	0.141	ppbv #	28
23) Vinyl Acetate	2.477	43	61483	7.884	ppbv #	46
25) Ethyl Acetate	2.829	43	66917	1.409	ppbv #	79
26) Hexane	2.829	57	92595	4.817	ppbv #	33
27) Carbon Disulfide	2.153	76	4485	0.218	ppbv #	1
29) Chloroform	2.855	83	2558	0.094	ppbv	98
30) Cyclohexane	3.865	84	28679	1.845	ppbv	97
34) 2-Butanone	2.564	43	22380	0.825	ppbv	99
36) Benzene	3.664	78	28409	0.768	ppbv	94
39) 1,2-Dichloropropane	3.965	63	93381	6.771	ppbv #	22
41) Tetrahydrofuran	3.075	42	1027	0.065	ppbv #	81
44) 2,2,4-Trimethylpentane	4.648	57	22397	0.350	ppbv #	72
50) 4-Methyl-2-Pentanone	5.758	43	441281	9.785	ppbv	99
51) 2-Hexanone	7.432	43	3177	0.079	ppbv #	27
53) Toluene	6.940	91	121585	2.738	ppbv	100
58) Ethyl Benzene	9.358	91	156392	2.603	ppbv	98
59) m/p-Xylene	9.536	91	706391	14.596	ppbv	100
60) o-Xylene	9.969	91	301328	6.183	ppbv	100
61) Styrene	9.872	104	14156	0.609	ppbv	93
62) Isopropylbenzene	10.542	105	25514	0.357	ppbv	97
64) n-propylbenzene	10.992	120	27632	1.536	ppbv	98
65) tert-Butylbenzene	11.539	119	73146	1.112	ppbv #	68
66) Benzyl Chloride	11.539	91	88151	12.198	ppbv #	70
67) sec-Butylbenzene	11.772	105	18674	0.204	ppbv	94
69) p-Isopropyltoluene	11.931	119	13409	0.169	ppbv	99
70) n-Butylbenzene	12.287	91	44840	0.542	ppbv #	86
71) 2-Chlorotoluene	10.866	91	2208	0.039	ppbv	78

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042364.D
Acq On : 17 Apr 2025 18:58
Operator : SY/MD
Sample : Q1668-04
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

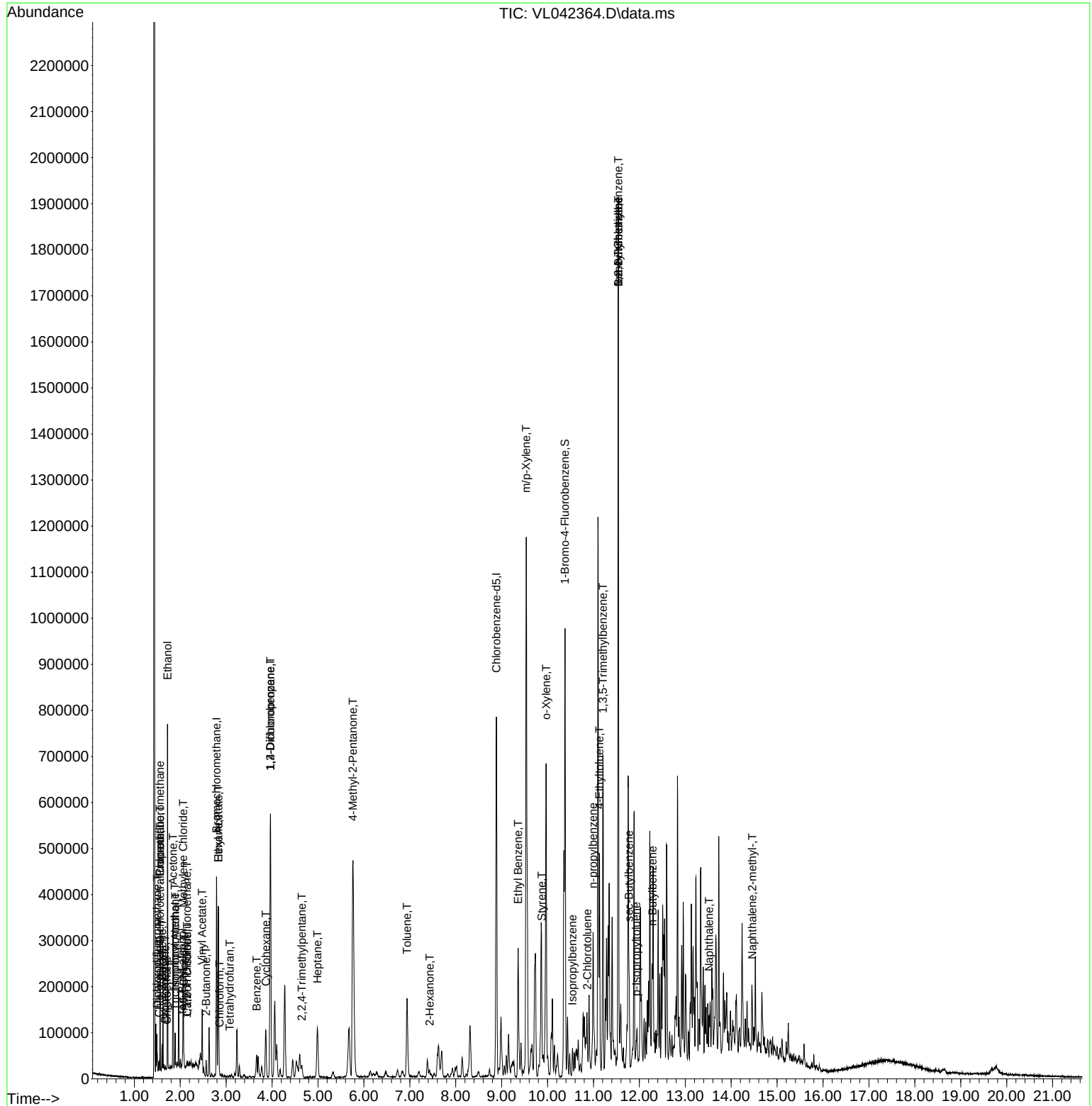
Quant Time: Apr 18 02:41:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

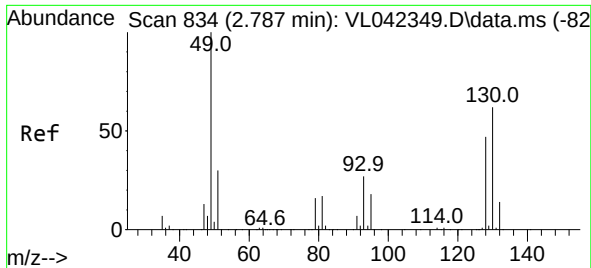
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
72) 4-Ethyltoluene	11.128	105	191371	3.212	ppbv #	56
73) 1,3,5-Trimethylbenzene	11.209	105	207820	3.951	ppbv	98
74) 1,2,4-Trimethylbenzene	11.539	105	701287	11.415	ppbv #	64
79) Naphthalene	13.517	128	36056	0.491	ppbv	97
80) Naphthalene,2-methyl-	14.462	142	14016	0.335	ppbv #	58

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

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

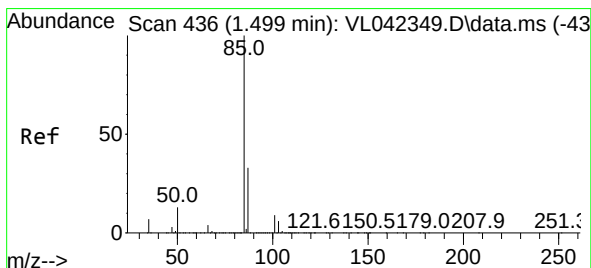
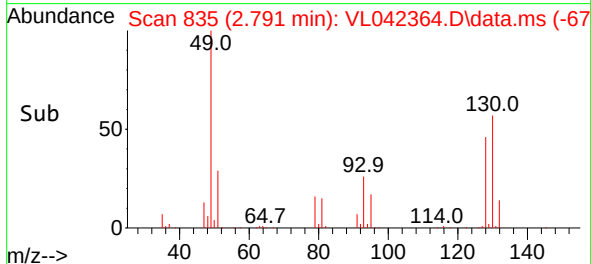
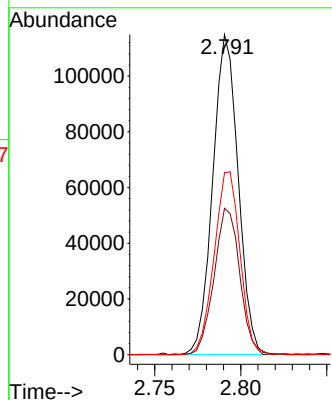
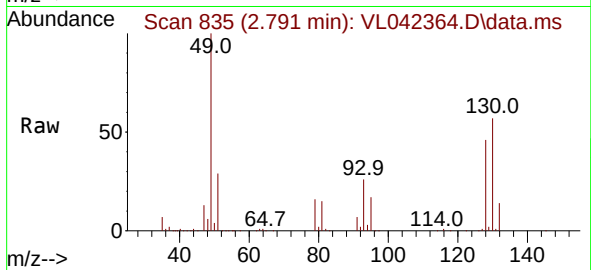




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.791 min Scan# 81
 Delta R.T. 0.004 min
 Lab File: VL042364.D
 Acq: 17 Apr 2025 18:58

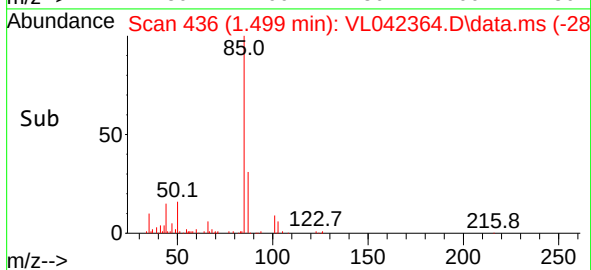
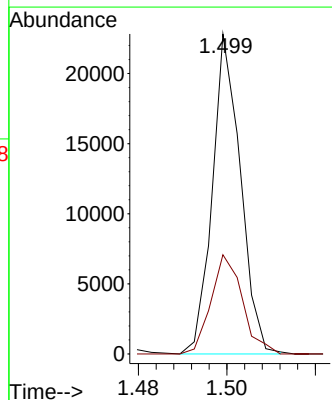
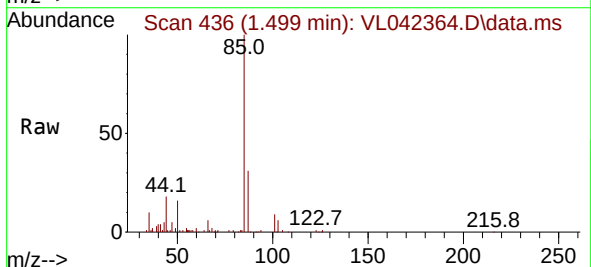
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B1-1-3252025

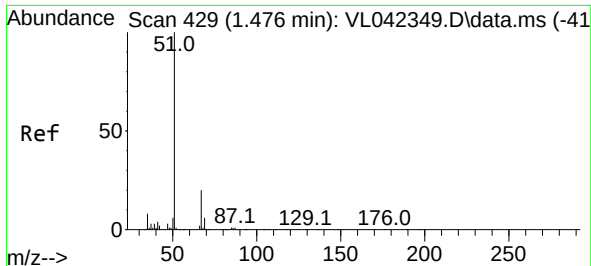
Tgt Ion: 49 Resp: 117691
 Ion Ratio Lower Upper
 49 100
 128 46.1 22.8 68.4
 130 58.4 29.3 88.0



#2
 Dichlorodifluoromethane
 Concen: 0.484 ppbv
 RT: 1.499 min Scan# 436
 Delta R.T. 0.000 min
 Lab File: VL042364.D
 Acq: 17 Apr 2025 18:58

Tgt Ion: 85 Resp: 10068
 Ion Ratio Lower Upper
 85 100
 87 31.0 26.6 39.8

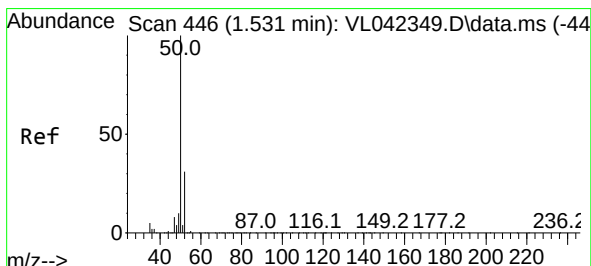
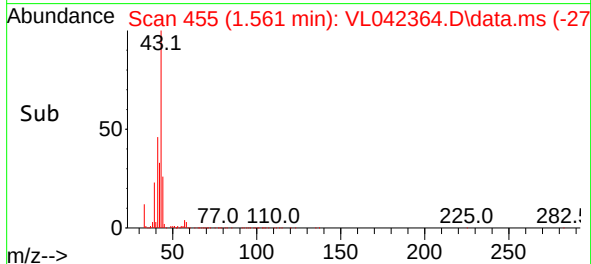
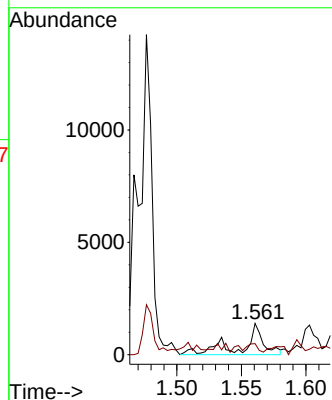
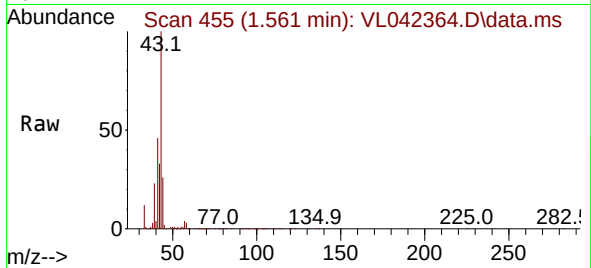




#3
Chlorodifluoromethane
Concen: 0.080 ppbv
RT: 1.561 min Scan# 41
Delta R.T. 0.084 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

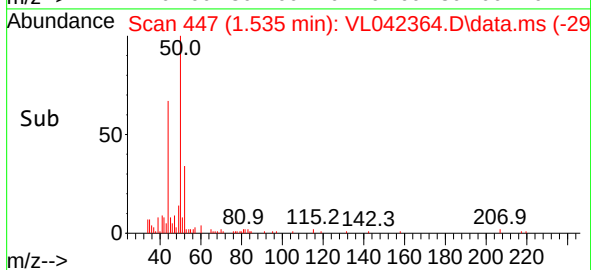
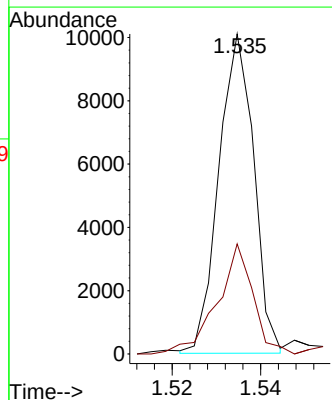
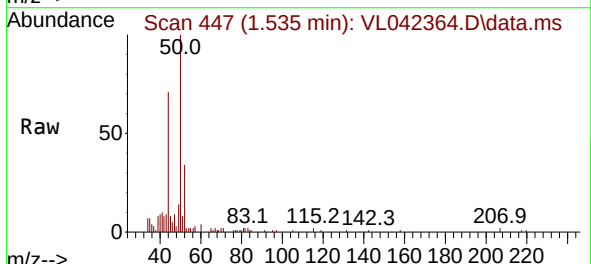
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

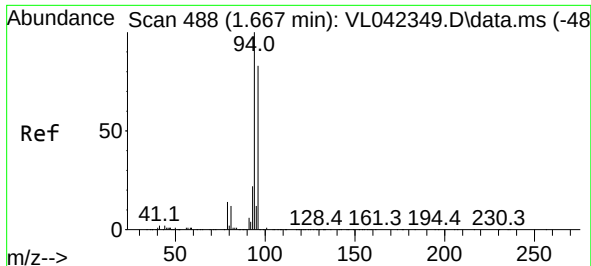
Tgt Ion: 51 Resp: 1577
Ion Ratio Lower Upper
51 100
67 21.2 16.2 24.4



#4
Chloromethane
Concen: 0.672 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.004 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion: 50 Resp: 5532
Ion Ratio Lower Upper
50 100
52 33.4 24.7 37.1

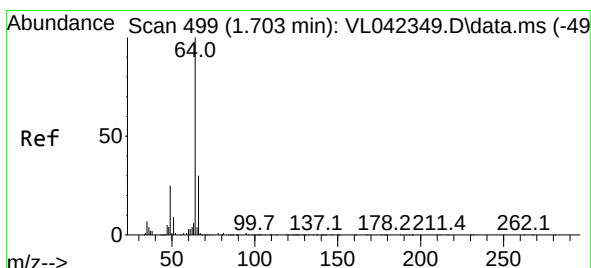
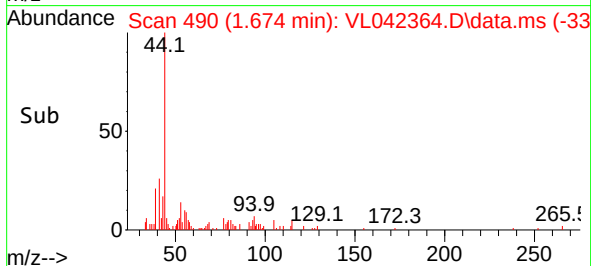
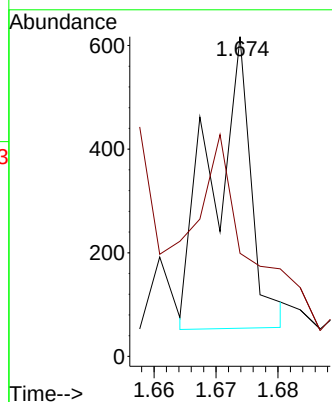
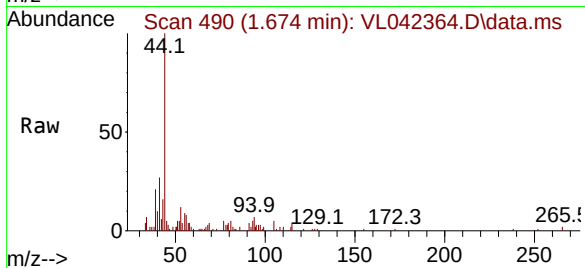




#6
Bromomethane
Concen: 0.064 ppbv
RT: 1.674 min Scan# 491
Delta R.T. 0.007 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

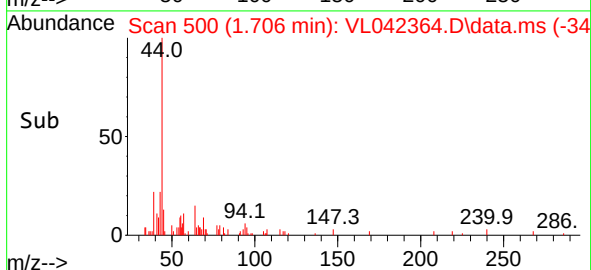
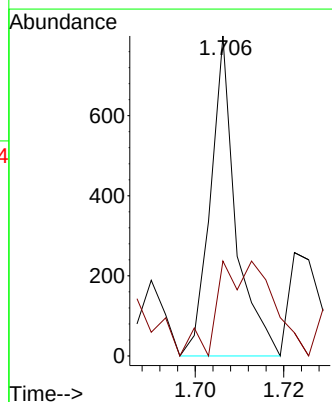
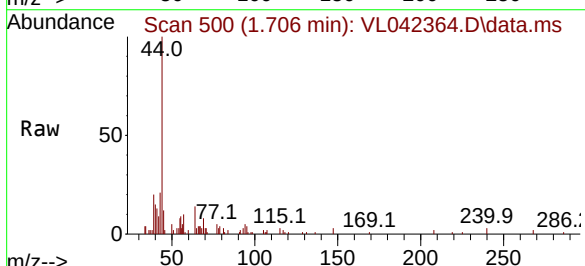
Instrument :
MSVOA_1
ClientSampleId :
IA-B1-1-3252025

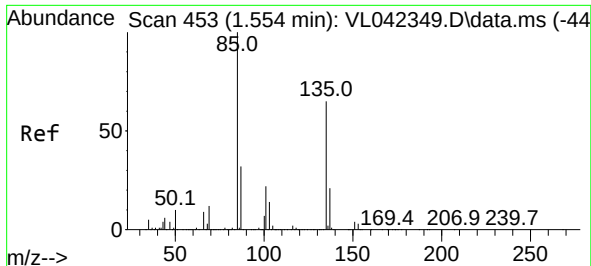
Tgt Ion: 94 Resp: 247
Ion Ratio Lower Upper
94 100
96 5.5 66.2 99.2#



#7
Chloroethane
Concen: 0.098 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.004 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion: 64 Resp: 318
Ion Ratio Lower Upper
64 100
66 57.6 24.6 37.0#

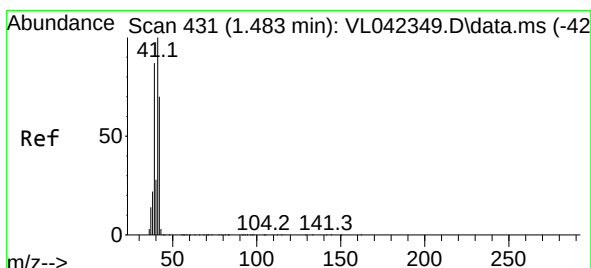
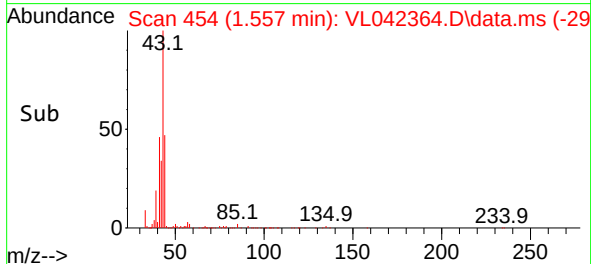
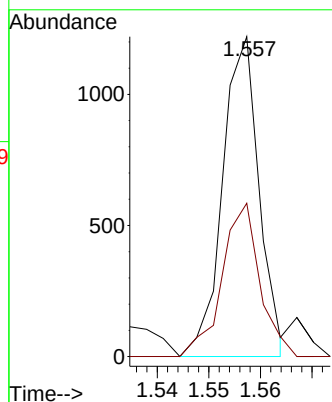
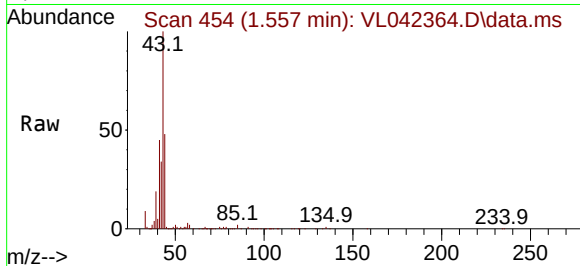




#8
Dichlorotetrafluoroethane
Concen: 0.034 ppbv
RT: 1.557 min Scan# 41
Delta R.T. 0.004 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

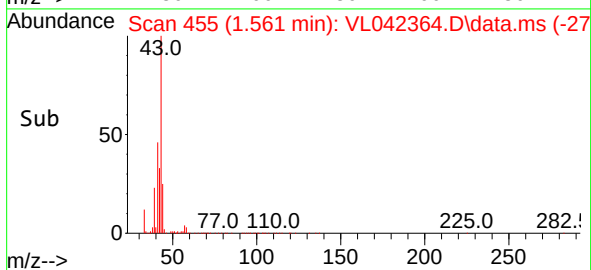
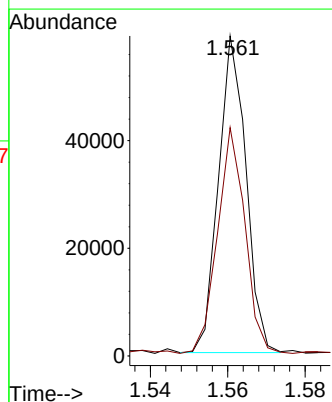
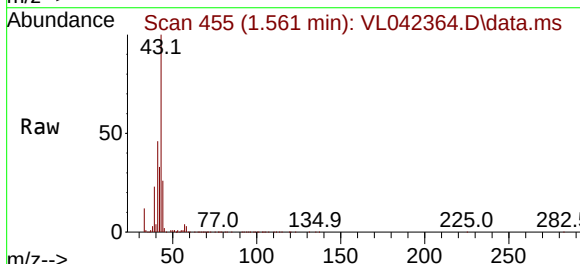
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

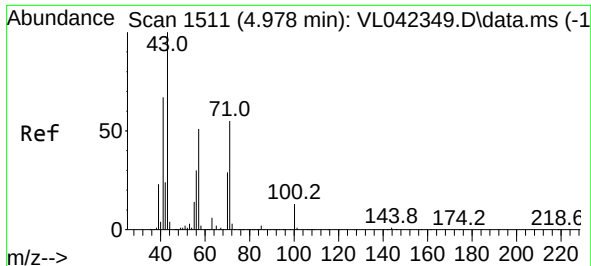
Tgt Ion: 85 Resp: 600
Ion Ratio Lower Upper
85 100
135 49.7 52.2 78.2#



#9
Propene
Concen: 3.218 ppbv
RT: 1.561 min Scan# 455
Delta R.T. 0.078 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion: 41 Resp: 29021
Ion Ratio Lower Upper
41 100
42 77.0 56.2 84.4

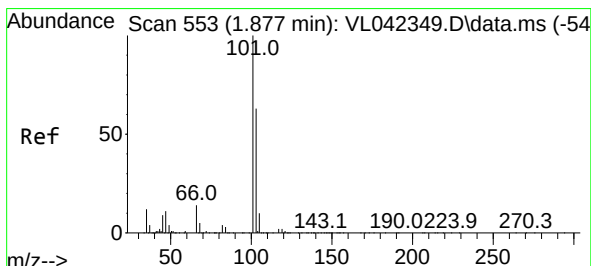
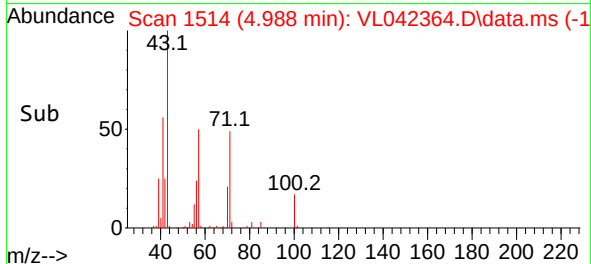
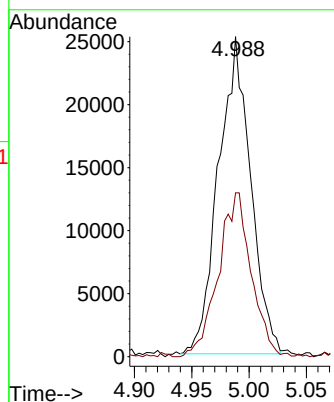
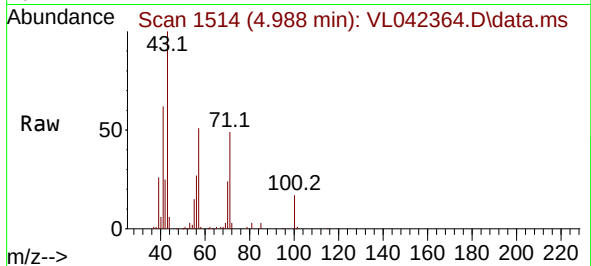




#10
 Heptane
 Concen: 1.934 ppbv
 RT: 4.988 min Scan# 1514
 Delta R.T. 0.010 min
 Lab File: VL042364.D
 Acq: 17 Apr 2025 18:58

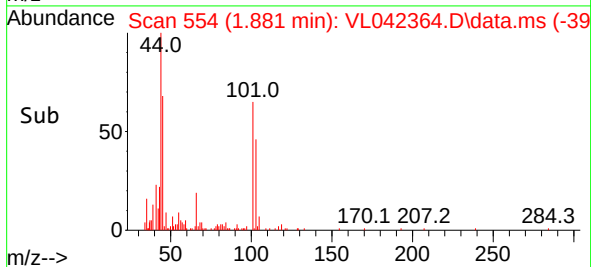
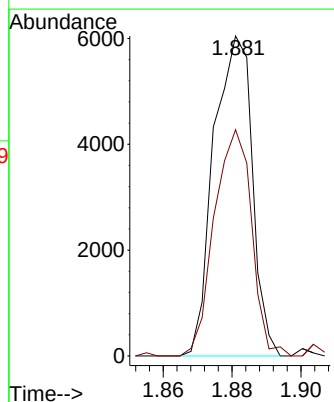
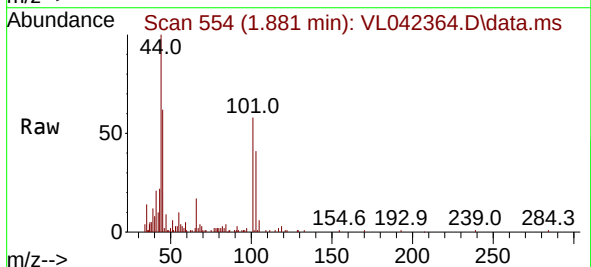
Instrument :
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 ClientSampleId :
 IA-B1-1-3252025

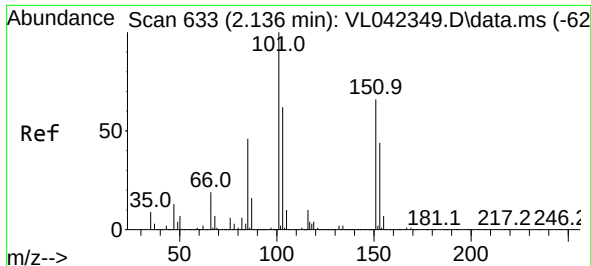
Tgt Ion: 43 Resp: 48989
 Ion Ratio Lower Upper
 43 100
 57 53.3 39.9 59.9



#11
 Trichlorofluoromethane
 Concen: 0.237 ppbv
 RT: 1.881 min Scan# 554
 Delta R.T. 0.004 min
 Lab File: VL042364.D
 Acq: 17 Apr 2025 18:58

Tgt Ion:101 Resp: 4688
 Ion Ratio Lower Upper
 101 100
 103 70.7 50.1 75.1

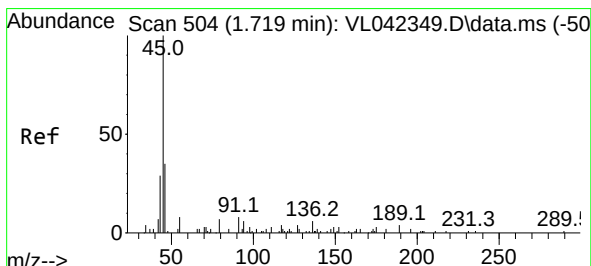
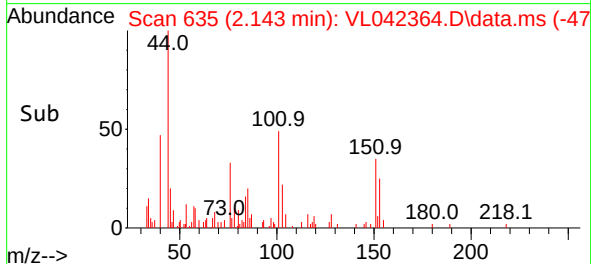
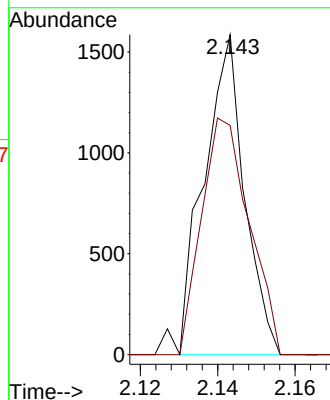
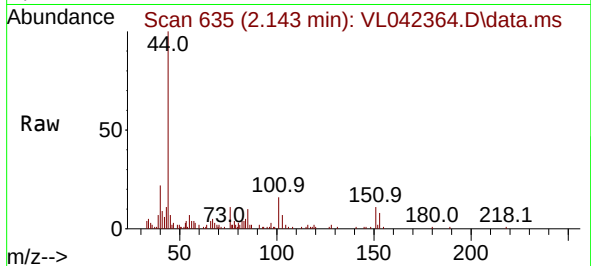




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.071 ppbv
RT: 2.143 min Scan# 611
Delta R.T. 0.007 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

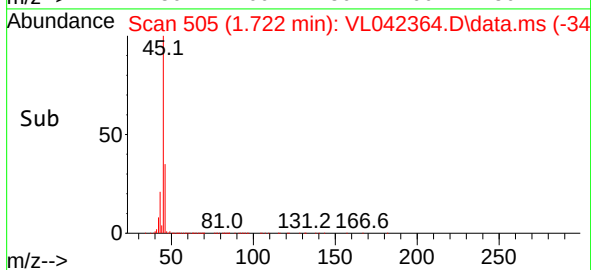
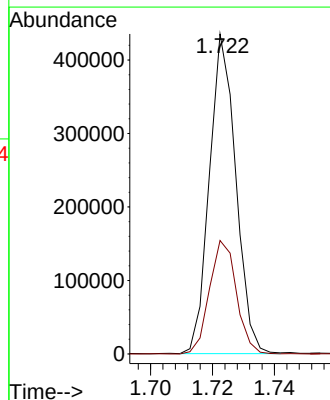
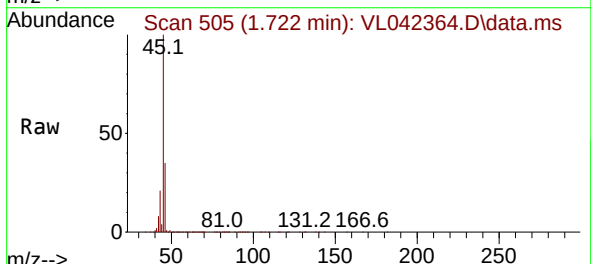
Instrument :
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ClientSampleId :
IA-B1-1-3252025

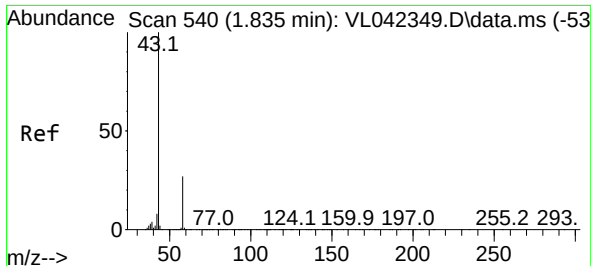
Tgt Ion:101 Resp: 1147
Ion Ratio Lower Upper
101 100
151 87.3 57.0 85.6#



#13
Ethanol
Concen: 179.643 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.004 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion: 45 Resp: 257475
Ion Ratio Lower Upper
45 100
46 36.4 21.9 87.7

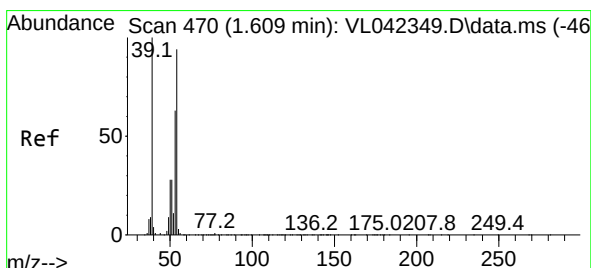
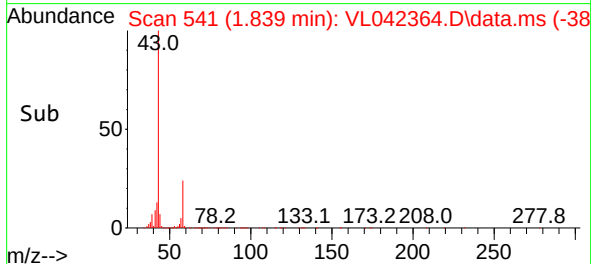
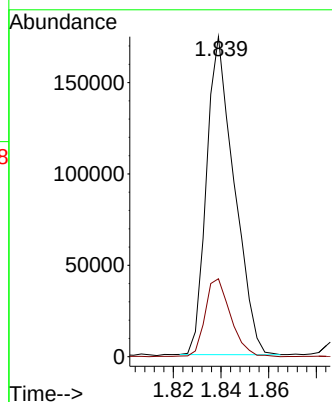
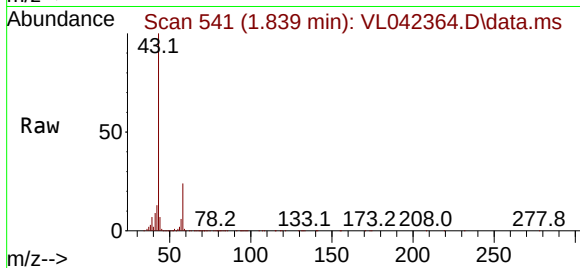




#15
Acetone
Concen: 7.299 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.004 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

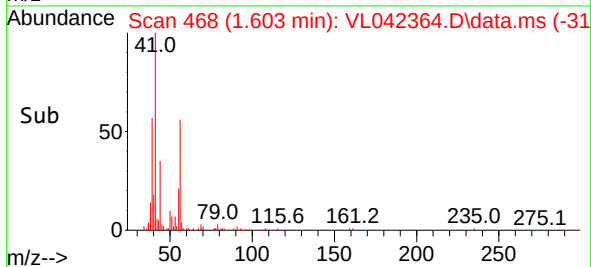
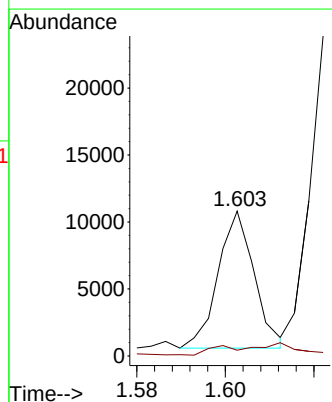
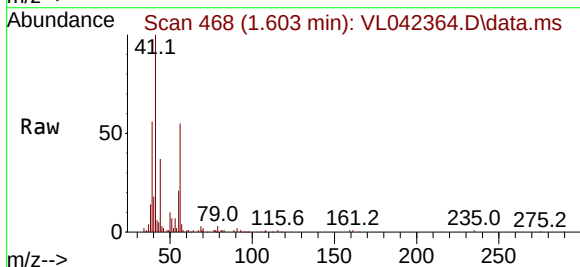
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ClientSampleId :
IA-B1-1-3252025

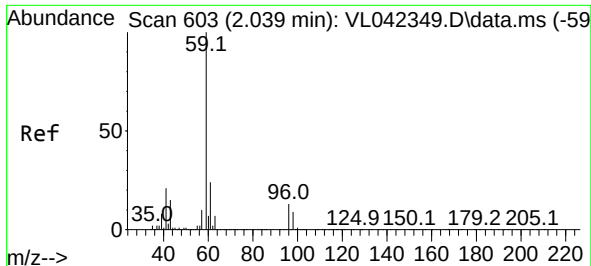
Tgt Ion: 43 Resp: 140628
Ion Ratio Lower Upper
43 100
58 22.9 22.4 33.6



#16
1,3-Butadiene
Concen: 0.628 ppbv
RT: 1.603 min Scan# 468
Delta R.T. -0.006 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion: 39 Resp: 5791
Ion Ratio Lower Upper
39 100
54 23.4 64.9 97.3#





#17

tert-Butyl alcohol

Concen: 0.364 ppbv

RT: 2.046 min Scan# 603

Delta R.T. 0.007 min

Lab File: VL042364.D

Acq: 17 Apr 2025 18:58

Instrument :

MSVOA_1

ClientSampleId :

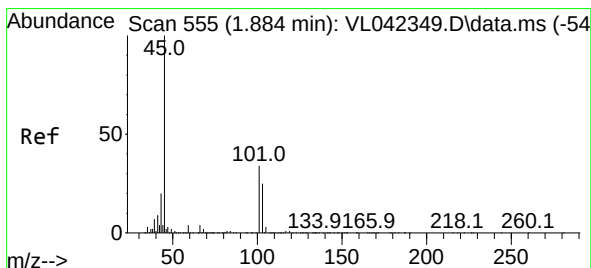
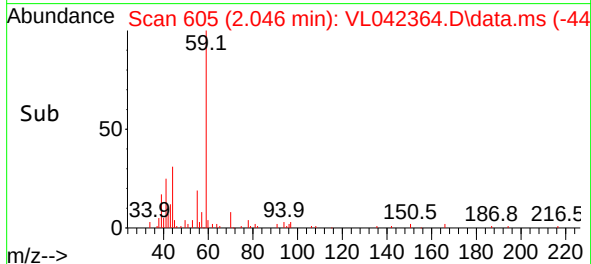
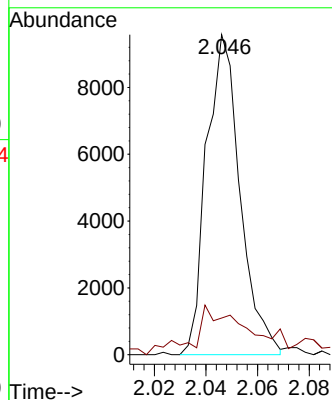
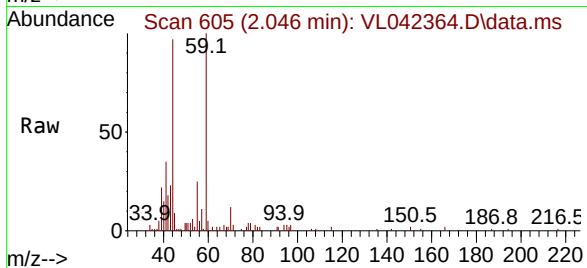
IA-B1-1-3252025

Tgt Ion: 59 Resp: 8687

Ion Ratio Lower Upper

59 100

57 27.5 8.7 13.1#



#19

Isopropyl Alcohol

Concen: 3.132 ppbv

RT: 1.891 min Scan# 557

Delta R.T. 0.007 min

Lab File: VL042364.D

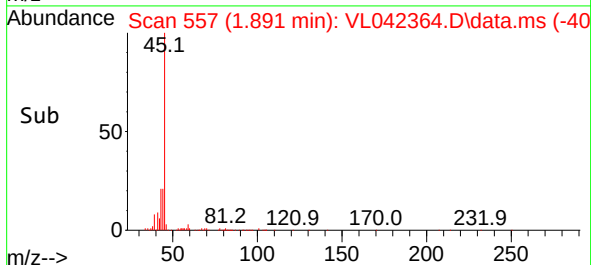
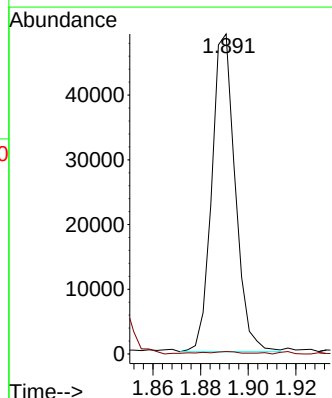
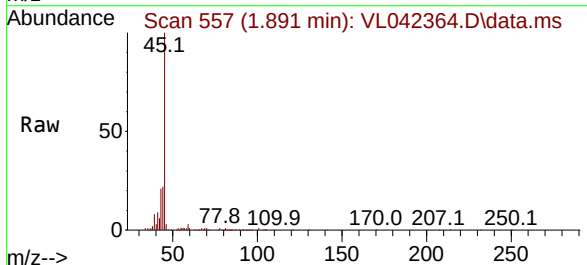
Acq: 17 Apr 2025 18:58

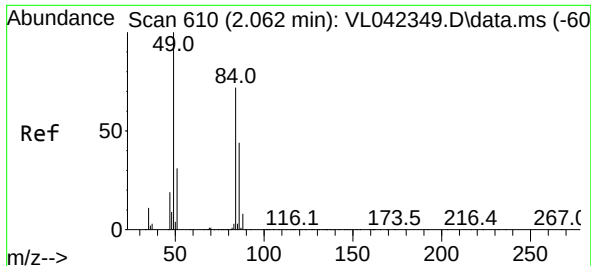
Tgt Ion: 45 Resp: 33526

Ion Ratio Lower Upper

45 100

58 96.1 34.5 51.7#

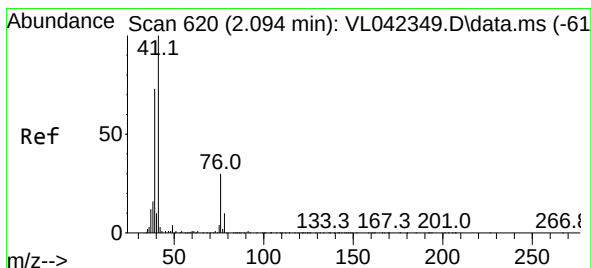
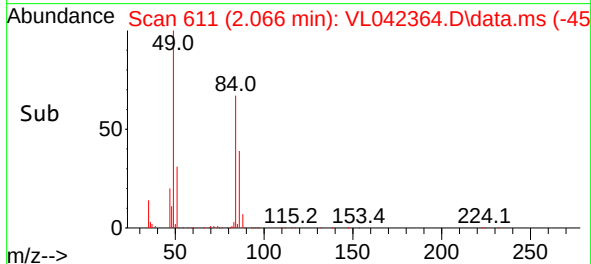
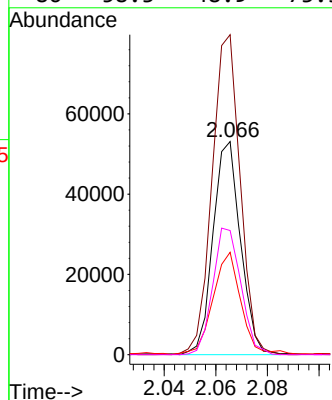
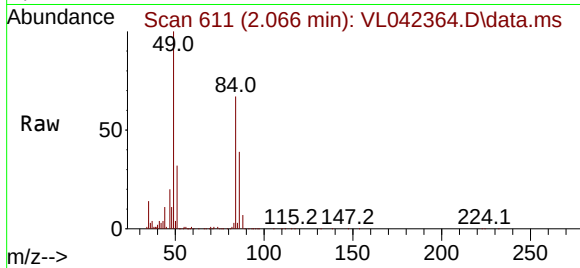




#20
Methylene Chloride
Concen: 5.205 ppbv
RT: 2.066 min Scan# 610
Delta R.T. 0.004 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

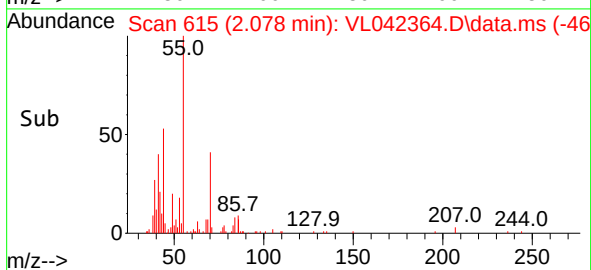
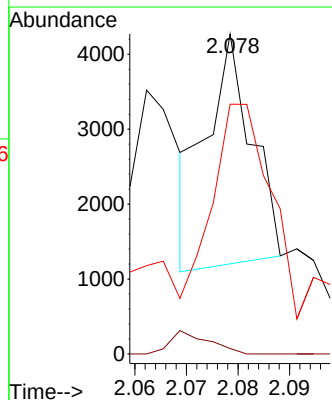
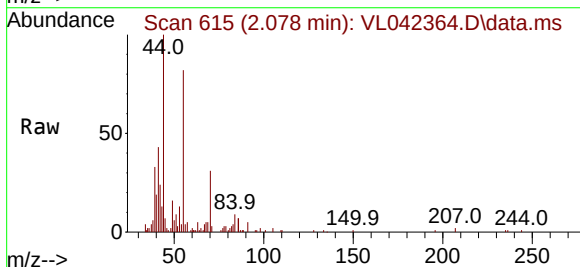
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

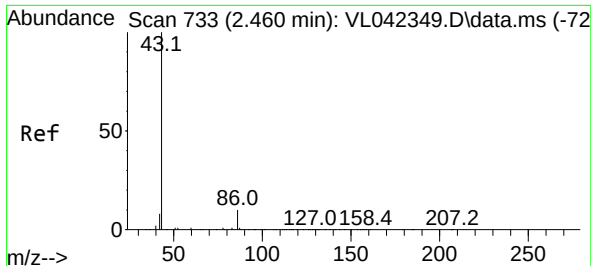
Tgt Ion: 84	Resp: 39273		
Ion	Ratio	Lower	Upper
84	100		
49	149.8	111.6	167.4
51	47.4	35.1	52.7
86	58.3	48.9	73.3



#21
Allyl Chloride
Concen: 0.141 ppbv
RT: 2.078 min Scan# 615
Delta R.T. -0.016 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion: 41	Resp: 1879
Ion Ratio	Lower Upper
41 100	
76 0.0	24.8 37.2#
39 143.2	60.6 90.8#

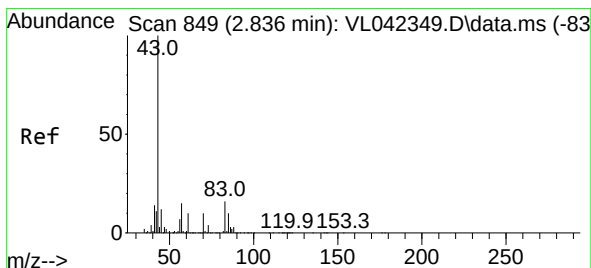
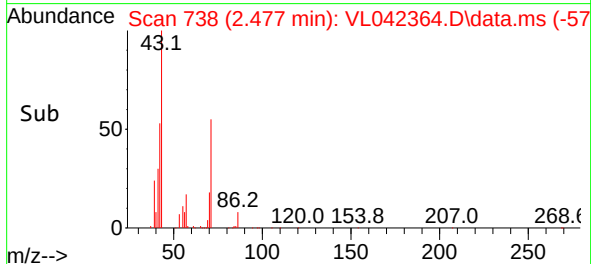
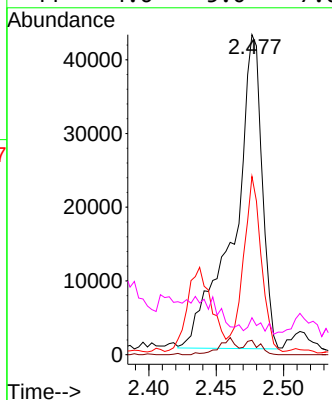
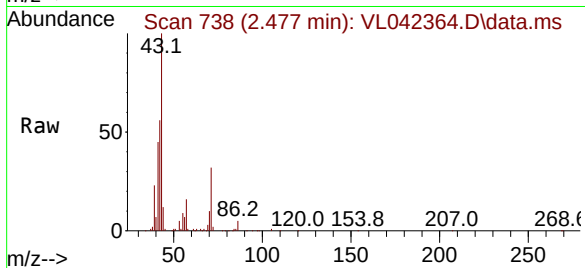




#23
 Vinyl Acetate
 Concen: 7.884 ppbv
 RT: 2.477 min Scan# 71
 Delta R.T. 0.017 min
 Lab File: VL042364.D
 Acq: 17 Apr 2025 18:58

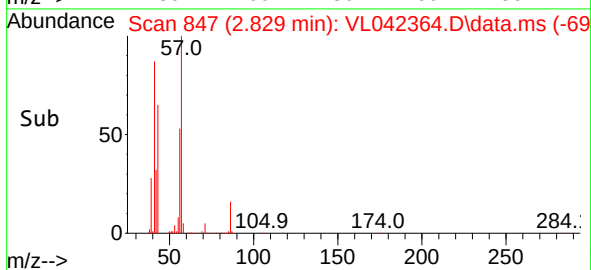
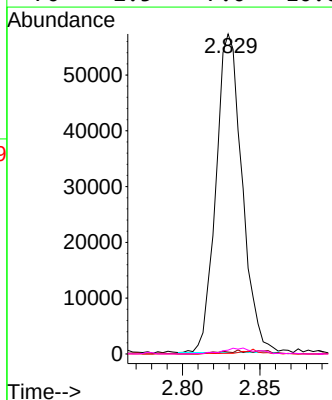
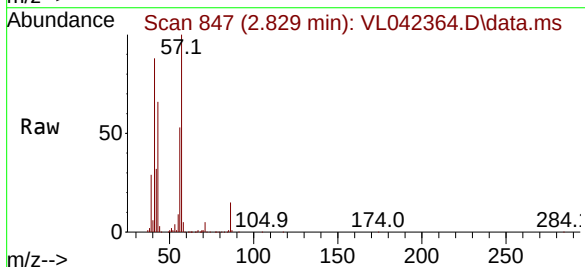
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B1-1-3252025

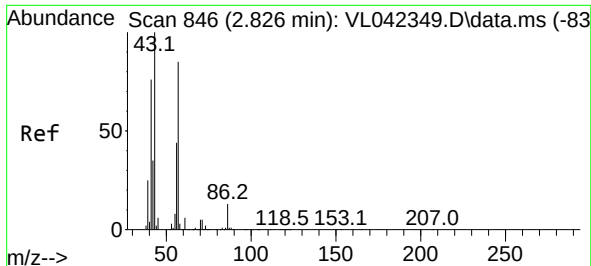
Tgt Ion:	43	Resp:	61483
Ion	Ratio	Lower	Upper
43	100		
86	4.6	6.5	9.7#
42	55.0	7.8	11.8#
44	4.6	5.0	7.6#



#25
 Ethyl Acetate
 Concen: 1.409 ppbv
 RT: 2.829 min Scan# 847
 Delta R.T. -0.006 min
 Lab File: VL042364.D
 Acq: 17 Apr 2025 18:58

Tgt Ion:	43	Resp:	66917
Ion	Ratio	Lower	Upper
43	100		
45	1.8	8.3	12.5#
61	1.1	7.3	10.9#
70	2.5	7.0	10.6#

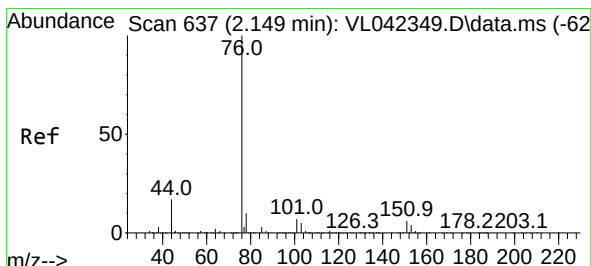
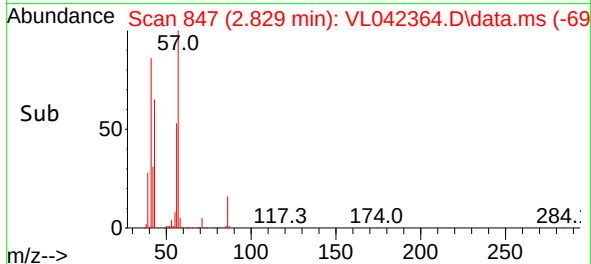
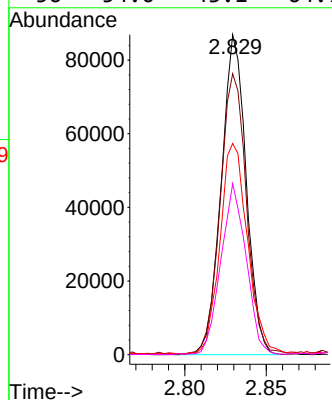
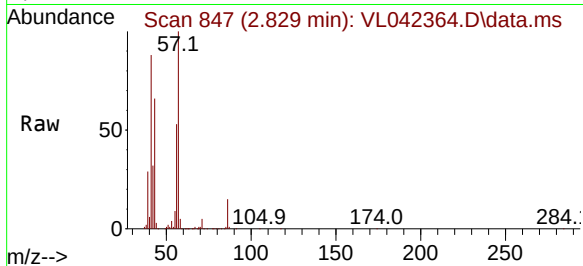




#26
Hexane
Concen: 4.817 ppbv
RT: 2.829 min Scan# 846
Delta R.T. 0.004 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

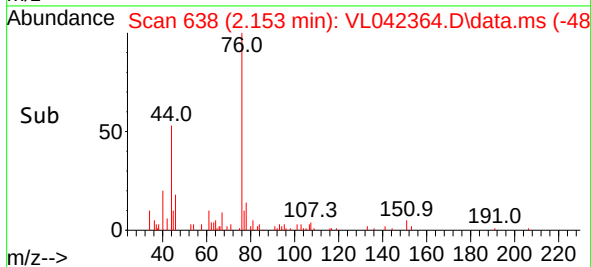
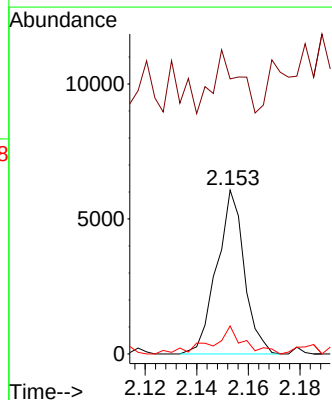
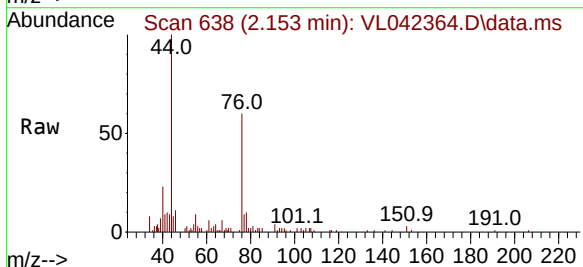
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

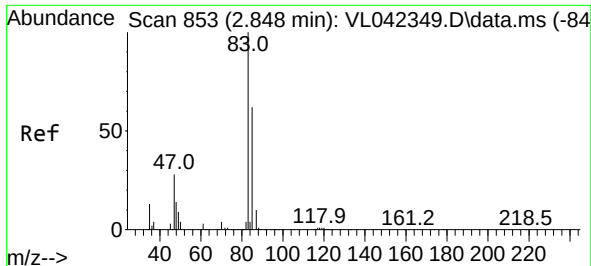
Tgt Ion: 57	Resp: 92595
Ion Ratio	Lower Upper
57 100	
41 92.9	77.9 116.9
43 73.0	208.4 312.6#
56 54.0	43.1 64.7



#27
Carbon Disulfide
Concen: 0.218 ppbv
RT: 2.153 min Scan# 638
Delta R.T. 0.004 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion: 76	Resp: 4485
Ion Ratio	Lower Upper
76 100	
44 265.5	15.5 23.3#
78 19.9	9.3 13.9#





#29

Chloroform

Concen: 0.094 ppbv

RT: 2.855 min Scan# 8

Delta R.T. 0.007 min

Lab File: VL042364.D

Acq: 17 Apr 2025 18:58

Instrument :

MSVOA_L

ClientSampleId :

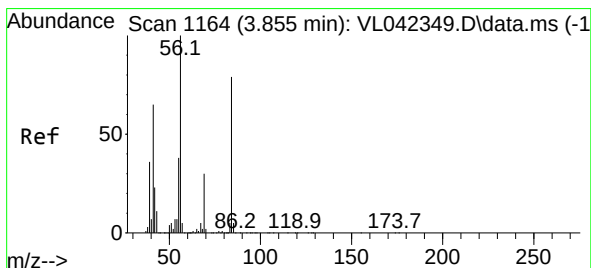
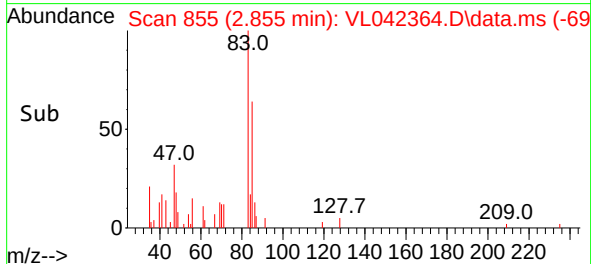
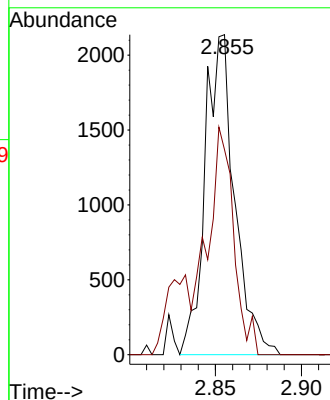
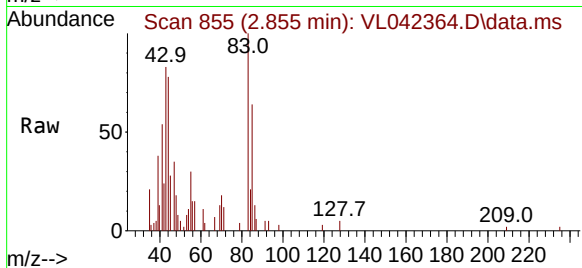
IA-B1-1-3252025

Tgt Ion: 83 Resp: 2558

Ion Ratio Lower Upper

83 100

85 64.1 50.0 75.0



#30

Cyclohexane

Concen: 1.845 ppbv

RT: 3.865 min Scan# 1167

Delta R.T. 0.010 min

Lab File: VL042364.D

Acq: 17 Apr 2025 18:58

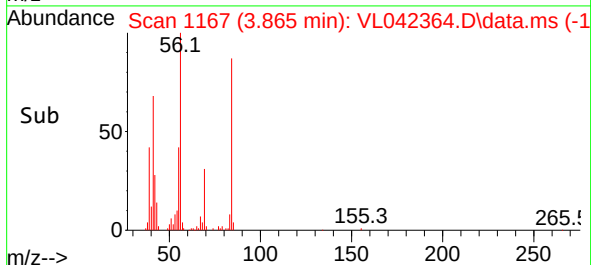
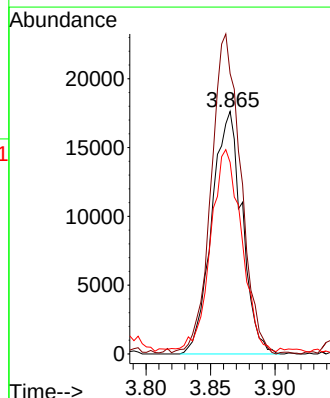
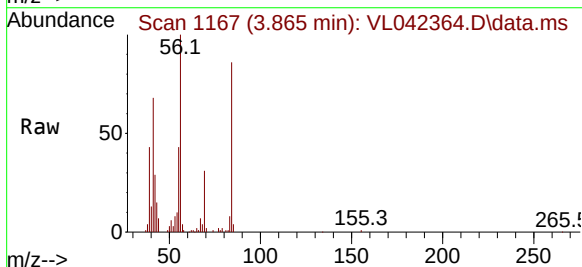
Tgt Ion: 84 Resp: 28679

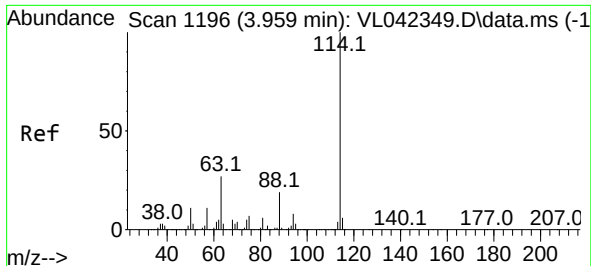
Ion Ratio Lower Upper

84 100

56 129.9 101.0 151.4

41 86.0 67.4 101.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. 0.004 min

Lab File: VL042364.D

Acq: 17 Apr 2025 18:58

Instrument :

MSVOA_L

ClientSampleId :

IA-B1-1-3252025

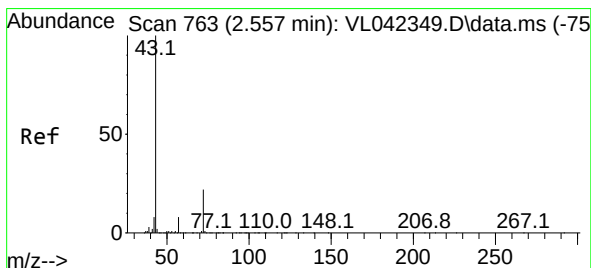
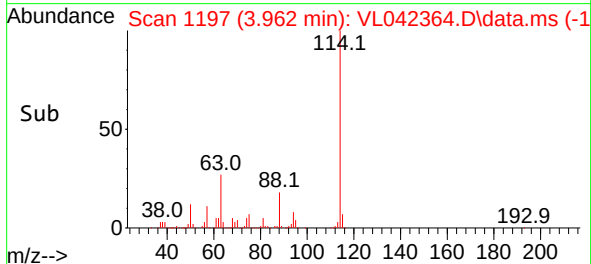
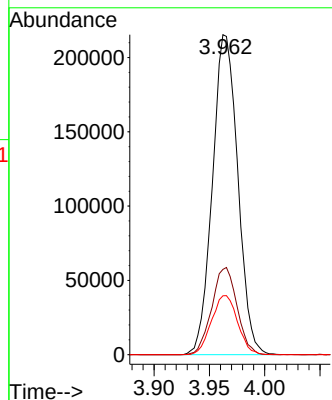
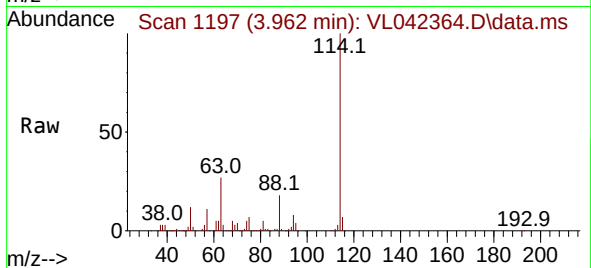
Tgt Ion:114 Resp: 343133

Ion Ratio Lower Upper

114 100

63 27.3 21.8 32.6

88 19.0 15.5 23.3



#34

2-Butanone

Concen: 0.825 ppbv

RT: 2.564 min Scan# 765

Delta R.T. 0.007 min

Lab File: VL042364.D

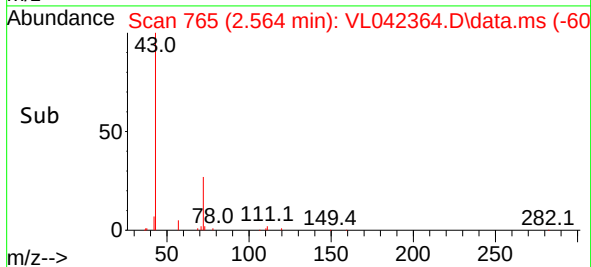
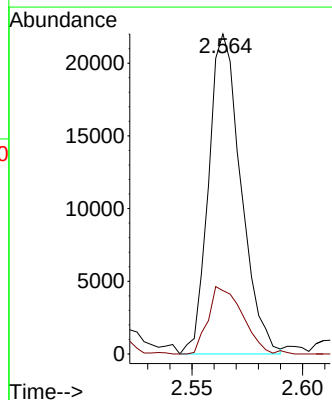
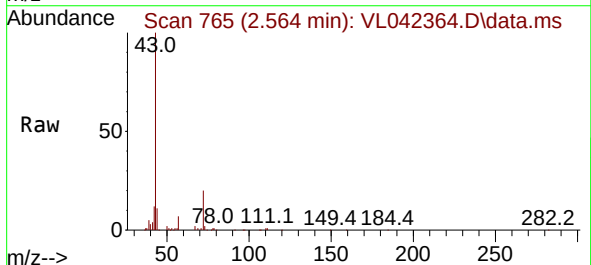
Acq: 17 Apr 2025 18:58

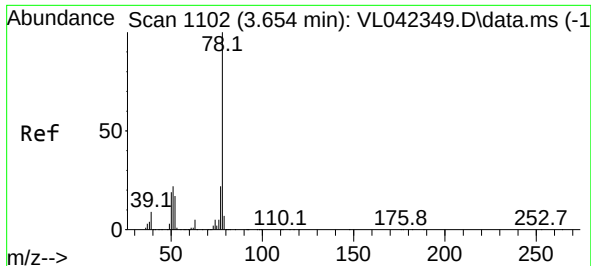
Tgt Ion: 43 Resp: 22380

Ion Ratio Lower Upper

43 100

72 22.4 18.2 27.2

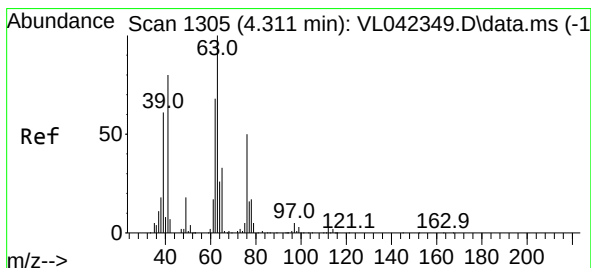
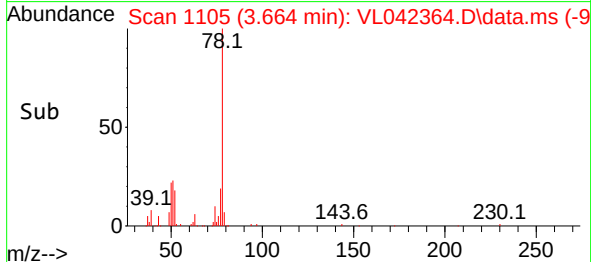
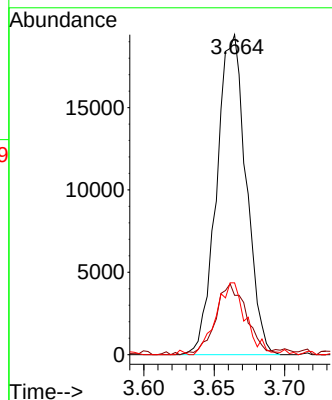
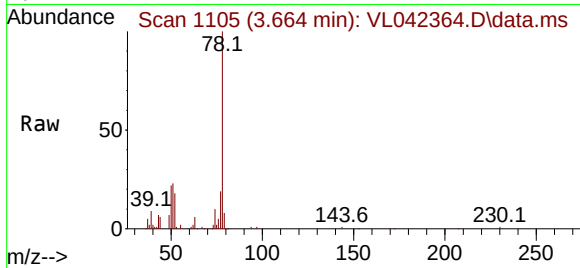




#36
Benzene
Concen: 0.768 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. 0.010 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

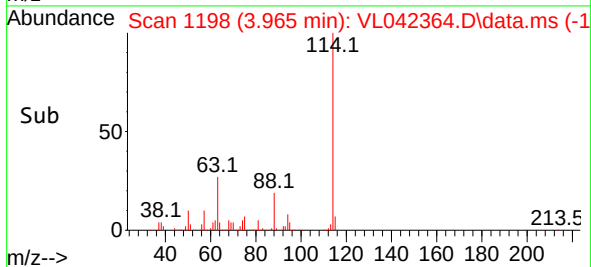
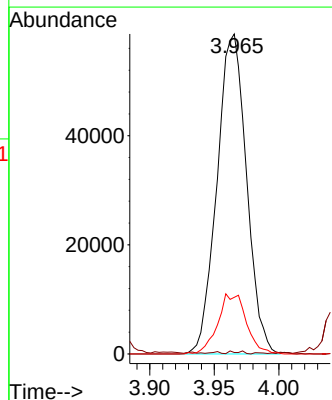
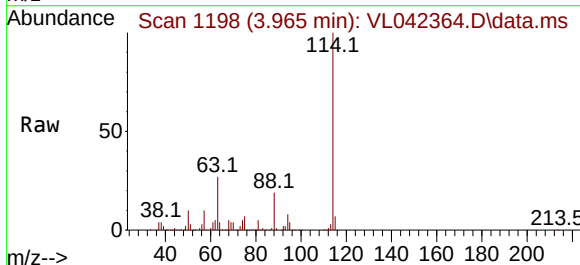
Instrument :
MSVOA_1
ClientSampleId :
IA-B1-1-3252025

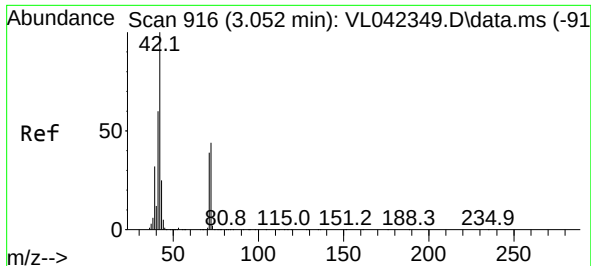
Tgt Ion: 78 Resp: 28409
Ion Ratio Lower Upper
78 100
77 18.5 17.4 26.0
50 21.7 15.5 23.3



#39
1,2-Dichloropropane
Concen: 6.771 ppbv
RT: 3.965 min Scan# 1198
Delta R.T. -0.346 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion: 63 Resp: 93381
Ion Ratio Lower Upper
63 100
41 0.1 64.2 96.2#
62 17.7 54.3 81.5#

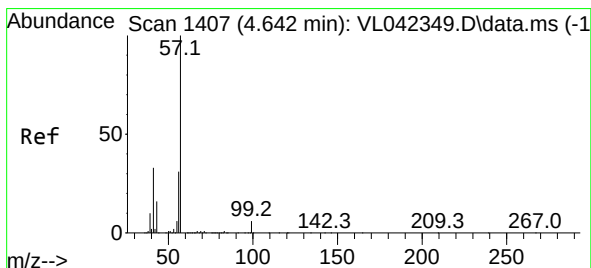
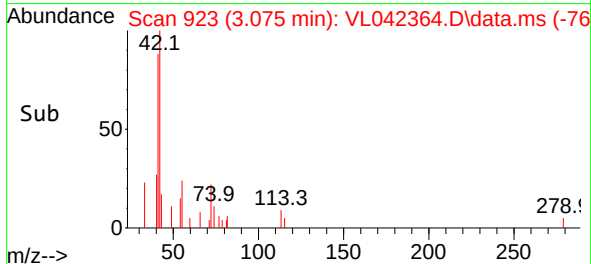
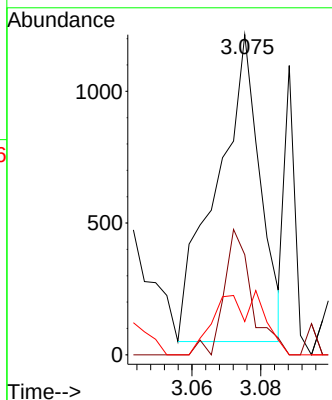
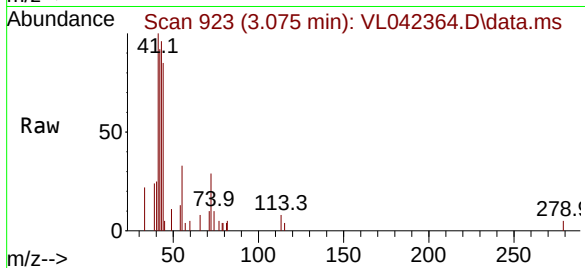




#41
Tetrahydrofuran
Concen: 0.065 ppbv
RT: 3.075 min Scan# 916
Delta R.T. 0.023 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

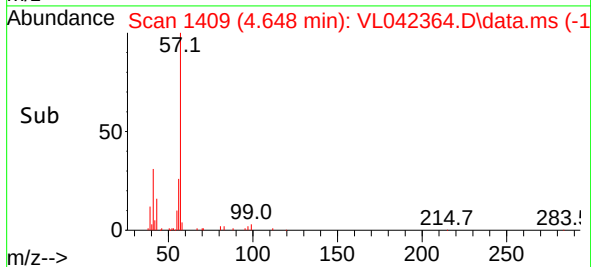
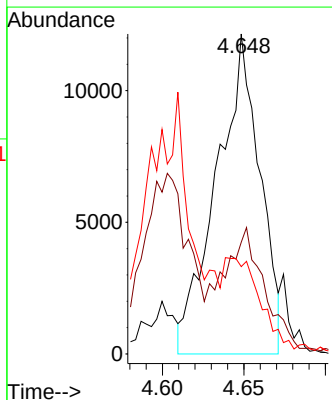
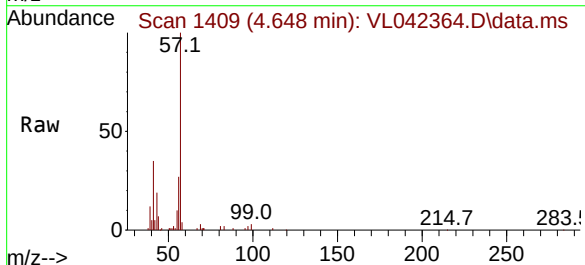
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

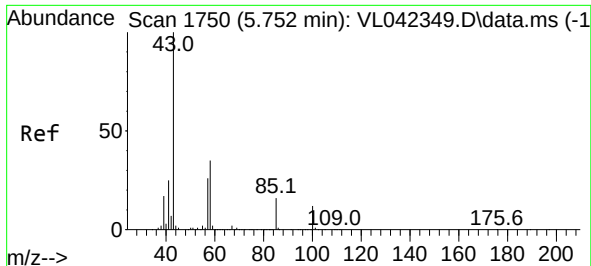
Tgt Ion: 42 Resp: 1027
Ion Ratio Lower Upper
42 100
72 28.5 32.3 48.5#
71 27.3 31.4 47.2#



#44
2,2,4-Trimethylpentane
Concen: 0.350 ppbv
RT: 4.648 min Scan# 1409
Delta R.T. 0.007 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion: 57 Resp: 22397
Ion Ratio Lower Upper
57 100
41 34.2 27.2 40.8
56 0.0 25.7 38.5#

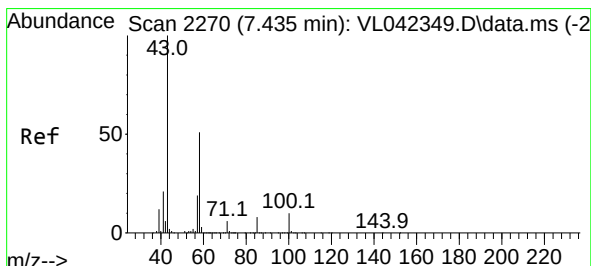
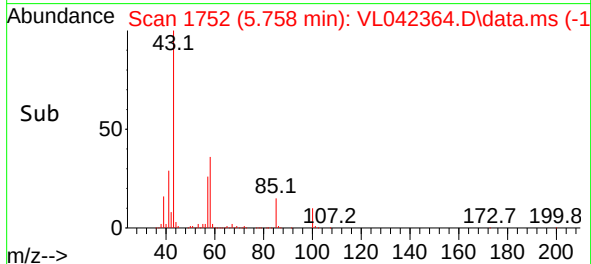
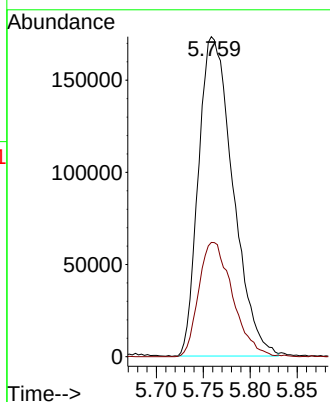
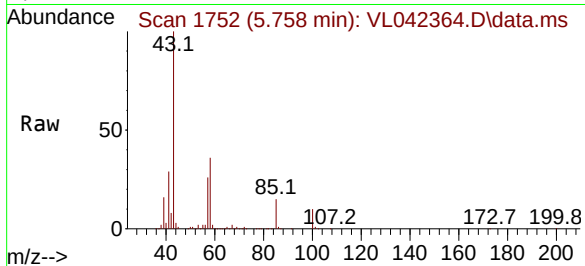




#50
4-Methyl-2-Pentanone
Concen: 9.785 ppbv
RT: 5.758 min Scan# 11
Delta R.T. 0.007 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

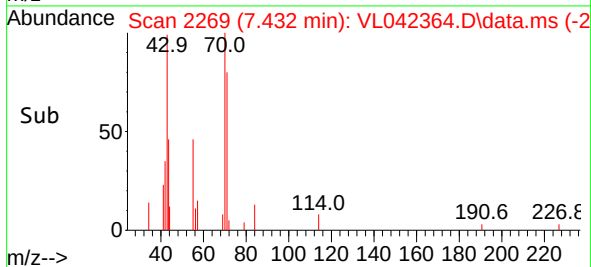
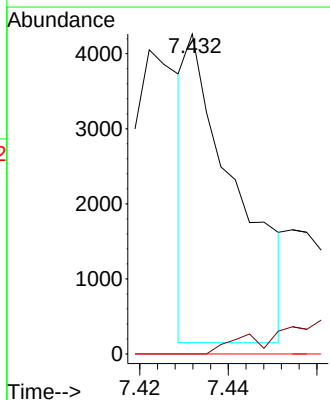
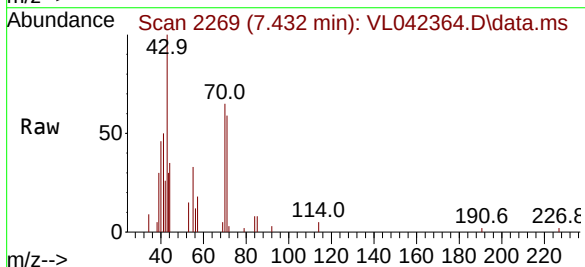
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

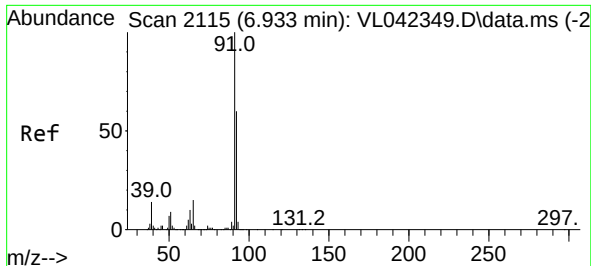
Tgt Ion: 43 Resp: 441281
Ion Ratio Lower Upper
43 100
58 35.4 28.6 43.0



#51
2-Hexanone
Concen: 0.079 ppbv
RT: 7.432 min Scan# 2269
Delta R.T. -0.003 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion: 43 Resp: 3177
Ion Ratio Lower Upper
43 100
58 0.0 40.2 60.4#
98 0.0 0.1 0.1#

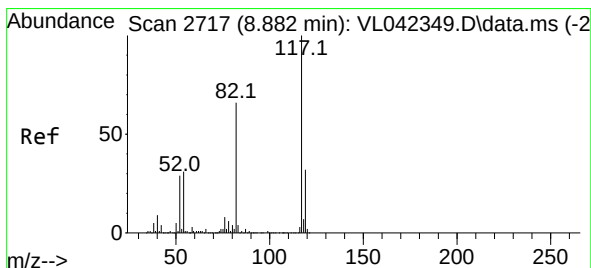
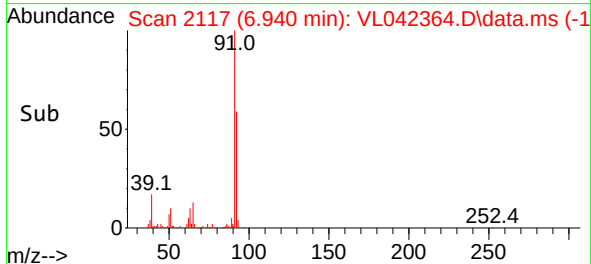
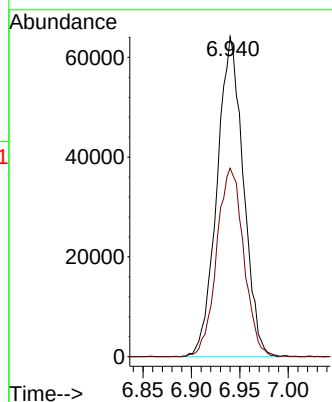
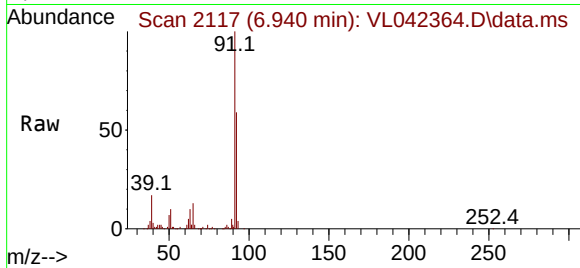




#53
Toluene
Concen: 2.738 ppbv
RT: 6.940 min Scan# 2115
Delta R.T. 0.007 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

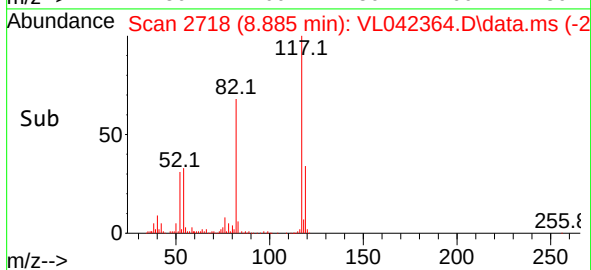
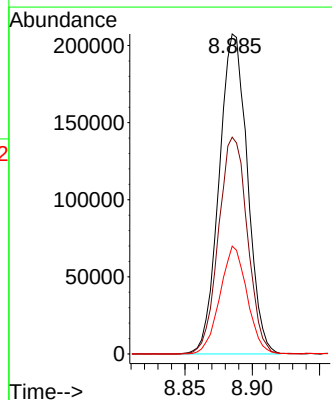
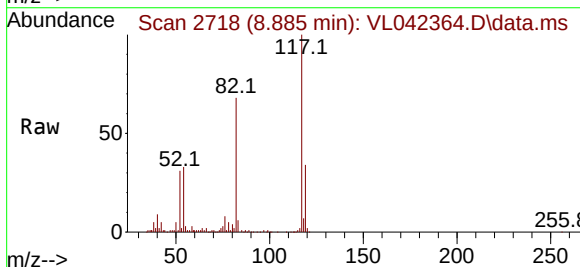
Instrument :
MSVOA_L
ClientSampleId :
LA-B1-1-3252025

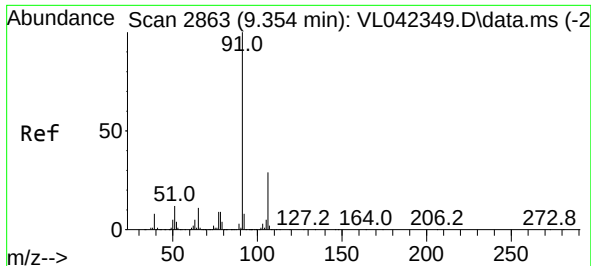
Tgt Ion: 91 Resp: 121585
Ion Ratio Lower Upper
91 100
92 60.5 48.2 72.4



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2718
Delta R.T. 0.004 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion: 117 Resp: 303219
Ion Ratio Lower Upper
117 100
82 69.1 57.8 86.6
119 32.4 25.2 37.8

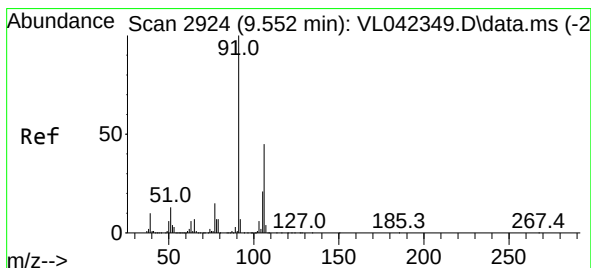
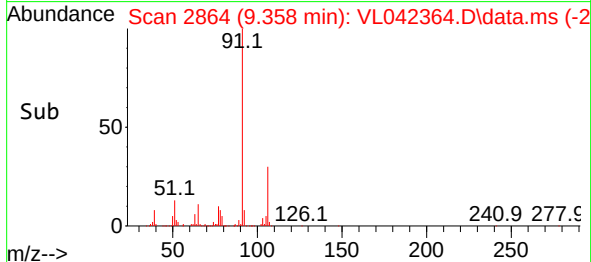
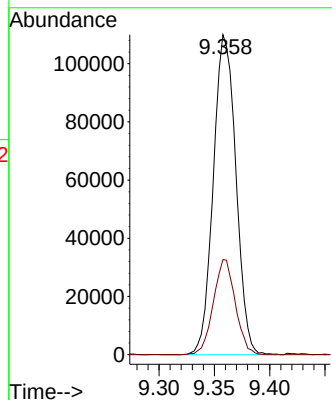
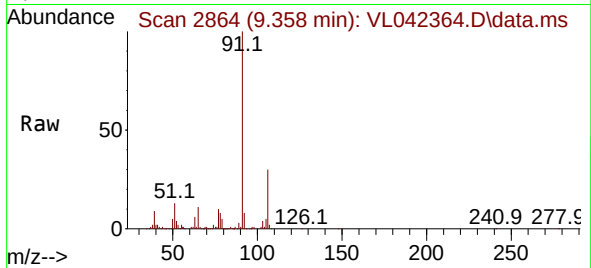




#58
Ethyl Benzene
Concen: 2.603 ppbv
RT: 9.358 min Scan# 2199
Delta R.T. 0.004 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

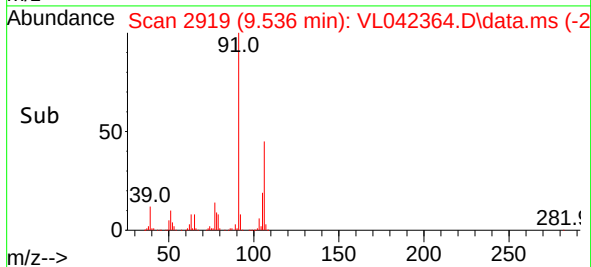
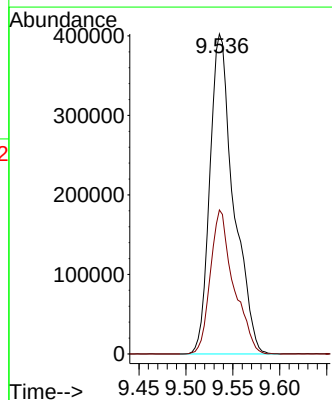
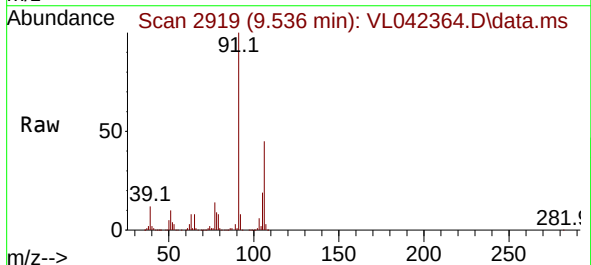
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

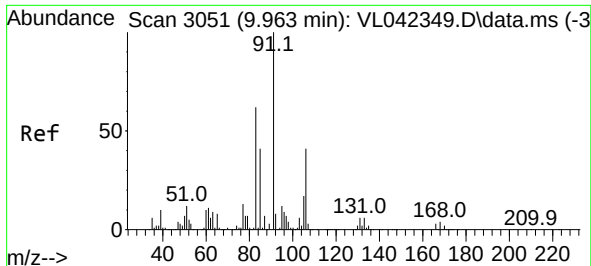
Tgt Ion: 91 Resp: 156392
Ion Ratio Lower Upper
91 100
106 29.7 23.0 34.4



#59
m/p-Xylene
Concen: 14.596 ppbv
RT: 9.536 min Scan# 2919
Delta R.T. -0.016 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion: 91 Resp: 706391
Ion Ratio Lower Upper
91 100
106 44.2 35.4 53.2

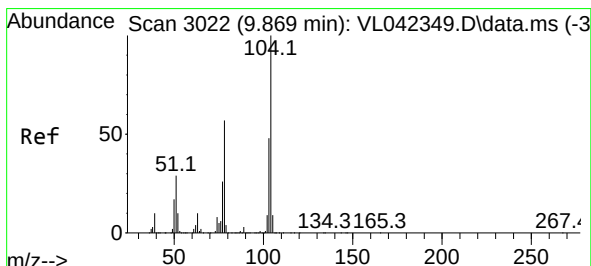
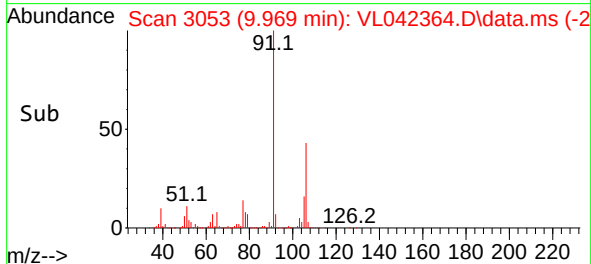
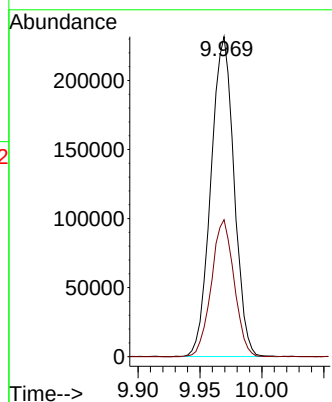
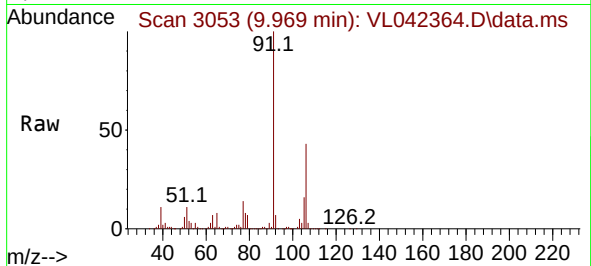




#60
o-Xylene
Concen: 6.183 ppbv
RT: 9.969 min Scan# 3051
Delta R.T. 0.007 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

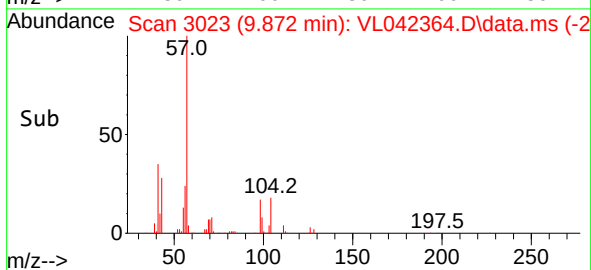
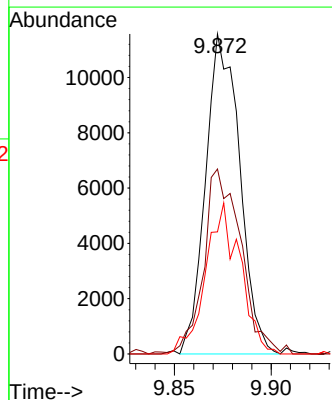
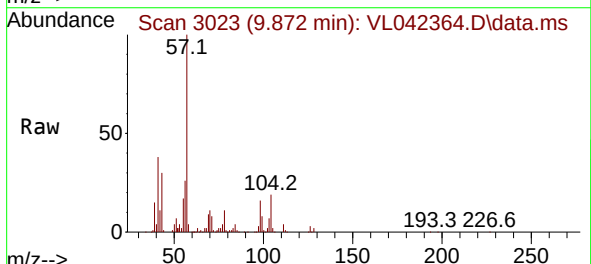
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

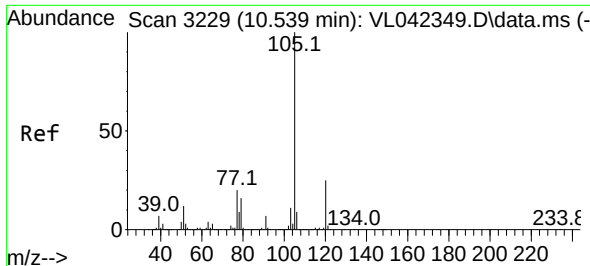
Tgt Ion: 91 Resp: 301328
Ion Ratio Lower Upper
91 100
106 42.0 21.1 63.4



#61
Styrene
Concen: 0.609 ppbv
RT: 9.872 min Scan# 3023
Delta R.T. 0.004 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion: 104 Resp: 14156
Ion Ratio Lower Upper
104 100
78 63.7 44.6 66.8
103 48.0 37.4 56.0

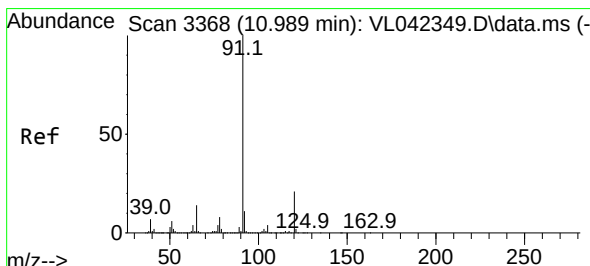
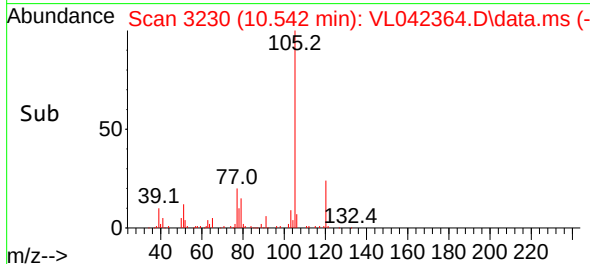
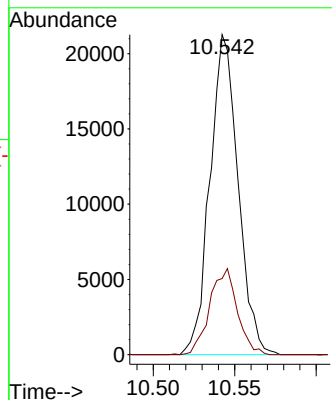
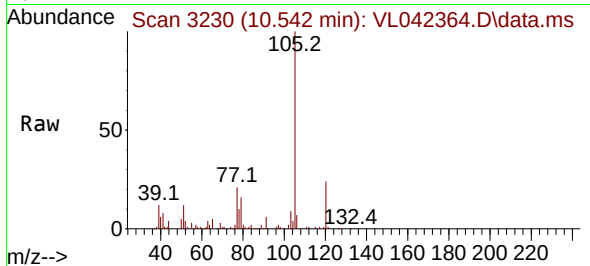




#62
Isopropylbenzene
Concen: 0.357 ppbv
RT: 10.542 min Scan# 31
Delta R.T. 0.004 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

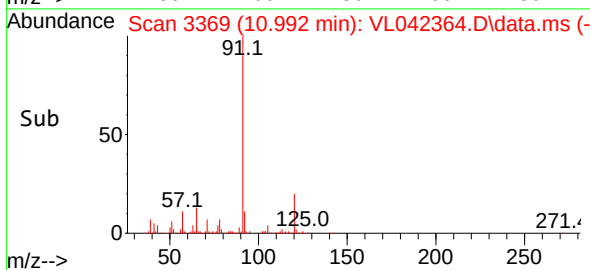
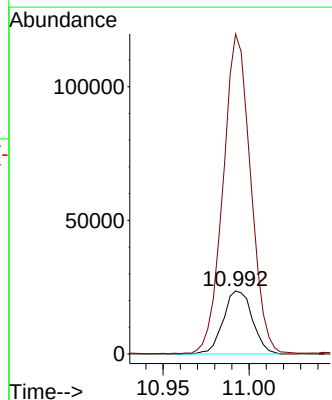
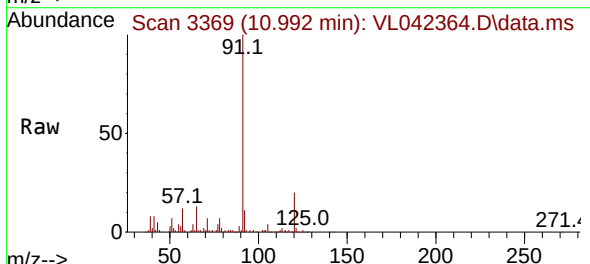
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

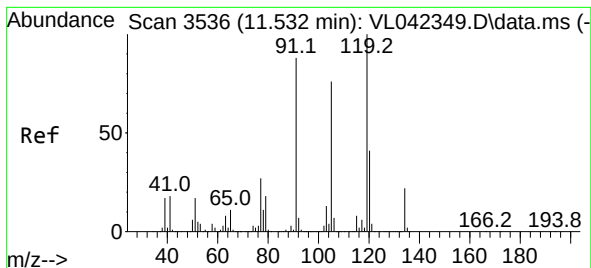
Tgt Ion:105 Resp: 25514
Ion Ratio Lower Upper
105 100
120 26.4 19.8 29.8



#64
n-propylbenzene
Concen: 1.536 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. 0.004 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion:120 Resp: 27632
Ion Ratio Lower Upper
120 100
91 483.8 392.4 588.6





#65

tert-Butylbenzene

Concen: 1.112 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. 0.007 min

Lab File: VL042364.D

Acq: 17 Apr 2025 18:58

Instrument :

MSVOA_L

ClientSampleId :

IA-B1-1-3252025

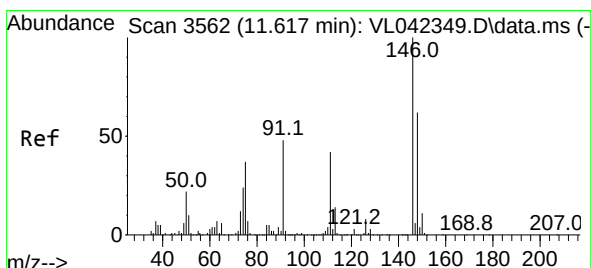
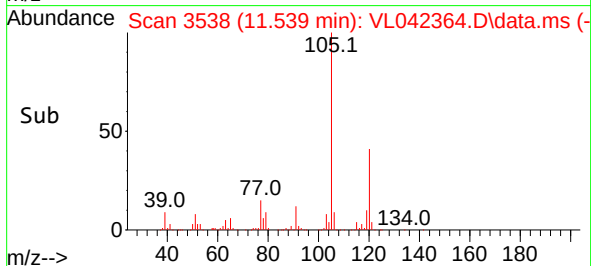
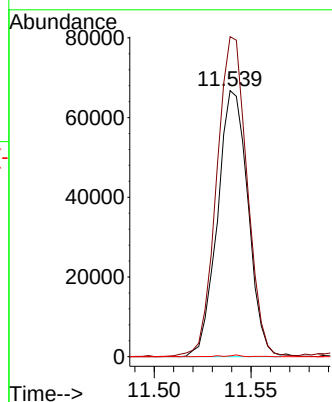
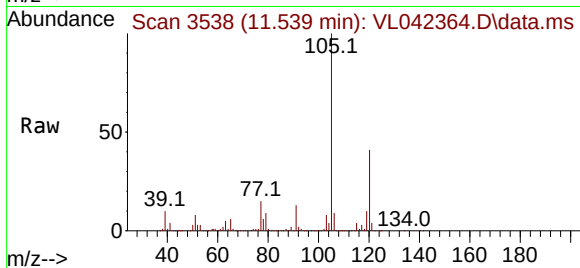
Tgt Ion:119 Resp: 73146

Ion Ratio Lower Upper

119 100

91 120.0 74.6 111.8#

134 0.4 18.8 28.2#



#66

Benzyl Chloride

Concen: 12.198 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. -0.077 min

Lab File: VL042364.D

Acq: 17 Apr 2025 18:58

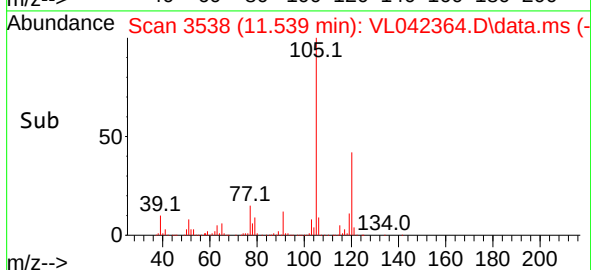
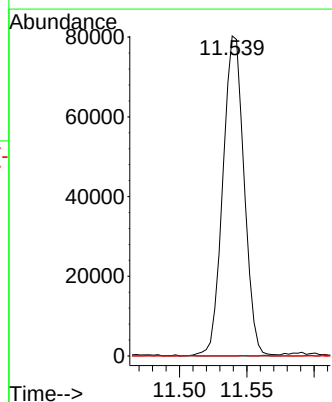
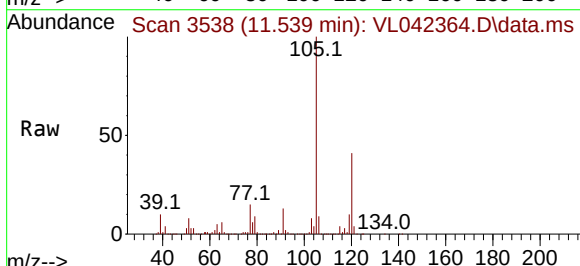
Tgt Ion: 91 Resp: 88151

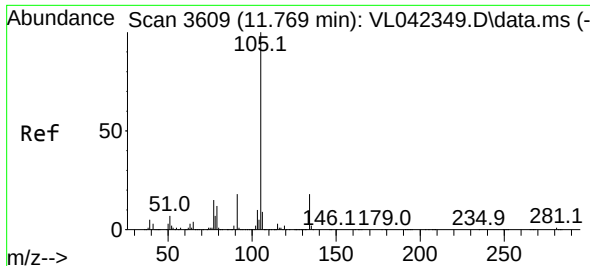
Ion Ratio Lower Upper

91 100

126 0.3 11.8 17.6#

128 0.0 4.5 6.7#

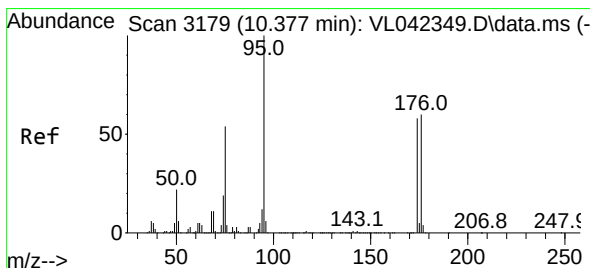
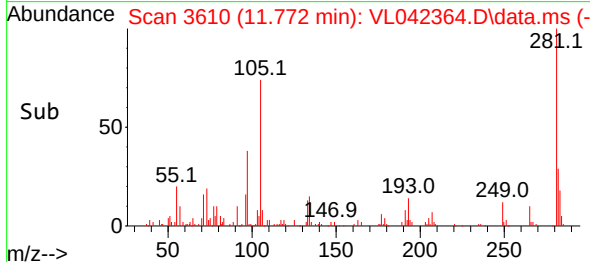
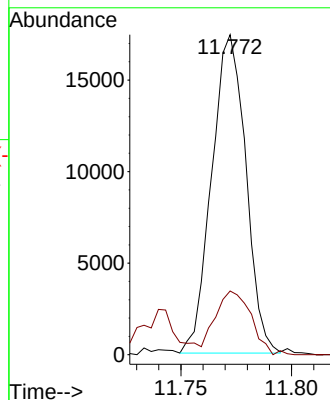
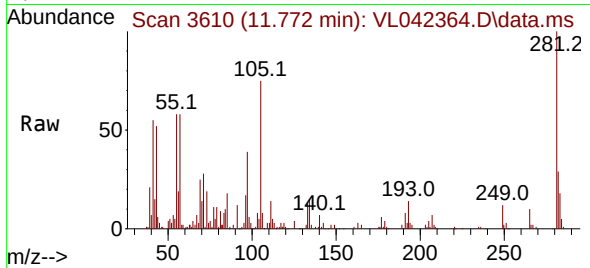




#67
 sec-Butylbenzene
 Concen: 0.204 ppbv
 RT: 11.772 min Scan# 3180
 Delta R.T. 0.004 min
 Lab File: VL042364.D
 Acq: 17 Apr 2025 18:58

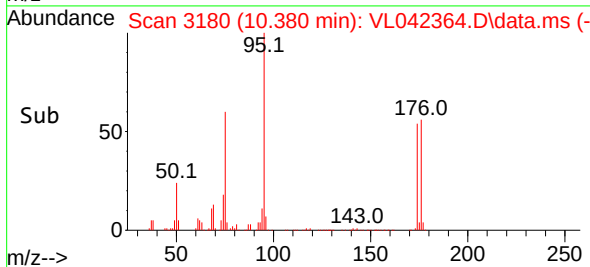
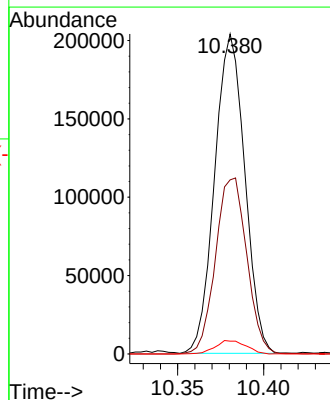
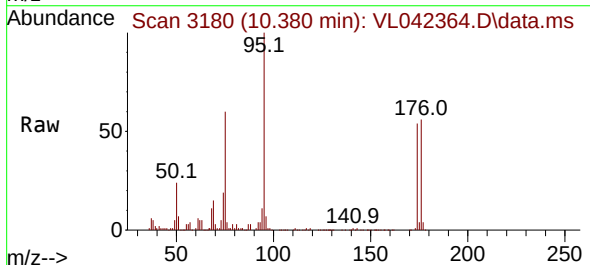
Instrument :
 MSVOA_1
 ClientSampleId :
 IA-B1-1-3252025

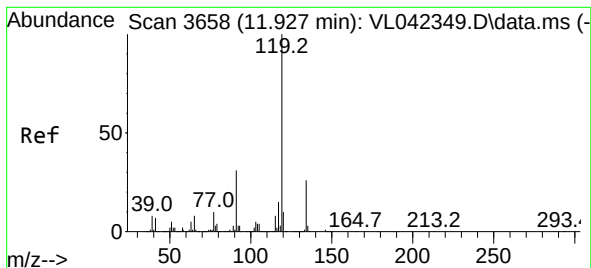
Tgt Ion:105 Resp: 18674
 Ion Ratio Lower Upper
 105 100
 134 20.8 14.6 21.8



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.938 ppbv
 RT: 10.380 min Scan# 3180
 Delta R.T. 0.004 min
 Lab File: VL042364.D
 Acq: 17 Apr 2025 18:58

Tgt Ion: 95 Resp: 247615
 Ion Ratio Lower Upper
 95 100
 174 57.3 48.5 72.7
 175 4.3 3.7 5.5





#69

p-Isopropyltoluene

Concen: 0.169 ppbv

RT: 11.931 min Scan# 3659

Delta R.T. 0.004 min

Lab File: VL042364.D

Acq: 17 Apr 2025 18:58

Instrument :

MSVOA_L

ClientSampleId :

IA-B1-1-3252025

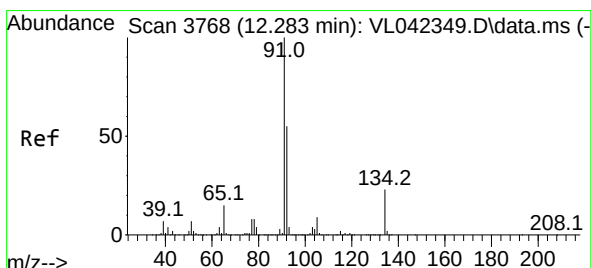
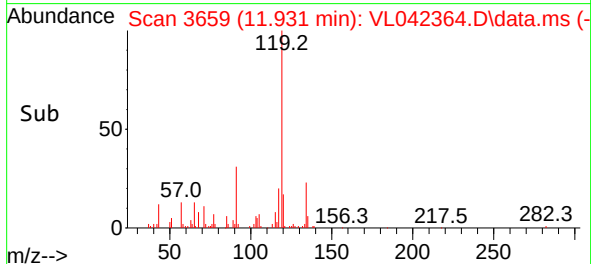
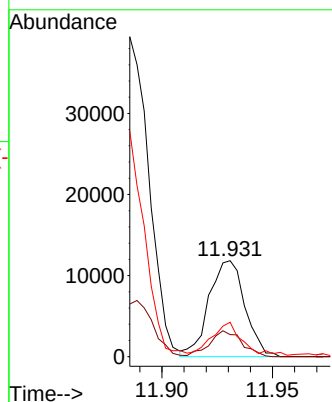
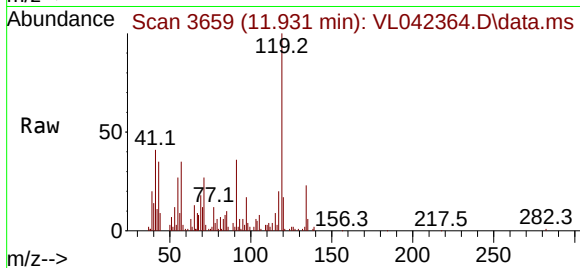
Tgt Ion:119 Resp: 13409

Ion Ratio Lower Upper

119 100

134 24.4 20.0 30.0

91 31.1 24.4 36.6



#70

n-Butylbenzene

Concen: 0.542 ppbv

RT: 12.287 min Scan# 3769

Delta R.T. 0.004 min

Lab File: VL042364.D

Acq: 17 Apr 2025 18:58

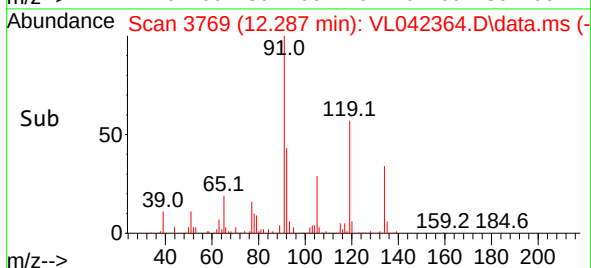
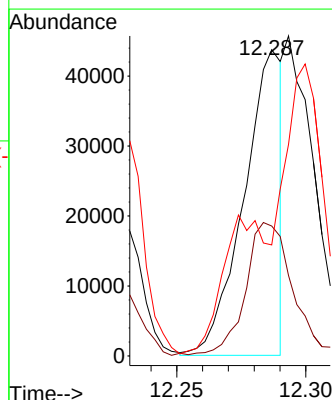
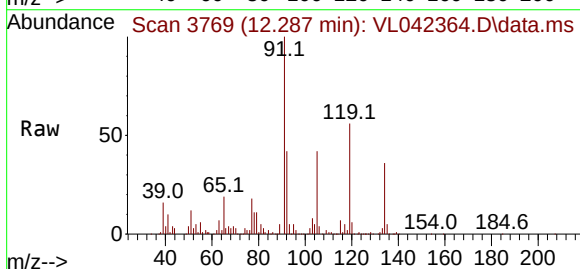
Tgt Ion: 91 Resp: 44840

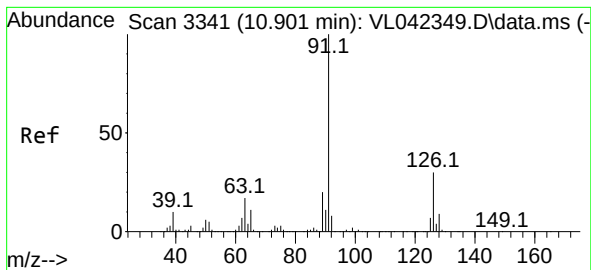
Ion Ratio Lower Upper

91 100

92 54.9 44.2 66.4

134 0.0 18.2 27.4#

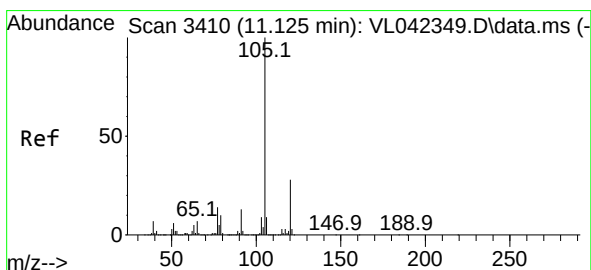
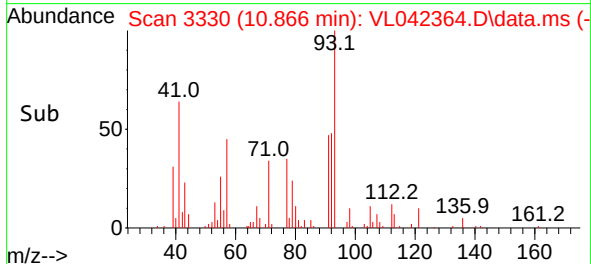
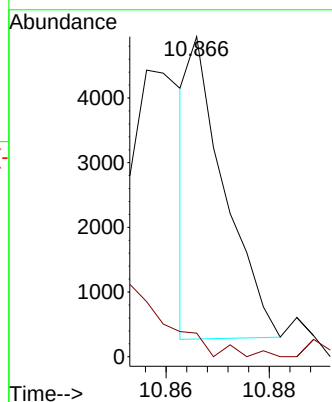
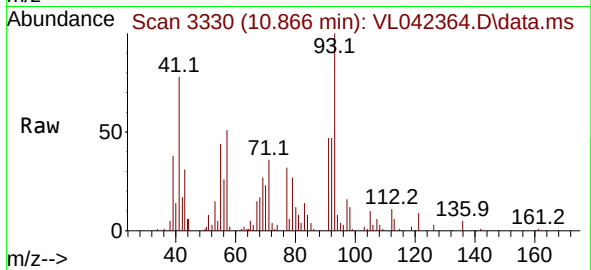




#71
2-Chlorotoluene
Concen: 0.039 ppbv
RT: 10.866 min Scan# 311
Delta R.T. -0.035 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

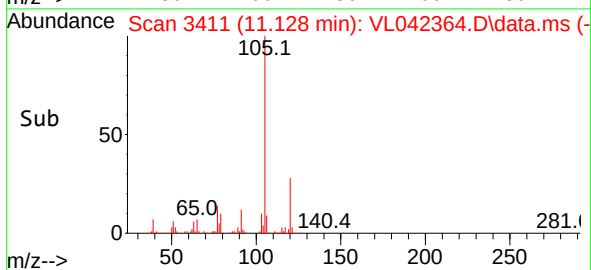
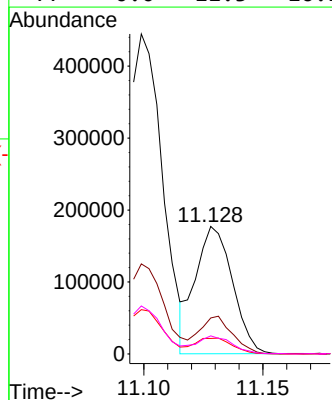
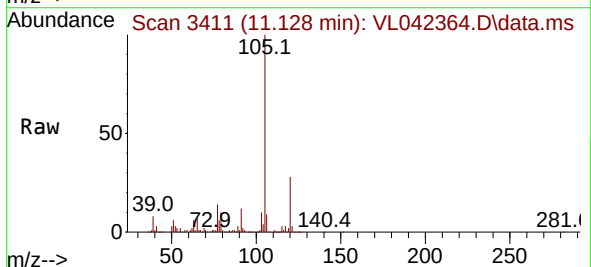
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-1-3252025

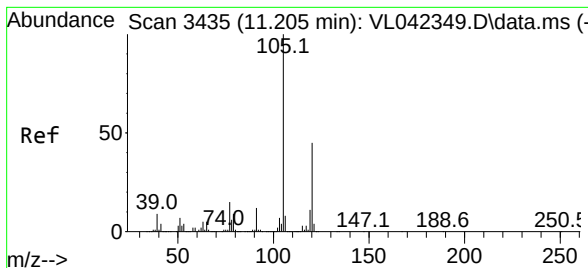
Tgt Ion: 91 Resp: 2208
Ion Ratio Lower Upper
91 100
126 16.7 11.4 45.4



#72
4-Ethyltoluene
Concen: 3.212 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. 0.004 min
Lab File: VL042364.D
Acq: 17 Apr 2025 18:58

Tgt Ion:105 Resp: 191371
Ion Ratio Lower Upper
105 100
120 0.0 23.2 34.8#
91 0.0 10.4 15.6#
77 0.0 11.3 16.9#





#73

1,3,5-Trimethylbenzene

Concen: 3.951 ppbv

RT: 11.209 min Scan# 3435

Delta R.T. 0.004 min

Lab File: VL042364.D

Acq: 17 Apr 2025 18:58

Instrument :

MSVOA_1

ClientSampleId :

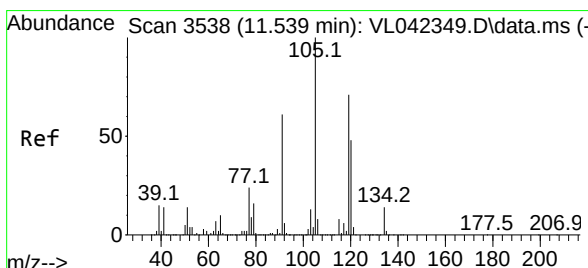
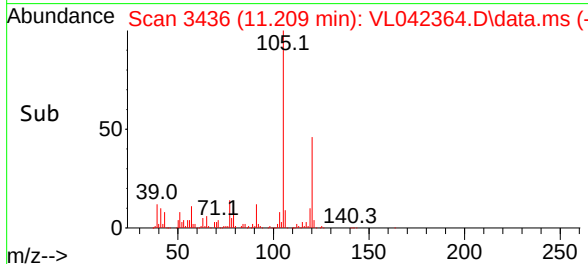
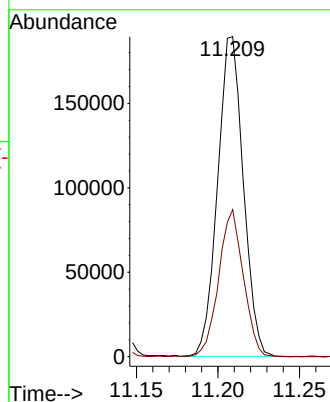
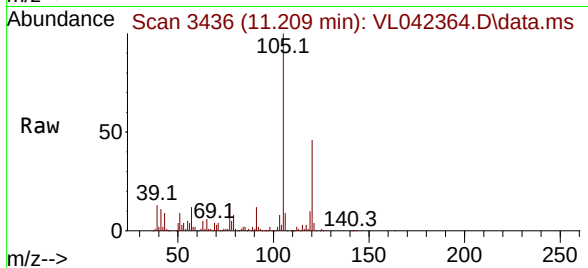
IA-B1-1-3252025

Tgt Ion:105 Resp: 207820

Ion Ratio Lower Upper

105 100

120 45.9 35.6 53.4



#74

1,2,4-Trimethylbenzene

Concen: 11.415 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. 0.000 min

Lab File: VL042364.D

Acq: 17 Apr 2025 18:58

Tgt Ion:105 Resp: 701287

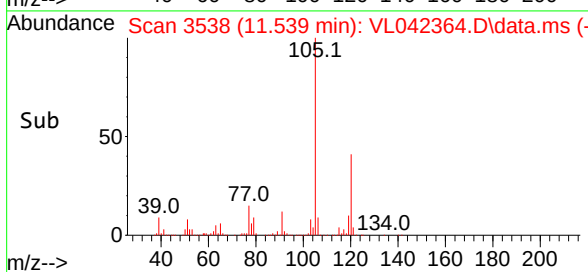
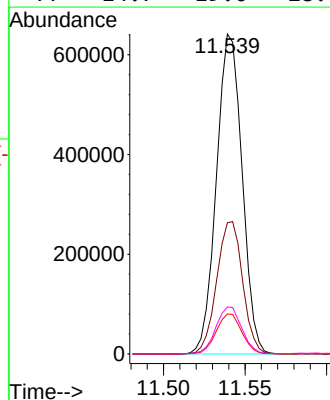
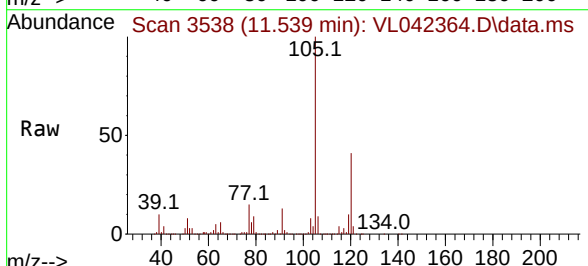
Ion Ratio Lower Upper

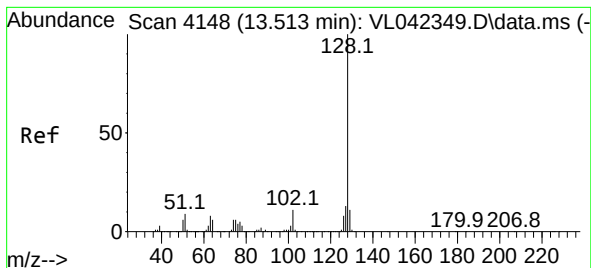
105 100

120 41.0 38.1 57.1

91 12.5 48.8 73.2#

77 14.7 19.0 28.4#





#79

Naphthalene

Concen: 0.491 ppbv

RT: 13.517 min Scan# 4148

Delta R.T. 0.004 min

Lab File: VL042364.D

Acq: 17 Apr 2025 18:58

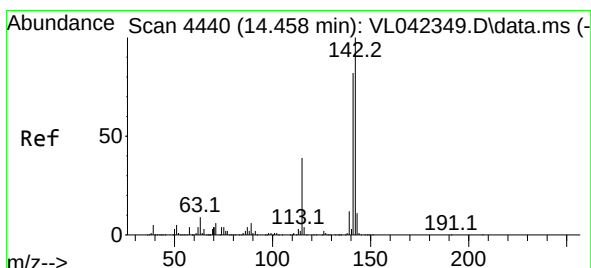
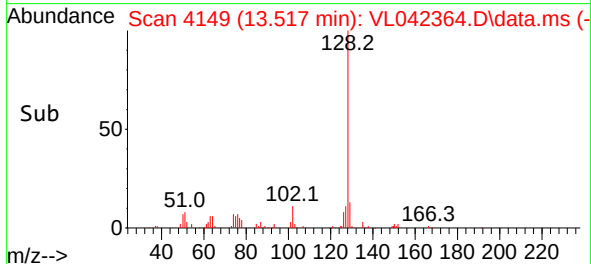
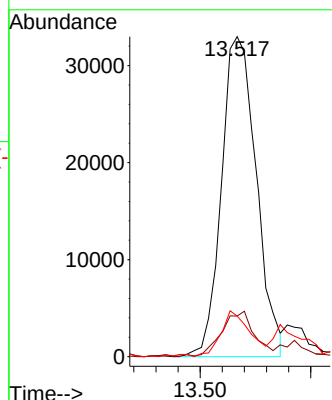
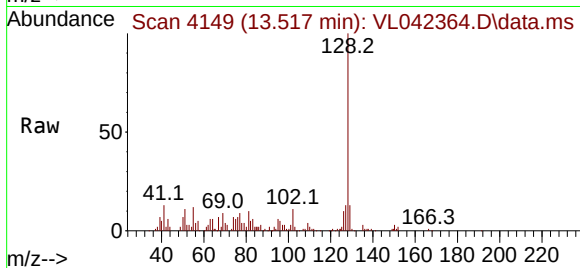
Instrument :

MSVOA_L

ClientSampleId :

IA-B1-1-3252025

Tgt Ion:	128	Resp:	36056
Ion Ratio	Lower	Upper	
128	100		
127	12.5	10.6	15.8
129	12.0	8.6	12.8



#80

Naphthalene, 2-methyl-

Concen: 0.335 ppbv

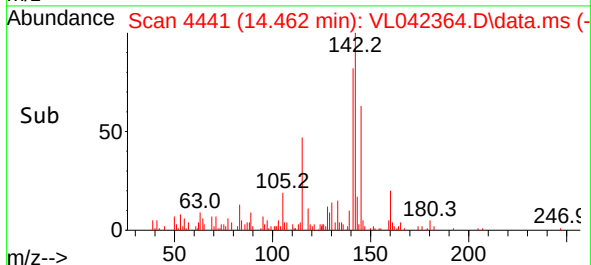
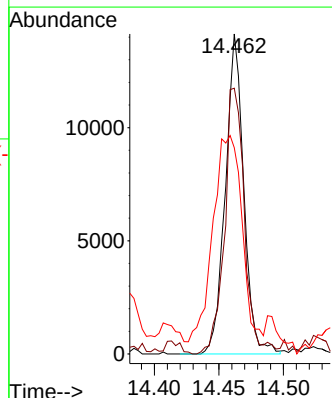
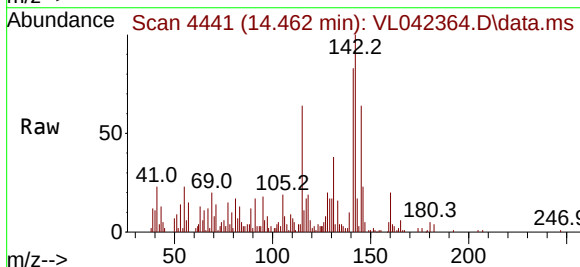
RT: 14.462 min Scan# 4441

Delta R.T. 0.004 min

Lab File: VL042364.D

Acq: 17 Apr 2025 18:58

Tgt Ion:	142	Resp:	14016
Ion Ratio	Lower	Upper	
142	100		
141	90.0	66.8	100.2
115	113.1	33.4	50.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042365.D
 Acq On : 17 Apr 2025 19:31
 Operator : SY/MD
 Sample : Q1668-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B1-2-3252025

Quant Time: Apr 18 02:41:43 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 02:14:00 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	121182	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	339124	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.879	117	302443	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	245115	9.863	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.600%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	9435	0.441	ppbv	98
3) Chlorodifluoromethane	1.476	51	9847	0.483	ppbv	99
4) Chloromethane	1.531	50	4486	0.529	ppbv	96
7) Chloroethane	1.703	64	228	0.068	ppbv	89
9) Propene	1.486	41	5899	0.635	ppbv	91
10) Heptane	4.978	43	16542	0.634	ppbv #	21
11) Trichlorofluoromethane	2.140	101	1142	0.056	ppbv	98
12) 1,1,2-Trichlorotrifluoro...	2.140	101	1142	0.069	ppbv	92
13) Ethanol	1.719	45	204918	138.854	ppbv	75
15) Acetone	1.836	43	106421	5.365	ppbv	91
16) 1,3-Butadiene	1.619	39	5278	0.556	ppbv #	40
17) tert-Butyl alcohol	2.043	59	5385	0.219	ppbv #	64
19) Isopropyl Alcohol	1.884	45	39284	3.565	ppbv #	69
20) Methylene Chloride	2.062	84	10711	1.379	ppbv	95
21) Allyl Chloride	2.075	41	1247	0.091	ppbv #	1
23) Vinyl Acetate	2.451	43	3880	0.483	ppbv #	91
25) Ethyl Acetate	2.826	43	40360	0.825	ppbv #	82
26) Hexane	2.823	57	53574	2.707	ppbv #	34
27) Carbon Disulfide	2.150	76	2882	0.136	ppbv #	62
30) Cyclohexane	3.855	84	18328	1.145	ppbv	96
34) 2-Butanone	2.561	43	15661	0.584	ppbv	94
35) Carbon Tetrachloride	3.755	117	934	0.030	ppbv #	80
36) Benzene	3.655	78	12500	0.342	ppbv #	87
39) 1,2-Dichloropropane	3.962	63	30515	2.239	ppbv #	22
41) Tetrahydrofuran	3.062	42	979	0.063	ppbv #	53
44) 2,2,4-Trimethylpentane	4.642	57	6713	0.106	ppbv #	29
50) 4-Methyl-2-Pentanone	5.746	43	520966	11.689	ppbv	98
53) Toluene	6.930	91	61358	1.398	ppbv	98
58) Ethyl Benzene	9.354	91	56996	0.951	ppbv	97
59) m/p-Xylene	9.529	91	287156	5.949	ppbv	99
60) o-Xylene	9.960	91	110047	2.264	ppbv	100
61) Styrene	9.869	104	10782	0.465	ppbv	96
62) Isopropylbenzene	10.536	105	10773	0.151	ppbv	98
64) n-propylbenzene	10.989	120	11220	0.625	ppbv	96
65) tert-Butylbenzene	11.533	119	34565	0.527	ppbv #	68
66) Benzyl Chloride	11.724	91	1267	0.176	ppbv #	70
67) sec-Butylbenzene	11.769	105	8497	0.093	ppbv #	91
69) p-Isopropyltoluene	11.924	119	6656	0.084	ppbv #	93
70) n-Butylbenzene	12.277	91	17980	0.218	ppbv #	65
71) 2-Chlorotoluene	11.335	91	10005	0.179	ppbv	74
72) 4-Ethyltoluene	11.125	105	77634	1.306	ppbv #	56
73) 1,3,5-Trimethylbenzene	11.203	105	92546	1.764	ppbv	99
74) 1,2,4-Trimethylbenzene	11.536	105	330358	5.391	ppbv #	64

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042365.D
Acq On : 17 Apr 2025 19:31
Operator : SY/MD
Sample : Q1668-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

Quant Time: Apr 18 02:41:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

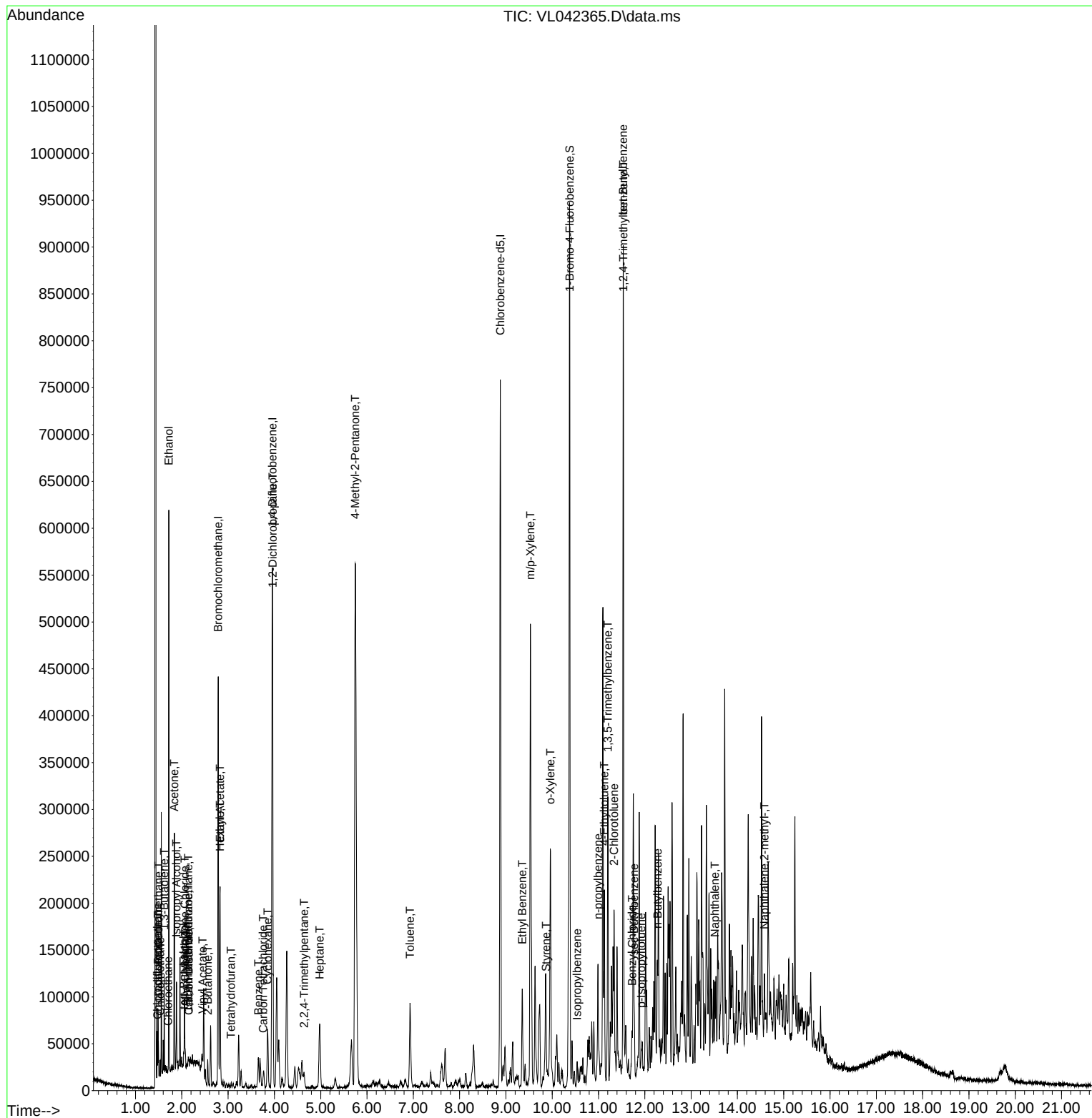
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
79) Naphthalene	13.513	128	34564	0.472	ppbv	98
80) Naphthalene,2-methyl-	14.585	142	15395	0.369	ppbv	95

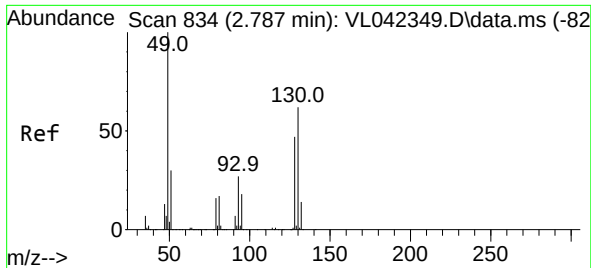
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
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Acq On : 17 Apr 2025 19:31
Operator : SY/MD
Sample : Q1668-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

Quant Time: Apr 18 02:41:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
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QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

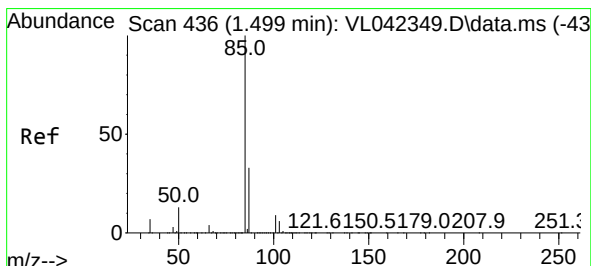
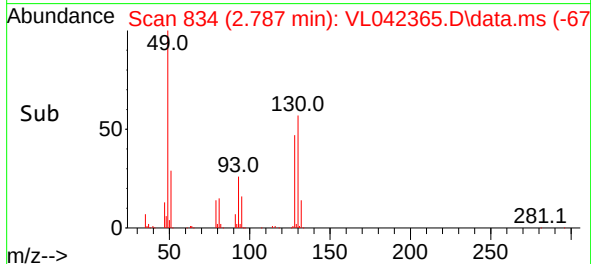
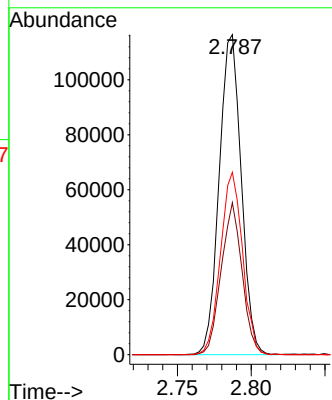
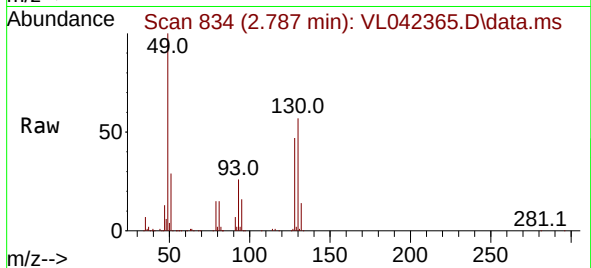




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 811
Delta R.T. 0.000 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

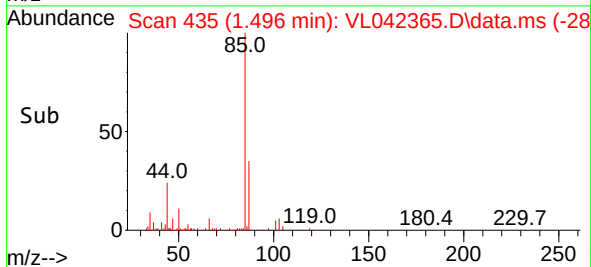
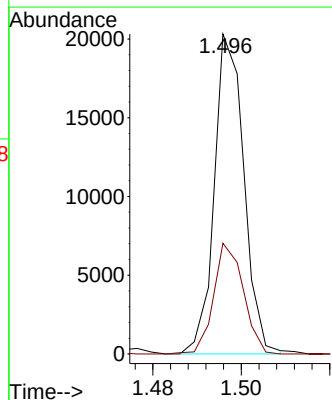
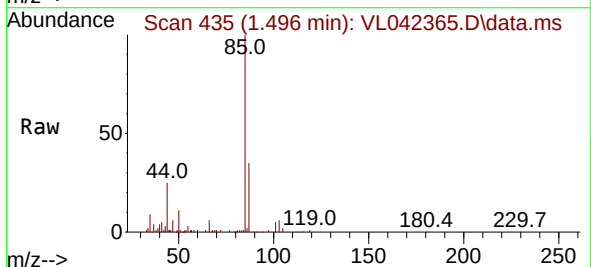
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

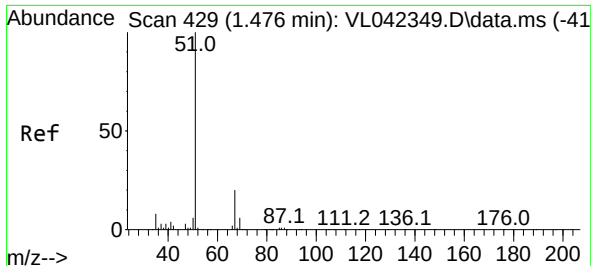
Tgt Ion: 49 Resp: 121182
Ion Ratio Lower Upper
49 100
128 45.0 22.8 68.4
130 56.9 29.3 88.0



#2
Dichlorodifluoromethane
Concen: 0.441 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Tgt Ion: 85 Resp: 9435
Ion Ratio Lower Upper
85 100
87 34.6 26.6 39.8

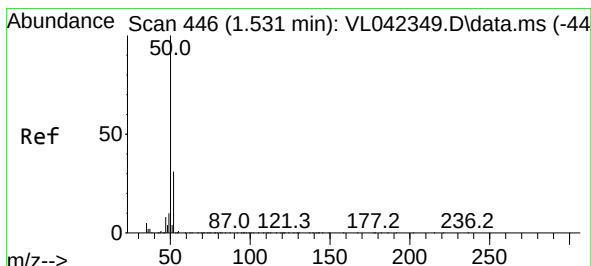
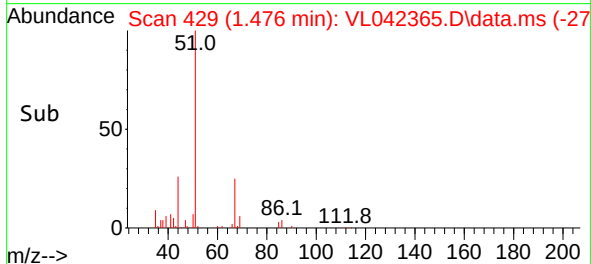
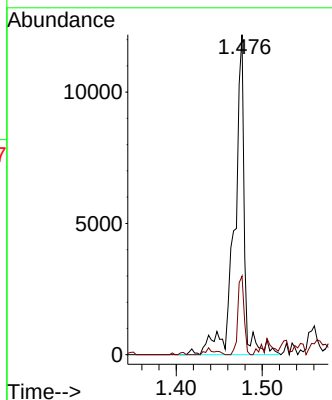
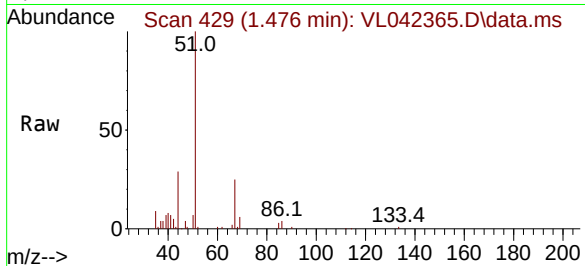




#3
Chlorodifluoromethane
Concen: 0.483 ppbv
RT: 1.476 min Scan# 429
Delta R.T. 0.000 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

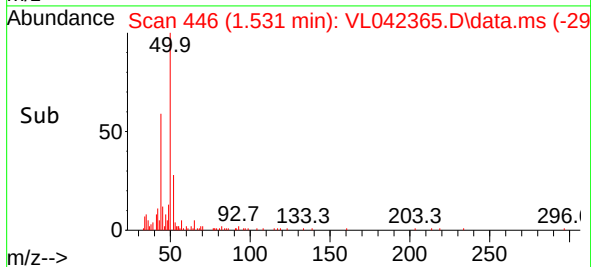
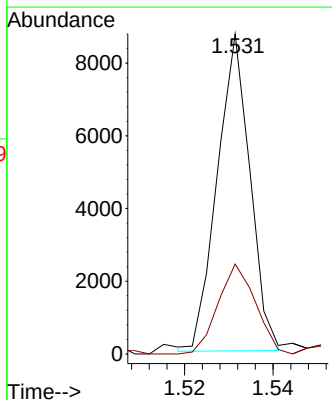
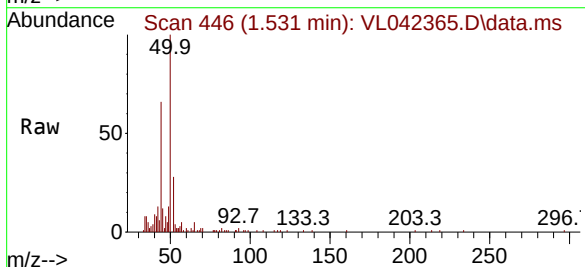
Instrument :
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ClientSampleId :
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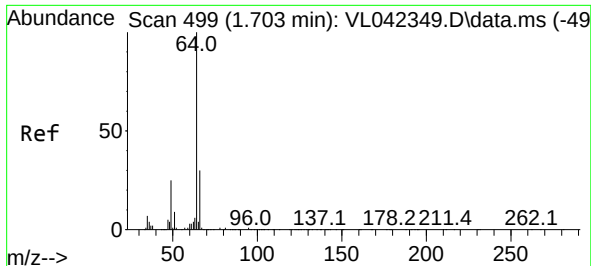
Tgt Ion: 51 Resp: 9847
Ion Ratio Lower Upper
51 100
67 20.7 16.2 24.4



#4
Chloromethane
Concen: 0.529 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Tgt Ion: 50 Resp: 4486
Ion Ratio Lower Upper
50 100
52 28.7 24.7 37.1

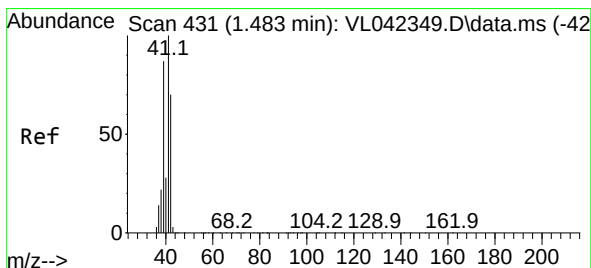
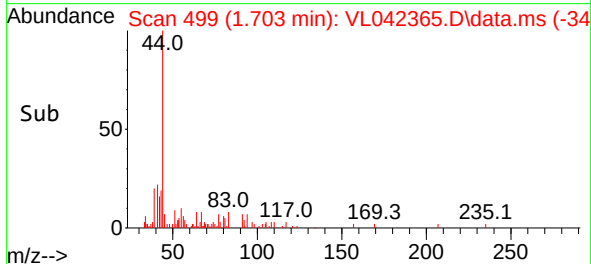
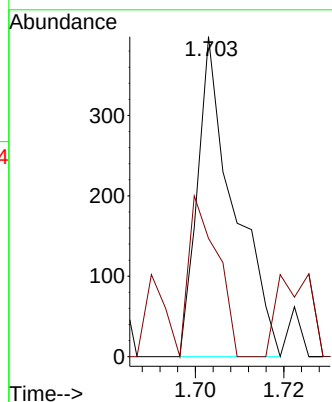
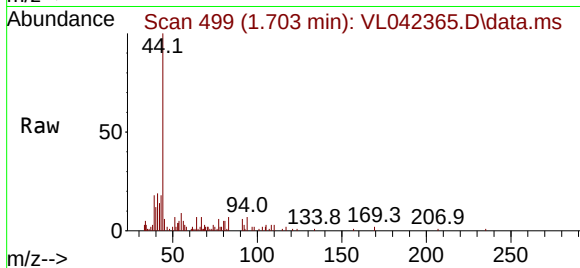




#7
Chloroethane
Concen: 0.068 ppbv
RT: 1.703 min Scan# 499
Delta R.T. 0.000 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

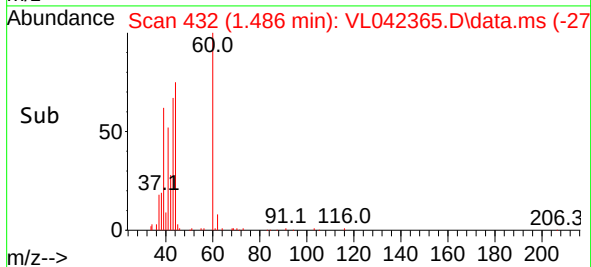
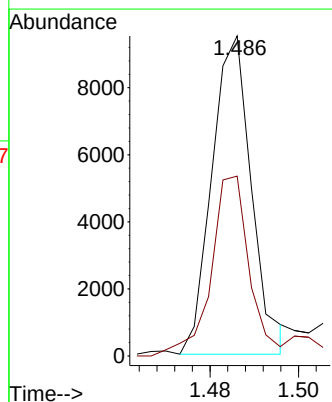
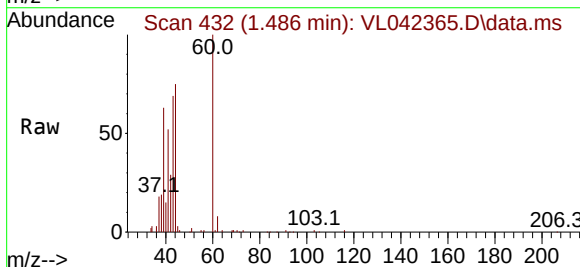
Instrument :
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ClientSampleId :
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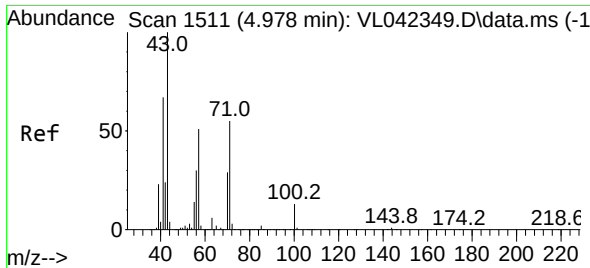
Tgt Ion: 64 Resp: 228
Ion Ratio Lower Upper
64 100
66 36.9 24.6 37.0



#9
Propene
Concen: 0.635 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.004 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Tgt Ion: 41 Resp: 5899
Ion Ratio Lower Upper
41 100
42 62.7 56.2 84.4

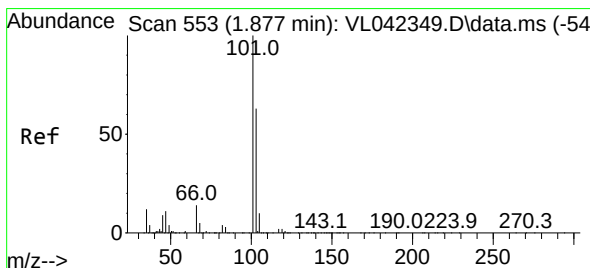
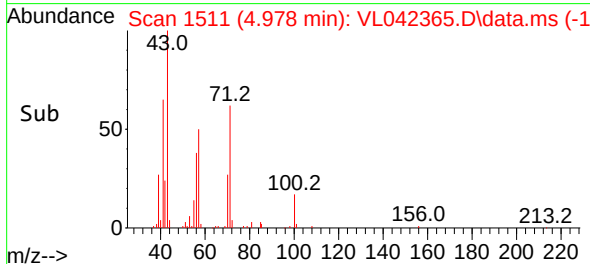
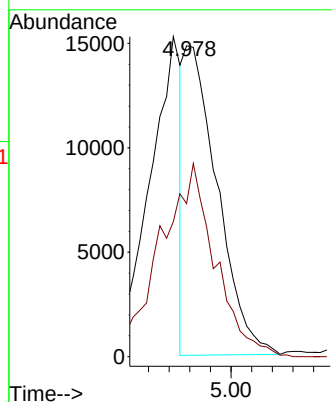
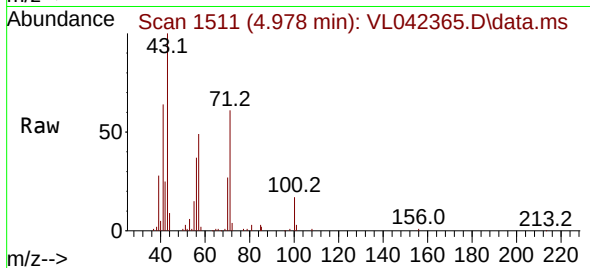




#10
 Heptane
 Concen: 0.634 ppbv
 RT: 4.978 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: VL042365.D
 Acq: 17 Apr 2025 19:31

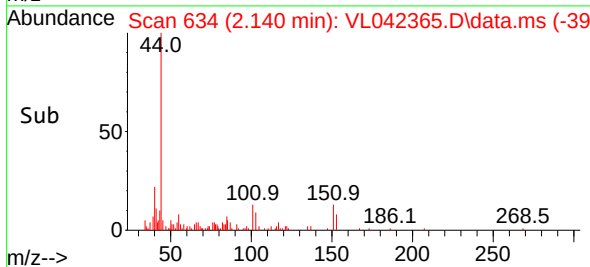
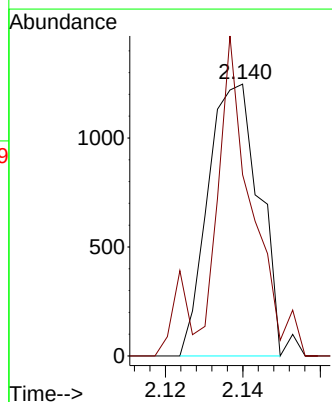
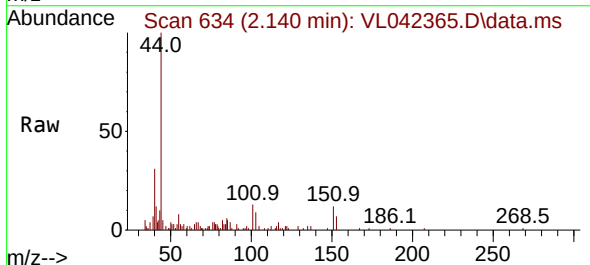
Instrument :
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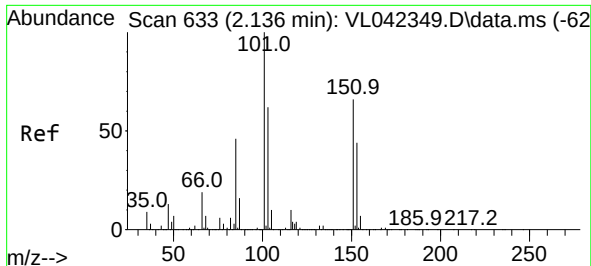
Tgt Ion: 43 Resp: 16542
 Ion Ratio Lower Upper
 43 100
 57 104.0 39.9 59.9#



#11
 Trichlorofluoromethane
 Concen: 0.056 ppbv
 RT: 2.140 min Scan# 634
 Delta R.T. 0.262 min
 Lab File: VL042365.D
 Acq: 17 Apr 2025 19:31

Tgt Ion: 101 Resp: 1142
 Ion Ratio Lower Upper
 101 100
 103 60.9 50.1 75.1

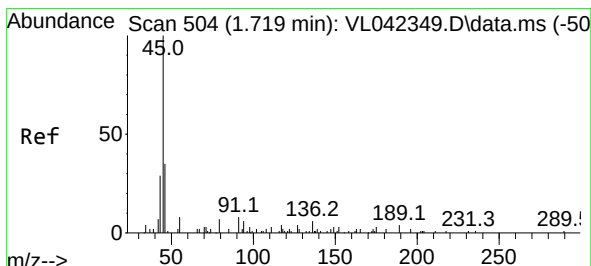
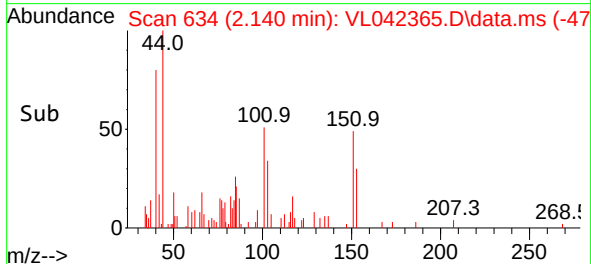
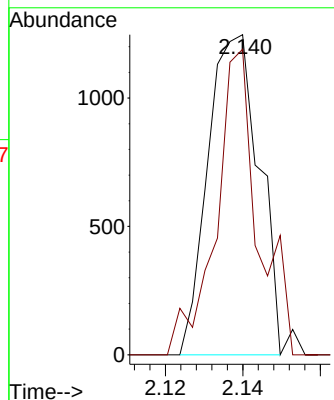
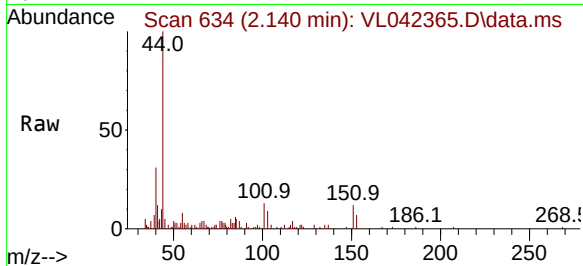




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.069 ppbv
RT: 2.140 min Scan# 611
Delta R.T. 0.004 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

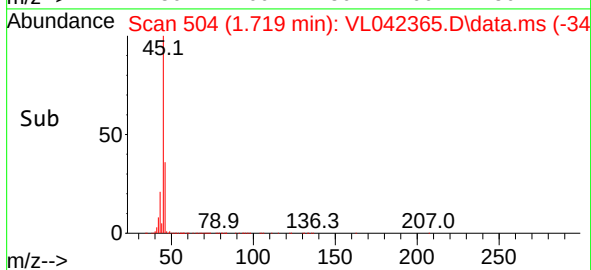
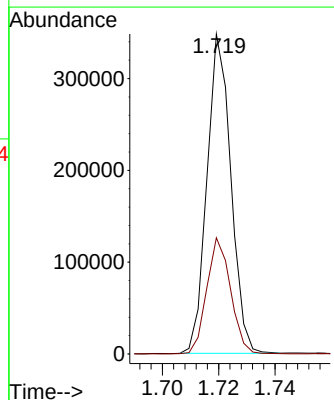
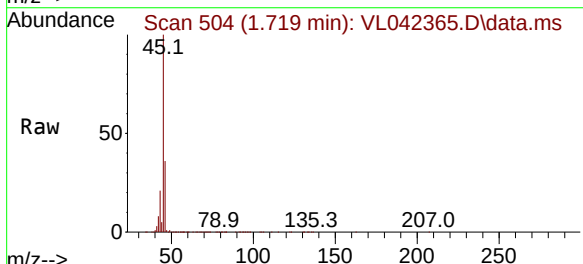
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

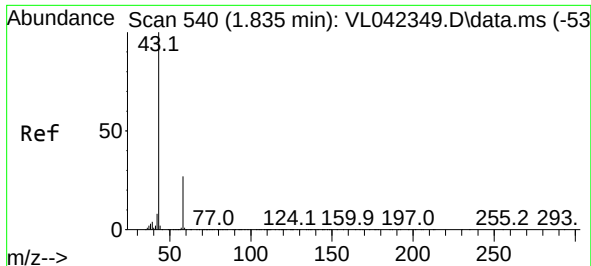
Tgt Ion:101 Resp: 1142
Ion Ratio Lower Upper
101 100
151 78.2 57.0 85.6



#13
Ethanol
Concen: 138.854 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Tgt Ion: 45 Resp: 204918
Ion Ratio Lower Upper
45 100
46 36.7 21.9 87.7





#15

Acetone

Concen: 5.365 ppbv

RT: 1.836 min Scan# 54

Delta R.T. 0.000 min

Lab File: VL042365.D

Acq: 17 Apr 2025 19:31

Instrument :

MSVOA_L

ClientSampleId :

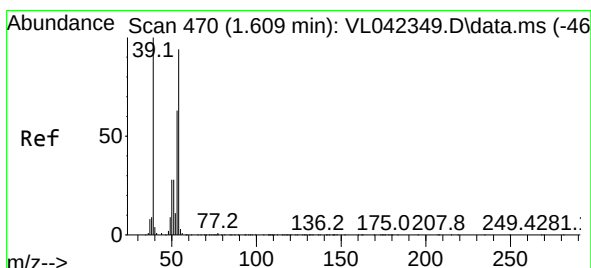
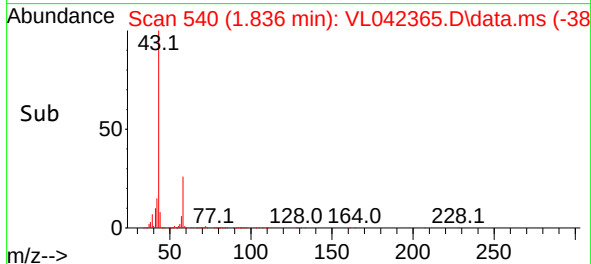
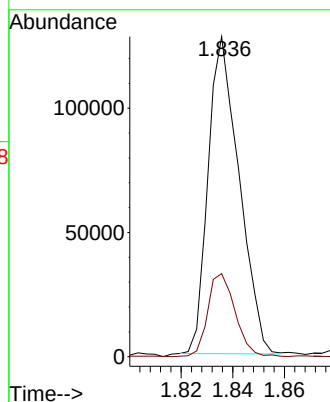
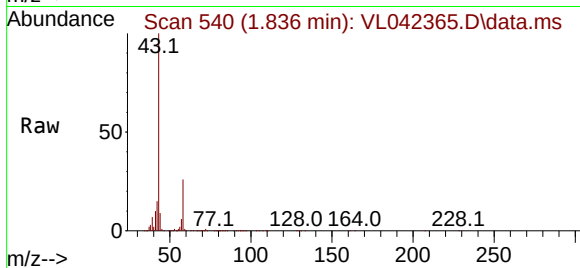
IA-B1-2-3252025

Tgt Ion: 43 Resp: 106421

Ion Ratio Lower Upper

43 100

58 23.2 22.4 33.6



#16

1,3-Butadiene

Concen: 0.556 ppbv

RT: 1.619 min Scan# 473

Delta R.T. 0.010 min

Lab File: VL042365.D

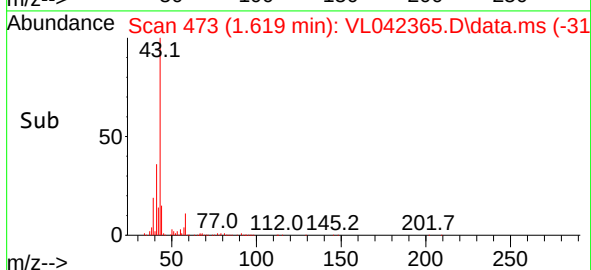
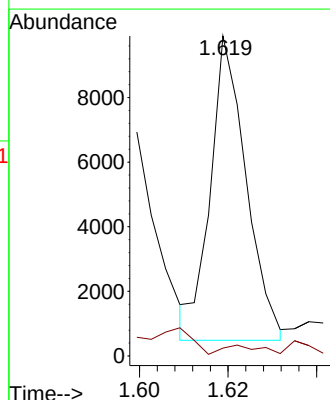
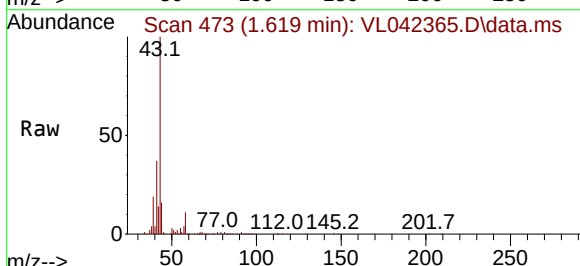
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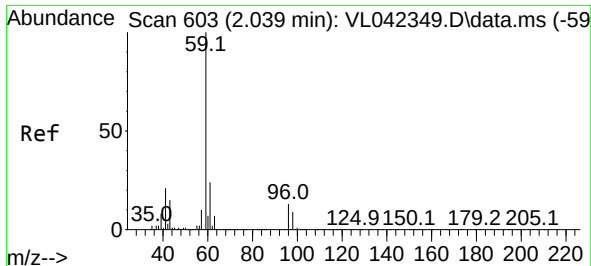
Tgt Ion: 39 Resp: 5278

Ion Ratio Lower Upper

39 100

54 28.1 64.9 97.3#

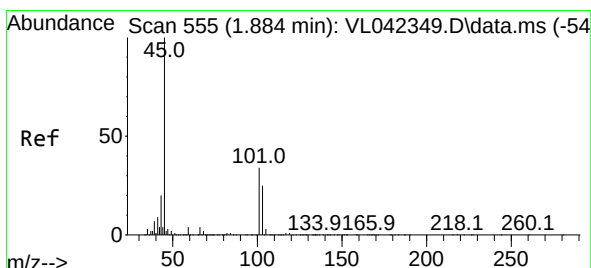
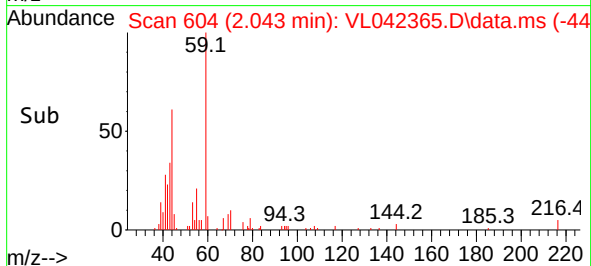
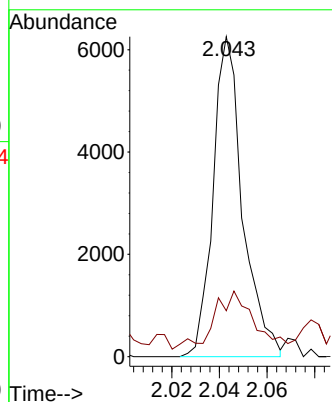
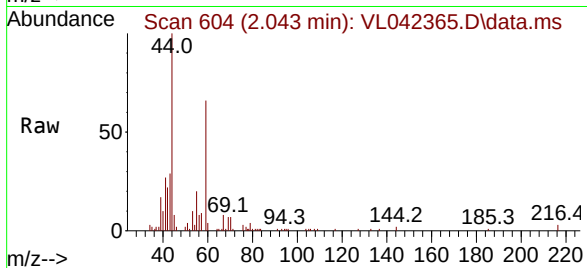




#17
tert-Butyl alcohol
Concen: 0.219 ppbv
RT: 2.043 min Scan# 603
Delta R.T. 0.004 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

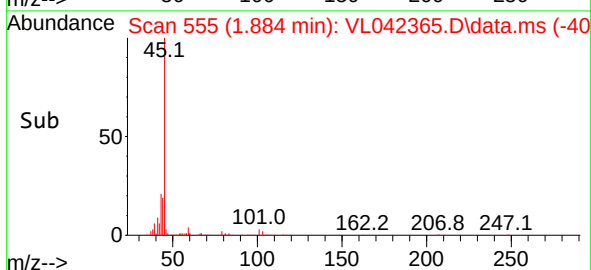
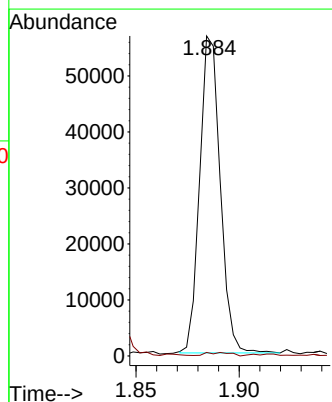
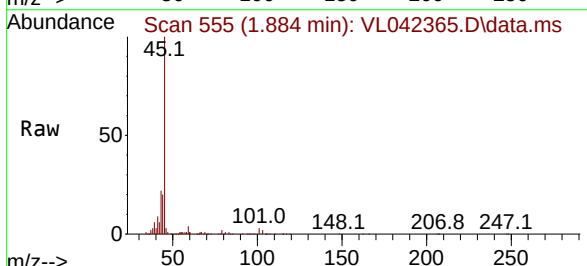
Instrument :
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ClientSampleId :
IA-B1-2-3252025

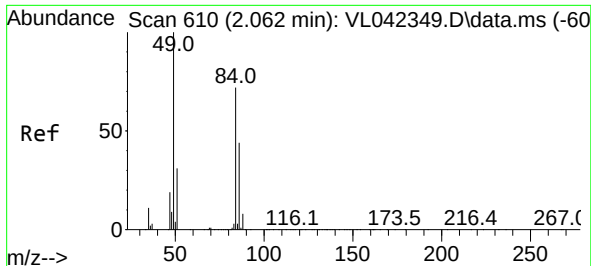
Tgt Ion: 59 Resp: 5385
Ion Ratio Lower Upper
59 100
57 24.5 8.7 13.1#



#19
Isopropyl Alcohol
Concen: 3.565 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.000 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Tgt Ion: 45 Resp: 39284
Ion Ratio Lower Upper
45 100
58 62.9 34.5 51.7#

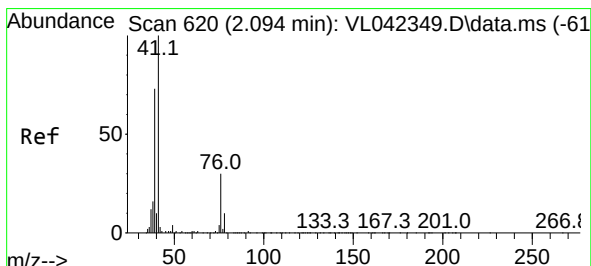
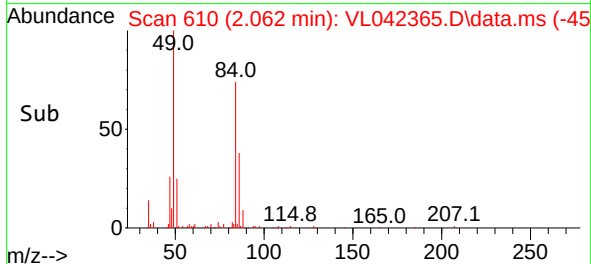
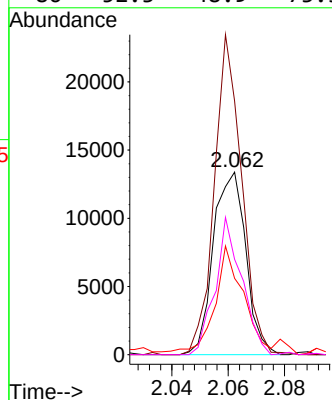
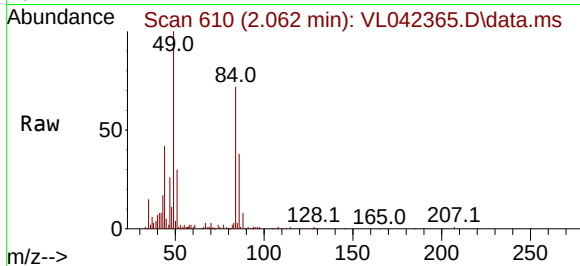




#20
Methylene Chloride
Concen: 1.379 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

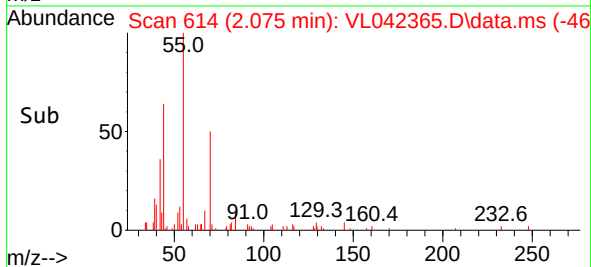
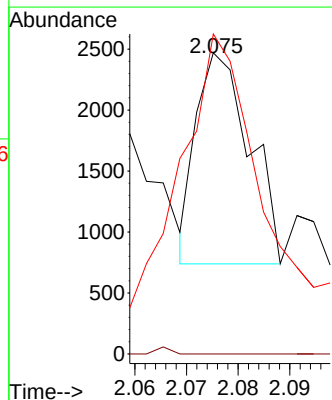
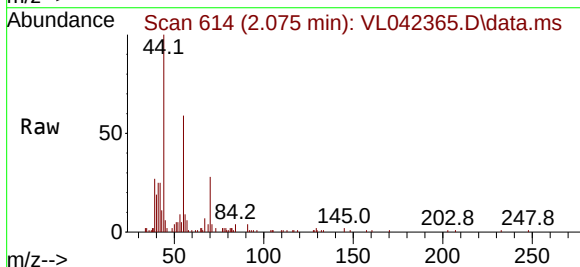
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

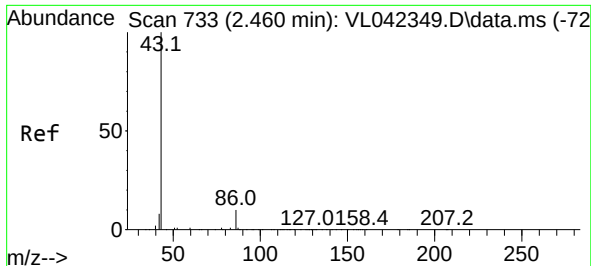
Tgt Ion: 84	Resp: 10711		
Ion	Ratio	Lower	Upper
84	100		
49	138.9	111.6	167.4
51	38.0	35.1	52.7
86	52.3	48.9	73.3



#21
Allyl Chloride
Concen: 0.091 ppbv
RT: 2.075 min Scan# 614
Delta R.T. -0.019 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Tgt Ion: 41	Resp: 1247
Ion Ratio	Lower Upper
41 100	
76 0.0	24.8 37.2#
39 176.7	60.6 90.8#

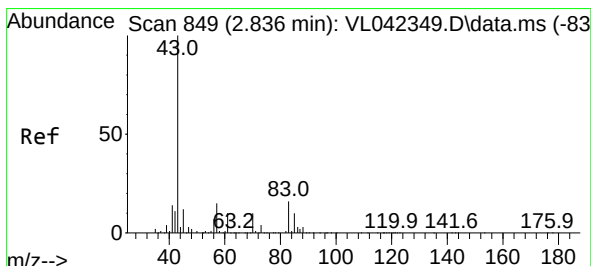
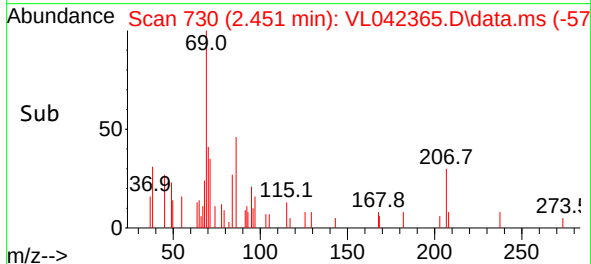
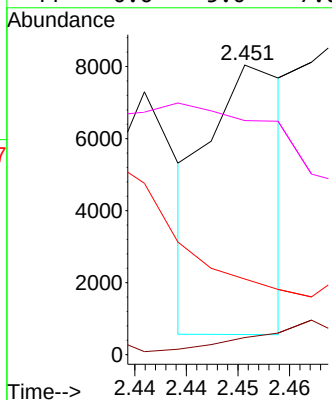
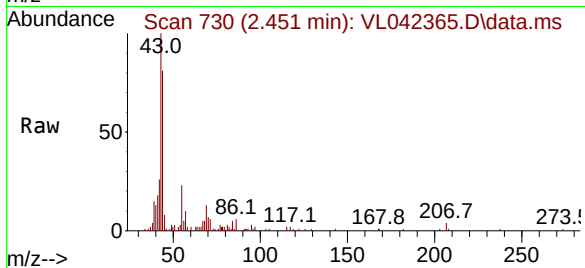




#23
 Vinyl Acetate
 Concen: 0.483 ppbv
 RT: 2.451 min Scan# 71
 Delta R.T. -0.009 min
 Lab File: VL042365.D
 Acq: 17 Apr 2025 19:31

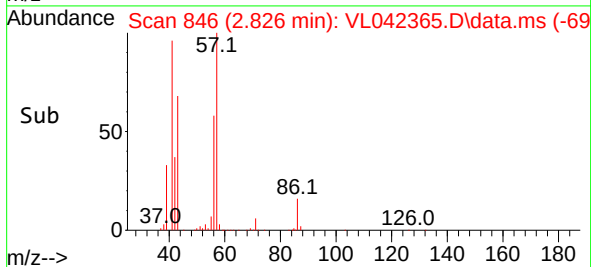
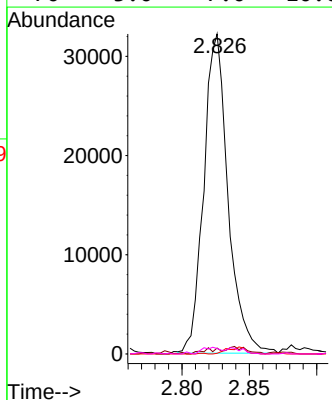
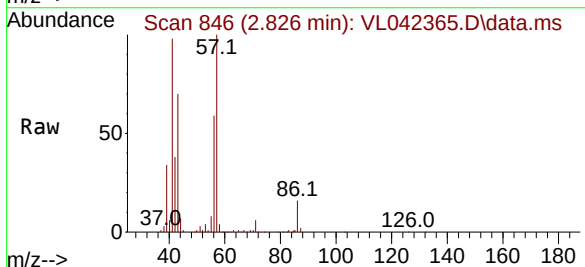
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B1-2-3252025

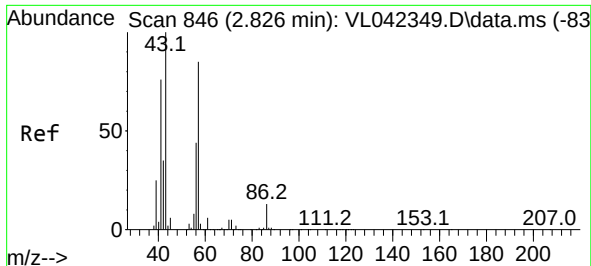
Tgt Ion:	43	Resp:	3880
Ion	Ratio	Lower	Upper
43	100		
86	11.8	6.5	9.7#
42	10.7	7.8	11.8
44	0.6	5.0	7.6#



#25
 Ethyl Acetate
 Concen: 0.825 ppbv
 RT: 2.826 min Scan# 846
 Delta R.T. -0.009 min
 Lab File: VL042365.D
 Acq: 17 Apr 2025 19:31

Tgt Ion:	43	Resp:	40360
Ion	Ratio	Lower	Upper
43	100		
45	4.1	8.3	12.5#
61	1.8	7.3	10.9#
70	3.0	7.0	10.6#

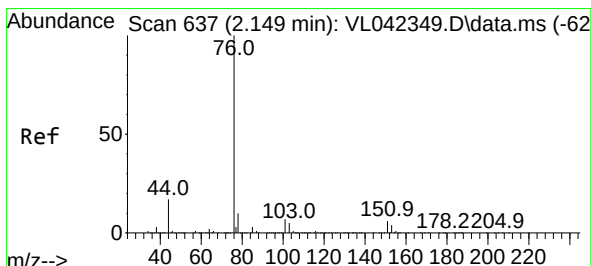
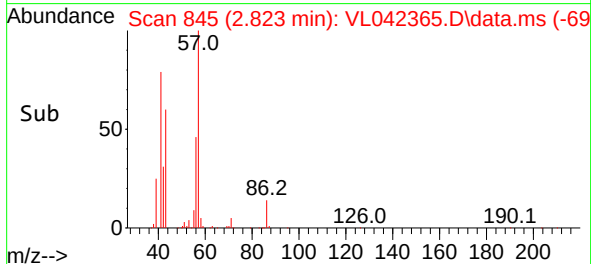
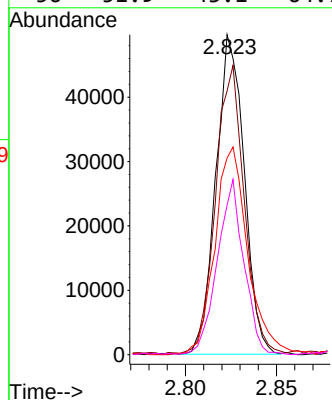
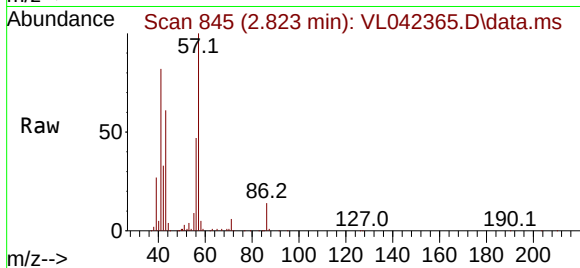




#26
Hexane
Concen: 2.707 ppbv
RT: 2.823 min Scan# 846
Delta R.T. -0.003 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

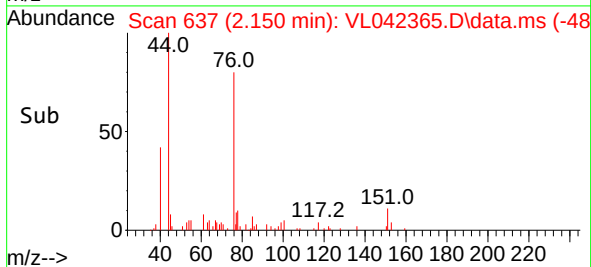
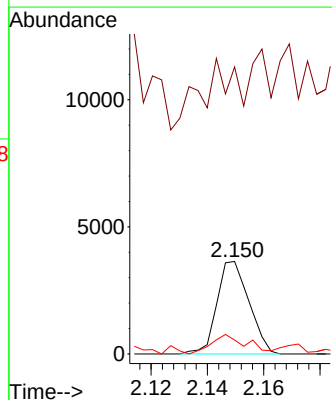
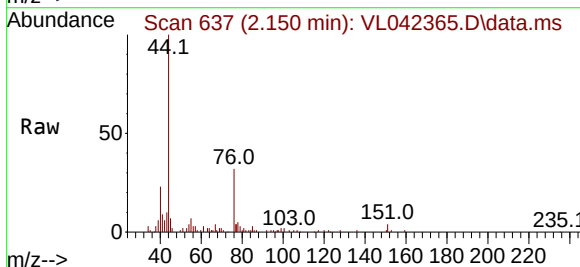
Instrument : MSVOA_L
ClientSampleId : IA-B1-2-3252025

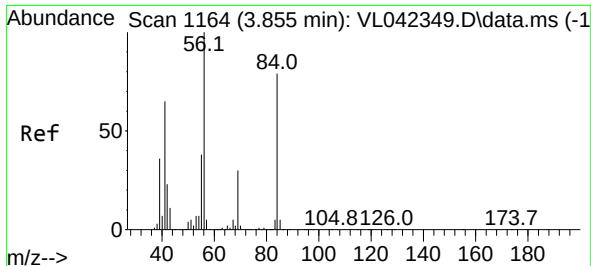
Tgt Ion:	57	Resp:	53574
Ion	Ratio	Lower	Upper
57	100		
41	92.2	77.9	116.9
43	78.1	208.4	312.6#
56	51.9	43.1	64.7



#27
Carbon Disulfide
Concen: 0.136 ppbv
RT: 2.150 min Scan# 637
Delta R.T. 0.000 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Tgt Ion:	76	Resp:	2882
Ion	Ratio	Lower	Upper
76	100		
44	0.0	15.5	23.3#
78	23.0	9.3	13.9#

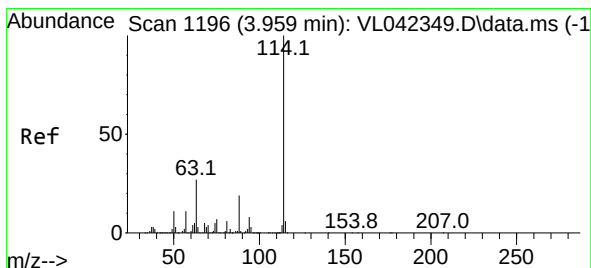
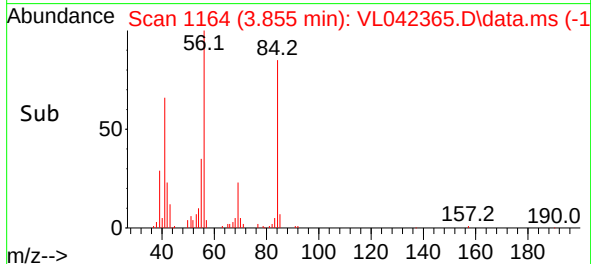
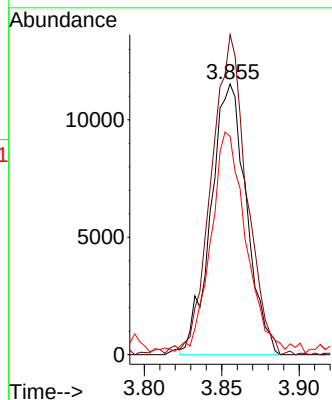
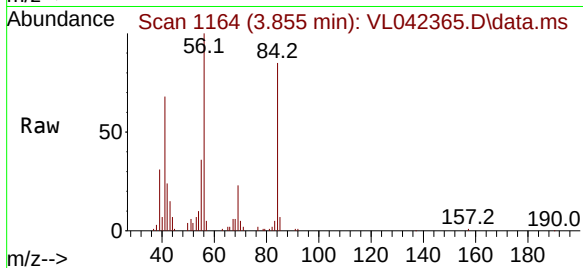




#30
Cyclohexane
Concen: 1.145 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. 0.000 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

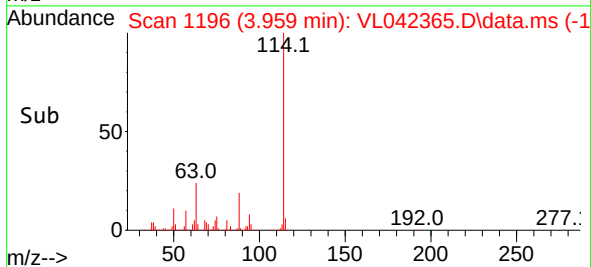
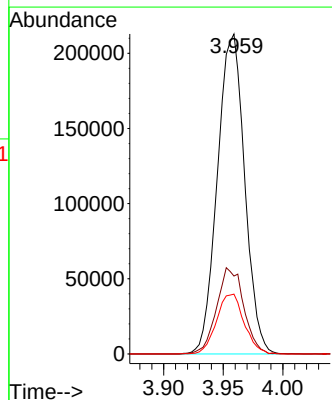
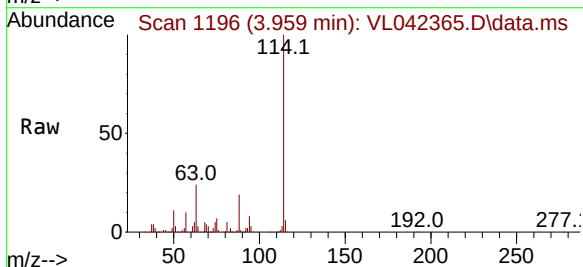
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

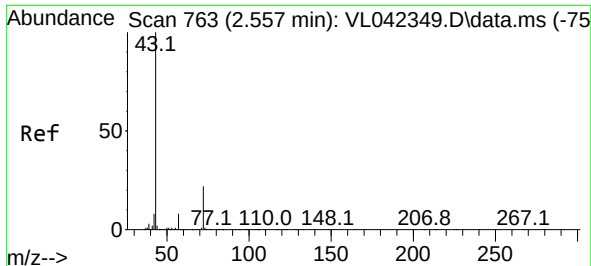
Tgt Ion: 84 Resp: 18328
Ion Ratio Lower Upper
84 100
56 119.0 101.0 151.4
41 83.7 67.4 101.0



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. 0.000 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Tgt Ion: 114 Resp: 339124
Ion Ratio Lower Upper
114 100
63 26.8 21.8 32.6
88 18.9 15.5 23.3

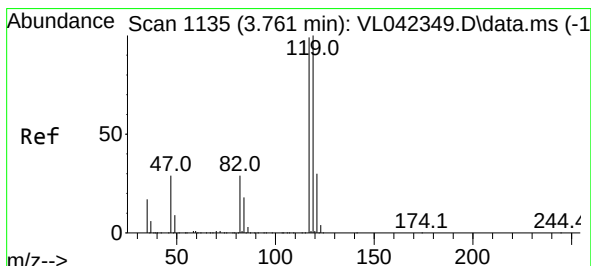
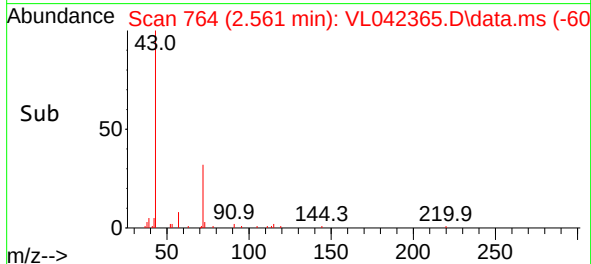
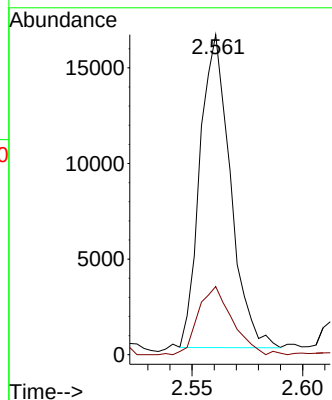
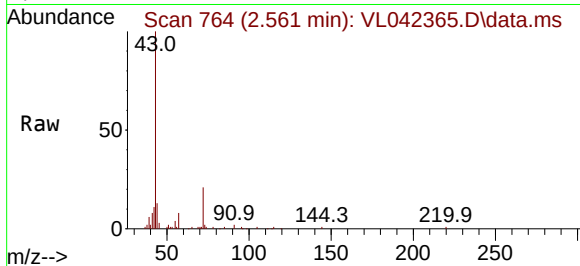




#34
2-Butanone
Concen: 0.584 ppbv
RT: 2.561 min Scan# 764
Delta R.T. 0.004 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

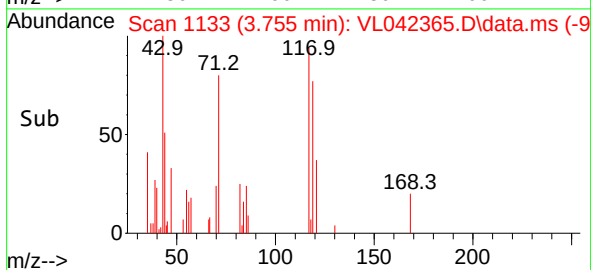
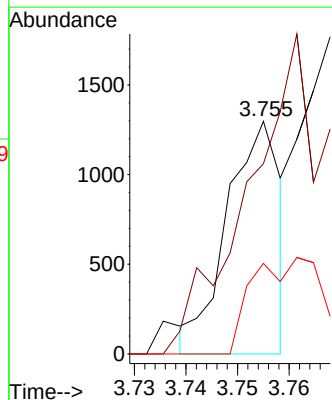
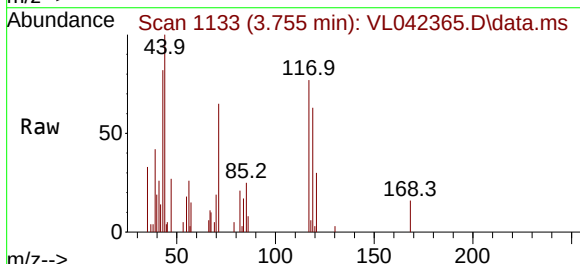
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

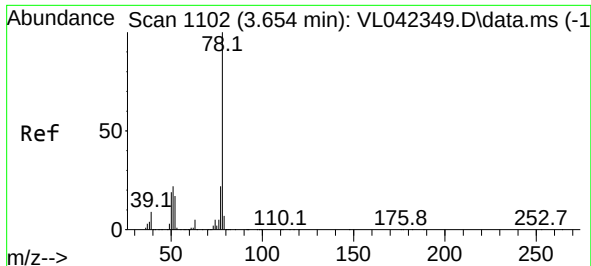
Tgt Ion: 43 Resp: 15661
Ion Ratio Lower Upper
43 100
72 25.5 18.2 27.2



#35
Carbon Tetrachloride
Concen: 0.030 ppbv
RT: 3.755 min Scan# 1133
Delta R.T. -0.006 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Tgt Ion: 117 Resp: 934
Ion Ratio Lower Upper
117 100
119 81.7 80.5 120.7
121 44.2 24.2 36.2#

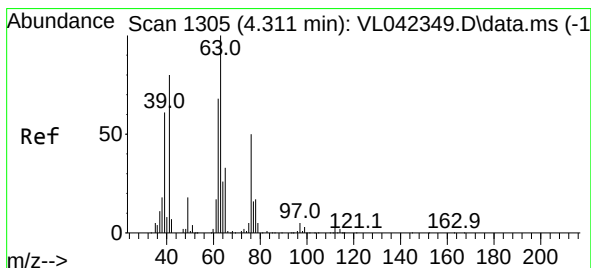
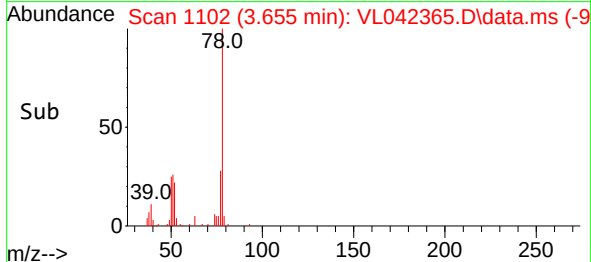
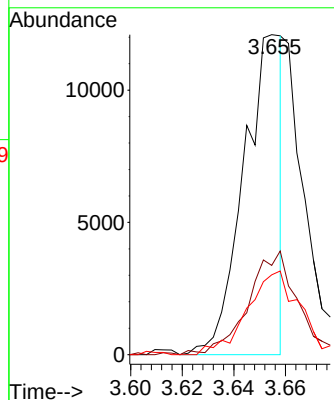
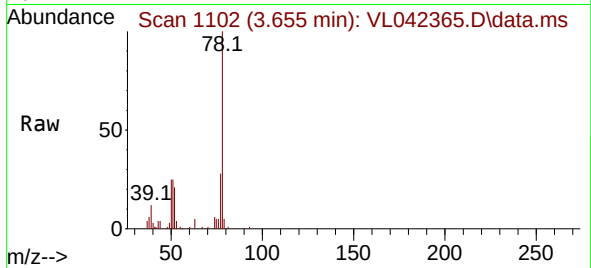




#36
Benzene
Concen: 0.342 ppbv
RT: 3.655 min Scan# 1102
Delta R.T. 0.000 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

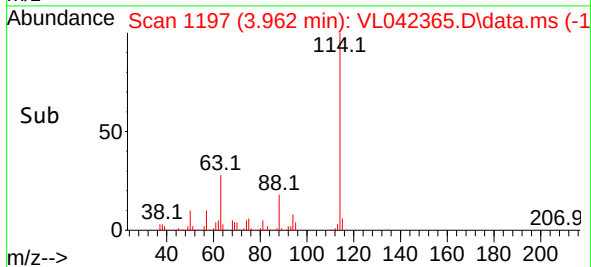
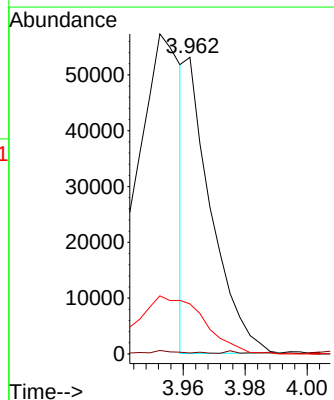
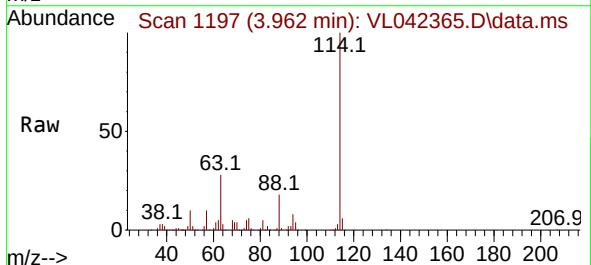
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

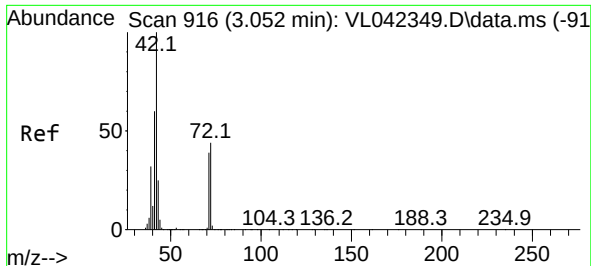
Tgt Ion: 78 Resp: 12500
Ion Ratio Lower Upper
78 100
77 27.9 17.4 26.0#
50 25.0 15.5 23.3#



#39
1,2-Dichloropropane
Concen: 2.239 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. -0.349 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Tgt Ion: 63 Resp: 30515
Ion Ratio Lower Upper
63 100
41 0.2 64.2 96.2#
62 17.0 54.3 81.5#

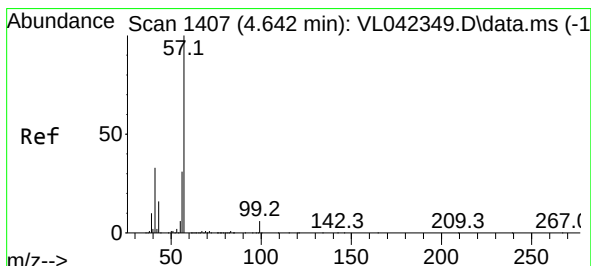
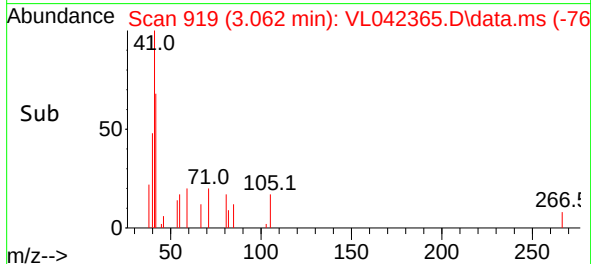
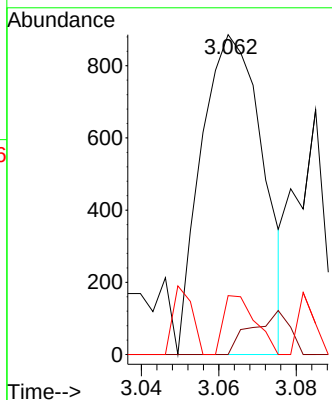
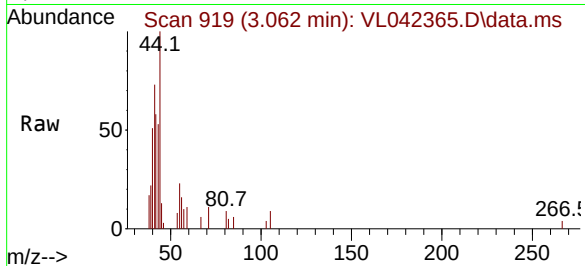




#41
Tetrahydrofuran
Concen: 0.063 ppbv
RT: 3.062 min Scan# 916
Delta R.T. 0.010 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

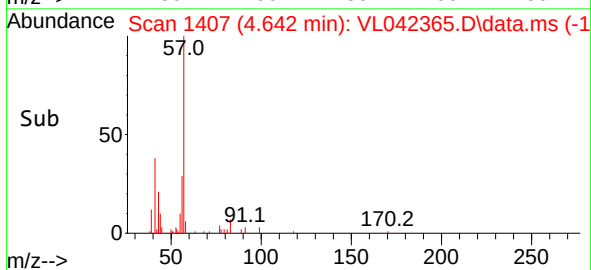
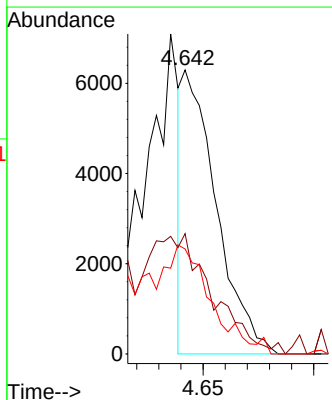
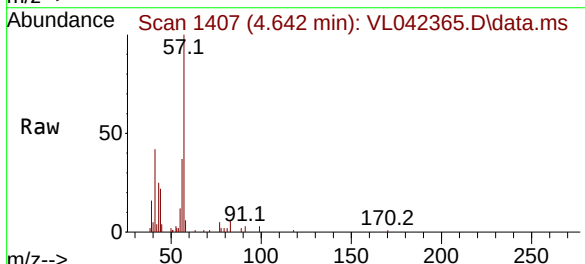
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

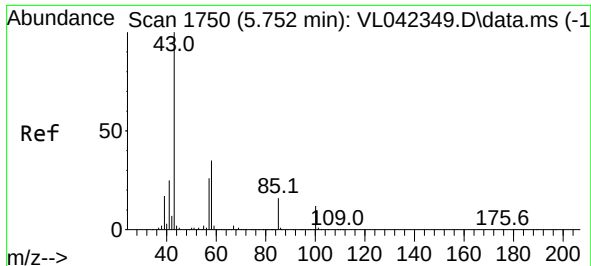
Tgt Ion:	42	Resp:	979
Ion	Ratio	Lower	Upper
42	100		
72	0.0	32.3	48.5#
71	21.3	31.4	47.2#



#44
2,2,4-Trimethylpentane
Concen: 0.106 ppbv
RT: 4.642 min Scan# 1407
Delta R.T. 0.000 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Tgt Ion:	57	Resp:	6713
Ion	Ratio	Lower	Upper
57	100		
41	80.2	27.2	40.8#
56	66.3	25.7	38.5#





#50

4-Methyl-2-Pentanone

Concen: 11.689 ppbv

RT: 5.746 min Scan# 1

Delta R.T. -0.006 min

Lab File: VL042365.D

Acq: 17 Apr 2025 19:31

Instrument :

MSVOA_L

ClientSampleId :

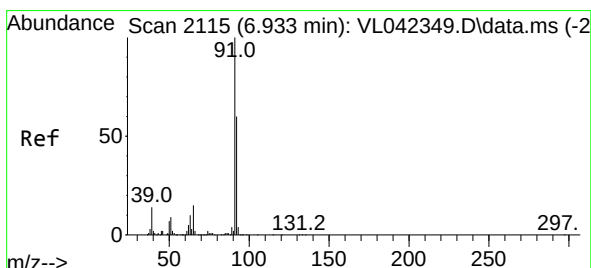
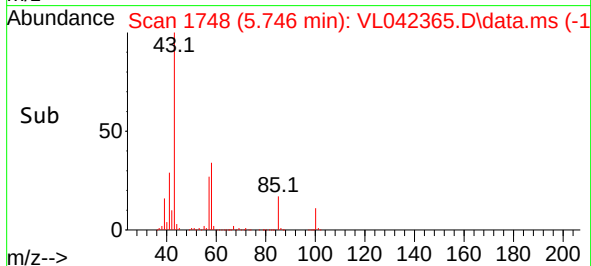
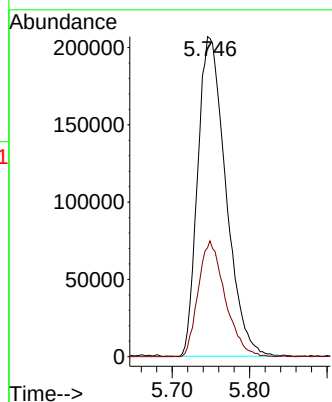
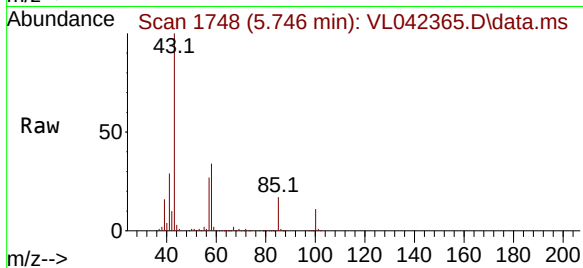
IA-B1-2-3252025

Tgt Ion: 43 Resp: 520966

Ion Ratio Lower Upper

43 100

58 34.7 28.6 43.0



#53

Toluene

Concen: 1.398 ppbv

RT: 6.930 min Scan# 2114

Delta R.T. -0.003 min

Lab File: VL042365.D

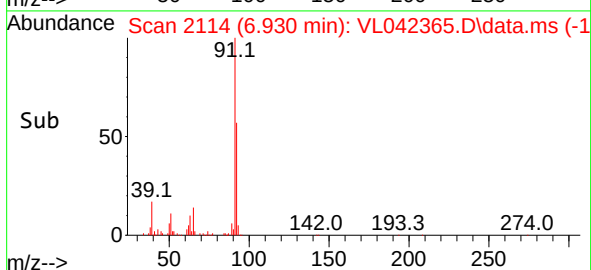
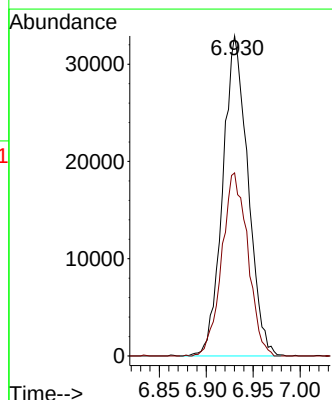
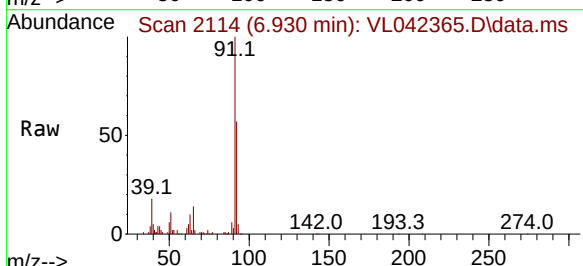
Acq: 17 Apr 2025 19:31

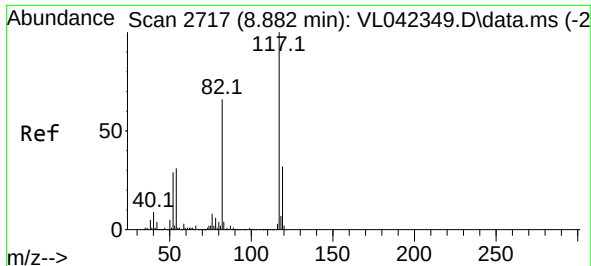
Tgt Ion: 91 Resp: 61358

Ion Ratio Lower Upper

91 100

92 58.9 48.2 72.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.879 min Scan# 2716

Delta R.T. -0.003 min

Lab File: VL042365.D

Acq: 17 Apr 2025 19:31

Instrument :

MSVOA_L

ClientSampleId :

IA-B1-2-3252025

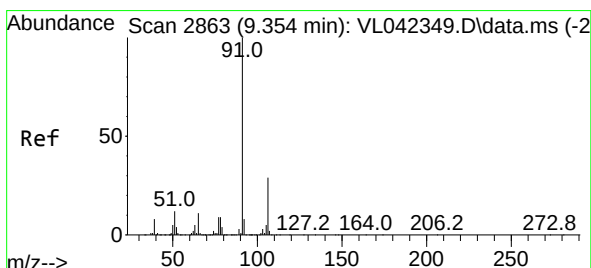
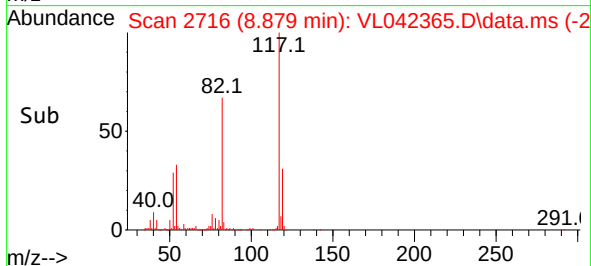
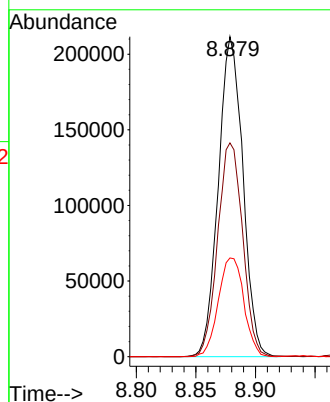
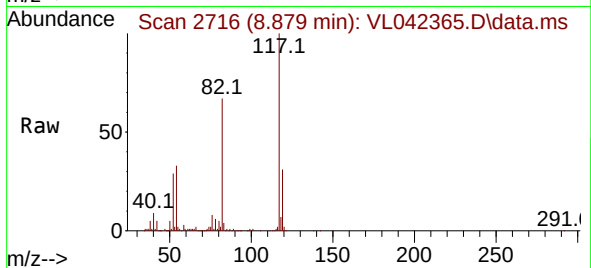
Tgt Ion:117 Resp: 302443

Ion Ratio Lower Upper

117 100

82 67.9 57.8 86.6

119 32.1 25.2 37.8



#58

Ethyl Benzene

Concen: 0.951 ppbv

RT: 9.354 min Scan# 2863

Delta R.T. 0.000 min

Lab File: VL042365.D

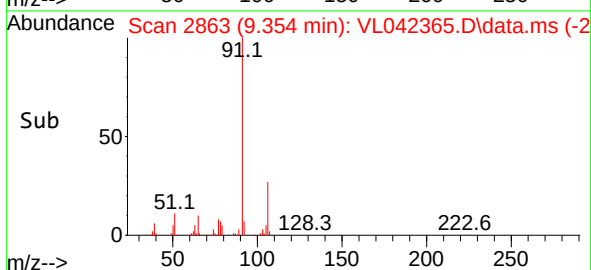
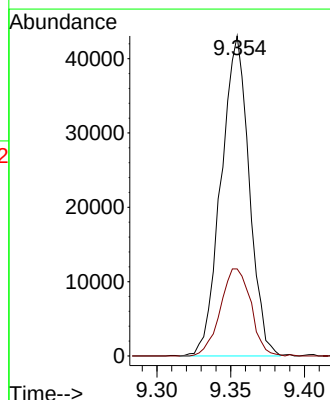
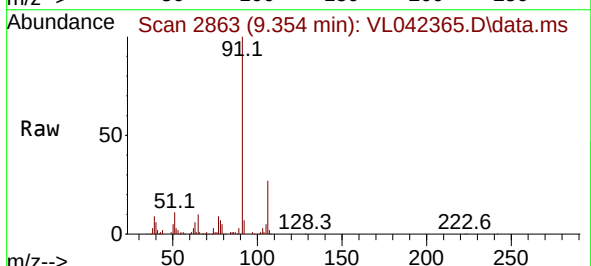
Acq: 17 Apr 2025 19:31

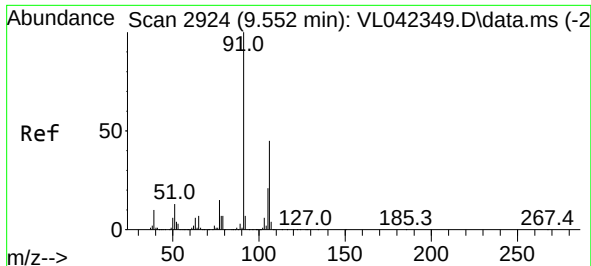
Tgt Ion: 91 Resp: 56996

Ion Ratio Lower Upper

91 100

106 27.2 23.0 34.4





#59

m/p-Xylene

Concen: 5.949 ppbv

RT: 9.529 min Scan# 2917

Delta R.T. -0.022 min

Lab File: VL042365.D

Acq: 17 Apr 2025 19:31

Instrument :

MSVOA_L

ClientSampleId :

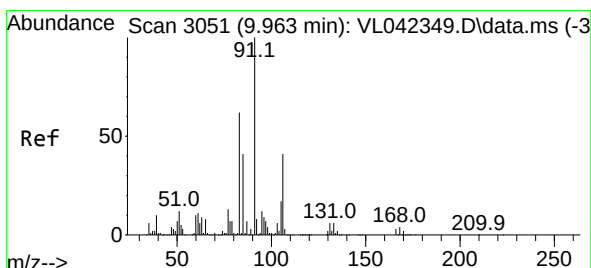
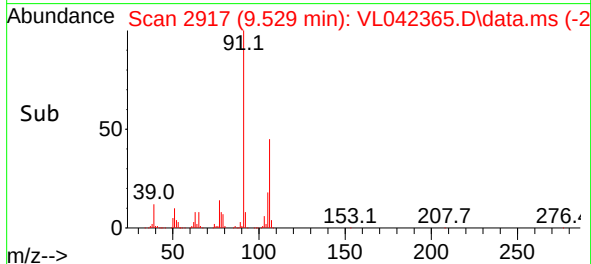
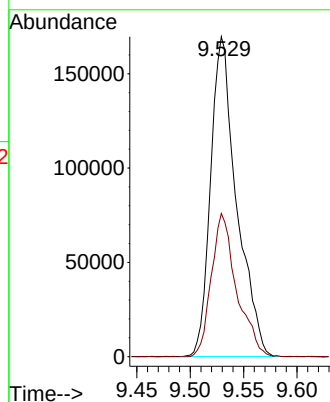
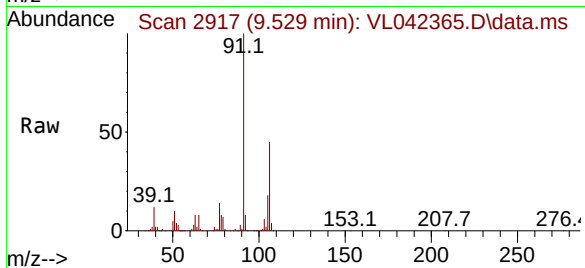
IA-B1-2-3252025

Tgt Ion: 91 Resp: 287156

Ion Ratio Lower Upper

91 100

106 43.5 35.4 53.2



#60

o-Xylene

Concen: 2.264 ppbv

RT: 9.960 min Scan# 3050

Delta R.T. -0.003 min

Lab File: VL042365.D

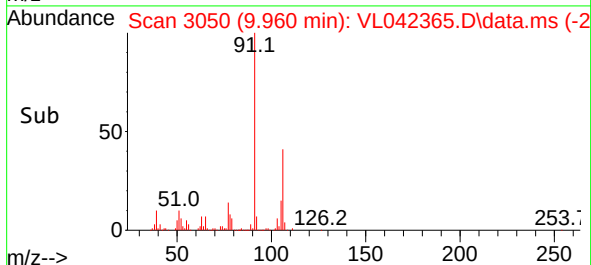
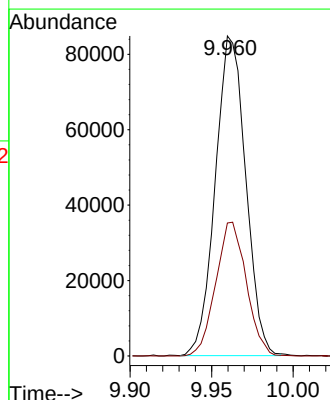
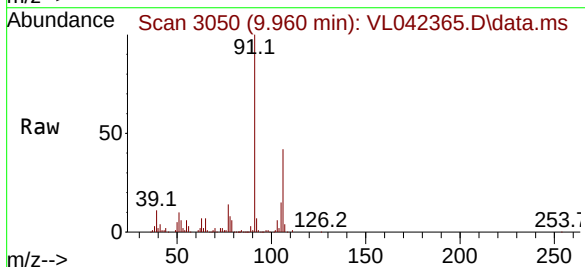
Acq: 17 Apr 2025 19:31

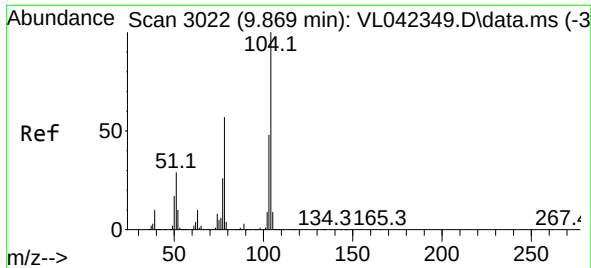
Tgt Ion: 91 Resp: 110047

Ion Ratio Lower Upper

91 100

106 42.0 21.1 63.4

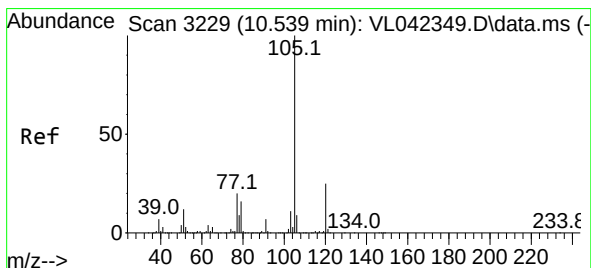
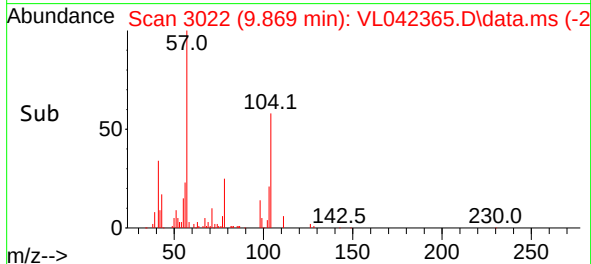
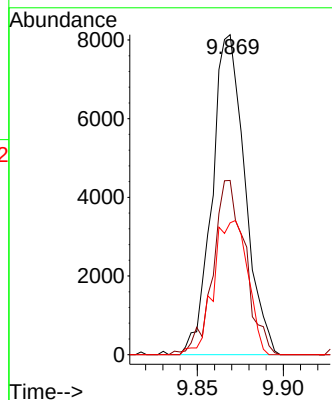
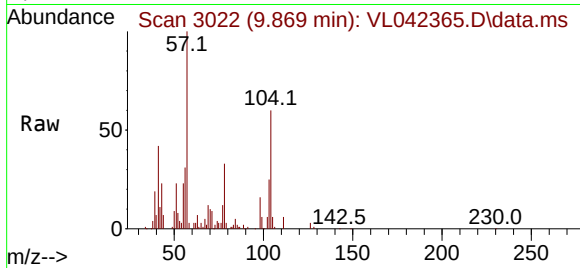




#61
Styrene
Concen: 0.465 ppbv
RT: 9.869 min Scan# 3022
Delta R.T. 0.000 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

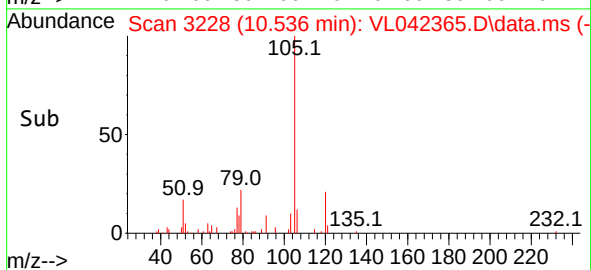
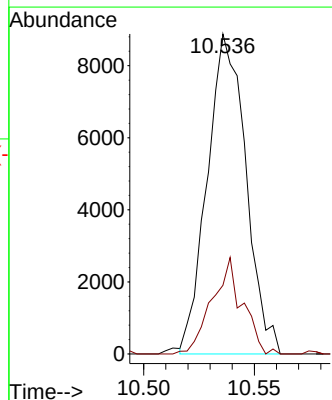
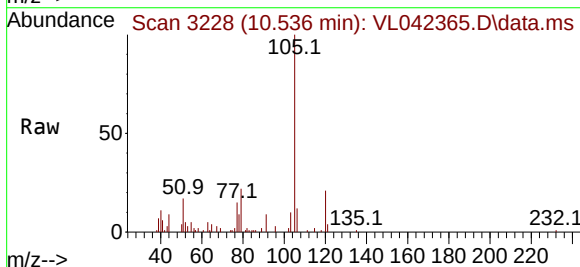
Instrument :
MSVOA_1
ClientSampleId :
IA-B1-2-3252025

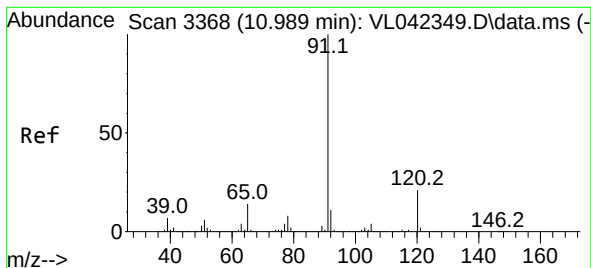
Tgt Ion:104 Resp: 10782
Ion Ratio Lower Upper
104 100
78 53.3 44.6 66.8
103 44.0 37.4 56.0



#62
Isopropylbenzene
Concen: 0.151 ppbv
RT: 10.536 min Scan# 3228
Delta R.T. -0.003 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Tgt Ion:105 Resp: 10773
Ion Ratio Lower Upper
105 100
120 23.9 19.8 29.8





#64

n-propylbenzene

Concen: 0.625 ppbv

RT: 10.989 min Scan# 31

Delta R.T. 0.000 min

Lab File: VL042365.D

Acq: 17 Apr 2025 19:31

Instrument :

MSVOA_L

ClientSampleId :

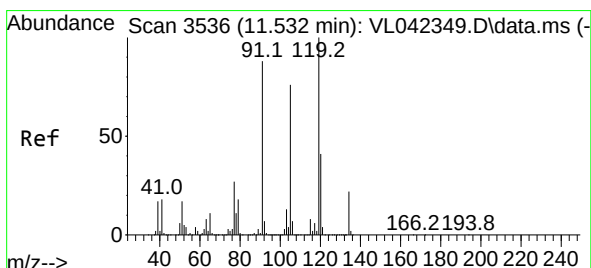
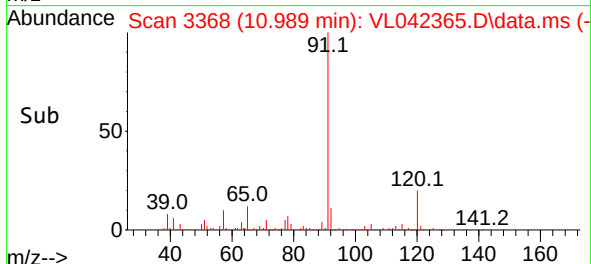
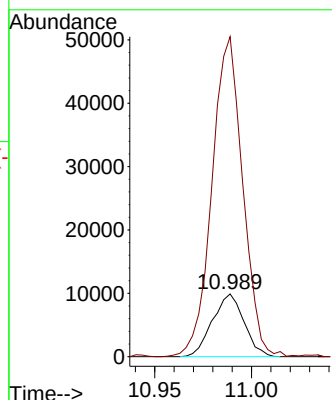
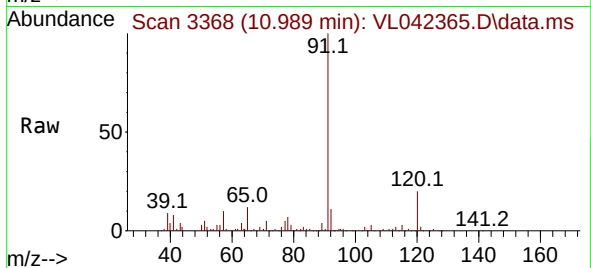
IA-B1-2-3252025

Tgt Ion:120 Resp: 11220

Ion Ratio Lower Upper

120 100

91 501.5 392.4 588.6



#65

tert-Butylbenzene

Concen: 0.527 ppbv

RT: 11.533 min Scan# 3536

Delta R.T. 0.000 min

Lab File: VL042365.D

Acq: 17 Apr 2025 19:31

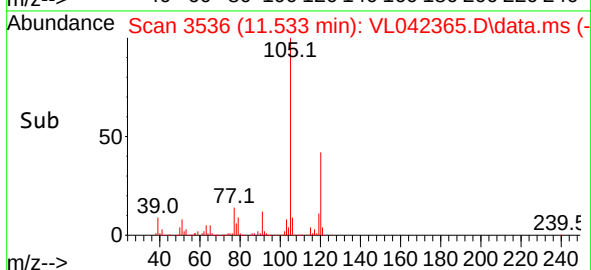
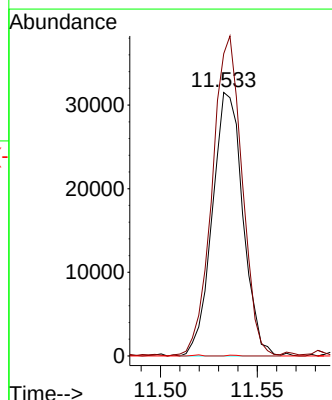
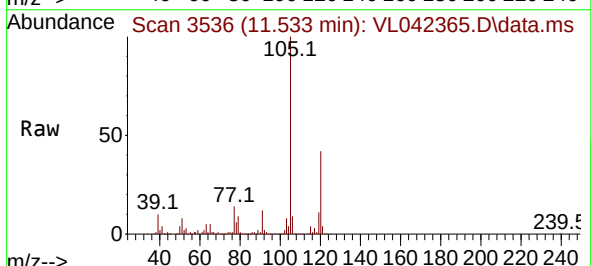
Tgt Ion:119 Resp: 34565

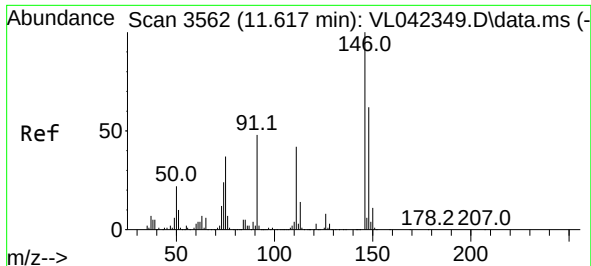
Ion Ratio Lower Upper

119 100

91 119.5 74.6 111.8#

134 0.0 18.8 28.2#

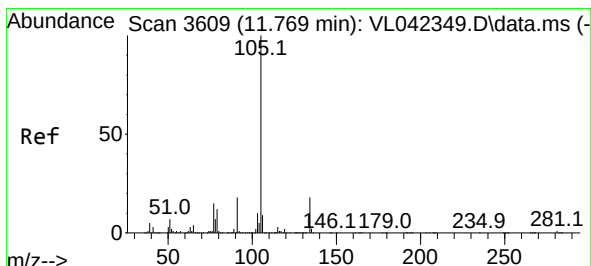
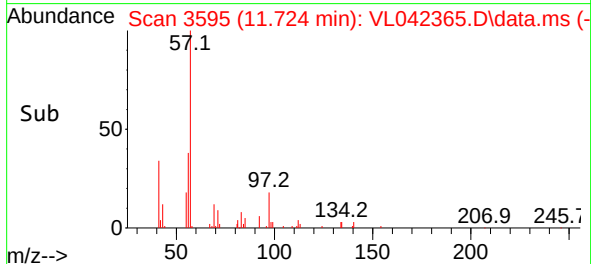
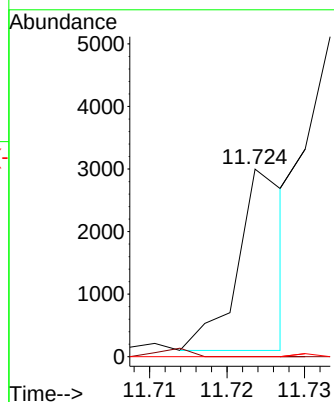
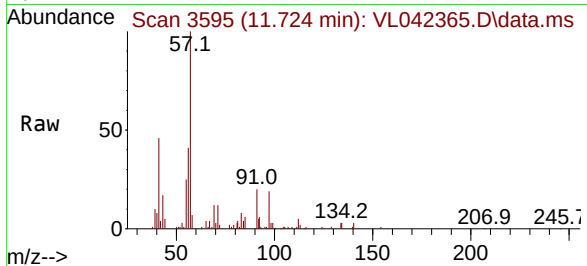




#66
Benzyl Chloride
Concen: 0.176 ppbv
RT: 11.724 min Scan# 3595
Delta R.T. 0.107 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

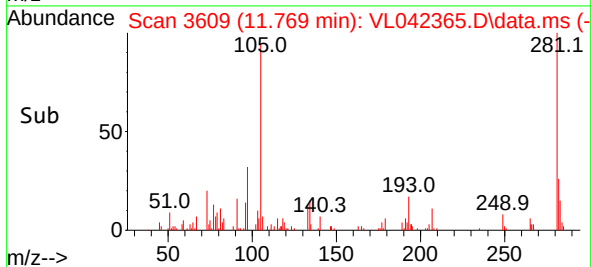
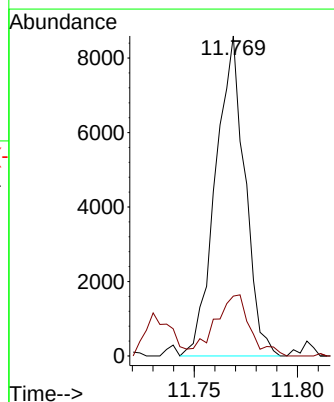
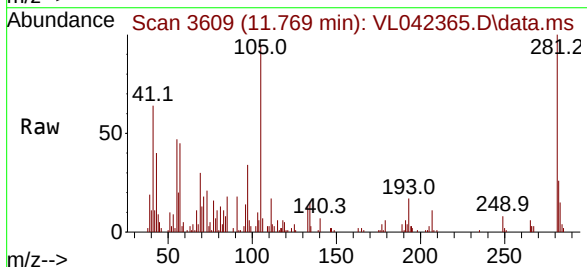
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

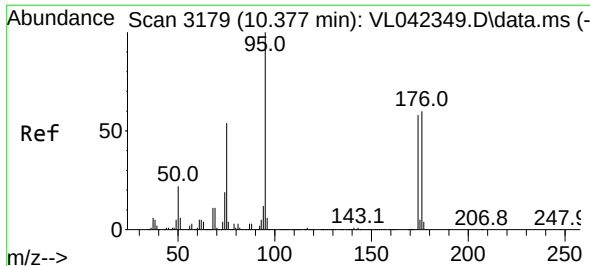
Tgt Ion: 91 Resp: 1267
Ion Ratio Lower Upper
91 100
126 0.0 11.8 17.6#
128 0.0 4.5 6.7#



#67
sec-Butylbenzene
Concen: 0.093 ppbv
RT: 11.769 min Scan# 3609
Delta R.T. 0.000 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Tgt Ion: 105 Resp: 8497
Ion Ratio Lower Upper
105 100
134 22.2 14.6 21.8#

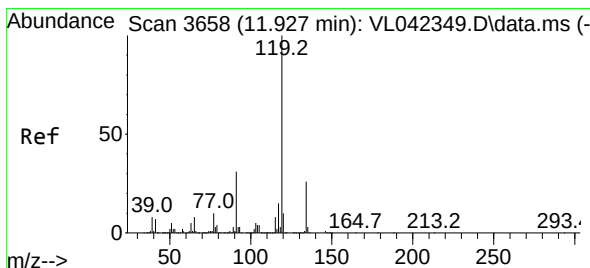
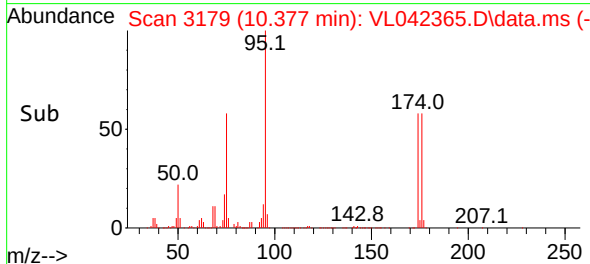
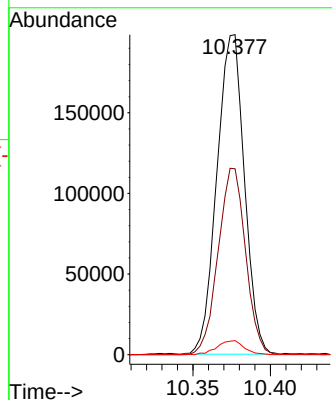
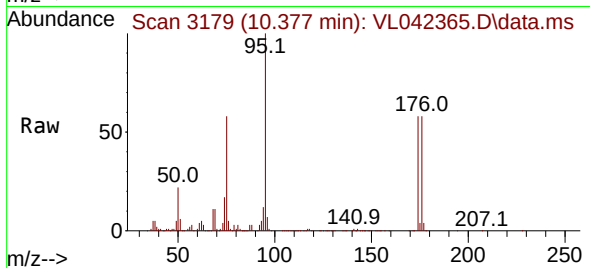




#68
1-Bromo-4-Fluorobenzene
Concen: 9.863 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.000 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

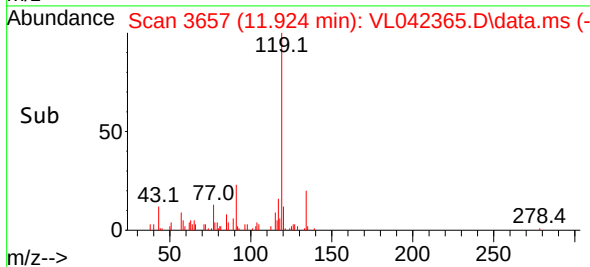
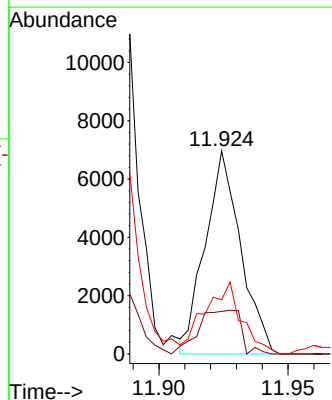
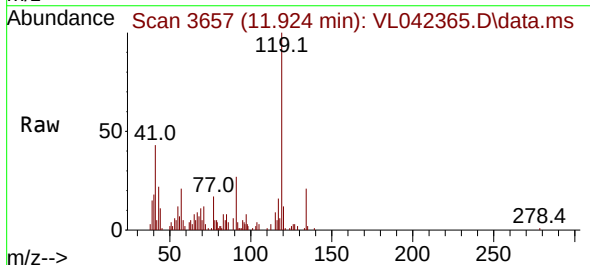
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

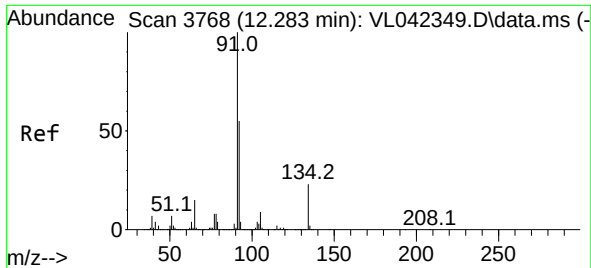
Tgt Ion: 95 Resp: 245115
Ion Ratio Lower Upper
95 100
174 58.1 48.5 72.7
175 4.3 3.7 5.5



#69
p-Isopropyltoluene
Concen: 0.084 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. -0.003 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Tgt Ion: 119 Resp: 6656
Ion Ratio Lower Upper
119 100
134 25.2 20.0 30.0
91 36.9 24.4 36.6#

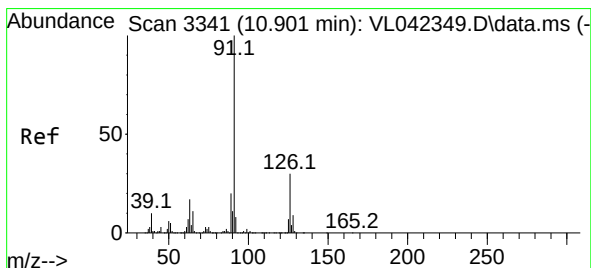
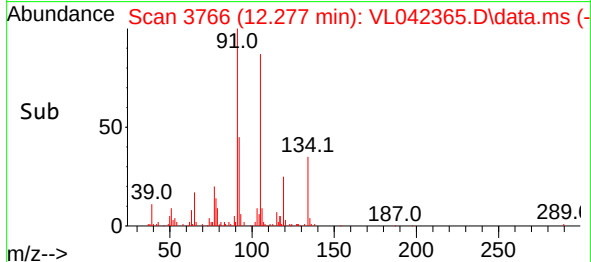
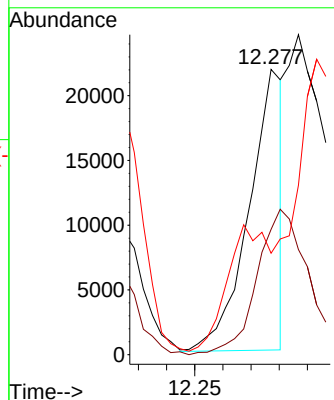
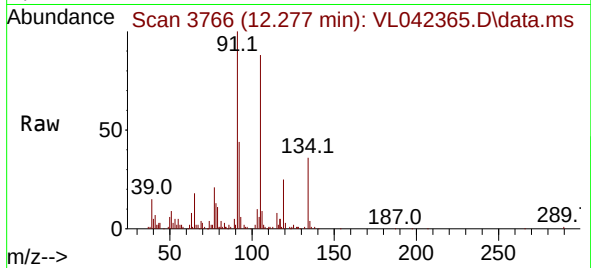




#70
n-Butylbenzene
Concen: 0.218 ppbv
RT: 12.277 min Scan# 31
Delta R.T. -0.006 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

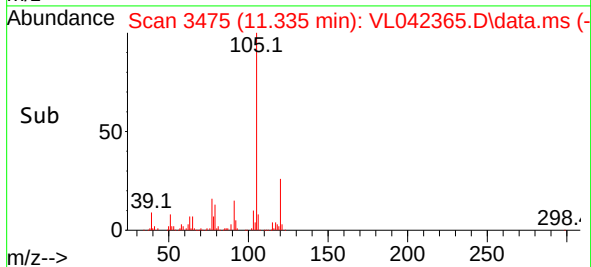
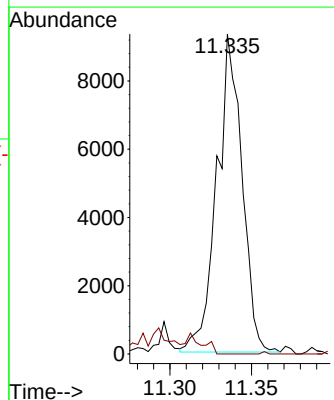
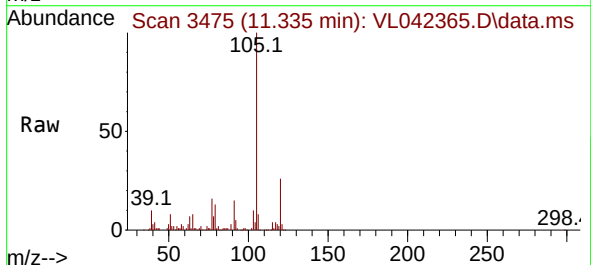
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-2-3252025

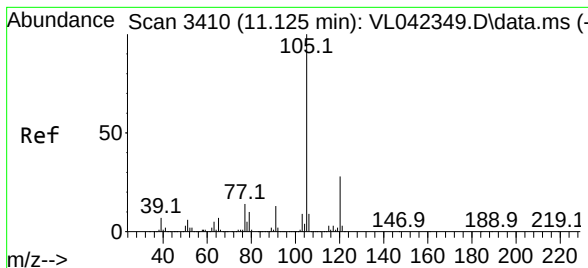
Tgt Ion: 91 Resp: 17980
Ion Ratio Lower Upper
91 100
92 77.5 44.2 66.4#
134 0.0 18.2 27.4#



#71
2-Chlorotoluene
Concen: 0.179 ppbv
RT: 11.335 min Scan# 3475
Delta R.T. 0.434 min
Lab File: VL042365.D
Acq: 17 Apr 2025 19:31

Tgt Ion: 91 Resp: 10005
Ion Ratio Lower Upper
91 100
126 14.7 11.4 45.4





#72

4-Ethyltoluene

Concen: 1.306 ppbv

RT: 11.125 min Scan# 3410

Delta R.T. 0.000 min

Lab File: VL042365.D

Acq: 17 Apr 2025 19:31

Instrument :

MSVOA_L

ClientSampleId :

LA-B1-2-3252025

Tgt Ion:105 Resp: 77634

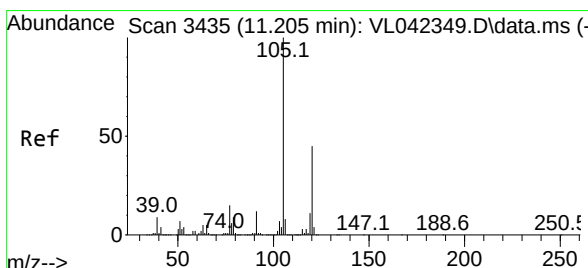
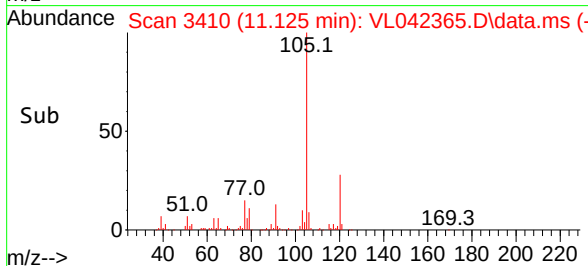
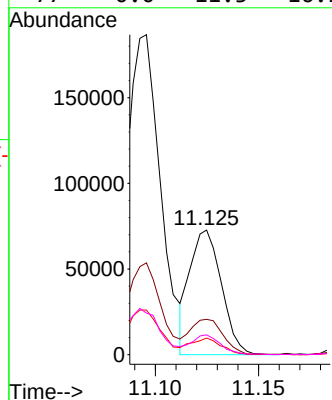
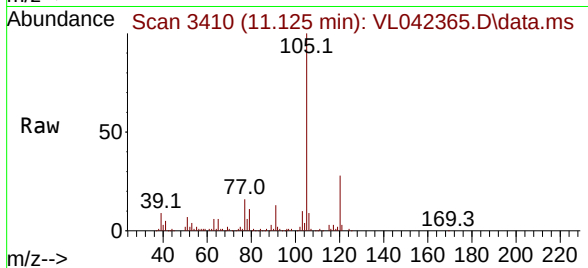
Ion Ratio Lower Upper

105 100

120 0.0 23.2 34.8#

91 0.0 10.4 15.6#

77 0.0 11.3 16.9#



#73

1,3,5-Trimethylbenzene

Concen: 1.764 ppbv

RT: 11.203 min Scan# 3434

Delta R.T. -0.003 min

Lab File: VL042365.D

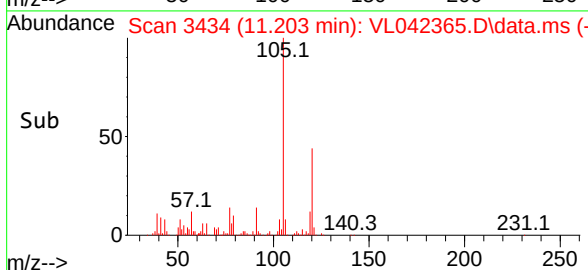
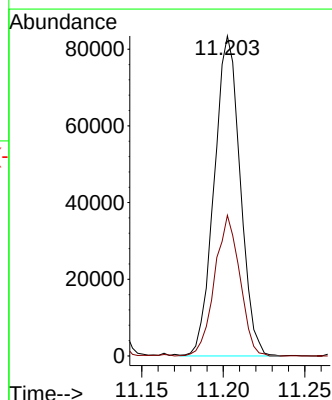
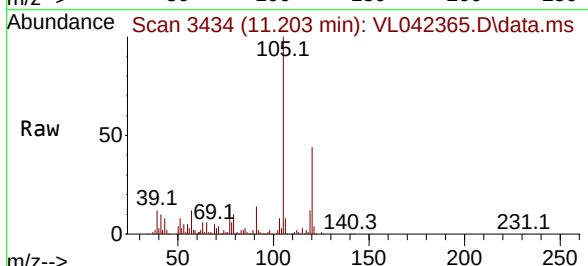
Acq: 17 Apr 2025 19:31

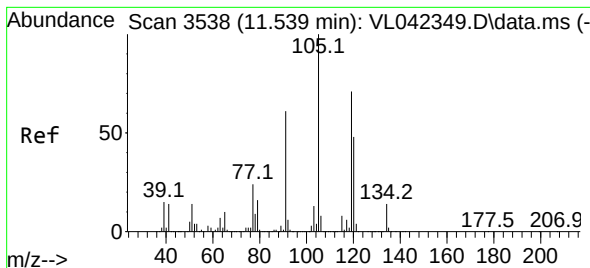
Tgt Ion:105 Resp: 92546

Ion Ratio Lower Upper

105 100

120 43.9 35.6 53.4





#74

1,2,4-Trimethylbenzene

Concen: 5.391 ppbv

RT: 11.536 min Scan# 3538

Delta R.T. -0.003 min

Lab File: VL042365.D

Acq: 17 Apr 2025 19:31

Instrument :

MSVOA_L

ClientSampleId :

IA-B1-2-3252025

Tgt Ion:105 Resp: 330358

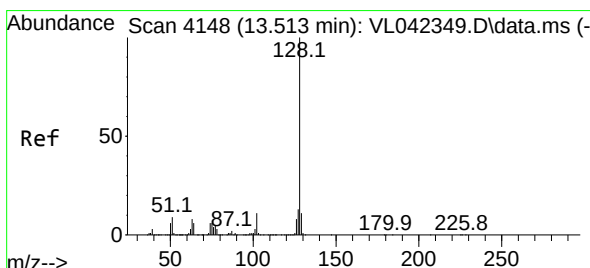
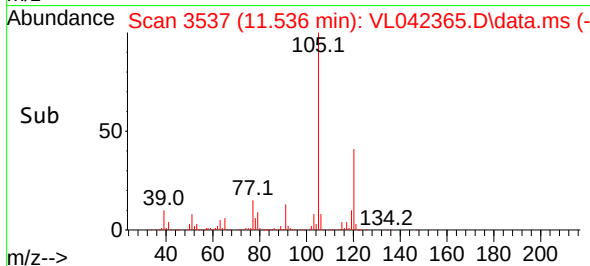
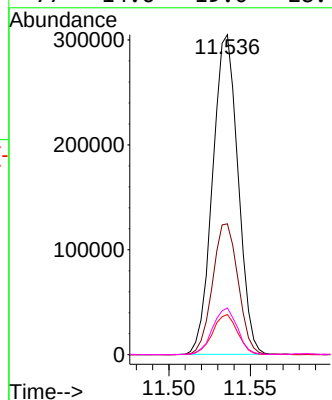
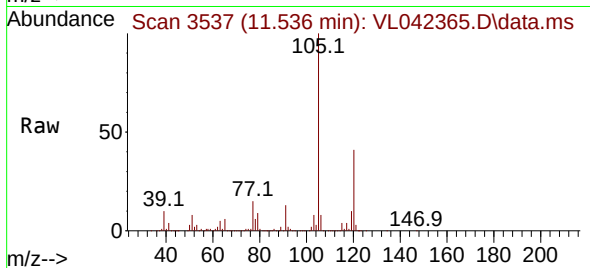
Ion Ratio Lower Upper

105 100

120 40.9 38.1 57.1

91 12.5 48.8 73.2#

77 14.6 19.0 28.4#



#79

Naphthalene

Concen: 0.472 ppbv

RT: 13.513 min Scan# 4148

Delta R.T. 0.000 min

Lab File: VL042365.D

Acq: 17 Apr 2025 19:31

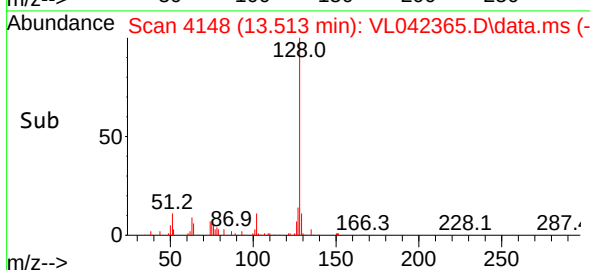
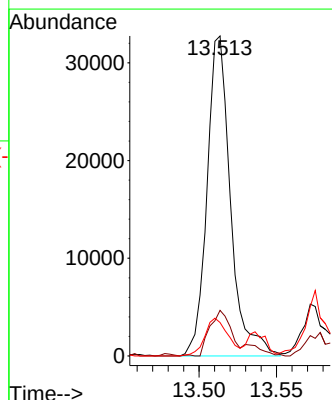
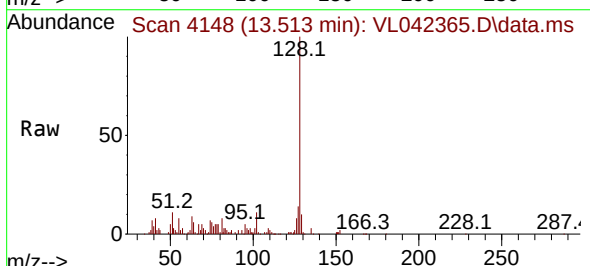
Tgt Ion:128 Resp: 34564

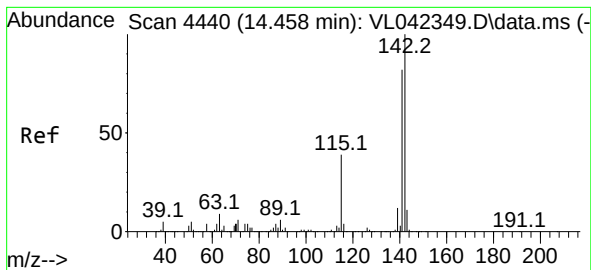
Ion Ratio Lower Upper

128 100

127 14.2 10.6 15.8

129 10.4 8.6 12.8





#80

Naphthalene, 2-methyl-

Concen: 0.369 ppbv

RT: 14.585 min Scan# 44

Delta R.T. 0.127 min

Lab File: VL042365.D

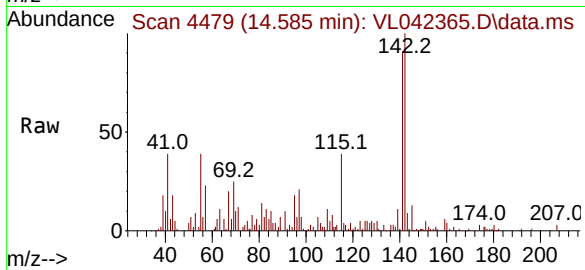
Acq: 17 Apr 2025 19:31

Instrument :

MSVOA_L

ClientSampleId :

IA-B1-2-3252025



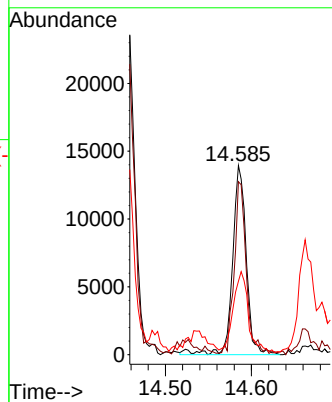
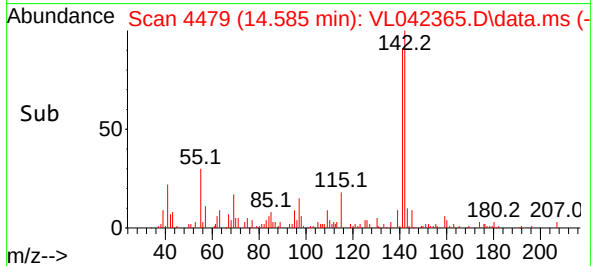
Tgt Ion:142 Resp: 15395

Ion Ratio Lower Upper

142 100

141 79.1 66.8 100.2

115 45.6 33.4 50.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042374.D
 Acq On : 18 Apr 2025 00:28
 Operator : SY/MD
 Sample : Q1668-01DL 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B1-4-3252025DL

Quant Time: Apr 18 02:47:53 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 02:14:00 2025
 Response via : Initial Calibration

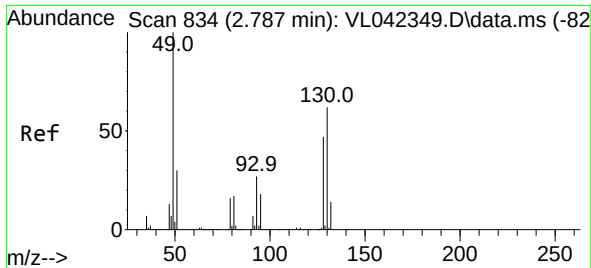
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.787	49	104470	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	294101	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	258444	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	213140	10.036	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.400%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	3131	0.170	ppbv	89
3) Chlorodifluoromethane	1.706	51	543	0.031	ppbv	94
4) Chloromethane	1.534	50	1444	0.198	ppbv	96
6) Bromomethane	1.667	94	163	0.048	ppbv #	11
9) Propene	1.486	41	1595	0.199	ppbv	92
10) Heptane	4.978	43	7466	0.332	ppbv #	27
11) Trichlorofluoromethane	1.877	101	1145	0.065	ppbv	98
13) Ethanol	1.722	45	89338	70.220	ppbv	76
15) Acetone	1.835	43	28193	1.649	ppbv	98
16) 1,3-Butadiene	1.599	39	2179	0.266	ppbv #	25
17) tert-Butyl alcohol	2.049	59	963	0.045	ppbv #	79
19) Isopropyl Alcohol	1.887	45	6632	0.698	ppbv #	1
20) Methylene Chloride	2.062	84	8259	1.233	ppbv	86
23) Vinyl Acetate	2.457	43	1502	0.217	ppbv #	1
25) Ethyl Acetate	2.826	43	11465	0.272	ppbv #	77
26) Hexane	2.823	57	17764	1.041	ppbv #	33
27) Carbon Disulfide	2.149	76	3292	0.180	ppbv #	1
30) Cyclohexane	3.858	84	13322	0.966	ppbv	97
34) 2-Butanone	2.564	43	4793	0.206	ppbv	94
36) Benzene	3.664	78	1791	0.056	ppbv	98
39) 1,2-Dichloropropane	3.955	63	78594	6.649	ppbv #	23
50) 4-Methyl-2-Pentanone	5.755	43	200233	5.180	ppbv	98
53) Toluene	6.933	91	9949	0.261	ppbv #	44
58) Ethyl Benzene	9.354	91	13008	0.254	ppbv	93
59) m/p-Xylene	9.532	91	104338	2.529	ppbv	99
60) o-Xylene	9.963	91	22264	0.536	ppbv	99
61) Styrene	9.872	104	8460	0.427	ppbv	97
62) Isopropylbenzene	10.539	105	2585	0.042	ppbv	100
64) n-propylbenzene	10.992	120	2068	0.135	ppbv	91
65) tert-Butylbenzene	11.536	119	5744	0.102	ppbv #	65
69) p-Isopropyltoluene	11.924	119	2965	0.044	ppbv #	91
72) 4-Ethyltoluene	11.125	105	14677	0.289	ppbv #	56
73) 1,3,5-Trimethylbenzene	11.202	105	14990	0.334	ppbv	89
74) 1,2,4-Trimethylbenzene	11.536	105	55625	1.062	ppbv #	62
79) Naphthalene	13.516	128	9572	0.153	ppbv #	92
80) Naphthalene,2-methyl-	14.465	142	1218	0.034	ppbv #	35

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

Quant Time: Apr 18 02:47:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

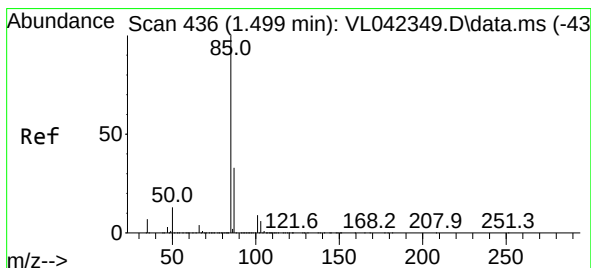
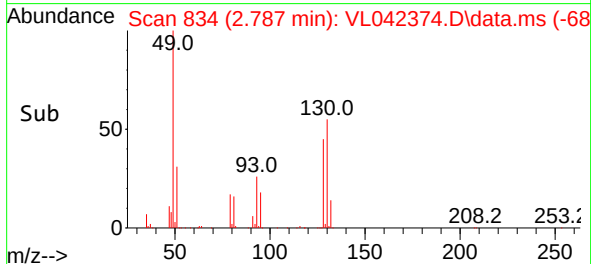
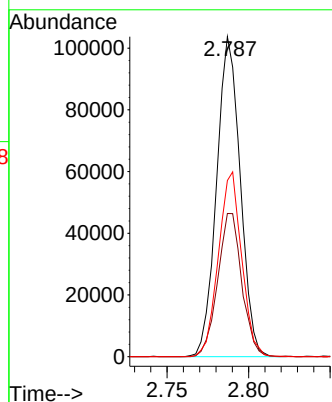
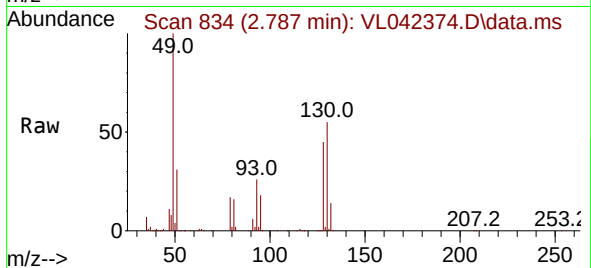




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.787 min Scan# 834
 Delta R.T. -0.000 min
 Lab File: VL042374.D
 Acq: 18 Apr 2025 00:28

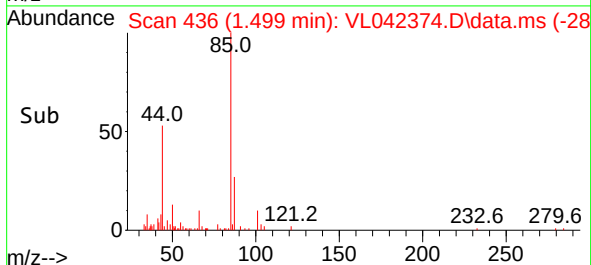
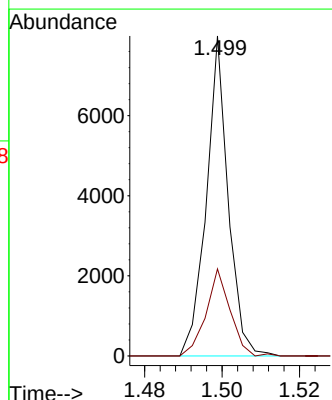
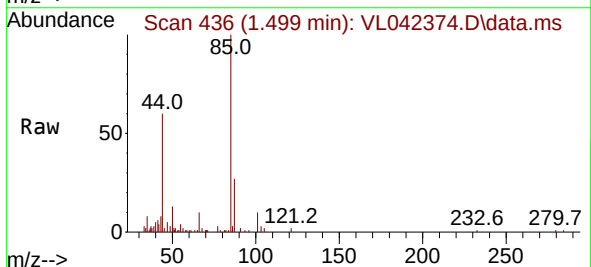
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B1-4-3252025DL

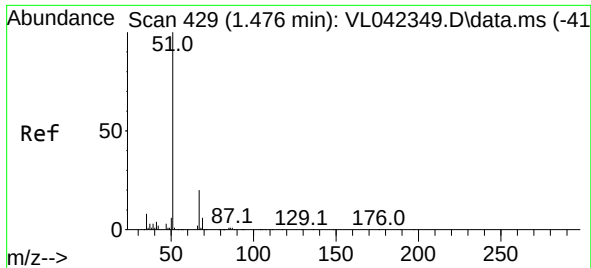
Tgt Ion: 49 Resp: 104470
 Ion Ratio Lower Upper
 49 100
 128 45.6 22.8 68.4
 130 56.8 29.3 88.0



#2
 Dichlorodifluoromethane
 Concen: 0.170 ppbv
 RT: 1.499 min Scan# 436
 Delta R.T. 0.000 min
 Lab File: VL042374.D
 Acq: 18 Apr 2025 00:28

Tgt Ion: 85 Resp: 3131
 Ion Ratio Lower Upper
 85 100
 87 27.2 26.6 39.8

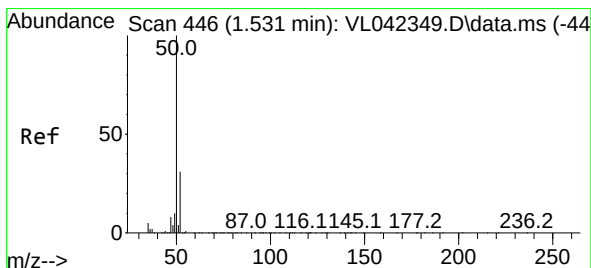
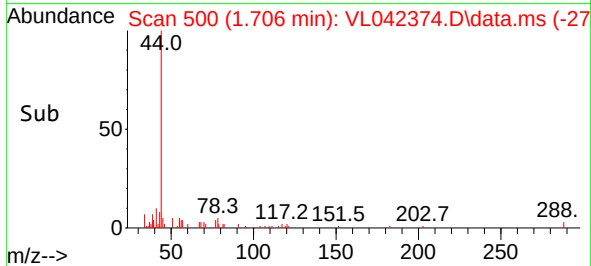
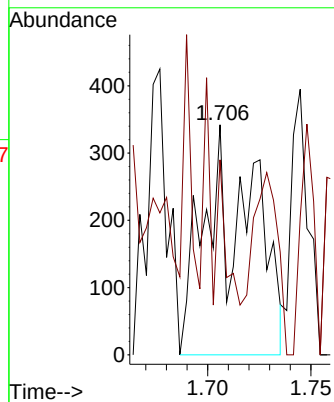
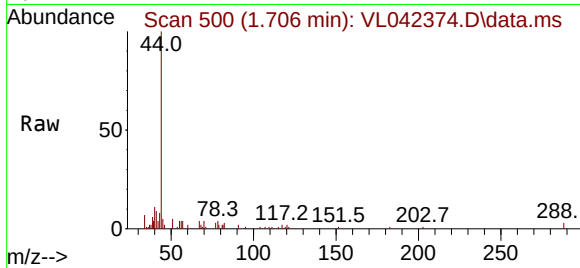




#3
Chlorodifluoromethane
Concen: 0.031 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.230 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

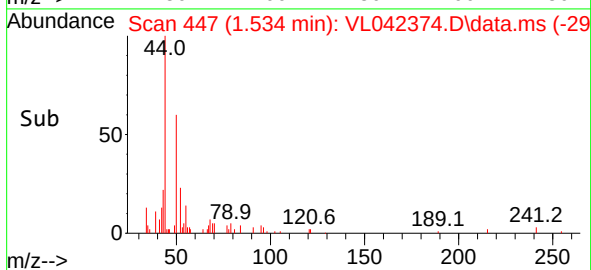
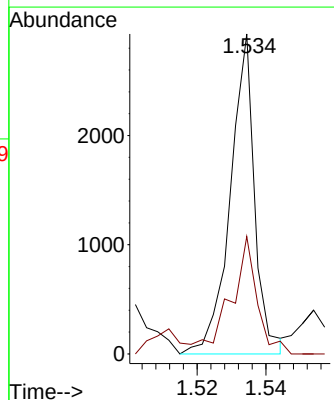
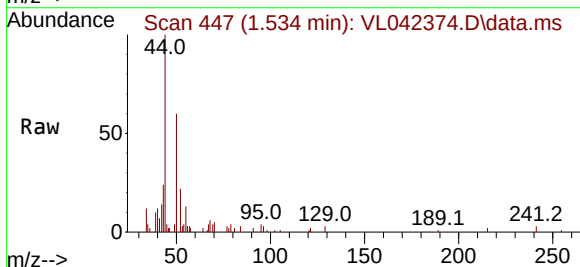
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DL

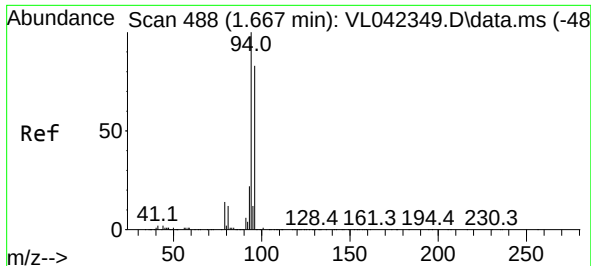
Tgt Ion: 51 Resp: 543
Ion Ratio Lower Upper
51 100
67 23.0 16.2 24.4



#4
Chloromethane
Concen: 0.198 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Tgt Ion: 50 Resp: 1444
Ion Ratio Lower Upper
50 100
52 33.3 24.7 37.1

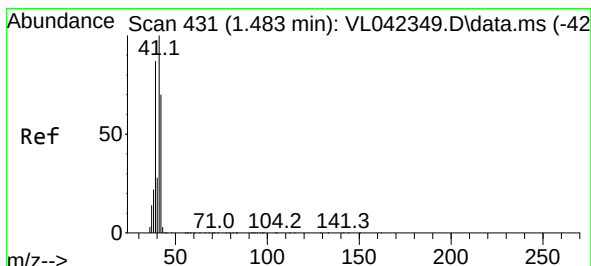
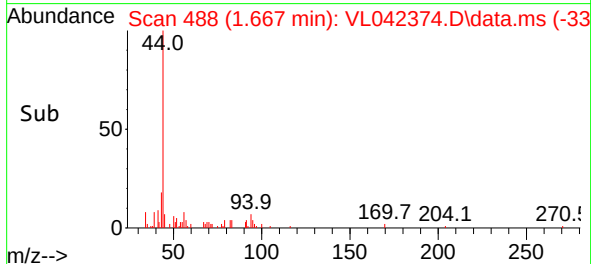
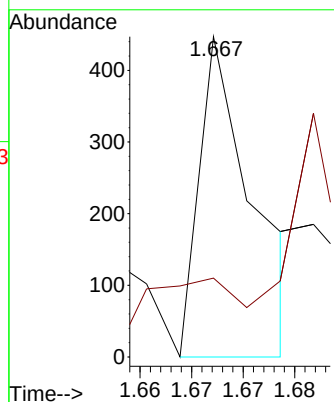
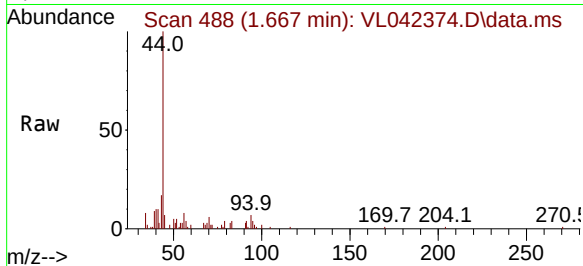




#6
Bromomethane
Concen: 0.048 ppbv
RT: 1.667 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

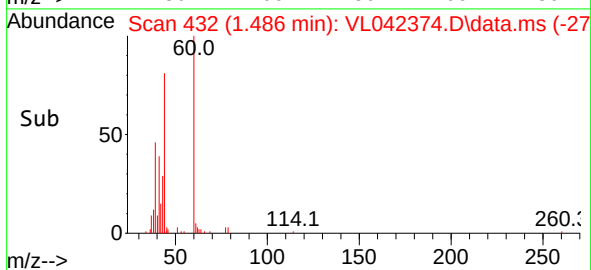
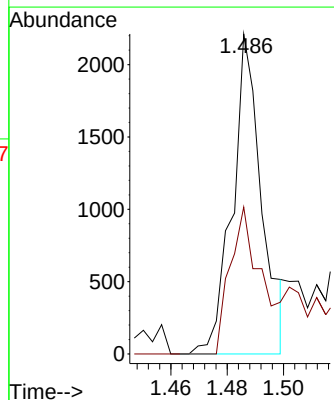
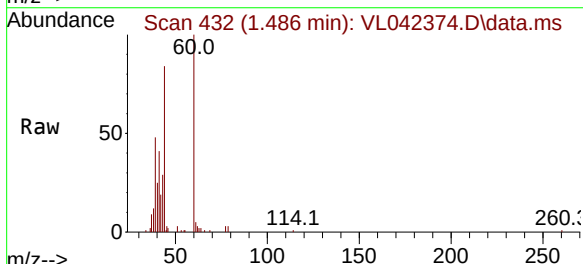
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ClientSampleId :
IA-B1-4-3252025DL

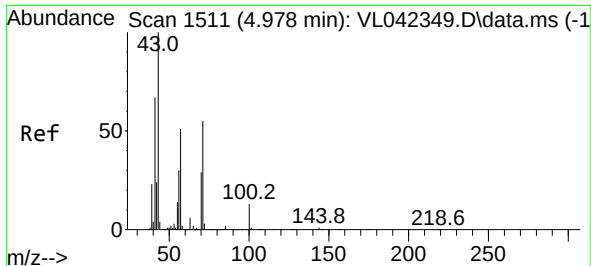
Tgt Ion: 94 Resp: 163
Ion Ratio Lower Upper
94 100
96 2.5 66.2 99.2#



#9
Propene
Concen: 0.199 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.003 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Tgt Ion: 41 Resp: 1595
Ion Ratio Lower Upper
41 100
42 63.9 56.2 84.4

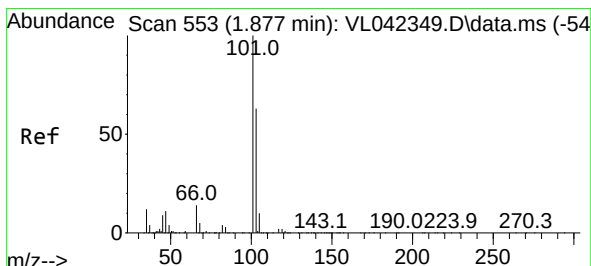
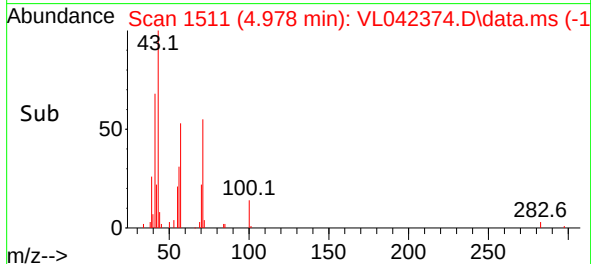
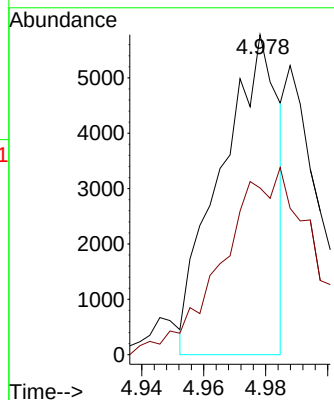
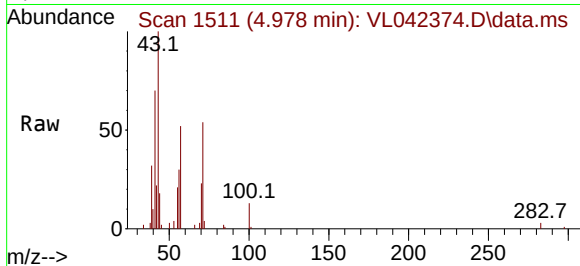




#10
 Heptane
 Concen: 0.332 ppbv
 RT: 4.978 min Scan# 1511
 Delta R.T. 0.000 min
 Lab File: VL042374.D
 Acq: 18 Apr 2025 00:28

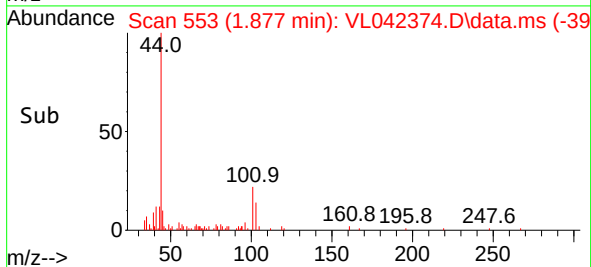
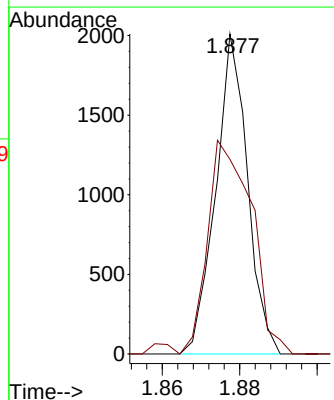
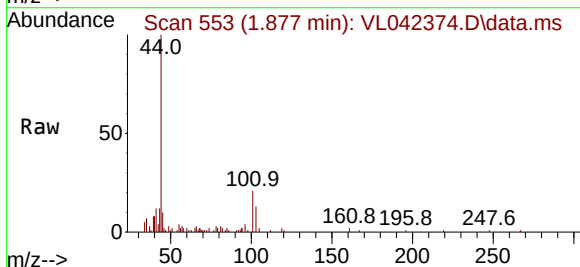
Instrument :
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 ClientSampleId :
 IA-B1-4-3252025DL

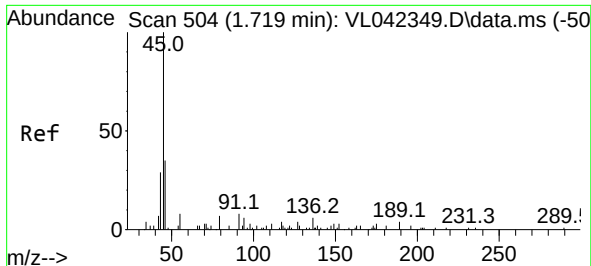
Tgt Ion: 43 Resp: 7466
 Ion Ratio Lower Upper
 43 100
 57 0.0 39.9 59.9#



#11
 Trichlorofluoromethane
 Concen: 0.065 ppbv
 RT: 1.877 min Scan# 553
 Delta R.T. 0.000 min
 Lab File: VL042374.D
 Acq: 18 Apr 2025 00:28

Tgt Ion: 101 Resp: 1145
 Ion Ratio Lower Upper
 101 100
 103 60.8 50.1 75.1

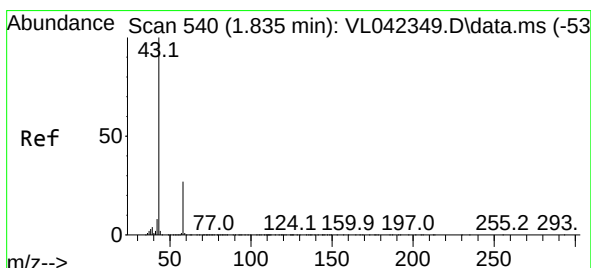
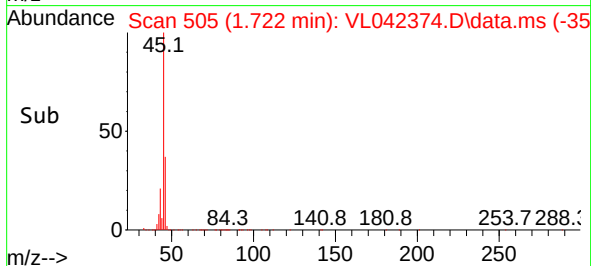
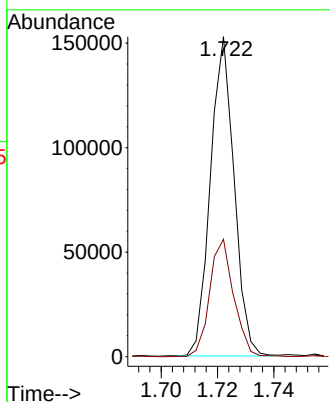
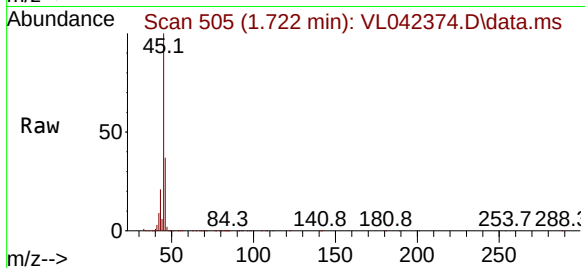




#13
Ethanol
Concen: 70.220 ppbv
RT: 1.722 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

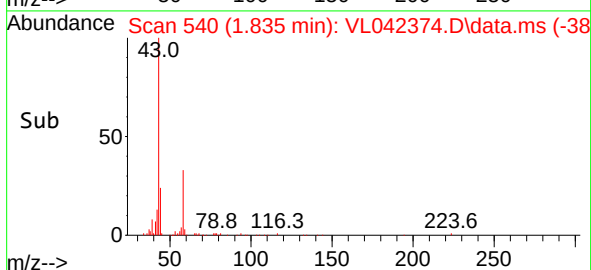
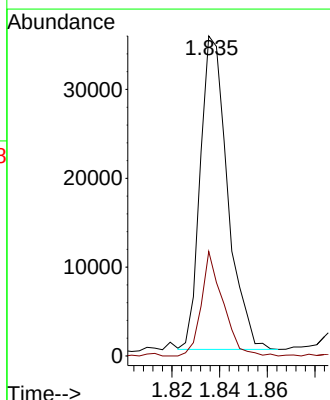
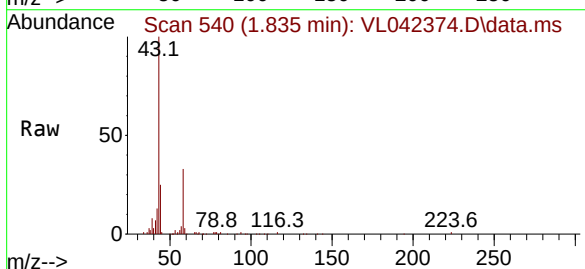
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ClientSampleId :
IA-B1-4-3252025DL

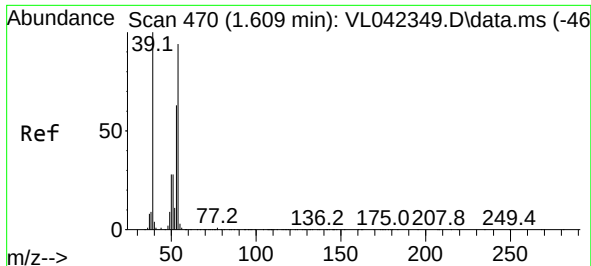
Tgt Ion: 45 Resp: 89338
Ion Ratio Lower Upper
45 100
46 37.5 21.9 87.7



#15
Acetone
Concen: 1.649 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Tgt Ion: 43 Resp: 28193
Ion Ratio Lower Upper
43 100
58 27.1 22.4 33.6

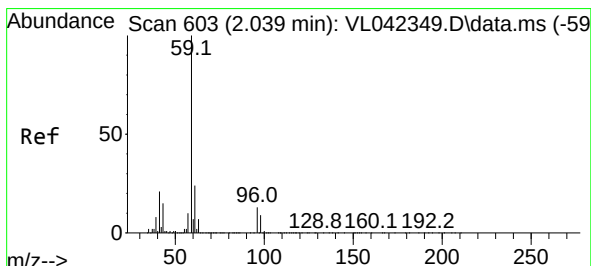
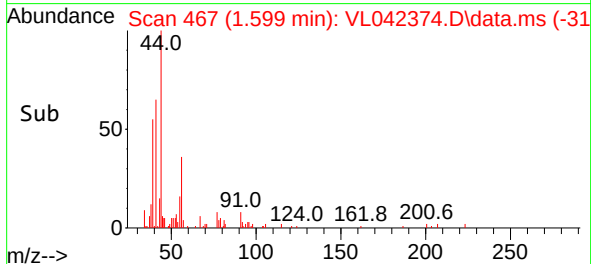
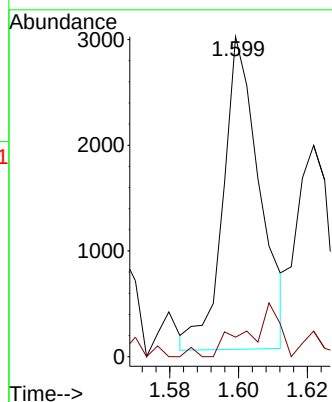
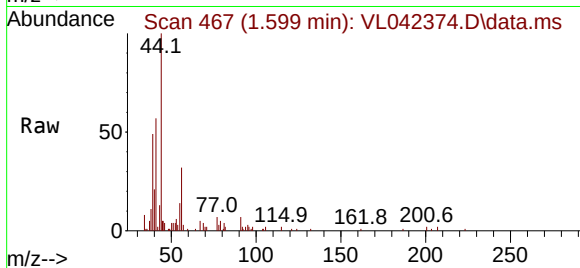




#16
1,3-Butadiene
Concen: 0.266 ppbv
RT: 1.599 min Scan# 410
Delta R.T. -0.010 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

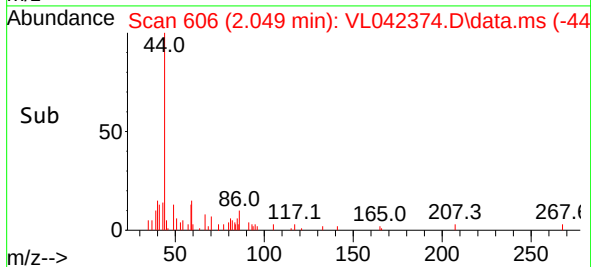
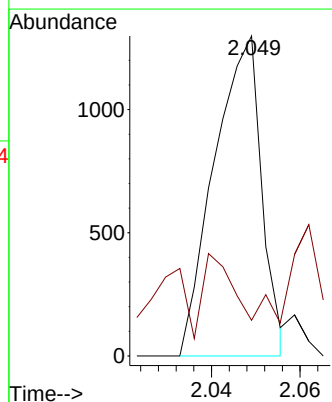
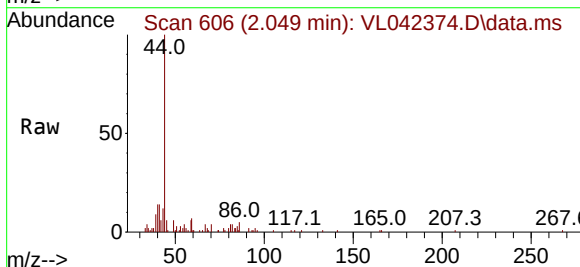
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IA-B1-4-3252025DL

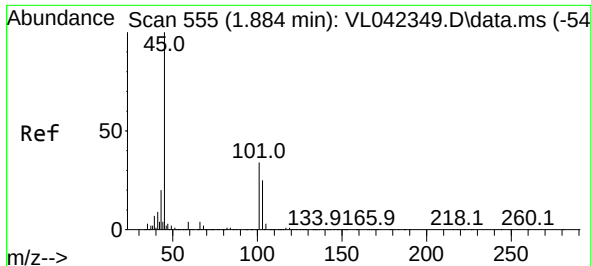
Tgt Ion: 39 Resp: 2179
Ion Ratio Lower Upper
39 100
54 14.4 64.9 97.3#



#17
tert-Butyl alcohol
Concen: 0.045 ppbv
RT: 2.049 min Scan# 606
Delta R.T. 0.010 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Tgt Ion: 59 Resp: 963
Ion Ratio Lower Upper
59 100
57 19.0 8.7 13.1#

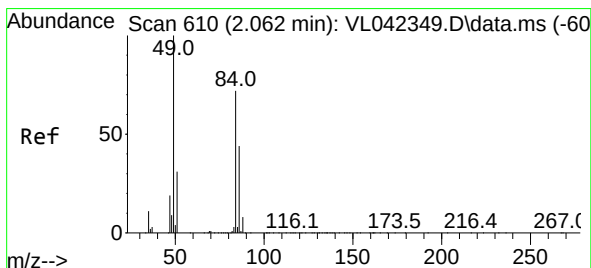
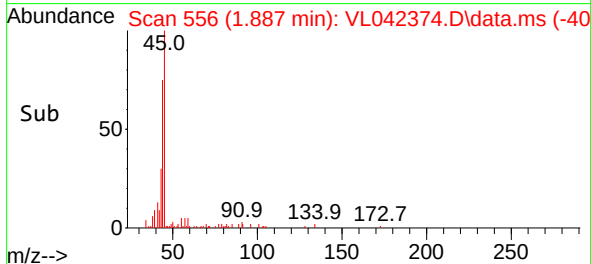
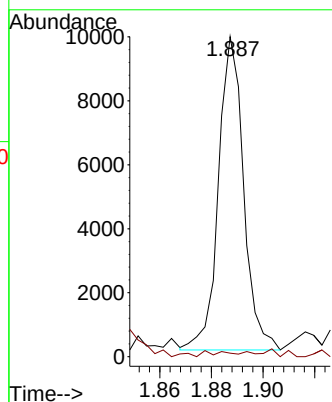
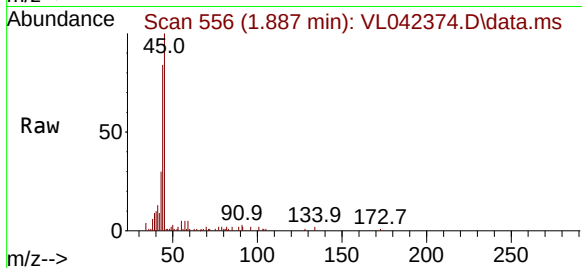




#19
Isopropyl Alcohol
Concen: 0.698 ppbv
RT: 1.887 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

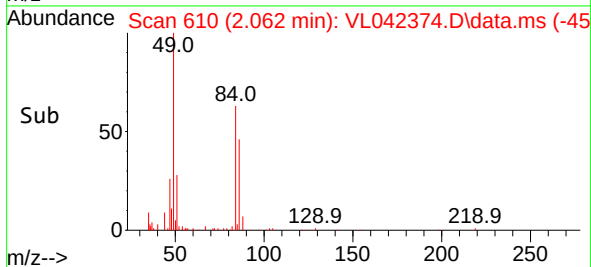
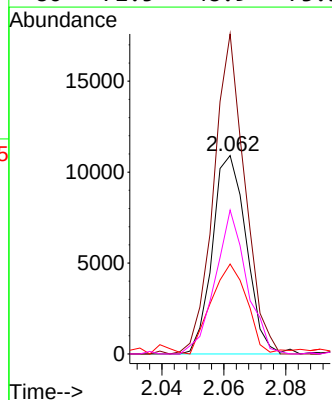
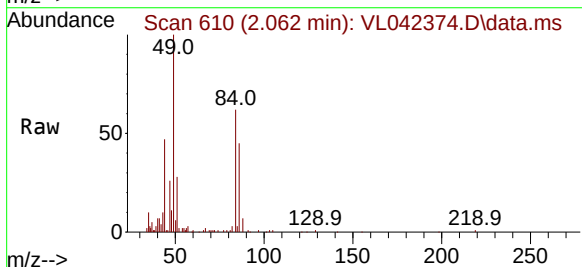
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DL

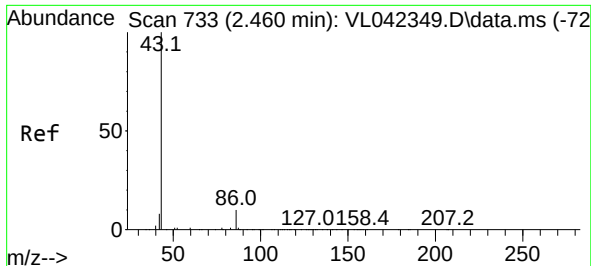
Tgt Ion: 45 Resp: 6632
Ion Ratio Lower Upper
45 100
58 115.4 34.5 51.7#



#20
Methylene Chloride
Concen: 1.233 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Tgt Ion: 84 Resp: 8259
Ion Ratio Lower Upper
84 100
49 161.3 111.6 167.4
51 44.5 35.1 52.7
86 72.5 48.9 73.3

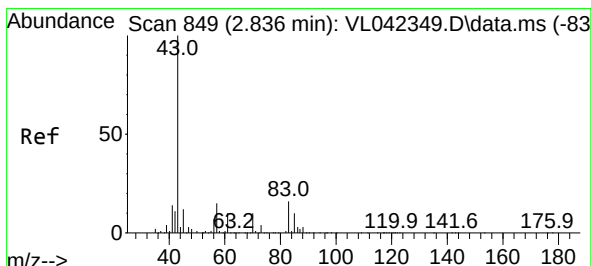
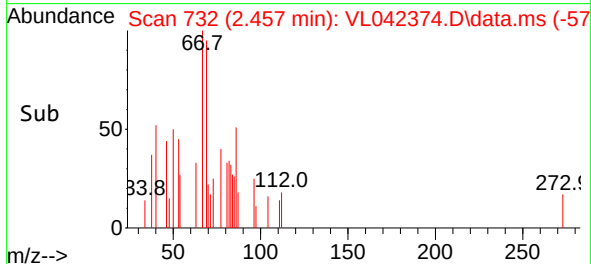
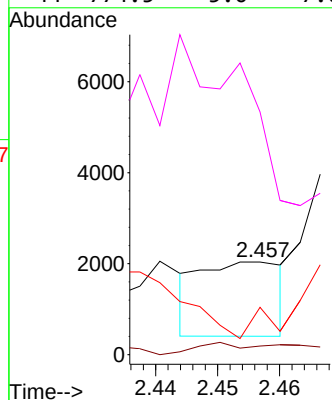
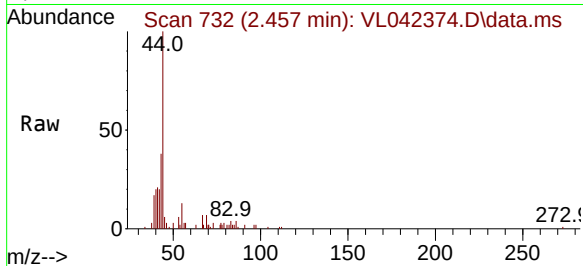




#23
 Vinyl Acetate
 Concen: 0.217 ppbv
 RT: 2.457 min Scan# 71
 Delta R.T. -0.003 min
 Lab File: VL042374.D
 Acq: 18 Apr 2025 00:28

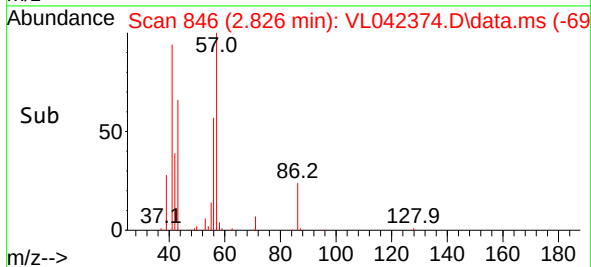
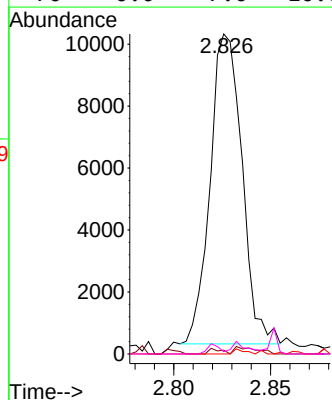
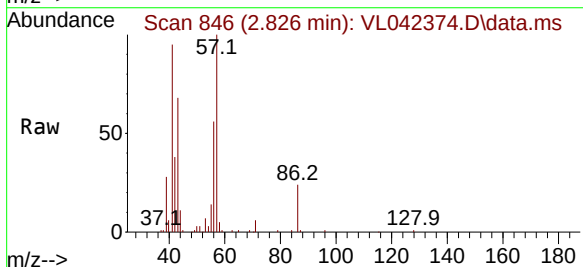
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B1-4-3252025DL

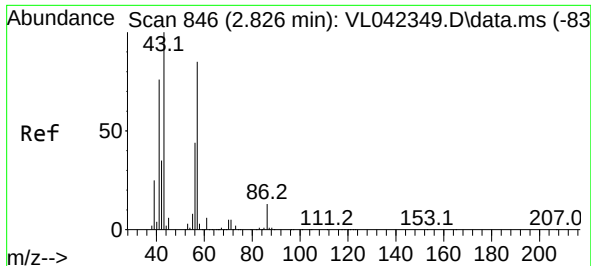
Tgt Ion:	43	Resp:	1502
Ion	Ratio	Lower	Upper
43	100		
86	50.2	6.5	9.7#
42	210.4	7.8	11.8#
44	774.5	5.0	7.6#



#25
 Ethyl Acetate
 Concen: 0.272 ppbv
 RT: 2.826 min Scan# 846
 Delta R.T. -0.010 min
 Lab File: VL042374.D
 Acq: 18 Apr 2025 00:28

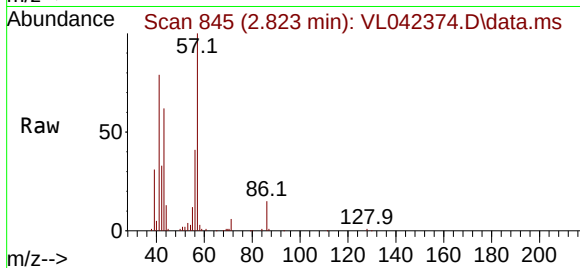
Tgt Ion:	43	Resp:	11465
Ion	Ratio	Lower	Upper
43	100		
45	2.3	8.3	12.5#
61	0.7	7.3	10.9#
70	0.0	7.0	10.6#



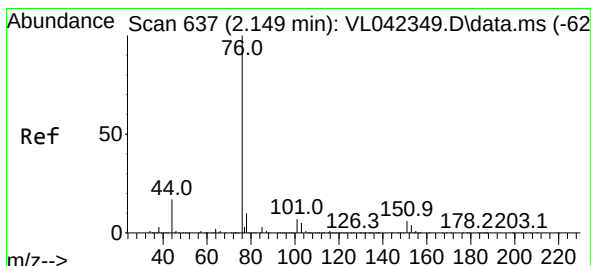
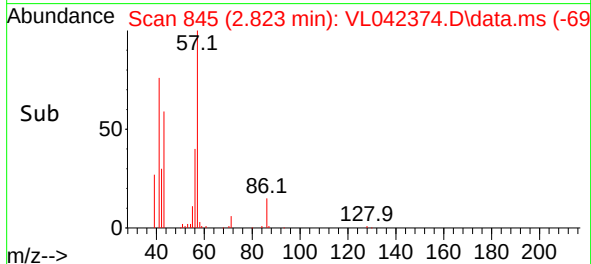
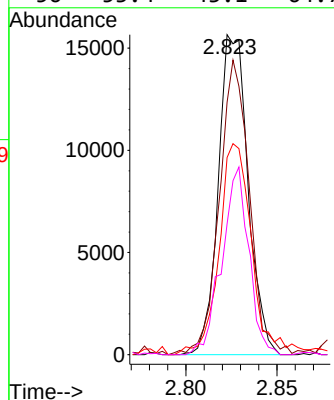


#26
Hexane
Concen: 1.041 ppbv
RT: 2.823 min Scan# 846
Delta R.T. -0.003 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DL

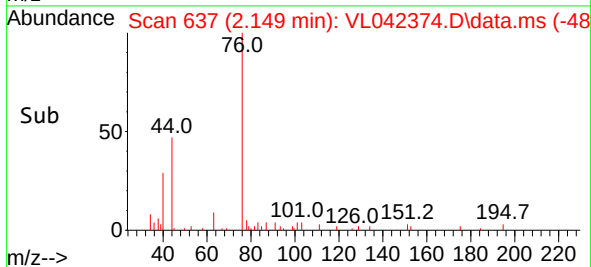
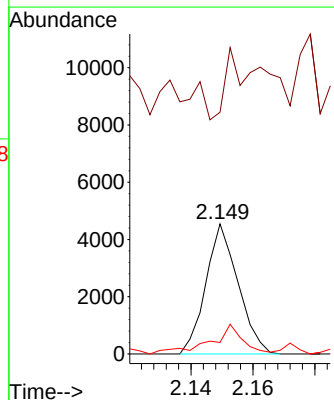
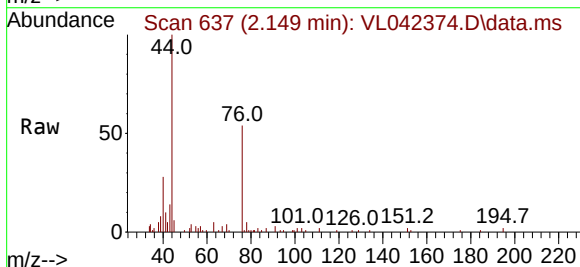


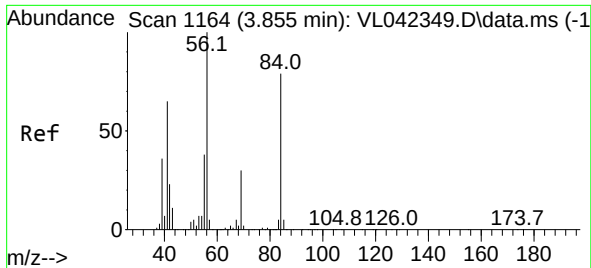
Tgt Ion:	57	Resp:	17764
Ion	Ratio	Lower	Upper
57	100		
41	92.1	77.9	116.9
43	74.3	208.4	312.6#
56	53.4	43.1	64.7



#27
Carbon Disulfide
Concen: 0.180 ppbv
RT: 2.149 min Scan# 637
Delta R.T. 0.000 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Tgt Ion:	76	Resp:	3292
Ion	Ratio	Lower	Upper
76	100		
44	104.8	15.5	23.3#
78	26.8	9.3	13.9#

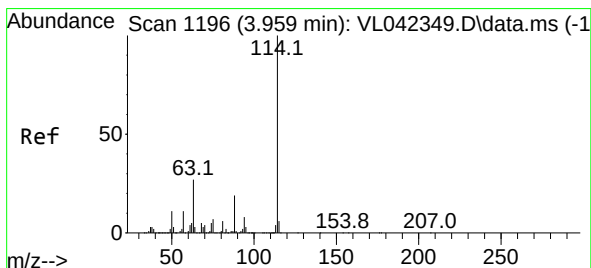
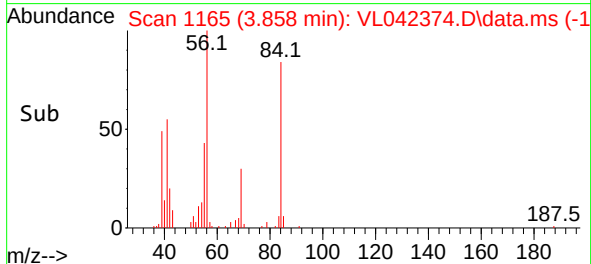
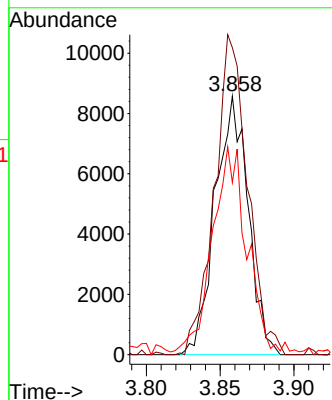
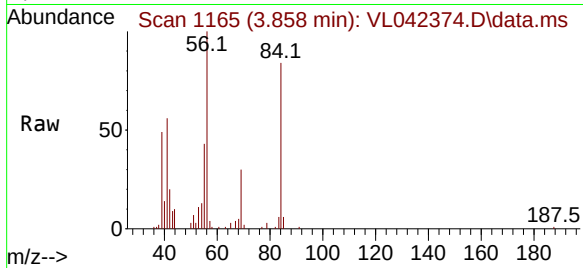




#30
Cyclohexane
Concen: 0.966 ppbv
RT: 3.858 min Scan# 1165
Delta R.T. 0.003 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

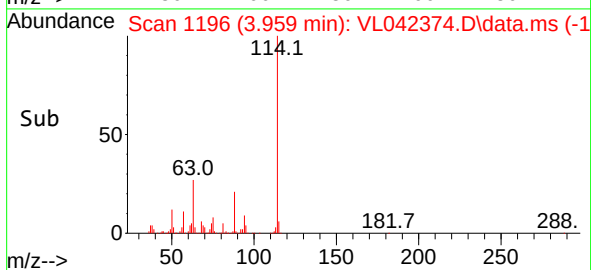
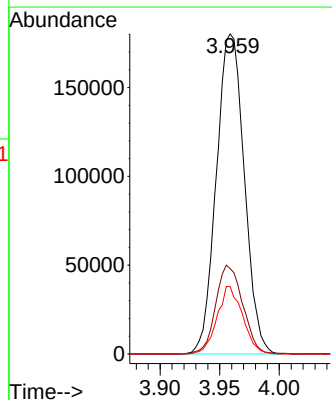
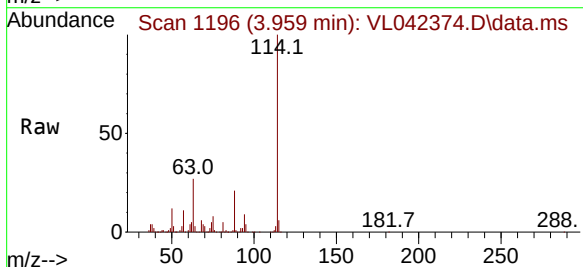
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DL

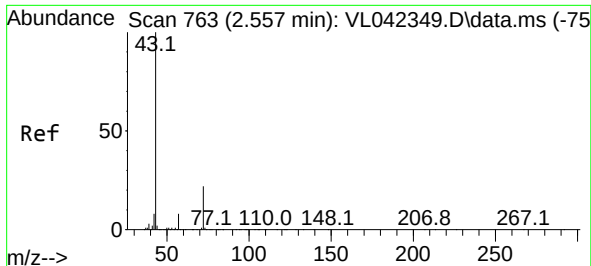
Tgt Ion: 84 Resp: 13322
Ion Ratio Lower Upper
84 100
56 124.4 101.0 151.4
41 88.1 67.4 101.0



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. 0.000 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Tgt Ion: 114 Resp: 294101
Ion Ratio Lower Upper
114 100
63 26.8 21.8 32.6
88 19.2 15.5 23.3

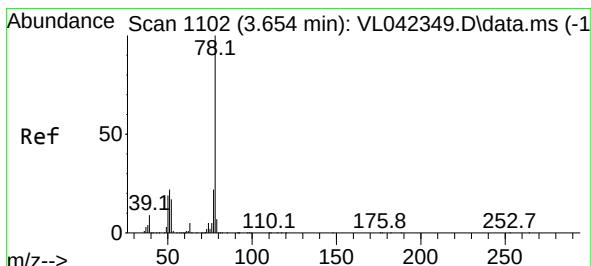
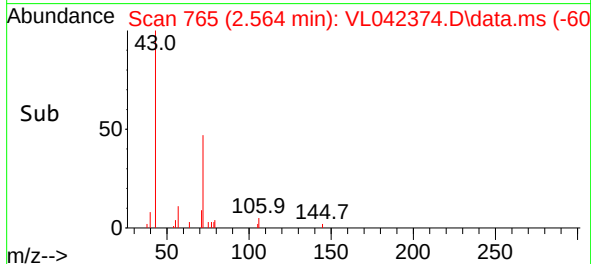
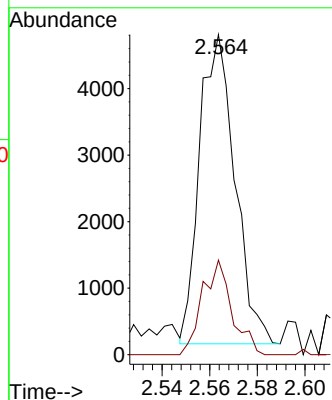
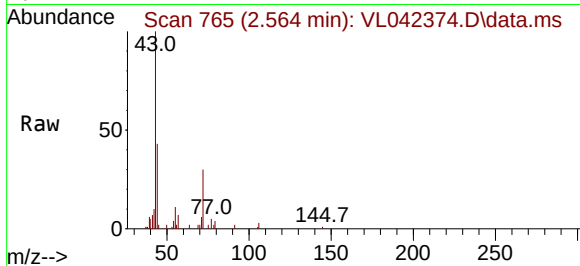




#34
2-Butanone
Concen: 0.206 ppbv
RT: 2.564 min Scan# 71
Delta R.T. 0.006 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

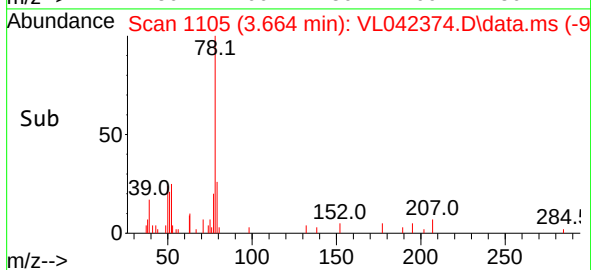
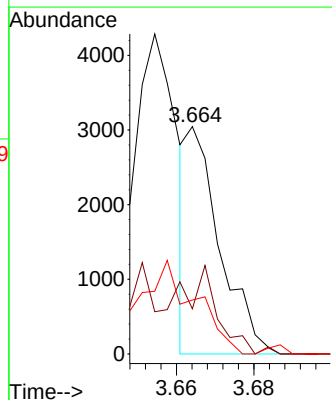
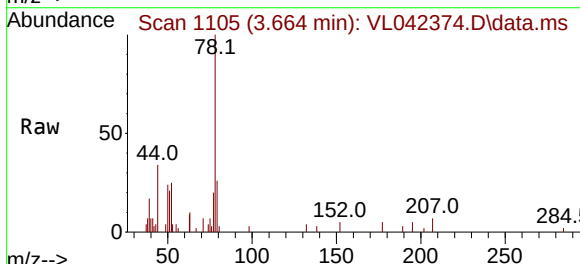
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DL

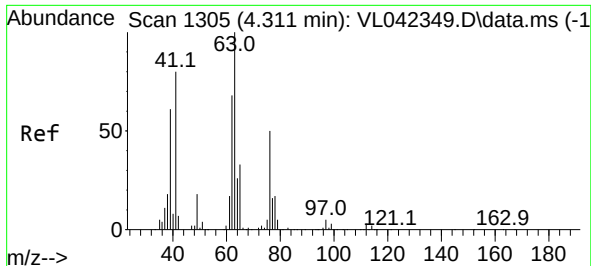
Tgt Ion: 43 Resp: 4793
Ion Ratio Lower Upper
43 100
72 25.6 18.2 27.2



#36
Benzene
Concen: 0.056 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. 0.010 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Tgt Ion: 78 Resp: 1791
Ion Ratio Lower Upper
78 100
77 19.9 17.4 26.0
50 19.7 15.5 23.3





#39

1,2-Dichloropropane

Concen: 6.649 ppbv

RT: 3.955 min Scan# 1195

Delta R.T. -0.356 min

Lab File: VL042374.D

Acq: 18 Apr 2025 00:28

Instrument :

MSVOA_L

ClientSampleId :

IA-B1-4-3252025DL

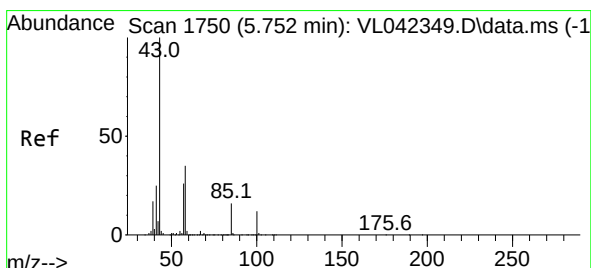
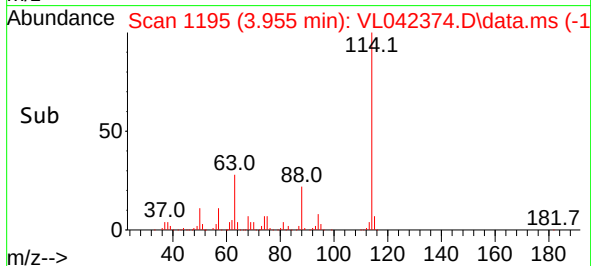
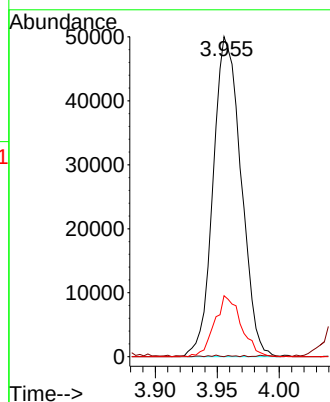
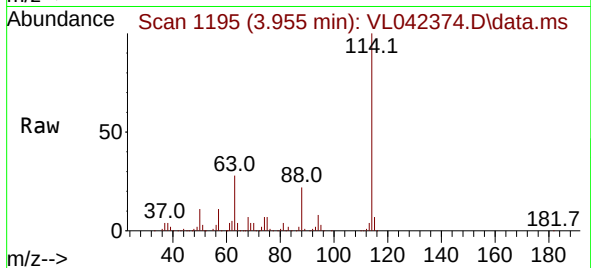
Tgt Ion: 63 Resp: 78594

Ion Ratio Lower Upper

63 100

41 0.0 64.2 96.2#

62 19.1 54.3 81.5#



#50

4-Methyl-2-Pentanone

Concen: 5.180 ppbv

RT: 5.755 min Scan# 1751

Delta R.T. 0.003 min

Lab File: VL042374.D

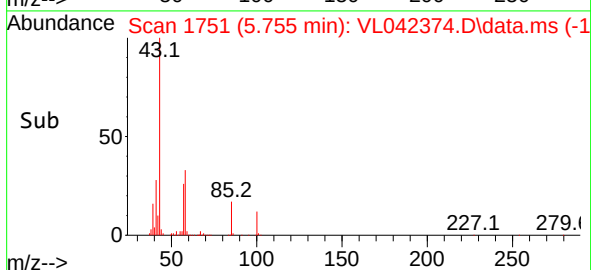
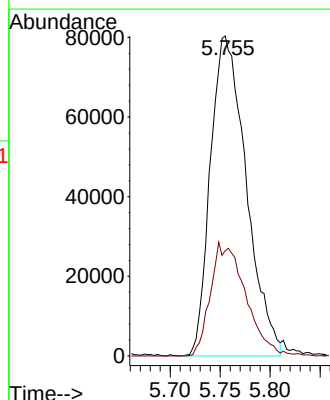
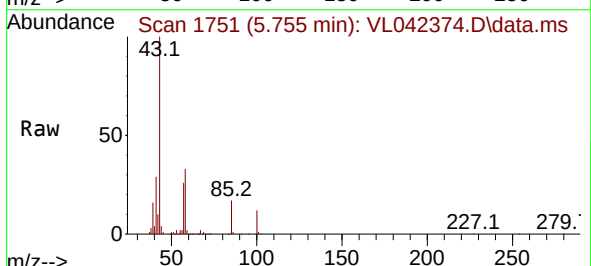
Acq: 18 Apr 2025 00:28

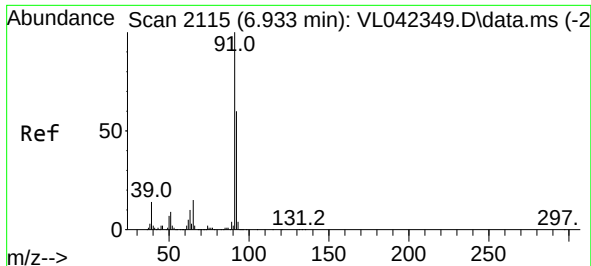
Tgt Ion: 43 Resp: 200233

Ion Ratio Lower Upper

43 100

58 34.8 28.6 43.0

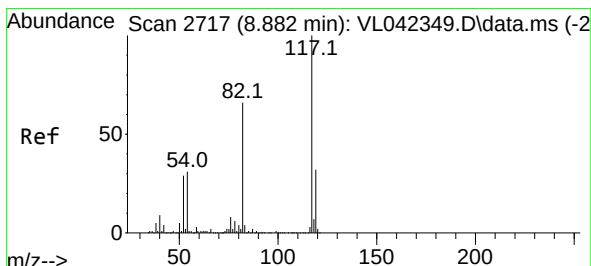
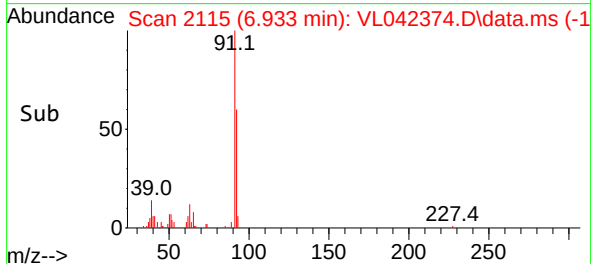
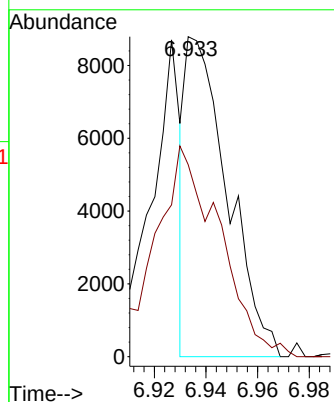
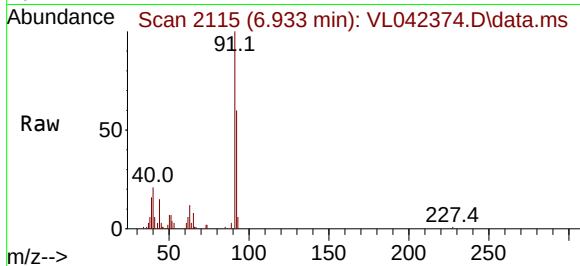




#53
Toluene
Concen: 0.261 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. 0.000 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

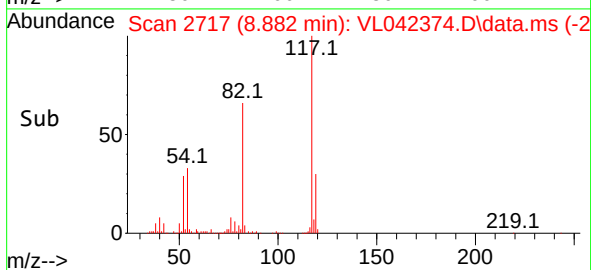
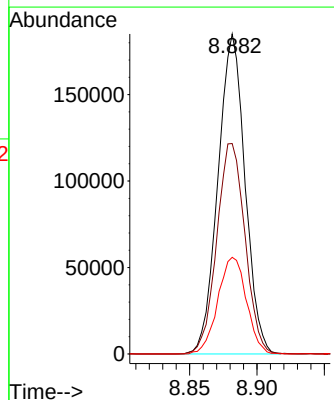
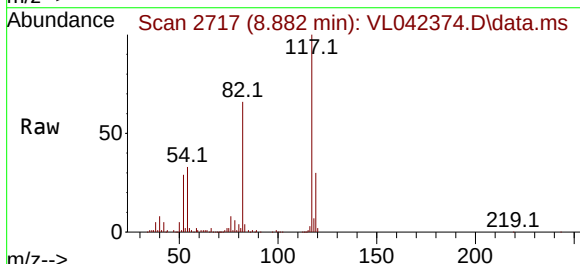
Instrument :
MSVOA_1
ClientSampleId :
IA-B1-4-3252025DL

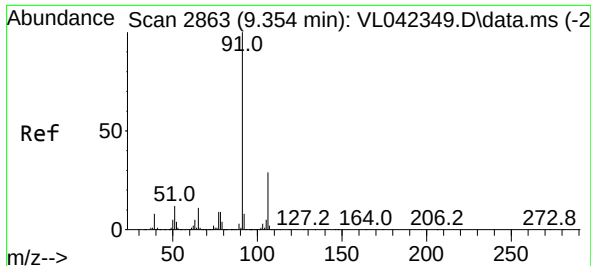
Tgt Ion: 91 Resp: 9949
Ion Ratio Lower Upper
91 100
92 102.6 48.2 72.4#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2717
Delta R.T. 0.000 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Tgt Ion: 117 Resp: 258444
Ion Ratio Lower Upper
117 100
82 68.7 57.8 86.6
119 31.9 25.2 37.8

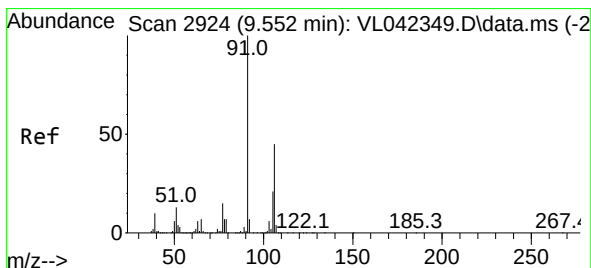
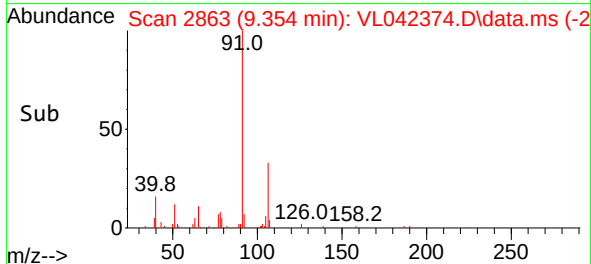
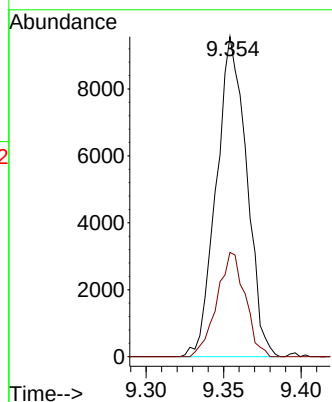
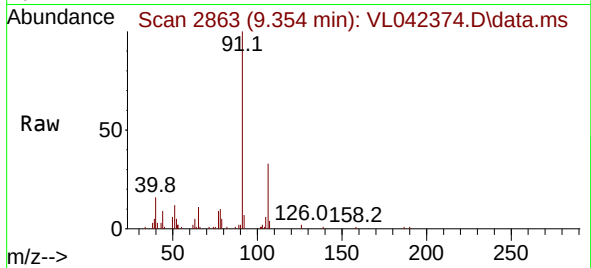




#58
Ethyl Benzene
Concen: 0.254 ppbv
RT: 9.354 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

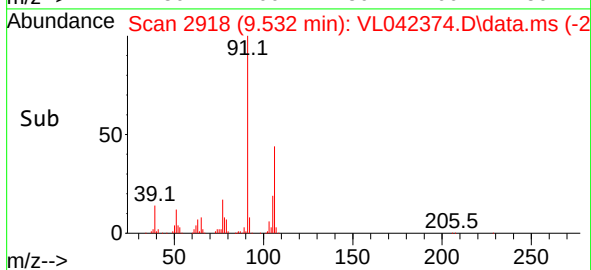
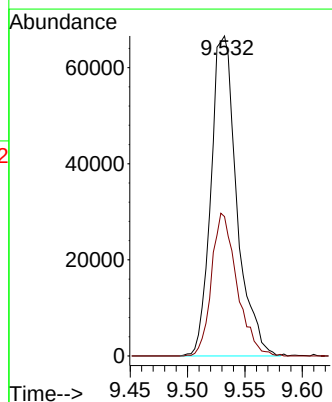
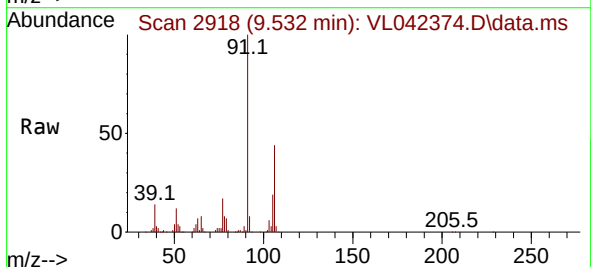
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DL

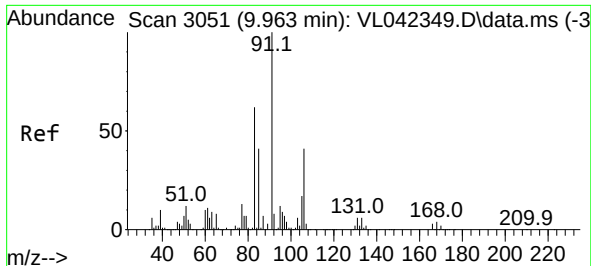
Tgt Ion: 91 Resp: 13008
Ion Ratio Lower Upper
91 100
106 32.6 23.0 34.4



#59
m/p-Xylene
Concen: 2.529 ppbv
RT: 9.532 min Scan# 2918
Delta R.T. -0.019 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Tgt Ion: 91 Resp: 104338
Ion Ratio Lower Upper
91 100
106 43.8 35.4 53.2

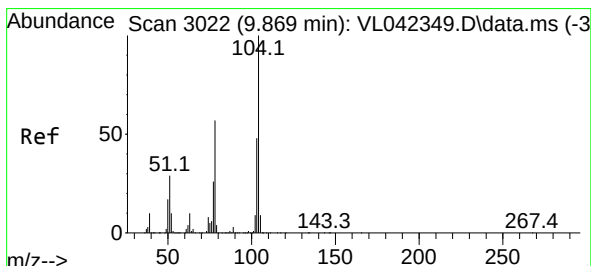
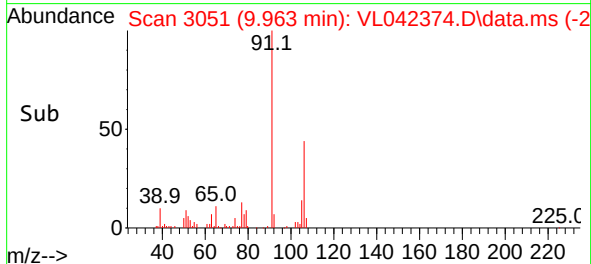
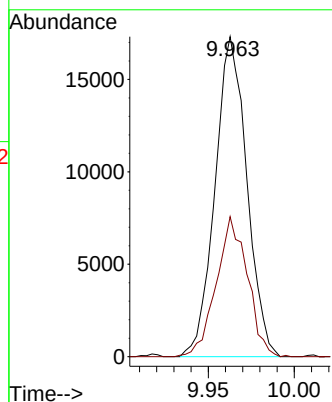
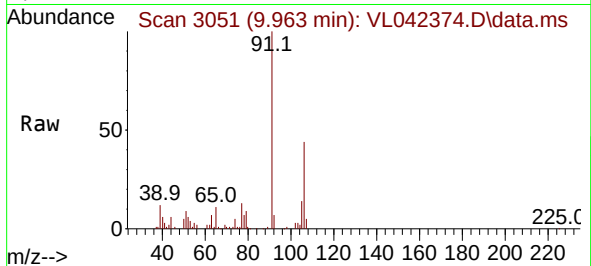




#60
o-Xylene
Concen: 0.536 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. 0.000 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

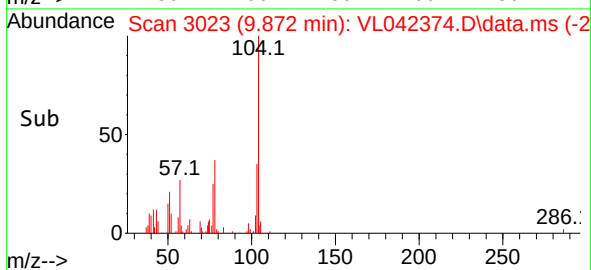
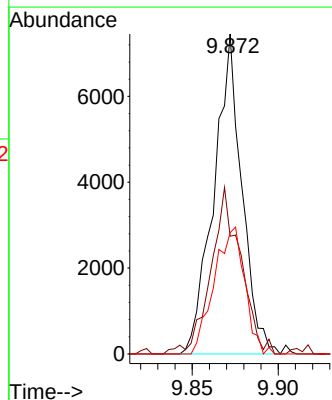
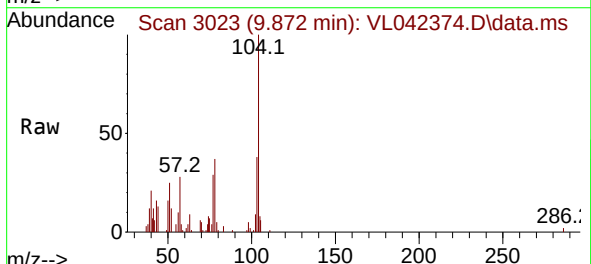
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DL

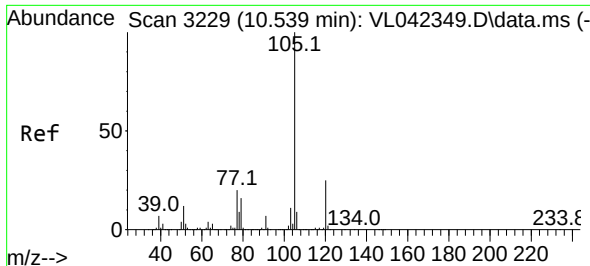
Tgt Ion: 91 Resp: 22264
Ion Ratio Lower Upper
91 100
106 42.8 21.1 63.4



#61
Styrene
Concen: 0.427 ppbv
RT: 9.872 min Scan# 3023
Delta R.T. 0.003 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Tgt Ion: 104 Resp: 8460
Ion Ratio Lower Upper
104 100
78 57.0 44.6 66.8
103 43.3 37.4 56.0

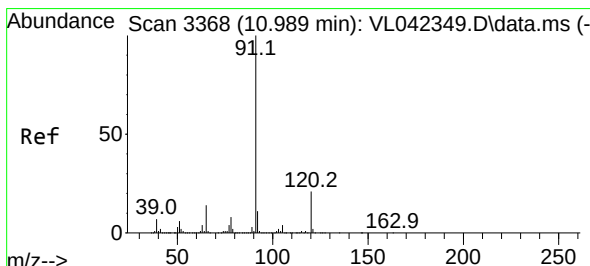
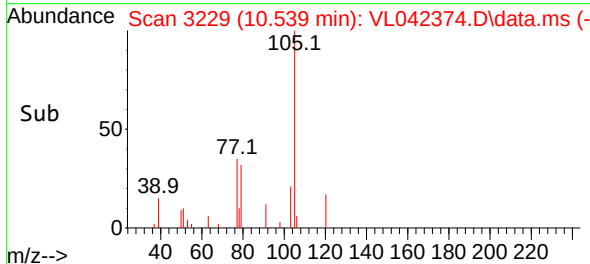
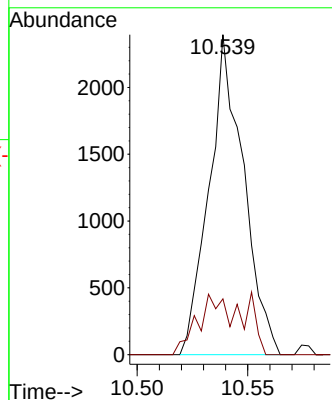
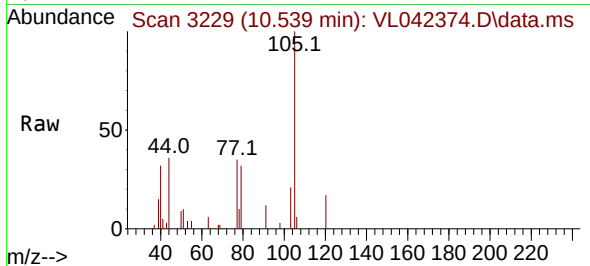




#62
Isopropylbenzene
Concen: 0.042 ppbv
RT: 10.539 min Scan# 31
Delta R.T. 0.000 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

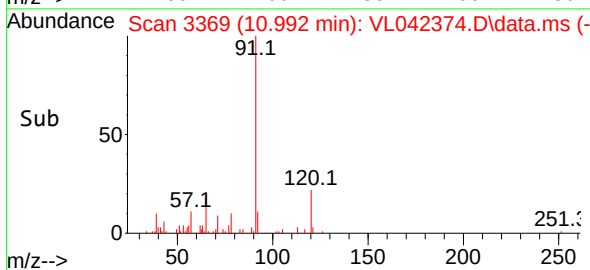
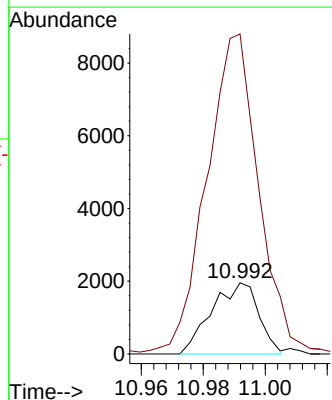
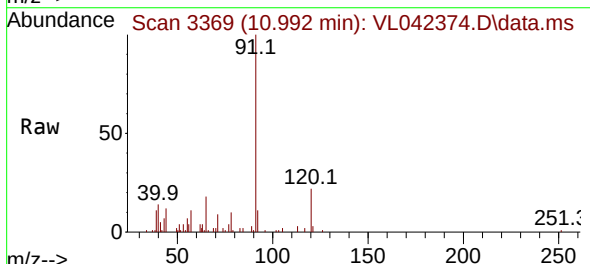
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-4-3252025DL

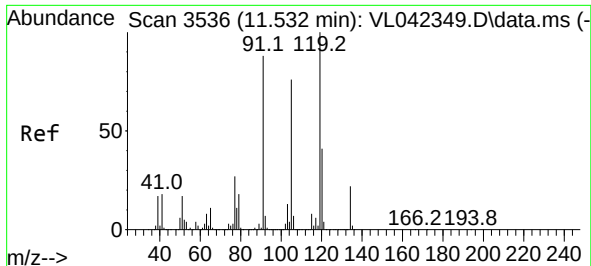
Tgt Ion:105 Resp: 2585
Ion Ratio Lower Upper
105 100
120 24.7 19.8 29.8



#64
n-propylbenzene
Concen: 0.135 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. 0.003 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Tgt Ion:120 Resp: 2068
Ion Ratio Lower Upper
120 100
91 513.7 392.4 588.6

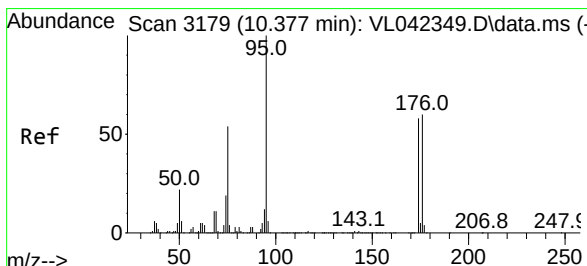
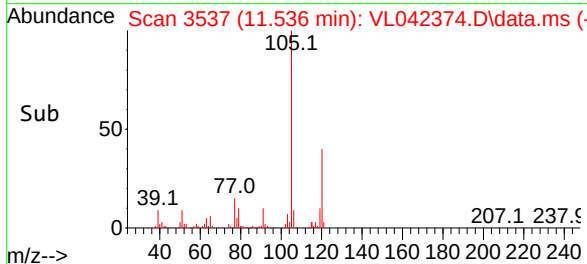
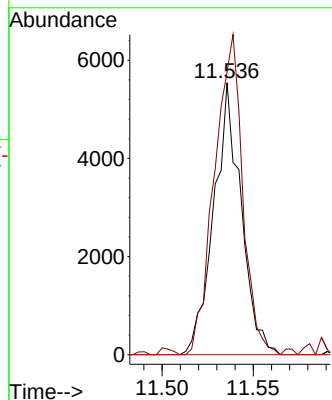
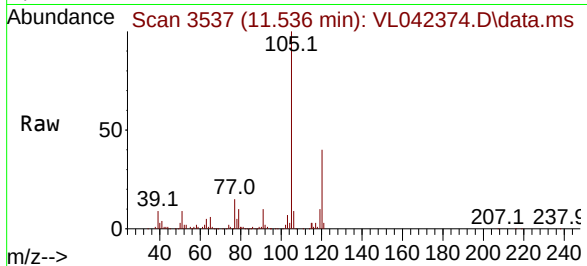




#65
tert-Butylbenzene
Concen: 0.102 ppbv
RT: 11.536 min Scan# 3119
Delta R.T. 0.003 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

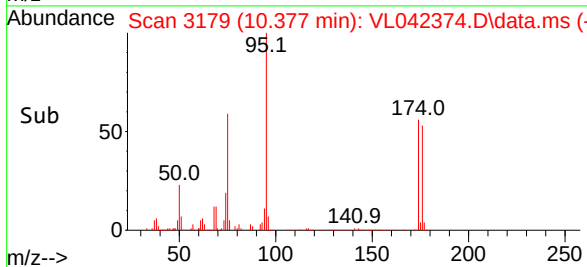
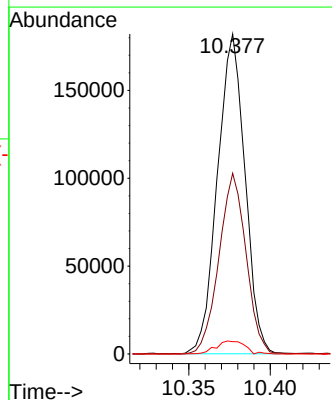
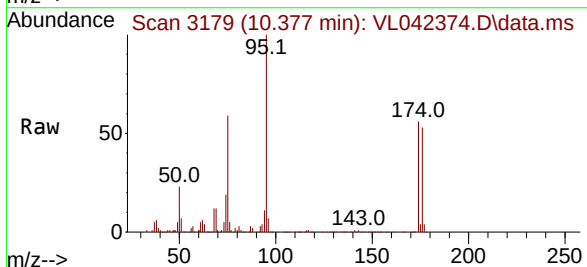
Instrument :
MSVOA_1
ClientSampleId :
IA-B1-4-3252025DL

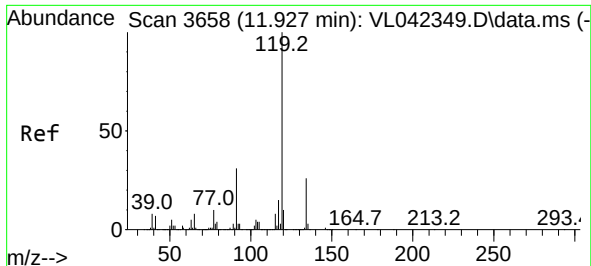
Tgt Ion:119 Resp: 5744
Ion Ratio Lower Upper
119 100
91 124.0 74.6 111.8#
134 0.0 18.8 28.2#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.036 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.000 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Tgt Ion: 95 Resp: 213140
Ion Ratio Lower Upper
95 100
174 55.7 48.5 72.7
175 4.3 3.7 5.5

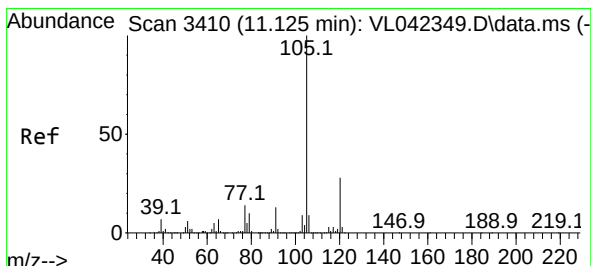
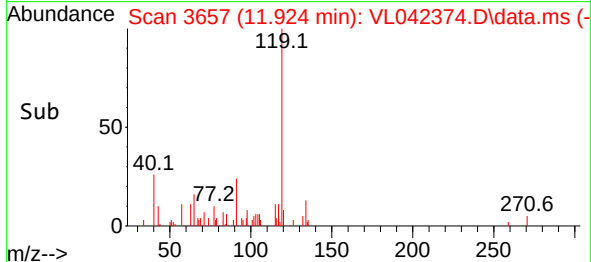
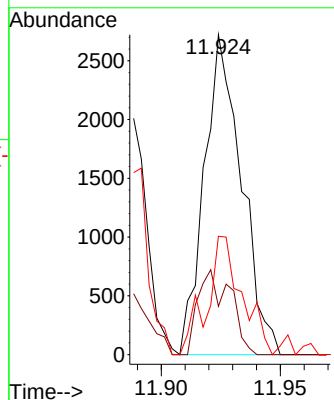
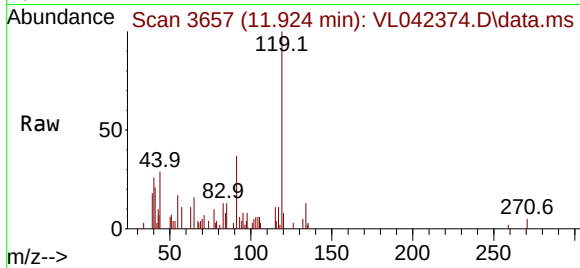




#69
 p-Isopropyltoluene
 Concen: 0.044 ppbv
 RT: 11.924 min Scan# 3657
 Delta R.T. -0.003 min
 Lab File: VL042374.D
 Acq: 18 Apr 2025 00:28

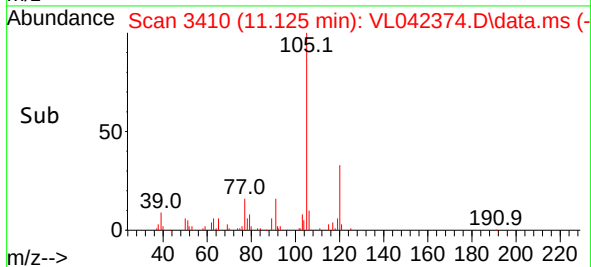
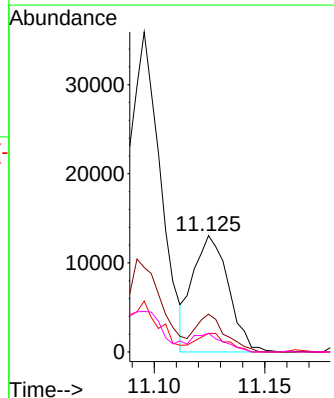
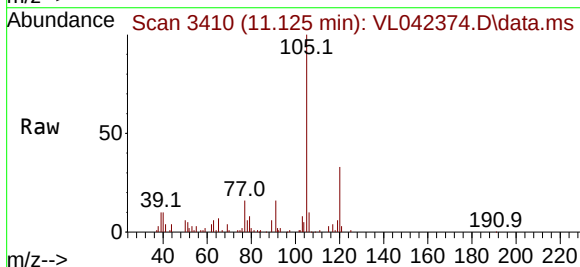
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B1-4-3252025DL

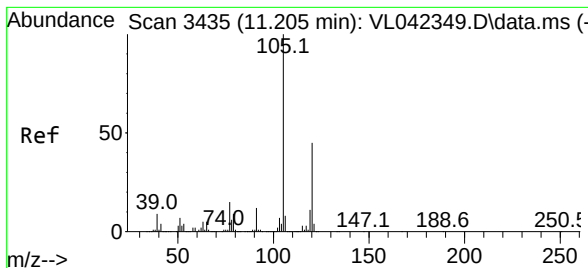
Tgt Ion:119 Resp: 2965
 Ion Ratio Lower Upper
 119 100
 134 23.0 20.0 30.0
 91 37.5 24.4 36.6#



#72
 4-Ethyltoluene
 Concen: 0.289 ppbv
 RT: 11.125 min Scan# 3410
 Delta R.T. 0.000 min
 Lab File: VL042374.D
 Acq: 18 Apr 2025 00:28

Tgt Ion:105 Resp: 14677
 Ion Ratio Lower Upper
 105 100
 120 0.0 23.2 34.8#
 91 0.0 10.4 15.6#
 77 0.0 11.3 16.9#





#73

1,3,5-Trimethylbenzene

Concen: 0.334 ppbv

RT: 11.202 min Scan# 3435

Delta R.T. -0.003 min

Lab File: VL042374.D

Acq: 18 Apr 2025 00:28

Instrument :

MSVOA_1

ClientSampleId :

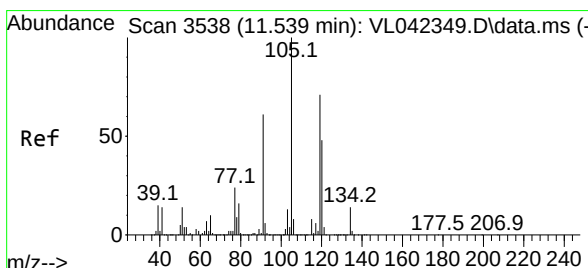
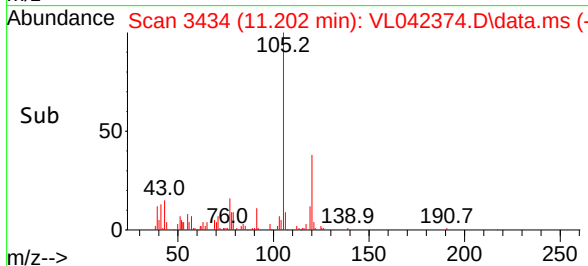
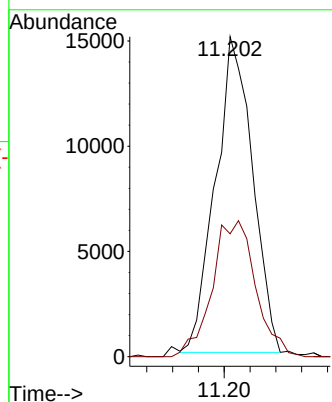
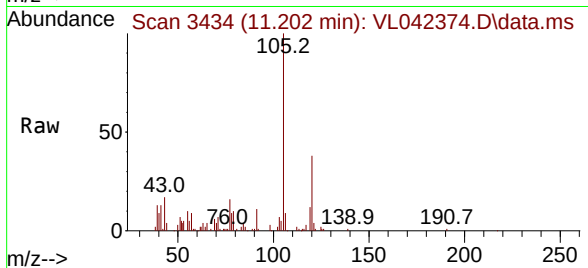
IA-B1-4-3252025DL

Tgt Ion:105 Resp: 14990

Ion Ratio Lower Upper

105 100

120 37.5 35.6 53.4



#74

1,2,4-Trimethylbenzene

Concen: 1.062 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. -0.003 min

Lab File: VL042374.D

Acq: 18 Apr 2025 00:28

Tgt Ion:105 Resp: 55625

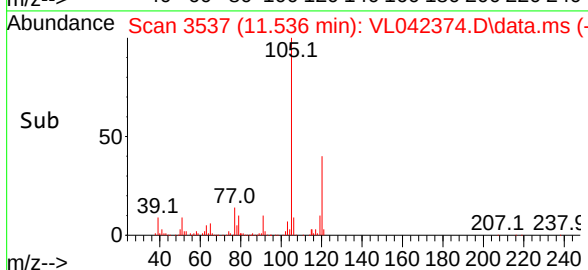
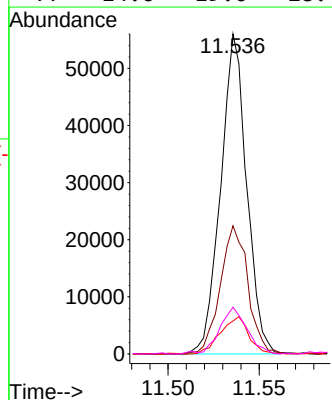
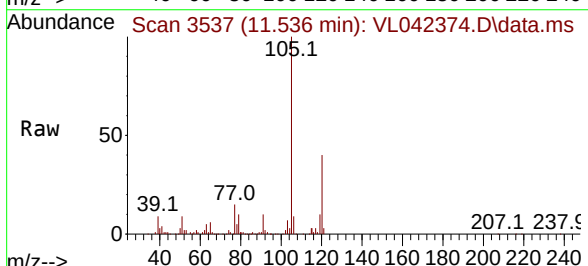
Ion Ratio Lower Upper

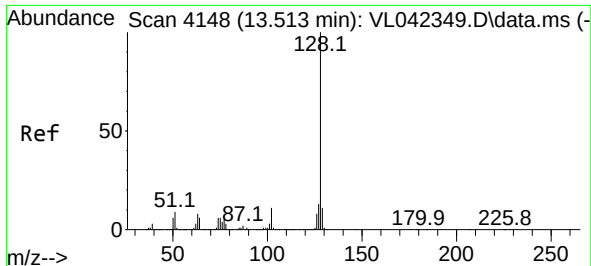
105 100

120 40.1 38.1 57.1

91 10.2 48.8 73.2#

77 14.6 19.0 28.4#

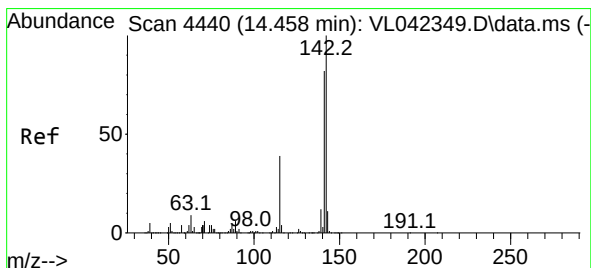
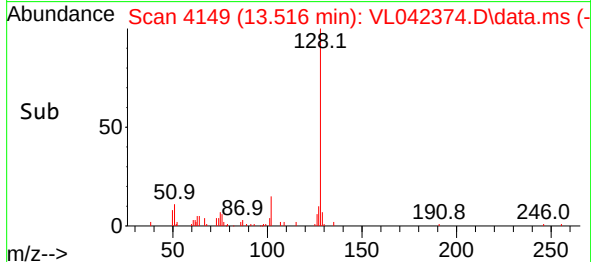
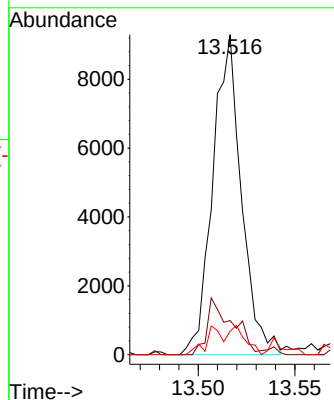
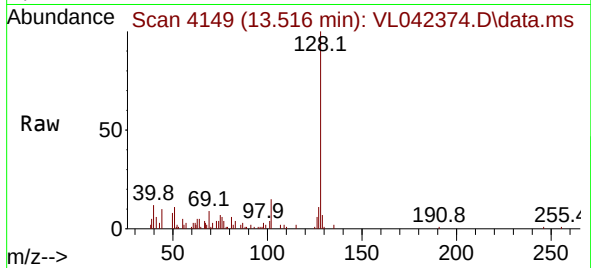




#79
Naphthalene
Concen: 0.153 ppbv
RT: 13.516 min Scan# 4148
Delta R.T. 0.003 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

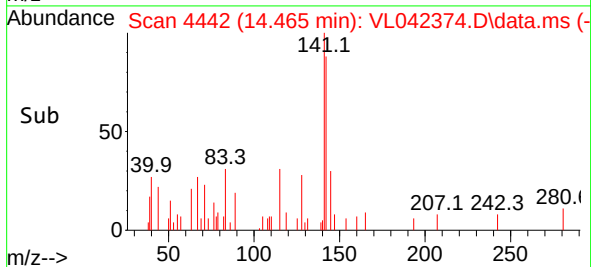
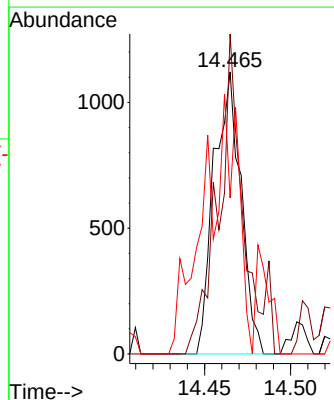
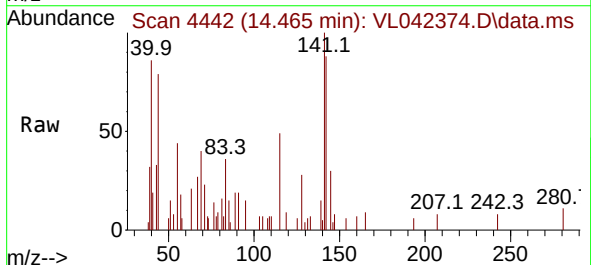
Instrument :
MSVOA_1
ClientSampleId :
IA-B1-4-3252025DL

Tgt Ion:128 Resp: 9572
Ion Ratio Lower Upper
128 100
127 10.6 10.6 15.8
129 7.3 8.6 12.8#



#80
Naphthalene,2-methyl-
Concen: 0.034 ppbv
RT: 14.465 min Scan# 4442
Delta R.T. 0.007 min
Lab File: VL042374.D
Acq: 18 Apr 2025 00:28

Tgt Ion:142 Resp: 1218
Ion Ratio Lower Upper
142 100
141 105.7 66.8 100.2#
115 134.5 33.4 50.2#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042375.D
 Acq On : 18 Apr 2025 00:59
 Operator : SY/MD
 Sample : Q1668-03DL 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B1-3-3252025DL

Quant Time: Apr 18 04:38:48 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 02:14:00 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	102685	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	291278	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	253844	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	212240	10.175	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.700%

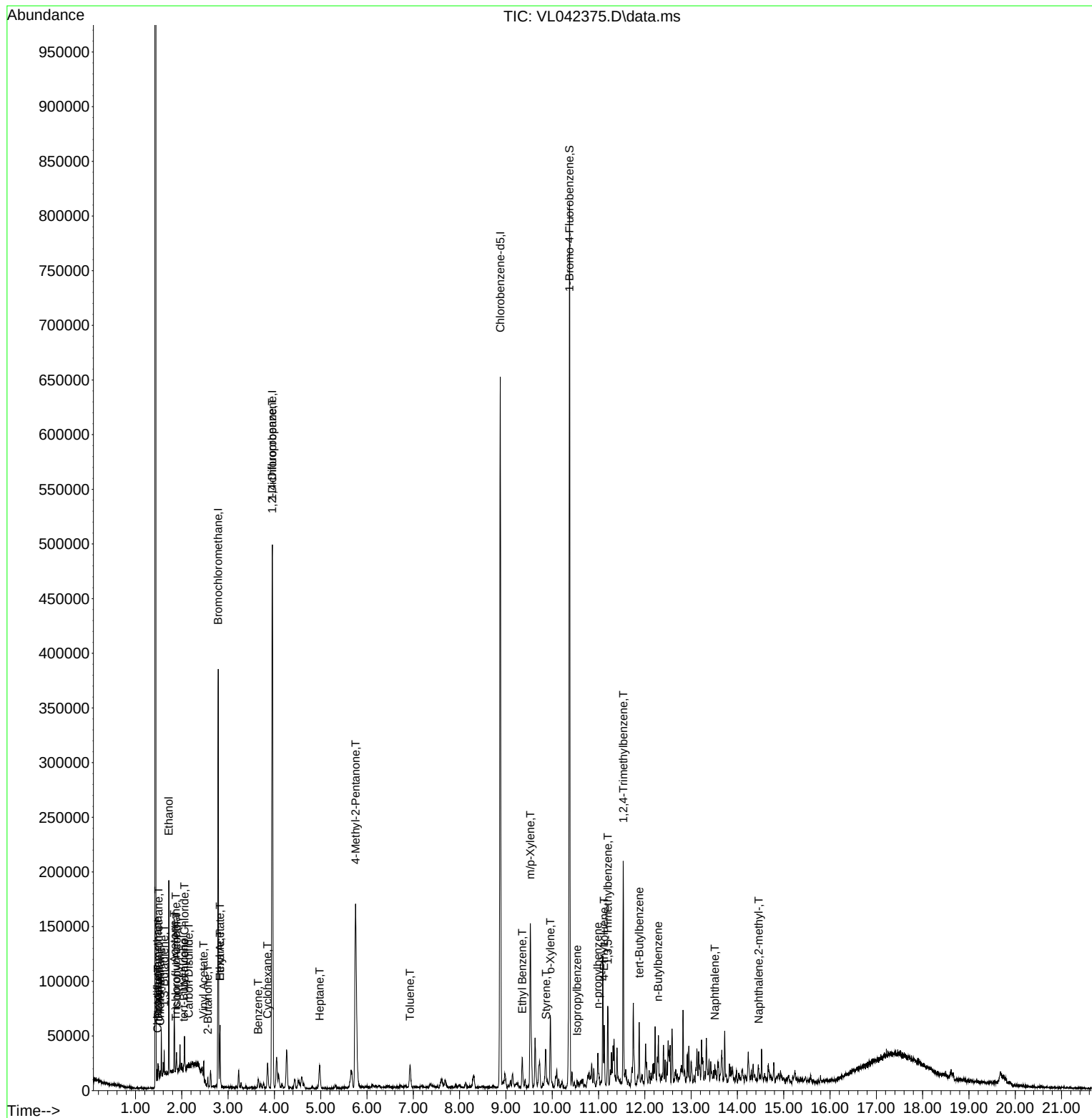
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	2776	0.153	ppbv	95
3) Chlorodifluoromethane	1.476	51	2764	0.160	ppbv	97
4) Chloromethane	1.531	50	1399	0.195	ppbv #	59
9) Propene	1.486	41	1821	0.231	ppbv	93
10) Heptane	4.978	43	9132	0.413	ppbv	97
11) Trichlorofluoromethane	1.874	101	1281	0.074	ppbv	90
13) Ethanol	1.719	45	62213	49.750	ppbv	76
15) Acetone	1.835	43	27092	1.612	ppbv	99
16) 1,3-Butadiene	1.619	39	1244	0.155	ppbv #	42
17) tert-Butyl alcohol	2.043	59	976	0.047	ppbv #	1
19) Isopropyl Alcohol	1.887	45	6854	0.734	ppbv #	1
20) Methylene Chloride	2.059	84	4314	0.655	ppbv #	91
23) Vinyl Acetate	2.470	43	7447	1.094	ppbv #	51
25) Ethyl Acetate	2.826	43	9332	0.225	ppbv #	78
26) Hexane	2.826	57	13454	0.802	ppbv #	34
27) Carbon Disulfide	2.149	76	1143	0.064	ppbv #	1
30) Cyclohexane	3.852	84	6275	0.463	ppbv #	89
34) 2-Butanone	2.560	43	4829	0.210	ppbv	92
36) Benzene	3.651	78	2897	0.092	ppbv #	85
39) 1,2-Dichloropropane	3.952	63	80069	6.839	ppbv #	23
50) 4-Methyl-2-Pentanone	5.755	43	153256	4.003	ppbv	98
53) Toluene	6.930	91	8749	0.232	ppbv #	56
58) Ethyl Benzene	9.354	91	14757	0.293	ppbv	95
59) m/p-Xylene	9.529	91	84682	2.090	ppbv	99
60) o-Xylene	9.963	91	28511	0.699	ppbv	100
61) Styrene	9.869	104	3276	0.168	ppbv #	88
62) Isopropylbenzene	10.536	105	1800	0.030	ppbv #	71
64) n-propylbenzene	10.985	120	2319	0.154	ppbv #	52
65) tert-Butylbenzene	11.879	119	4345	0.079	ppbv	97
70) n-Butylbenzene	12.287	91	5965	0.086	ppbv #	80
72) 4-Ethyltoluene	11.121	105	17311	0.347	ppbv #	56
73) 1,3,5-Trimethylbenzene	11.202	105	20692	0.470	ppbv	100
74) 1,2,4-Trimethylbenzene	11.536	105	73024	1.420	ppbv #	61
79) Naphthalene	13.510	128	6160	0.100	ppbv #	96
80) Naphthalene,2-methyl-	14.458	142	1863	0.053	ppbv #	45

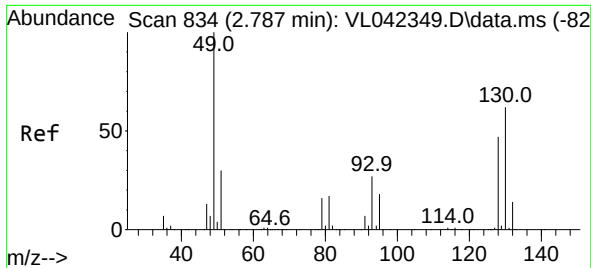
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042375.D
Acq On : 18 Apr 2025 00:59
Operator : SY/MD
Sample : Q1668-03DL 4X
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025DL

Quant Time: Apr 18 04:38:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 2.787 min Scan# 834

Delta R.T. 0.000 min

Lab File: VL042375.D

Acq: 18 Apr 2025 00:59

Instrument :

MSVOA_L

ClientSampleId :

IA-B1-3-3252025DL

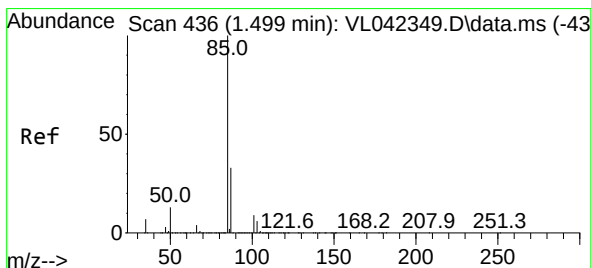
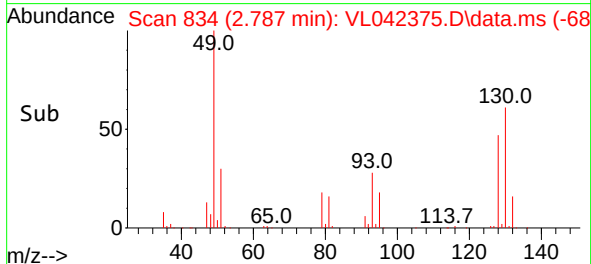
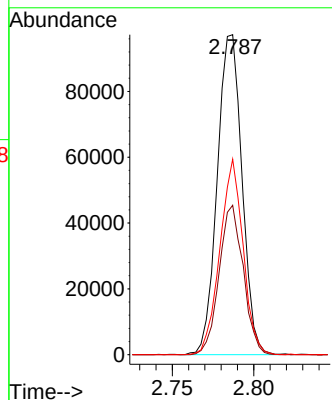
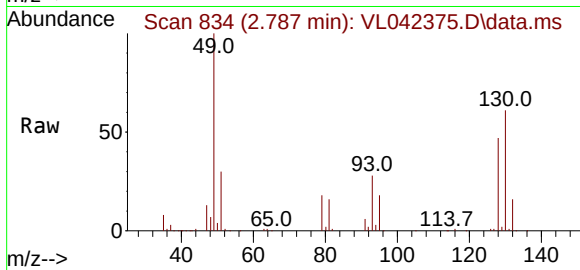
Tgt Ion: 49 Resp: 102685

Ion Ratio Lower Upper

49 100

128 45.4 22.8 68.4

130 57.2 29.3 88.0



#2

Dichlorodifluoromethane

Concen: 0.153 ppbv

RT: 1.499 min Scan# 436

Delta R.T. 0.000 min

Lab File: VL042375.D

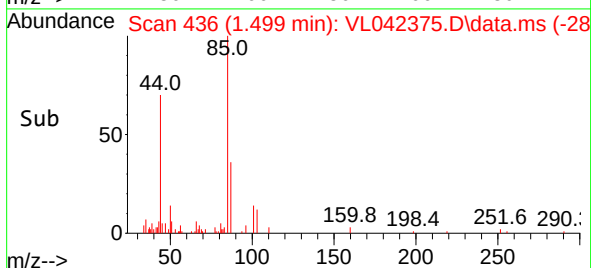
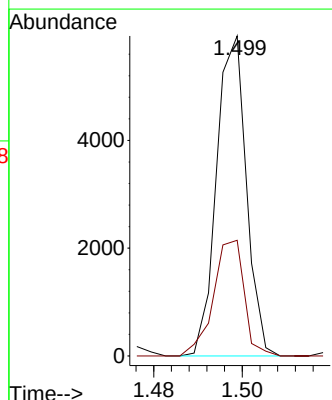
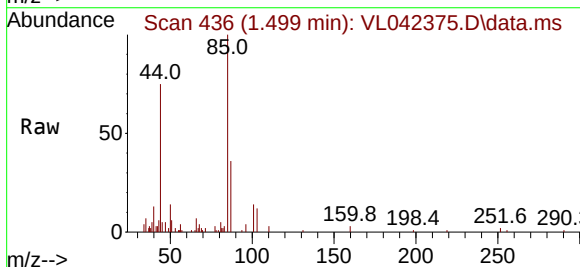
Acq: 18 Apr 2025 00:59

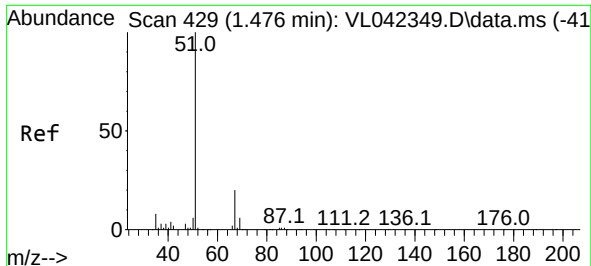
Tgt Ion: 85 Resp: 2776

Ion Ratio Lower Upper

85 100

87 36.2 26.6 39.8

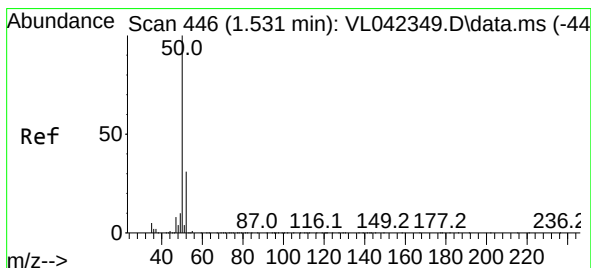
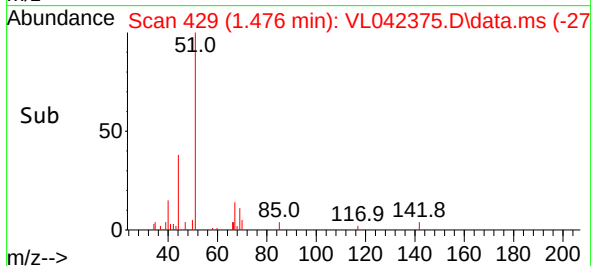
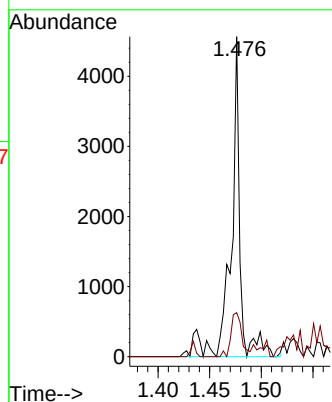
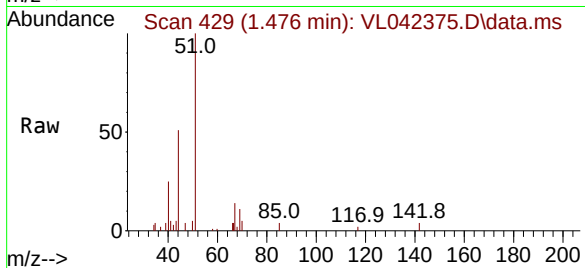




#3
Chlorodifluoromethane
Concen: 0.160 ppbv
RT: 1.476 min Scan# 429
Delta R.T. 0.000 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

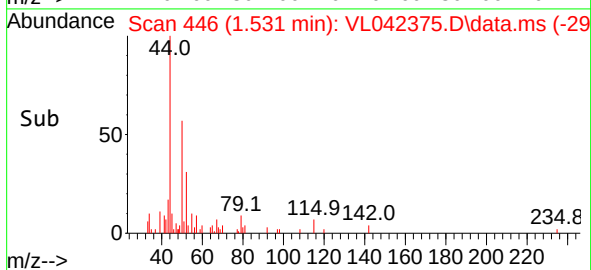
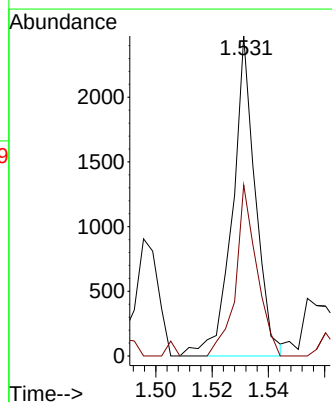
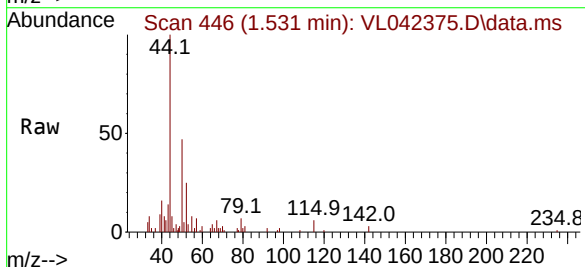
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025DL

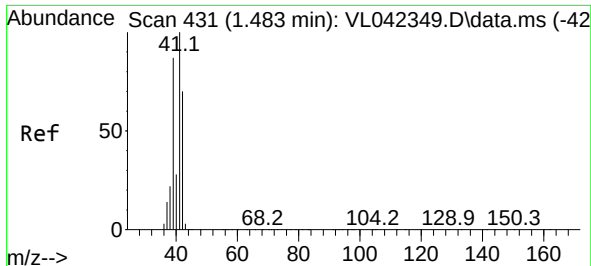
Tgt Ion: 51 Resp: 2764
Ion Ratio Lower Upper
51 100
67 21.7 16.2 24.4



#4
Chloromethane
Concen: 0.195 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Tgt Ion: 50 Resp: 1399
Ion Ratio Lower Upper
50 100
52 53.5 24.7 37.1#





#9

Propene

Concen: 0.231 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042375.D

Acq: 18 Apr 2025 00:59

Instrument :

MSVOA_L

ClientSampleId :

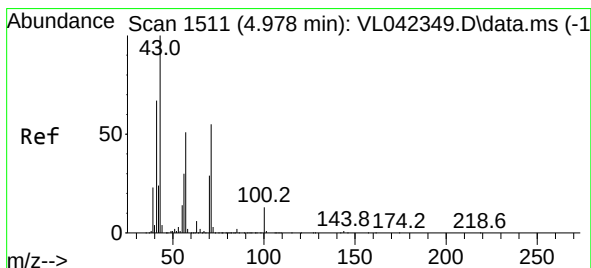
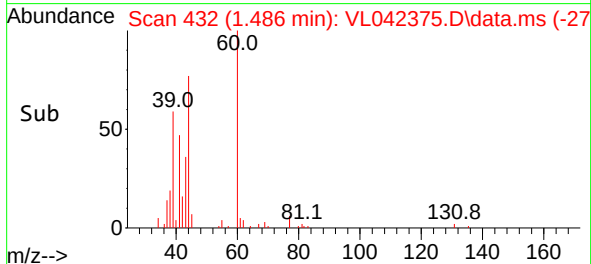
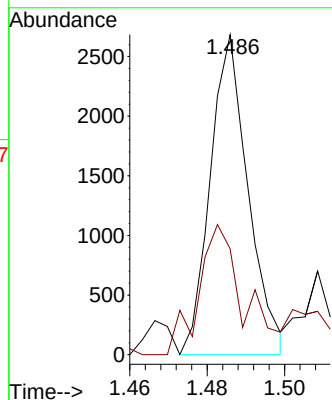
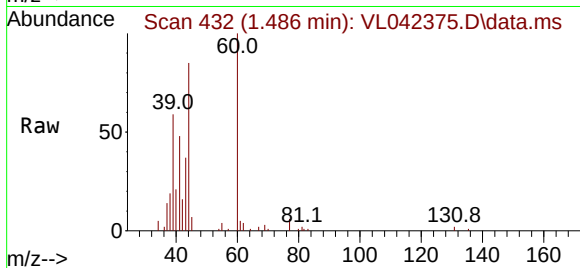
IA-B1-3-3252025DL

Tgt Ion: 41 Resp: 1821

Ion Ratio Lower Upper

41 100

42 64.4 56.2 84.4



#10

Heptane

Concen: 0.413 ppbv

RT: 4.978 min Scan# 1511

Delta R.T. 0.000 min

Lab File: VL042375.D

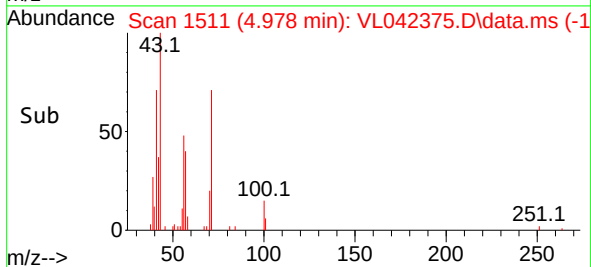
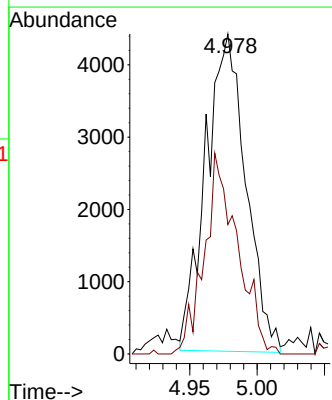
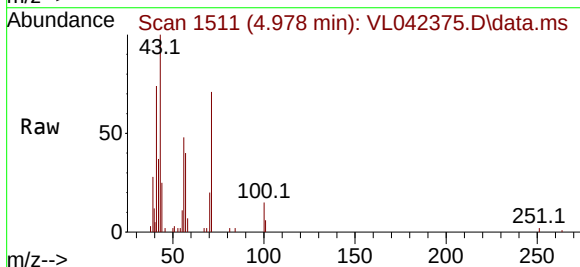
Acq: 18 Apr 2025 00:59

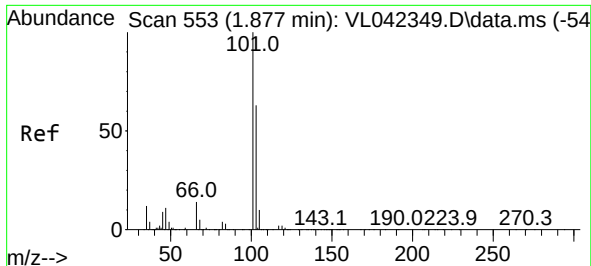
Tgt Ion: 43 Resp: 9132

Ion Ratio Lower Upper

43 100

57 52.1 39.9 59.9





#11

Trichlorofluoromethane

Concen: 0.074 ppbv

RT: 1.874 min Scan# 511

Delta R.T. -0.003 min

Lab File: VL042375.D

Acq: 18 Apr 2025 00:59

Instrument :

MSVOA_L

ClientSampleId :

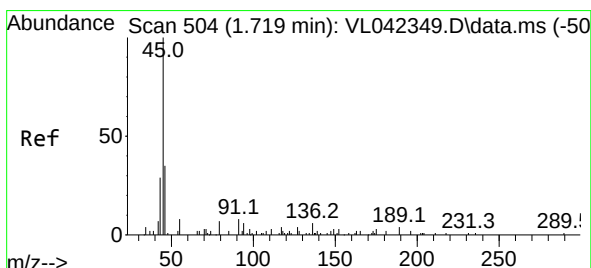
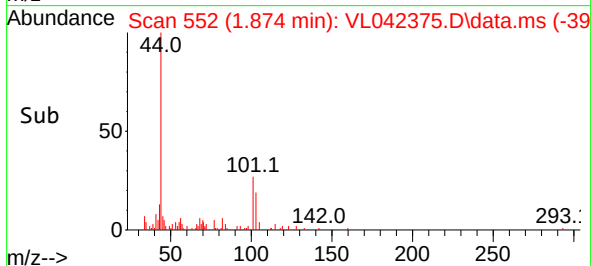
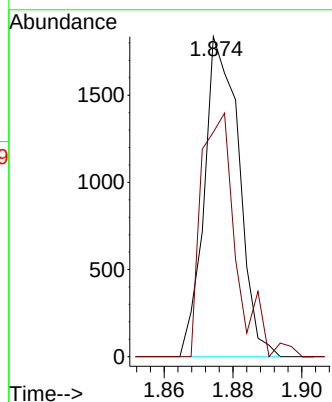
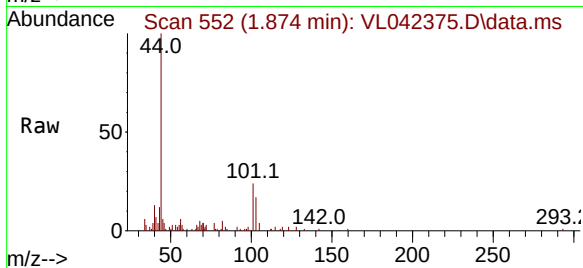
IA-B1-3-3252025DL

Tgt Ion:101 Resp: 1281

Ion Ratio Lower Upper

101 100

103 70.2 50.1 75.1



#13

Ethanol

Concen: 49.750 ppbv

RT: 1.719 min Scan# 504

Delta R.T. 0.000 min

Lab File: VL042375.D

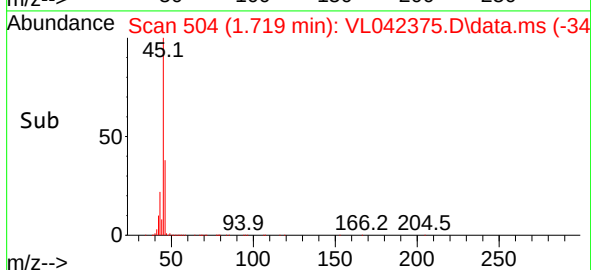
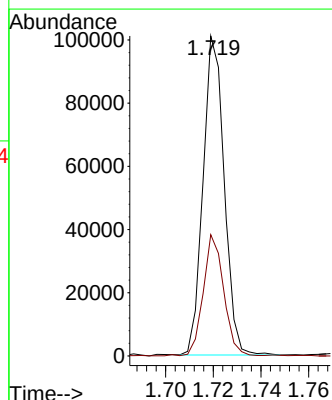
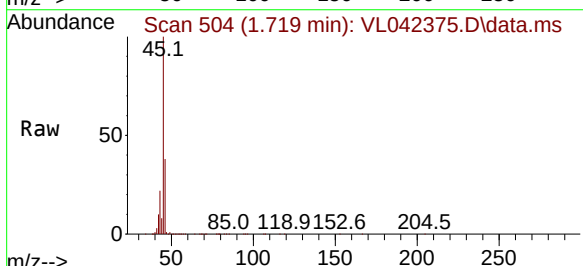
Acq: 18 Apr 2025 00:59

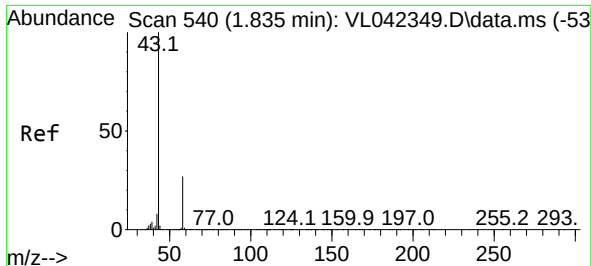
Tgt Ion: 45 Resp: 62213

Ion Ratio Lower Upper

45 100

46 37.6 21.9 87.7

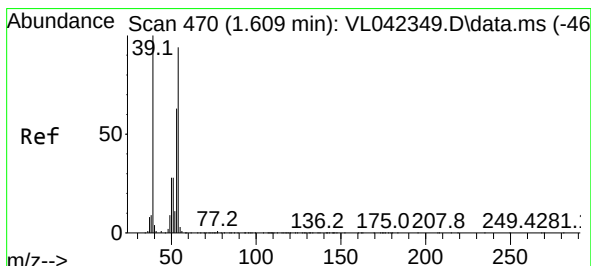
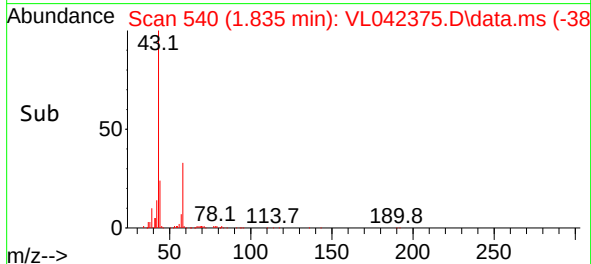
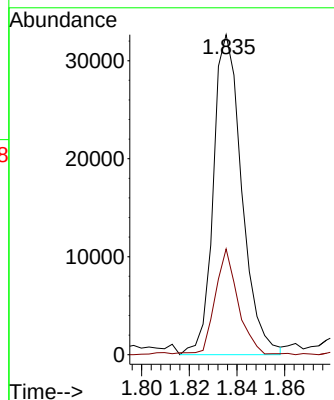
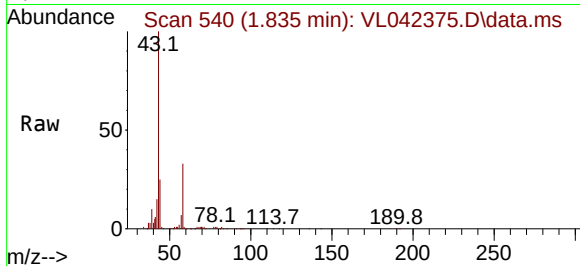




#15
Acetone
Concen: 1.612 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

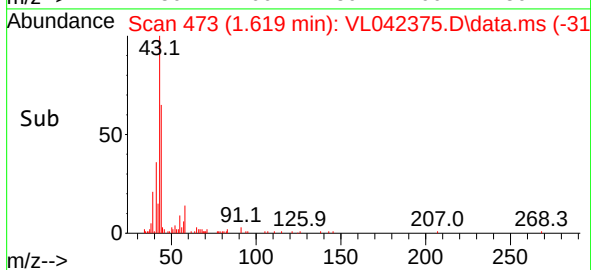
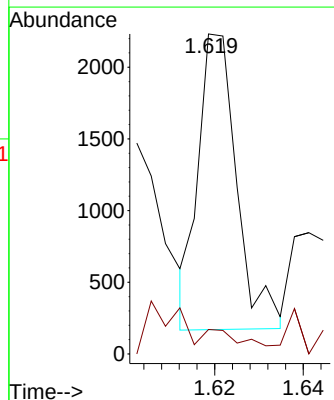
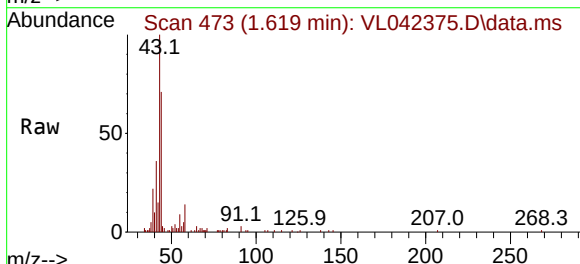
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025DL

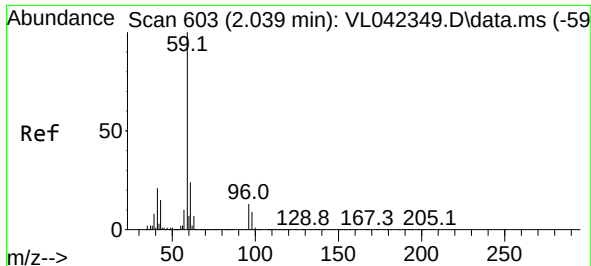
Tgt Ion: 43 Resp: 27092
Ion Ratio Lower Upper
43 100
58 27.4 22.4 33.6



#16
1,3-Butadiene
Concen: 0.155 ppbv
RT: 1.619 min Scan# 473
Delta R.T. 0.010 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Tgt Ion: 39 Resp: 1244
Ion Ratio Lower Upper
39 100
54 29.6 64.9 97.3#

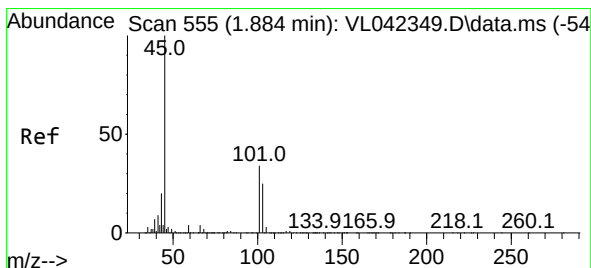
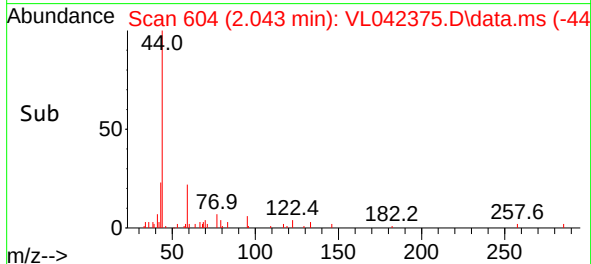
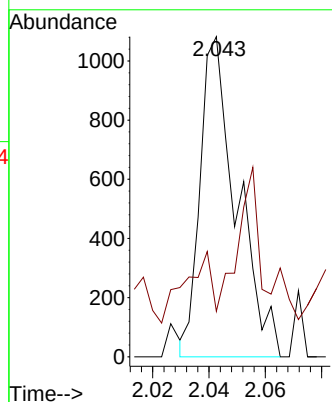
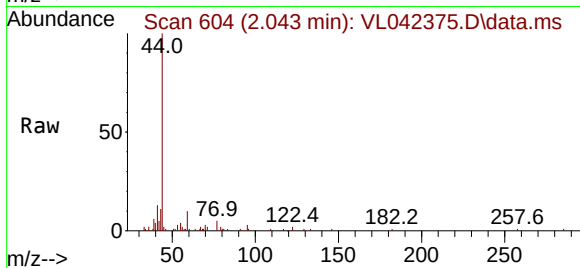




#17
tert-Butyl alcohol
Concen: 0.047 ppbv
RT: 2.043 min Scan# 603
Delta R.T. 0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

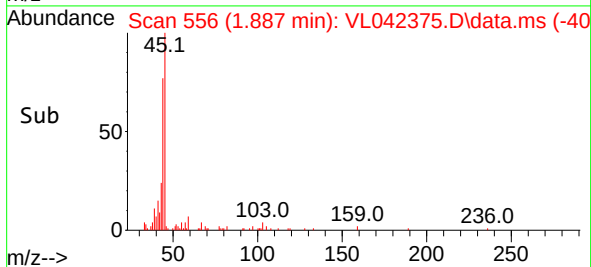
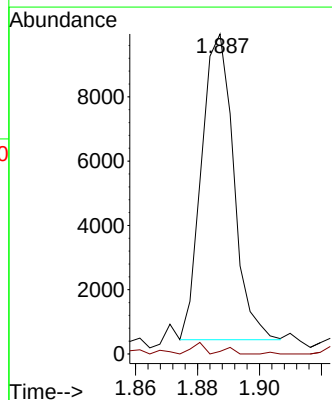
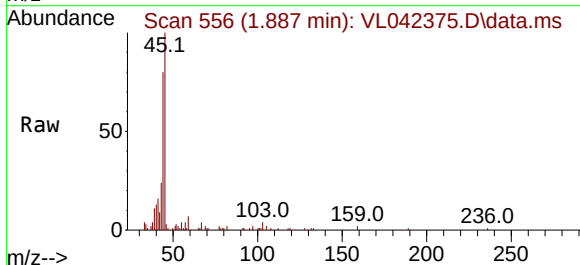
Instrument :
MSVOA_1
ClientSampleId :
IA-B1-3-3252025DL

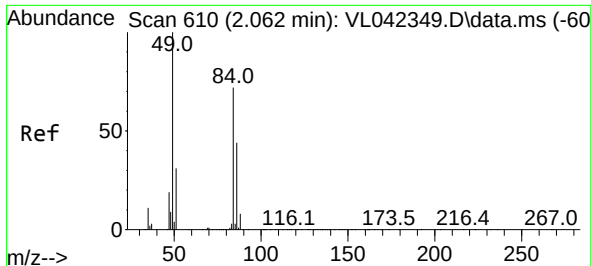
Tgt Ion: 59 Resp: 976
Ion Ratio Lower Upper
59 100
57 80.8 8.7 13.1#



#19
Isopropyl Alcohol
Concen: 0.734 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Tgt Ion: 45 Resp: 6854
Ion Ratio Lower Upper
45 100
58 108.5 34.5 51.7#

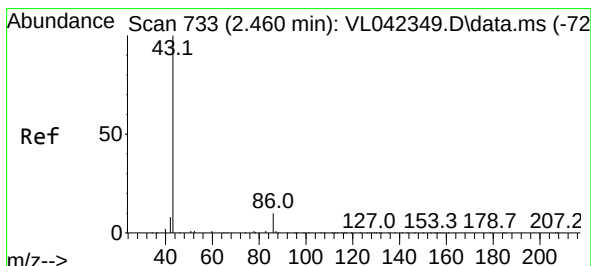
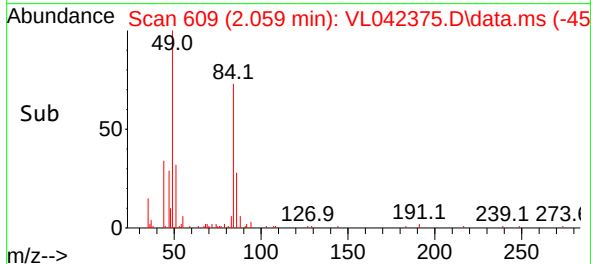
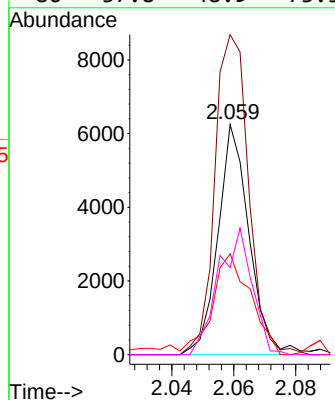
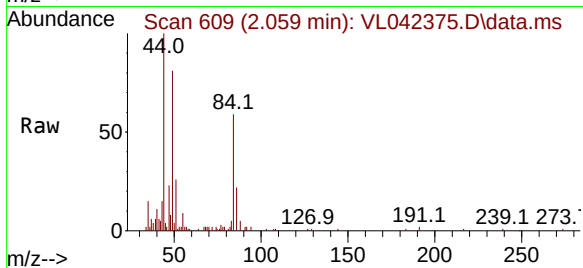




#20
Methylene Chloride
Concen: 0.655 ppbv
RT: 2.059 min Scan# 610
Delta R.T. -0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

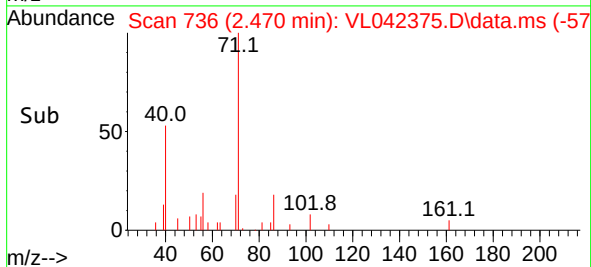
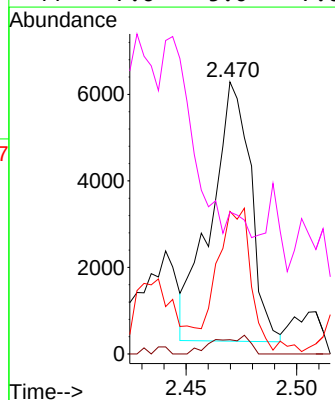
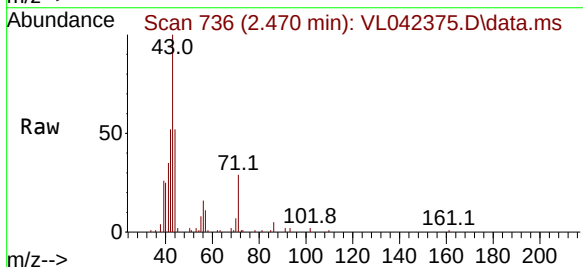
Instrument :
MSVOA_1
ClientSampleId :
IA-B1-3-3252025DL

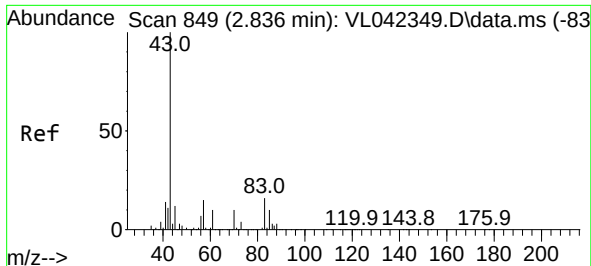
Tgt Ion:	84	Resp:	4314
Ion	Ratio	Lower	Upper
84	100		
49	138.9	111.6	167.4
51	41.7	35.1	52.7
86	37.8	48.9	73.3#



#23
Vinyl Acetate
Concen: 1.094 ppbv
RT: 2.470 min Scan# 736
Delta R.T. 0.010 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Tgt Ion:	43	Resp:	7447
Ion	Ratio	Lower	Upper
43	100		
86	5.7	6.5	9.7#
42	51.4	7.8	11.8#
44	7.6	5.0	7.6#

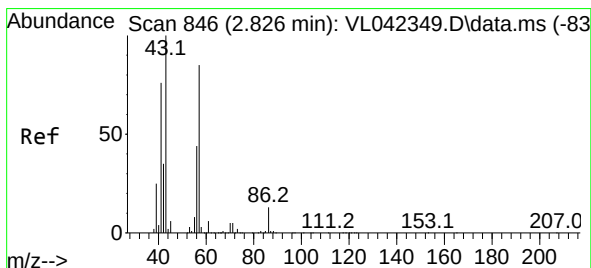
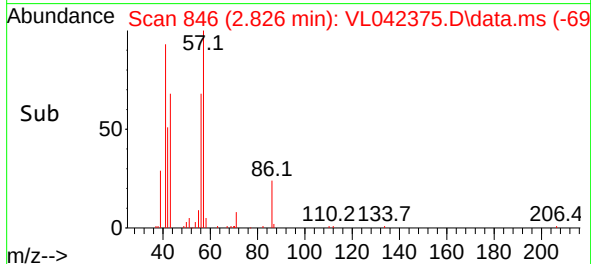
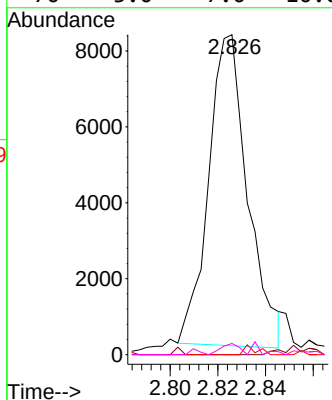
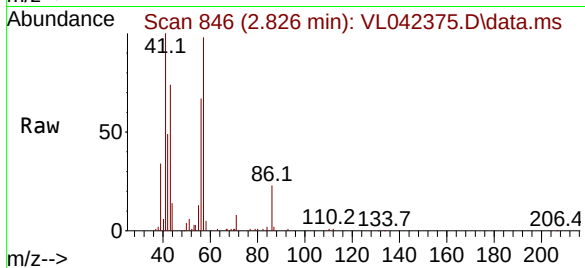




#25
Ethyl Acetate
Concen: 0.225 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.010 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

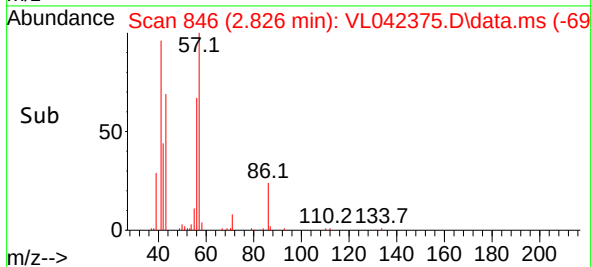
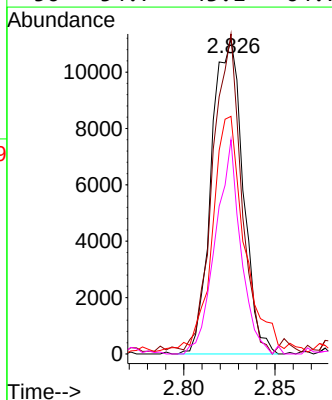
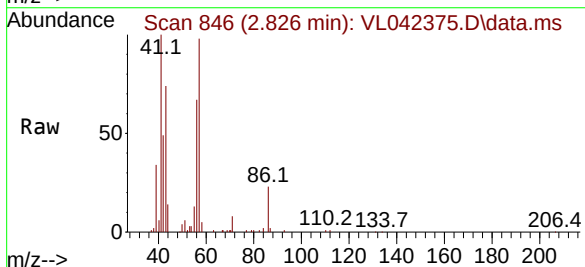
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025DL

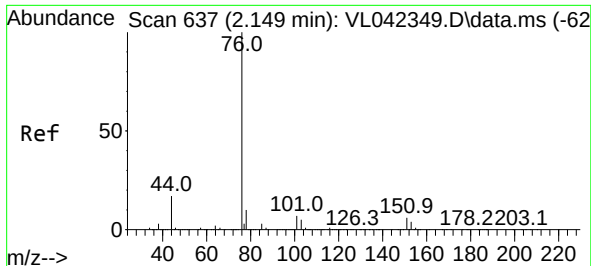
Tgt Ion: 43	Resp: 9332
Ion Ratio	Lower Upper
43 100	
45 0.4	8.3 12.5#
61 1.0	7.3 10.9#
70 3.0	7.0 10.6#



#26
Hexane
Concen: 0.802 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Tgt Ion: 57	Resp: 13454
Ion Ratio	Lower Upper
57 100	
41 91.8	77.9 116.9
43 78.3	208.4 312.6#
56 54.7	43.1 64.7

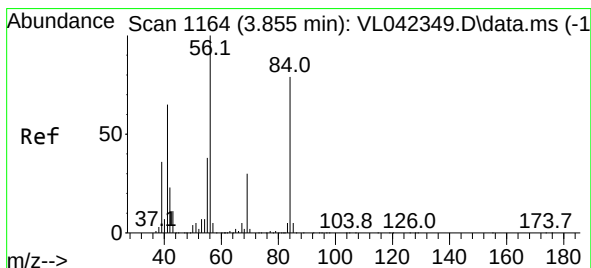
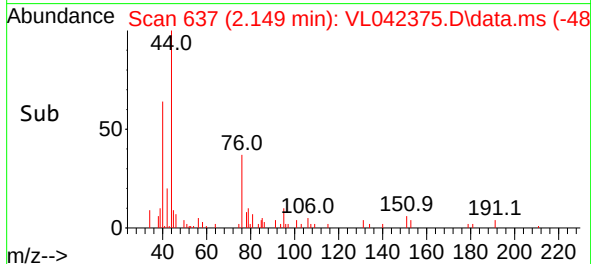
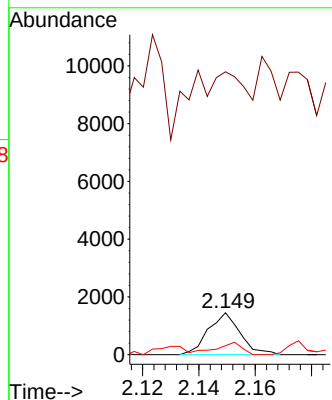
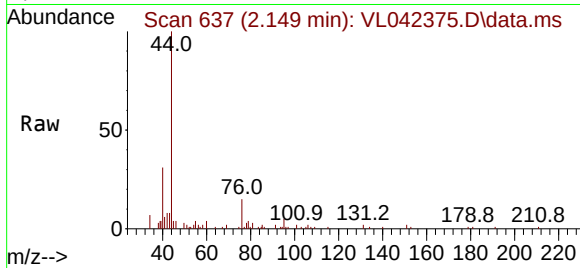




#27
Carbon Disulfide
Concen: 0.064 ppbv
RT: 2.149 min Scan# 61
Delta R.T. 0.000 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

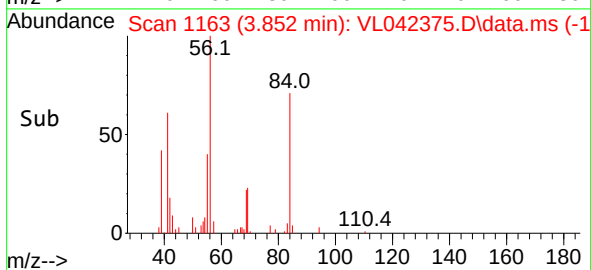
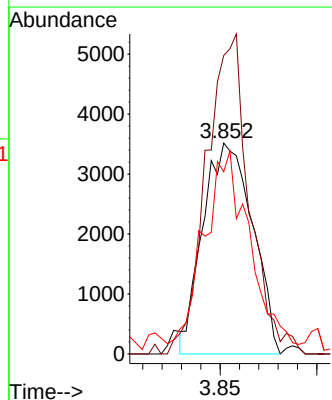
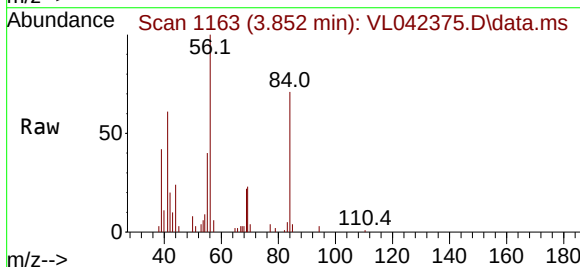
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025DL

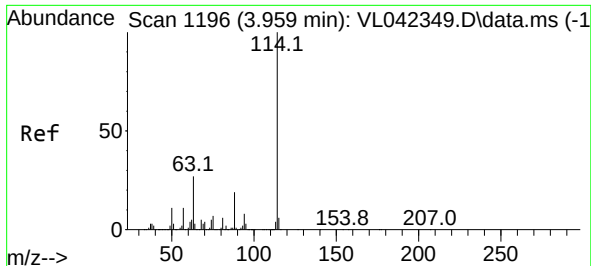
Tgt Ion: 76 Resp: 1143
Ion Ratio Lower Upper
76 100
44 1575.8 15.5 23.3#
78 47.1 9.3 13.9#



#30
Cyclohexane
Concen: 0.463 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. -0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Tgt Ion: 84 Resp: 6275
Ion Ratio Lower Upper
84 100
56 131.3 101.0 151.4
41 103.5 67.4 101.0#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.955 min Scan# 1195

Delta R.T. -0.003 min

Lab File: VL042375.D

Acq: 18 Apr 2025 00:59

Instrument :

MSVOA_L

ClientSampleId :

IA-B1-3-3252025DL

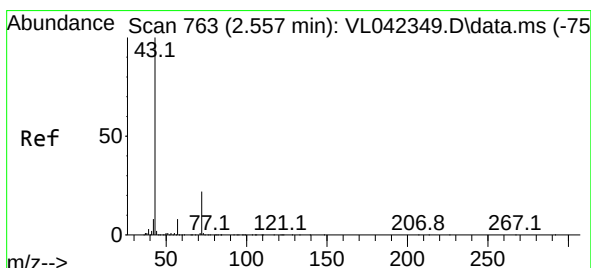
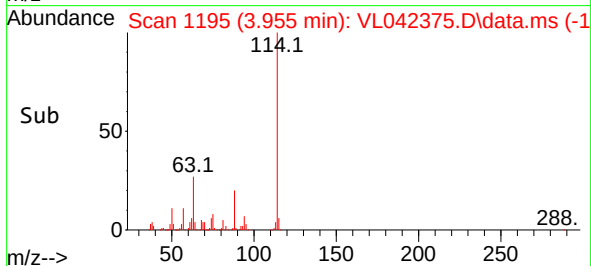
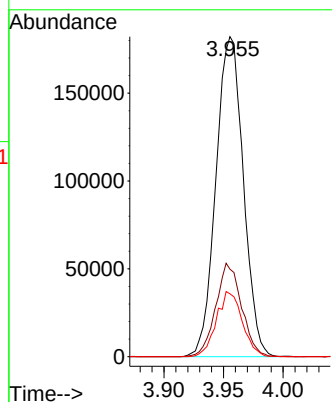
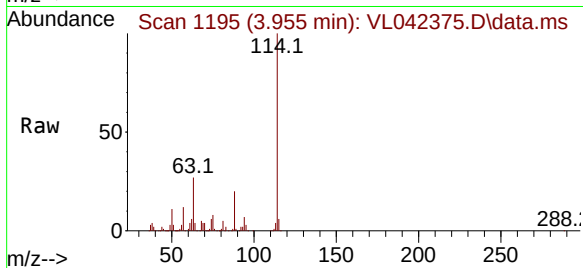
Tgt Ion:114 Resp: 291278

Ion Ratio Lower Upper

114 100

63 27.5 21.8 32.6

88 19.2 15.5 23.3



#34

2-Butanone

Concen: 0.210 ppbv

RT: 2.560 min Scan# 764

Delta R.T. 0.003 min

Lab File: VL042375.D

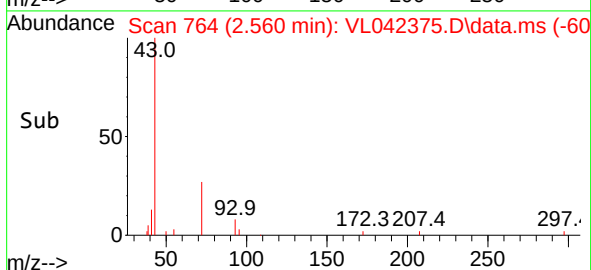
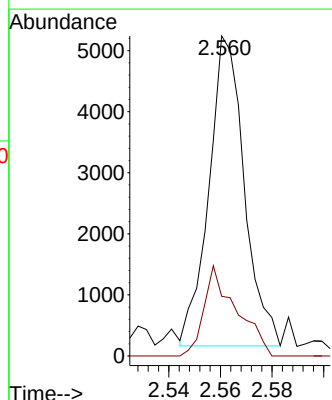
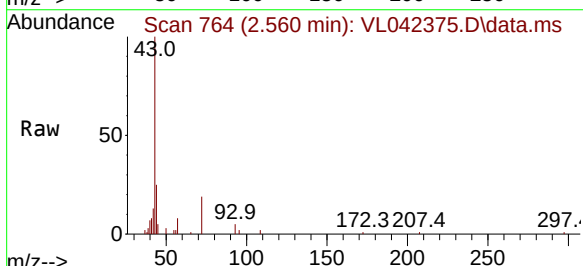
Acq: 18 Apr 2025 00:59

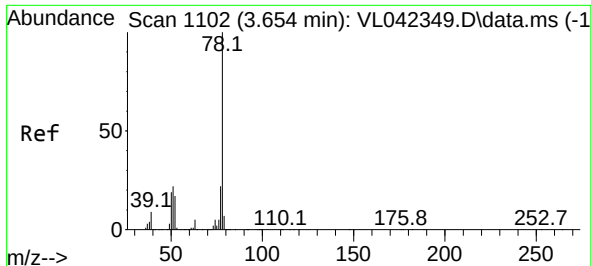
Tgt Ion: 43 Resp: 4829

Ion Ratio Lower Upper

43 100

72 26.7 18.2 27.2

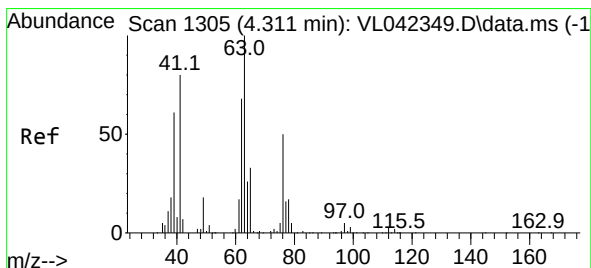
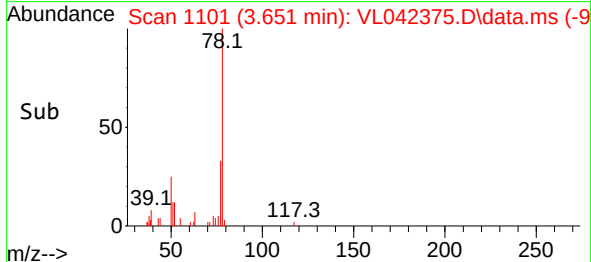
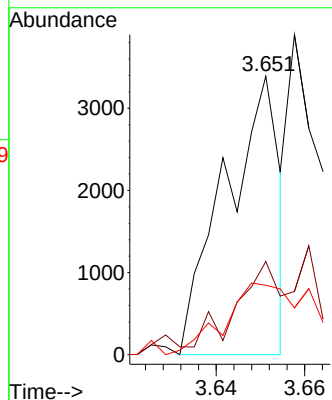
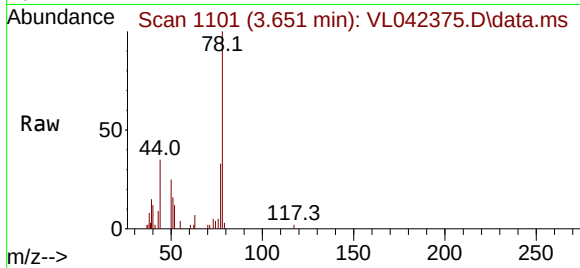




#36
Benzene
Concen: 0.092 ppbv
RT: 3.651 min Scan# 1102
Delta R.T. -0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

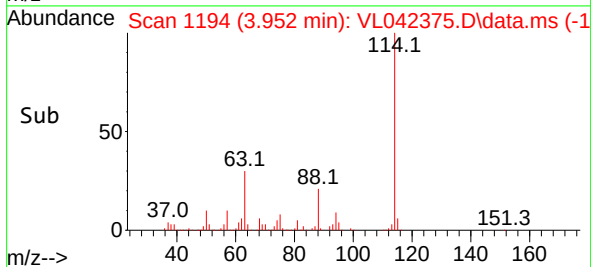
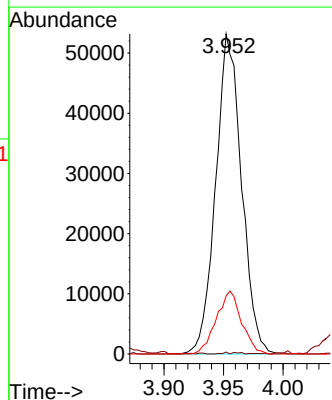
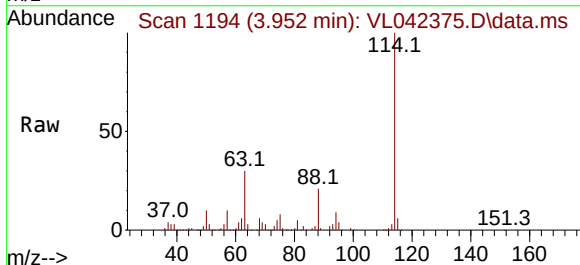
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025DL

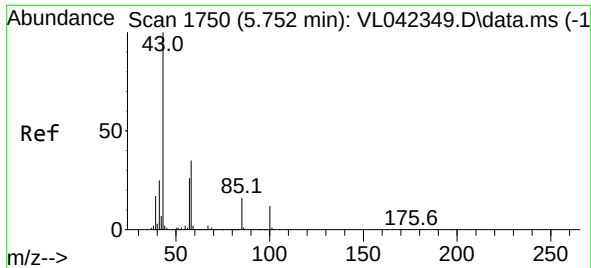
Tgt Ion: 78 Resp: 2897
Ion Ratio Lower Upper
78 100
77 31.3 17.4 26.0#
50 23.8 15.5 23.3#



#39
1,2-Dichloropropane
Concen: 6.839 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. -0.359 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Tgt Ion: 63 Resp: 80069
Ion Ratio Lower Upper
63 100
41 0.6 64.2 96.2#
62 18.1 54.3 81.5#

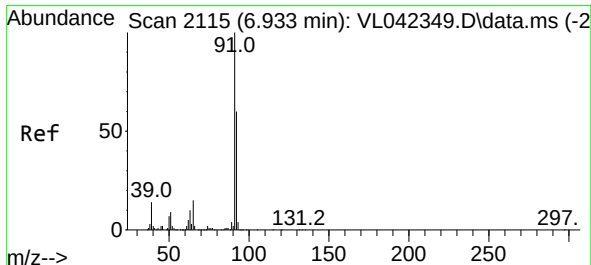
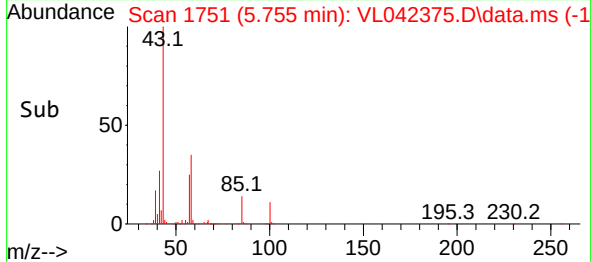
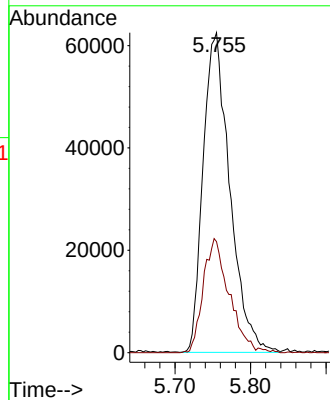
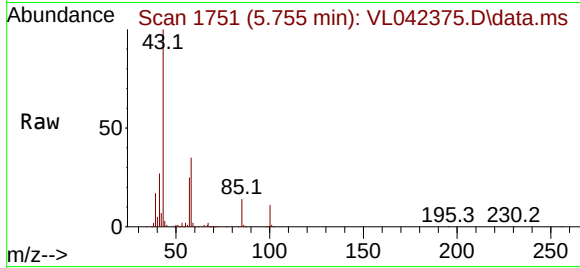




#50
 4-Methyl-2-Pentanone
 Concen: 4.003 ppbv
 RT: 5.755 min Scan# 1751
 Delta R.T. 0.003 min
 Lab File: VL042375.D
 Acq: 18 Apr 2025 00:59

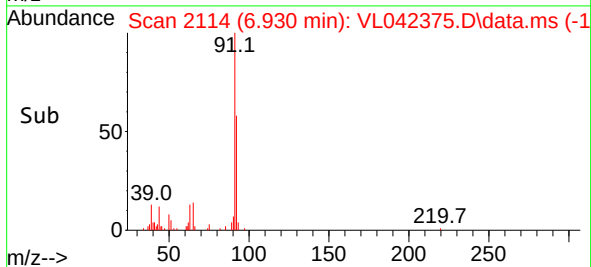
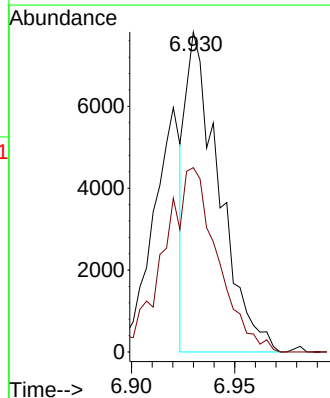
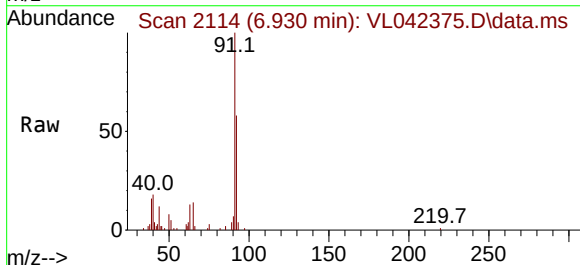
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B1-3-3252025DL

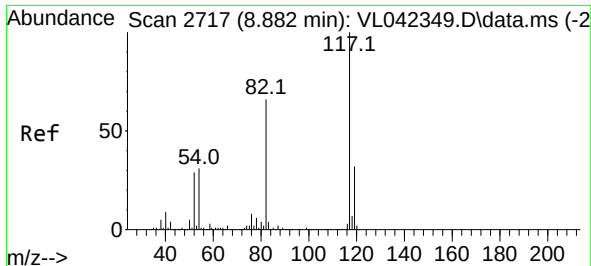
Tgt Ion: 43 Resp: 153256
 Ion Ratio Lower Upper
 43 100
 58 34.9 28.6 43.0



#53
 Toluene
 Concen: 0.232 ppbv
 RT: 6.930 min Scan# 2114
 Delta R.T. -0.003 min
 Lab File: VL042375.D
 Acq: 18 Apr 2025 00:59

Tgt Ion: 91 Resp: 8749
 Ion Ratio Lower Upper
 91 100
 92 93.5 48.2 72.4#

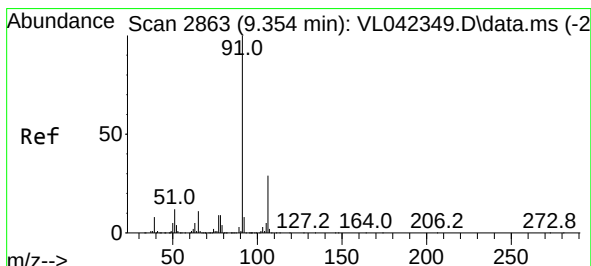
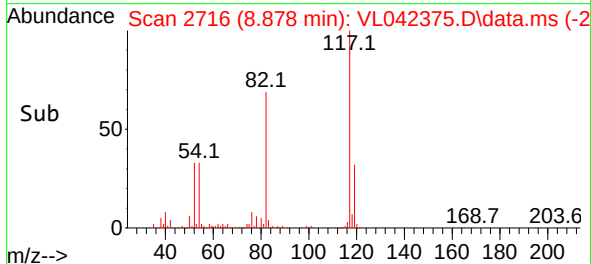
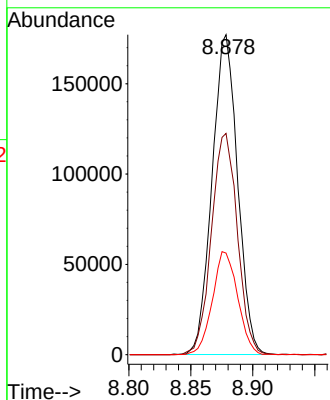
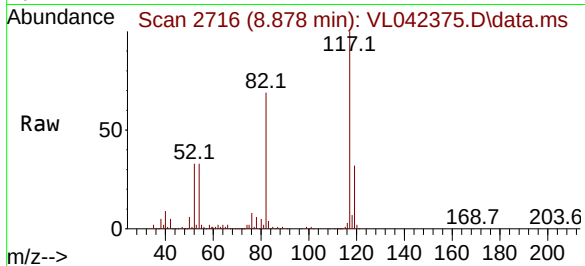




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

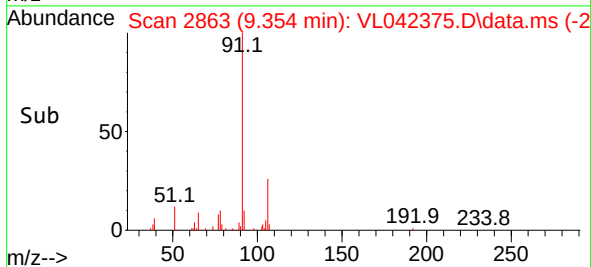
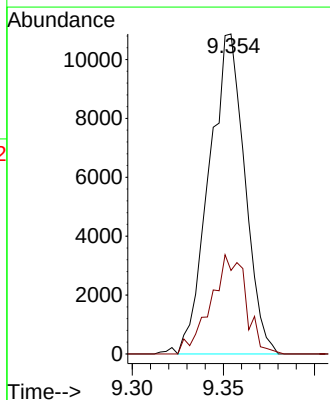
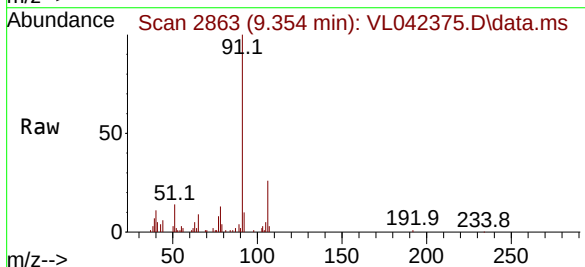
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025DL

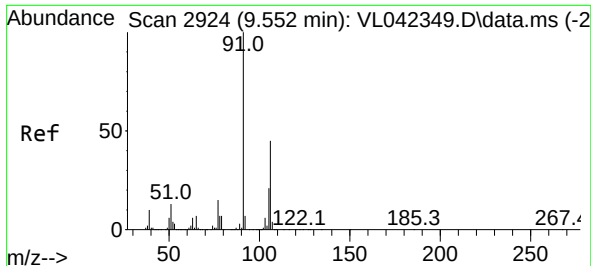
Tgt Ion: 117 Resp: 253844
Ion Ratio Lower Upper
117 100
82 70.3 57.8 86.6
119 32.0 25.2 37.8



#58
Ethyl Benzene
Concen: 0.293 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.000 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Tgt Ion: 91 Resp: 14757
Ion Ratio Lower Upper
91 100
106 26.1 23.0 34.4





#59

m/p-Xylene

Concen: 2.090 ppbv

RT: 9.529 min Scan# 2917

Delta R.T. -0.023 min

Lab File: VL042375.D

Acq: 18 Apr 2025 00:59

Instrument :

MSVOA_L

ClientSampleId :

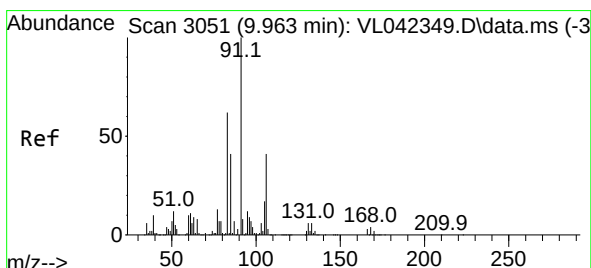
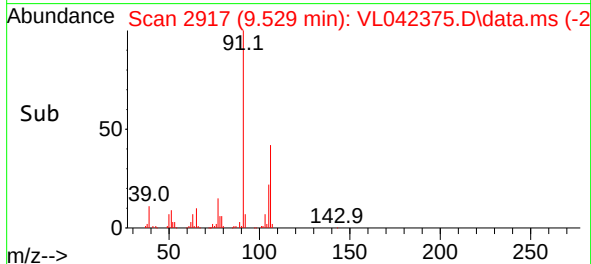
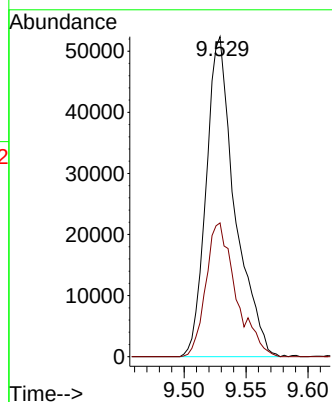
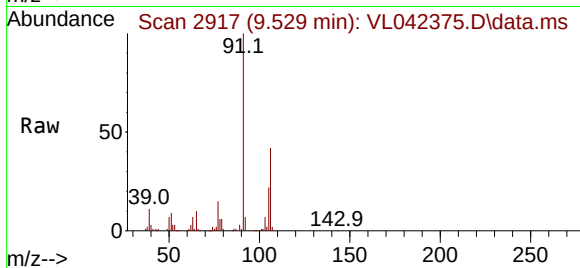
IA-B1-3-3252025DL

Tgt Ion: 91 Resp: 84682

Ion Ratio Lower Upper

91 100

106 43.6 35.4 53.2



#60

o-Xylene

Concen: 0.699 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. 0.000 min

Lab File: VL042375.D

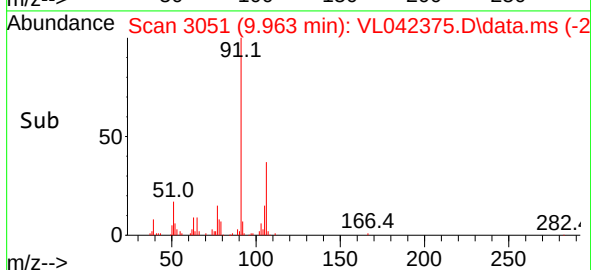
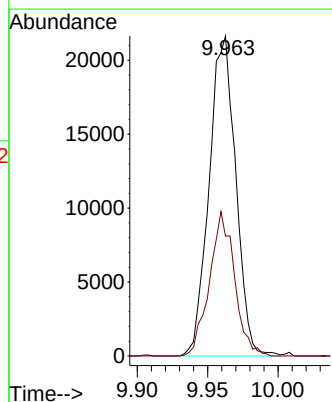
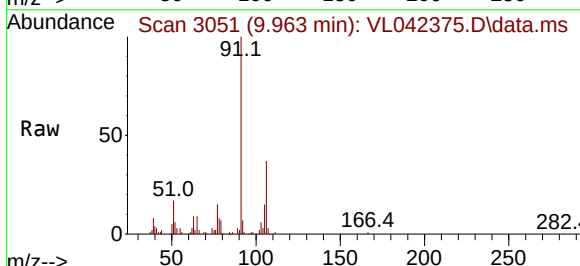
Acq: 18 Apr 2025 00:59

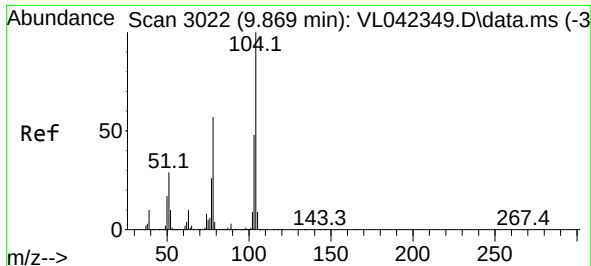
Tgt Ion: 91 Resp: 28511

Ion Ratio Lower Upper

91 100

106 42.5 21.1 63.4





#61

Styrene

Concen: 0.168 ppbv

RT: 9.869 min Scan# 3022

Delta R.T. 0.000 min

Lab File: VL042375.D

Acq: 18 Apr 2025 00:59

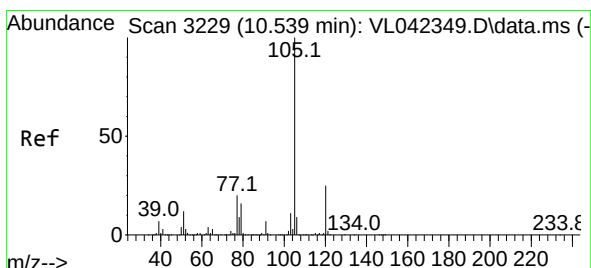
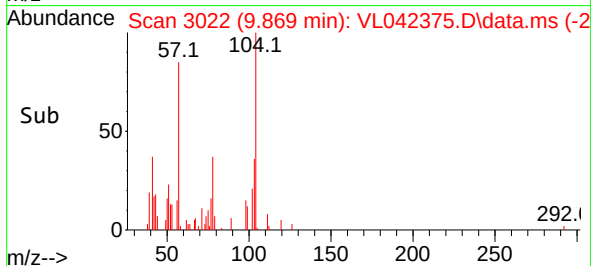
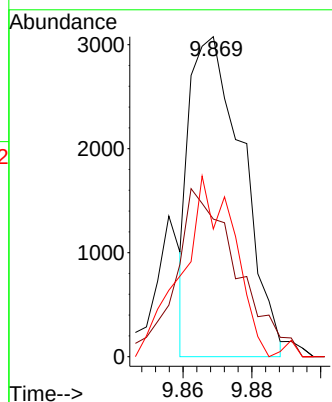
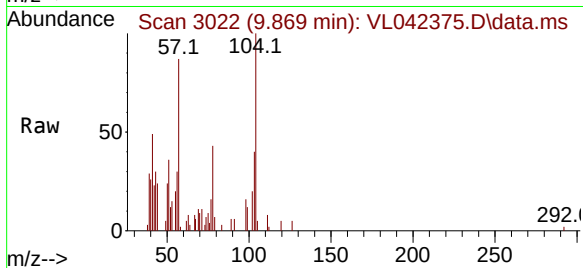
Instrument :

MSVOA_L

ClientSampleId :

IA-B1-3-3252025DL

Tgt Ion:104	Resp:	3276
Ion Ratio	Lower	Upper
104	100	
78	62.1	44.6 66.8
103	57.1	37.4 56.0



#62

Isopropylbenzene

Concen: 0.030 ppbv

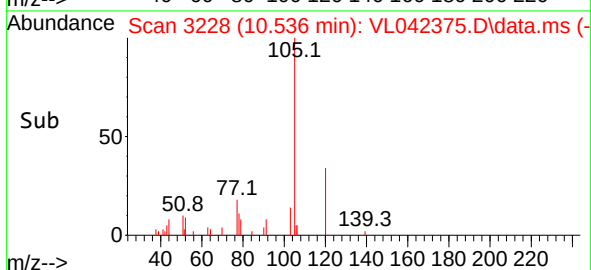
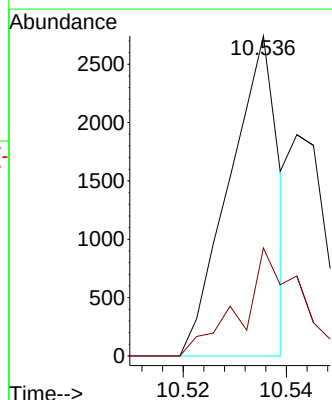
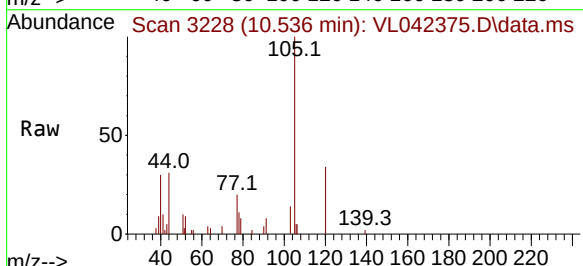
RT: 10.536 min Scan# 3228

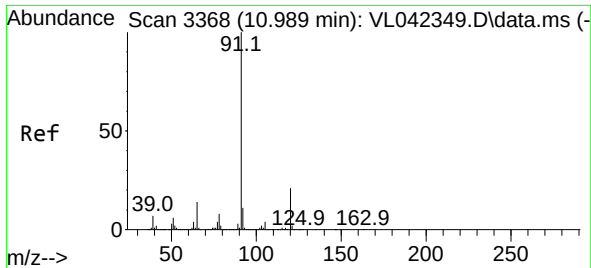
Delta R.T. -0.003 min

Lab File: VL042375.D

Acq: 18 Apr 2025 00:59

Tgt Ion:105	Resp:	1800
Ion Ratio	Lower	Upper
105	100	
120	39.5	19.8 29.8

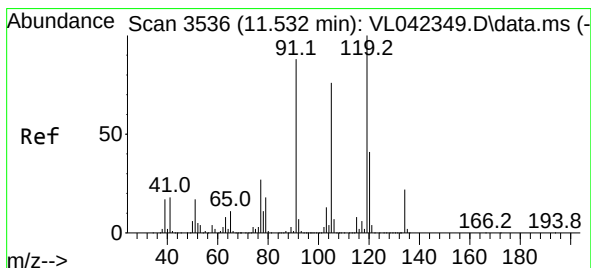
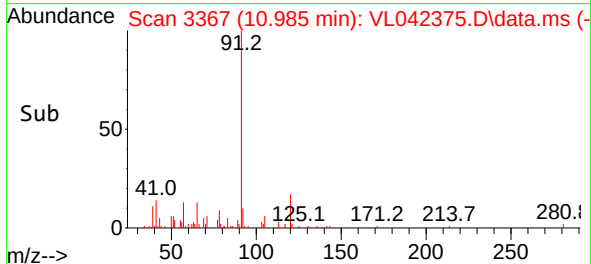
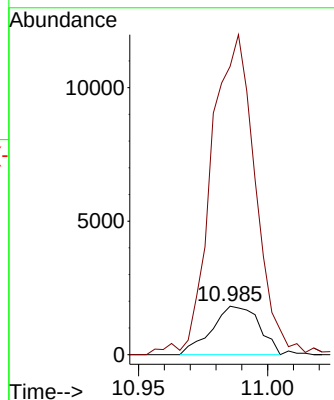
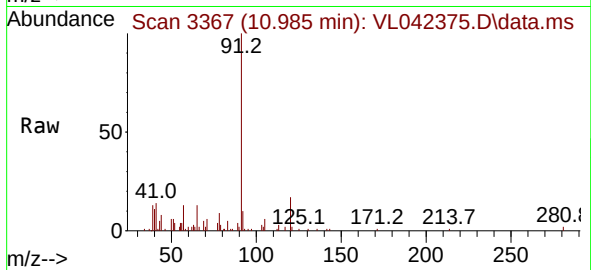




#64
n-propylbenzene
Concen: 0.154 ppbv
RT: 10.985 min Scan# 31
Delta R.T. -0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

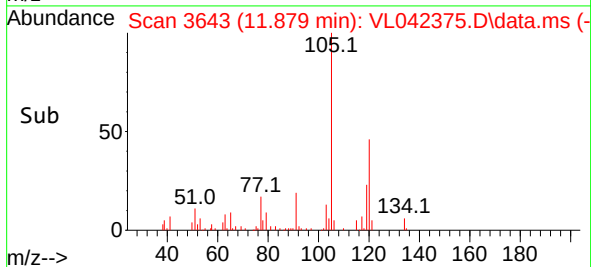
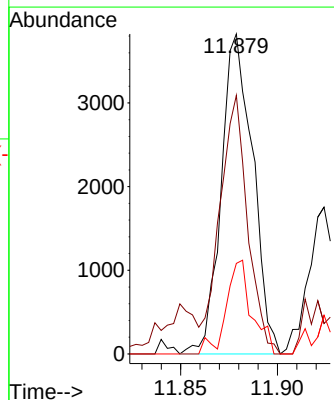
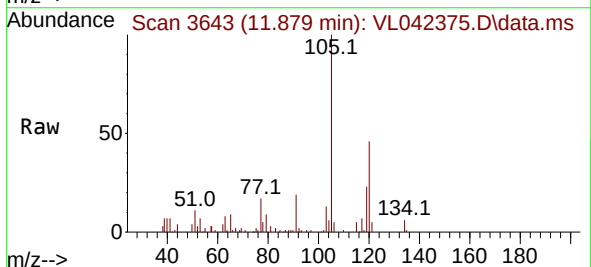
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025DL

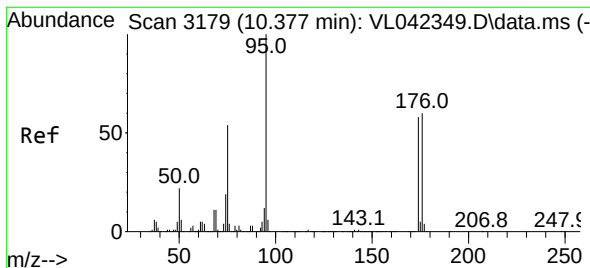
Tgt Ion:120 Resp: 2319
Ion Ratio Lower Upper
120 100
91 620.8 392.4 588.6#



#65
tert-Butylbenzene
Concen: 0.079 ppbv
RT: 11.879 min Scan# 3643
Delta R.T. 0.346 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Tgt Ion:119 Resp: 4345
Ion Ratio Lower Upper
119 100
91 89.8 74.6 111.8
134 23.6 18.8 28.2

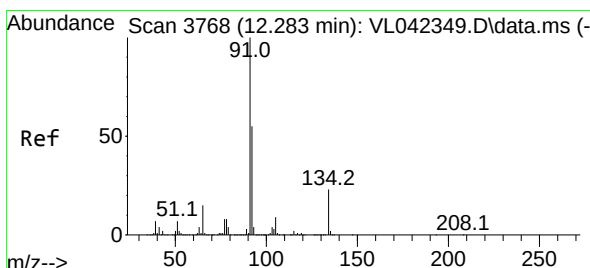
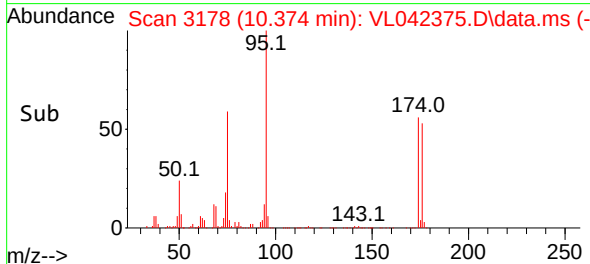
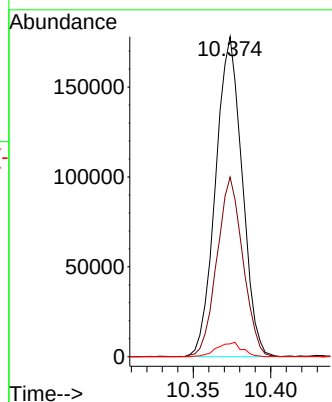
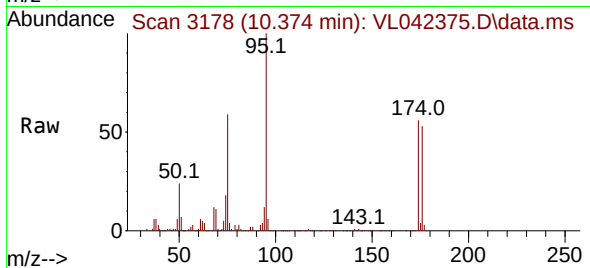




#68
1-Bromo-4-Fluorobenzene
Concen: 10.175 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. -0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

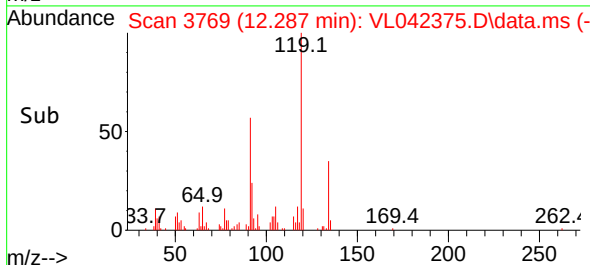
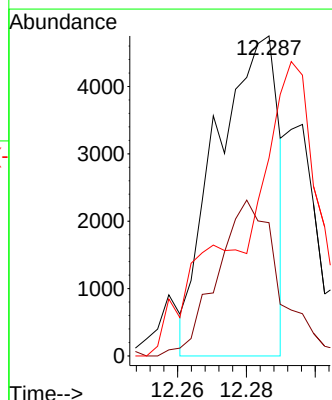
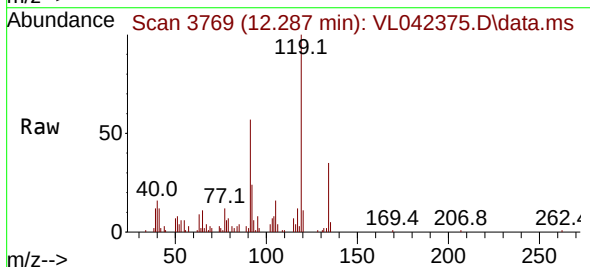
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025DL

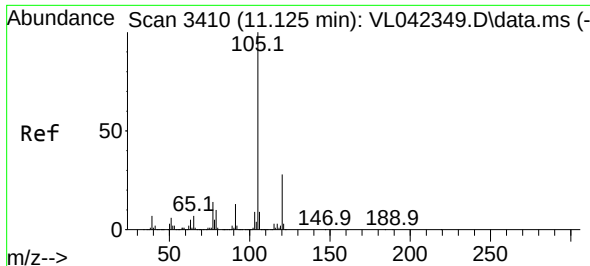
Tgt Ion: 95 Resp: 212240
Ion Ratio Lower Upper
95 100
174 54.8 48.5 72.7
175 4.3 3.7 5.5



#70
n-Butylbenzene
Concen: 0.086 ppbv
RT: 12.287 min Scan# 3769
Delta R.T. 0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Tgt Ion: 91 Resp: 5965
Ion Ratio Lower Upper
91 100
92 49.4 44.2 66.4
134 0.0 18.2 27.4#

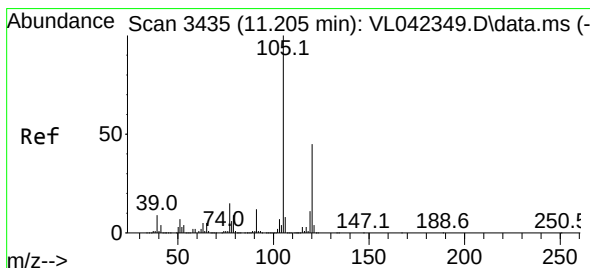
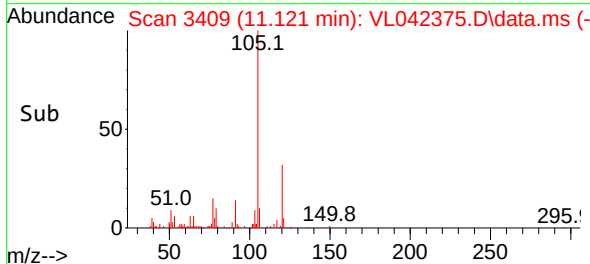
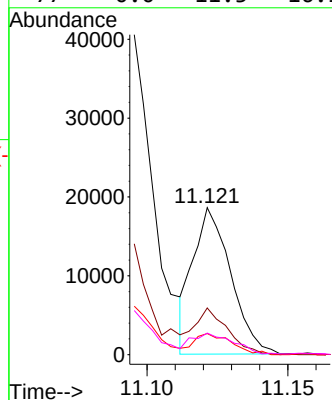
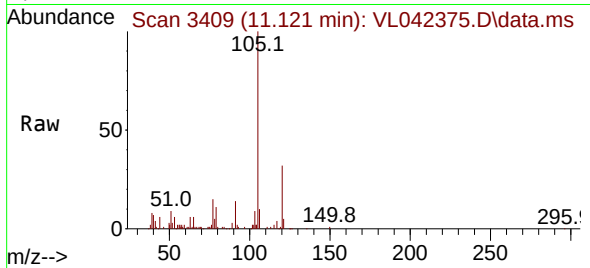




#72
4-Ethyltoluene
Concen: 0.347 ppbv
RT: 11.121 min Scan# 3410
Delta R.T. -0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

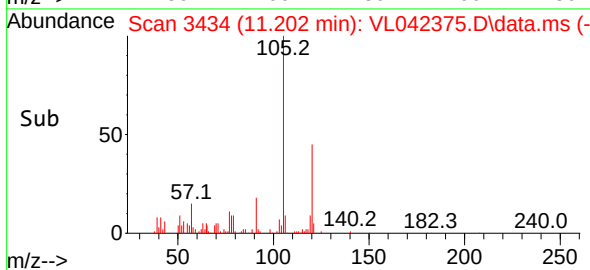
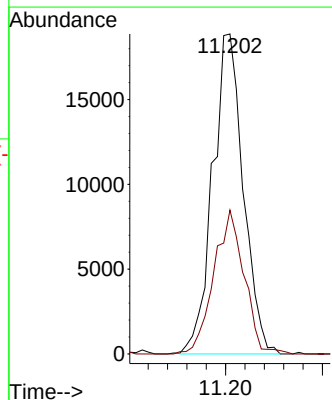
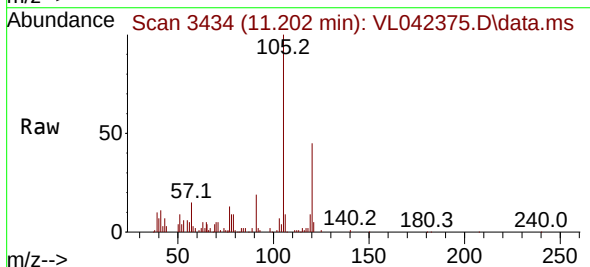
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025DL

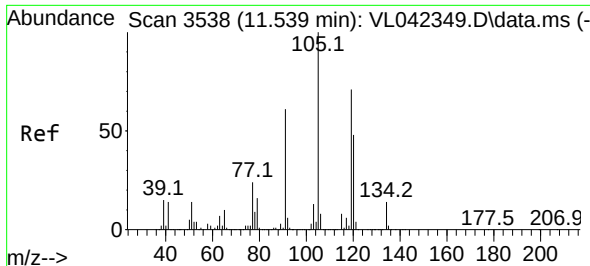
Tgt Ion:105 Resp: 17311
Ion Ratio Lower Upper
105 100
120 0.0 23.2 34.8#
91 0.0 10.4 15.6#
77 0.0 11.3 16.9#



#73
1,3,5-Trimethylbenzene
Concen: 0.470 ppbv
RT: 11.202 min Scan# 3434
Delta R.T. -0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

Tgt Ion:105 Resp: 20692
Ion Ratio Lower Upper
105 100
120 44.3 35.6 53.4

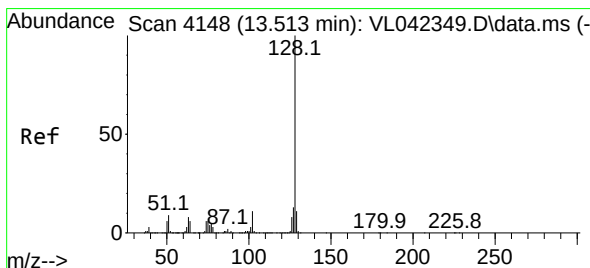
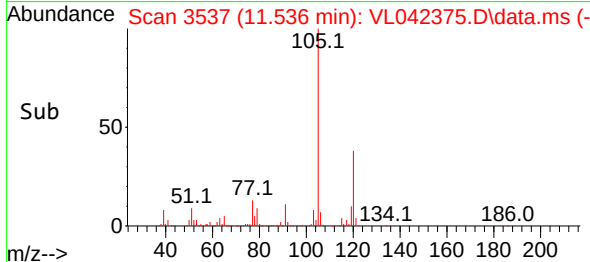
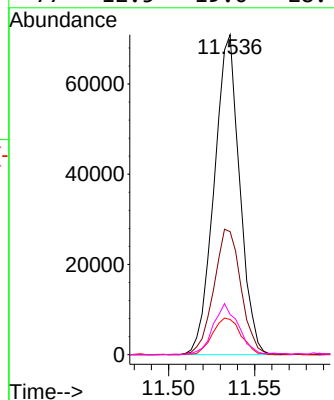
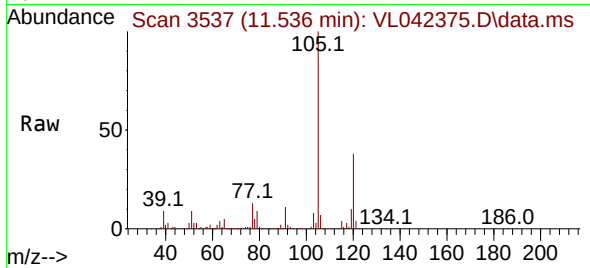




#74
1,2,4-Trimethylbenzene
Concen: 1.420 ppbv
RT: 11.536 min Scan# 31
Delta R.T. -0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

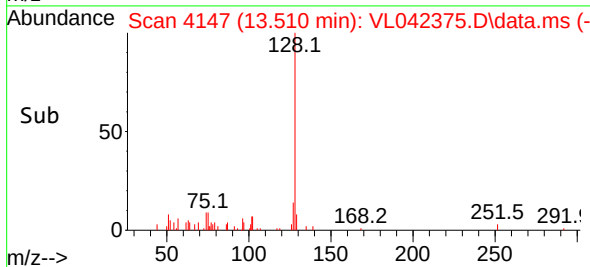
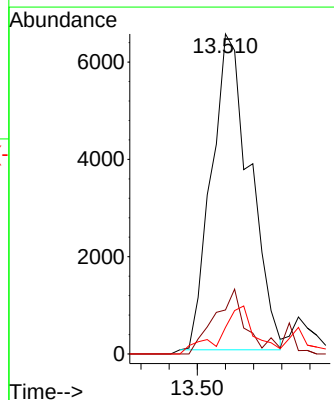
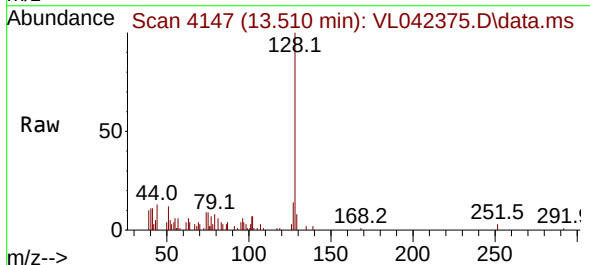
Instrument :
MSVOA_L
ClientSampleId :
IA-B1-3-3252025DL

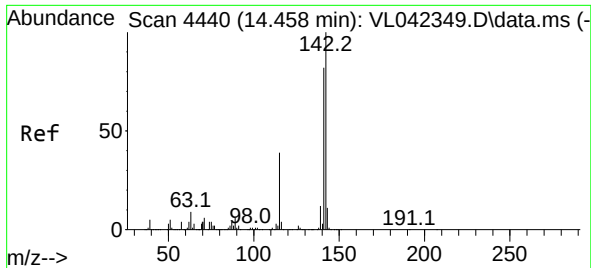
Tgt Ion:	105	Resp:	73024
Ion	Ratio	Lower	Upper
105	100		
120	38.5	38.1	57.1
91	10.9	48.8	73.2#
77	12.5	19.0	28.4#



#79
Naphthalene
Concen: 0.100 ppbv
RT: 13.510 min Scan# 4147
Delta R.T. -0.003 min
Lab File: VL042375.D
Acq: 18 Apr 2025 00:59

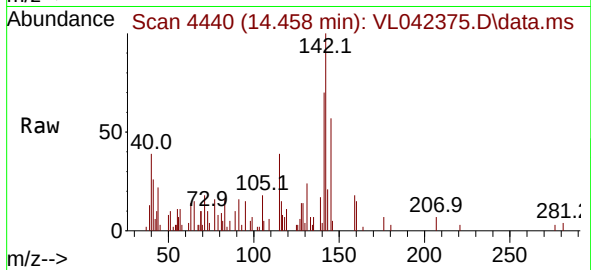
Tgt Ion:	128	Resp:	6160
Ion	Ratio	Lower	Upper
128	100		
127	14.0	10.6	15.8
129	8.4	8.6	12.8#





#80
 Naphthalene, 2-methyl-
 Concen: 0.053 ppbv
 RT: 14.458 min Scan# 44
 Delta R.T. 0.000 min
 Lab File: VL042375.D
 Acq: 18 Apr 2025 00:59

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B1-3-3252025DL



Tgt Ion:	142	Resp:	1863
Ion	Ratio	Lower	Upper
142	100		
141	90.2	66.8	100.2
115	136.2	33.4	50.2#

