

Cover Page

Order ID : Q1726

Project ID : US EPA Riverside Industrial Park Superfund Site

Client : Woodard & Curran

Lab Sample Number

Q1726-01
Q1726-02
Q1726-03
Q1726-04
Q1726-05
Q1726-06
Q1726-07

Client Sample Number

IA-DUP-3-03312025
IA-B2-6-03312025
IA-B2-2-03312025
IA-B2-5-03312025
IA-B2-1-03312025
IA-B2-3-03312025
IA-B2-4-03312025

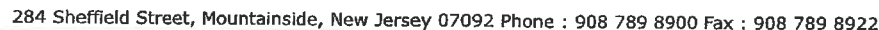
I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee,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

Signature : _____

Date: 7/3/2025



SHIPPING DOCUMENTS



Q172

Client Contact Information				Bottle Order ID : B2502051				Courier :				_____ of _____ COCs				
Client ID : WOOD06				Project ID : NYCHHC Environmental Services				Sampler Name(s) : <i>Alfred H. H. H.</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-DUP-3-3/31/2025	3/31/25 4/1/25	1606	1215	-30	-4	70	70	-30	-1.8	10206 10271	10597 10597	6 L	4.16	VL042143-D	X	X
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15) <i>Scot</i>						
		Ambient	Maximum	Minimum												
Start		68														
Stop		45														
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		29.70														
Stop		29.88														
Special Instructions/QC Requirements & Comments :																
Suspected Contamination: High Medium Low PID Readings: <i>0.0 ppm</i>																
Sampling site (State): <i>NJ</i>																
Quick Connector required : <i>No</i>																
Canisters Shipped by: <i>Scot</i>				Date/Time: <i>03/24/25</i>				Canisters Received by: <i>Scot</i>				Date/Time: <i>4/3/25 005</i>				
Samples Relinquished by: <i>Scot</i>				Date/Time: <i>4/3/25 005</i>				Received by:				Date/Time:				
Relinquished by:				Date/Time:				Received by:				Date/Time:				
B2502051 - 34																

Client Contact Information				Bottle Order ID : B2502051				Courier : _____				_____ of _____ COCs																	
Client ID : WOOD06 Project ID : NYCHHC Environmental Services				Sampler Name(s) : <i>Chryllo</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				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-B2-6-3/31/2025	3/31/25 4/1/25	1610	1217	-27	-5	70	70	-30	-6.7	10696 10774	10288 10597	6 L	4.16	VL042143-D	X	X													
Temperature (Fahrenheit) <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td></td> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td>68</td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td>45</td> <td></td> <td></td> </tr> </table>											Ambient	Maximum	Minimum	Start	68			Stop	45			GC/MS Analyst Signature (TO-15) <i>Set</i>							
	Ambient	Maximum	Minimum																										
Start	68																												
Stop	45																												
Pressure (Inches of Hg) <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td></td> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td>29.70</td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td>29.88</td> <td></td> <td></td> </tr> </table>											Ambient	Maximum	Minimum	Start	29.70			Stop	29.88										
	Ambient	Maximum	Minimum																										
Start	29.70																												
Stop	29.88																												
** 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.																													
Special Instructions/QC Requirements & Comments :																													
Suspected Contamination: High Medium Low PID Readings: <i>0.0 ppm</i>																													
Sampling site (State): <i>NJ</i>																													
Quick Connector required : <i>No</i>																													
Canisters Shipped by: <i>Sam</i>				Date/Time: <i>03/24/25</i>				Canisters Received by: <i>SA</i>				Date/Time: <i>4/3/25 1000</i>																	
Samples Relinquished by: <i>Crn</i>				Date/Time: <i>4/3/25 1000</i>				Received by:				Date/Time:																	
Relinquished by:				Date/Time:				Received by:				Date/Time:																	

Client Contact Information				Bottle Order ID : B2503044				Courier :				_____ of _____ COCs			
Client ID : WOOD06 Project ID : US EPA Riverside Industrial Park Superfund S				Sampler Name(s) : <i>Clayton D. Hfner</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 : JILL TRIBLEY				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified							
				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	TO-15			Indoor/Ambient Air	Soil Gas
1A-B2-2-3/31/2025	3/31/25 4/1/25	1241	1220	-30	-5	70	70	-30	-7.1	10506	10410	6 L	4.16	VL042182.D	X			X	

Temperature (Fahrenheit)				
	Ambient	Maximum	Minimum	
Start	68			GC/MS Analyst Signature (TO-15) <i>[Signature]</i>
Stop	45			

Pressure (Inches of Hg)				
	Ambient	Maximum	Minimum	
Start	29.70			** 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.
Stop	29.88			

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium Low PID Readings: *0.0 ppm*

Sampling site (State): *New Jersey*

Quick Connector required : *NO*

Canisters Shipped by: <i>Scum</i>	Date/Time: <i>03/25/25</i>	Canisters Received by: <i>[Signature]</i>	Date/Time: <i>4/24/25</i>
Samples Relinquished by: <i>[Signature]</i>	Date/Time: <i>4/3/25 1005</i>	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:

B2503044 - 9

Client Contact Information				Bottle Order ID : B2502051				Courier :				_____ of _____ COCs			
Client ID : WOOD06				Project ID : NYCHHC Environmental Services				Sampler Name(s) : <i>Clayton</i>				Analysis			
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				Indoor/Ambient Air Soil Gas			
				Phone Number : 800-807-4080											
				Fax Number : 914-448-0147											
				Site Details:											
Analysis Turnaround Time				Data Package Type :				EDD Type :							
Standard : 10 business days OR				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	TO-15					
1A-B2-S-3/31/2025	3/31-4/1/25	1606	1215	-30	-1	70	70	-30	-1.8	10771 10505	10807 10054	6 L	4.16	VL042143-D	X					

Temperature (Fahrenheit)					GC/MS Analyst Signature (TO-15) <i>Scot</i>				
	Ambient	Maximum	Minimum						
Start	68								
Stop	45								

Pressure (Inches of Hg)					** Submittal of this COC indicates approval of the analysis based on existing conditions. <i>* Hold Pending 555G</i> Please follow the instructions on the back of this COC.				
	Ambient	Maximum	Minimum						
Start	29.70								
Stop	29.88								

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium Low PID Readings: *0.1 ppm*

Sampling site (State): *NJ*

Quick Connector required : *NO*

Canisters Shipped by: <i>Sam</i>	Date/Time: <i>03/24/25</i>	Canisters Received by: <i>SA</i>	Date/Time: <i>4/1/25 10:05</i>
Samples Relinquished by: <i>Clayton</i>	Date/Time: <i>4/3/25 10:05</i>	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:

B2502051 - 34

Client Contact Information				Bottle Order ID : B2503044				Courier :				_____ of _____ COCs								
Client ID : WOOD06 Project ID : US EPA Riverside Industrial Park Superfund S				Sampler Name(s) : <i>Clayton Ketter</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 : JILL TRIBLEY				AIR ANALYSIS CHAIN-OF-CUSTODY Batch 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
<i>1A-82-1-3/31/2025</i>	<i>3/31/25 4/1/25</i>	<i>1246</i>	<i>1356</i>	<i>-30</i>	<i>-6</i>	<i>70</i>	<i>70</i>	<i>-30</i>	<i>-5.1</i>	<i>10537</i>	<i>10295</i>	<i>6 L</i>	<i>4.16</i>	<i>VL042182.D</i>	<i>X</i>			<i>X</i>		
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15) <i>Sud</i>										
		Ambient	Maximum	Minimum																
Start		<i>68</i>																		
Stop		<i>45</i>																		
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		<i>29.70</i>																		
Stop		<i>29.88</i>																		
Special Instructions/QC Requirements & Comments :																				
Suspected Contamination: High Medium Low PID Readings: <i>0.1 ppm</i> Sampling site (State): <i>New Jersey</i>																				
Quick Connector required : <i>N/D</i>																				
Canisters Shipped by: <i>Selin</i>				Date/Time: <i>3/21/25</i>				Canisters Received by: <i>[Signature]</i>				Date/Time: <i>4/3/25 1000</i>				B2503044 - 3				
Samples Relinquished by: <i>Clayton</i>				Date/Time: <i>4/3/25 1005</i>				Received by:				Date/Time:								
Relinquished by:				Date/Time:				Received by:				Date/Time:								

Client Contact Information				Bottle Order ID : B2503044				Courier :				_____ of _____ COCs										
Client ID : WOOD06 Project ID : US EPA Riverside Industrial Park Superfund S				Sampler Name(s) : <i>Clough/McNair</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 : JILL TRIBLEY				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified														
				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	TO-15				Indoor/Ambinet Air	Soil Gas		
<i>1A-B2-3 - 3/31/2025</i>	<i>3/31/25 4/1/25</i>	<i>1243</i>	<i>1537</i>	<i>27.5</i>	<i>-9</i>	<i>70</i>	<i>70</i>	<i>-30</i>	<i>-6.7</i>	<i>10577</i>	<i>10590</i>	<i>6 L</i>	<i>4.16</i>	<i>VL042182.D</i>	<i>X</i>				<i>X</i>			
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15) <i>[Signature]</i>												
	Ambient	Maximum	Minimum																			
Start	<i>68</i>																					
Stop	<i>45</i>																					
Pressure (Inches of Hg)										** Submittal of this COC indicates approval of the analysis based on existing conditions. <i>X Held Pending SSSG</i> Please follow the instructions on the back of this COC.												
	Ambient	Maximum	Minimum																			
Start	<i>29.70</i>																					
Stop	<i>29.88</i>																					
Special Instructions/QC Requirements & Comments :																						
Suspected Contamination: High Medium Low PID Readings: <i>0.0 ppm</i> Sampling site (State): <i>New Jersey</i>																						
Quick Connector required : <i>No</i>																						
Canisters Shipped by: <i>Sam</i>				Date/Time: <i>3/31/25</i>				Canisters Received by: <i>[Signature]</i>				Date/Time: <i>4/2/25</i>				B2503044 - 11						
Samples Relinquished by: <i>[Signature]</i>				Date/Time: <i>4/3/25</i>				Received by:				Date/Time:										
Relinquished by:				Date/Time:				Received by:				Date/Time:										

Client Contact Information						Bottle Order ID : B2503044				Courier :				_____ of _____ COCs					
Client ID : WOOD06 Project ID : US EPA Riverside Industrial Park Superfund S						Sampler Name(s) : <i>Clayton Helmer</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 : JILL TRIBLEY				AIR ANALYSIS CHAIN-OF-CUSTODY Individual 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
<i>17-B2-4-2/31/25</i>	<i>3/31/25</i> <i>4/1/25</i>	<i>1245</i>	<i>1539</i>	<i>-30</i>	<i>-7</i>	<i>70</i>	<i>70</i>	<i>-30</i>	<i>-5.5</i>	<i>10567</i>	<i>10448</i>	<i>6 L</i>	<i>4.16</i>	<i>VL042182.D</i>	☒			☒	
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15) <i>[Signature]</i>									
		Ambient	Maximum	Minimum															
Start		<i>68</i>																	
Stop		<i>45</i>																	
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		<i>29.70</i>																	
Stop		<i>29.88</i>																	
Special Instructions/QC Requirements & Comments :																			
Suspected Contamination: High Medium Low PID Readings: <i>0.1 ppm</i> Sampling site (State): <i>New Jersey</i>																			
Quick Connector required : <i>No</i>																			
Canisters Shipped by: <i>[Signature]</i>					Date/Time: <i>03/31/25</i>					Canisters Received by: <i>[Signature]</i>					Date/Time: <i>4/1/25</i>				
Samples Relinquished by: <i>[Signature]</i>					Date/Time: <i>4/3/25 1009</i>					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,

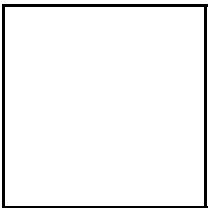


Kiran Saleem
Project Manager
Alliance Technical Group
Main: 908-789-8900
Direct: 908-728-3148
Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092
www.alliancetg.com

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>	
Title: <u>Sample Custodian</u>		Date Broken: <u>4/3/2025</u>	
Field Sample Seal No. <u>Q1726</u>		Military Time Seal Broken: <u>10:05:00</u>	
Case No.: <u>US EPA Riverside Industria</u>		Analytical Parameter/Fraction: <u>TO-15</u>	

Sample No.	Allquot/Extract No.	Sample No.	Allquot/Extract No.
Q1726-01	IA-DUP-3-03312025		
Q1726-02	IA-B2-6-03312025		
Q1726-03	IA-B2-2-03312025		
Q1726-04	IA-B2-5-03312025		
Q1726-05	IA-B2-1-03312025		
Q1726-06	IA-B2-3-03312025		
Q1726-07	IA-B2-4-03312025		

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
4/3/25		Signature	Signature	
		Printed Name <u>Cassanoza Rene</u>	Printed Name <u>Samir H. Ghanem</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	

Distribution: White - Original (Sent With Report) Yellow - Contractor Archive Pink - Sample Custodian - Interim Copy

AIR SAMPLE PRESSURE & DILUTION LOGBOOKAnalyst Signature: [Signature]Supervisor Signature: [Signature]

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
04/03/15	Q1725-01	10153	11.8	-5.9				sy
	Q1725-02	10321	12.4	-4.7				sy
	Q1725-03	10296	10.4	-8.8				
	Q1725-04	10605	14.0	-1.4				
	Q1725-05	10279	11.8	-5.9				
	Q1725-06	10596	13.4	-2.7				
	Q1725-07	10303	11.2	-7.1				
	Q1725-08	10333	11.2	-7.1				
4/03/15	Q1726-01	10597	13.8	-1.8				
	Q1726-02	10280	11.4	-6.7				
	Q1726-03	10410	11.2	-7.1				
	Q1726-04	10054	13.8	-1.8				
	Q1726-05	10295	12.2	-5.1				
	Q1726-06	10590	11.4	-6.7				
	Q1726-07	10448	12.0	-5.5				
04/03/15	Q1728-01	10130	10.0	-9.6				sy
	Q1728-02	10149	11.2	-7.1				
	Q1728-03	10458	10.6	-8.4				
	Q1728-04	10663	11.3	-7.1				
	Q1728-05	10662	10.6	-8.4				
	Q1728-06	10119	10.4	-8.8				

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

CHEMTECH

Client Sample ID #: 1A-B2-6-3/31/2025
 Client Name: W+C
 Project Name: Riverside
 Date: 3/31 - 12/15
 Analysis: 12/15
 Comments: _____
 Date Received: _____

Storage Location: Air Lab
 Sample: Q1726-02
 Cust #: 1A-B2-6-03312025

Disposal: _____

28201

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

CHEMTECH

Client Sample ID #: 1A-B2-3-3/31/2025
 Client Name: W+C
 Project Name: Riverside
 Date: 3/31 - 12/15
 Analysis: 12/15
 Comments: _____
 Date Received: _____

Storage Location: Air Lab
 Sample: Q1726-01
 Cust #: 1A-DUP-3-03312025

Disposal: _____

26501

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

CHEMTECH

Client Sample ID #: 1A-B2-2-3/31/2025
 Client Name: W+C
 Project Name: Riverside
 Date: 3/31 - 12/15
 Analysis: 12/15
 Comments: _____
 Date Received: _____

Storage Location: Air Lab
 Sample: Q1726-03
 Cust #: 1A-B2-2-03312025

Disposal: _____

10401

75001

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

CHEMTECH

Client Sample ID #: A-B2-5-3/31/2025
 Client Name: W+FC
 Project Name: Paradise
 Date: 3/31 Analysis: TD-15
 Comments: _____
 CHEMTECH'S _____
 Date Received: _____
 Storage Location: Air Lab
 Sample: Q1726-04
 Cust #: 1A-B2-5-03312025

Disposal: _____

B2502051

5020

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

CHEMTECH

Client Sample ID #: 1A-B2-1-3/31/2025
 Client Name: W+FC
 Project Name: Paradise
 Date: 3/31 Analysis: TD-15
 Comments: _____
 CHEMTECH'S _____
 Date Received: _____
 Storage Location: Air Lab
 Sample: Q1726-05
 Cust #: 1A-B2-1-03312025

Disposal: _____

B2503044

06581

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

CHEMTECH

Client Sample ID #: 1A-B2-3-3/31/2025
 Client Name: W+FC
 Project Name: Paradise
 Date: 3/31 Analysis: TD-15
 Comments: _____
 CHEMTECH'S _____
 Date Received: _____
 Storage Location: Air Lab
 Sample: Q1726-06
 Cust #: 1A-B2-3-03312025

Disposal: _____

B2503044

CHEMTECH

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

Client Sample ID #:	1A-D2-4-3/31/2025
Client Name:	W & C
Project Name:	Riverside
Date:	3/31-4/1/25
Time:	1522
Analysis:	TD-15
Comments:	W & C 27.5W5??
Disposal:	

55-
O

Storage Location: Air Lab
Sample: Q1726-07
Cust #: 1A-B2-4-03312025

CHEMTECH
Date Received

877701



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 # Q1726

Test Name: TO-15

A. Number of Samples and Date of Receipt:

7 Air samples were received on 04/03/2025.

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 7100A 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 {Q1726-06DL2DUP} with File ID: VL042393.D met criteria except for Ethanol[27.5%] due to difference in results of Original and DUP.

The Blank Spike for {VL0417ABS01} with File ID: VL042358.D met requirements for all samples except for Ethanol[32%] this compound did not meet the NJDKQP criteria and the in-house criteria.

The Blank Spike for {VL0418ABS01} with File ID: VL042385.D met requirements for all samples except for Ethanol[23%], Heptane[68%], Methyl methacrylate[69%] and Tetrahydrofuran[69%], these compounds did not meet the NJDKQP criteria and the in-house criteria also it is failing low but only dilution samples analyzed under this Blank spike therefore no corrective action taken.

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

The Initial Calibration with dated 04/17/2025 with L Instrument met the requirements except for Ethanol.

The Continuous Calibration File ID VL042383.D met the requirements except for Ethanol, 1,4-Dioxane, 4-Methyl-2-Pentanone and Tetrahydrofuran are failing low but only dilution samples analyzed under this Continuous Calibration therefore no corrective action taken.

The Tuning criteria met requirements.

Samples IA-DUP-3-03312025, IA-DUP-3-03312025DL, IA-B2-6-03312025, IA-B2-6-03312025DL, IA-B2-2-03312025, IA-B2-2-03312025DL, IA-B2-5-03312025, IA-B2-5-03312025DL, IA-B2-1-03312025, IA-B2-1-03312025DL, IA-B2-3-03312025, IA-B2-3-03312025DL, IA-B2-4-03312025 and IA-B2-4-03312025DL were diluted due to high concentrations.

E. Additional Comments:

This data Package has been revised to include Parameter Bromoethene, Ethanol and isopropyl alcohol.

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

The not QT review data is reported in the Miscellaneous.

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

The Sample # IA-DUP-3-03312025DL, IA-DUP-3-03312025DL2, IA-B2-6-03312025DL, IA-B2-2-03312025DL, IA-B2-1-03312025DL2 and IA-B2-4-03312025DL2 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	MMDado da	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	MMDado da	4/18/2025 10:45:17 PM	Peak Integrated by Software

							incorrectly
VSTDICCO02	VL042350.D	cis-1,3-Dichloropropene	SAM	4/18/2025 4:19:12 PM	MMDado da	4/18/2025 10:45:17 PM	Peak Integrated by Software incorrectly
VSTDICCO02	VL042350.D	Ethanol	SAM	4/18/2025 4:19:12 PM	MMDado da	4/18/2025 10:45:17 PM	Peak Integrated by Software incorrectly
VSTDICCO02	VL042350.D	Heptane	SAM	4/18/2025 4:19:12 PM	MMDado da	4/18/2025 10:45:17 PM	Peak Integrated by Software incorrectly
VSTDICCO02	VL042350.D	m/p-Xylene	SAM	4/18/2025 4:19:12 PM	MMDado da	4/18/2025 10:45:17 PM	Peak Integrated by Software incorrectly
VSTDICCO02	VL042350.D	Trichloroethene	SAM	4/18/2025 4:19:12 PM	MMDado da	4/18/2025 10:45:17 PM	Peak Integrated by Software incorrectly
VSTDICCO01	VL042351.D	1,1,2-Trichloroethane	SAM	4/18/2025 4:19:17 PM	MMDado da	4/18/2025 10:45:15 PM	Peak Integrated by Software incorrectly
VSTDICCO01	VL042351.D	1,3-Butadiene	SAM	4/18/2025 4:19:17 PM	MMDado da	4/18/2025 10:45:15 PM	Peak Integrated by Software

							e incorec tly
VSTDICCO 01	VL04235 1.D	1,4-Dioxane	SAM	4/18/20 25 4:19:17 PM	MMDado da	4/18/20 25 10:45:1 5 PM	Peak Integrat ed by Softwar e incorrec tly
VSTDICCO 01	VL04235 1.D	2,2,4- Trimethylpentane	SAM	4/18/20 25 4:19:17 PM	MMDado da	4/18/20 25 10:45:1 5 PM	Peak Integrat ed by Softwar e incorrec tly
VSTDICCO 01	VL04235 1.D	cis-1,3- Dichloropropene	SAM	4/18/20 25 4:19:17 PM	MMDado da	4/18/20 25 10:45:1 5 PM	Peak Integrat ed by Softwar e incorrec tly
VSTDICCO 01	VL04235 1.D	Cyclohexane	SAM	4/18/20 25 4:19:17 PM	MMDado da	4/18/20 25 10:45:1 5 PM	Peak Integrat ed by Softwar e incorrec tly
VSTDICCO 01	VL04235 1.D	Ethanol	SAM	4/18/20 25 4:19:17 PM	MMDado da	4/18/20 25 10:45:1 5 PM	Peak Integrat ed by Softwar e incorrec tly
VSTDICCO 01	VL04235 1.D	Heptane	SAM	4/18/20 25 4:19:17 PM	MMDado da	4/18/20 25 10:45:1 5 PM	Peak Integrat ed by Softwar e incorrec tly
VSTDICCO 01	VL04235 1.D	m/p-Xylene	SAM	4/18/20 25 4:19:17	MMDado da	4/18/20 25 10:45:1	Peak Integrat ed by

				PM		5 PM	Software incorrectly
VSTDICCO01	VL04235 1.D	Methyl Methacrylate	SAM	4/18/2025 4:19:17 PM	MMDado da	4/18/2025 10:45:15 PM	Peak Integrated by Software incorrectly
VSTDICCO01	VL04235 1.D	t-1,3-Dichloropropene	SAM	4/18/2025 4:19:17 PM	MMDado da	4/18/2025 10:45:15 PM	Peak Integrated by Software incorrectly
VSTDICCO.5	VL04235 2.D	1,1,2-Trichloroethane	SAM	4/18/2025 4:20:33 PM	MMDado da	4/18/2025 10:45:07 PM	Peak Integrated by Software incorrectly
VSTDICCO.5	VL04235 2.D	1,2-Dichloropropane	SAM	4/18/2025 4:20:33 PM	MMDado da	4/18/2025 10:45:07 PM	Peak Integrated by Software incorrectly
VSTDICCO.5	VL04235 2.D	1,4-Dioxane	SAM	4/18/2025 4:20:33 PM	MMDado da	4/18/2025 10:45:07 PM	Peak Integrated by Software incorrectly
VSTDICCO.5	VL04235 2.D	4-Methyl-2-Pentanone	SAM	4/18/2025 4:20:33 PM	MMDado da	4/18/2025 10:45:07 PM	Peak Integrated by Software incorrectly
VSTDICCO.5	VL04235 2.D	Chlorobenzene	SAM	4/18/2025	MMDado da	4/18/2025	Peak Integrated

				4:20:33 PM		10:45:07 PM	ed by Software incorrectly
VSTDICC0.5	VL04235 2.D	cis-1,3-Dichloropropene	SAM	4/18/2025 4:20:33 PM	MMDado da	4/18/2025 10:45:07 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL04235 2.D	Ethanol	SAM	4/18/2025 4:20:33 PM	MMDado da	4/18/2025 10:45:07 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL04235 2.D	Heptane	SAM	4/18/2025 4:20:33 PM	MMDado da	4/18/2025 10:45:07 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL04235 2.D	m/p-Xylene	SAM	4/18/2025 4:20:33 PM	MMDado da	4/18/2025 10:45:07 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL04235 2.D	Methyl Methacrylate	SAM	4/18/2025 4:20:33 PM	MMDado da	4/18/2025 10:45:07 PM	Peak Integrated by Software incorrectly
VSTDICC0.5	VL04235 2.D	t-1,3-Dichloropropene	SAM	4/18/2025 4:20:33 PM	MMDado da	4/18/2025 10:45:07 PM	Peak Integrated by Software incorrectly
VSTDICC0.	VL04235	Tetrahydrofuran	SAM	4/18/20	MMDado	4/18/20	Peak

5	2.D			25 4:20:33 PM	da	25 10:45:0 7 PM	Integrat ed by Softwar e incorrec tly
VSTDICCO. 1	VL04235 3.D	1,1,1- Trichloroethane	SAM	4/18/20 25 4:20:37 PM	MMDado da	4/18/20 25 10:45:0 4 PM	Peak Integrat ed by Softwar e incorrec tly
VSTDICCO. 1	VL04235 3.D	1,1,2,2- Tetrachloroethan e	SAM	4/18/20 25 4:20:37 PM	MMDado da	4/18/20 25 10:45:0 4 PM	Peak Integrat ed by Softwar e incorrec tly
VSTDICCO. 1	VL04235 3.D	1,2- Dibromoethane	SAM	4/18/20 25 4:20:37 PM	MMDado da	4/18/20 25 10:45:0 4 PM	Peak Integrat ed by Softwar e incorrec tly
VSTDICCO. 1	VL04235 3.D	Tetrachloroethen e	SAM	4/18/20 25 4:20:37 PM	MMDado da	4/18/20 25 10:45:0 4 PM	Peak Integrat ed by Softwar e incorrec tly
VSTDICCO. 1	VL04235 3.D	Trichloroethene	SAM	4/18/20 25 4:20:37 PM	MMDado da	4/18/20 25 10:45:0 4 PM	Peak Integrat ed by Softwar e incorrec tly
VSTDICCO. 03	VL04235 4.D	1,1,1- Trichloroethane	SAM	4/18/20 25 4:19:24 PM	MMDado da	4/18/20 25 10:45:0 2 PM	Peak Integrat ed by Softwar e incorrec tly

VSTDICCO.03	VL04235 4.D	1,1,2,2-Tetrachloroethane	SAM	4/18/20 25 4:19:24 PM	MMDado da	4/18/20 25 10:45:02 PM	Peak Integrated by Software incorrectly
VSTDICCO.03	VL04235 4.D	Carbon Tetrachloride	SAM	4/18/20 25 4:19:24 PM	MMDado da	4/18/20 25 10:45:02 PM	Peak Integrated by Software incorrectly
VSTDICCO.03	VL04235 4.D	Tetrachloroethene	SAM	4/18/20 25 4:19:24 PM	MMDado da	4/18/20 25 10:45:02 PM	Peak Integrated by Software incorrectly
VSTDICCO.03	VL04235 4.D	Trichloroethene	SAM	4/18/20 25 4:19:24 PM	MMDado da	4/18/20 25 10:45:02 PM	Peak Integrated by Software incorrectly
VSTDICCO15	VL04235 5.D	m/p-Xylene	SAM	4/18/20 25 4:21:35 PM	MMDado da	4/18/20 25 10:44:59 PM	Peak Integrated by Software incorrectly
VSTDICV010	VL04235 6.D	m/p-Xylene	SAM	4/18/20 25 4:20:42 PM	MMDado da	4/18/20 25 10:44:57 PM	Peak Integrated by Software incorrectly
VL0417AB S01	VL04235 8.D	m/p-Xylene	SAM	4/18/20 25 4:21:39 PM	MMDado da	4/18/20 25 10:44:55 PM	Peak Integrated by Software incorrectly

Q1726-01	VL04236 6.D	1,2-Dichloroethane	SAM	4/18/20 25 4:19:35 PM	MMDado da	4/18/20 25 10:44:2 6 PM	Peak Integrat ed by Softwar e incorrec tly
Q1726-01	VL04236 6.D	Carbon Tetrachloride	SAM	4/18/20 25 4:19:35 PM	MMDado da	4/18/20 25 10:44:2 6 PM	Peak Integrat ed by Softwar e incorrec tly
Q1726-01	VL04236 6.D	Chlorodifluoromet hane	SAM	4/18/20 25 4:19:35 PM	MMDado da	4/18/20 25 10:44:2 6 PM	Peak Integrat ed by Softwar e incorrec tly
Q1726-01	VL04236 6.D	n-Butylbenzene	SAM	4/18/20 25 4:19:35 PM	MMDado da	4/18/20 25 10:44:2 6 PM	Peak Integrat ed by Softwar e incorrec tly
Q1726-01	VL04236 6.D	Naphthalene,2- methyl-	SAM	4/18/20 25 4:19:35 PM	MMDado da	4/18/20 25 10:44:2 6 PM	Peak Integrat ed by Softwar e incorrec tly
Q1726-01	VL04236 6.D	Propene	SAM	4/18/20 25 4:19:35 PM	MMDado da	4/18/20 25 10:44:2 6 PM	Peak Integrat ed by Softwar e incorrec tly
Q1726-01	VL04236 6.D	Tetrachloroethen e	SAM	4/18/20 25 4:19:35 PM	MMDado da	4/18/20 25 10:44:2 6 PM	Peak Integrat ed by Softwar e incorrec tly

Q1726-02	VL04236 7.D	1,1,1- Trichloroethane	SAM	4/18/20 25 4:20:08 PM	MMDado da	4/18/20 25 10:45:5 1 PM	Peak Integrat ed by Softwar e incorrec tly
Q1726-02	VL04236 7.D	Carbon Tetrachloride	SAM	4/18/20 25 4:20:08 PM	MMDado da	4/18/20 25 10:45:5 1 PM	Peak Integrat ed by Softwar e incorrec tly
Q1726-02	VL04236 7.D	Chlorodifluoromet hane	SAM	4/18/20 25 4:20:08 PM	MMDado da	4/18/20 25 10:45:5 1 PM	Peak Integrat ed by Softwar e incorrec tly
Q1726-02	VL04236 7.D	Chloroform	SAM	4/18/20 25 4:20:08 PM	MMDado da	4/18/20 25 10:45:5 1 PM	Peak Integrat ed by Softwar e incorrec tly
Q1726-02	VL04236 7.D	Cyclohexane	SAM	4/18/20 25 4:20:08 PM	MMDado da	4/18/20 25 10:45:5 1 PM	Peak Integrat ed by Softwar e incorrec tly
Q1726-02	VL04236 7.D	Propene	SAM	4/18/20 25 4:20:08 PM	MMDado da	4/18/20 25 10:45:5 1 PM	Peak Integrat ed by Softwar e incorrec tly
Q1726-02	VL04236 7.D	Tetrachloroethen e	SAM	4/18/20 25 4:20:08 PM	MMDado da	4/18/20 25 10:45:5 1 PM	Peak Integrat ed by Softwar e incorrec tly

Q1726-03	VL04236 8.D	1,1,1- Trichloroethane	SAM	4/18/20 25 4:21:50 PM	MMDado da	4/18/20 25 10:44:2 4 PM	Peak Integrat ed by Softwar e incorrec tly
Q1726-03	VL04236 8.D	Carbon Tetrachloride	SAM	4/18/20 25 4:21:50 PM	MMDado da	4/18/20 25 10:44:2 4 PM	Peak Integrat ed by Softwar e incorrec tly
Q1726-03	VL04236 8.D	Chlorodifluoromet hane	SAM	4/18/20 25 4:21:50 PM	MMDado da	4/18/20 25 10:44:2 4 PM	Peak Integrat ed by Softwar e incorrec tly
Q1726-03	VL04236 8.D	Chloroform	SAM	4/18/20 25 4:21:50 PM	MMDado da	4/18/20 25 10:44:2 4 PM	Peak Integrat ed by Softwar e incorrec tly
Q1726-03	VL04236 8.D	n-Butylbenzene	SAM	4/18/20 25 4:21:50 PM	MMDado da	4/18/20 25 10:44:2 4 PM	Peak Integrat ed by Softwar e incorrec tly
Q1726-03	VL04236 8.D	Naphthalene,2- methyl-	SAM	4/18/20 25 4:21:50 PM	MMDado da	4/18/20 25 10:44:2 4 PM	Peak Integrat ed by Softwar e incorrec tly
Q1726-03	VL04236 8.D	Propene	SAM	4/18/20 25 4:21:50 PM	MMDado da	4/18/20 25 10:44:2 4 PM	Peak Integrat ed by Softwar e incorrec tly

Q1726-03	VL04236 8.D	tert-Butyl alcohol	SAM	4/18/20 25 4:21:50 PM	MMDado da	4/18/20 25 10:44:2 4 PM	Peak Integrat ed by Softwar e incorrec tly
Q1726-03	VL04236 8.D	Tetrachloroethen e	SAM	4/18/20 25 4:21:50 PM	MMDado da	4/18/20 25 10:44:2 4 PM	Peak Integrat ed by Softwar e incorrec tly
Q1726-04	VL04236 9.D	1,1,1- Trichloroethane	SAM	4/18/20 25 4:21:55 PM	MMDado da	4/18/20 25 10:44:1 8 PM	Peak Integrat ed by Softwar e incorrec tly
Q1726-04	VL04236 9.D	Carbon Tetrachloride	SAM	4/18/20 25 4:21:55 PM	MMDado da	4/18/20 25 10:44:1 8 PM	Peak Integrat ed by Softwar e incorrec tly
Q1726-04	VL04236 9.D	Chlorodifluoromet hane	SAM	4/18/20 25 4:21:55 PM	MMDado da	4/18/20 25 10:44:1 8 PM	Peak Integrat ed by Softwar e incorrec tly
Q1726-04	VL04236 9.D	Propene	SAM	4/18/20 25 4:21:55 PM	MMDado da	4/18/20 25 10:44:1 8 PM	Peak Integrat ed by Softwar e incorrec tly
Q1726-04	VL04236 9.D	tert-Butyl alcohol	SAM	4/18/20 25 4:21:55 PM	MMDado da	4/18/20 25 10:44:1 8 PM	Peak Integrat ed by Softwar e incorrec tly

Q1726-04	VL042369.D	Tetrachloroethene	SAM	4/18/2025 4:21:55 PM	MMDado da	4/18/2025 10:44:18 PM	Peak Integrated by Software incorrectly
Q1726-05	VL042370.D	1,1,1-Trichloroethane	SAM	4/18/2025 4:21:04 PM	MMDado da	4/18/2025 10:44:08 PM	Peak Integrated by Software incorrectly
Q1726-05	VL042370.D	Chlorodifluoromethane	SAM	4/18/2025 4:21:04 PM	MMDado da	4/18/2025 10:44:08 PM	Peak Integrated by Software incorrectly
Q1726-05	VL042370.D	Cyclohexane	SAM	4/18/2025 4:21:04 PM	MMDado da	4/18/2025 10:44:08 PM	Peak Integrated by Software incorrectly
Q1726-05	VL042370.D	Propene	SAM	4/18/2025 4:21:04 PM	MMDado da	4/18/2025 10:44:08 PM	Peak Integrated by Software incorrectly
Q1726-05	VL042370.D	tert-Butyl alcohol	SAM	4/18/2025 4:21:04 PM	MMDado da	4/18/2025 10:44:08 PM	Peak Integrated by Software incorrectly
Q1726-05	VL042370.D	Tetrachloroethene	SAM	4/18/2025 4:21:04 PM	MMDado da	4/18/2025 10:44:08 PM	Peak Integrated by Software incorrectly

Q1726-06	VL04237 1.D	Chlorodifluoromet hane	SAM	4/18/20 25 4:20:03 PM	MMDado da	4/18/20 25 10:44:0 5 PM	Peak Integrat ed by Softwar e incorrec tly
Q1726-06	VL04237 1.D	n-Butylbenzene	SAM	4/18/20 25 4:20:03 PM	MMDado da	4/18/20 25 10:44:0 5 PM	Peak Integrat ed by Softwar e incorrec tly
Q1726-06	VL04237 1.D	Propene	SAM	4/18/20 25 4:20:03 PM	MMDado da	4/18/20 25 10:44:0 5 PM	Peak Integrat ed by Softwar e incorrec tly
Q1726-06	VL04237 1.D	tert-Butyl alcohol	SAM	4/18/20 25 4:20:03 PM	MMDado da	4/18/20 25 10:44:0 5 PM	Peak Integrat ed by Softwar e incorrec tly
Q1726-06	VL04237 1.D	Tetrachloroethen e	SAM	4/18/20 25 4:20:03 PM	MMDado da	4/18/20 25 10:44:0 5 PM	Peak Integrat ed by Softwar e incorrec tly
Q1726-06	VL04237 1.D	Trichloroethene	SAM	4/18/20 25 4:20:03 PM	MMDado da	4/18/20 25 10:44:0 5 PM	Peak Integrat ed by Softwar e incorrec tly
Q1726-07	VL04237 2.D	4-Methyl-2- Pentanone	SAM	4/18/20 25 4:20:49 PM	MMDado da	4/18/20 25 10:44:0 2 PM	Peak Integrat ed by Softwar e incorrec tly

Q1726-07	VL04237 2.D	Carbon Tetrachloride	SAM	4/18/20 25 4:20:49 PM	MMDado da	4/18/20 25 10:44:0 2 PM	Peak Integrat ed by Softwar e incorrec tly
Q1726-07	VL04237 2.D	Chlorodifluoromet hane	SAM	4/18/20 25 4:20:49 PM	MMDado da	4/18/20 25 10:44:0 2 PM	Peak Integrat ed by Softwar e incorrec tly
Q1726-07	VL04237 2.D	Chloroform	SAM	4/18/20 25 4:20:49 PM	MMDado da	4/18/20 25 10:44:0 2 PM	Peak Integrat ed by Softwar e incorrec tly
Q1726-07	VL04237 2.D	n-Butylbenzene	SAM	4/18/20 25 4:20:49 PM	MMDado da	4/18/20 25 10:44:0 2 PM	Peak Integrat ed by Softwar e incorrec tly
Q1726-07	VL04237 2.D	Propene	SAM	4/18/20 25 4:20:49 PM	MMDado da	4/18/20 25 10:44:0 2 PM	Peak Integrat ed by Softwar e incorrec tly
Q1726-07	VL04237 2.D	tert-Butyl alcohol	SAM	4/18/20 25 4:20:49 PM	MMDado da	4/18/20 25 10:44:0 2 PM	Peak Integrat ed by Softwar e incorrec tly
Q1726-07	VL04237 2.D	Tetrachloroethen e	SAM	4/18/20 25 4:20:49 PM	MMDado da	4/18/20 25 10:44:0 2 PM	Peak Integrat ed by Softwar e incorrec tly

Q1726-07DL	VL04237 3.D	2,2,4-Trimethylpentane	SAM	4/18/20 25 4:22:12 PM	MMDado da	4/18/20 25 10:43:58 PM	Peak Integrated by Software incorrectly
Q1726-07DL	VL04237 3.D	Heptane	SAM	4/18/20 25 4:22:12 PM	MMDado da	4/18/20 25 10:43:58 PM	Peak Integrated by Software incorrectly
Q1726-07DL	VL04237 3.D	m/p-Xylene	SAM	4/18/20 25 4:22:12 PM	MMDado da	4/18/20 25 10:43:58 PM	Peak Integrated by Software incorrectly
Q1726-07DL	VL04237 3.D	Propene	SAM	4/18/20 25 4:22:12 PM	MMDado da	4/18/20 25 10:43:58 PM	Peak Integrated by Software incorrectly
Q1726-01DL	VL04237 6.D	Benzene	SAM	4/18/20 25 4:19:57 PM	MMDado da	4/18/20 25 10:43:47 PM	Peak Integrated by Software incorrectly
Q1726-01DL	VL04237 6.D	Cyclohexane	SAM	4/18/20 25 4:19:57 PM	MMDado da	4/18/20 25 10:43:47 PM	Peak Integrated by Software incorrectly
Q1726-01DL	VL04237 6.D	Propene	SAM	4/18/20 25 4:19:57 PM	MMDado da	4/18/20 25 10:43:47 PM	Peak Integrated by Software incorrectly

Q1726-02DL	VL04237 7.D	Benzene	SAM	4/18/20 25 4:21:15 PM	MMDado da	4/18/20 25 10:43:43 PM	Peak Integrated by Software incorrectly
Q1726-02DL	VL04237 7.D	Cyclohexane	SAM	4/18/20 25 4:21:15 PM	MMDado da	4/18/20 25 10:43:43 PM	Peak Integrated by Software incorrectly
Q1726-02DL	VL04237 7.D	Heptane	SAM	4/18/20 25 4:21:15 PM	MMDado da	4/18/20 25 10:43:43 PM	Peak Integrated by Software incorrectly
Q1726-02DL	VL04237 7.D	m/p-Xylene	SAM	4/18/20 25 4:21:15 PM	MMDado da	4/18/20 25 10:43:43 PM	Peak Integrated by Software incorrectly
Q1726-02DL	VL04237 7.D	n-propylbenzene	SAM	4/18/20 25 4:21:15 PM	MMDado da	4/18/20 25 10:43:43 PM	Peak Integrated by Software incorrectly
Q1726-02DL	VL04237 7.D	Propene	SAM	4/18/20 25 4:21:15 PM	MMDado da	4/18/20 25 10:43:43 PM	Peak Integrated by Software incorrectly
Q1726-03DL	VL04237 8.D	1,3,5-Trimethylbenzene	SAM	4/18/20 25 4:21:23 PM	MMDado da	4/18/20 25 10:43:37 PM	Peak Integrated by Software incorrectly

Q1726-03DL	VL04237 8.D	2,2,4-Trimethylpentane	SAM	4/18/20 25 4:21:23 PM	MMDado da	4/18/20 25 10:43:37 PM	Peak Integrated by Software incorrectly
Q1726-03DL	VL04237 8.D	Heptane	SAM	4/18/20 25 4:21:23 PM	MMDado da	4/18/20 25 10:43:37 PM	Peak Integrated by Software incorrectly
Q1726-03DL	VL04237 8.D	m/p-Xylene	SAM	4/18/20 25 4:21:23 PM	MMDado da	4/18/20 25 10:43:37 PM	Peak Integrated by Software incorrectly
Q1726-03DL	VL04237 8.D	Propene	SAM	4/18/20 25 4:21:23 PM	MMDado da	4/18/20 25 10:43:37 PM	Peak Integrated by Software incorrectly
Q1726-04DL	VL04237 9.D	2,2,4-Trimethylpentane	SAM	4/18/20 25 4:19:52 PM	MMDado da	4/18/20 25 10:43:34 PM	Peak Integrated by Software incorrectly
Q1726-04DL	VL04237 9.D	Benzene	SAM	4/18/20 25 4:19:52 PM	MMDado da	4/18/20 25 10:43:34 PM	Peak Integrated by Software incorrectly
Q1726-04DL	VL04237 9.D	Heptane	SAM	4/18/20 25 4:19:52 PM	MMDado da	4/18/20 25 10:43:34 PM	Peak Integrated by Software incorrectly

Q1726-04DL	VL042379.D	n-propylbenzene	SAM	4/18/2025 4:19:52 PM	MMDado da	4/18/2025 10:43:34 PM	Peak Integrated by Software incorrectly
Q1726-05DL	VL042380.D	Heptane	SAM	4/18/2025 4:19:46 PM	MMDado da	4/18/2025 10:43:30 PM	Peak Integrated by Software incorrectly
Q1726-05DL	VL042380.D	Propene	SAM	4/18/2025 4:19:46 PM	MMDado da	4/18/2025 10:43:30 PM	Peak Integrated by Software incorrectly
Q1726-06DL	VL042381.D	2-Butanone	SAM	4/18/2025 4:19:42 PM	MMDado da	4/18/2025 10:45:53 PM	Peak Integrated by Software incorrectly
Q1726-06DL	VL042381.D	Heptane	SAM	4/18/2025 4:19:42 PM	MMDado da	4/18/2025 10:45:53 PM	Peak Integrated by Software incorrectly
Q1726-06DL	VL042381.D	Hexane	SAM	4/18/2025 4:19:42 PM	MMDado da	4/18/2025 10:45:53 PM	Peak Integrated by Software incorrectly
Q1726-06DL	VL042381.D	m/p-Xylene	SAM	4/18/2025 4:19:42 PM	MMDado da	4/18/2025 10:45:53 PM	Peak Integrated by Software incorrectly

Q1726-06DL	VL042381.D	Propene	SAM	4/18/2025 4:19:42 PM	MMDado da	4/18/2025 10:45:53 PM	Peak Integrated by Software incorrectly
Q1726-06DL	VL042381.D	Toluene	SAM	4/18/2025 4:19:42 PM	MMDado da	4/18/2025 10:45:53 PM	Peak Integrated by Software incorrectly

Manual Integration Report			
Sequence	VL041825	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC010	VL042383.D	m/p-Xylene	SAM	4/21/2025 7:55:57 AM	MMDado da	4/21/2025 3:26:35 PM	Peak Integrated by Software incorrectly
VL0418ABS01	VL042385.D	m/p-Xylene	SAM	4/21/2025 7:56:01 AM	MMDado da	4/21/2025 3:26:35 PM	Peak Integrated by Software incorrectly
Q1726-07DL2	VL042386.D	m/p-Xylene	SAM	4/21/2025 7:56:07 AM	MMDado da	4/21/2025 3:26:35 PM	Peak Integrated by Software incorrectly
Q1726-07DL2	VL042386.D	Toluene	SAM	4/21/2025 7:56:07 AM	MMDado da	4/21/2025 3:26:35 PM	Peak Integrated by Software

							incorrectly
Q1726-01DL2	VL042387.D	1,3,5-Trimethylbenzene	SAM	4/21/2025 7:56:30 AM	MMDado da	4/21/2025 3:26:37 PM	Peak Integrated by Software incorrectly
Q1726-01DL2	VL042387.D	Ethyl Benzene	SAM	4/21/2025 7:56:30 AM	MMDado da	4/21/2025 3:26:37 PM	Peak Integrated by Software incorrectly
Q1726-01DL2	VL042387.D	Heptane	SAM	4/21/2025 7:56:30 AM	MMDado da	4/21/2025 3:26:37 PM	Peak Integrated by Software incorrectly
Q1726-02DL2	VL042388.D	2,2,4-Trimethylpentane	SAM	4/21/2025 7:56:12 AM	MMDado da	4/21/2025 3:26:38 PM	Peak Integrated by Software incorrectly
Q1726-02DL2	VL042388.D	Ethyl Benzene	SAM	4/21/2025 7:56:12 AM	MMDado da	4/21/2025 3:26:38 PM	Peak Integrated by Software incorrectly
Q1726-02DL2	VL042388.D	Heptane	SAM	4/21/2025 7:56:12 AM	MMDado da	4/21/2025 3:26:38 PM	Peak Integrated by Software incorrectly
Q1726-02DL2	VL042388.D	o-Xylene	SAM	4/21/2025 7:56:12 AM	MMDado da	4/21/2025 3:26:38 PM	Peak Integrated by Software

							e incorrect ly
Q1726-04DL2	VL042389.D	2,2,4-Trimethylpentane	SAM	4/21/2025 7:56:35 AM	MMDado da	4/21/2025 3:26:40 PM	Peak Integrated by Software incorrectly
Q1726-04DL2	VL042389.D	Ethyl Benzene	SAM	4/21/2025 7:56:35 AM	MMDado da	4/21/2025 3:26:40 PM	Peak Integrated by Software incorrectly
Q1726-04DL2	VL042389.D	Heptane	SAM	4/21/2025 7:56:35 AM	MMDado da	4/21/2025 3:26:40 PM	Peak Integrated by Software incorrectly
Q1726-03DL2	VL042390.D	Toluene	SAM	4/21/2025 7:56:40 AM	MMDado da	4/21/2025 3:26:42 PM	Peak Integrated by Software incorrectly
Q1726-05DL2	VL042391.D	m/p-Xylene	SAM	4/21/2025 7:56:45 AM	MMDado da	4/21/2025 3:26:44 PM	Peak Integrated by Software incorrectly
Q1726-05DL2	VL042391.D	Toluene	SAM	4/21/2025 7:56:45 AM	MMDado da	4/21/2025 3:26:44 PM	Peak Integrated by Software incorrectly
Q1726-06DL2	VL042392.D	Toluene	SAM	4/21/2025 7:56:17	MMDado da	4/21/2025 3:26:46	Peak Integrated by

				AM		PM	Software incorrectly
Q1726- 06DL2DUP	VL042393 .D	Toluene	SAM	4/21/20 25 7:56:21 AM	MMDado da	4/21/20 25 3:26:48 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 #: Q1726

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: MOHAMMAD AHMED

Date: 07/03/2025

LAB CHRONICLE

OrderID:	Q1726	OrderDate:	4/3/2025 1:58:00 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
Q1726-01	IA-DUP-3-03312025	Air	TO-15	TO-15	04/01/25		04/17/25	04/03/25
Q1726-01DL	IA-DUP-3-03312025D L	Air	TO-15	TO-15	04/01/25		04/18/25	04/03/25
Q1726-01DL 2	IA-DUP-3-03312025D L2	Air	TO-15	TO-15	04/01/25		04/18/25	04/03/25
Q1726-02	IA-B2-6-03312025	Air	TO-15	TO-15	04/01/25		04/17/25	04/03/25
Q1726-02DL	IA-B2-6-03312025DL	Air	TO-15	TO-15	04/01/25		04/18/25	04/03/25
Q1726-02DL 2	IA-B2-6-03312025DL 2	Air	TO-15	TO-15	04/01/25		04/18/25	04/03/25
Q1726-03	IA-B2-2-03312025	Air	TO-15	TO-15	04/01/25		04/17/25	04/03/25
Q1726-03DL	IA-B2-2-03312025DL	Air	TO-15	TO-15	04/01/25		04/18/25	04/03/25
Q1726-03DL 2	IA-B2-2-03312025DL 2	Air	TO-15	TO-15	04/01/25		04/18/25	04/03/25
Q1726-04	IA-B2-5-03312025	Air	TO-15	TO-15	04/01/25		04/17/25	04/03/25

LAB CHRONICLE

Q1726-04DL	IA-B2-5-03312025DL	Air			04/01/25		04/03/25
			TO-15	TO-15		04/18/25	
Q1726-04DL 2	IA-B2-5-03312025DL 2	Air			04/01/25		04/03/25
			TO-15	TO-15		04/18/25	
Q1726-05	IA-B2-1-03312025	Air			04/01/25		04/03/25
			TO-15	TO-15		04/17/25	
Q1726-05DL	IA-B2-1-03312025DL	Air			04/01/25		04/03/25
			TO-15	TO-15		04/18/25	
Q1726-05DL 2	IA-B2-1-03312025DL 2	Air			04/01/25		04/03/25
			TO-15	TO-15		04/18/25	
Q1726-06	IA-B2-3-03312025	Air			04/01/25		04/03/25
			TO-15	TO-15		04/17/25	
Q1726-06DL	IA-B2-3-03312025DL	Air			04/01/25		04/03/25
			TO-15	TO-15		04/18/25	
Q1726-06DL 2	IA-B2-3-03312025DL 2	Air			04/01/25		04/03/25
			TO-15	TO-15		04/18/25	
Q1726-07	IA-B2-4-03312025	Air			04/01/25		04/03/25
			TO-15	TO-15		04/17/25	
Q1726-07DL	IA-B2-4-03312025DL	Air			04/01/25		04/03/25
			TO-15	TO-15		04/17/25	
Q1726-07DL 2	IA-B2-4-03312025DL 2	Air			04/01/25		04/03/25
			TO-15	TO-15		04/18/25	

Hit Summary Sheet
SW-846

SDG No.: Q1726
Client: Woodard & Curran

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	IA-DUP-3-03312025							
Q1726-01	IA-DUP-3-0331202	Air	Dichlorodifluoromethane	2.37	J	1.04	2.47	ug/m3
Q1726-01	IA-DUP-3-0331202	Air	Ethanol	471	EQ	0.60	0.94	ug/m3
Q1726-01	IA-DUP-3-0331202	Air	Chloromethane	1.20		0.21	1.03	ug/m3
Q1726-01	IA-DUP-3-0331202	Air	Trichlorofluoromethane	1.35	J	0.90	2.81	ug/m3
Q1726-01	IA-DUP-3-0331202	Air	tert-Butyl alcohol	1.61		0.58	1.52	ug/m3
Q1726-01	IA-DUP-3-0331202	Air	Heptane	34.0		0.45	2.05	ug/m3
Q1726-01	IA-DUP-3-0331202	Air	Isopropyl Alcohol	70.1	E	0.17	1.23	ug/m3
Q1726-01	IA-DUP-3-0331202	Air	Acetone	356	E	0.57	1.19	ug/m3
Q1726-01	IA-DUP-3-0331202	Air	Methylene Chloride	7.30		0.66	1.74	ug/m3
Q1726-01	IA-DUP-3-0331202	Air	Cyclohexane	6.88		0.76	1.72	ug/m3
Q1726-01	IA-DUP-3-0331202	Air	2-Butanone	3.24		0.35	1.47	ug/m3
Q1726-01	IA-DUP-3-0331202	Air	Carbon Tetrachloride	0.50		0.060	0.19	ug/m3
Q1726-01	IA-DUP-3-0331202	Air	2,2,4-Trimethylpentane	85.0	E	0.47	2.34	ug/m3
Q1726-01	IA-DUP-3-0331202	Air	Benzene	5.43		0.29	1.60	ug/m3
Q1726-01	IA-DUP-3-0331202	Air	1,2-Dichloroethane	0.65	J	0.36	2.02	ug/m3
Q1726-01	IA-DUP-3-0331202	Air	Toluene	185	E	0.41	1.88	ug/m3
Q1726-01	IA-DUP-3-0331202	Air	Tetrachloroethene	0.68		0.14	0.20	ug/m3
Q1726-01	IA-DUP-3-0331202	Air	Ethyl Benzene	48.2		0.52	2.17	ug/m3
Q1726-01	IA-DUP-3-0331202	Air	m/p-Xylene	167	E	0.91	4.34	ug/m3
Q1726-01	IA-DUP-3-0331202	Air	o-Xylene	67.3	E	0.52	2.17	ug/m3
Q1726-01	IA-DUP-3-0331202	Air	Styrene	1.49	J	0.47	2.13	ug/m3
Q1726-01	IA-DUP-3-0331202	Air	2-Chlorotoluene	4.97		0.57	2.59	ug/m3
Q1726-01	IA-DUP-3-0331202	Air	1,3,5-Trimethylbenzene	34.4		0.54	2.46	ug/m3
Q1726-01	IA-DUP-3-0331202	Air	1,2,4-Trimethylbenzene	94.9	E	0.39	2.46	ug/m3
Q1726-01	IA-DUP-3-0331202	Air	1,4-Dichlorobenzene	1.56	J	0.30	3.01	ug/m3
Q1726-01	IA-DUP-3-0331202	Air	Naphthalene	12.1		0.42	0.52	ug/m3
Q1726-01	IA-DUP-3-0331202	Air	4-Ethyltoluene	28.0		0.59	2.46	ug/m3
Q1726-01	IA-DUP-3-0331202	Air	Hexane	16.6		0.39	1.76	ug/m3
			Total Voc :			1710		
Q1726-01	IA-DUP-3-0331202	Air	Butane	* 7.90	J	0	0	ppbv
Q1726-01	IA-DUP-3-0331202	Air	Cyclohexane, methyl-	* 9.30	J	0	0	ppbv
Q1726-01	IA-DUP-3-0331202	Air	Octane	* 9.70	J	0	0	ppbv
Q1726-01	IA-DUP-3-0331202	Air	Pentane, 2,3,4-trimethyl-	* 12.5	J	0	0	ppbv
Q1726-01	IA-DUP-3-0331202	Air	Hexane, 3-methyl-	* 11.2	J	0	0	ppbv
Q1726-01	IA-DUP-3-0331202	Air	Heptane, 3-methyl-	* 9.50	J	0	0	ppbv

Hit Summary Sheet SW-846

SDG No.: Q1726

Client: Woodard & Curran

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q1726-01	IA-DUP-3-0331202	Air	Hexane, 2-methyl-	* 10.4	J	0	0	ppbv
Q1726-01	IA-DUP-3-0331202	Air	Hexane, 2,5-dimethyl-	* 6.50	J	0	0	ppbv
Q1726-01	IA-DUP-3-0331202	Air	Benzene, 1-ethyl-2-methyl-	* 7.00	J	0	0	ppbv
Q1726-01	IA-DUP-3-0331202	Air	Benzene, 1-ethyl-2,3-dimethyl-	* 7.60	J	0	0	ppbv
Q1726-01	IA-DUP-3-0331202	Air	Chlorodifluoromethane	* 0.25	J	0.090	0.50	ppbv
Q1726-01	IA-DUP-3-0331202	Air	Naphthalene,2-methyl-	* 1.20	J	0.15	0.50	ppbv
Q1726-01	IA-DUP-3-0331202	Air	Propene	* 2.50	J	0.15	0.50	ppbv
Q1726-01	IA-DUP-3-0331202	Air	Isopropylbenzene	* 0.99	J	0.090	0.50	ppbv
Q1726-01	IA-DUP-3-0331202	Air	n-propylbenzene	* 3.30	J	0.080	0.50	ppbv
Q1726-01	IA-DUP-3-0331202	Air	sec-Butylbenzene	* 0.24	J	0.090	0.50	ppbv
Q1726-01	IA-DUP-3-0331202	Air	p-Isopropyltoluene	* 0.38	J	0.090	0.50	ppbv
Q1726-01	IA-DUP-3-0331202	Air	n-Butylbenzene	* 1.30	J	0.080	0.50	ppbv
Total Tics :				102				
Total Concentration:				1810				
Client ID:	IA-DUP-3-03312025DL							
Q1726-01DL	IA-DUP-3-0331202	Air	Ethanol	622	EDQ	12.1	18.8	ug/m3
Q1726-01DL	IA-DUP-3-0331202	Air	Heptane	39.3	JD	9.02	41.0	ug/m3
Q1726-01DL	IA-DUP-3-0331202	Air	Isopropyl Alcohol	88.2	D	3.44	24.6	ug/m3
Q1726-01DL	IA-DUP-3-0331202	Air	Acetone	1500	ED	11.4	23.8	ug/m3
Q1726-01DL	IA-DUP-3-0331202	Air	2,2,4-Trimethylpentane	95.3	D	9.34	46.7	ug/m3
Q1726-01DL	IA-DUP-3-0331202	Air	Benzene	7.35	JD	5.43	31.9	ug/m3
Q1726-01DL	IA-DUP-3-0331202	Air	Toluene	217	D	8.29	37.7	ug/m3
Q1726-01DL	IA-DUP-3-0331202	Air	Ethyl Benzene	52.6	D	10.4	43.4	ug/m3
Q1726-01DL	IA-DUP-3-0331202	Air	m/p-Xylene	192	D	18.2	86.9	ug/m3
Q1726-01DL	IA-DUP-3-0331202	Air	o-Xylene	74.7	D	10.4	43.4	ug/m3
Q1726-01DL	IA-DUP-3-0331202	Air	1,3,5-Trimethylbenzene	36.9	JD	10.8	49.2	ug/m3
Q1726-01DL	IA-DUP-3-0331202	Air	1,2,4-Trimethylbenzene	111	D	7.87	49.2	ug/m3
Q1726-01DL	IA-DUP-3-0331202	Air	4-Ethyltoluene	32.0	JD	11.8	49.2	ug/m3
Total Voc :				3060				
Total Concentration:				3060				
Client ID:	IA-DUP-3-03312025DL2							
Q1726-01DL2	IA-DUP-3-0331202	Air	Ethanol	415	DQ	24.1	37.7	ug/m3
Q1726-01DL2	IA-DUP-3-0331202	Air	Heptane	27.9	JDQ	18.0	82.0	ug/m3
Q1726-01DL2	IA-DUP-3-0331202	Air	Isopropyl Alcohol	72.0	D	6.88	49.2	ug/m3
Q1726-01DL2	IA-DUP-3-0331202	Air	Acetone	1160	D	22.8	47.5	ug/m3
Q1726-01DL2	IA-DUP-3-0331202	Air	2,2,4-Trimethylpentane	59.8	JD	18.7	93.4	ug/m3
Q1726-01DL2	IA-DUP-3-0331202	Air	Toluene	142	D	16.6	75.4	ug/m3

Hit Summary Sheet
SW-846

SDG No.: Q1726

Client: Woodard & Curran

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q1726-01DL2	IA-DUP-3-0331202	Air	Ethyl Benzene	34.8	JD	20.9	86.9	ug/m3
Q1726-01DL2	IA-DUP-3-0331202	Air	m/p-Xylene	124	JD	36.5	174	ug/m3
Q1726-01DL2	IA-DUP-3-0331202	Air	o-Xylene	49.5	JD	20.9	86.9	ug/m3
Q1726-01DL2	IA-DUP-3-0331202	Air	1,3,5-Trimethylbenzene	25.6	JD	21.6	98.3	ug/m3
Q1726-01DL2	IA-DUP-3-0331202	Air	1,2,4-Trimethylbenzene	70.8	JD	15.2	98.3	ug/m3
Total Voc :				2190				
Total Concentration:				2190				
Client ID:	IA-B2-6-03312025							
Q1726-02	IA-B2-6-03312025	Air	Dichlorodifluoromethane	2.42	J	1.04	2.47	ug/m3
Q1726-02	IA-B2-6-03312025	Air	Ethanol	452	EQ	0.60	0.94	ug/m3
Q1726-02	IA-B2-6-03312025	Air	Chloromethane	10.1		0.21	1.03	ug/m3
Q1726-02	IA-B2-6-03312025	Air	Tetrahydrofuran	1.33	J	0.38	1.47	ug/m3
Q1726-02	IA-B2-6-03312025	Air	Trichlorofluoromethane	1.29	J	0.90	2.81	ug/m3
Q1726-02	IA-B2-6-03312025	Air	tert-Butyl alcohol	3.33		0.58	1.52	ug/m3
Q1726-02	IA-B2-6-03312025	Air	Heptane	27.1		0.45	2.05	ug/m3
Q1726-02	IA-B2-6-03312025	Air	Isopropyl Alcohol	60.7	E	0.17	1.23	ug/m3
Q1726-02	IA-B2-6-03312025	Air	Acetone	309	E	0.57	1.19	ug/m3
Q1726-02	IA-B2-6-03312025	Air	Methylene Chloride	24.3		0.66	1.74	ug/m3
Q1726-02	IA-B2-6-03312025	Air	Cyclohexane	5.85		0.76	1.72	ug/m3
Q1726-02	IA-B2-6-03312025	Air	2-Butanone	5.60		0.35	1.47	ug/m3
Q1726-02	IA-B2-6-03312025	Air	Carbon Tetrachloride	0.63		0.060	0.19	ug/m3
Q1726-02	IA-B2-6-03312025	Air	Chloroform	1.81	J	0.39	2.44	ug/m3
Q1726-02	IA-B2-6-03312025	Air	1,1,1-Trichloroethane	0.38		0.050	0.16	ug/m3
Q1726-02	IA-B2-6-03312025	Air	2,2,4-Trimethylpentane	67.7		0.47	2.34	ug/m3
Q1726-02	IA-B2-6-03312025	Air	Benzene	5.43		0.29	1.60	ug/m3
Q1726-02	IA-B2-6-03312025	Air	1,2-Dichloroethane	0.69	J	0.36	2.02	ug/m3
Q1726-02	IA-B2-6-03312025	Air	Toluene	150	E	0.41	1.88	ug/m3
Q1726-02	IA-B2-6-03312025	Air	Tetrachloroethene	0.75		0.14	0.20	ug/m3
Q1726-02	IA-B2-6-03312025	Air	Ethyl Benzene	37.4		0.52	2.17	ug/m3
Q1726-02	IA-B2-6-03312025	Air	m/p-Xylene	128		0.91	4.34	ug/m3
Q1726-02	IA-B2-6-03312025	Air	o-Xylene	50.4		0.52	2.17	ug/m3
Q1726-02	IA-B2-6-03312025	Air	Styrene	1.36	J	0.47	2.13	ug/m3
Q1726-02	IA-B2-6-03312025	Air	2-Chlorotoluene	4.61		0.57	2.59	ug/m3
Q1726-02	IA-B2-6-03312025	Air	1,3,5-Trimethylbenzene	26.1		0.54	2.46	ug/m3
Q1726-02	IA-B2-6-03312025	Air	1,2,4-Trimethylbenzene	73.3		0.39	2.46	ug/m3
Q1726-02	IA-B2-6-03312025	Air	1,4-Dichlorobenzene	1.32	J	0.30	3.01	ug/m3
Q1726-02	IA-B2-6-03312025	Air	Naphthalene	8.91		0.42	0.52	ug/m3

Hit Summary Sheet SW-846

SDG No.: Q1726

Client: Woodard & Curran

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q1726-02	IA-B2-6-03312025	Air	4-Ethyltoluene	21.6		0.59	2.46	ug/m3
Q1726-02	IA-B2-6-03312025	Air	Hexane	24.7		0.39	1.76	ug/m3
			Total Voc :	1510				
Q1726-02	IA-B2-6-03312025	Air	Butane	* 12.1	J	0	0	ppbv
Q1726-02	IA-B2-6-03312025	Air	Pentane, 2-methyl-	* 5.90	J	0	0	ppbv
Q1726-02	IA-B2-6-03312025	Air	Cyclohexane, methyl-	* 7.40	J	0	0	ppbv
Q1726-02	IA-B2-6-03312025	Air	Octane	* 7.50	J	0	0	ppbv
Q1726-02	IA-B2-6-03312025	Air	Pentane, 2,3,4-trimethyl-	* 9.90	J	0	0	ppbv
Q1726-02	IA-B2-6-03312025	Air	Hexane, 3-methyl-	* 9.10	J	0	0	ppbv
Q1726-02	IA-B2-6-03312025	Air	Heptane, 3-methyl-	* 7.10	J	0	0	ppbv
Q1726-02	IA-B2-6-03312025	Air	Hexane, 2-methyl-	* 8.20	J	0	0	ppbv
Q1726-02	IA-B2-6-03312025	Air	Benzene, 1-ethyl-2,4-dimethyl-	* 5.70	J	0	0	ppbv
Q1726-02	IA-B2-6-03312025	Air	Hexane, 2,2,5-trimethyl-	* 5.20	J	0	0	ppbv
Q1726-02	IA-B2-6-03312025	Air	Chlorodifluoromethane	* 0.22	J	0.090	0.50	ppbv
Q1726-02	IA-B2-6-03312025	Air	Naphthalene,2-methyl-	* 0.77	J	0.15	0.50	ppbv
Q1726-02	IA-B2-6-03312025	Air	Propene	* 2.60	J	0.15	0.50	ppbv
Q1726-02	IA-B2-6-03312025	Air	Isopropylbenzene	* 0.74	J	0.090	0.50	ppbv
Q1726-02	IA-B2-6-03312025	Air	n-propylbenzene	* 2.60	J	0.080	0.50	ppbv
Q1726-02	IA-B2-6-03312025	Air	sec-Butylbenzene	* 0.18	J	0.090	0.50	ppbv
Q1726-02	IA-B2-6-03312025	Air	p-Isopropyltoluene	* 0.32	J	0.090	0.50	ppbv
Q1726-02	IA-B2-6-03312025	Air	n-Butylbenzene	* 0.94	J	0.080	0.50	ppbv
			Total Tics :	86.5				
			Total Concentration:	1590				
Client ID:	IA-B2-6-03312025DL							
Q1726-02DL	IA-B2-6-03312025I	Air	Ethanol	528	DQ	12.1	18.8	ug/m3
Q1726-02DL	IA-B2-6-03312025I	Air	Chloromethane	13.8	JD	4.13	20.6	ug/m3
Q1726-02DL	IA-B2-6-03312025I	Air	Heptane	30.7	JD	9.02	41.0	ug/m3
Q1726-02DL	IA-B2-6-03312025I	Air	Isopropyl Alcohol	74.7	D	3.44	24.6	ug/m3
Q1726-02DL	IA-B2-6-03312025I	Air	Acetone	784	ED	11.4	23.8	ug/m3
Q1726-02DL	IA-B2-6-03312025I	Air	2-Butanone	7.08	JD	7.08	29.5	ug/m3
Q1726-02DL	IA-B2-6-03312025I	Air	2,2,4-Trimethylpentane	72.9	D	9.34	46.7	ug/m3
Q1726-02DL	IA-B2-6-03312025I	Air	Benzene	7.99	JD	5.43	31.9	ug/m3
Q1726-02DL	IA-B2-6-03312025I	Air	Toluene	171	D	8.29	37.7	ug/m3
Q1726-02DL	IA-B2-6-03312025I	Air	Ethyl Benzene	39.5	JD	10.4	43.4	ug/m3
Q1726-02DL	IA-B2-6-03312025I	Air	m/p-Xylene	147	D	18.2	86.9	ug/m3
Q1726-02DL	IA-B2-6-03312025I	Air	o-Xylene	58.2	D	10.4	43.4	ug/m3
Q1726-02DL	IA-B2-6-03312025I	Air	1,3,5-Trimethylbenzene	26.6	JD	10.8	49.2	ug/m3

Hit Summary Sheet
SW-846

SDG No.: Q1726

Client: Woodard & Curran

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q1726-02DL	IA-B2-6-03312025I	Air	1,2,4-Trimethylbenzene	84.1	D	7.87	49.2	ug/m3
Q1726-02DL	IA-B2-6-03312025I	Air	4-Ethyltoluene	23.1	JD	11.8	49.2	ug/m3
Total Voc :				2070				
Total Concentration:				2070				
Client ID:	IA-B2-6-03312025DL2							
Q1726-02DL2	IA-B2-6-03312025I	Air	Ethanol	396	DQ	24.1	37.7	ug/m3
Q1726-02DL2	IA-B2-6-03312025I	Air	Chloromethane	10.3	JD	8.05	41.3	ug/m3
Q1726-02DL2	IA-B2-6-03312025I	Air	Heptane	22.1	JDQ	18.0	82.0	ug/m3
Q1726-02DL2	IA-B2-6-03312025I	Air	Isopropyl Alcohol	60.2	D	6.88	49.2	ug/m3
Q1726-02DL2	IA-B2-6-03312025I	Air	Acetone	570	D	22.8	47.5	ug/m3
Q1726-02DL2	IA-B2-6-03312025I	Air	2,2,4-Trimethylpentane	43.0	JD	18.7	93.4	ug/m3
Q1726-02DL2	IA-B2-6-03312025I	Air	Toluene	103	D	16.6	75.4	ug/m3
Q1726-02DL2	IA-B2-6-03312025I	Air	Ethyl Benzene	23.5	JD	20.9	86.9	ug/m3
Q1726-02DL2	IA-B2-6-03312025I	Air	m/p-Xylene	86.0	JD	36.5	174	ug/m3
Q1726-02DL2	IA-B2-6-03312025I	Air	o-Xylene	32.1	JD	20.9	86.9	ug/m3
Q1726-02DL2	IA-B2-6-03312025I	Air	1,2,4-Trimethylbenzene	47.7	JD	15.2	98.3	ug/m3
Total Voc :				1390				
Total Concentration:				1390				
Client ID:	IA-B2-2-03312025							
Q1726-03	IA-B2-2-03312025	Air	Dichlorodifluoromethane	2.32	J	1.04	2.47	ug/m3
Q1726-03	IA-B2-2-03312025	Air	Ethanol	433	EQ	0.60	0.94	ug/m3
Q1726-03	IA-B2-2-03312025	Air	Chloromethane	2.89		0.21	1.03	ug/m3
Q1726-03	IA-B2-2-03312025	Air	Tetrahydrofuran	0.80	J	0.38	1.47	ug/m3
Q1726-03	IA-B2-2-03312025	Air	Trichlorofluoromethane	1.40	J	0.90	2.81	ug/m3
Q1726-03	IA-B2-2-03312025	Air	tert-Butyl alcohol	2.24		0.58	1.52	ug/m3
Q1726-03	IA-B2-2-03312025	Air	Heptane	12.3		0.45	2.05	ug/m3
Q1726-03	IA-B2-2-03312025	Air	Isopropyl Alcohol	107	E	0.17	1.23	ug/m3
Q1726-03	IA-B2-2-03312025	Air	Acetone	428	E	0.57	1.19	ug/m3
Q1726-03	IA-B2-2-03312025	Air	Methylene Chloride	18.8		0.66	1.74	ug/m3
Q1726-03	IA-B2-2-03312025	Air	Cyclohexane	3.34		0.76	1.72	ug/m3
Q1726-03	IA-B2-2-03312025	Air	2-Butanone	4.42		0.35	1.47	ug/m3
Q1726-03	IA-B2-2-03312025	Air	Carbon Tetrachloride	0.57		0.060	0.19	ug/m3
Q1726-03	IA-B2-2-03312025	Air	Chloroform	0.63	J	0.39	2.44	ug/m3
Q1726-03	IA-B2-2-03312025	Air	2,2,4-Trimethylpentane	39.2		0.47	2.34	ug/m3
Q1726-03	IA-B2-2-03312025	Air	Benzene	2.88		0.29	1.60	ug/m3
Q1726-03	IA-B2-2-03312025	Air	1,2-Dichloroethane	0.65	J	0.36	2.02	ug/m3
Q1726-03	IA-B2-2-03312025	Air	Toluene	70.5	E	0.41	1.88	ug/m3

Hit Summary Sheet SW-846

SDG No.: Q1726

Client: Woodard & Curran

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q1726-03	IA-B2-2-03312025	Air	Tetrachloroethene	1.76		0.14	0.20	ug/m3
Q1726-03	IA-B2-2-03312025	Air	Ethyl Benzene	15.6		0.52	2.17	ug/m3
Q1726-03	IA-B2-2-03312025	Air	m/p-Xylene	54.7		0.91	4.34	ug/m3
Q1726-03	IA-B2-2-03312025	Air	o-Xylene	21.7		0.52	2.17	ug/m3
Q1726-03	IA-B2-2-03312025	Air	Styrene	1.70	J	0.47	2.13	ug/m3
Q1726-03	IA-B2-2-03312025	Air	2-Chlorotoluene	2.69		0.57	2.59	ug/m3
Q1726-03	IA-B2-2-03312025	Air	1,3,5-Trimethylbenzene	10.3		0.54	2.46	ug/m3
Q1726-03	IA-B2-2-03312025	Air	1,2,4-Trimethylbenzene	28.5		0.39	2.46	ug/m3
Q1726-03	IA-B2-2-03312025	Air	1,4-Dichlorobenzene	0.60	J	0.30	3.01	ug/m3
Q1726-03	IA-B2-2-03312025	Air	Naphthalene	2.20		0.42	0.52	ug/m3
Q1726-03	IA-B2-2-03312025	Air	4-Ethyltoluene	8.85		0.59	2.46	ug/m3
Q1726-03	IA-B2-2-03312025	Air	Hexane	15.2		0.39	1.76	ug/m3
Total Voc :				1300				
Q1726-03	IA-B2-2-03312025	Air	unknown2.276	* 3.90	J	0	0	ppbv
Q1726-03	IA-B2-2-03312025	Air	Butane	* 8.70	J	0	0	ppbv
Q1726-03	IA-B2-2-03312025	Air	Pentane, 2-methyl-	* 3.00	J	0	0	ppbv
Q1726-03	IA-B2-2-03312025	Air	Cyclohexane, methyl-	* 3.70	J	0	0	ppbv
Q1726-03	IA-B2-2-03312025	Air	2-Octanone	* 65.3	J	0	0	ppbv
Q1726-03	IA-B2-2-03312025	Air	Octane	* 4.20	J	0	0	ppbv
Q1726-03	IA-B2-2-03312025	Air	Pentane, 2,3,4-trimethyl-	* 5.60	J	0	0	ppbv
Q1726-03	IA-B2-2-03312025	Air	Hexane, 3-methyl-	* 4.70	J	0	0	ppbv
Q1726-03	IA-B2-2-03312025	Air	Hexane, 2-methyl-	* 3.90	J	0	0	ppbv
Q1726-03	IA-B2-2-03312025	Air	Chlorodifluoromethane	* 0.27	J	0.090	0.50	ppbv
Q1726-03	IA-B2-2-03312025	Air	Naphthalene,2-methyl-	* 0.17	J	0.15	0.50	ppbv
Q1726-03	IA-B2-2-03312025	Air	Propene	* 3.10	J	0.15	0.50	ppbv
Q1726-03	IA-B2-2-03312025	Air	Isopropylbenzene	* 0.34	J	0.090	0.50	ppbv
Q1726-03	IA-B2-2-03312025	Air	n-propylbenzene	* 1.00	J	0.080	0.50	ppbv
Q1726-03	IA-B2-2-03312025	Air	p-Isopropyltoluene	* 0.18	J	0.090	0.50	ppbv
Q1726-03	IA-B2-2-03312025	Air	n-Butylbenzene	* 0.39	J	0.080	0.50	ppbv
Total Tics :				108				
Total Concentration:				1400				
Client ID:	IA-B2-2-03312025DL							
Q1726-03DL	IA-B2-2-03312025I	Air	Ethanol	509	DQ	12.1	18.8	ug/m3
Q1726-03DL	IA-B2-2-03312025I	Air	Chloromethane	6.20	JD	4.13	20.6	ug/m3
Q1726-03DL	IA-B2-2-03312025I	Air	Heptane	13.1	JD	9.02	41.0	ug/m3
Q1726-03DL	IA-B2-2-03312025I	Air	Isopropyl Alcohol	121	D	3.44	24.6	ug/m3
Q1726-03DL	IA-B2-2-03312025I	Air	Acetone	2020	ED	11.4	23.8	ug/m3

Hit Summary Sheet
SW-846

SDG No.: Q1726

Client: Woodard & Curran

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q1726-03DL	IA-B2-2-03312025I	Air	2,2,4-Trimethylpentane	36.4	JD	9.34	46.7	ug/m3
Q1726-03DL	IA-B2-2-03312025I	Air	Toluene	67.1	D	8.29	37.7	ug/m3
Q1726-03DL	IA-B2-2-03312025I	Air	Ethyl Benzene	15.2	JD	10.4	43.4	ug/m3
Q1726-03DL	IA-B2-2-03312025I	Air	m/p-Xylene	52.1	JD	18.2	86.9	ug/m3
Q1726-03DL	IA-B2-2-03312025I	Air	o-Xylene	20.4	JD	10.4	43.4	ug/m3
Q1726-03DL	IA-B2-2-03312025I	Air	1,2,4-Trimethylbenzene	28.5	JD	7.87	49.2	ug/m3
Total Voc :				2890				
Total Concentration:				2890				
Client ID:	IA-B2-2-03312025DL2							
Q1726-03DL2	IA-B2-2-03312025I	Air	Ethanol	471	DQ	60.3	94.2	ug/m3
Q1726-03DL2	IA-B2-2-03312025I	Air	Isopropyl Alcohol	88.7	JD	17.0	123	ug/m3
Q1726-03DL2	IA-B2-2-03312025I	Air	Acetone	1450	D	57.0	119	ug/m3
Q1726-03DL2	IA-B2-2-03312025I	Air	Toluene	43.0	JD	41.5	188	ug/m3
Total Voc :				2050				
Total Concentration:				2050				
Client ID:	IA-B2-5-03312025							
Q1726-04	IA-B2-5-03312025	Air	Dichlorodifluoromethane	2.37	J	1.04	2.47	ug/m3
Q1726-04	IA-B2-5-03312025	Air	Ethanol	509	EQ	0.60	0.94	ug/m3
Q1726-04	IA-B2-5-03312025	Air	Chloromethane	1.36		0.21	1.03	ug/m3
Q1726-04	IA-B2-5-03312025	Air	Trichlorofluoromethane	1.24	J	0.90	2.81	ug/m3
Q1726-04	IA-B2-5-03312025	Air	tert-Butyl alcohol	2.00		0.58	1.52	ug/m3
Q1726-04	IA-B2-5-03312025	Air	Heptane	35.2		0.45	2.05	ug/m3
Q1726-04	IA-B2-5-03312025	Air	Isopropyl Alcohol	72.8	E	0.17	1.23	ug/m3
Q1726-04	IA-B2-5-03312025	Air	Acetone	356	E	0.57	1.19	ug/m3
Q1726-04	IA-B2-5-03312025	Air	Methylene Chloride	10.1		0.66	1.74	ug/m3
Q1726-04	IA-B2-5-03312025	Air	Cyclohexane	7.23		0.76	1.72	ug/m3
Q1726-04	IA-B2-5-03312025	Air	2-Butanone	3.54		0.35	1.47	ug/m3
Q1726-04	IA-B2-5-03312025	Air	Carbon Tetrachloride	0.44		0.060	0.19	ug/m3
Q1726-04	IA-B2-5-03312025	Air	2,2,4-Trimethylpentane	90.2	E	0.47	2.34	ug/m3
Q1726-04	IA-B2-5-03312025	Air	Benzene	6.07		0.29	1.60	ug/m3
Q1726-04	IA-B2-5-03312025	Air	Toluene	194	E	0.41	1.88	ug/m3
Q1726-04	IA-B2-5-03312025	Air	Tetrachloroethene	0.95		0.14	0.20	ug/m3
Q1726-04	IA-B2-5-03312025	Air	Ethyl Benzene	49.1		0.52	2.17	ug/m3
Q1726-04	IA-B2-5-03312025	Air	m/p-Xylene	169	E	0.91	4.34	ug/m3
Q1726-04	IA-B2-5-03312025	Air	o-Xylene	66.5	E	0.52	2.17	ug/m3
Q1726-04	IA-B2-5-03312025	Air	Styrene	1.62	J	0.47	2.13	ug/m3
Q1726-04	IA-B2-5-03312025	Air	2-Chlorotoluene	5.18		0.57	2.59	ug/m3

Hit Summary Sheet
SW-846

SDG No.: Q1726

Client: Woodard & Curran

Sample ID	Client ID	Matrix	Parameter	Concentration		C	MDL	RDL	Units
Q1726-04	IA-B2-5-03312025	Air	1,3,5-Trimethylbenzene	34.9			0.54	2.46	ug/m3
Q1726-04	IA-B2-5-03312025	Air	1,2,4-Trimethylbenzene	96.8		E	0.39	2.46	ug/m3
Q1726-04	IA-B2-5-03312025	Air	1,4-Dichlorobenzene	2.04		J	0.30	3.01	ug/m3
Q1726-04	IA-B2-5-03312025	Air	Naphthalene	12.6			0.42	0.52	ug/m3
Q1726-04	IA-B2-5-03312025	Air	4-Ethyltoluene	27.0			0.59	2.46	ug/m3
Q1726-04	IA-B2-5-03312025	Air	Hexane	19.7			0.39	1.76	ug/m3
Total Voc :				1780					
Q1726-04	IA-B2-5-03312025	Air	Cyclopentane, methyl-	*	6.80	J	0	0	ppbv
Q1726-04	IA-B2-5-03312025	Air	Butane	*	8.60	J	0	0	ppbv
Q1726-04	IA-B2-5-03312025	Air	Cyclohexane, methyl-	*	9.50	J	0	0	ppbv
Q1726-04	IA-B2-5-03312025	Air	Octane	*	9.90	J	0	0	ppbv
Q1726-04	IA-B2-5-03312025	Air	Pentane, 2,3,4-trimethyl-	*	13.4	J	0	0	ppbv
Q1726-04	IA-B2-5-03312025	Air	Hexane, 3-methyl-	*	11.4	J	0	0	ppbv
Q1726-04	IA-B2-5-03312025	Air	Heptane, 3-methyl-	*	9.40	J	0	0	ppbv
Q1726-04	IA-B2-5-03312025	Air	Hexane, 2-methyl-	*	10.4	J	0	0	ppbv
Q1726-04	IA-B2-5-03312025	Air	Hexane, 2,5-dimethyl-	*	7.00	J	0	0	ppbv
Q1726-04	IA-B2-5-03312025	Air	Benzene, 1-ethyl-2,4-dimethyl-	*	7.50	J	0	0	ppbv
Q1726-04	IA-B2-5-03312025	Air	Chlorodifluoromethane	*	0.27	J	0.090	0.50	ppbv
Q1726-04	IA-B2-5-03312025	Air	Naphthalene,2-methyl-	*	1.30	J	0.15	0.50	ppbv
Q1726-04	IA-B2-5-03312025	Air	Propene	*	2.60	J	0.15	0.50	ppbv
Q1726-04	IA-B2-5-03312025	Air	Isopropylbenzene	*	0.99	J	0.090	0.50	ppbv
Q1726-04	IA-B2-5-03312025	Air	n-propylbenzene	*	3.40	J	0.080	0.50	ppbv
Q1726-04	IA-B2-5-03312025	Air	sec-Butylbenzene	*	0.24	J	0.090	0.50	ppbv
Q1726-04	IA-B2-5-03312025	Air	p-Isopropyltoluene	*	0.44	J	0.090	0.50	ppbv
Q1726-04	IA-B2-5-03312025	Air	n-Butylbenzene	*	1.30	J	0.080	0.50	ppbv
Total Tics :				104					
Total Concentration:				1880					
Client ID:	IA-B2-5-03312025DL								
Q1726-04DL	IA-B2-5-03312025I	Air	Ethanol	641		EDQ	12.1	18.8	ug/m3
Q1726-04DL	IA-B2-5-03312025I	Air	Heptane	38.5		JD	9.02	41.0	ug/m3
Q1726-04DL	IA-B2-5-03312025I	Air	Isopropyl Alcohol	89.0		D	3.44	24.6	ug/m3
Q1726-04DL	IA-B2-5-03312025I	Air	Acetone	1260		ED	11.4	23.8	ug/m3
Q1726-04DL	IA-B2-5-03312025I	Air	2,2,4-Trimethylpentane	98.5		D	9.34	46.7	ug/m3
Q1726-04DL	IA-B2-5-03312025I	Air	Benzene	7.99		JD	5.43	31.9	ug/m3
Q1726-04DL	IA-B2-5-03312025I	Air	Toluene	220		D	8.29	37.7	ug/m3
Q1726-04DL	IA-B2-5-03312025I	Air	Ethyl Benzene	53.4		D	10.4	43.4	ug/m3
Q1726-04DL	IA-B2-5-03312025I	Air	m/p-Xylene	196		D	18.2	86.9	ug/m3

Hit Summary Sheet
SW-846

SDG No.: Q1726

Client: Woodard & Curran

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q1726-04DL	IA-B2-5-03312025I	Air	o-Xylene	73.0	D	10.4	43.4	ug/m3
Q1726-04DL	IA-B2-5-03312025I	Air	1,3,5-Trimethylbenzene	38.8	JD	10.8	49.2	ug/m3
Q1726-04DL	IA-B2-5-03312025I	Air	1,2,4-Trimethylbenzene	110	D	7.87	49.2	ug/m3
Q1726-04DL	IA-B2-5-03312025I	Air	4-Ethyltoluene	29.5	JD	11.8	49.2	ug/m3
Total Voc :				2850				
Total Concentration:				2850				
Client ID:	IA-B2-5-03312025DL2							
Q1726-04DL2	IA-B2-5-03312025I	Air	Ethanol	452	DQ	24.1	37.7	ug/m3
Q1726-04DL2	IA-B2-5-03312025I	Air	Heptane	25.4	JDQ	18.0	82.0	ug/m3
Q1726-04DL2	IA-B2-5-03312025I	Air	Isopropyl Alcohol	63.4	D	6.88	49.2	ug/m3
Q1726-04DL2	IA-B2-5-03312025I	Air	Acetone	903	D	22.8	47.5	ug/m3
Q1726-04DL2	IA-B2-5-03312025I	Air	2,2,4-Trimethylpentane	55.6	JD	18.7	93.4	ug/m3
Q1726-04DL2	IA-B2-5-03312025I	Air	Toluene	134	D	16.6	75.4	ug/m3
Q1726-04DL2	IA-B2-5-03312025I	Air	Ethyl Benzene	32.1	JD	20.9	86.9	ug/m3
Q1726-04DL2	IA-B2-5-03312025I	Air	m/p-Xylene	115	JD	36.5	174	ug/m3
Q1726-04DL2	IA-B2-5-03312025I	Air	o-Xylene	44.3	JD	20.9	86.9	ug/m3
Q1726-04DL2	IA-B2-5-03312025I	Air	1,3,5-Trimethylbenzene	23.1	JD	21.6	98.3	ug/m3
Q1726-04DL2	IA-B2-5-03312025I	Air	1,2,4-Trimethylbenzene	66.4	JD	15.2	98.3	ug/m3
Total Voc :				1910				
Total Concentration:				1910				
Client ID:	IA-B2-1-03312025							
Q1726-05	IA-B2-1-03312025	Air	Dichlorodifluoromethane	2.47		1.04	2.47	ug/m3
Q1726-05	IA-B2-1-03312025	Air	Ethanol	528	EQ	0.60	0.94	ug/m3
Q1726-05	IA-B2-1-03312025	Air	Chloromethane	1.34		0.21	1.03	ug/m3
Q1726-05	IA-B2-1-03312025	Air	Trichlorofluoromethane	1.40	J	0.90	2.81	ug/m3
Q1726-05	IA-B2-1-03312025	Air	tert-Butyl alcohol	2.15		0.58	1.52	ug/m3
Q1726-05	IA-B2-1-03312025	Air	Heptane	19.7		0.45	2.05	ug/m3
Q1726-05	IA-B2-1-03312025	Air	Isopropyl Alcohol	90.2	E	0.17	1.23	ug/m3
Q1726-05	IA-B2-1-03312025	Air	Acetone	404	E	0.57	1.19	ug/m3
Q1726-05	IA-B2-1-03312025	Air	Methylene Chloride	9.03		0.66	1.74	ug/m3
Q1726-05	IA-B2-1-03312025	Air	Cyclohexane	4.82		0.76	1.72	ug/m3
Q1726-05	IA-B2-1-03312025	Air	2-Butanone	3.54		0.35	1.47	ug/m3
Q1726-05	IA-B2-1-03312025	Air	Carbon Tetrachloride	0.57		0.060	0.19	ug/m3
Q1726-05	IA-B2-1-03312025	Air	1,1,1-Trichloroethane	0.16		0.050	0.16	ug/m3
Q1726-05	IA-B2-1-03312025	Air	2,2,4-Trimethylpentane	56.5		0.47	2.34	ug/m3
Q1726-05	IA-B2-1-03312025	Air	Benzene	4.15		0.29	1.60	ug/m3
Q1726-05	IA-B2-1-03312025	Air	Toluene	116	E	0.41	1.88	ug/m3

Hit Summary Sheet
SW-846

SDG No.: Q1726

Client: Woodard & Curran

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q1726-05	IA-B2-1-03312025	Air	Tetrachloroethene	1.36		0.14	0.20	ug/m3
Q1726-05	IA-B2-1-03312025	Air	Ethyl Benzene	26.9		0.52	2.17	ug/m3
Q1726-05	IA-B2-1-03312025	Air	m/p-Xylene	93.8		0.91	4.34	ug/m3
Q1726-05	IA-B2-1-03312025	Air	o-Xylene	36.5		0.52	2.17	ug/m3
Q1726-05	IA-B2-1-03312025	Air	Styrene	1.62	J	0.47	2.13	ug/m3
Q1726-05	IA-B2-1-03312025	Air	2-Chlorotoluene	4.14		0.57	2.59	ug/m3
Q1726-05	IA-B2-1-03312025	Air	1,3,5-Trimethylbenzene	16.7		0.54	2.46	ug/m3
Q1726-05	IA-B2-1-03312025	Air	1,2,4-Trimethylbenzene	45.7		0.39	2.46	ug/m3
Q1726-05	IA-B2-1-03312025	Air	1,4-Dichlorobenzene	0.90	J	0.30	3.01	ug/m3
Q1726-05	IA-B2-1-03312025	Air	Naphthalene	1.89		0.42	0.52	ug/m3
Q1726-05	IA-B2-1-03312025	Air	4-Ethyltoluene	15.2		0.59	2.46	ug/m3
Q1726-05	IA-B2-1-03312025	Air	Hexane	13.7		0.39	1.76	ug/m3
Total Voc :				1500				
Q1726-05	IA-B2-1-03312025	Air	1-Propanol	* 4.30	J	0	0	ppbv
Q1726-05	IA-B2-1-03312025	Air	Cyclopentane, methyl-	* 4.50	J	0	0	ppbv
Q1726-05	IA-B2-1-03312025	Air	Butane	* 10.0	J	0	0	ppbv
Q1726-05	IA-B2-1-03312025	Air	Cyclohexane, methyl-	* 5.70	J	0	0	ppbv
Q1726-05	IA-B2-1-03312025	Air	Octane	* 5.90	J	0	0	ppbv
Q1726-05	IA-B2-1-03312025	Air	Pentane, 2,3,4-trimethyl-	* 8.30	J	0	0	ppbv
Q1726-05	IA-B2-1-03312025	Air	Hexane, 3-methyl-	* 6.90	J	0	0	ppbv
Q1726-05	IA-B2-1-03312025	Air	Heptane, 3-methyl-	* 5.50	J	0	0	ppbv
Q1726-05	IA-B2-1-03312025	Air	Hexane, 2-methyl-	* 6.10	J	0	0	ppbv
Q1726-05	IA-B2-1-03312025	Air	Hexane, 2,2,4-trimethyl-	* 4.10	J	0	0	ppbv
Q1726-05	IA-B2-1-03312025	Air	Chlorodifluoromethane	* 0.28	J	0.090	0.50	ppbv
Q1726-05	IA-B2-1-03312025	Air	Propene	* 3.10	J	0.15	0.50	ppbv
Q1726-05	IA-B2-1-03312025	Air	Isopropylbenzene	* 0.57	J	0.090	0.50	ppbv
Q1726-05	IA-B2-1-03312025	Air	n-propylbenzene	* 1.90	J	0.080	0.50	ppbv
Q1726-05	IA-B2-1-03312025	Air	sec-Butylbenzene	* 0.13	J	0.090	0.50	ppbv
Q1726-05	IA-B2-1-03312025	Air	p-Isopropyltoluene	* 0.24	J	0.090	0.50	ppbv
Q1726-05	IA-B2-1-03312025	Air	n-Butylbenzene	* 0.55	J	0.080	0.50	ppbv
Total Tics :				68.1				
Total Concentration:				1570				
Client ID:	IA-B2-1-03312025DL							
Q1726-05DL	IA-B2-1-03312025I	Air	Ethanol	678	EDQ	12.1	18.8	ug/m3
Q1726-05DL	IA-B2-1-03312025I	Air	Heptane	22.9	JD	9.02	41.0	ug/m3
Q1726-05DL	IA-B2-1-03312025I	Air	Isopropyl Alcohol	116	D	3.44	24.6	ug/m3
Q1726-05DL	IA-B2-1-03312025I	Air	Acetone	1810	ED	11.4	23.8	ug/m3

Hit Summary Sheet SW-846

SDG No.: Q1726

Client: Woodard & Curran

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q1726-05DL	IA-B2-1-03312025I	Air	2,2,4-Trimethylpentane	58.4	D	9.34	46.7	ug/m3
Q1726-05DL	IA-B2-1-03312025I	Air	Toluene	132	D	8.29	37.7	ug/m3
Q1726-05DL	IA-B2-1-03312025I	Air	Ethyl Benzene	29.1	JD	10.4	43.4	ug/m3
Q1726-05DL	IA-B2-1-03312025I	Air	m/p-Xylene	104	D	18.2	86.9	ug/m3
Q1726-05DL	IA-B2-1-03312025I	Air	o-Xylene	39.5	JD	10.4	43.4	ug/m3
Q1726-05DL	IA-B2-1-03312025I	Air	1,3,5-Trimethylbenzene	19.7	JD	10.8	49.2	ug/m3
Q1726-05DL	IA-B2-1-03312025I	Air	1,2,4-Trimethylbenzene	48.7	JD	7.87	49.2	ug/m3
Q1726-05DL	IA-B2-1-03312025I	Air	4-Ethyltoluene	16.7	JD	11.8	49.2	ug/m3
Total Voc :				3070				
Total Concentration:				3070				
Client ID:	IA-B2-1-03312025DL2							
Q1726-05DL2	IA-B2-1-03312025I	Air	Ethanol	377	DQ	60.3	94.2	ug/m3
Q1726-05DL2	IA-B2-1-03312025I	Air	Isopropyl Alcohol	72.5	JD	17.0	123	ug/m3
Q1726-05DL2	IA-B2-1-03312025I	Air	Acetone	1210	D	57.0	119	ug/m3
Q1726-05DL2	IA-B2-1-03312025I	Air	Toluene	73.1	JD	41.5	188	ug/m3
Total Voc :				1730				
Total Concentration:				1730				
Client ID:	IA-B2-3-03312025							
Q1726-06	IA-B2-3-03312025	Air	Dichlorodifluoromethane	2.37	J	1.04	2.47	ug/m3
Q1726-06	IA-B2-3-03312025	Air	Ethanol	584	EQ	0.60	0.94	ug/m3
Q1726-06	IA-B2-3-03312025	Air	Chloromethane	2.48		0.21	1.03	ug/m3
Q1726-06	IA-B2-3-03312025	Air	Tetrahydrofuran	1.06	J	0.38	1.47	ug/m3
Q1726-06	IA-B2-3-03312025	Air	Trichlorofluoromethane	1.35	J	0.90	2.81	ug/m3
Q1726-06	IA-B2-3-03312025	Air	tert-Butyl alcohol	2.09		0.58	1.52	ug/m3
Q1726-06	IA-B2-3-03312025	Air	Heptane	13.9		0.45	2.05	ug/m3
Q1726-06	IA-B2-3-03312025	Air	Isopropyl Alcohol	84.8	E	0.17	1.23	ug/m3
Q1726-06	IA-B2-3-03312025	Air	Acetone	404	E	0.57	1.19	ug/m3
Q1726-06	IA-B2-3-03312025	Air	Methylene Chloride	11.1		0.66	1.74	ug/m3
Q1726-06	IA-B2-3-03312025	Air	Cyclohexane	3.79		0.76	1.72	ug/m3
Q1726-06	IA-B2-3-03312025	Air	2-Butanone	6.19		0.35	1.47	ug/m3
Q1726-06	IA-B2-3-03312025	Air	Carbon Tetrachloride	0.50		0.060	0.19	ug/m3
Q1726-06	IA-B2-3-03312025	Air	Chloroform	0.73	J	0.39	2.44	ug/m3
Q1726-06	IA-B2-3-03312025	Air	2,2,4-Trimethylpentane	43.9		0.47	2.34	ug/m3
Q1726-06	IA-B2-3-03312025	Air	Benzene	3.51		0.29	1.60	ug/m3
Q1726-06	IA-B2-3-03312025	Air	Toluene	84.0	E	0.41	1.88	ug/m3
Q1726-06	IA-B2-3-03312025	Air	Tetrachloroethene	0.95		0.14	0.20	ug/m3
Q1726-06	IA-B2-3-03312025	Air	Ethyl Benzene	18.7		0.52	2.17	ug/m3

Hit Summary Sheet
SW-846

SDG No.: Q1726

Client: Woodard & Curran

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q1726-06	IA-B2-3-03312025	Air	m/p-Xylene	64.7		0.91	4.34	ug/m3
Q1726-06	IA-B2-3-03312025	Air	o-Xylene	25.2		0.52	2.17	ug/m3
Q1726-06	IA-B2-3-03312025	Air	Styrene	1.66	J	0.47	2.13	ug/m3
Q1726-06	IA-B2-3-03312025	Air	2-Chlorotoluene	4.35		0.57	2.59	ug/m3
Q1726-06	IA-B2-3-03312025	Air	1,3,5-Trimethylbenzene	12.8		0.54	2.46	ug/m3
Q1726-06	IA-B2-3-03312025	Air	1,2,4-Trimethylbenzene	35.4		0.39	2.46	ug/m3
Q1726-06	IA-B2-3-03312025	Air	1,4-Dichlorobenzene	1.20	J	0.30	3.01	ug/m3
Q1726-06	IA-B2-3-03312025	Air	Naphthalene	2.36		0.42	0.52	ug/m3
Q1726-06	IA-B2-3-03312025	Air	4-Ethyltoluene	10.3		0.59	2.46	ug/m3
Q1726-06	IA-B2-3-03312025	Air	Hexane	12.3		0.39	1.76	ug/m3
Total Voc :				1440				
Q1726-06	IA-B2-3-03312025	Air	1-Propanol	* 5.60	J	0	0	ppbv
Q1726-06	IA-B2-3-03312025	Air	Cyclopentane, methyl-	* 4.30	J	0	0	ppbv
Q1726-06	IA-B2-3-03312025	Air	Butane	* 9.00	J	0	0	ppbv
Q1726-06	IA-B2-3-03312025	Air	Pentane, 2-methyl-	* 3.80	J	0	0	ppbv
Q1726-06	IA-B2-3-03312025	Air	Cyclohexane, methyl-	* 4.20	J	0	0	ppbv
Q1726-06	IA-B2-3-03312025	Air	Octane	* 4.70	J	0	0	ppbv
Q1726-06	IA-B2-3-03312025	Air	Pentane, 2,3,4-trimethyl-	* 6.20	J	0	0	ppbv
Q1726-06	IA-B2-3-03312025	Air	Hexane, 3-methyl-	* 5.00	J	0	0	ppbv
Q1726-06	IA-B2-3-03312025	Air	Heptane, 3-methyl-	* 3.80	J	0	0	ppbv
Q1726-06	IA-B2-3-03312025	Air	Hexane, 2-methyl-	* 4.40	J	0	0	ppbv
Q1726-06	IA-B2-3-03312025	Air	Chlorodifluoromethane	* 0.31	J	0.090	0.50	ppbv
Q1726-06	IA-B2-3-03312025	Air	Propene	* 3.00	J	0.15	0.50	ppbv
Q1726-06	IA-B2-3-03312025	Air	Isopropylbenzene	* 0.39	J	0.090	0.50	ppbv
Q1726-06	IA-B2-3-03312025	Air	n-propylbenzene	* 1.30	J	0.080	0.50	ppbv
Q1726-06	IA-B2-3-03312025	Air	p-Isopropyltoluene	* 0.31	J	0.090	0.50	ppbv
Q1726-06	IA-B2-3-03312025	Air	n-Butylbenzene	* 0.43	J	0.080	0.50	ppbv
Total Tics :				56.7				
Total Concentration:				1500				
Client ID:	IA-B2-3-03312025DL							
Q1726-06DL	IA-B2-3-03312025I	Air	Ethanol	697	EDQ	12.1	18.8	ug/m3
Q1726-06DL	IA-B2-3-03312025I	Air	Heptane	16.0	JD	9.02	41.0	ug/m3
Q1726-06DL	IA-B2-3-03312025I	Air	Isopropyl Alcohol	111	D	3.44	24.6	ug/m3
Q1726-06DL	IA-B2-3-03312025I	Air	Acetone	1590	ED	11.4	23.8	ug/m3
Q1726-06DL	IA-B2-3-03312025I	Air	2-Butanone	9.44	JD	7.08	29.5	ug/m3
Q1726-06DL	IA-B2-3-03312025I	Air	2,2,4-Trimethylpentane	46.2	JD	9.34	46.7	ug/m3
Q1726-06DL	IA-B2-3-03312025I	Air	Toluene	87.8	D	8.29	37.7	ug/m3

Hit Summary Sheet SW-846

SDG No.: Q1726

Client: Woodard & Curran

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q1726-06DL	IA-B2-3-03312025I	Air	Ethyl Benzene	19.1	JD	10.4	43.4	ug/m3
Q1726-06DL	IA-B2-3-03312025I	Air	m/p-Xylene	68.2	JD	18.2	86.9	ug/m3
Q1726-06DL	IA-B2-3-03312025I	Air	o-Xylene	26.1	JD	10.4	43.4	ug/m3
Q1726-06DL	IA-B2-3-03312025I	Air	1,3,5-Trimethylbenzene	13.3	JD	10.8	49.2	ug/m3
Q1726-06DL	IA-B2-3-03312025I	Air	1,2,4-Trimethylbenzene	37.4	JD	7.87	49.2	ug/m3
Total Voc :				2720				
Total Concentration:				2720				
Client ID:	IA-B2-3-03312025DL2							
Q1726-06DL2	IA-B2-3-03312025I	Air	Ethanol	546	DQ	60.3	94.2	ug/m3
Q1726-06DL2	IA-B2-3-03312025I	Air	Isopropyl Alcohol	86.3	JD	17.0	123	ug/m3
Q1726-06DL2	IA-B2-3-03312025I	Air	Acetone	1240	D	57.0	119	ug/m3
Q1726-06DL2	IA-B2-3-03312025I	Air	Toluene	53.1	JD	41.5	188	ug/m3
Total Voc :				1920				
Total Concentration:				1920				
Client ID:	IA-B2-4-03312025							
Q1726-07	IA-B2-4-03312025	Air	Dichlorodifluoromethane	2.52		1.04	2.47	ug/m3
Q1726-07	IA-B2-4-03312025	Air	Ethanol	603	EQ	0.60	0.94	ug/m3
Q1726-07	IA-B2-4-03312025	Air	Chloromethane	1.24		0.21	1.03	ug/m3
Q1726-07	IA-B2-4-03312025	Air	Trichlorofluoromethane	1.52	J	0.90	2.81	ug/m3
Q1726-07	IA-B2-4-03312025	Air	tert-Butyl alcohol	2.24		0.58	1.52	ug/m3
Q1726-07	IA-B2-4-03312025	Air	Heptane	17.2		0.45	2.05	ug/m3
Q1726-07	IA-B2-4-03312025	Air	Isopropyl Alcohol	84.3	E	0.17	1.23	ug/m3
Q1726-07	IA-B2-4-03312025	Air	Acetone	404	E	0.57	1.19	ug/m3
Q1726-07	IA-B2-4-03312025	Air	Methylene Chloride	9.38		0.66	1.74	ug/m3
Q1726-07	IA-B2-4-03312025	Air	Cyclohexane	4.47		0.76	1.72	ug/m3
Q1726-07	IA-B2-4-03312025	Air	2-Butanone	3.54		0.35	1.47	ug/m3
Q1726-07	IA-B2-4-03312025	Air	Carbon Tetrachloride	0.57		0.060	0.19	ug/m3
Q1726-07	IA-B2-4-03312025	Air	Chloroform	0.54	J	0.39	2.44	ug/m3
Q1726-07	IA-B2-4-03312025	Air	2,2,4-Trimethylpentane	49.5		0.47	2.34	ug/m3
Q1726-07	IA-B2-4-03312025	Air	Benzene	3.51		0.29	1.60	ug/m3
Q1726-07	IA-B2-4-03312025	Air	1,2-Dichloroethane	0.85	J	0.36	2.02	ug/m3
Q1726-07	IA-B2-4-03312025	Air	4-Methyl-2-Pentanone	1.72	J	0.37	2.05	ug/m3
Q1726-07	IA-B2-4-03312025	Air	Toluene	99.9	E	0.41	1.88	ug/m3
Q1726-07	IA-B2-4-03312025	Air	Tetrachloroethene	0.88		0.14	0.20	ug/m3
Q1726-07	IA-B2-4-03312025	Air	Ethyl Benzene	22.1		0.52	2.17	ug/m3
Q1726-07	IA-B2-4-03312025	Air	m/p-Xylene	76.0		0.91	4.34	ug/m3
Q1726-07	IA-B2-4-03312025	Air	o-Xylene	30.0		0.52	2.17	ug/m3

Hit Summary Sheet SW-846

SDG No.: Q1726

Client: Woodard & Curran

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q1726-07	IA-B2-4-03312025	Air	Styrene	1.58	J	0.47	2.13	ug/m3
Q1726-07	IA-B2-4-03312025	Air	2-Chlorotoluene	7.25		0.57	2.59	ug/m3
Q1726-07	IA-B2-4-03312025	Air	1,3,5-Trimethylbenzene	16.2		0.54	2.46	ug/m3
Q1726-07	IA-B2-4-03312025	Air	1,2,4-Trimethylbenzene	44.3		0.39	2.46	ug/m3
Q1726-07	IA-B2-4-03312025	Air	1,4-Dichlorobenzene	2.16	J	0.30	3.01	ug/m3
Q1726-07	IA-B2-4-03312025	Air	Naphthalene	3.04		0.42	0.52	ug/m3
Q1726-07	IA-B2-4-03312025	Air	4-Ethyltoluene	13.3		0.59	2.46	ug/m3
Q1726-07	IA-B2-4-03312025	Air	Hexane	13.4		0.39	1.76	ug/m3
Total Voc :				1520				
Q1726-07	IA-B2-4-03312025	Air	1-Propanol	* 5.00	J	0	0	ppbv
Q1726-07	IA-B2-4-03312025	Air	Butane	* 8.90	J	0	0	ppbv
Q1726-07	IA-B2-4-03312025	Air	Pentane, 2-methyl-	* 4.10	J	0	0	ppbv
Q1726-07	IA-B2-4-03312025	Air	Cyclohexane, methyl-	* 5.00	J	0	0	ppbv
Q1726-07	IA-B2-4-03312025	Air	Octane	* 5.10	J	0	0	ppbv
Q1726-07	IA-B2-4-03312025	Air	Pentane, 2,3,4-trimethyl-	* 7.10	J	0	0	ppbv
Q1726-07	IA-B2-4-03312025	Air	Hexane, 3-methyl-	* 5.80	J	0	0	ppbv
Q1726-07	IA-B2-4-03312025	Air	Hexane, 2-methyl-	* 5.40	J	0	0	ppbv
Q1726-07	IA-B2-4-03312025	Air	11H-Dibenzo[b,e][1,4]diazepin	* 4.30	J	0	0	ppbv
Q1726-07	IA-B2-4-03312025	Air	4-Methylpentyl pentanoate	* 4.70	J	0	0	ppbv
Q1726-07	IA-B2-4-03312025	Air	Chlorodifluoromethane	* 0.22	J	0.090	0.50	ppbv
Q1726-07	IA-B2-4-03312025	Air	Naphthalene,2-methyl-	* 0.21	J	0.15	0.50	ppbv
Q1726-07	IA-B2-4-03312025	Air	Propene	* 2.90	J	0.15	0.50	ppbv
Q1726-07	IA-B2-4-03312025	Air	Isopropylbenzene	* 0.50	J	0.090	0.50	ppbv
Q1726-07	IA-B2-4-03312025	Air	n-propylbenzene	* 1.70	J	0.080	0.50	ppbv
Q1726-07	IA-B2-4-03312025	Air	sec-Butylbenzene	* 0.12	J	0.090	0.50	ppbv
Q1726-07	IA-B2-4-03312025	Air	p-Isopropyltoluene	* 0.55	J	0.090	0.50	ppbv
Q1726-07	IA-B2-4-03312025	Air	n-Butylbenzene	* 0.54	J	0.080	0.50	ppbv
Total Tics :				62.1				
Total Concentration:				1580				
Client ID:	IA-B2-4-03312025DL							
Q1726-07DL	IA-B2-4-03312025I	Air	Ethanol	716	EDQ	12.1	18.8	ug/m3
Q1726-07DL	IA-B2-4-03312025I	Air	Heptane	20.9	JD	9.02	41.0	ug/m3
Q1726-07DL	IA-B2-4-03312025I	Air	Isopropyl Alcohol	93.2	D	3.44	24.6	ug/m3
Q1726-07DL	IA-B2-4-03312025I	Air	Acetone	1400	ED	11.4	23.8	ug/m3
Q1726-07DL	IA-B2-4-03312025I	Air	2,2,4-Trimethylpentane	50.9	D	9.34	46.7	ug/m3
Q1726-07DL	IA-B2-4-03312025I	Air	Toluene	103	D	8.29	37.7	ug/m3
Q1726-07DL	IA-B2-4-03312025I	Air	Ethyl Benzene	22.1	JD	10.4	43.4	ug/m3

Hit Summary Sheet
SW-846

SDG No.: Q1726

Client: Woodard & Curran

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q1726-07DL	IA-B2-4-03312025I	Air	m/p-Xylene	76.9	JD	18.2	86.9	ug/m3
Q1726-07DL	IA-B2-4-03312025I	Air	o-Xylene	29.5	JD	10.4	43.4	ug/m3
Q1726-07DL	IA-B2-4-03312025I	Air	1,3,5-Trimethylbenzene	17.7	JD	10.8	49.2	ug/m3
Q1726-07DL	IA-B2-4-03312025I	Air	1,2,4-Trimethylbenzene	46.2	JD	7.87	49.2	ug/m3
Q1726-07DL	IA-B2-4-03312025I	Air	4-Ethyltoluene	12.8	JD	11.8	49.2	ug/m3
Total Voc :				2590				
Total Concentration:				2590				
Client ID:	IA-B2-4-03312025DL2							
Q1726-07DL2	IA-B2-4-03312025I	Air	Ethanol	509	DQ	24.1	37.7	ug/m3
Q1726-07DL2	IA-B2-4-03312025I	Air	Isopropyl Alcohol	72.8	D	6.88	49.2	ug/m3
Q1726-07DL2	IA-B2-4-03312025I	Air	Acetone	1120	D	22.8	47.5	ug/m3
Q1726-07DL2	IA-B2-4-03312025I	Air	2,2,4-Trimethylpentane	33.6	JD	18.7	93.4	ug/m3
Q1726-07DL2	IA-B2-4-03312025I	Air	Toluene	69.0	JD	16.6	75.4	ug/m3
Q1726-07DL2	IA-B2-4-03312025I	Air	m/p-Xylene	53.0	JD	36.5	174	ug/m3
Total Voc :				1850				
Total Concentration:				1850				

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : IA-DUP-3-03312025

Analysis Date : 04/17/25

Laboratory Id Number : Q1726-01

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	0.48	J	2.37		
Ethanol	64-17-5	46.07	250	E	471		
Chloromethane	74-87-3	50.49	0.58		1.2		
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		
Bromoethene	593-60-2	106.9	0.12	U	0.52		
tert-Butyl alcohol	75-65-0	74.12	0.53		1.61		
Heptane	142-82-5	100.2	8.3		34.0		
Isopropyl Alcohol	67-63-0	60.1	28.5	E	70.1		
1,1-Dichloroethene	75-35-4	96.94	0.14	U	0.56		
Acetone	67-64-1	58.08	150	E	356		
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	2.1		7.3		
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	2		6.88		
2-Butanone	78-93-3	72.11	1.1		3.24		
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	18.2	E	85.0		
Benzene	71-43-2	78.11	1.7		5.43		
1,2-Dichloroethane	107-06-2	98.96	0.16	J	0.65		
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	0.09	U	0.37		
Toluene	108-88-3	92.14	49.2	E	185		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : IA-DUP-3-03312025

Analysis Date : 04/17/25

Laboratory Id Number : Q1726-01

Target Analyts : Air Results

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		
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	0.1		0.68		
Chlorobenzene	108-90-7	112.6	0.08	U	0.37		
Ethyl Benzene	100-41-4	106.2	11.1		48.2		
m/p-Xylene	179601-23-1	106.2	38.4	E	166		
o-Xylene	95-47-6	106.2	15.5	E	67.3		
Styrene	100-42-5	104.1	0.35	J	1.49		
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	0.96		4.97		
1,3,5-Trimethylbenzene	108-67-8	120.2	7		34.4		
1,2,4-Trimethylbenzene	95-63-6	120.2	19.3	E	94.9		
1,3-Dichlorobenzene	541-73-1	147	0.08	U	0.48		
1,4-Dichlorobenzene	106-46-7	147	0.26	J	1.56		
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	2.3		12.1		
1,3-Butadiene	106-99-0	54.09	0.13	U	0.29		
4-Ethyltoluene	622-96-8	120.2	5.7		28.0		
Hexane	110-54-3	86.17	4.7		16.6		
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 : 04/01/25

Field Id Number : IA-DUP-3-03312025DL

Analysis Date : 04/18/25

Laboratory Id Number : Q1726-01DL

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	4.2	UD	20.8		
Ethanol	64-17-5	46.07	330	ED	621		
Chloromethane	74-87-3	50.49	2	UD	4.13		
Vinyl Chloride	75-01-4	62.5	0.28	UD	0.72		
Bromomethane	74-83-9	94.94	2.8	UD	10.9		
Chloroethane	75-00-3	64.52	3.4	UD	8.97		
Tetrahydrofuran	109-99-9	72.11	2.6	UD	7.67		
Trichlorofluoromethane	75-69-4	137.4	3.2	UD	18.0		
Dichlorotetrafluoroethane	76-14-2	170.9	1.8	UD	12.6		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	3.2	UD	24.5		
Bromoethene	593-60-2	106.9	2.4	UD	10.5		
tert-Butyl alcohol	75-65-0	74.12	3.8	UD	11.5		
Heptane	142-82-5	100.2	9.6	JD	39.3		
Isopropyl Alcohol	67-63-0	60.1	35.9	D	88.2		
1,1-Dichloroethene	75-35-4	96.94	2.8	UD	11.1		
Acetone	67-64-1	58.08	630	ED	1496		
Carbon Disulfide	75-15-0	76.14	3.2	UD	9.97		
Methyl tert-Butyl Ether	1634-04-4	88.15	2.4	UD	8.65		
Methylene Chloride	75-09-2	84.94	3.8	UD	13.2		
trans-1,2-Dichloroethene	156-60-5	96.94	3.8	UD	15.1		
1,1-Dichloroethane	75-34-3	98.96	2.6	UD	10.5		
Cyclohexane	110-82-7	84.16	4.4	UD	15.2		
2-Butanone	78-93-3	72.11	2.4	UD	7.08		
Carbon Tetrachloride	56-23-5	153.8	0.22	UD	1.38		
cis-1,2-Dichloroethene	156-59-2	96.94	1.8	UD	7.14		
Chloroform	67-66-3	119.4	1.7	UD	8.3		
1,1,1-Trichloroethane	71-55-6	133.4	0.19	UD	1.04		
2,2,4-Trimethylpentane	540-84-1	114.2	20.4	D	95.3		
Benzene	71-43-2	78.11	2.3	JD	7.35		
1,2-Dichloroethane	107-06-2	98.96	1.8	UD	7.29		
Trichloroethene	79-01-6	131.4	0.34	UD	1.83		
1,2-Dichloropropane	78-87-5	113	2.2	UD	10.2		
Bromodichloromethane	75-27-4	163.8	1.5	UD	10.0		
4-Methyl-2-Pentanone	108-10-1	100.2	1.9	UD	7.79		
Toluene	108-88-3	92.14	57.5	D	216		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : IA-DUP-3-03312025DL

Analysis Date : 04/18/25

Laboratory Id Number : Q1726-01DL

Target Analyts : Air Results

t-1,3-Dichloropropene	10061-02-6	111	1.2	UD	5.45		
cis-1,3-Dichloropropene	10061-01-5	111	1.3	UD	5.9		
1,1,2-Trichloroethane	79-00-5	133.4	1.4	UD	7.64		
Dibromochloromethane	124-48-1	208.3	1.3	UD	11.1		
1,2-Dibromoethane	106-93-4	187.9	1.4	UD	10.8		
Tetrachloroethene	127-18-4	165.8	0.3	UD	2.03		
Chlorobenzene	108-90-7	112.6	1.5	UD	6.91		
Ethyl Benzene	100-41-4	106.2	12.1	D	52.6		
m/p-Xylene	179601-23-1	106.2	44.3	D	192		
o-Xylene	95-47-6	106.2	17.2	D	74.7		
Styrene	100-42-5	104.1	2.2	UD	9.37		
Bromoform	75-25-2	252.8	1.1	UD	11.4		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.22	UD	1.51		
2-Chlorotoluene	95-49-8	126.6	2.2	UD	11.4		
1,3,5-Trimethylbenzene	108-67-8	120.2	7.5	JD	36.9		
1,2,4-Trimethylbenzene	95-63-6	120.2	22.6	D	111		
1,3-Dichlorobenzene	541-73-1	147	1.6	UD	9.62		
1,4-Dichlorobenzene	106-46-7	147	1.1	UD	6.61		
1,2-Dichlorobenzene	95-50-1	147	1.5	UD	9.02		
1,2,4-Trichlorobenzene	120-82-1	181.5	1.7	UD	12.6		
Hexachloro-1,3-Butadiene	87-68-3	260.8	1.7	UD	18.1		
Naphthalene	91-20-3	128.17	1.5	UD	7.86		
1,3-Butadiene	106-99-0	54.09	2.6	UD	5.75		
4-Ethyltoluene	622-96-8	120.2	6.5	JD	32.0		
Hexane	110-54-3	86.17	2.2	UD	7.75		
Allyl Chloride	107-05-1	76.53	3	UD	9.39		
1,4-Dioxane	123-91-1	88.12	4.2	UD	15.1		
Methyl Methacrylate	80-62-6	100.117	1.7	UD	6.96		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : IA-DUP-3-03312025DL2

Analysis Date : 04/18/25

Laboratory Id Number : Q1726-01DL2

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	8.4	UD	41.5		
Ethanol	64-17-5	46.07	220	D	414		
Chloromethane	74-87-3	50.49	3.9	UD	8.05		
Vinyl Chloride	75-01-4	62.5	0.56	UD	1.43		
Bromomethane	74-83-9	94.94	5.6	UD	21.7		
Chloroethane	75-00-3	64.52	6.8	UD	17.9		
Tetrahydrofuran	109-99-9	72.11	5.2	UD	15.3		
Trichlorofluoromethane	75-69-4	137.4	6.4	UD	36.0		
Dichlorotetrafluoroethane	76-14-2	170.9	3.5	UD	24.5		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	6.4	UD	49.0		
Bromoethene	593-60-2	106.9	4.8	UD	21.0		
tert-Butyl alcohol	75-65-0	74.12	7.6	UD	23.0		
Heptane	142-82-5	100.2	6.8	JD	27.9		
Isopropyl Alcohol	67-63-0	60.1	29.3	D	72.0		
1,1-Dichloroethene	75-35-4	96.94	5.6	UD	22.2		
Acetone	67-64-1	58.08	490	D	1163		
Carbon Disulfide	75-15-0	76.14	6.4	UD	19.9		
Methyl tert-Butyl Ether	1634-04-4	88.15	4.8	UD	17.3		
Methylene Chloride	75-09-2	84.94	7.6	UD	26.4		
trans-1,2-Dichloroethene	156-60-5	96.94	7.6	UD	30.1		
1,1-Dichloroethane	75-34-3	98.96	5.2	UD	21.0		
Cyclohexane	110-82-7	84.16	8.8	UD	30.3		
2-Butanone	78-93-3	72.11	4.8	UD	14.2		
Carbon Tetrachloride	56-23-5	153.8	0.44	UD	2.77		
cis-1,2-Dichloroethene	156-59-2	96.94	3.6	UD	14.3		
Chloroform	67-66-3	119.4	3.3	UD	16.1		
1,1,1-Trichloroethane	71-55-6	133.4	0.38	UD	2.07		
2,2,4-Trimethylpentane	540-84-1	114.2	12.8	JD	59.8		
Benzene	71-43-2	78.11	3.5	UD	11.2		
1,2-Dichloroethane	107-06-2	98.96	3.6	UD	14.6		
Trichloroethene	79-01-6	131.4	0.68	UD	3.65		
1,2-Dichloropropane	78-87-5	113	4.4	UD	20.3		
Bromodichloromethane	75-27-4	163.8	3.1	UD	20.8		
4-Methyl-2-Pentanone	108-10-1	100.2	3.7	UD	15.2		
Toluene	108-88-3	92.14	37.8	D	142		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : IA-DUP-3-03312025DL2

Analysis Date : 04/18/25

Laboratory Id Number : Q1726-01DL2

Target Analyts : Air Results

t-1,3-Dichloropropene	10061-02-6	111	2.4	UD	10.9		
cis-1,3-Dichloropropene	10061-01-5	111	2.6	UD	11.8		
1,1,2-Trichloroethane	79-00-5	133.4	2.8	UD	15.3		
Dibromochloromethane	124-48-1	208.3	2.6	UD	22.2		
1,2-Dibromoethane	106-93-4	187.9	2.9	UD	22.3		
Tetrachloroethene	127-18-4	165.8	0.6	UD	4.07		
Chlorobenzene	108-90-7	112.6	3	UD	13.8		
Ethyl Benzene	100-41-4	106.2	8	JD	34.8		
m/p-Xylene	179601-23-1	106.2	28.6	JD	124		
o-Xylene	95-47-6	106.2	11.4	JD	49.5		
Styrene	100-42-5	104.1	4.4	UD	18.7		
Bromoform	75-25-2	252.8	2.3	UD	23.8		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.44	UD	3.02		
2-Chlorotoluene	95-49-8	126.6	4.4	UD	22.8		
1,3,5-Trimethylbenzene	108-67-8	120.2	5.2	JD	25.6		
1,2,4-Trimethylbenzene	95-63-6	120.2	14.4	JD	70.8		
1,3-Dichlorobenzene	541-73-1	147	3.2	UD	19.2		
1,4-Dichlorobenzene	106-46-7	147	2.1	UD	12.6		
1,2-Dichlorobenzene	95-50-1	147	3	UD	18.0		
1,2,4-Trichlorobenzene	120-82-1	181.5	3.4	UD	25.2		
Hexachloro-1,3-Butadiene	87-68-3	260.8	3.4	UD	36.3		
Naphthalene	91-20-3	128.17	3	UD	15.7		
1,3-Butadiene	106-99-0	54.09	5.2	UD	11.5		
4-Ethyltoluene	622-96-8	120.2	4.8	UD	23.6		
Hexane	110-54-3	86.17	4.4	UD	15.5		
Allyl Chloride	107-05-1	76.53	6	UD	18.8		
1,4-Dioxane	123-91-1	88.12	8.4	UD	30.3		
Methyl Methacrylate	80-62-6	100.117	3.4	UD	13.9		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : IA-B2-6-03312025

Analysis Date : 04/17/25

Laboratory Id Number : Q1726-02

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	0.49	J	2.42		
Ethanol	64-17-5	46.07	240	E	452		
Chloromethane	74-87-3	50.49	4.9		10.1		
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	0.45	J	1.33		
Trichlorofluoromethane	75-69-4	137.4	0.23	J	1.29		
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		
Bromoethene	593-60-2	106.9	0.12	U	0.52		
tert-Butyl alcohol	75-65-0	74.12	1.1		3.33		
Heptane	142-82-5	100.2	6.6		27.0		
Isopropyl Alcohol	67-63-0	60.1	24.7	E	60.7		
1,1-Dichloroethene	75-35-4	96.94	0.14	U	0.56		
Acetone	67-64-1	58.08	130	E	308		
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	7		24.3		
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	1.9		5.6		
Carbon Tetrachloride	56-23-5	153.8	0.1		0.63		
cis-1,2-Dichloroethene	156-59-2	96.94	0.09	U	0.36		
Chloroform	67-66-3	119.4	0.37	J	1.81		
1,1,1-Trichloroethane	71-55-6	133.4	0.07		0.38		
2,2,4-Trimethylpentane	540-84-1	114.2	14.5		67.7		
Benzene	71-43-2	78.11	1.7		5.43		
1,2-Dichloroethane	107-06-2	98.96	0.17	J	0.69		
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	0.09	U	0.37		
Toluene	108-88-3	92.14	39.7	E	149		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : IA-B2-6-03312025

Analysis Date : 04/17/25

Laboratory Id Number : Q1726-02

Target Analyts : Air Results

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		
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	0.11		0.75		
Chlorobenzene	108-90-7	112.6	0.08	U	0.37		
Ethyl Benzene	100-41-4	106.2	8.6		37.4		
m/p-Xylene	179601-23-1	106.2	29.5		128		
o-Xylene	95-47-6	106.2	11.6		50.4		
Styrene	100-42-5	104.1	0.32	J	1.36		
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	0.89		4.61		
1,3,5-Trimethylbenzene	108-67-8	120.2	5.3		26.1		
1,2,4-Trimethylbenzene	95-63-6	120.2	14.9		73.2		
1,3-Dichlorobenzene	541-73-1	147	0.08	U	0.48		
1,4-Dichlorobenzene	106-46-7	147	0.22	J	1.32		
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	1.7		8.91		
1,3-Butadiene	106-99-0	54.09	0.13	U	0.29		
4-Ethyltoluene	622-96-8	120.2	4.4		21.6		
Hexane	110-54-3	86.17	7		24.7		
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 : 04/01/25

Field Id Number : IA-B2-6-03312025DL

Analysis Date : 04/18/25

Laboratory Id Number : Q1726-02DL

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	4.2	UD	20.8		
Ethanol	64-17-5	46.07	280	D	527		
Chloromethane	74-87-3	50.49	6.7	JD	13.8		
Vinyl Chloride	75-01-4	62.5	0.28	UD	0.72		
Bromomethane	74-83-9	94.94	2.8	UD	10.9		
Chloroethane	75-00-3	64.52	3.4	UD	8.97		
Tetrahydrofuran	109-99-9	72.11	2.6	UD	7.67		
Trichlorofluoromethane	75-69-4	137.4	3.2	UD	18.0		
Dichlorotetrafluoroethane	76-14-2	170.9	1.8	UD	12.6		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	3.2	UD	24.5		
Bromoethene	593-60-2	106.9	2.4	UD	10.5		
tert-Butyl alcohol	75-65-0	74.12	3.8	UD	11.5		
Heptane	142-82-5	100.2	7.5	JD	30.7		
Isopropyl Alcohol	67-63-0	60.1	30.4	D	74.7		
1,1-Dichloroethene	75-35-4	96.94	2.8	UD	11.1		
Acetone	67-64-1	58.08	330	ED	783		
Carbon Disulfide	75-15-0	76.14	3.2	UD	9.97		
Methyl tert-Butyl Ether	1634-04-4	88.15	2.4	UD	8.65		
Methylene Chloride	75-09-2	84.94	3.8	UD	13.2		
trans-1,2-Dichloroethene	156-60-5	96.94	3.8	UD	15.1		
1,1-Dichloroethane	75-34-3	98.96	2.6	UD	10.5		
Cyclohexane	110-82-7	84.16	4.4	UD	15.2		
2-Butanone	78-93-3	72.11	2.4	JD	7.08		
Carbon Tetrachloride	56-23-5	153.8	0.22	UD	1.38		
cis-1,2-Dichloroethene	156-59-2	96.94	1.8	UD	7.14		
Chloroform	67-66-3	119.4	1.7	UD	8.3		
1,1,1-Trichloroethane	71-55-6	133.4	0.19	UD	1.04		
2,2,4-Trimethylpentane	540-84-1	114.2	15.6	D	72.9		
Benzene	71-43-2	78.11	2.5	JD	7.99		
1,2-Dichloroethane	107-06-2	98.96	1.8	UD	7.29		
Trichloroethene	79-01-6	131.4	0.34	UD	1.83		
1,2-Dichloropropane	78-87-5	113	2.2	UD	10.2		
Bromodichloromethane	75-27-4	163.8	1.5	UD	10.0		
4-Methyl-2-Pentanone	108-10-1	100.2	1.9	UD	7.79		
Toluene	108-88-3	92.14	45.3	D	170		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : IA-B2-6-03312025DL

Analysis Date : 04/18/25

Laboratory Id Number : Q1726-02DL

Target Analyts : Air Results

t-1,3-Dichloropropene	10061-02-6	111	1.2	UD	5.45		
cis-1,3-Dichloropropene	10061-01-5	111	1.3	UD	5.9		
1,1,2-Trichloroethane	79-00-5	133.4	1.4	UD	7.64		
Dibromochloromethane	124-48-1	208.3	1.3	UD	11.1		
1,2-Dibromoethane	106-93-4	187.9	1.4	UD	10.8		
Tetrachloroethene	127-18-4	165.8	0.3	UD	2.03		
Chlorobenzene	108-90-7	112.6	1.5	UD	6.91		
Ethyl Benzene	100-41-4	106.2	9.1	JD	39.5		
m/p-Xylene	179601-23-1	106.2	33.8	D	146		
o-Xylene	95-47-6	106.2	13.4	D	58.2		
Styrene	100-42-5	104.1	2.2	UD	9.37		
Bromoform	75-25-2	252.8	1.1	UD	11.4		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.22	UD	1.51		
2-Chlorotoluene	95-49-8	126.6	2.2	UD	11.4		
1,3,5-Trimethylbenzene	108-67-8	120.2	5.4	JD	26.6		
1,2,4-Trimethylbenzene	95-63-6	120.2	17.1	D	84.1		
1,3-Dichlorobenzene	541-73-1	147	1.6	UD	9.62		
1,4-Dichlorobenzene	106-46-7	147	1.1	UD	6.61		
1,2-Dichlorobenzene	95-50-1	147	1.5	UD	9.02		
1,2,4-Trichlorobenzene	120-82-1	181.5	1.7	UD	12.6		
Hexachloro-1,3-Butadiene	87-68-3	260.8	1.7	UD	18.1		
Naphthalene	91-20-3	128.17	1.5	UD	7.86		
1,3-Butadiene	106-99-0	54.09	2.6	UD	5.75		
4-Ethyltoluene	622-96-8	120.2	4.7	JD	23.1		
Hexane	110-54-3	86.17	2.2	UD	7.75		
Allyl Chloride	107-05-1	76.53	3	UD	9.39		
1,4-Dioxane	123-91-1	88.12	4.2	UD	15.1		
Methyl Methacrylate	80-62-6	100.117	1.7	UD	6.96		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : IA-B2-6-03312025DL2

Analysis Date : 04/18/25

Laboratory Id Number : Q1726-02DL2

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	8.4	UD	41.5		
Ethanol	64-17-5	46.07	210	D	395		
Chloromethane	74-87-3	50.49	5	JD	10.3		
Vinyl Chloride	75-01-4	62.5	0.56	UD	1.43		
Bromomethane	74-83-9	94.94	5.6	UD	21.7		
Chloroethane	75-00-3	64.52	6.8	UD	17.9		
Tetrahydrofuran	109-99-9	72.11	5.2	UD	15.3		
Trichlorofluoromethane	75-69-4	137.4	6.4	UD	36.0		
Dichlorotetrafluoroethane	76-14-2	170.9	3.5	UD	24.5		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	6.4	UD	49.0		
Bromoethene	593-60-2	106.9	4.8	UD	21.0		
tert-Butyl alcohol	75-65-0	74.12	7.6	UD	23.0		
Heptane	142-82-5	100.2	5.4	JD	22.1		
Isopropyl Alcohol	67-63-0	60.1	24.5	D	60.2		
1,1-Dichloroethene	75-35-4	96.94	5.6	UD	22.2		
Acetone	67-64-1	58.08	240	D	570		
Carbon Disulfide	75-15-0	76.14	6.4	UD	19.9		
Methyl tert-Butyl Ether	1634-04-4	88.15	4.8	UD	17.3		
Methylene Chloride	75-09-2	84.94	7.6	UD	26.4		
trans-1,2-Dichloroethene	156-60-5	96.94	7.6	UD	30.1		
1,1-Dichloroethane	75-34-3	98.96	5.2	UD	21.0		
Cyclohexane	110-82-7	84.16	8.8	UD	30.3		
2-Butanone	78-93-3	72.11	4.8	UD	14.2		
Carbon Tetrachloride	56-23-5	153.8	0.44	UD	2.77		
cis-1,2-Dichloroethene	156-59-2	96.94	3.6	UD	14.3		
Chloroform	67-66-3	119.4	3.3	UD	16.1		
1,1,1-Trichloroethane	71-55-6	133.4	0.38	UD	2.07		
2,2,4-Trimethylpentane	540-84-1	114.2	9.2	JD	43.0		
Benzene	71-43-2	78.11	3.5	UD	11.2		
1,2-Dichloroethane	107-06-2	98.96	3.6	UD	14.6		
Trichloroethene	79-01-6	131.4	0.68	UD	3.65		
1,2-Dichloropropane	78-87-5	113	4.4	UD	20.3		
Bromodichloromethane	75-27-4	163.8	3.1	UD	20.8		
4-Methyl-2-Pentanone	108-10-1	100.2	3.7	UD	15.2		
Toluene	108-88-3	92.14	27.4	D	103		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : IA-B2-6-03312025DL2

Analysis Date : 04/18/25

Laboratory Id Number : Q1726-02DL2

Target Analyts : Air Results

t-1,3-Dichloropropene	10061-02-6	111	2.4	UD	10.9		
cis-1,3-Dichloropropene	10061-01-5	111	2.6	UD	11.8		
1,1,2-Trichloroethane	79-00-5	133.4	2.8	UD	15.3		
Dibromochloromethane	124-48-1	208.3	2.6	UD	22.2		
1,2-Dibromoethane	106-93-4	187.9	2.9	UD	22.3		
Tetrachloroethene	127-18-4	165.8	0.6	UD	4.07		
Chlorobenzene	108-90-7	112.6	3	UD	13.8		
Ethyl Benzene	100-41-4	106.2	5.4	JD	23.5		
m/p-Xylene	179601-23-1	106.2	19.8	JD	86		
o-Xylene	95-47-6	106.2	7.4	JD	32.1		
Styrene	100-42-5	104.1	4.4	UD	18.7		
Bromoform	75-25-2	252.8	2.3	UD	23.8		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.44	UD	3.02		
2-Chlorotoluene	95-49-8	126.6	4.4	UD	22.8		
1,3,5-Trimethylbenzene	108-67-8	120.2	4.4	UD	21.6		
1,2,4-Trimethylbenzene	95-63-6	120.2	9.7	JD	47.7		
1,3-Dichlorobenzene	541-73-1	147	3.2	UD	19.2		
1,4-Dichlorobenzene	106-46-7	147	2.1	UD	12.6		
1,2-Dichlorobenzene	95-50-1	147	3	UD	18.0		
1,2,4-Trichlorobenzene	120-82-1	181.5	3.4	UD	25.2		
Hexachloro-1,3-Butadiene	87-68-3	260.8	3.4	UD	36.3		
Naphthalene	91-20-3	128.17	3	UD	15.7		
1,3-Butadiene	106-99-0	54.09	5.2	UD	11.5		
4-Ethyltoluene	622-96-8	120.2	4.8	UD	23.6		
Hexane	110-54-3	86.17	4.4	UD	15.5		
Allyl Chloride	107-05-1	76.53	6	UD	18.8		
1,4-Dioxane	123-91-1	88.12	8.4	UD	30.3		
Methyl Methacrylate	80-62-6	100.117	3.4	UD	13.9		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : IA-B2-2-03312025

Analysis Date : 04/17/25

Laboratory Id Number : Q1726-03

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	0.47	J	2.32		
Ethanol	64-17-5	46.07	230	E	433		
Chloromethane	74-87-3	50.49	1.4		2.89		
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	0.27	J	0.8		
Trichlorofluoromethane	75-69-4	137.4	0.25	J	1.4		
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		
Bromoethene	593-60-2	106.9	0.12	U	0.52		
tert-Butyl alcohol	75-65-0	74.12	0.74		2.24		
Heptane	142-82-5	100.2	3		12.3		
Isopropyl Alcohol	67-63-0	60.1	43.7	E	107		
1,1-Dichloroethene	75-35-4	96.94	0.14	U	0.56		
Acetone	67-64-1	58.08	180	E	427		
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	5.4		18.8		
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	0.97		3.34		
2-Butanone	78-93-3	72.11	1.5		4.42		
Carbon Tetrachloride	56-23-5	153.8	0.09		0.57		
cis-1,2-Dichloroethene	156-59-2	96.94	0.09	U	0.36		
Chloroform	67-66-3	119.4	0.13	J	0.63		
1,1,1-Trichloroethane	71-55-6	133.4	0.01	U	0.05		
2,2,4-Trimethylpentane	540-84-1	114.2	8.4		39.2		
Benzene	71-43-2	78.11	0.9		2.88		
1,2-Dichloroethane	107-06-2	98.96	0.16	J	0.65		
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	0.09	U	0.37		
Toluene	108-88-3	92.14	18.7	E	70.5		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : IA-B2-2-03312025

Analysis Date : 04/17/25

Laboratory Id Number : Q1726-03

Target Analyts : Air Results

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		
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	0.26		1.76		
Chlorobenzene	108-90-7	112.6	0.08	U	0.37		
Ethyl Benzene	100-41-4	106.2	3.6		15.6		
m/p-Xylene	179601-23-1	106.2	12.6		54.7		
o-Xylene	95-47-6	106.2	5		21.7		
Styrene	100-42-5	104.1	0.4	J	1.7		
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	0.52		2.69		
1,3,5-Trimethylbenzene	108-67-8	120.2	2.1		10.3		
1,2,4-Trimethylbenzene	95-63-6	120.2	5.8		28.5		
1,3-Dichlorobenzene	541-73-1	147	0.08	U	0.48		
1,4-Dichlorobenzene	106-46-7	147	0.1	J	0.6		
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	0.42		2.2		
1,3-Butadiene	106-99-0	54.09	0.13	U	0.29		
4-Ethyltoluene	622-96-8	120.2	1.8		8.85		
Hexane	110-54-3	86.17	4.3		15.2		
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 : 04/01/25

Field Id Number : IA-B2-2-03312025DL

Analysis Date : 04/18/25

Laboratory Id Number : Q1726-03DL

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	4.2	UD	20.8		
Ethanol	64-17-5	46.07	270	D	508		
Chloromethane	74-87-3	50.49	3	JD	6.2		
Vinyl Chloride	75-01-4	62.5	0.28	UD	0.72		
Bromomethane	74-83-9	94.94	2.8	UD	10.9		
Chloroethane	75-00-3	64.52	3.4	UD	8.97		
Tetrahydrofuran	109-99-9	72.11	2.6	UD	7.67		
Trichlorofluoromethane	75-69-4	137.4	3.2	UD	18.0		
Dichlorotetrafluoroethane	76-14-2	170.9	1.8	UD	12.6		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	3.2	UD	24.5		
Bromoethene	593-60-2	106.9	2.4	UD	10.5		
tert-Butyl alcohol	75-65-0	74.12	3.8	UD	11.5		
Heptane	142-82-5	100.2	3.2	JD	13.1		
Isopropyl Alcohol	67-63-0	60.1	49.2	D	120		
1,1-Dichloroethene	75-35-4	96.94	2.8	UD	11.1		
Acetone	67-64-1	58.08	850	ED	2019		
Carbon Disulfide	75-15-0	76.14	3.2	UD	9.97		
Methyl tert-Butyl Ether	1634-04-4	88.15	2.4	UD	8.65		
Methylene Chloride	75-09-2	84.94	3.8	UD	13.2		
trans-1,2-Dichloroethene	156-60-5	96.94	3.8	UD	15.1		
1,1-Dichloroethane	75-34-3	98.96	2.6	UD	10.5		
Cyclohexane	110-82-7	84.16	4.4	UD	15.2		
2-Butanone	78-93-3	72.11	2.4	UD	7.08		
Carbon Tetrachloride	56-23-5	153.8	0.22	UD	1.38		
cis-1,2-Dichloroethene	156-59-2	96.94	1.8	UD	7.14		
Chloroform	67-66-3	119.4	1.7	UD	8.3		
1,1,1-Trichloroethane	71-55-6	133.4	0.19	UD	1.04		
2,2,4-Trimethylpentane	540-84-1	114.2	7.8	JD	36.4		
Benzene	71-43-2	78.11	1.7	UD	5.43		
1,2-Dichloroethane	107-06-2	98.96	1.8	UD	7.29		
Trichloroethene	79-01-6	131.4	0.34	UD	1.83		
1,2-Dichloropropane	78-87-5	113	2.2	UD	10.2		
Bromodichloromethane	75-27-4	163.8	1.5	UD	10.0		
4-Methyl-2-Pentanone	108-10-1	100.2	1.9	UD	7.79		
Toluene	108-88-3	92.14	17.8	D	67.1		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : IA-B2-2-03312025DL

Analysis Date : 04/18/25

Laboratory Id Number : Q1726-03DL

Target Analyts : Air Results

t-1,3-Dichloropropene	10061-02-6	111	1.2	UD	5.45		
cis-1,3-Dichloropropene	10061-01-5	111	1.3	UD	5.9		
1,1,2-Trichloroethane	79-00-5	133.4	1.4	UD	7.64		
Dibromochloromethane	124-48-1	208.3	1.3	UD	11.1		
1,2-Dibromoethane	106-93-4	187.9	1.4	UD	10.8		
Tetrachloroethene	127-18-4	165.8	0.3	UD	2.03		
Chlorobenzene	108-90-7	112.6	1.5	UD	6.91		
Ethyl Benzene	100-41-4	106.2	3.5	JD	15.2		
m/p-Xylene	179601-23-1	106.2	12	JD	52.1		
o-Xylene	95-47-6	106.2	4.7	JD	20.4		
Styrene	100-42-5	104.1	2.2	UD	9.37		
Bromoform	75-25-2	252.8	1.1	UD	11.4		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.22	UD	1.51		
2-Chlorotoluene	95-49-8	126.6	2.2	UD	11.4		
1,3,5-Trimethylbenzene	108-67-8	120.2	2.2	UD	10.8		
1,2,4-Trimethylbenzene	95-63-6	120.2	5.8	JD	28.5		
1,3-Dichlorobenzene	541-73-1	147	1.6	UD	9.62		
1,4-Dichlorobenzene	106-46-7	147	1.1	UD	6.61		
1,2-Dichlorobenzene	95-50-1	147	1.5	UD	9.02		
1,2,4-Trichlorobenzene	120-82-1	181.5	1.7	UD	12.6		
Hexachloro-1,3-Butadiene	87-68-3	260.8	1.7	UD	18.1		
Naphthalene	91-20-3	128.17	1.5	UD	7.86		
1,3-Butadiene	106-99-0	54.09	2.6	UD	5.75		
4-Ethyltoluene	622-96-8	120.2	2.4	UD	11.8		
Hexane	110-54-3	86.17	2.2	UD	7.75		
Allyl Chloride	107-05-1	76.53	3	UD	9.39		
1,4-Dioxane	123-91-1	88.12	4.2	UD	15.1		
Methyl Methacrylate	80-62-6	100.117	1.7	UD	6.96		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : IA-B2-2-03312025DL2

Analysis Date : 04/18/25

Laboratory Id Number : Q1726-03DL2

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	21	UD	103		
Ethanol	64-17-5	46.07	250	D	471		
Chloromethane	74-87-3	50.49	9.8	UD	20.2		
Vinyl Chloride	75-01-4	62.5	1.4	UD	3.58		
Bromomethane	74-83-9	94.94	14	UD	54.4		
Chloroethane	75-00-3	64.52	17	UD	44.9		
Tetrahydrofuran	109-99-9	72.11	13	UD	38.3		
Trichlorofluoromethane	75-69-4	137.4	16	UD	89.9		
Dichlorotetrafluoroethane	76-14-2	170.9	8.8	UD	61.5		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	16	UD	122		
Bromoethene	593-60-2	106.9	12	UD	52.5		
tert-Butyl alcohol	75-65-0	74.12	19	UD	57.6		
Heptane	142-82-5	100.2	11	UD	45.1		
Isopropyl Alcohol	67-63-0	60.1	36.1	JD	88.7		
1,1-Dichloroethene	75-35-4	96.94	14	UD	55.5		
Acetone	67-64-1	58.08	610	D	1449		
Carbon Disulfide	75-15-0	76.14	16	UD	49.8		
Methyl tert-Butyl Ether	1634-04-4	88.15	12	UD	43.3		
Methylene Chloride	75-09-2	84.94	19	UD	66.0		
trans-1,2-Dichloroethene	156-60-5	96.94	19	UD	75.3		
1,1-Dichloroethane	75-34-3	98.96	13	UD	52.6		
Cyclohexane	110-82-7	84.16	22	UD	75.7		
2-Butanone	78-93-3	72.11	12	UD	35.4		
Carbon Tetrachloride	56-23-5	153.8	1.1	UD	6.92		
cis-1,2-Dichloroethene	156-59-2	96.94	8.9	UD	35.3		
Chloroform	67-66-3	119.4	8.3	UD	40.5		
1,1,1-Trichloroethane	71-55-6	133.4	0.95	UD	5.18		
2,2,4-Trimethylpentane	540-84-1	114.2	10	UD	46.7		
Benzene	71-43-2	78.11	8.7	UD	27.8		
1,2-Dichloroethane	107-06-2	98.96	9.1	UD	36.8		
Trichloroethene	79-01-6	131.4	1.7	UD	9.14		
1,2-Dichloropropane	78-87-5	113	11	UD	50.8		
Bromodichloromethane	75-27-4	163.8	7.7	UD	51.6		
4-Methyl-2-Pentanone	108-10-1	100.2	9.3	UD	38.1		
Toluene	108-88-3	92.14	11.4	JD	43.0		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : IA-B2-2-03312025DL2

Analysis Date : 04/18/25

Laboratory Id Number : Q1726-03DL2

Target Analyts : Air Results

t-1,3-Dichloropropene	10061-02-6	111	6	UD	27.2		
cis-1,3-Dichloropropene	10061-01-5	111	6.4	UD	29.1		
1,1,2-Trichloroethane	79-00-5	133.4	7.1	UD	38.7		
Dibromochloromethane	124-48-1	208.3	6.6	UD	56.2		
1,2-Dibromoethane	106-93-4	187.9	7.2	UD	55.3		
Tetrachloroethene	127-18-4	165.8	1.5	UD	10.2		
Chlorobenzene	108-90-7	112.6	7.6	UD	35		
Ethyl Benzene	100-41-4	106.2	12	UD	52.1		
m/p-Xylene	179601-23-1	106.2	21	UD	91.2		
o-Xylene	95-47-6	106.2	12	UD	52.1		
Styrene	100-42-5	104.1	11	UD	46.8		
Bromoform	75-25-2	252.8	5.7	UD	58.9		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	1.1	UD	7.55		
2-Chlorotoluene	95-49-8	126.6	11	UD	57.0		
1,3,5-Trimethylbenzene	108-67-8	120.2	11	UD	54.1		
1,2,4-Trimethylbenzene	95-63-6	120.2	7.8	UD	38.4		
1,3-Dichlorobenzene	541-73-1	147	8	UD	48.1		
1,4-Dichlorobenzene	106-46-7	147	5.3	UD	31.9		
1,2-Dichlorobenzene	95-50-1	147	7.5	UD	45.1		
1,2,4-Trichlorobenzene	120-82-1	181.5	8.5	UD	63.1		
Hexachloro-1,3-Butadiene	87-68-3	260.8	8.5	UD	90.7		
Naphthalene	91-20-3	128.17	7.5	UD	39.3		
1,3-Butadiene	106-99-0	54.09	13	UD	28.8		
4-Ethyltoluene	622-96-8	120.2	12	UD	59.0		
Hexane	110-54-3	86.17	11	UD	38.8		
Allyl Chloride	107-05-1	76.53	15	UD	47.0		
1,4-Dioxane	123-91-1	88.12	21	UD	75.7		
Methyl Methacrylate	80-62-6	100.117	8.6	UD	35.2		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : IA-B2-5-03312025

Analysis Date : 04/17/25

Laboratory Id Number : Q1726-04

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		
Ethanol	64-17-5	46.07	270	E	508		
Chloromethane	74-87-3	50.49	0.66		1.36		
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		
Bromoethene	593-60-2	106.9	0.12	U	0.52		
tert-Butyl alcohol	75-65-0	74.12	0.66		2		
Heptane	142-82-5	100.2	8.6		35.2		
Isopropyl Alcohol	67-63-0	60.1	29.6	E	72.8		
1,1-Dichloroethene	75-35-4	96.94	0.14	U	0.56		
Acetone	67-64-1	58.08	150	E	356		
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	2.9		10.1		
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	2.1		7.23		
2-Butanone	78-93-3	72.11	1.2		3.54		
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	19.3	E	90.2		
Benzene	71-43-2	78.11	1.9		6.07		
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	0.09	U	0.37		
Toluene	108-88-3	92.14	51.4	E	193		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : IA-B2-5-03312025

Analysis Date : 04/17/25

Laboratory Id Number : Q1726-04

Target Analyts : Air Results

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		
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	0.14		0.95		
Chlorobenzene	108-90-7	112.6	0.08	U	0.37		
Ethyl Benzene	100-41-4	106.2	11.3		49.1		
m/p-Xylene	179601-23-1	106.2	38.9	E	168		
o-Xylene	95-47-6	106.2	15.3	E	66.5		
Styrene	100-42-5	104.1	0.38	J	1.62		
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	1		5.18		
1,3,5-Trimethylbenzene	108-67-8	120.2	7.1		34.9		
1,2,4-Trimethylbenzene	95-63-6	120.2	19.7	E	96.8		
1,3-Dichlorobenzene	541-73-1	147	0.08	U	0.48		
1,4-Dichlorobenzene	106-46-7	147	0.34	J	2.04		
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	2.4		12.6		
1,3-Butadiene	106-99-0	54.09	0.13	U	0.29		
4-Ethyltoluene	622-96-8	120.2	5.5		27.0		
Hexane	110-54-3	86.17	5.6		19.7		
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 : 04/01/25

Field Id Number : IA-B2-5-03312025DL

Analysis Date : 04/18/25

Laboratory Id Number : Q1726-04DL

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	4.2	UD	20.8		
Ethanol	64-17-5	46.07	340	ED	640		
Chloromethane	74-87-3	50.49	2	UD	4.13		
Vinyl Chloride	75-01-4	62.5	0.28	UD	0.72		
Bromomethane	74-83-9	94.94	2.8	UD	10.9		
Chloroethane	75-00-3	64.52	3.4	UD	8.97		
Tetrahydrofuran	109-99-9	72.11	2.6	UD	7.67		
Trichlorofluoromethane	75-69-4	137.4	3.2	UD	18.0		
Dichlorotetrafluoroethane	76-14-2	170.9	1.8	UD	12.6		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	3.2	UD	24.5		
Bromoethene	593-60-2	106.9	2.4	UD	10.5		
tert-Butyl alcohol	75-65-0	74.12	3.8	UD	11.5		
Heptane	142-82-5	100.2	9.4	JD	38.5		
Isopropyl Alcohol	67-63-0	60.1	36.2	D	89.0		
1,1-Dichloroethene	75-35-4	96.94	2.8	UD	11.1		
Acetone	67-64-1	58.08	530	ED	1258		
Carbon Disulfide	75-15-0	76.14	3.2	UD	9.97		
Methyl tert-Butyl Ether	1634-04-4	88.15	2.4	UD	8.65		
Methylene Chloride	75-09-2	84.94	3.8	UD	13.2		
trans-1,2-Dichloroethene	156-60-5	96.94	3.8	UD	15.1		
1,1-Dichloroethane	75-34-3	98.96	2.6	UD	10.5		
Cyclohexane	110-82-7	84.16	4.4	UD	15.2		
2-Butanone	78-93-3	72.11	2.4	UD	7.08		
Carbon Tetrachloride	56-23-5	153.8	0.22	UD	1.38		
cis-1,2-Dichloroethene	156-59-2	96.94	1.8	UD	7.14		
Chloroform	67-66-3	119.4	1.7	UD	8.3		
1,1,1-Trichloroethane	71-55-6	133.4	0.19	UD	1.04		
2,2,4-Trimethylpentane	540-84-1	114.2	21.1	D	98.6		
Benzene	71-43-2	78.11	2.5	JD	7.99		
1,2-Dichloroethane	107-06-2	98.96	1.8	UD	7.29		
Trichloroethene	79-01-6	131.4	0.34	UD	1.83		
1,2-Dichloropropane	78-87-5	113	2.2	UD	10.2		
Bromodichloromethane	75-27-4	163.8	1.5	UD	10.0		
4-Methyl-2-Pentanone	108-10-1	100.2	1.9	UD	7.79		
Toluene	108-88-3	92.14	58.3	D	219		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : IA-B2-5-03312025DL

Analysis Date : 04/18/25

Laboratory Id Number : Q1726-04DL

Target Analyts : Air Results

t-1,3-Dichloropropene	10061-02-6	111	1.2	UD	5.45		
cis-1,3-Dichloropropene	10061-01-5	111	1.3	UD	5.9		
1,1,2-Trichloroethane	79-00-5	133.4	1.4	UD	7.64		
Dibromochloromethane	124-48-1	208.3	1.3	UD	11.1		
1,2-Dibromoethane	106-93-4	187.9	1.4	UD	10.8		
Tetrachloroethene	127-18-4	165.8	0.3	UD	2.03		
Chlorobenzene	108-90-7	112.6	1.5	UD	6.91		
Ethyl Benzene	100-41-4	106.2	12.3	D	53.4		
m/p-Xylene	179601-23-1	106.2	45.1	D	195		
o-Xylene	95-47-6	106.2	16.8	D	73.0		
Styrene	100-42-5	104.1	2.2	UD	9.37		
Bromoform	75-25-2	252.8	1.1	UD	11.4		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.22	UD	1.51		
2-Chlorotoluene	95-49-8	126.6	2.2	UD	11.4		
1,3,5-Trimethylbenzene	108-67-8	120.2	7.9	JD	38.8		
1,2,4-Trimethylbenzene	95-63-6	120.2	22.4	D	110		
1,3-Dichlorobenzene	541-73-1	147	1.6	UD	9.62		
1,4-Dichlorobenzene	106-46-7	147	1.1	UD	6.61		
1,2-Dichlorobenzene	95-50-1	147	1.5	UD	9.02		
1,2,4-Trichlorobenzene	120-82-1	181.5	1.7	UD	12.6		
Hexachloro-1,3-Butadiene	87-68-3	260.8	1.7	UD	18.1		
Naphthalene	91-20-3	128.17	1.5	UD	7.86		
1,3-Butadiene	106-99-0	54.09	2.6	UD	5.75		
4-Ethyltoluene	622-96-8	120.2	6	JD	29.5		
Hexane	110-54-3	86.17	2.2	UD	7.75		
Allyl Chloride	107-05-1	76.53	3	UD	9.39		
1,4-Dioxane	123-91-1	88.12	4.2	UD	15.1		
Methyl Methacrylate	80-62-6	100.117	1.7	UD	6.96		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : IA-B2-5-03312025DL2

Analysis Date : 04/18/25

Laboratory Id Number : Q1726-04DL2

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	8.4	UD	41.5		
Ethanol	64-17-5	46.07	240	D	452		
Chloromethane	74-87-3	50.49	3.9	UD	8.05		
Vinyl Chloride	75-01-4	62.5	0.56	UD	1.43		
Bromomethane	74-83-9	94.94	5.6	UD	21.7		
Chloroethane	75-00-3	64.52	6.8	UD	17.9		
Tetrahydrofuran	109-99-9	72.11	5.2	UD	15.3		
Trichlorofluoromethane	75-69-4	137.4	6.4	UD	36.0		
Dichlorotetrafluoroethane	76-14-2	170.9	3.5	UD	24.5		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	6.4	UD	49.0		
Bromoethene	593-60-2	106.9	4.8	UD	21.0		
tert-Butyl alcohol	75-65-0	74.12	7.6	UD	23.0		
Heptane	142-82-5	100.2	6.2	JD	25.4		
Isopropyl Alcohol	67-63-0	60.1	25.8	D	63.4		
1,1-Dichloroethene	75-35-4	96.94	5.6	UD	22.2		
Acetone	67-64-1	58.08	380	D	902		
Carbon Disulfide	75-15-0	76.14	6.4	UD	19.9		
Methyl tert-Butyl Ether	1634-04-4	88.15	4.8	UD	17.3		
Methylene Chloride	75-09-2	84.94	7.6	UD	26.4		
trans-1,2-Dichloroethene	156-60-5	96.94	7.6	UD	30.1		
1,1-Dichloroethane	75-34-3	98.96	5.2	UD	21.0		
Cyclohexane	110-82-7	84.16	8.8	UD	30.3		
2-Butanone	78-93-3	72.11	4.8	UD	14.2		
Carbon Tetrachloride	56-23-5	153.8	0.44	UD	2.77		
cis-1,2-Dichloroethene	156-59-2	96.94	3.6	UD	14.3		
Chloroform	67-66-3	119.4	3.3	UD	16.1		
1,1,1-Trichloroethane	71-55-6	133.4	0.38	UD	2.07		
2,2,4-Trimethylpentane	540-84-1	114.2	11.9	JD	55.6		
Benzene	71-43-2	78.11	3.5	UD	11.2		
1,2-Dichloroethane	107-06-2	98.96	3.6	UD	14.6		
Trichloroethene	79-01-6	131.4	0.68	UD	3.65		
1,2-Dichloropropane	78-87-5	113	4.4	UD	20.3		
Bromodichloromethane	75-27-4	163.8	3.1	UD	20.8		
4-Methyl-2-Pentanone	108-10-1	100.2	3.7	UD	15.2		
Toluene	108-88-3	92.14	35.5	D	133		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : IA-B2-5-03312025DL2

Analysis Date : 04/18/25

Laboratory Id Number : Q1726-04DL2

Target Analyts : Air Results

t-1,3-Dichloropropene	10061-02-6	111	2.4	UD	10.9		
cis-1,3-Dichloropropene	10061-01-5	111	2.6	UD	11.8		
1,1,2-Trichloroethane	79-00-5	133.4	2.8	UD	15.3		
Dibromochloromethane	124-48-1	208.3	2.6	UD	22.2		
1,2-Dibromoethane	106-93-4	187.9	2.9	UD	22.3		
Tetrachloroethene	127-18-4	165.8	0.6	UD	4.07		
Chlorobenzene	108-90-7	112.6	3	UD	13.8		
Ethyl Benzene	100-41-4	106.2	7.4	JD	32.1		
m/p-Xylene	179601-23-1	106.2	26.4	JD	114		
o-Xylene	95-47-6	106.2	10.2	JD	44.3		
Styrene	100-42-5	104.1	4.4	UD	18.7		
Bromoform	75-25-2	252.8	2.3	UD	23.8		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.44	UD	3.02		
2-Chlorotoluene	95-49-8	126.6	4.4	UD	22.8		
1,3,5-Trimethylbenzene	108-67-8	120.2	4.7	JD	23.1		
1,2,4-Trimethylbenzene	95-63-6	120.2	13.5	JD	66.4		
1,3-Dichlorobenzene	541-73-1	147	3.2	UD	19.2		
1,4-Dichlorobenzene	106-46-7	147	2.1	UD	12.6		
1,2-Dichlorobenzene	95-50-1	147	3	UD	18.0		
1,2,4-Trichlorobenzene	120-82-1	181.5	3.4	UD	25.2		
Hexachloro-1,3-Butadiene	87-68-3	260.8	3.4	UD	36.3		
Naphthalene	91-20-3	128.17	3	UD	15.7		
1,3-Butadiene	106-99-0	54.09	5.2	UD	11.5		
4-Ethyltoluene	622-96-8	120.2	4.8	UD	23.6		
Hexane	110-54-3	86.17	4.4	UD	15.5		
Allyl Chloride	107-05-1	76.53	6	UD	18.8		
1,4-Dioxane	123-91-1	88.12	8.4	UD	30.3		
Methyl Methacrylate	80-62-6	100.117	3.4	UD	13.9		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : IA-B2-1-03312025

Analysis Date : 04/17/25

Laboratory Id Number : Q1726-05

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	0.5		2.47		
Ethanol	64-17-5	46.07	280	E	527		
Chloromethane	74-87-3	50.49	0.65		1.34		
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	0.25	J	1.4		
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		
Bromoethene	593-60-2	106.9	0.12	U	0.52		
tert-Butyl alcohol	75-65-0	74.12	0.71		2.15		
Heptane	142-82-5	100.2	4.8		19.7		
Isopropyl Alcohol	67-63-0	60.1	36.7	E	90.2		
1,1-Dichloroethene	75-35-4	96.94	0.14	U	0.56		
Acetone	67-64-1	58.08	170	E	403		
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	2.6		9.03		
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	1.4		4.82		
2-Butanone	78-93-3	72.11	1.2		3.54		
Carbon Tetrachloride	56-23-5	153.8	0.09		0.57		
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	0.03		0.16		
2,2,4-Trimethylpentane	540-84-1	114.2	12.1		56.5		
Benzene	71-43-2	78.11	1.3		4.15		
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	0.09	U	0.37		
Toluene	108-88-3	92.14	30.8	E	116		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : IA-B2-1-03312025

Analysis Date : 04/17/25

Laboratory Id Number : Q1726-05

Target Analyts : Air Results

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		
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	0.2		1.36		
Chlorobenzene	108-90-7	112.6	0.08	U	0.37		
Ethyl Benzene	100-41-4	106.2	6.2		26.9		
m/p-Xylene	179601-23-1	106.2	21.6		93.8		
o-Xylene	95-47-6	106.2	8.4		36.5		
Styrene	100-42-5	104.1	0.38	J	1.62		
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	0.8		4.14		
1,3,5-Trimethylbenzene	108-67-8	120.2	3.4		16.7		
1,2,4-Trimethylbenzene	95-63-6	120.2	9.3		45.7		
1,3-Dichlorobenzene	541-73-1	147	0.08	U	0.48		
1,4-Dichlorobenzene	106-46-7	147	0.15	J	0.9		
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	0.36		1.89		
1,3-Butadiene	106-99-0	54.09	0.13	U	0.29		
4-Ethyltoluene	622-96-8	120.2	3.1		15.2		
Hexane	110-54-3	86.17	3.9		13.7		
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 : 04/01/25

Field Id Number : IA-B2-1-03312025DL

Analysis Date : 04/18/25

Laboratory Id Number : Q1726-05DL

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	4.2	UD	20.8		
Ethanol	64-17-5	46.07	360	ED	678		
Chloromethane	74-87-3	50.49	2	UD	4.13		
Vinyl Chloride	75-01-4	62.5	0.28	UD	0.72		
Bromomethane	74-83-9	94.94	2.8	UD	10.9		
Chloroethane	75-00-3	64.52	3.4	UD	8.97		
Tetrahydrofuran	109-99-9	72.11	2.6	UD	7.67		
Trichlorofluoromethane	75-69-4	137.4	3.2	UD	18.0		
Dichlorotetrafluoroethane	76-14-2	170.9	1.8	UD	12.6		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	3.2	UD	24.5		
Bromoethene	593-60-2	106.9	2.4	UD	10.5		
tert-Butyl alcohol	75-65-0	74.12	3.8	UD	11.5		
Heptane	142-82-5	100.2	5.6	JD	23.0		
Isopropyl Alcohol	67-63-0	60.1	47.1	D	115		
1,1-Dichloroethene	75-35-4	96.94	2.8	UD	11.1		
Acetone	67-64-1	58.08	760	ED	1805		
Carbon Disulfide	75-15-0	76.14	3.2	UD	9.97		
Methyl tert-Butyl Ether	1634-04-4	88.15	2.4	UD	8.65		
Methylene Chloride	75-09-2	84.94	3.8	UD	13.2		
trans-1,2-Dichloroethene	156-60-5	96.94	3.8	UD	15.1		
1,1-Dichloroethane	75-34-3	98.96	2.6	UD	10.5		
Cyclohexane	110-82-7	84.16	4.4	UD	15.2		
2-Butanone	78-93-3	72.11	2.4	UD	7.08		
Carbon Tetrachloride	56-23-5	153.8	0.22	UD	1.38		
cis-1,2-Dichloroethene	156-59-2	96.94	1.8	UD	7.14		
Chloroform	67-66-3	119.4	1.7	UD	8.3		
1,1,1-Trichloroethane	71-55-6	133.4	0.19	UD	1.04		
2,2,4-Trimethylpentane	540-84-1	114.2	12.5	D	58.4		
Benzene	71-43-2	78.11	1.7	UD	5.43		
1,2-Dichloroethane	107-06-2	98.96	1.8	UD	7.29		
Trichloroethene	79-01-6	131.4	0.34	UD	1.83		
1,2-Dichloropropane	78-87-5	113	2.2	UD	10.2		
Bromodichloromethane	75-27-4	163.8	1.5	UD	10.0		
4-Methyl-2-Pentanone	108-10-1	100.2	1.9	UD	7.79		
Toluene	108-88-3	92.14	34.9	D	131		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : IA-B2-1-03312025DL

Analysis Date : 04/18/25

Laboratory Id Number : Q1726-05DL

Target Analyts : Air Results

t-1,3-Dichloropropene	10061-02-6	111	1.2	UD	5.45		
cis-1,3-Dichloropropene	10061-01-5	111	1.3	UD	5.9		
1,1,2-Trichloroethane	79-00-5	133.4	1.4	UD	7.64		
Dibromochloromethane	124-48-1	208.3	1.3	UD	11.1		
1,2-Dibromoethane	106-93-4	187.9	1.4	UD	10.8		
Tetrachloroethene	127-18-4	165.8	0.3	UD	2.03		
Chlorobenzene	108-90-7	112.6	1.5	UD	6.91		
Ethyl Benzene	100-41-4	106.2	6.7	JD	29.1		
m/p-Xylene	179601-23-1	106.2	23.9	D	103		
o-Xylene	95-47-6	106.2	9.1	JD	39.5		
Styrene	100-42-5	104.1	2.2	UD	9.37		
Bromoform	75-25-2	252.8	1.1	UD	11.4		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.22	UD	1.51		
2-Chlorotoluene	95-49-8	126.6	2.2	UD	11.4		
1,3,5-Trimethylbenzene	108-67-8	120.2	4	JD	19.7		
1,2,4-Trimethylbenzene	95-63-6	120.2	9.9	JD	48.7		
1,3-Dichlorobenzene	541-73-1	147	1.6	UD	9.62		
1,4-Dichlorobenzene	106-46-7	147	1.1	UD	6.61		
1,2-Dichlorobenzene	95-50-1	147	1.5	UD	9.02		
1,2,4-Trichlorobenzene	120-82-1	181.5	1.7	UD	12.6		
Hexachloro-1,3-Butadiene	87-68-3	260.8	1.7	UD	18.1		
Naphthalene	91-20-3	128.17	1.5	UD	7.86		
1,3-Butadiene	106-99-0	54.09	2.6	UD	5.75		
4-Ethyltoluene	622-96-8	120.2	3.4	JD	16.7		
Hexane	110-54-3	86.17	2.2	UD	7.75		
Allyl Chloride	107-05-1	76.53	3	UD	9.39		
1,4-Dioxane	123-91-1	88.12	4.2	UD	15.1		
Methyl Methacrylate	80-62-6	100.117	1.7	UD	6.96		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : IA-B2-1-03312025DL2

Analysis Date : 04/18/25

Laboratory Id Number : Q1726-05DL2

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	21	UD	103		
Ethanol	64-17-5	46.07	200	D	376		
Chloromethane	74-87-3	50.49	9.8	UD	20.2		
Vinyl Chloride	75-01-4	62.5	1.4	UD	3.58		
Bromomethane	74-83-9	94.94	14	UD	54.4		
Chloroethane	75-00-3	64.52	17	UD	44.9		
Tetrahydrofuran	109-99-9	72.11	13	UD	38.3		
Trichlorofluoromethane	75-69-4	137.4	16	UD	89.9		
Dichlorotetrafluoroethane	76-14-2	170.9	8.8	UD	61.5		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	16	UD	122		
Bromoethene	593-60-2	106.9	12	UD	52.5		
tert-Butyl alcohol	75-65-0	74.12	19	UD	57.6		
Heptane	142-82-5	100.2	11	UD	45.1		
Isopropyl Alcohol	67-63-0	60.1	29.5	JD	72.5		
1,1-Dichloroethene	75-35-4	96.94	14	UD	55.5		
Acetone	67-64-1	58.08	510	D	1211		
Carbon Disulfide	75-15-0	76.14	16	UD	49.8		
Methyl tert-Butyl Ether	1634-04-4	88.15	12	UD	43.3		
Methylene Chloride	75-09-2	84.94	19	UD	66.0		
trans-1,2-Dichloroethene	156-60-5	96.94	19	UD	75.3		
1,1-Dichloroethane	75-34-3	98.96	13	UD	52.6		
Cyclohexane	110-82-7	84.16	22	UD	75.7		
2-Butanone	78-93-3	72.11	12	UD	35.4		
Carbon Tetrachloride	56-23-5	153.8	1.1	UD	6.92		
cis-1,2-Dichloroethene	156-59-2	96.94	8.9	UD	35.3		
Chloroform	67-66-3	119.4	8.3	UD	40.5		
1,1,1-Trichloroethane	71-55-6	133.4	0.95	UD	5.18		
2,2,4-Trimethylpentane	540-84-1	114.2	10	UD	46.7		
Benzene	71-43-2	78.11	8.7	UD	27.8		
1,2-Dichloroethane	107-06-2	98.96	9.1	UD	36.8		
Trichloroethene	79-01-6	131.4	1.7	UD	9.14		
1,2-Dichloropropane	78-87-5	113	11	UD	50.8		
Bromodichloromethane	75-27-4	163.8	7.7	UD	51.6		
4-Methyl-2-Pentanone	108-10-1	100.2	9.3	UD	38.1		
Toluene	108-88-3	92.14	19.4	JD	73.1		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : IA-B2-1-03312025DL2

Analysis Date : 04/18/25

Laboratory Id Number : Q1726-05DL2

Target Analyts : Air Results

t-1,3-Dichloropropene	10061-02-6	111	6	UD	27.2		
cis-1,3-Dichloropropene	10061-01-5	111	6.4	UD	29.1		
1,1,2-Trichloroethane	79-00-5	133.4	7.1	UD	38.7		
Dibromochloromethane	124-48-1	208.3	6.6	UD	56.2		
1,2-Dibromoethane	106-93-4	187.9	7.2	UD	55.3		
Tetrachloroethene	127-18-4	165.8	1.5	UD	10.2		
Chlorobenzene	108-90-7	112.6	7.6	UD	35		
Ethyl Benzene	100-41-4	106.2	12	UD	52.1		
m/p-Xylene	179601-23-1	106.2	21	UD	91.2		
o-Xylene	95-47-6	106.2	12	UD	52.1		
Styrene	100-42-5	104.1	11	UD	46.8		
Bromoform	75-25-2	252.8	5.7	UD	58.9		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	1.1	UD	7.55		
2-Chlorotoluene	95-49-8	126.6	11	UD	57.0		
1,3,5-Trimethylbenzene	108-67-8	120.2	11	UD	54.1		
1,2,4-Trimethylbenzene	95-63-6	120.2	7.8	UD	38.4		
1,3-Dichlorobenzene	541-73-1	147	8	UD	48.1		
1,4-Dichlorobenzene	106-46-7	147	5.3	UD	31.9		
1,2-Dichlorobenzene	95-50-1	147	7.5	UD	45.1		
1,2,4-Trichlorobenzene	120-82-1	181.5	8.5	UD	63.1		
Hexachloro-1,3-Butadiene	87-68-3	260.8	8.5	UD	90.7		
Naphthalene	91-20-3	128.17	7.5	UD	39.3		
1,3-Butadiene	106-99-0	54.09	13	UD	28.8		
4-Ethyltoluene	622-96-8	120.2	12	UD	59.0		
Hexane	110-54-3	86.17	11	UD	38.8		
Allyl Chloride	107-05-1	76.53	15	UD	47.0		
1,4-Dioxane	123-91-1	88.12	21	UD	75.7		
Methyl Methacrylate	80-62-6	100.117	8.6	UD	35.2		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : IA-B2-3-03312025

Analysis Date : 04/17/25

Laboratory Id Number : Q1726-06

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		
Ethanol	64-17-5	46.07	310	E	584		
Chloromethane	74-87-3	50.49	1.2		2.48		
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	0.36	J	1.06		
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		
Bromoethene	593-60-2	106.9	0.12	U	0.52		
tert-Butyl alcohol	75-65-0	74.12	0.69		2.09		
Heptane	142-82-5	100.2	3.4		13.9		
Isopropyl Alcohol	67-63-0	60.1	34.5	E	84.8		
1,1-Dichloroethene	75-35-4	96.94	0.14	U	0.56		
Acetone	67-64-1	58.08	170	E	403		
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	3.2		11.1		
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	1.1		3.79		
2-Butanone	78-93-3	72.11	2.1		6.19		
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	0.15	J	0.73		
1,1,1-Trichloroethane	71-55-6	133.4	0.01	U	0.05		
2,2,4-Trimethylpentane	540-84-1	114.2	9.4		43.9		
Benzene	71-43-2	78.11	1.1		3.51		
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	0.09	U	0.37		
Toluene	108-88-3	92.14	22.3	E	84.0		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : IA-B2-3-03312025

Analysis Date : 04/17/25

Laboratory Id Number : Q1726-06

Target Analyts : Air Results

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		
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	0.14		0.95		
Chlorobenzene	108-90-7	112.6	0.08	U	0.37		
Ethyl Benzene	100-41-4	106.2	4.3		18.7		
m/p-Xylene	179601-23-1	106.2	14.9		64.7		
o-Xylene	95-47-6	106.2	5.8		25.2		
Styrene	100-42-5	104.1	0.39	J	1.66		
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	0.84		4.35		
1,3,5-Trimethylbenzene	108-67-8	120.2	2.6		12.8		
1,2,4-Trimethylbenzene	95-63-6	120.2	7.2		35.4		
1,3-Dichlorobenzene	541-73-1	147	0.08	U	0.48		
1,4-Dichlorobenzene	106-46-7	147	0.2	J	1.2		
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	0.45		2.36		
1,3-Butadiene	106-99-0	54.09	0.13	U	0.29		
4-Ethyltoluene	622-96-8	120.2	2.1		10.3		
Hexane	110-54-3	86.17	3.5		12.3		
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 : 04/01/25

Field Id Number : IA-B2-3-03312025DL

Analysis Date : 04/18/25

Laboratory Id Number : Q1726-06DL

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	4.2	UD	20.8		
Ethanol	64-17-5	46.07	370	ED	697		
Chloromethane	74-87-3	50.49	2	UD	4.13		
Vinyl Chloride	75-01-4	62.5	0.28	UD	0.72		
Bromomethane	74-83-9	94.94	2.8	UD	10.9		
Chloroethane	75-00-3	64.52	3.4	UD	8.97		
Tetrahydrofuran	109-99-9	72.11	2.6	UD	7.67		
Trichlorofluoromethane	75-69-4	137.4	3.2	UD	18.0		
Dichlorotetrafluoroethane	76-14-2	170.9	1.8	UD	12.6		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	3.2	UD	24.5		
Bromoethene	593-60-2	106.9	2.4	UD	10.5		
tert-Butyl alcohol	75-65-0	74.12	3.8	UD	11.5		
Heptane	142-82-5	100.2	3.9	JD	16.0		
Isopropyl Alcohol	67-63-0	60.1	45	D	110		
1,1-Dichloroethene	75-35-4	96.94	2.8	UD	11.1		
Acetone	67-64-1	58.08	670	ED	1591		
Carbon Disulfide	75-15-0	76.14	3.2	UD	9.97		
Methyl tert-Butyl Ether	1634-04-4	88.15	2.4	UD	8.65		
Methylene Chloride	75-09-2	84.94	3.8	UD	13.2		
trans-1,2-Dichloroethene	156-60-5	96.94	3.8	UD	15.1		
1,1-Dichloroethane	75-34-3	98.96	2.6	UD	10.5		
Cyclohexane	110-82-7	84.16	4.4	UD	15.2		
2-Butanone	78-93-3	72.11	3.2	JD	9.44		
Carbon Tetrachloride	56-23-5	153.8	0.22	UD	1.38		
cis-1,2-Dichloroethene	156-59-2	96.94	1.8	UD	7.14		
Chloroform	67-66-3	119.4	1.7	UD	8.3		
1,1,1-Trichloroethane	71-55-6	133.4	0.19	UD	1.04		
2,2,4-Trimethylpentane	540-84-1	114.2	9.9	JD	46.2		
Benzene	71-43-2	78.11	1.7	UD	5.43		
1,2-Dichloroethane	107-06-2	98.96	1.8	UD	7.29		
Trichloroethene	79-01-6	131.4	0.34	UD	1.83		
1,2-Dichloropropane	78-87-5	113	2.2	UD	10.2		
Bromodichloromethane	75-27-4	163.8	1.5	UD	10.0		
4-Methyl-2-Pentanone	108-10-1	100.2	1.9	UD	7.79		
Toluene	108-88-3	92.14	23.3	D	87.8		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : IA-B2-3-03312025DL

Analysis Date : 04/18/25

Laboratory Id Number : Q1726-06DL

Target Analyts : Air Results

t-1,3-Dichloropropene	10061-02-6	111	1.2	UD	5.45		
cis-1,3-Dichloropropene	10061-01-5	111	1.3	UD	5.9		
1,1,2-Trichloroethane	79-00-5	133.4	1.4	UD	7.64		
Dibromochloromethane	124-48-1	208.3	1.3	UD	11.1		
1,2-Dibromoethane	106-93-4	187.9	1.4	UD	10.8		
Tetrachloroethene	127-18-4	165.8	0.3	UD	2.03		
Chlorobenzene	108-90-7	112.6	1.5	UD	6.91		
Ethyl Benzene	100-41-4	106.2	4.4	JD	19.1		
m/p-Xylene	179601-23-1	106.2	15.7	JD	68.2		
o-Xylene	95-47-6	106.2	6	JD	26.1		
Styrene	100-42-5	104.1	2.2	UD	9.37		
Bromoform	75-25-2	252.8	1.1	UD	11.4		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.22	UD	1.51		
2-Chlorotoluene	95-49-8	126.6	2.2	UD	11.4		
1,3,5-Trimethylbenzene	108-67-8	120.2	2.7	JD	13.3		
1,2,4-Trimethylbenzene	95-63-6	120.2	7.6	JD	37.4		
1,3-Dichlorobenzene	541-73-1	147	1.6	UD	9.62		
1,4-Dichlorobenzene	106-46-7	147	1.1	UD	6.61		
1,2-Dichlorobenzene	95-50-1	147	1.5	UD	9.02		
1,2,4-Trichlorobenzene	120-82-1	181.5	1.7	UD	12.6		
Hexachloro-1,3-Butadiene	87-68-3	260.8	1.7	UD	18.1		
Naphthalene	91-20-3	128.17	1.5	UD	7.86		
1,3-Butadiene	106-99-0	54.09	2.6	UD	5.75		
4-Ethyltoluene	622-96-8	120.2	2.4	UD	11.8		
Hexane	110-54-3	86.17	2.2	UD	7.75		
Allyl Chloride	107-05-1	76.53	3	UD	9.39		
1,4-Dioxane	123-91-1	88.12	4.2	UD	15.1		
Methyl Methacrylate	80-62-6	100.117	1.7	UD	6.96		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : IA-B2-3-03312025DL2

Analysis Date : 04/18/25

Laboratory Id Number : Q1726-06DL2

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	21	UD	103		
Ethanol	64-17-5	46.07	290	D	546		
Chloromethane	74-87-3	50.49	9.8	UD	20.2		
Vinyl Chloride	75-01-4	62.5	1.4	UD	3.58		
Bromomethane	74-83-9	94.94	14	UD	54.4		
Chloroethane	75-00-3	64.52	17	UD	44.9		
Tetrahydrofuran	109-99-9	72.11	13	UD	38.3		
Trichlorofluoromethane	75-69-4	137.4	16	UD	89.9		
Dichlorotetrafluoroethane	76-14-2	170.9	8.8	UD	61.5		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	16	UD	122		
Bromoethene	593-60-2	106.9	12	UD	52.5		
tert-Butyl alcohol	75-65-0	74.12	19	UD	57.6		
Heptane	142-82-5	100.2	11	UD	45.1		
Isopropyl Alcohol	67-63-0	60.1	35.1	JD	86.3		
1,1-Dichloroethene	75-35-4	96.94	14	UD	55.5		
Acetone	67-64-1	58.08	520	D	1235		
Carbon Disulfide	75-15-0	76.14	16	UD	49.8		
Methyl tert-Butyl Ether	1634-04-4	88.15	12	UD	43.3		
Methylene Chloride	75-09-2	84.94	19	UD	66.0		
trans-1,2-Dichloroethene	156-60-5	96.94	19	UD	75.3		
1,1-Dichloroethane	75-34-3	98.96	13	UD	52.6		
Cyclohexane	110-82-7	84.16	22	UD	75.7		
2-Butanone	78-93-3	72.11	12	UD	35.4		
Carbon Tetrachloride	56-23-5	153.8	1.1	UD	6.92		
cis-1,2-Dichloroethene	156-59-2	96.94	8.9	UD	35.3		
Chloroform	67-66-3	119.4	8.3	UD	40.5		
1,1,1-Trichloroethane	71-55-6	133.4	0.95	UD	5.18		
2,2,4-Trimethylpentane	540-84-1	114.2	10	UD	46.7		
Benzene	71-43-2	78.11	8.7	UD	27.8		
1,2-Dichloroethane	107-06-2	98.96	9.1	UD	36.8		
Trichloroethene	79-01-6	131.4	1.7	UD	9.14		
1,2-Dichloropropane	78-87-5	113	11	UD	50.8		
Bromodichloromethane	75-27-4	163.8	7.7	UD	51.6		
4-Methyl-2-Pentanone	108-10-1	100.2	9.3	UD	38.1		
Toluene	108-88-3	92.14	14.1	JD	53.1		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : IA-B2-3-03312025DL2

Analysis Date : 04/18/25

Laboratory Id Number : Q1726-06DL2

Target Analyts : Air Results

t-1,3-Dichloropropene	10061-02-6	111	6	UD	27.2		
cis-1,3-Dichloropropene	10061-01-5	111	6.4	UD	29.1		
1,1,2-Trichloroethane	79-00-5	133.4	7.1	UD	38.7		
Dibromochloromethane	124-48-1	208.3	6.6	UD	56.2		
1,2-Dibromoethane	106-93-4	187.9	7.2	UD	55.3		
Tetrachloroethene	127-18-4	165.8	1.5	UD	10.2		
Chlorobenzene	108-90-7	112.6	7.6	UD	35		
Ethyl Benzene	100-41-4	106.2	12	UD	52.1		
m/p-Xylene	179601-23-1	106.2	21	UD	91.2		
o-Xylene	95-47-6	106.2	12	UD	52.1		
Styrene	100-42-5	104.1	11	UD	46.8		
Bromoform	75-25-2	252.8	5.7	UD	58.9		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	1.1	UD	7.55		
2-Chlorotoluene	95-49-8	126.6	11	UD	57.0		
1,3,5-Trimethylbenzene	108-67-8	120.2	11	UD	54.1		
1,2,4-Trimethylbenzene	95-63-6	120.2	7.8	UD	38.4		
1,3-Dichlorobenzene	541-73-1	147	8	UD	48.1		
1,4-Dichlorobenzene	106-46-7	147	5.3	UD	31.9		
1,2-Dichlorobenzene	95-50-1	147	7.5	UD	45.1		
1,2,4-Trichlorobenzene	120-82-1	181.5	8.5	UD	63.1		
Hexachloro-1,3-Butadiene	87-68-3	260.8	8.5	UD	90.7		
Naphthalene	91-20-3	128.17	7.5	UD	39.3		
1,3-Butadiene	106-99-0	54.09	13	UD	28.8		
4-Ethyltoluene	622-96-8	120.2	12	UD	59.0		
Hexane	110-54-3	86.17	11	UD	38.8		
Allyl Chloride	107-05-1	76.53	15	UD	47.0		
1,4-Dioxane	123-91-1	88.12	21	UD	75.7		
Methyl Methacrylate	80-62-6	100.117	8.6	UD	35.2		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : IA-B2-4-03312025

Analysis Date : 04/17/25

Laboratory Id Number : Q1726-07

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	0.51		2.52		
Ethanol	64-17-5	46.07	320	E	602		
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	0.27	J	1.52		
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		
Bromoethene	593-60-2	106.9	0.12	U	0.52		
tert-Butyl alcohol	75-65-0	74.12	0.74		2.24		
Heptane	142-82-5	100.2	4.2		17.2		
Isopropyl Alcohol	67-63-0	60.1	34.3	E	84.3		
1,1-Dichloroethene	75-35-4	96.94	0.14	U	0.56		
Acetone	67-64-1	58.08	170	E	403		
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	2.7		9.38		
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	1.3		4.47		
2-Butanone	78-93-3	72.11	1.2		3.54		
Carbon Tetrachloride	56-23-5	153.8	0.09		0.57		
cis-1,2-Dichloroethene	156-59-2	96.94	0.09	U	0.36		
Chloroform	67-66-3	119.4	0.11	J	0.54		
1,1,1-Trichloroethane	71-55-6	133.4	0.01	U	0.05		
2,2,4-Trimethylpentane	540-84-1	114.2	10.6		49.5		
Benzene	71-43-2	78.11	1.1		3.51		
1,2-Dichloroethane	107-06-2	98.96	0.21	J	0.85		
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	0.42	J	1.72		
Toluene	108-88-3	92.14	26.5	E	99.9		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : IA-B2-4-03312025

Analysis Date : 04/17/25

Laboratory Id Number : Q1726-07

Target Analyts : Air Results

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		
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	0.13		0.88		
Chlorobenzene	108-90-7	112.6	0.08	U	0.37		
Ethyl Benzene	100-41-4	106.2	5.1		22.2		
m/p-Xylene	179601-23-1	106.2	17.5		76.0		
o-Xylene	95-47-6	106.2	6.9		30.0		
Styrene	100-42-5	104.1	0.37	J	1.58		
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	1.4		7.25		
1,3,5-Trimethylbenzene	108-67-8	120.2	3.3		16.2		
1,2,4-Trimethylbenzene	95-63-6	120.2	9		44.2		
1,3-Dichlorobenzene	541-73-1	147	0.08	U	0.48		
1,4-Dichlorobenzene	106-46-7	147	0.36	J	2.16		
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	0.58		3.04		
1,3-Butadiene	106-99-0	54.09	0.13	U	0.29		
4-Ethyltoluene	622-96-8	120.2	2.7		13.3		
Hexane	110-54-3	86.17	3.8		13.4		
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 : 04/01/25

Field Id Number : IA-B2-4-03312025DL

Analysis Date : 04/17/25

Laboratory Id Number : Q1726-07DL

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	4.2	UD	20.8		
Ethanol	64-17-5	46.07	380	ED	716		
Chloromethane	74-87-3	50.49	2	UD	4.13		
Vinyl Chloride	75-01-4	62.5	0.28	UD	0.72		
Bromomethane	74-83-9	94.94	2.8	UD	10.9		
Chloroethane	75-00-3	64.52	3.4	UD	8.97		
Tetrahydrofuran	109-99-9	72.11	2.6	UD	7.67		
Trichlorofluoromethane	75-69-4	137.4	3.2	UD	18.0		
Dichlorotetrafluoroethane	76-14-2	170.9	1.8	UD	12.6		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	3.2	UD	24.5		
Bromoethene	593-60-2	106.9	2.4	UD	10.5		
tert-Butyl alcohol	75-65-0	74.12	3.8	UD	11.5		
Heptane	142-82-5	100.2	5.1	JD	20.9		
Isopropyl Alcohol	67-63-0	60.1	37.9	D	93.2		
1,1-Dichloroethene	75-35-4	96.94	2.8	UD	11.1		
Acetone	67-64-1	58.08	590	ED	1401		
Carbon Disulfide	75-15-0	76.14	3.2	UD	9.97		
Methyl tert-Butyl Ether	1634-04-4	88.15	2.4	UD	8.65		
Methylene Chloride	75-09-2	84.94	3.8	UD	13.2		
trans-1,2-Dichloroethene	156-60-5	96.94	3.8	UD	15.1		
1,1-Dichloroethane	75-34-3	98.96	2.6	UD	10.5		
Cyclohexane	110-82-7	84.16	4.4	UD	15.2		
2-Butanone	78-93-3	72.11	2.4	UD	7.08		
Carbon Tetrachloride	56-23-5	153.8	0.22	UD	1.38		
cis-1,2-Dichloroethene	156-59-2	96.94	1.8	UD	7.14		
Chloroform	67-66-3	119.4	1.7	UD	8.3		
1,1,1-Trichloroethane	71-55-6	133.4	0.19	UD	1.04		
2,2,4-Trimethylpentane	540-84-1	114.2	10.9	D	50.9		
Benzene	71-43-2	78.11	1.7	UD	5.43		
1,2-Dichloroethane	107-06-2	98.96	1.8	UD	7.29		
Trichloroethene	79-01-6	131.4	0.34	UD	1.83		
1,2-Dichloropropane	78-87-5	113	2.2	UD	10.2		
Bromodichloromethane	75-27-4	163.8	1.5	UD	10.0		
4-Methyl-2-Pentanone	108-10-1	100.2	1.9	UD	7.79		
Toluene	108-88-3	92.14	27.3	D	102		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : IA-B2-4-03312025DL

Analysis Date : 04/17/25

Laboratory Id Number : Q1726-07DL

Target Analyts : Air Results

t-1,3-Dichloropropene	10061-02-6	111	1.2	UD	5.45		
cis-1,3-Dichloropropene	10061-01-5	111	1.3	UD	5.9		
1,1,2-Trichloroethane	79-00-5	133.4	1.4	UD	7.64		
Dibromochloromethane	124-48-1	208.3	1.3	UD	11.1		
1,2-Dibromoethane	106-93-4	187.9	1.4	UD	10.8		
Tetrachloroethene	127-18-4	165.8	0.3	UD	2.03		
Chlorobenzene	108-90-7	112.6	1.5	UD	6.91		
Ethyl Benzene	100-41-4	106.2	5.1	JD	22.2		
m/p-Xylene	179601-23-1	106.2	17.7	JD	76.9		
o-Xylene	95-47-6	106.2	6.8	JD	29.5		
Styrene	100-42-5	104.1	2.2	UD	9.37		
Bromoform	75-25-2	252.8	1.1	UD	11.4		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.22	UD	1.51		
2-Chlorotoluene	95-49-8	126.6	2.2	UD	11.4		
1,3,5-Trimethylbenzene	108-67-8	120.2	3.6	JD	17.7		
1,2,4-Trimethylbenzene	95-63-6	120.2	9.4	JD	46.2		
1,3-Dichlorobenzene	541-73-1	147	1.6	UD	9.62		
1,4-Dichlorobenzene	106-46-7	147	1.1	UD	6.61		
1,2-Dichlorobenzene	95-50-1	147	1.5	UD	9.02		
1,2,4-Trichlorobenzene	120-82-1	181.5	1.7	UD	12.6		
Hexachloro-1,3-Butadiene	87-68-3	260.8	1.7	UD	18.1		
Naphthalene	91-20-3	128.17	1.5	UD	7.86		
1,3-Butadiene	106-99-0	54.09	2.6	UD	5.75		
4-Ethyltoluene	622-96-8	120.2	2.6	JD	12.8		
Hexane	110-54-3	86.17	2.2	UD	7.75		
Allyl Chloride	107-05-1	76.53	3	UD	9.39		
1,4-Dioxane	123-91-1	88.12	4.2	UD	15.1		
Methyl Methacrylate	80-62-6	100.117	1.7	UD	6.96		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : IA-B2-4-03312025DL2

Analysis Date : 04/18/25

Laboratory Id Number : Q1726-07DL2

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	8.4	UD	41.5		
Ethanol	64-17-5	46.07	270	D	508		
Chloromethane	74-87-3	50.49	3.9	UD	8.05		
Vinyl Chloride	75-01-4	62.5	0.56	UD	1.43		
Bromomethane	74-83-9	94.94	5.6	UD	21.7		
Chloroethane	75-00-3	64.52	6.8	UD	17.9		
Tetrahydrofuran	109-99-9	72.11	5.2	UD	15.3		
Trichlorofluoromethane	75-69-4	137.4	6.4	UD	36.0		
Dichlorotetrafluoroethane	76-14-2	170.9	3.5	UD	24.5		
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	6.4	UD	49.0		
Bromoethene	593-60-2	106.9	4.8	UD	21.0		
tert-Butyl alcohol	75-65-0	74.12	7.6	UD	23.0		
Heptane	142-82-5	100.2	4.4	UD	18.0		
Isopropyl Alcohol	67-63-0	60.1	29.6	D	72.8		
1,1-Dichloroethene	75-35-4	96.94	5.6	UD	22.2		
Acetone	67-64-1	58.08	470	D	1116		
Carbon Disulfide	75-15-0	76.14	6.4	UD	19.9		
Methyl tert-Butyl Ether	1634-04-4	88.15	4.8	UD	17.3		
Methylene Chloride	75-09-2	84.94	7.6	UD	26.4		
trans-1,2-Dichloroethene	156-60-5	96.94	7.6	UD	30.1		
1,1-Dichloroethane	75-34-3	98.96	5.2	UD	21.0		
Cyclohexane	110-82-7	84.16	8.8	UD	30.3		
2-Butanone	78-93-3	72.11	4.8	UD	14.2		
Carbon Tetrachloride	56-23-5	153.8	0.44	UD	2.77		
cis-1,2-Dichloroethene	156-59-2	96.94	3.6	UD	14.3		
Chloroform	67-66-3	119.4	3.3	UD	16.1		
1,1,1-Trichloroethane	71-55-6	133.4	0.38	UD	2.07		
2,2,4-Trimethylpentane	540-84-1	114.2	7.2	JD	33.6		
Benzene	71-43-2	78.11	3.5	UD	11.2		
1,2-Dichloroethane	107-06-2	98.96	3.6	UD	14.6		
Trichloroethene	79-01-6	131.4	0.68	UD	3.65		
1,2-Dichloropropane	78-87-5	113	4.4	UD	20.3		
Bromodichloromethane	75-27-4	163.8	3.1	UD	20.8		
4-Methyl-2-Pentanone	108-10-1	100.2	3.7	UD	15.2		
Toluene	108-88-3	92.14	18.3	JD	69.0		

Project : US EPA Riverside Industrial Park Superfund Site

Sampling Date : 04/01/25

Field Id Number : IA-B2-4-03312025DL2

Analysis Date : 04/18/25

Laboratory Id Number : Q1726-07DL2

Target Analyts : Air Results

t-1,3-Dichloropropene	10061-02-6	111	2.4	UD	10.9		
cis-1,3-Dichloropropene	10061-01-5	111	2.6	UD	11.8		
1,1,2-Trichloroethane	79-00-5	133.4	2.8	UD	15.3		
Dibromochloromethane	124-48-1	208.3	2.6	UD	22.2		
1,2-Dibromoethane	106-93-4	187.9	2.9	UD	22.3		
Tetrachloroethene	127-18-4	165.8	0.6	UD	4.07		
Chlorobenzene	108-90-7	112.6	3	UD	13.8		
Ethyl Benzene	100-41-4	106.2	4.8	UD	20.8		
m/p-Xylene	179601-23-1	106.2	12.2	JD	53.0		
o-Xylene	95-47-6	106.2	4.8	UD	20.8		
Styrene	100-42-5	104.1	4.4	UD	18.7		
Bromoform	75-25-2	252.8	2.3	UD	23.8		
1,1,2,2-Tetrachloroethane	79-34-5	167.9	0.44	UD	3.02		
2-Chlorotoluene	95-49-8	126.6	4.4	UD	22.8		
1,3,5-Trimethylbenzene	108-67-8	120.2	4.4	UD	21.6		
1,2,4-Trimethylbenzene	95-63-6	120.2	3.1	UD	15.2		
1,3-Dichlorobenzene	541-73-1	147	3.2	UD	19.2		
1,4-Dichlorobenzene	106-46-7	147	2.1	UD	12.6		
1,2-Dichlorobenzene	95-50-1	147	3	UD	18.0		
1,2,4-Trichlorobenzene	120-82-1	181.5	3.4	UD	25.2		
Hexachloro-1,3-Butadiene	87-68-3	260.8	3.4	UD	36.3		
Naphthalene	91-20-3	128.17	3	UD	15.7		
1,3-Butadiene	106-99-0	54.09	5.2	UD	11.5		
4-Ethyltoluene	622-96-8	120.2	4.8	UD	23.6		
Hexane	110-54-3	86.17	4.4	UD	15.5		
Allyl Chloride	107-05-1	76.53	6	UD	18.8		
1,4-Dioxane	123-91-1	88.12	8.4	UD	30.3		
Methyl Methacrylate	80-62-6	100.117	3.4	UD	13.9		

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	Concentration1 2	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.: **Q1726**

Client: **Woodard & Curran**

Analytical Method: **SWTO-15**

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q1726-01	IA-DUP-3-03312025	1-Bromo-4-Fluorobenzene	10	10.1	101	70 (65)	130 (135)
Q1726-01DL	IA-DUP-3-03312025DL	1-Bromo-4-Fluorobenzene	10	10.1	101	70 (65)	130 (135)
Q1726-01DL2	IA-DUP-3-03312025DL2	1-Bromo-4-Fluorobenzene	10	9.92	99	70 (65)	130 (135)
Q1726-02	IA-B2-6-03312025	1-Bromo-4-Fluorobenzene	10	10.1	101	70 (65)	130 (135)
Q1726-02DL	IA-B2-6-03312025DL	1-Bromo-4-Fluorobenzene	10	10.4	104	70 (65)	130 (135)
Q1726-02DL2	IA-B2-6-03312025DL2	1-Bromo-4-Fluorobenzene	10	9.89	99	70 (65)	130 (135)
Q1726-03	IA-B2-2-03312025	1-Bromo-4-Fluorobenzene	10	9.94	99	70 (65)	130 (135)
Q1726-03DL	IA-B2-2-03312025DL	1-Bromo-4-Fluorobenzene	10	10.3	103	70 (65)	130 (135)
Q1726-03DL2	IA-B2-2-03312025DL2	1-Bromo-4-Fluorobenzene	10	9.99	100	70 (65)	130 (135)
Q1726-04	IA-B2-5-03312025	1-Bromo-4-Fluorobenzene	10	9.85	98	70 (65)	130 (135)
Q1726-04DL	IA-B2-5-03312025DL	1-Bromo-4-Fluorobenzene	10	10.3	103	70 (65)	130 (135)
Q1726-04DL2	IA-B2-5-03312025DL2	1-Bromo-4-Fluorobenzene	10	9.88	99	70 (65)	130 (135)
Q1726-05	IA-B2-1-03312025	1-Bromo-4-Fluorobenzene	10	9.97	100	70 (65)	130 (135)
Q1726-05DL	IA-B2-1-03312025DL	1-Bromo-4-Fluorobenzene	10	10.4	104	70 (65)	130 (135)
Q1726-05DL2	IA-B2-1-03312025DL2	1-Bromo-4-Fluorobenzene	10	10.2	102	70 (65)	130 (135)
Q1726-06	IA-B2-3-03312025	1-Bromo-4-Fluorobenzene	10	10.2	102	70 (65)	130 (135)
Q1726-06DL	IA-B2-3-03312025DL	1-Bromo-4-Fluorobenzene	10	10.3	103	70 (65)	130 (135)
Q1726-06DL2	IA-B2-3-03312025DL2	1-Bromo-4-Fluorobenzene	10	10.0	100	70 (65)	130 (135)
Q1726-06DL2D	IA-B2-3-03312025DL2DUP	1-Bromo-4-Fluorobenzene	10	10.2	102	70 (65)	130 (135)
Q1726-07	IA-B2-4-03312025	1-Bromo-4-Fluorobenzene	10	10.1	101	70 (65)	130 (135)
Q1726-07DL	IA-B2-4-03312025DL	1-Bromo-4-Fluorobenzene	10	10.1	101	70 (65)	130 (135)
Q1726-07DL2	IA-B2-4-03312025DL2	1-Bromo-4-Fluorobenzene	10	9.86	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)
VL0418ABL01	VL0418ABL01	1-Bromo-4-Fluorobenzene	10	9.79	98	70 (65)	130 (135)
VL0418ABS01	VL0418ABS01	1-Bromo-4-Fluorobenzene	10	10.0	100	70 (65)	130 (135)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q1726</u>	Analytical Method:	<u>SWTO-15</u>
Client:	<u>Woodard & Curran</u>	Datafile :	<u>VL042358.D</u>

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)	
	Ethanol	10	3.20	ppbv	32		*	70 (70)	130 (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)	
	Bromoethene	10	9.80	ppbv	98			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)	
	Isopropyl Alcohol	10	9.40	ppbv	94			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)	

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q1726</u>	Analytical Method:	<u>SWTO-15</u>
Client:	<u>Woodard & Curran</u>	Datafile :	<u>VL042358.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VL0417ABS01	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)	
	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)	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	Q1726	Analytical Method:	SWTO-15
Client:	Woodard & Curran	Datafile :	VL042385.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VL0418ABS01	Dichlorodifluoromethane	10	9.30	ppbv	93			40 (70)	160 (130)	
	Ethanol	10	2.30	ppbv	23		*	70 (70)	130 (130)	
	Chloromethane	10	8.60	ppbv	86			40 (70)	160 (130)	
	Vinyl Chloride	10	7.60	ppbv	76			70 (70)	130 (130)	
	Bromomethane	10	8.50	ppbv	85			40 (70)	160 (130)	
	Chloroethane	10	8.30	ppbv	83			40 (70)	160 (130)	
	Tetrahydrofuran	10	6.90	ppbv	69		*	70 (70)	130 (130)	
	Trichlorofluoromethane	10	9.50	ppbv	95			40 (70)	160 (130)	
	1,1,2-Trichlorotrifluoroethane	10	8.90	ppbv	89			70 (70)	130 (130)	
	Dichlorotetrafluoroethane	10	9.10	ppbv	91			70 (70)	130 (130)	
	Bromoethene	10	9.10	ppbv	91			70 (70)	130 (130)	
	tert-Butyl Alcohol	10	8.20	ppbv	82			70 (70)	130 (130)	
	Heptane	10	6.80	ppbv	68		*	70 (70)	130 (130)	
	Isopropyl Alcohol	10	8.20	ppbv	82			70 (70)	130 (130)	
	1,1-Dichloroethene	10	8.70	ppbv	87			70 (70)	130 (130)	
	Acetone	10	7.30	ppbv	73			40 (70)	160 (130)	
	Carbon disulfide	10	8.70	ppbv	87			40 (70)	160 (130)	
	Methyl tert-butyl Ether	10	8.30	ppbv	83			70 (70)	130 (130)	
	Methylene Chloride	10	7.40	ppbv	74			70 (70)	130 (130)	
	trans-1,2-Dichloroethene	10	8.70	ppbv	87			70 (70)	130 (130)	
	1,1-Dichloroethane	10	8.90	ppbv	89			70 (70)	130 (130)	
	Cyclohexane	10	8.10	ppbv	81			70 (70)	130 (130)	
	2-Butanone	10	7.20	ppbv	72			40 (70)	160 (130)	
	Carbon Tetrachloride	10	8.60	ppbv	86			70 (70)	130 (130)	
	cis-1,2-Dichloroethene	10	8.60	ppbv	86			70 (70)	130 (130)	
	Chloroform	10	9.10	ppbv	91			70 (70)	130 (130)	
	1,1,1-Trichloroethane	10	8.90	ppbv	89			70 (70)	130 (130)	
	2,2,4-Trimethylpentane	10	7.20	ppbv	72			70 (70)	130 (130)	
	Benzene	10	7.70	ppbv	77			70 (70)	130 (130)	
	1,2-Dichloroethane	10	8.70	ppbv	87			70 (70)	130 (130)	
	Trichloroethene	10	7.60	ppbv	76			70 (70)	130 (130)	
	1,2-Dichloropropane	10	7.20	ppbv	72			70 (70)	130 (130)	
	Bromodichloromethane	10	8.50	ppbv	85			70 (70)	130 (130)	
	4-Methyl-2-Pentanone	10	6.40	ppbv	64			40 (70)	160 (130)	
	Toluene	10	7.60	ppbv	76			70 (70)	130 (130)	
	t-1,3-Dichloropropene	10	7.60	ppbv	76			70 (70)	130 (130)	
	cis-1,3-Dichloropropene	10	7.50	ppbv	75			70 (70)	130 (130)	
	1,1,2-Trichloroethane	10	8.20	ppbv	82			70 (70)	130 (130)	
	Dibromochloromethane	10	8.80	ppbv	88			70 (70)	130 (130)	
	1,2-Dibromoethane	10	8.20	ppbv	82			70 (70)	130 (130)	
	Tetrachloroethene	10	7.70	ppbv	77			70 (70)	130 (130)	
	Chlorobenzene	10	8.40	ppbv	84			70 (70)	130 (130)	
	Ethyl Benzene	10	8.10	ppbv	81			70 (70)	130 (130)	
	m/p-Xylene	20	16.4	ppbv	82			70 (70)	130 (130)	
	o-Xylene	10	8.20	ppbv	82			70 (70)	130 (130)	
	Styrene	10	8.20	ppbv	82			70 (70)	130 (130)	
	Bromoform	10	8.80	ppbv	88			70 (70)	130 (130)	
	1,1,2,2-Tetrachloroethane	10	7.30	ppbv	73			70 (70)	130 (130)	

() = LABORATORY INHOUSE LIMIT

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q1726</u>	Analytical Method:	<u>SWTO-15</u>
Client:	<u>Woodard & Curran</u>	Datafile :	<u>VL042385.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VL0418ABS01	2-Chlorotoluene	10	8.20	ppbv	82			70 (70)	130 (130)	
	1,3,5-Trimethylbenzene	10	8.10	ppbv	81			70 (70)	130 (130)	
	1,2,4-Trimethylbenzene	10	7.70	ppbv	77			70 (70)	130 (130)	
	1,3-Dichlorobenzene	10	8.60	ppbv	86			70 (70)	130 (130)	
	1,4-Dichlorobenzene	10	8.50	ppbv	85			70 (70)	130 (130)	
	1,2-Dichlorobenzene	10	8.40	ppbv	84			70 (70)	130 (130)	
	1,2,4-Trichlorobenzene	10	8.40	ppbv	84			70 (70)	130 (130)	
	Hexachloro-1,3-butadiene	10	8.60	ppbv	86			70 (70)	130 (130)	
	Naphthalene	10	7.70	ppbv	77			40 (70)	160 (130)	
	1,3-Butadiene	10	7.60	ppbv	76			70 (70)	130 (130)	
	4-Ethyltoluene	10	8.30	ppbv	83			70 (70)	130 (130)	
	Hexane	10	7.60	ppbv	76			70 (70)	130 (130)	
	Allyl Chloride	10	8.00	ppbv	80			70 (70)	130 (130)	
	1,4-Dioxane	10	6.80	ppbv	68			40 (70)	160 (130)	
	Methyl methacrylate	10	6.90	ppbv	69		*	70 (70)	130 (130)	

Duplicate Sample Summary

Lab Sample Id :	Q1726-06DL2DUP	Q1726-06DL2
Client Id :	IA-B2-3-03312025DL2DU1	IA-B2-3-03312025DL2
DF :	100	100
Datafile :	VL042393.D	VL042392.D
Anal Date & Time :	04/18/2025 15:47	04/18/2025 15:16

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	0	0	0
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	0	0	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	0	0
2-Butanone	0	0	0
2-Chlorotoluene	0	0	0
4-Ethyltoluene	0	0	0
4-Methyl-2-Pentanone	0	0	0
Acetone	470	520	10.1
Allyl Chloride	0	0	0
Benzene	0	0	0
Bromodichloromethane	0	0	0
Bromoethene	0	0	0
Bromoform	0	0	0
Bromomethane	0	0	0
Carbon Disulfide	0	0	0

Duplicate Sample Summary

Lab Sample Id :	Q1726-06DL2DUP	Q1726-06DL2
Client Id :	IA-B2-3-03312025DL2DUI	IA-B2-3-03312025DL2
DF :	100	100
Datafile :	VL042393.D	VL042392.D
Anal Date & Time :	04/18/2025 15:47	04/18/2025 15:16

Parameter	Result	Result	RPD
Carbon Tetrachloride	0	0	0
Chlorobenzene	0	0	0
Chloroethane	0	0	0
Chloroform	0	0	0
Chloromethane	0	0	0
cis-1,2-Dichloroethene	0	0	0
cis-1,3-Dichloropropene	0	0	0
Cyclohexane	0	0	0
Dibromochloromethane	0	0	0
Dichlorodifluoromethane	0	0	0
Dichlorotetrafluoroethane	0	0	0
Ethanol	220	290	27.5 *
Ethyl Benzene	0	0	0
Heptane	0	0	0
Hexachloro-1,3-Butadiene	0	0	0
Hexane	0	0	0
Isopropyl Alcohol	30.1	35.1	15.3
m/p-Xylene	0	0	0
Methyl Methacrylate	0	0	0
Methyl tert-Butyl Ether	0	0	0
Methylene Chloride	0	0	0
Naphthalene	0	0	0
o-Xylene	0	0	0
Styrene	0	0	0
t-1,3-Dichloropropene	0	0	0
tert-Butyl alcohol	0	0	0
Tetrachloroethene	0	0	0
Tetrahydrofuran	0	0	0
Toluene	13.5	14.1	4.3
trans-1,2-Dichloroethene	0	0	0
Trichloroethene	0	0	0

Duplicate Sample Summary

Lab Sample Id :	Q1726-06DL2DUP	Q1726-06DL2
Client Id :	IA-B2-3-03312025DL2DUI	IA-B2-3-03312025DL2
DF :	100	100
Datafile :	VL042393.D	VL042392.D
Anal Date & Time :	04/18/2025 15:47	04/18/2025 15:16

Parameter	Result	Result	RPD
Trichlorofluoromethane	0	0	0
Vinyl Chloride	0	0	0

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VL0417ABL01

Lab Name: CHEMTECH

Contract: WOOD06

Lab Code: CHEM Case No.: Q1726

SAS No.: Q1726 SDG NO.: Q1726

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-DUP-3-03312025	Q1726-01	VL042366.D	04/17/2025
IA-B2-6-03312025	Q1726-02	VL042367.D	04/17/2025
IA-B2-2-03312025	Q1726-03	VL042368.D	04/17/2025
IA-B2-5-03312025	Q1726-04	VL042369.D	04/17/2025
IA-B2-1-03312025	Q1726-05	VL042370.D	04/17/2025
IA-B2-3-03312025	Q1726-06	VL042371.D	04/17/2025
IA-B2-4-03312025	Q1726-07	VL042372.D	04/17/2025
IA-B2-4-03312025DL	Q1726-07DL	VL042373.D	04/17/2025
IA-DUP-3-03312025DL	Q1726-01DL	VL042376.D	04/18/2025
IA-B2-6-03312025DL	Q1726-02DL	VL042377.D	04/18/2025
IA-B2-2-03312025DL	Q1726-03DL	VL042378.D	04/18/2025
IA-B2-5-03312025DL	Q1726-04DL	VL042379.D	04/18/2025
IA-B2-1-03312025DL	Q1726-05DL	VL042380.D	04/18/2025
IA-B2-3-03312025DL	Q1726-06DL	VL042381.D	04/18/2025

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VL0418ABL01

Lab Name: CHEMTECH

Contract: WOOD06

Lab Code: CHEM Case No.: Q1726

SAS No.: Q1726 SDG NO.: Q1726

Lab File ID: VL042384.D

Lab Sample ID: VL0418ABL01

Date Analyzed: 04/18/2025

Time Analyzed: 10:54

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
VL0418ABS01	VL0418ABS01	VL042385.D	04/18/2025
IA-B2-4-03312025DL2	Q1726-07DL2	VL042386.D	04/18/2025
IA-DUP-3-03312025DL2	Q1726-01DL2	VL042387.D	04/18/2025
IA-B2-6-03312025DL2	Q1726-02DL2	VL042388.D	04/18/2025
IA-B2-5-03312025DL2	Q1726-04DL2	VL042389.D	04/18/2025
IA-B2-2-03312025DL2	Q1726-03DL2	VL042390.D	04/18/2025
IA-B2-1-03312025DL2	Q1726-05DL2	VL042391.D	04/18/2025
IA-B2-3-03312025DL2	Q1726-06DL2	VL042392.D	04/18/2025
IA-B2-3-03312025DL2DUP	Q1726-06DL2DUP	VL042393.D	04/18/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: WOOD06
Lab Code: CHEM Case No.: Q1726 SAS No.: Q1726 SDG NO.: Q1726
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-DUP-3-03312025	Q1726-01	VL042366.D	04/17/2025	20:05
IA-B2-6-03312025	Q1726-02	VL042367.D	04/17/2025	20:38
IA-B2-2-03312025	Q1726-03	VL042368.D	04/17/2025	21:12
IA-B2-5-03312025	Q1726-04	VL042369.D	04/17/2025	21:45
IA-B2-1-03312025	Q1726-05	VL042370.D	04/17/2025	22:19
IA-B2-3-03312025	Q1726-06	VL042371.D	04/17/2025	22:52
IA-B2-4-03312025	Q1726-07	VL042372.D	04/17/2025	23:26
IA-B2-4-03312025DL	Q1726-07DL	VL042373.D	04/17/2025	23:57
IA-DUP-3-03312025DL	Q1726-01DL	VL042376.D	04/18/2025	01:30

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: WOOD06
Lab Code: CHEM Case No.: Q1726 SAS No.: Q1726 SDG NO.: Q1726
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
IA-B2-6-03312025DL	Q1726-02DL	VL042377.D	04/18/2025	02:01
IA-B2-2-03312025DL	Q1726-03DL	VL042378.D	04/18/2025	02:32
IA-B2-5-03312025DL	Q1726-04DL	VL042379.D	04/18/2025	03:03
IA-B2-1-03312025DL	Q1726-05DL	VL042380.D	04/18/2025	03:34
IA-B2-3-03312025DL	Q1726-06DL	VL042381.D	04/18/2025	04:05

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: WOOD06
Lab Code: CHEM Case No.: Q1726 SAS No.: Q1726 SDG NO.: Q1726
Lab File ID: VL042382.D BFB Injection Date: 04/18/2025
Instrument ID: MSVOA_L BFB Injection Time: 07:51
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	23.9
75	30.0 - 66.0% of mass 95	62.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.3 (0.5) 1
174	50.0 - 120.0% of mass 95	63.4
175	4.0 - 9.0% of mass 174	4.6 (7.2) 1
176	93.0 - 101.0% of mass 174	58.9 (93) 1
177	5.0 - 9.0% of mass 176	3.8 (6.5) 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
VSTDCCC010	VSTDCCC010	VL042383.D	04/18/2025	10:23
VL0418ABL01	VL0418ABL01	VL042384.D	04/18/2025	10:54
VL0418ABS01	VL0418ABS01	VL042385.D	04/18/2025	11:38
IA-B2-4-03312025DL2	Q1726-07DL2	VL042386.D	04/18/2025	12:09
IA-DUP-3-03312025DL2	Q1726-01DL2	VL042387.D	04/18/2025	12:41
IA-B2-6-03312025DL2	Q1726-02DL2	VL042388.D	04/18/2025	13:12
IA-B2-5-03312025DL2	Q1726-04DL2	VL042389.D	04/18/2025	13:43
IA-B2-2-03312025DL2	Q1726-03DL2	VL042390.D	04/18/2025	14:14
IA-B2-1-03312025DL2	Q1726-05DL2	VL042391.D	04/18/2025	14:45
IA-B2-3-03312025DL2	Q1726-06DL2	VL042392.D	04/18/2025	15:16
IA-B2-3-03312025DL2DUP	Q1726-06DL2DUP	VL042393.D	04/18/2025	15:47

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: WOOD06
 Lab Code: CHEM Case No.: Q1726 SAS No.: Q1726 SDG NO.: Q1726
 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-DUP-3-03312025	122216	2.79	344823	3.96	303405	8.88
IA-DUP-3-03312025DL	100356	2.79	288404	3.96	249449	8.88
IA-B2-6-03312025	117602	2.79	335422	3.96	296955	8.88
IA-B2-6-03312025DL	99418	2.78	272592	3.96	237645	8.88
IA-B2-2-03312025	119191	2.79	333003	3.96	297493	8.88
IA-B2-2-03312025DL	92120	2.79	265690	3.96	228865	8.88
IA-B2-5-03312025	115766	2.79	331154	3.96	288378	8.88
IA-B2-5-03312025DL	92518	2.78	260556	3.96	221578	8.88
IA-B2-1-03312025	113751	2.79	331268	3.96	291013	8.88
IA-B2-1-03312025DL	90034	2.79	252514	3.96	219443	8.88
IA-B2-3-03312025	113154	2.79	322735	3.96	284478	8.88
IA-B2-3-03312025DL	87593	2.78	246915	3.95	211054	8.88
IA-B2-4-03312025	110448	2.79	317011	3.96	275197	8.88
IA-B2-4-03312025DL	107602	2.78	303479	3.95	266154	8.88
VL0417ABL01	113566	2.79	328716	3.97	297633	8.89
VL0417ABS01	122375	2.79	352201	3.97	321521	8.89

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: WOOD06
 Lab Code: CHEM Case No.: Q1726 SAS No.: Q1726 SDG NO.: Q1726
 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.						

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.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: WOOD06
 Lab Code: CHEM Case No.: Q1726 SAS No.: Q1726 SDG NO.: Q1726
 Lab File ID: VL042383.D Date Analyzed: 04/18/2025
 Instrument ID: MSVOA_L Time Analyzed: 10:23
 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	135964	2.78	427541	3.95	379215	8.88
UPPER LIMIT	190350	3.11	598557	4.28	530901	9.21
LOWER LIMIT	81578.4	2.45	256525	3.62	227529	8.55
EPA SAMPLE NO.						
IA-DUP-3-03312025DL2	133179	2.78	411086	3.95	357783	8.88
IA-B2-6-03312025DL2	132986	2.78	409322	3.95	354583	8.88
IA-B2-2-03312025DL2	127324	2.79	395389	3.96	342875	8.89
IA-B2-5-03312025DL2	134501	2.79	412843	3.96	353048	8.89
IA-B2-1-03312025DL2	125703	2.79	390416	3.96	327579	8.88
IA-B2-3-03312025DL2	121646	2.79	379829	3.97	325040	8.89
IA-B2-3-03312025DL2DUP	123948	2.79	373006	3.97	318921	8.89
IA-B2-4-03312025DL2	137576	2.79	424572	3.96	368674	8.88
VL0418ABL01	137116	2.78	425910	3.96	379163	8.88
VL0418ABS01	137596	2.78	421834	3.95	371546	8.88

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:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-DUP-3-03312025	SDG No.:	Q1726
Lab Sample ID:	Q1726-01	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
VL042366.D	1		04/17/25 20:05	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
64-17-5	Ethanol	250	471	EQ	0.60	0.94	ug/m3
74-87-3	Chloromethane	0.58	1.20		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
593-60-2	Bromoethene	0.12	0.52	U	0.52	2.19	ug/m3
75-65-0	tert-Butyl alcohol	0.53	1.61		0.58	1.52	ug/m3
142-82-5	Heptane	8.30	34.0		0.45	2.05	ug/m3
67-63-0	Isopropyl Alcohol	28.5	70.1	E	0.17	1.23	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
67-64-1	Acetone	150	356	E	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	2.10	7.30		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	2.00	6.88		0.76	1.72	ug/m3
78-93-3	2-Butanone	1.10	3.24		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	18.2	85.0	E	0.47	2.34	ug/m3
71-43-2	Benzene	1.70	5.43		0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.16	0.65	J	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	49.2	185	E	0.41	1.88	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-DUP-3-03312025	SDG No.:	Q1726
Lab Sample ID:	Q1726-01	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
VL042366.D	1		04/17/25 20:05	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
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
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	0.10	0.68		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	11.1	48.2		0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	38.4	167	E	0.91	4.34	ug/m3
95-47-6	o-Xylene	15.5	67.3	E	0.52	2.17	ug/m3
100-42-5	Styrene	0.35	1.49	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	0.96	4.97		0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	7.00	34.4		0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	19.3	94.9	E	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	0.26	1.56	J	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	2.30	12.1		0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	5.70	28.0		0.59	2.46	ug/m3
110-54-3	Hexane	4.70	16.6		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	10.1		70 (65) - 130 (135)	101%	SPK: 10
----------	-------------------------	------	--	---------------------	------	---------

INTERNAL STANDARDS

74-97-5	Bromochloromethane	122000	2.787
540-36-3	1,4-Difluorobenzene	345000	3.959
3114-55-4	Chlorobenzene-d5	303000	8.882

TENTATIVE IDENTIFIED COMPOUNDS

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-DUP-3-03312025	SDG No.:	Q1726
Lab Sample ID:	Q1726-01	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
VL042366.D	1		04/17/25 20:05	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
75-45-6	Chlorodifluoromethane	0.25		J		1.47	ppbv
115-07-1	Propene	2.50		J		1.49	ppbv
000106-97-8	Butane	7.90		J		1.62	ppbv
000591-76-4	Hexane, 2-methyl-	10.4		J		4.05	ppbv
000589-34-4	Hexane, 3-methyl-	11.2		J		4.27	ppbv
000108-87-2	Cyclohexane, methyl-	9.30		J		5.67	ppbv
000592-13-2	Hexane, 2,5-dimethyl-	6.50		J		6.21	ppbv
000565-75-3	Pentane, 2,3,4-trimethyl-	12.5		J		6.83	ppbv
000589-81-1	Heptane, 3-methyl-	9.50		J		7.60	ppbv
000111-65-9	Octane	9.70		J		8.30	ppbv
98-82-8	Isopropylbenzene	0.99		J		10.5	ppbv
103-65-1	n-propylbenzene	3.30		J		11.0	ppbv
000611-14-3	Benzene, 1-ethyl-2-methyl-	7.00		J		11.3	ppbv
135-98-8	sec-Butylbenzene	0.24		J		11.8	ppbv
99-87-6	p-Isopropyltoluene	0.38		J		11.9	ppbv
104-51-8	n-Butylbenzene	1.30		J		12.3	ppbv
000933-98-2	Benzene, 1-ethyl-2,3-dimethyl-	7.60		J		12.6	ppbv
91-57-6	Naphthalene,2-methyl-	1.20		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 : VL042366.D
 Acq On : 17 Apr 2025 20:05
 Operator : SY/MD
 Sample : Q1726-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-DUP-3-03312025

Manual Integrations
 APPROVED

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

Quant Time: Apr 18 02:42:22 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)

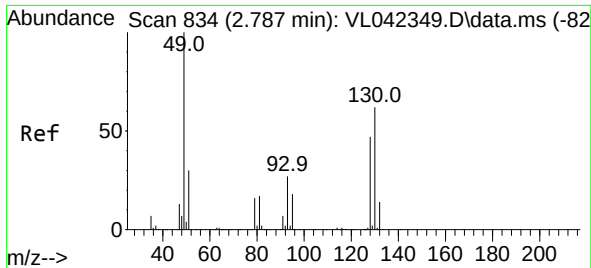
Internal Standards						
1) Bromochloromethane	2.787	49	122216	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	344823	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	303405	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	252701	10.136	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.400%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	10356	0.480	ppbv	94
3) Chlorodifluoromethane	1.473	51	5062m	0.246	ppbv	
4) Chloromethane	1.531	50	4947	0.579	ppbv	94
9) Propene	1.489	41	23550m	2.515	ppbv	
10) Heptane	4.978	43	219183	8.331	ppbv	97
11) Trichlorofluoromethane	1.877	101	5014	0.244	ppbv	93
13) Ethanol	1.722	45	370679	249.050	ppbv	75
15) Acetone	1.835	43	3072130	153.552	ppbv #	43
17) tert-Butyl alcohol	2.046	59	13005	0.525	ppbv #	61
19) Isopropyl Alcohol	1.887	45	316355	28.464	ppbv #	33
20) Methylene Chloride	2.062	84	16692	2.130	ppbv	91
26) Hexane	2.826	57	94163	4.717	ppbv #	36
30) Cyclohexane	3.855	84	31546	1.955	ppbv #	88
34) 2-Butanone	2.560	43	30497	1.118	ppbv	99
35) Carbon Tetrachloride	3.755	117	2352m	0.075	ppbv	
36) Benzene	3.654	78	64219	1.727	ppbv	97
37) 1,2-Dichloroethane	3.221	62	3653m	0.164	ppbv	
44) 2,2,4-Trimethylpentane	4.642	57	1167050	18.168	ppbv	95
52) Tetrachloroethene	8.231	164	1477m	0.103	ppbv	
53) Toluene	6.940	91	2194341	49.165	ppbv	99
58) Ethyl Benzene	9.357	91	668072	11.113	ppbv	99
59) m/p-Xylene	9.535	91	1861243	38.435	ppbv	100
60) o-Xylene	9.966	91	753743	15.456	ppbv	99
61) Styrene	9.872	104	8179	0.351	ppbv	92
62) Isopropylbenzene	10.539	105	70653	0.987	ppbv	99
64) n-propylbenzene	10.992	120	59824	3.324	ppbv	92
67) sec-Butylbenzene	11.769	105	21870	0.239	ppbv #	82
69) p-Isopropyltoluene	11.927	119	29958	0.377	ppbv	98
70) n-Butylbenzene	12.283	91	106745m	1.289	ppbv	
71) 2-Chlorotoluene	10.901	91	53769	0.958	ppbv	99
72) 4-Ethyltoluene	11.128	105	338919	5.685	ppbv #	56
73) 1,3,5-Trimethylbenzene	11.205	105	368859	7.008	ppbv	99
74) 1,2,4-Trimethylbenzene	11.539	105	1184512	19.268	ppbv #	66
76) 1,4-Dichlorobenzene	11.672	146	8250	0.257	ppbv #	36
79) Naphthalene	13.513	128	171574	2.334	ppbv	99
80) Naphthalene,2-methyl-	14.458	142	52010m	1.241	ppbv	

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

Manual Integrations
APPROVED

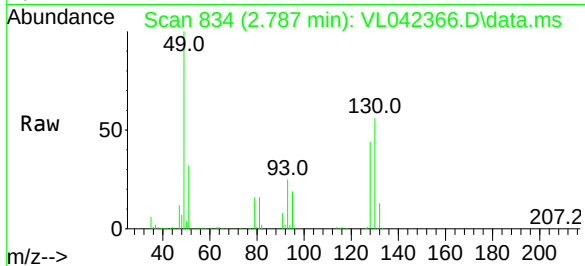
Quant Time: Apr 18 02:42:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 834
Delta R.T. -0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

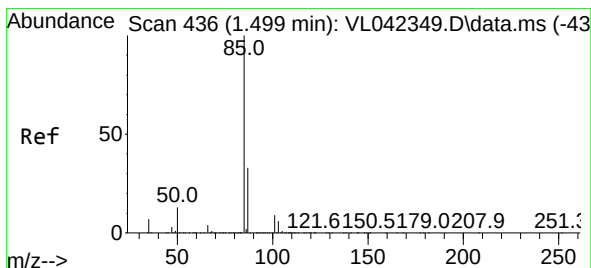
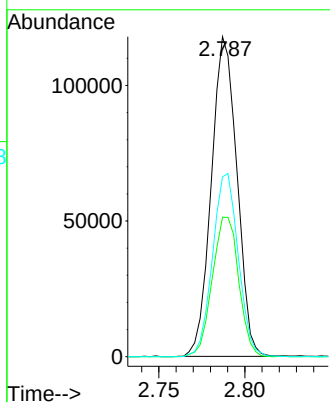
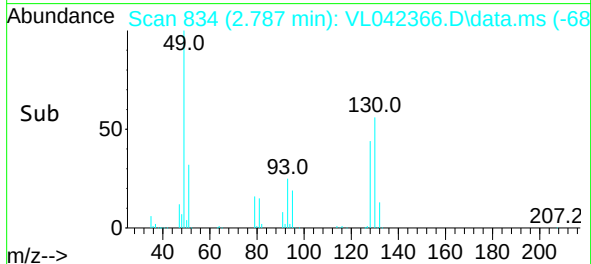
Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025



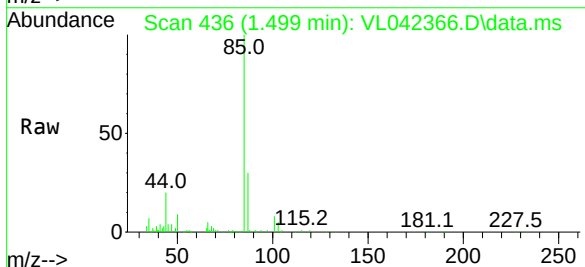
Tgt Ion: 49 Resp: 122210
Ion Ratio Lower Upper
49 100
128 44.9 22.8 68.4
130 57.5 29.3 88.0

Manual Integrations
APPROVED

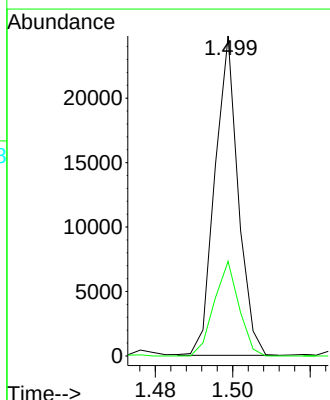
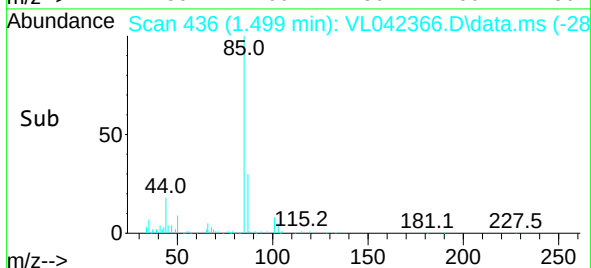
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

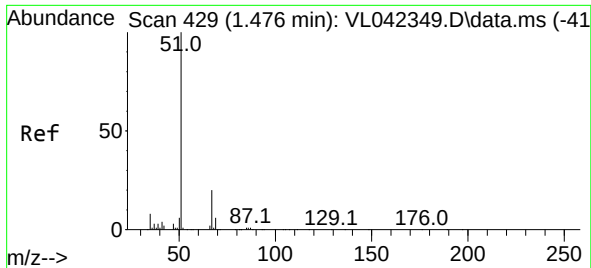


#2
Dichlorodifluoromethane
Concen: 0.480 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05



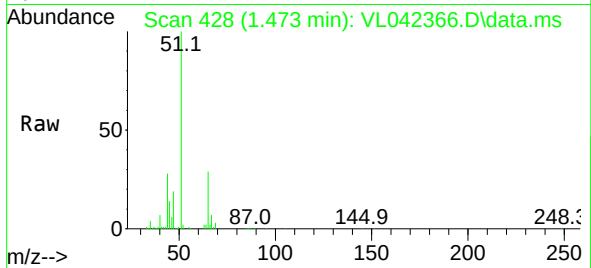
Tgt Ion: 85 Resp: 10356
Ion Ratio Lower Upper
85 100
87 29.6 26.6 39.8





#3
Chlorodifluoromethane
Concen: 0.246 ppbv m
RT: 1.473 min Scan# 429
Delta R.T. -0.003 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

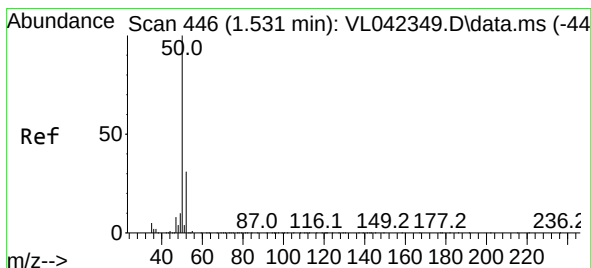
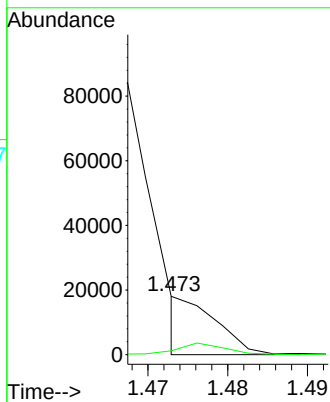
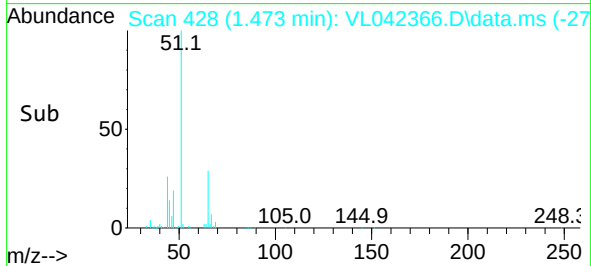
Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025



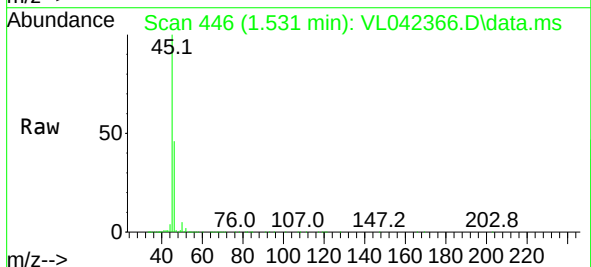
Tgt Ion: 51 Resp: 5062
Ion Ratio Lower Upper
51 100
67 36.1 16.2 24.4

Manual Integrations
APPROVED

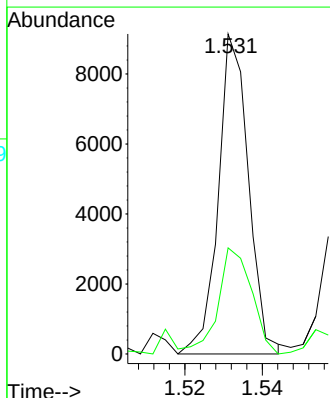
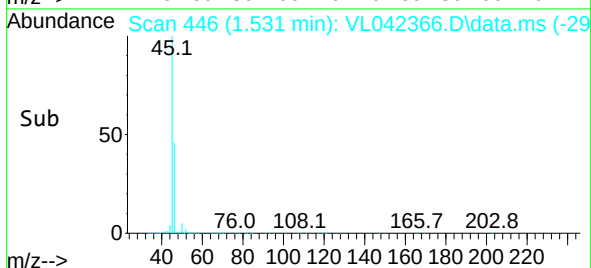
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

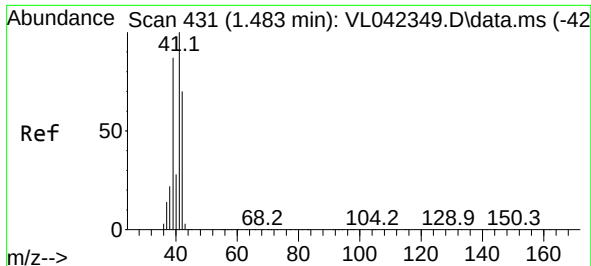


#4
Chloromethane
Concen: 0.579 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05



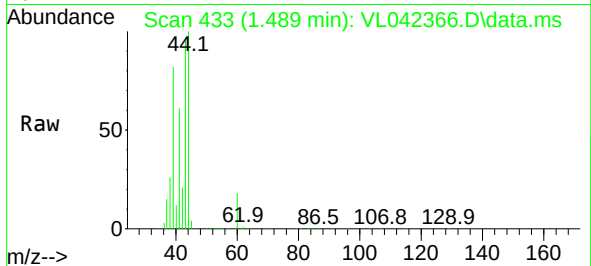
Tgt Ion: 50 Resp: 4947
Ion Ratio Lower Upper
50 100
52 34.2 24.7 37.1





#9
 Propene
 Concen: 2.515 ppbv m
 RT: 1.489 min Scan# 41
 Delta R.T. 0.006 min
 Lab File: VL042366.D
 Acq: 17 Apr 2025 20:05

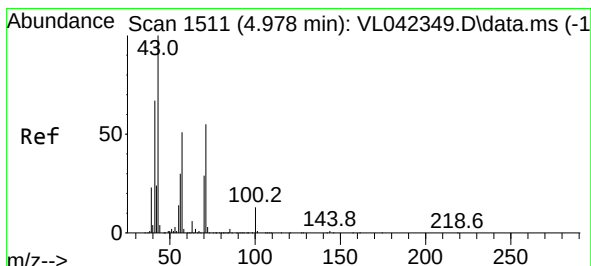
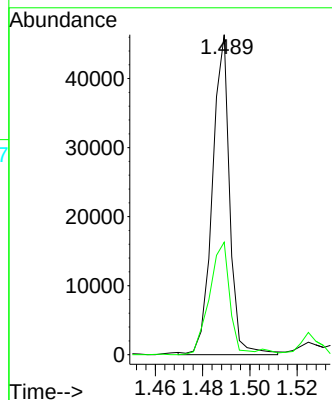
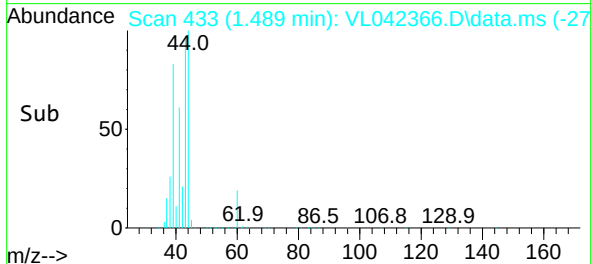
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-DUP-3-03312025



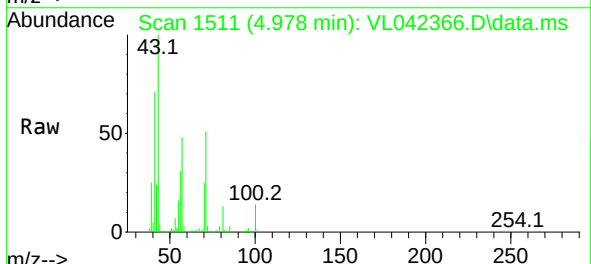
Tgt Ion: 41 Resp: 23550
 Ion Ratio Lower Upper
 41 100
 42 220.9 56.2 84.4

Manual Integrations
 APPROVED

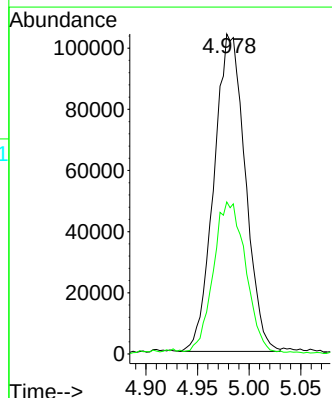
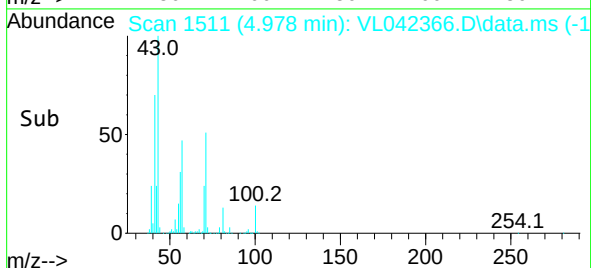
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

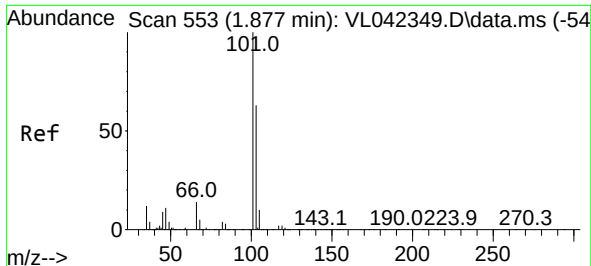


#10
 Heptane
 Concen: 8.331 ppbv
 RT: 4.978 min Scan# 1511
 Delta R.T. 0.000 min
 Lab File: VL042366.D
 Acq: 17 Apr 2025 20:05



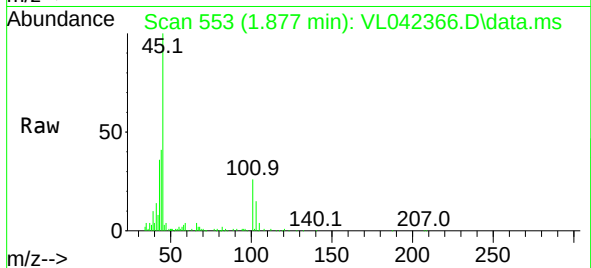
Tgt Ion: 43 Resp: 219183
 Ion Ratio Lower Upper
 43 100
 57 51.9 39.9 59.9





#11
Trichlorofluoromethane
Concen: 0.244 ppbv
RT: 1.877 min Scan# 5014
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

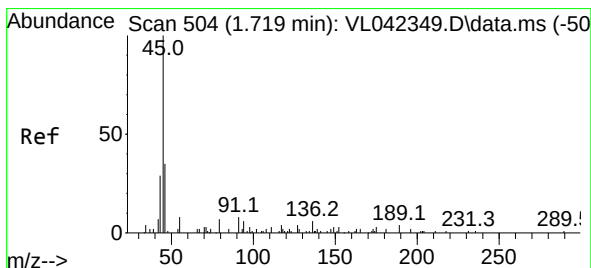
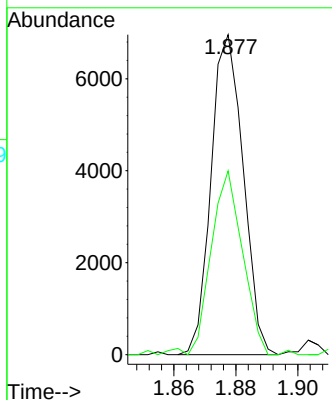
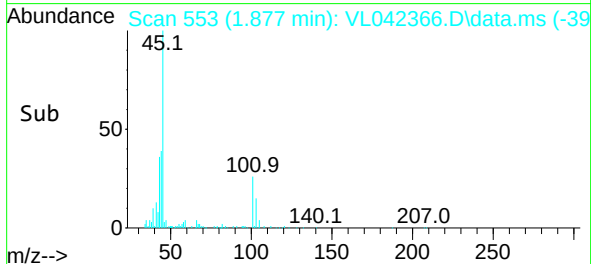
Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025



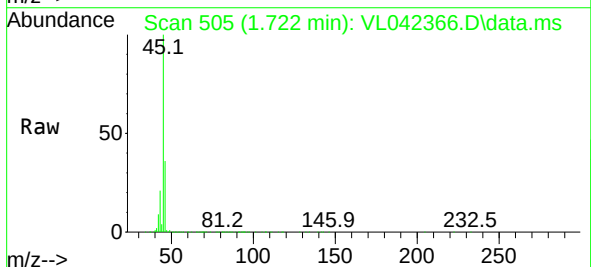
Tgt Ion:101 Resp: 5014
Ion Ratio Lower Upper
101 100
103 57.5 50.1 75.1

Manual Integrations
APPROVED

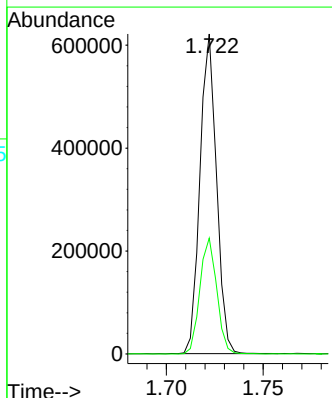
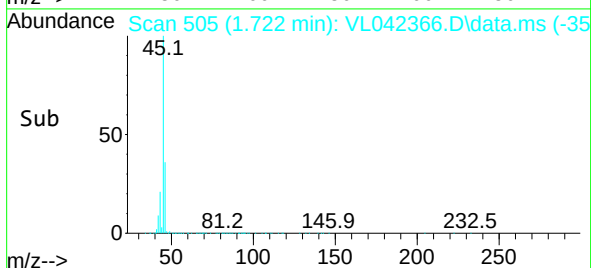
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

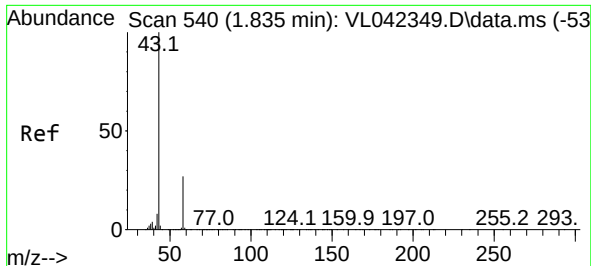


#13
Ethanol
Concen: 249.050 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05



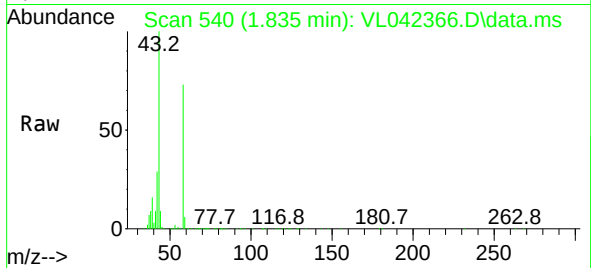
Tgt Ion: 45 Resp: 370679
Ion Ratio Lower Upper
45 100
46 37.1 21.9 87.7





#15
Acetone
Concen: 153.552 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

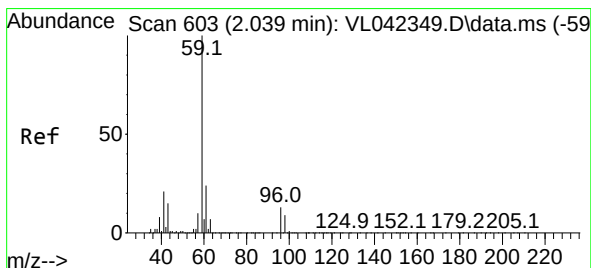
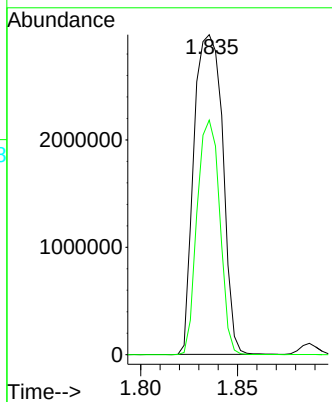
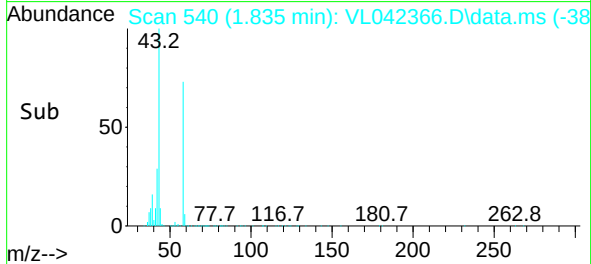
Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025



Tgt Ion: 43 Resp: 3072130
Ion Ratio Lower Upper
43 100
58 58.0 22.4 33.6

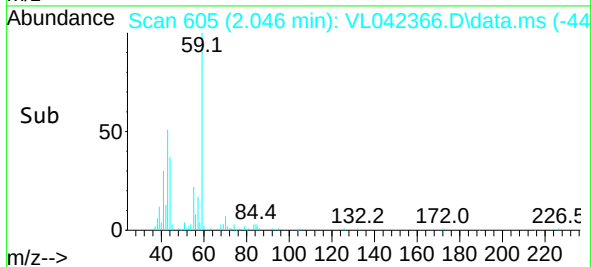
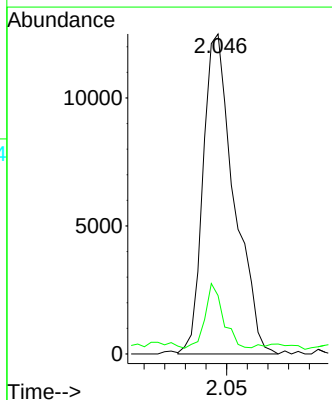
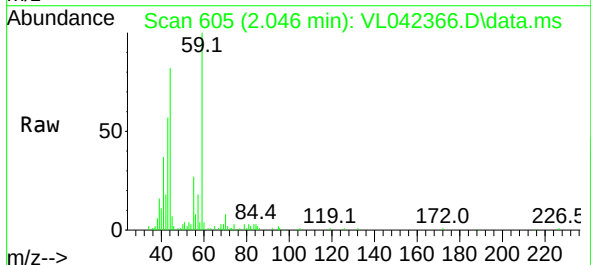
Manual Integrations
APPROVED

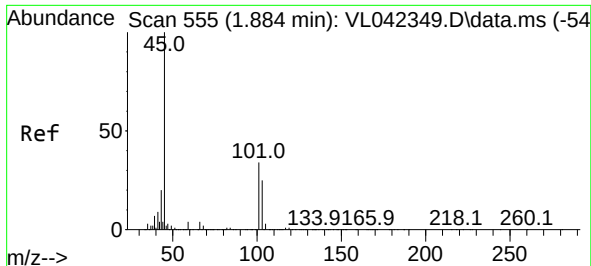
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#17
tert-Butyl alcohol
Concen: 0.525 ppbv
RT: 2.046 min Scan# 605
Delta R.T. 0.007 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

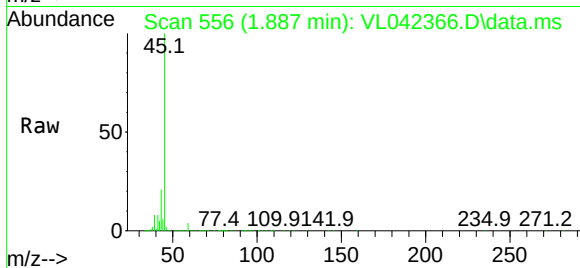
Tgt Ion: 59 Resp: 13005
Ion Ratio Lower Upper
59 100
57 25.8 8.7 13.1





#19
Isopropyl Alcohol
Concen: 28.464 ppbv
RT: 1.887 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

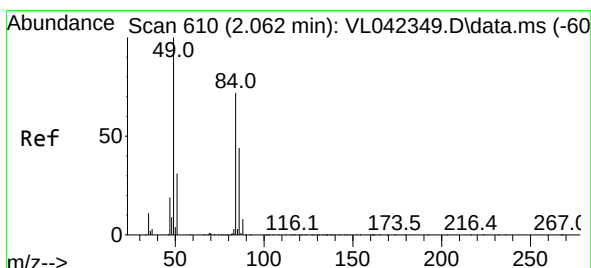
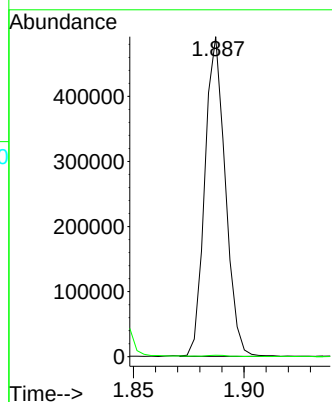
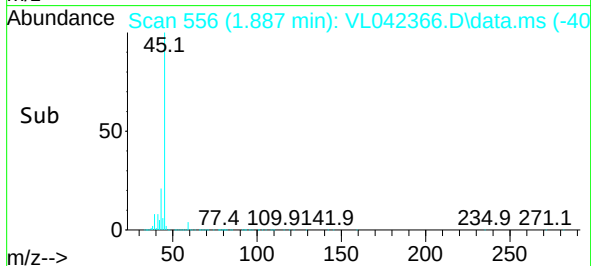
Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025



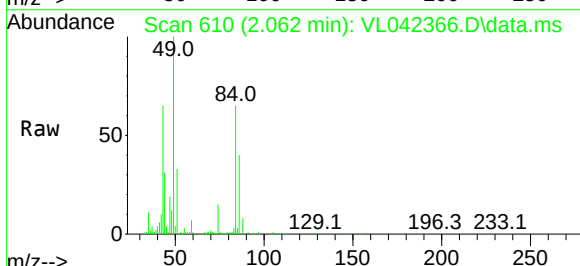
Tgt Ion: 45 Resp: 31635
Ion Ratio Lower Upper
45 100
58 0.0 34.5 51.7

Manual Integrations
APPROVED

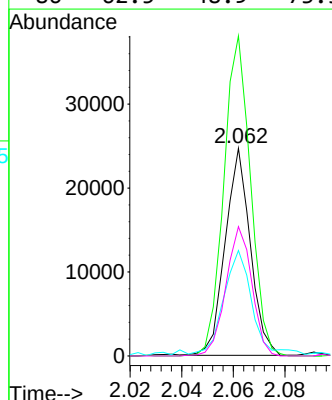
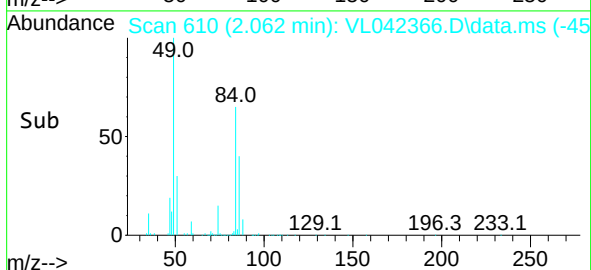
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

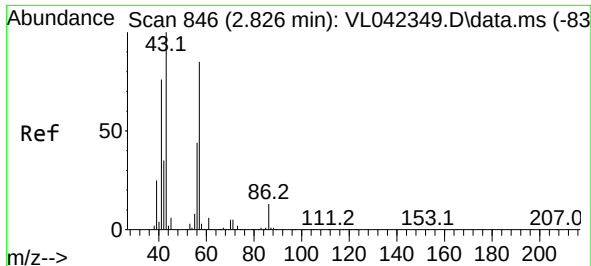


#20
Methylene Chloride
Concen: 2.130 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05



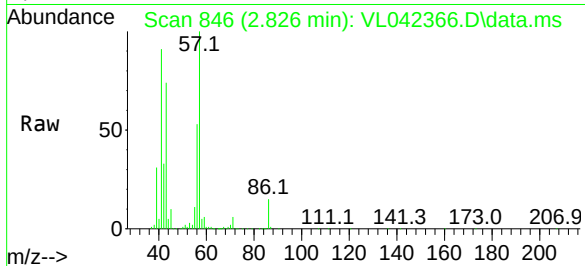
Tgt Ion: 84 Resp: 16692
Ion Ratio Lower Upper
84 100
49 154.6 111.6 167.4
51 48.0 35.1 52.7
86 62.5 48.9 73.3





#26
Hexane
Concen: 4.717 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

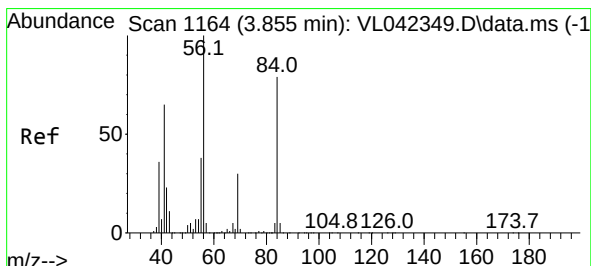
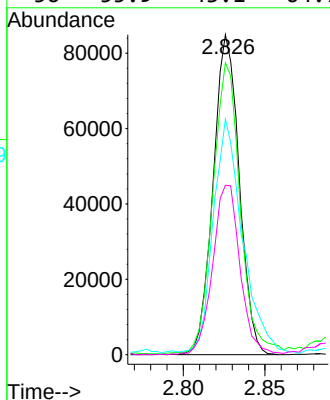
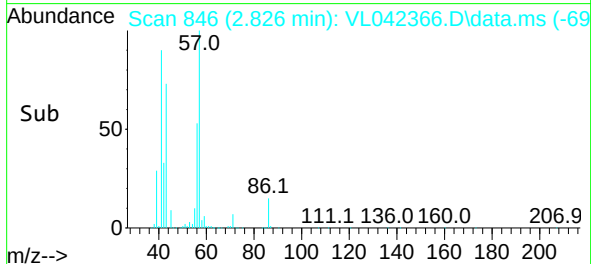
Instrument : MSVOA_L
ClientSampleId :
IA-DUP-3-03312025



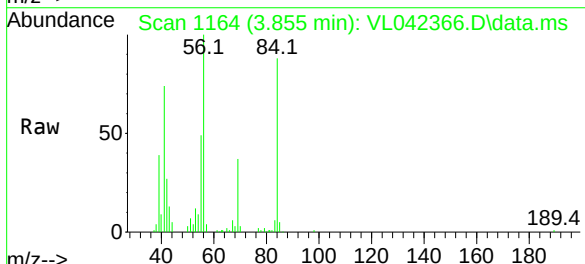
Tgt Ion: 57 Resp: 9416
Ion Ratio Lower Upper
57 100
41 95.7 77.9 116.9
43 83.0 208.4 312.6
56 55.9 43.1 64.7

Manual Integrations
APPROVED

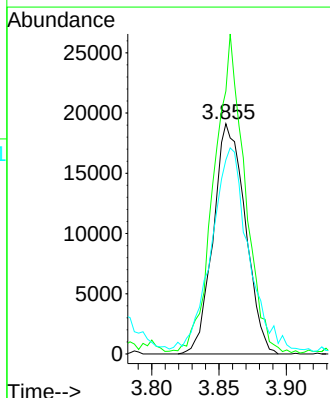
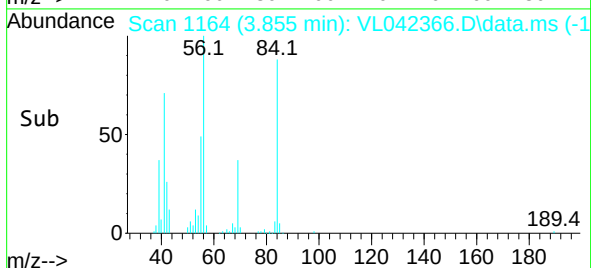
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

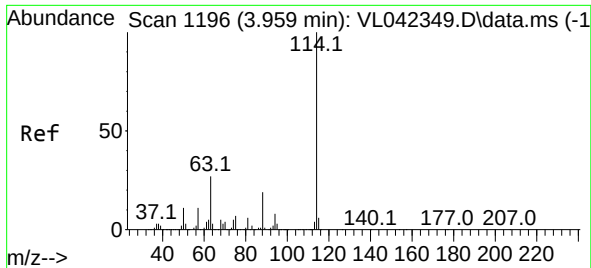


#30
Cyclohexane
Concen: 1.955 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05



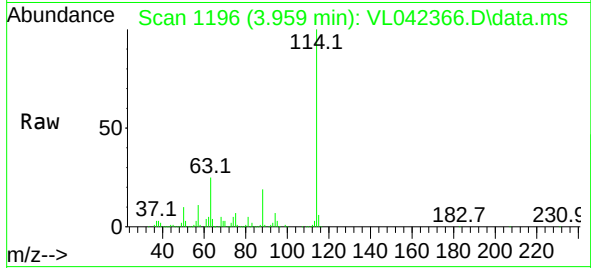
Tgt Ion: 84 Resp: 31546
Ion Ratio Lower Upper
84 100
56 133.1 101.0 151.4
41 102.4 67.4 101.0#





#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.959 min Scan# 1196
 Delta R.T. 0.000 min
 Lab File: VL042366.D
 Acq: 17 Apr 2025 20:05

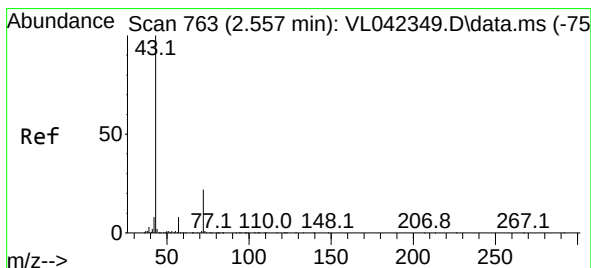
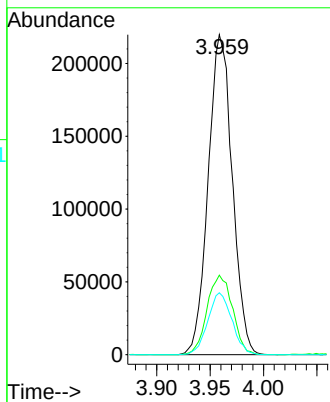
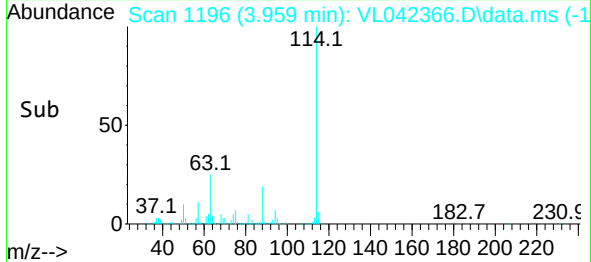
Instrument : MSVOA_L
 ClientSampleId : IA-DUP-3-03312025



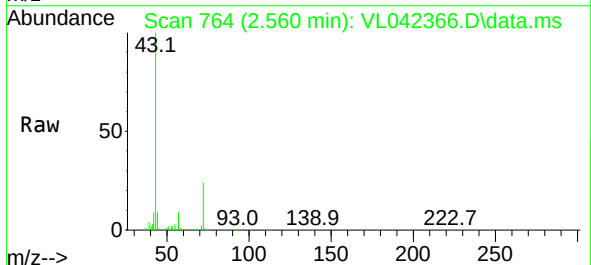
Tgt Ion:114 Resp: 34482
 Ion Ratio Lower Upper
 114 100
 63 26.2 21.8 32.6
 88 19.3 15.5 23.3

Manual Integrations
 APPROVED

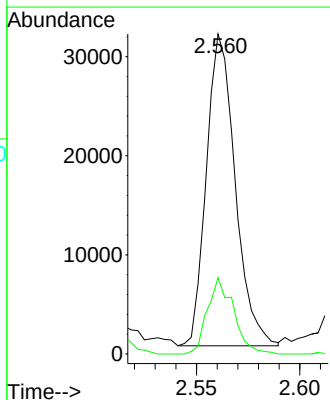
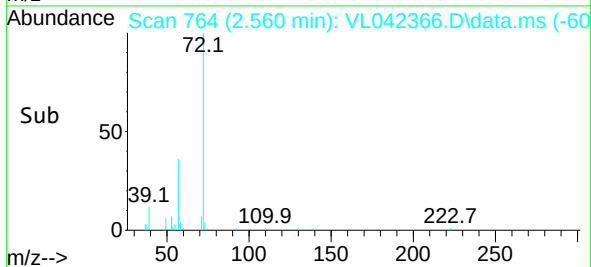
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

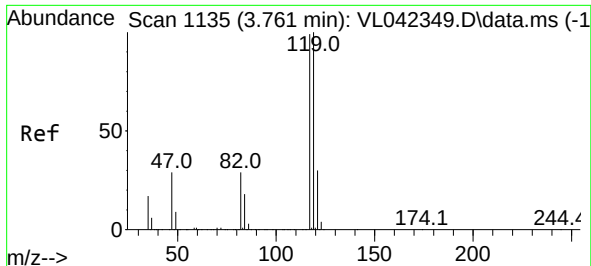


#34
 2-Butanone
 Concen: 1.118 ppbv
 RT: 2.560 min Scan# 764
 Delta R.T. 0.003 min
 Lab File: VL042366.D
 Acq: 17 Apr 2025 20:05



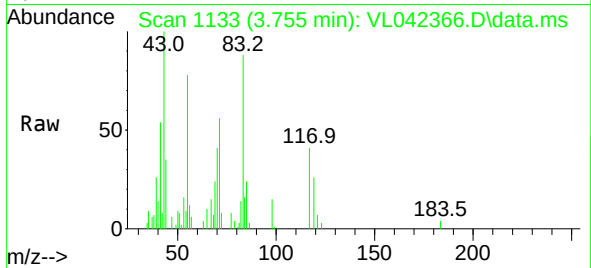
Tgt Ion: 43 Resp: 30497
 Ion Ratio Lower Upper
 43 100
 72 22.3 18.2 27.2





#35
Carbon Tetrachloride
Concen: 0.075 ppbv m
RT: 3.755 min Scan# 1135
Delta R.T. -0.006 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

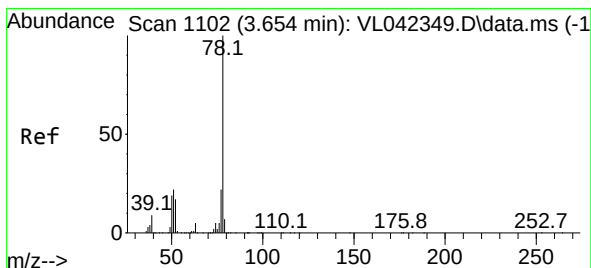
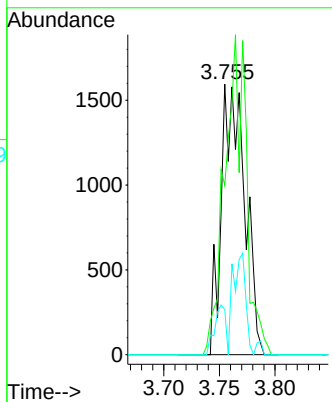
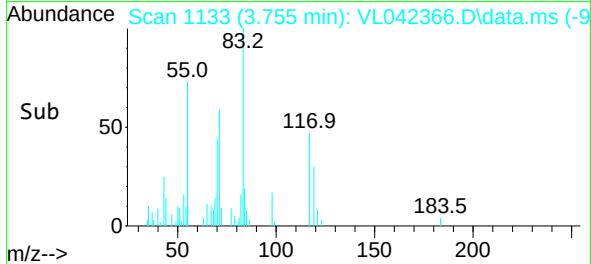
Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025



Tgt Ion:117 Resp: 2352
Ion Ratio Lower Upper
117 100
119 62.5 80.5 120.7
121 16.7 24.2 36.2

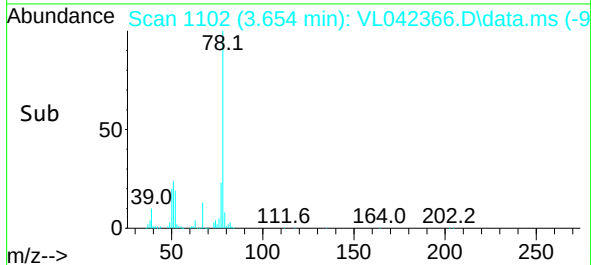
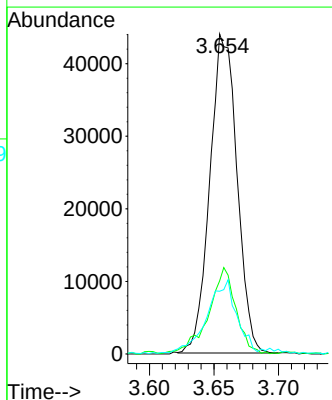
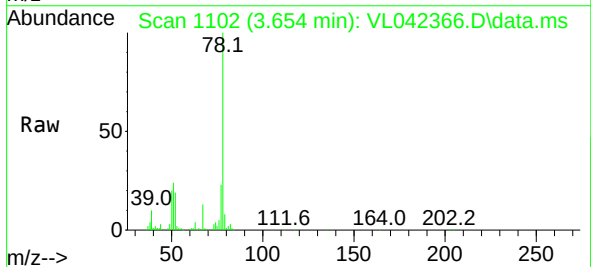
Manual Integrations
APPROVED

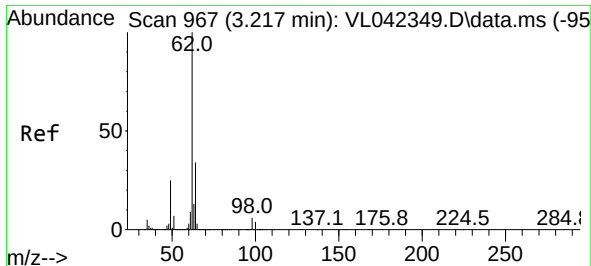
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#36
Benzene
Concen: 1.727 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion: 78 Resp: 64219
Ion Ratio Lower Upper
78 100
77 22.7 17.4 26.0
50 18.0 15.5 23.3





#37

1,2-Dichloroethane

Concen: 0.164 ppbv

RT: 3.221 min Scan# 967

Delta R.T. 0.003 min

Lab File: VL042366.D

Acq: 17 Apr 2025 20:05

Instrument :

MSVOA_L

ClientSampleId :

IA-DUP-3-03312025

Tgt Ion: 62 Resp: 365

Ion Ratio Lower Upper

62 100

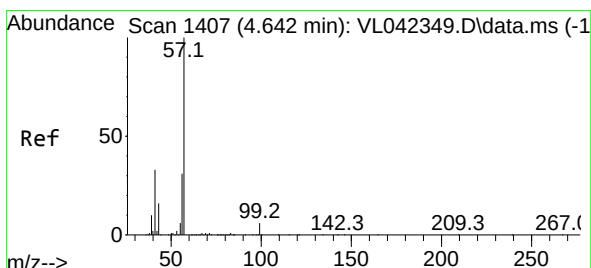
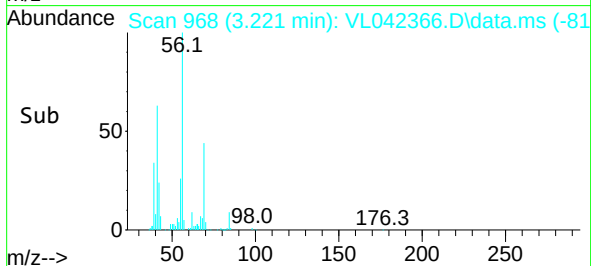
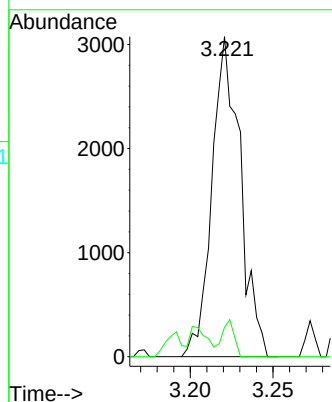
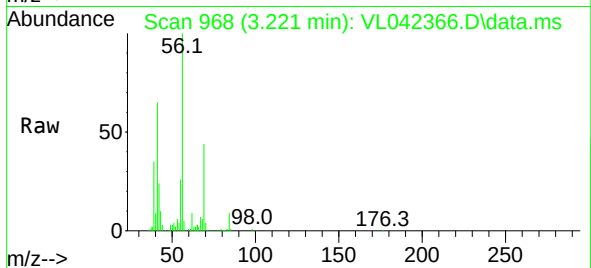
98 15.0 5.1 7.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#44

2,2,4-Trimethylpentane

Concen: 18.168 ppbv

RT: 4.642 min Scan# 1407

Delta R.T. 0.000 min

Lab File: VL042366.D

Acq: 17 Apr 2025 20:05

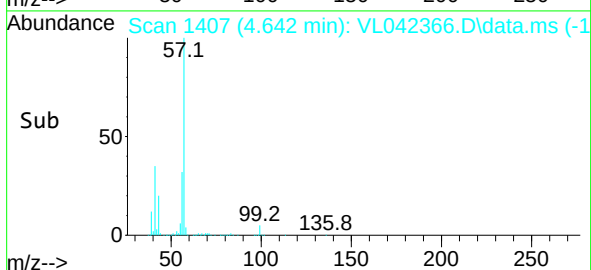
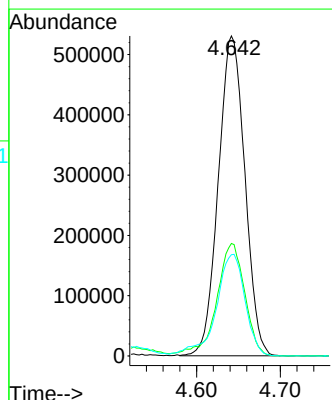
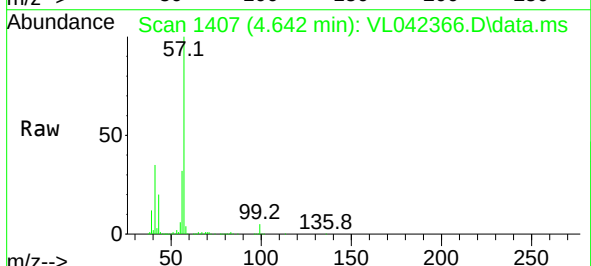
Tgt Ion: 57 Resp: 1167050

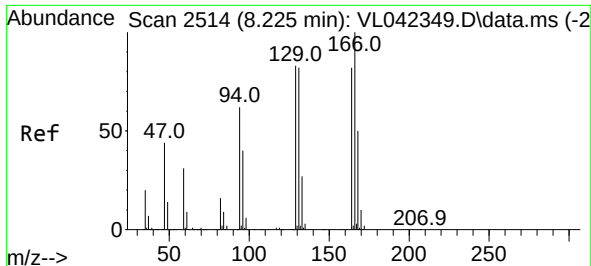
Ion Ratio Lower Upper

57 100

41 37.2 27.2 40.8

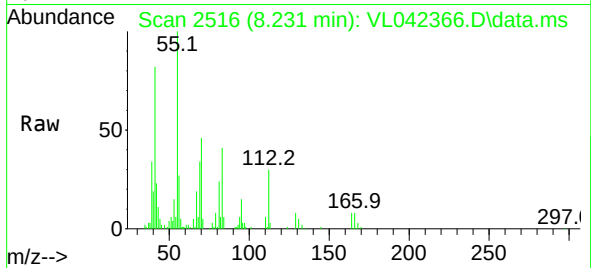
56 34.9 25.7 38.5





#52
Tetrachloroethene
Concen: 0.103 ppbv m
RT: 8.231 min Scan# 2116
Delta R.T. 0.006 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

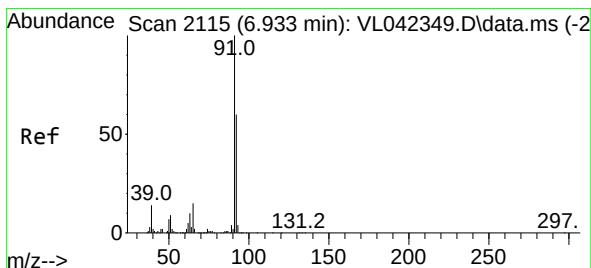
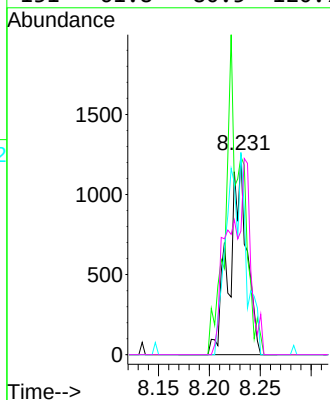
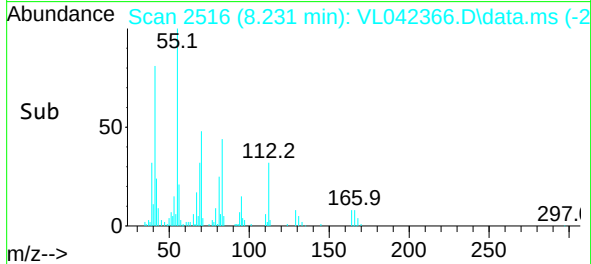
Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025



Tgt Ion:164 Resp: 147
Ion Ratio Lower Upper
164 100
166 99.0 98.2 147.2
129 101.0 81.8 122.8
131 61.8 80.5 120.7#

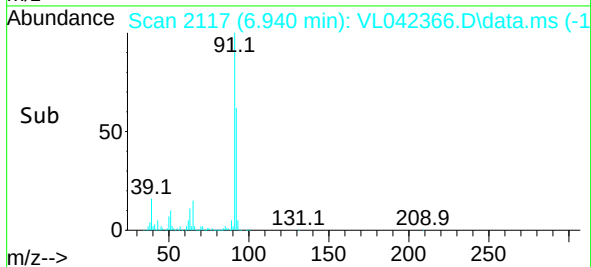
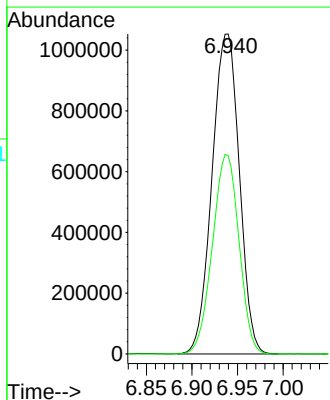
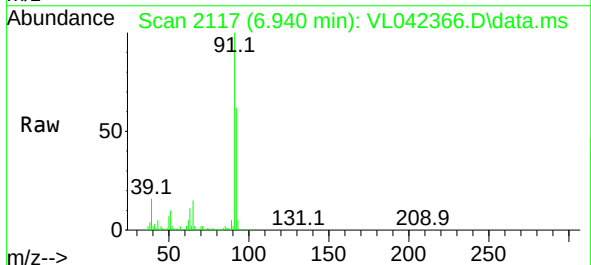
Manual Integrations
APPROVED

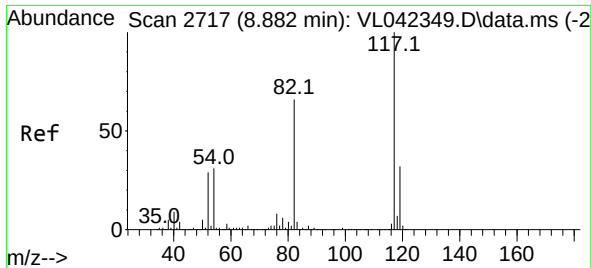
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#53
Toluene
Concen: 49.165 ppbv
RT: 6.940 min Scan# 2117
Delta R.T. 0.006 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

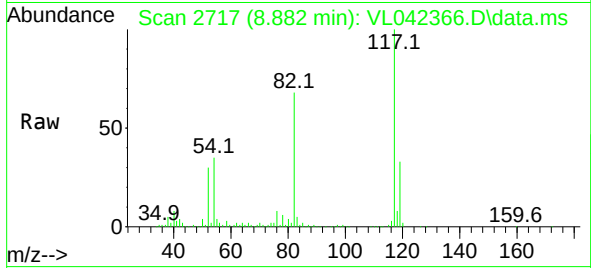
Tgt Ion: 91 Resp: 2194341
Ion Ratio Lower Upper
91 100
92 60.7 48.2 72.4





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2717
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

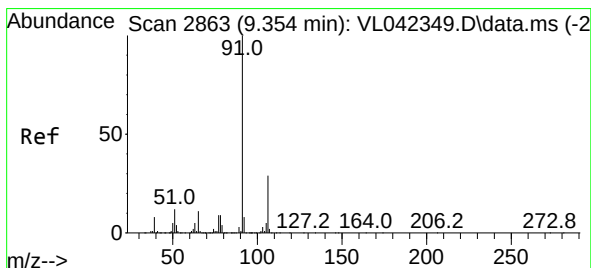
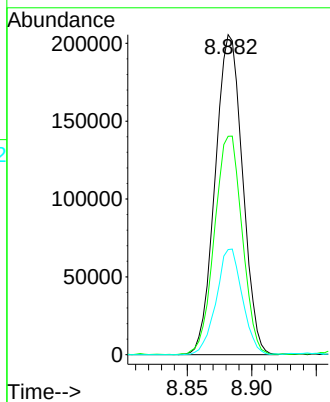
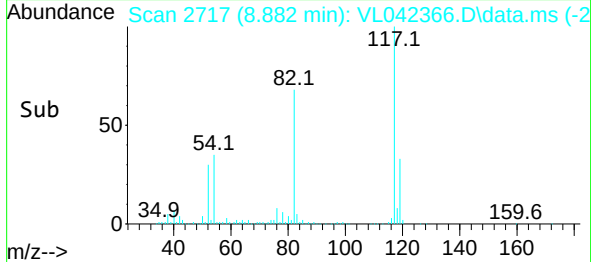
Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025



Tgt Ion:117 Resp: 30340
Ion Ratio Lower Upper
117 100
82 69.2 57.8 86.6
119 31.6 25.2 37.8

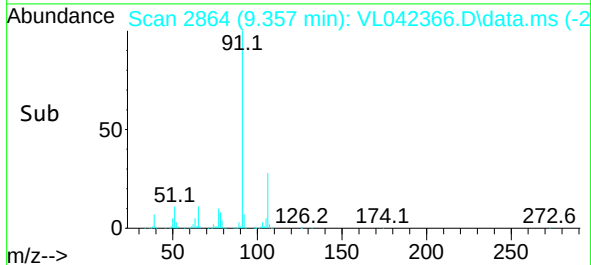
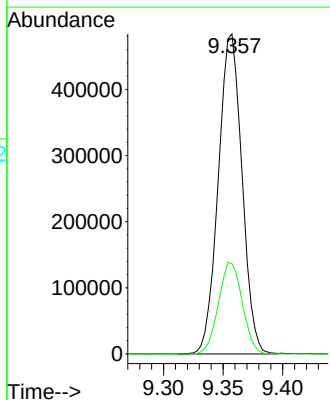
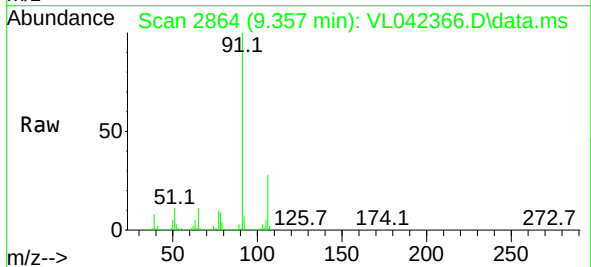
Manual Integrations
APPROVED

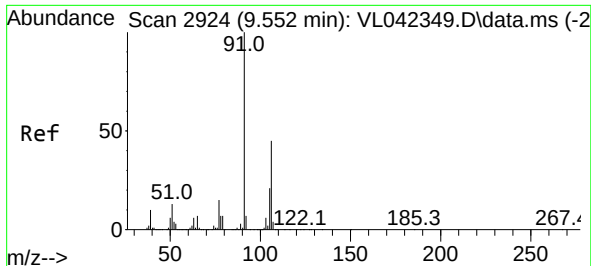
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#58
Ethyl Benzene
Concen: 11.113 ppbv
RT: 9.357 min Scan# 2864
Delta R.T. 0.003 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion: 91 Resp: 668072
Ion Ratio Lower Upper
91 100
106 28.3 23.0 34.4





#59

m/p-Xylene

Concen: 38.435 ppbv

RT: 9.535 min Scan# 2919

Delta R.T. -0.016 min

Lab File: VL042366.D

Acq: 17 Apr 2025 20:05

Instrument :

MSVOA_L

ClientSampleId :

IA-DUP-3-03312025

Tgt Ion: 91 Resp: 186124

Ion Ratio Lower Upper

91 100

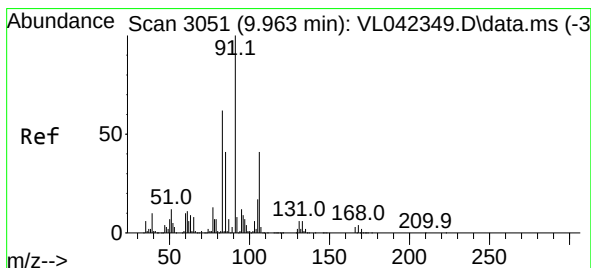
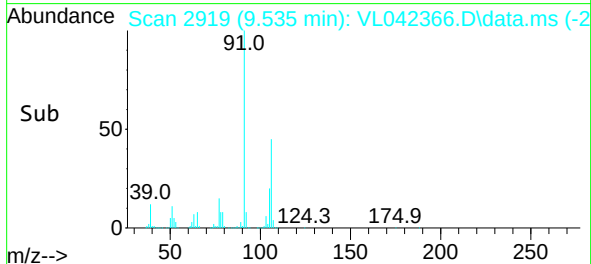
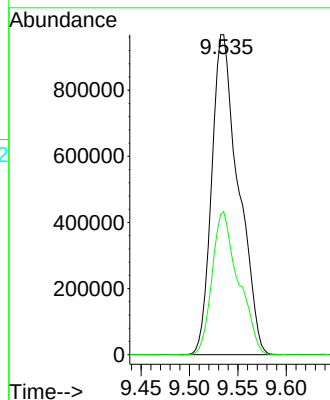
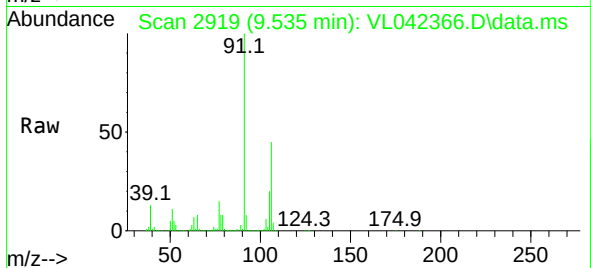
106 44.0 35.4 53.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#60

o-Xylene

Concen: 15.456 ppbv

RT: 9.966 min Scan# 3052

Delta R.T. 0.003 min

Lab File: VL042366.D

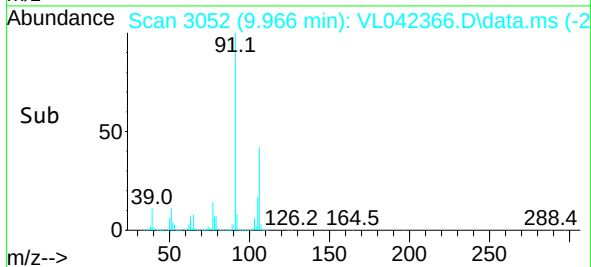
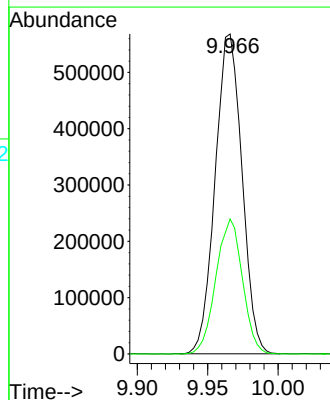
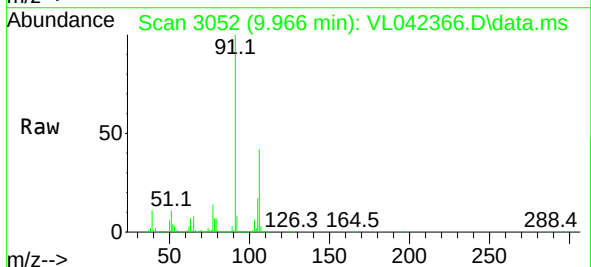
Acq: 17 Apr 2025 20:05

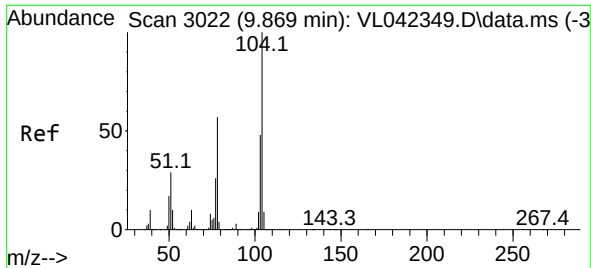
Tgt Ion: 91 Resp: 753743

Ion Ratio Lower Upper

91 100

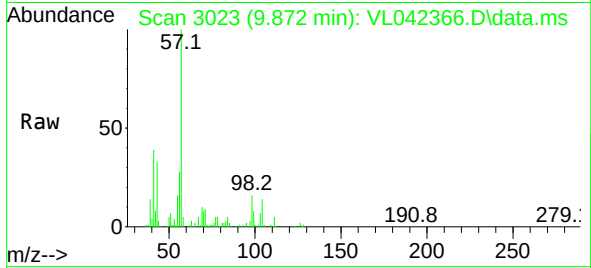
106 41.7 21.1 63.4





#61
Styrene
Concen: 0.351 ppbv
RT: 9.872 min Scan# 3022
Delta R.T. 0.003 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

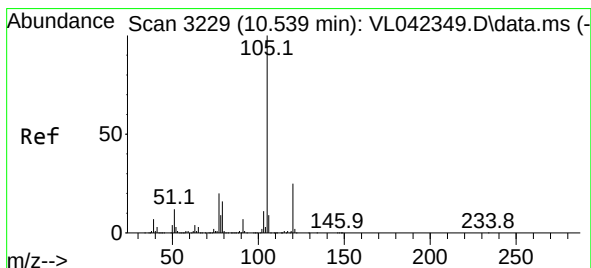
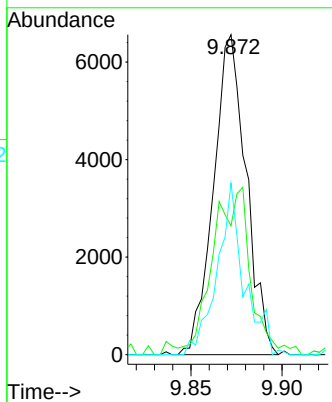
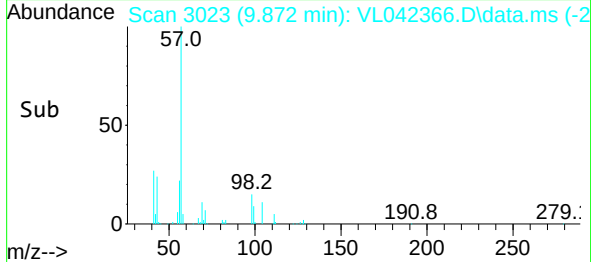
Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025



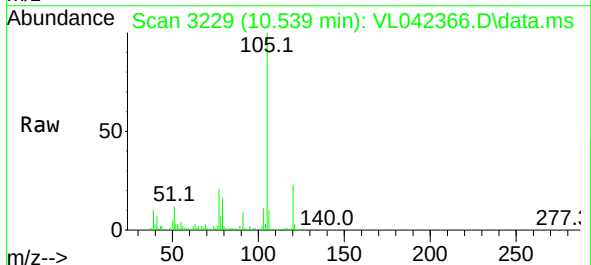
Tgt Ion:104 Resp: 8179
Ion Ratio Lower Upper
104 100
78 64.5 44.6 66.8
103 44.3 37.4 56.0

Manual Integrations
APPROVED

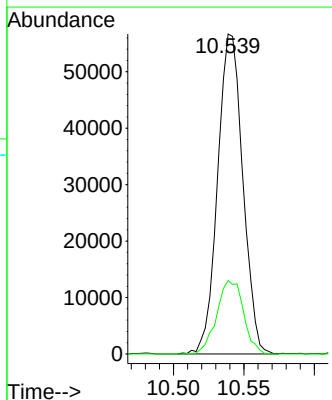
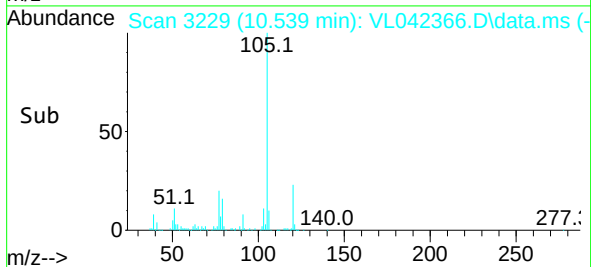
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

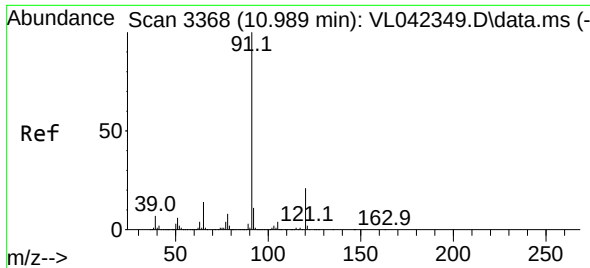


#62
Isopropylbenzene
Concen: 0.987 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05



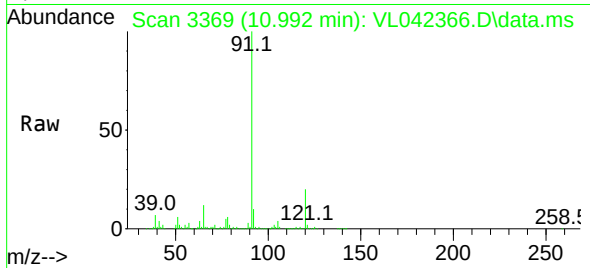
Tgt Ion:105 Resp: 70653
Ion Ratio Lower Upper
105 100
120 24.4 19.8 29.8





#64
n-propylbenzene
Concen: 3.324 ppbv
RT: 10.992 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

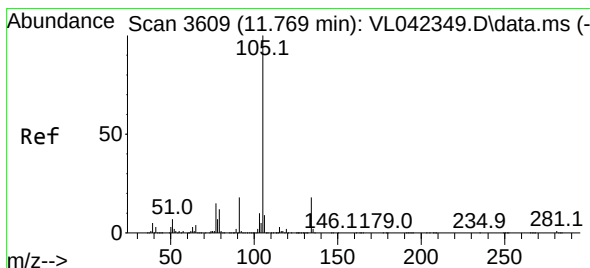
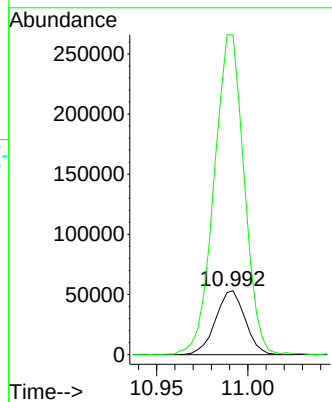
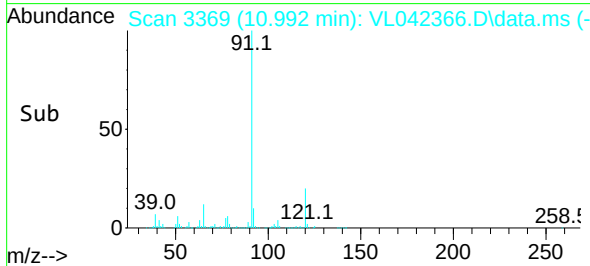
Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025



Tgt Ion:120 Resp: 59824
Ion Ratio Lower Upper
120 100
91 511.6 392.4 588.6

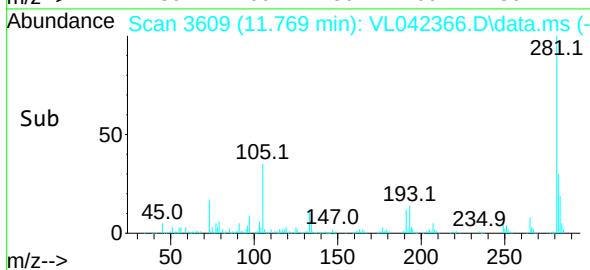
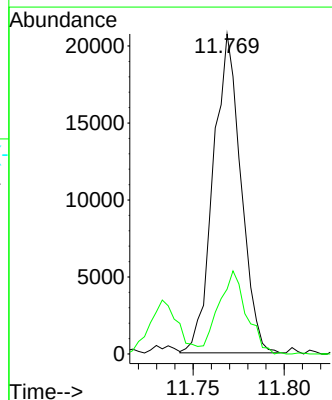
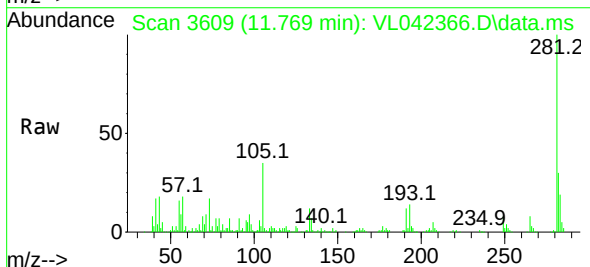
Manual Integrations
APPROVED

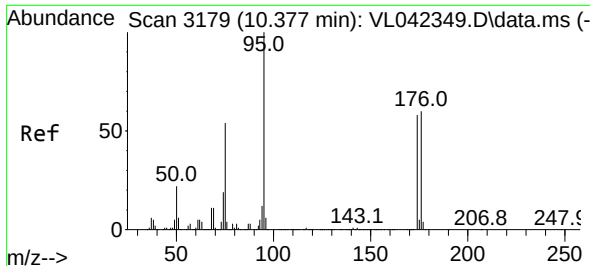
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#67
sec-Butylbenzene
Concen: 0.239 ppbv
RT: 11.769 min Scan# 3609
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

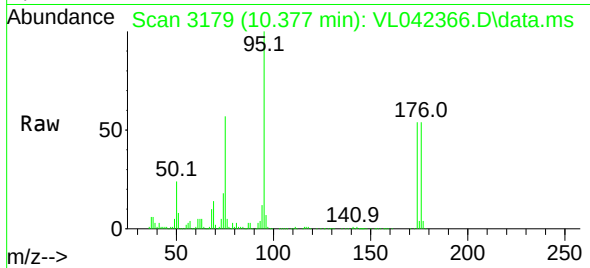
Tgt Ion:105 Resp: 21870
Ion Ratio Lower Upper
105 100
134 26.0 14.6 21.8#





#68
1-Bromo-4-Fluorobenzene
Concen: 10.136 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

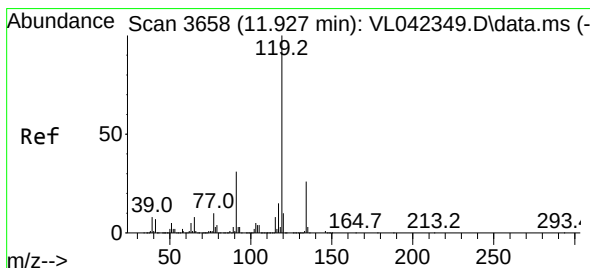
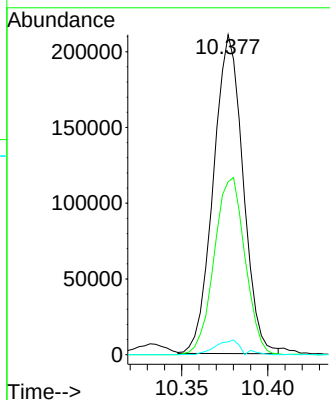
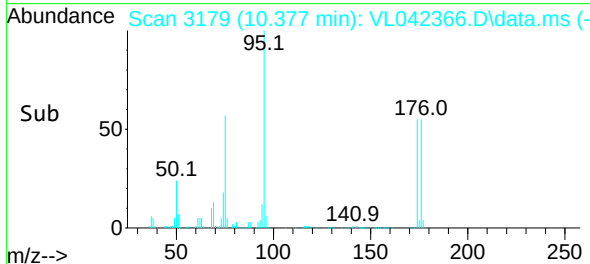
Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025



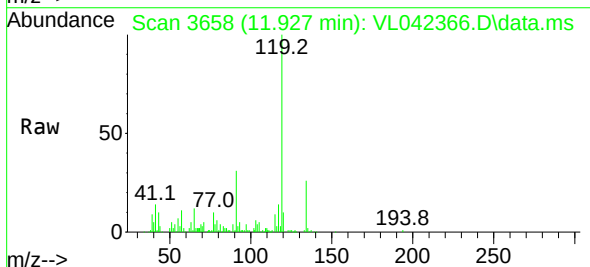
Tgt Ion: 95 Resp: 25270
Ion Ratio Lower Upper
95 100
174 57.6 48.5 72.7
175 4.0 3.7 5.5

Manual Integrations
APPROVED

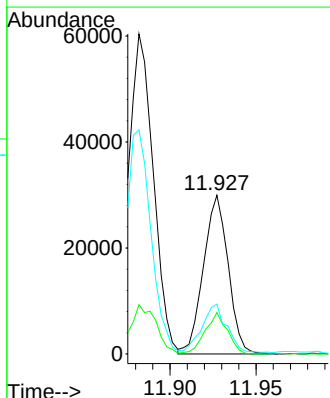
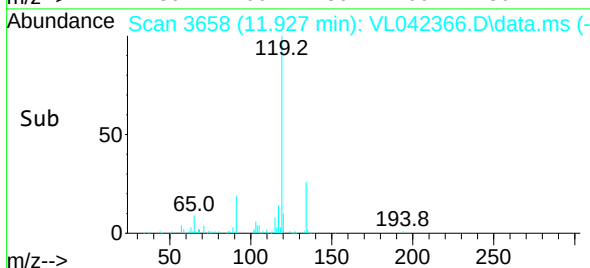
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

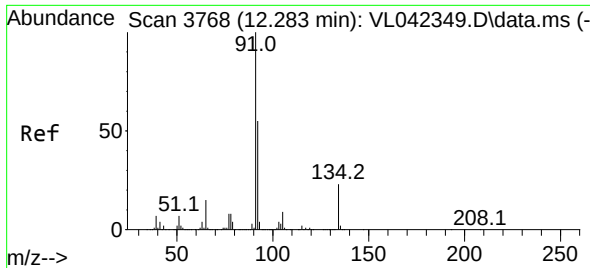


#69
p-Isopropyltoluene
Concen: 0.377 ppbv
RT: 11.927 min Scan# 3658
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05



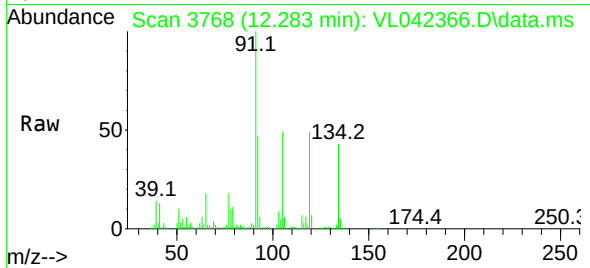
Tgt Ion:119 Resp: 29958
Ion Ratio Lower Upper
119 100
134 23.7 20.0 30.0
91 29.2 24.4 36.6





#70
n-Butylbenzene
Concen: 1.289 ppbv m
RT: 12.283 min Scan# 3768
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

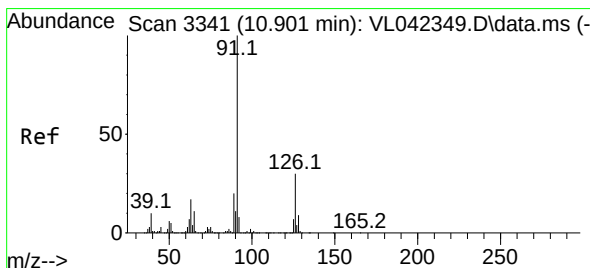
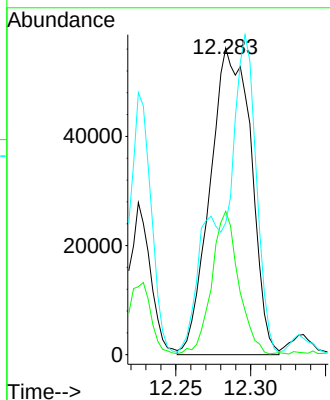
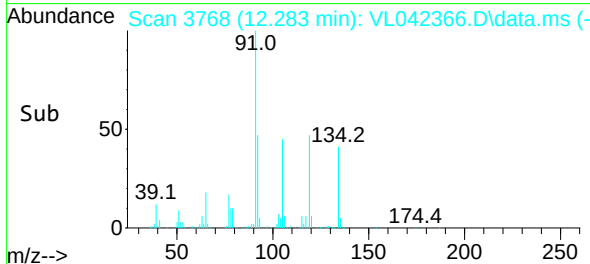
Instrument : MSVOA_L
ClientSampleId : IA-DUP-3-03312025



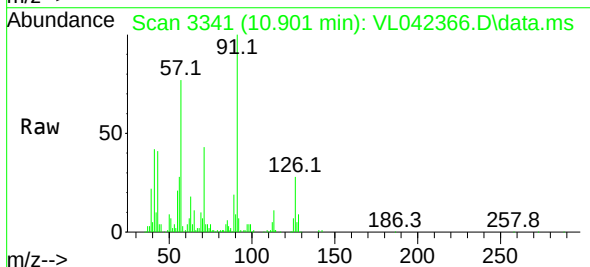
Tgt Ion: 91 Resp: 106749
Ion Ratio Lower Upper
91 100
92 31.7 44.2 66.4
134 0.0 18.2 27.4

Manual Integrations
APPROVED

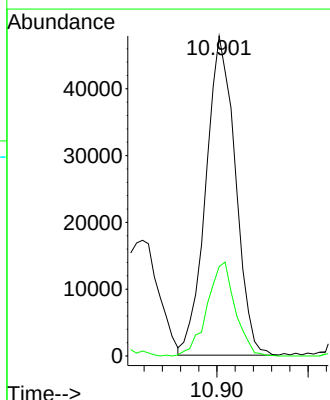
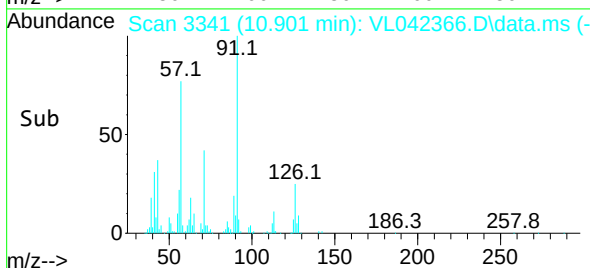
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

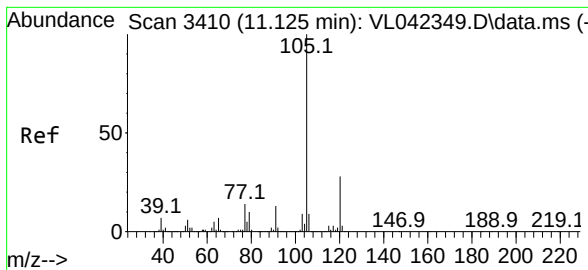


#71
2-Chlorotoluene
Concen: 0.958 ppbv
RT: 10.901 min Scan# 3341
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05



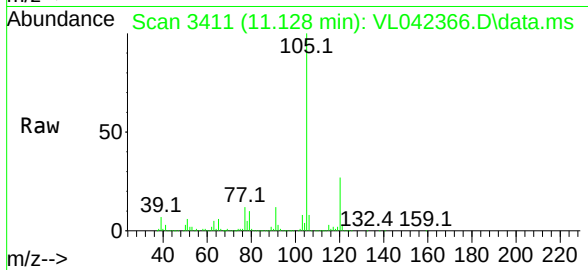
Tgt Ion: 91 Resp: 53769
Ion Ratio Lower Upper
91 100
126 28.0 11.4 45.4





#72
4-Ethyltoluene
Concen: 5.685 ppbv
RT: 11.128 min Scan# 3410
Delta R.T. 0.003 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

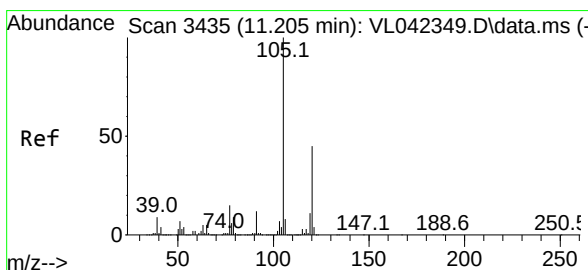
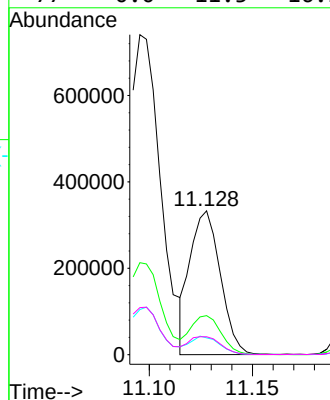
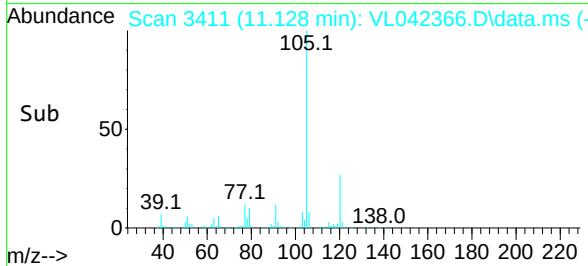
Instrument : MSVOA_L
ClientSampleId : IA-DUP-3-03312025



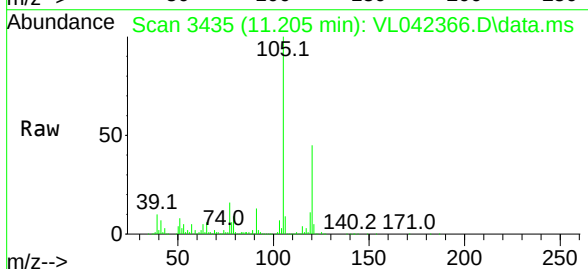
Tgt Ion:105 Resp: 338919
Ion Ratio Lower Upper
105 100
120 0.0 23.2 34.8
91 0.0 10.4 15.6
77 0.0 11.3 16.9

Manual Integrations
APPROVED

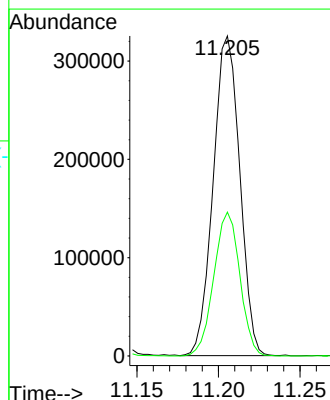
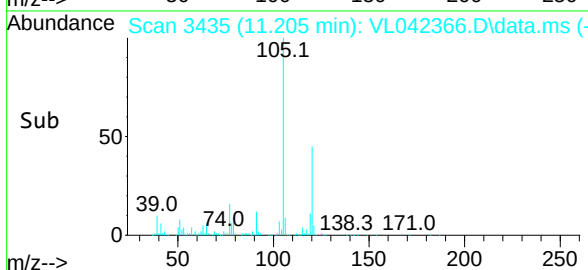
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

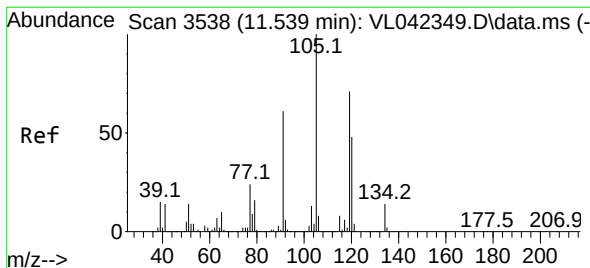


#73
1,3,5-Trimethylbenzene
Concen: 7.008 ppbv
RT: 11.205 min Scan# 3435
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05



Tgt Ion:105 Resp: 368859
Ion Ratio Lower Upper
105 100
120 45.0 35.6 53.4





#74

1,2,4-Trimethylbenzene

Concen: 19.268 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. 0.000 min

Lab File: VL042366.D

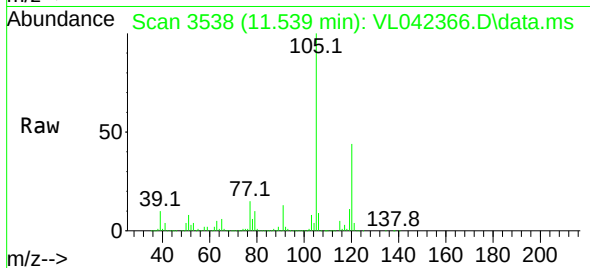
Acq: 17 Apr 2025 20:05

Instrument :

MSVOA_L

ClientSampleId :

IA-DUP-3-03312025



Tgt Ion:105 Resp: 118451

Ion Ratio Lower Upper

105 100

120 43.8 38.1 57.1

91 13.0 48.8 73.2

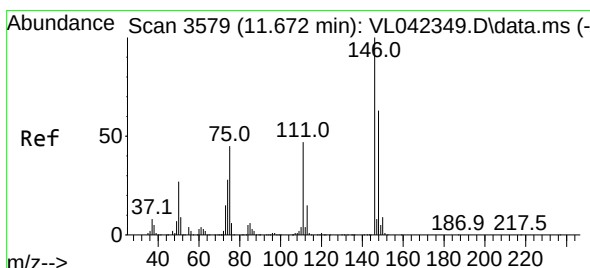
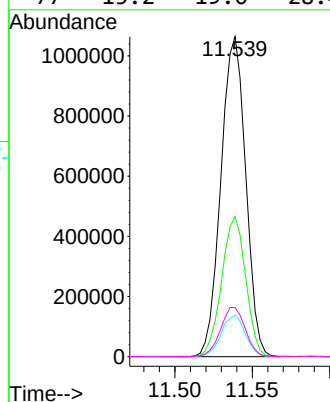
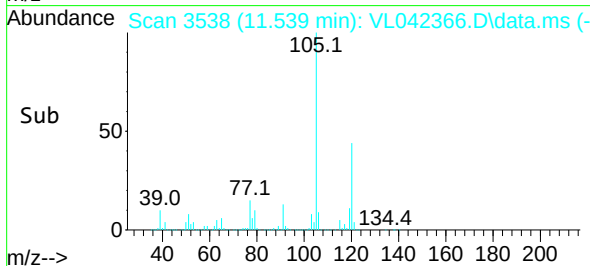
77 15.2 19.0 28.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#76

1,4-Dichlorobenzene

Concen: 0.257 ppbv

RT: 11.672 min Scan# 3579

Delta R.T. 0.000 min

Lab File: VL042366.D

Acq: 17 Apr 2025 20:05

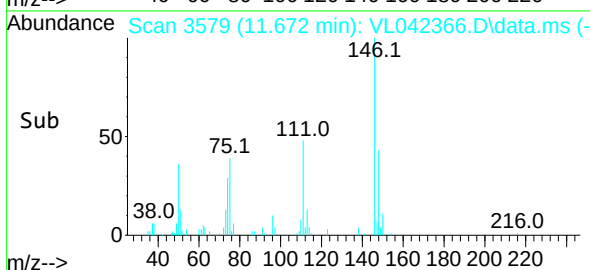
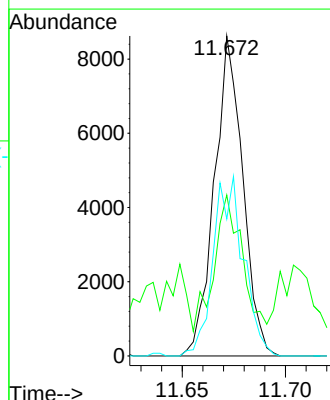
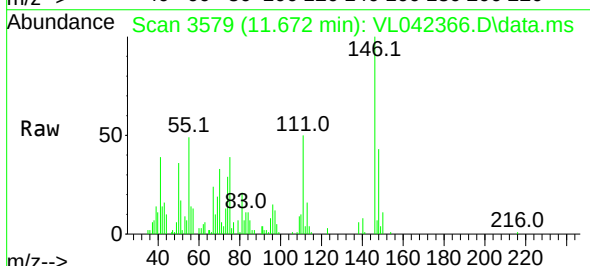
Tgt Ion:146 Resp: 8250

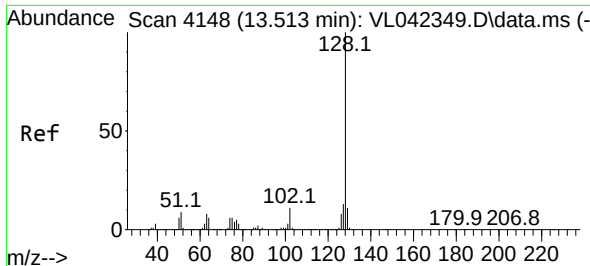
Ion Ratio Lower Upper

146 100

111 144.4 24.2 72.6

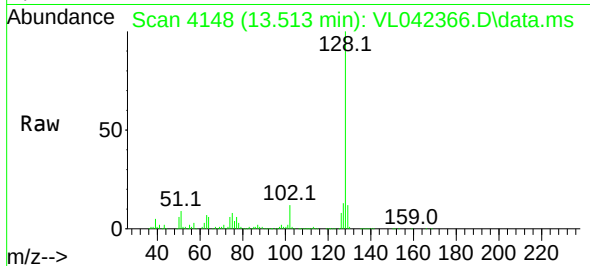
148 59.7 32.1 96.5





#79
Naphthalene
Concen: 2.334 ppbv
RT: 13.513 min Scan# 4148
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

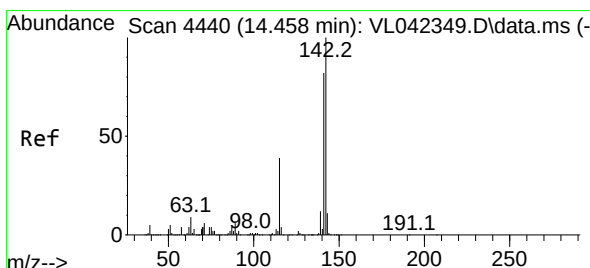
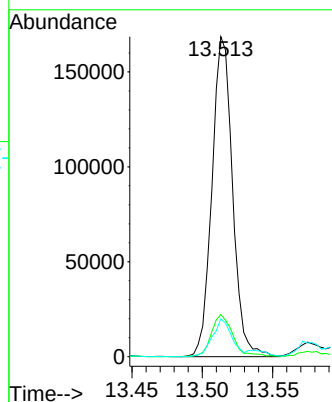
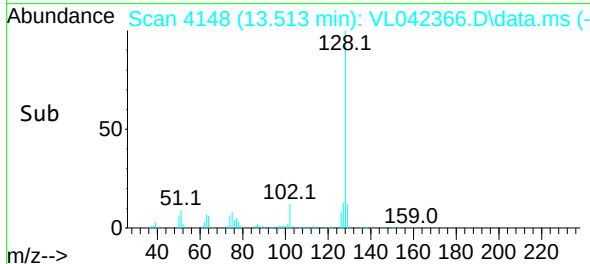
Instrument : MSVOA_L
ClientSampleId : IA-DUP-3-03312025



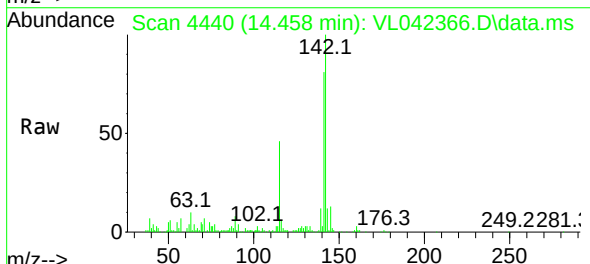
Tgt Ion:128 Resp: 171574
Ion Ratio Lower Upper
128 100
127 13.1 10.6 15.8
129 11.8 8.6 12.8

Manual Integrations
APPROVED

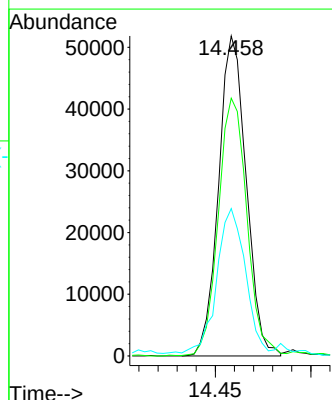
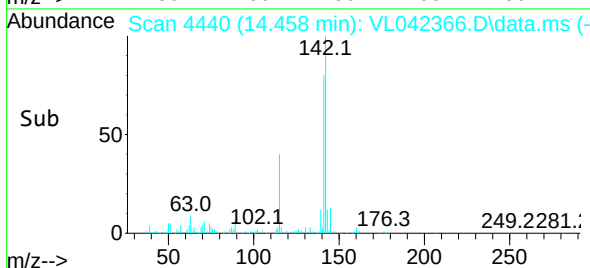
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#80
Naphthalene,2-methyl-
Concen: 1.241 ppbv m
RT: 14.458 min Scan# 4440
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05



Tgt Ion:142 Resp: 52010
Ion Ratio Lower Upper
142 100
141 42.5 66.8 100.2#
115 21.7 33.4 50.2#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042366.D
 Acq On : 17 Apr 2025 20:05
 Operator : SY/MD
 Sample : Q1726-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-DUP-3-03312025

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: VL042366.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	4273917	4918873	70.69%	5.781%
2	1.466	423	426	429	rVV	225649	112624	1.62%	0.132%
3	1.489	429	433	439	rVV2	329795	179908	2.59%	0.211%
4	1.525	441	444	451	rVV	847087	458956	6.60%	0.539%
5	1.560	451	455	459	rVB	692832	366419	5.27%	0.431%
6	1.622	470	474	478	rVB	701078	361441	5.19%	0.425%
7	1.722	500	505	511	rVB	1080218	643731	9.25%	0.757%
8	1.835	535	540	549	rBV	7956048	6957981	100.00%	8.177%
9	1.887	549	556	561	rBV	773930	504418	7.25%	0.593%
10	2.059	599	609	614	rBV3	159224	160322	2.30%	0.188%
11	2.272	667	675	682	rBV	197217	166359	2.39%	0.196%
12	2.473	731	737	744	rVB	238810	246566	3.54%	0.290%
13	2.625	775	784	792	rVB	183735	198374	2.85%	0.233%
14	2.787	827	834	840	rBV	439717	459034	6.60%	0.539%
15	2.826	840	846	859	rVB	388089	461146	6.63%	0.542%
16	3.230	963	971	979	rVV	228174	294817	4.24%	0.346%
17	3.282	979	987	999	rVB4	161985	237242	3.41%	0.279%
18	3.658	1086	1103	1108	rBV4	113213	263045	3.78%	0.309%
19	3.690	1108	1113	1125	rVV2	103238	157277	2.26%	0.185%
20	3.768	1125	1137	1151	rVB6	44339	95272	1.37%	0.112%
21	3.858	1151	1165	1179	rBV2	115375	212676	3.06%	0.250%
22	3.959	1184	1196	1208	rBV	573371	939304	13.50%	1.104%
23	4.053	1208	1225	1233	rVV2	510697	974029	14.00%	1.145%
24	4.098	1233	1239	1252	rVB2	223523	380894	5.47%	0.448%
25	4.269	1281	1292	1309	rVB	551741	1051997	15.12%	1.236%
26	4.441	1332	1345	1357	rBV2	111404	217711	3.13%	0.256%
27	4.525	1357	1371	1384	rVV6	106590	322288	4.63%	0.379%
28	4.642	1384	1407	1426	rVB	1233969	2926568	42.06%	3.439%
29	4.926	1478	1495	1500	rBV6	67017	158443	2.28%	0.186%
30	4.981	1500	1512	1524	rVV2	490875	1085234	15.60%	1.275%
31	5.046	1524	1532	1552	rVB3	64365	197243	2.83%	0.232%
32	5.302	1594	1611	1632	rBV6	81708	217553	3.13%	0.256%
33	5.668	1701	1724	1743	rVB5	306469	873147	12.55%	1.026%
34	5.791	1743	1762	1780	rBV7	47859	150570	2.16%	0.177%
35	6.134	1851	1868	1876	rBV7	75382	192651	2.77%	0.226%
36	6.205	1876	1890	1901	rVV4	197507	611758	8.79%	0.719%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042366.D
 Acq On : 17 Apr 2025 20:05
 Operator : SY/MD
 Sample : Q1726-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-DUP-3-03312025

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	6.270	1901	1910	1928	rVB3	217072	564202	8.11%	0.663%
38	6.470	1956	1972	1983	rBV	66330	160944	2.31%	0.189%
39	6.732	2035	2053	2067	rBV10	47942	149933	2.15%	0.176%
40	6.830	2067	2083	2098	rVV4	639322	1573919	22.62%	1.850%
41	6.940	2098	2117	2137	rVB2	2998118	6943440	99.79%	8.160%
42	7.186	2176	2193	2209	rBV3	249292	569765	8.19%	0.670%
43	7.276	2213	2221	2235	rVB5	60019	124694	1.79%	0.147%
44	7.380	2238	2253	2261	rBV2	379940	752084	10.81%	0.884%
45	7.422	2261	2266	2288	rVV6	147628	354711	5.10%	0.417%
46	7.529	2288	2299	2309	rVV5	40621	93555	1.34%	0.110%
47	7.600	2309	2321	2340	rVV5	390713	1189694	17.10%	1.398%
48	7.684	2340	2347	2359	rVB10	114714	236925	3.41%	0.278%
49	7.898	2400	2413	2430	rBV2	349493	811231	11.66%	0.953%
50	7.982	2430	2439	2444	rBV5	55874	85919	1.23%	0.101%
51	8.131	2475	2485	2504	rVB6	152710	330920	4.76%	0.389%
52	8.228	2504	2515	2525	rVV4	103673	218981	3.15%	0.257%
53	8.302	2525	2538	2555	rVB4	619087	1215089	17.46%	1.428%
54	8.438	2571	2580	2586	rBV3	82079	118147	1.70%	0.139%
55	8.691	2649	2658	2665	rBV4	68364	99975	1.44%	0.117%
56	8.882	2704	2717	2727	rBV	769268	1256707	18.06%	1.477%
57	8.943	2727	2736	2739	rBV2	62326	89143	1.28%	0.105%
58	8.982	2739	2748	2763	rVB6	221555	534435	7.68%	0.628%
59	9.063	2763	2773	2779	rBV8	53569	104912	1.51%	0.123%
60	9.098	2779	2784	2791	rVV3	83011	114638	1.65%	0.135%
61	9.147	2791	2799	2812	rVV2	178994	281034	4.04%	0.330%
62	9.357	2853	2864	2878	rBV	1149564	1727489	24.83%	2.030%
63	9.419	2878	2883	2891	rVB4	88738	126296	1.82%	0.148%
64	9.532	2908	2918	2937	rVB	2845585	5528502	79.46%	6.497%
65	9.658	2949	2957	2966	rBV7	57076	101214	1.45%	0.119%
66	9.733	2966	2980	2996	rVB4	324338	727659	10.46%	0.855%
67	9.859	3004	3019	3028	rBV2	334657	543602	7.81%	0.639%
68	9.966	3037	3052	3061	rBV	1615901	2257436	32.44%	2.653%
69	10.011	3061	3066	3074	rVB3	77849	110416	1.59%	0.130%
70	10.102	3074	3094	3100	rBV6	174090	386032	5.55%	0.454%
71	10.141	3100	3106	3115	rVB9	81857	140312	2.02%	0.165%
72	10.354	3161	3172	3175	rBV	543891	721930	10.38%	0.848%
73	10.377	3175	3179	3190	rVV2	959098	1136272	16.33%	1.335%
74	10.432	3190	3196	3202	rVB5	88616	113443	1.63%	0.133%
75	10.539	3222	3229	3237	rBV2	160247	217057	3.12%	0.255%
76	10.772	3290	3301	3305	rBV4	102483	163943	2.36%	0.193%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042366.D
 Acq On : 17 Apr 2025 20:05
 Operator : SY/MD
 Sample : Q1726-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-DUP-3-03312025

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	10.856	3321	3327	3334	rVB2	225727	274144	3.94%	0.322%
78	10.901	3334	3341	3352	rVB2	280492	340118	4.89%	0.400%
79	10.989	3352	3368	3383	rVB	584940	825724	11.87%	0.970%
80	11.095	3389	3401	3407	rBV	2007504	2351995	33.80%	2.764%
81	11.128	3407	3411	3420	rVB	833816	865335	12.44%	1.017%
82	11.205	3420	3435	3443	rBV	1040683	1235929	17.76%	1.452%
83	11.257	3443	3451	3454	rBV	90982	99071	1.42%	0.116%
84	11.283	3454	3459	3463	rVV	175614	202325	2.91%	0.238%
85	11.316	3463	3469	3471	rVV2	319503	359765	5.17%	0.423%
86	11.341	3471	3477	3490	rVB	716981	874640	12.57%	1.028%
87	11.403	3490	3496	3501	rBV	199817	237144	3.41%	0.279%
88	11.426	3501	3503	3512	rVB6	85530	88868	1.28%	0.104%
89	11.539	3529	3538	3547	rBV	3188160	3594855	51.67%	4.225%
90	11.591	3550	3554	3565	rVB7	61654	97662	1.40%	0.115%
91	11.752	3591	3604	3608	rBV3	410237	558450	8.03%	0.656%
92	11.775	3608	3611	3625	rVB2	376577	416771	5.99%	0.490%
93	11.882	3636	3644	3652	rVB2	903128	971363	13.96%	1.142%
94	11.927	3652	3658	3661	rBV	85095	86558	1.24%	0.102%
95	12.021	3678	3687	3691	rBV	517725	614925	8.84%	0.723%
96	12.044	3691	3694	3701	rVV3	292833	277724	3.99%	0.326%
97	12.086	3701	3707	3717	rVB4	147244	213451	3.07%	0.251%
98	12.170	3727	3733	3737	rBV2	124619	137282	1.97%	0.161%
99	12.196	3737	3741	3745	rVV2	223721	223286	3.21%	0.262%
100	12.225	3745	3750	3757	rVV2	660717	680773	9.78%	0.800%
101	12.270	3757	3764	3767	rVV2	302735	329270	4.73%	0.387%
102	12.296	3767	3772	3778	rVB2	548218	588368	8.46%	0.691%
103	12.406	3799	3806	3811	rBV2	207202	231339	3.32%	0.272%
104	12.442	3811	3817	3823	rVV	189981	172467	2.48%	0.203%
105	12.507	3831	3837	3840	rBV2	423580	459637	6.61%	0.540%
106	12.526	3840	3843	3846	rVV	330607	308234	4.43%	0.362%
107	12.545	3846	3849	3856	rVB3	260269	243481	3.50%	0.286%
108	12.591	3856	3863	3876	rVB2	696154	953656	13.71%	1.121%
109	12.655	3876	3883	3894	rVB6	138890	230284	3.31%	0.271%
110	12.798	3922	3927	3932	rVV	227272	216628	3.11%	0.255%
111	12.827	3932	3936	3942	rVB	300074	269521	3.87%	0.317%
112	12.918	3958	3964	3969	rBV	358184	370467	5.32%	0.435%
113	12.953	3969	3975	3984	rVV	501034	516611	7.42%	0.607%
114	13.008	3984	3992	4002	rVB7	69035	139260	2.00%	0.164%
115	13.102	4015	4021	4024	rBV3	123724	130173	1.87%	0.153%
116	13.128	4024	4029	4037	rVB2	365977	400056	5.75%	0.470%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042366.D
 Acq On : 17 Apr 2025 20:05
 Operator : SY/MD
 Sample : Q1726-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-DUP-3-03312025

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	13.170	4037	4042	4046	rBV4	113041	113607	1.63%	0.134%
118	13.228	4053	4060	4064	rBV	427942	456988	6.57%	0.537%
119	13.258	4064	4069	4075	rVV2	185664	238114	3.42%	0.280%
120	13.296	4075	4081	4086	rVB6	67360	78043	1.12%	0.092%
121	13.332	4086	4092	4101	rBV5	185144	263105	3.78%	0.309%
122	13.387	4101	4109	4116	rVB2	647632	741381	10.66%	0.871%
123	13.426	4116	4121	4124	rBV2	87292	84632	1.22%	0.099%
124	13.448	4124	4128	4135	rVB	104446	102780	1.48%	0.121%
125	13.513	4143	4148	4153	rBV	349060	316927	4.55%	0.372%
126	13.575	4161	4167	4170	rBV3	188520	191542	2.75%	0.225%
127	13.594	4170	4173	4178	rVB2	118865	104945	1.51%	0.123%
128	13.636	4178	4186	4189	rBV4	69828	97719	1.40%	0.115%
129	13.665	4189	4195	4206	rVB4	241611	349290	5.02%	0.410%
130	13.727	4206	4214	4219	rBV	198554	196347	2.82%	0.231%
131	13.753	4219	4222	4234	rVB3	74774	77841	1.12%	0.091%
132	13.979	4287	4292	4299	rVB5	80337	87459	1.26%	0.103%
133	14.112	4324	4333	4343	rVB	107251	156384	2.25%	0.184%
134	14.228	4361	4369	4373	rBV5	68875	89279	1.28%	0.105%
135	14.458	4432	4440	4446	rBV	212763	220684	3.17%	0.259%
136	14.523	4454	4460	4465	rBV2	107769	106298	1.53%	0.125%
137	14.588	4472	4480	4485	rBV	89551	97233	1.40%	0.114%

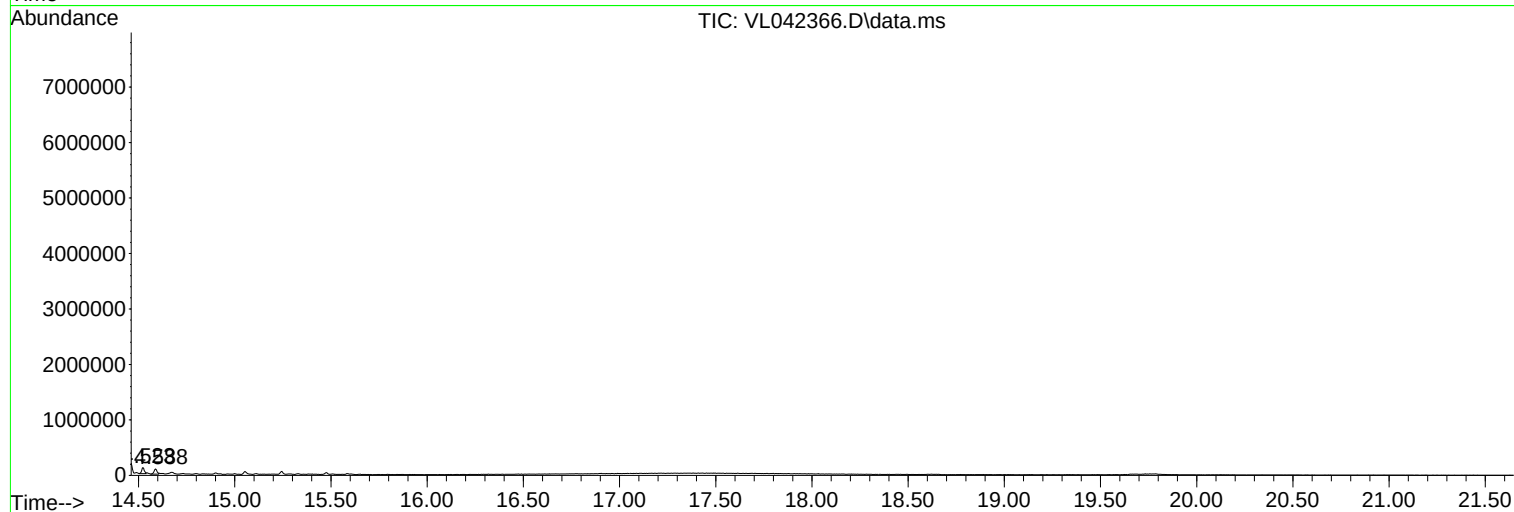
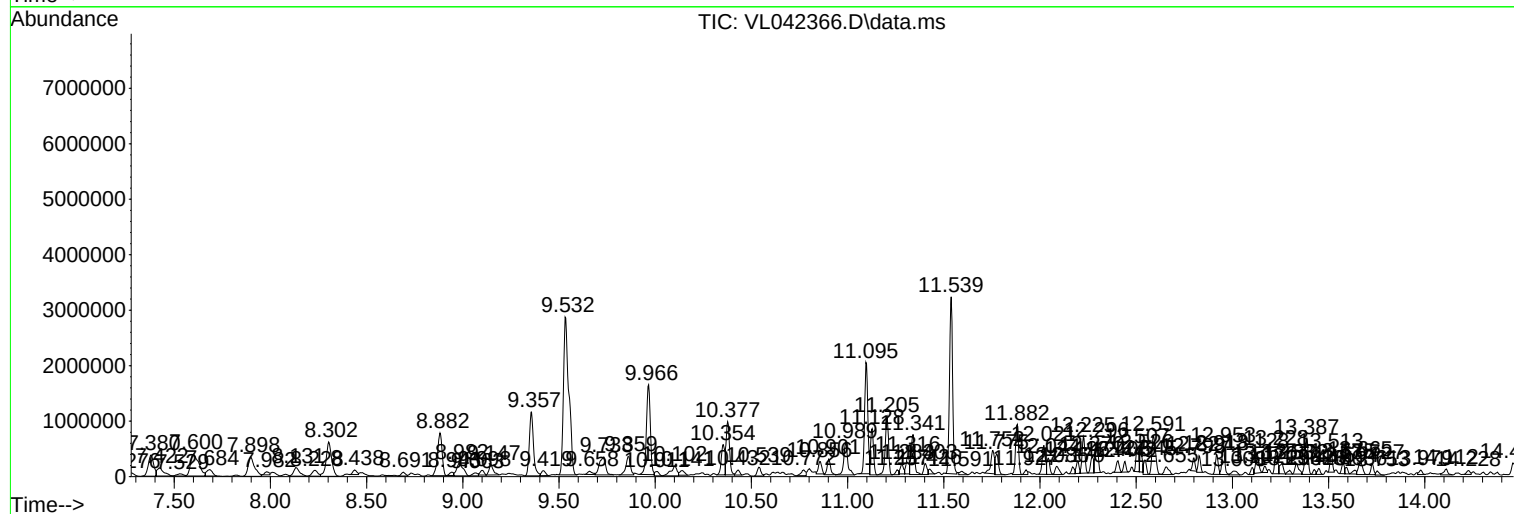
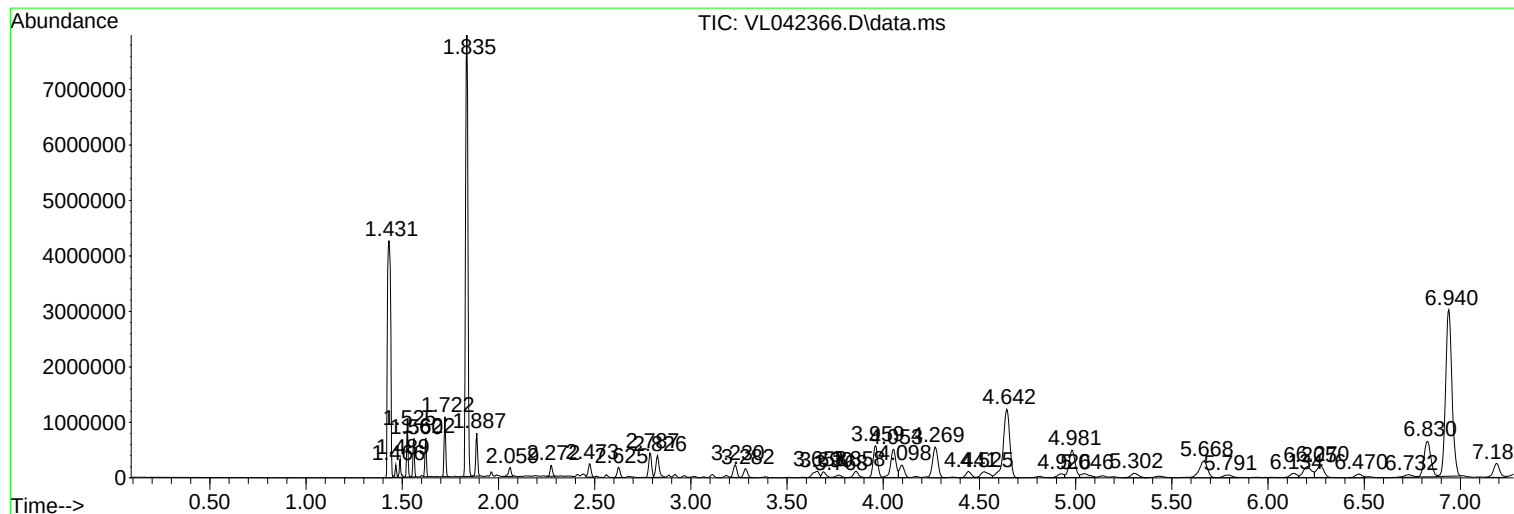
Sum of corrected areas: 85090679

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042366.D
Acq On : 17 Apr 2025 20:05
Operator : SY/MD
Sample : Q1726-01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

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 : VL042366.D
Acq On : 17 Apr 2025 20:05
Operator : SY/MD
Sample : Q1726-01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

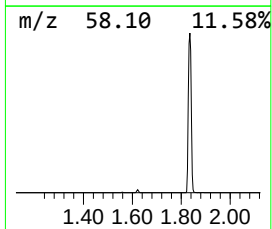
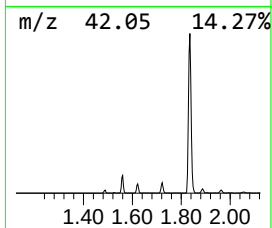
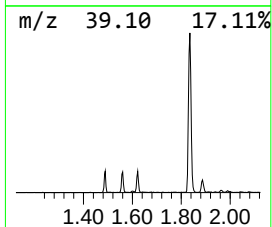
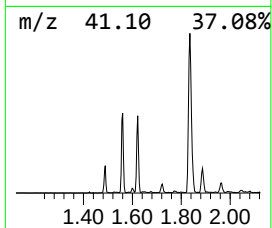
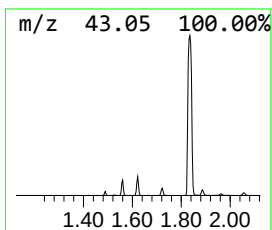
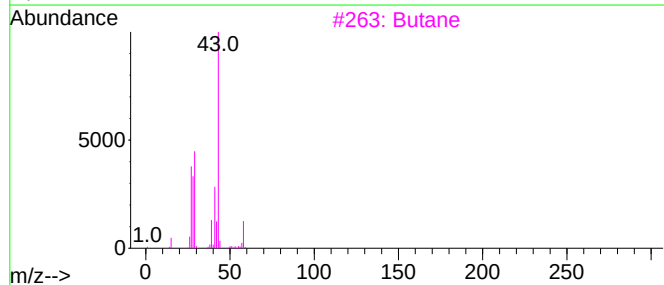
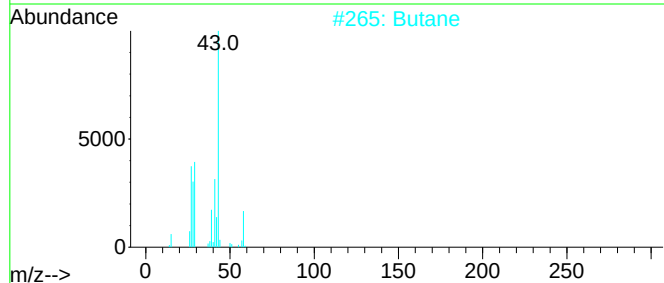
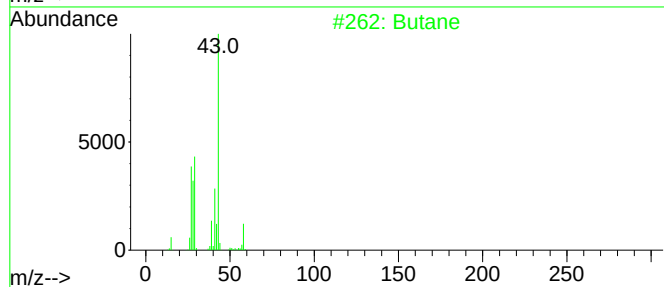
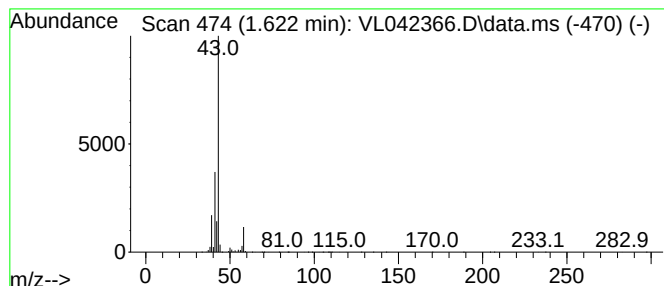
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 1 Butane Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.622	7.87 ppbv	361441	Bromochloromethane	2.787

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane			58	C4H10	000106-97-8	72
2	Butane			58	C4H10	000106-97-8	72
3	Butane			58	C4H10	000106-97-8	72
4	Butane			58	C4H10	000106-97-8	72
5	Isobutane			58	C4H10	000075-28-5	9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042366.D
Acq On : 17 Apr 2025 20:05
Operator : SY/MD
Sample : Q1726-01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

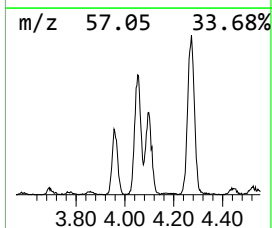
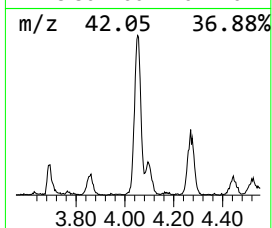
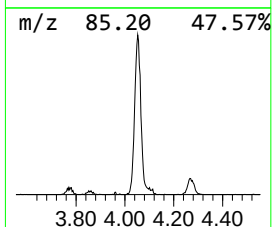
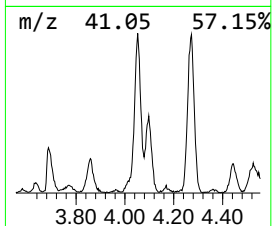
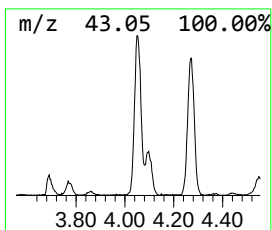
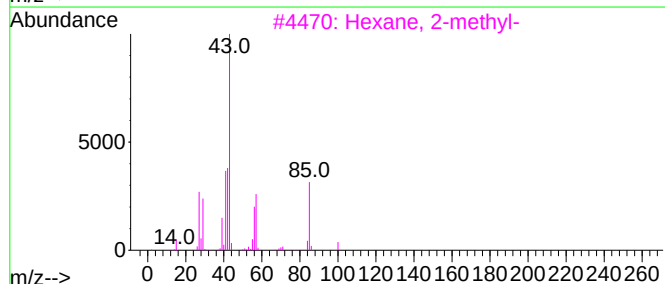
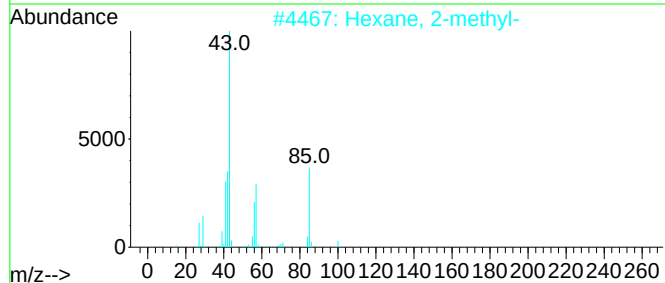
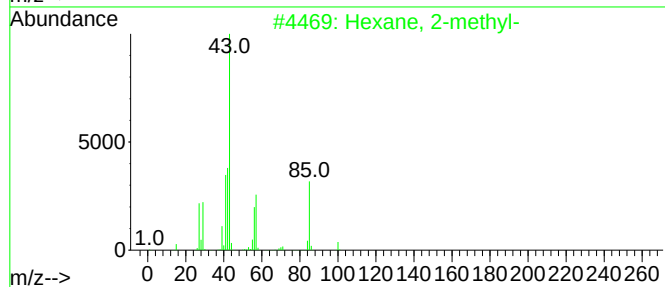
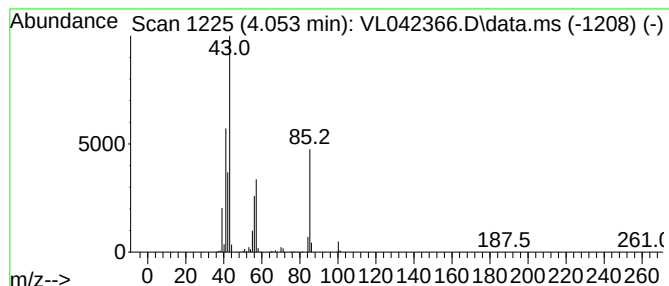
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.053	10.37 ppbv	974029	1,4-Difluorobenzene	3.959

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Hexane, 2-methyl-	100	C7H16	000591-76-4	90
2			Hexane, 2-methyl-	100	C7H16	000591-76-4	90
3			Hexane, 2-methyl-	100	C7H16	000591-76-4	83
4			Octane	114	C8H18	000111-65-9	59
5			Hexane, 1,1'-oxybis-	186	C12H26O	000112-58-3	50



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042366.D
Acq On : 17 Apr 2025 20:05
Operator : SY/MD
Sample : Q1726-01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

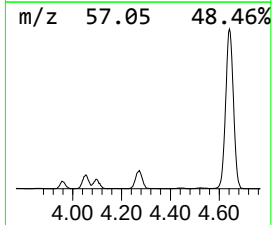
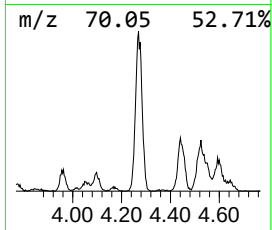
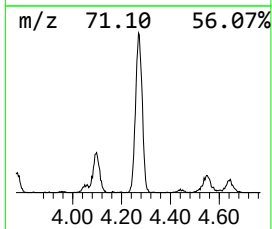
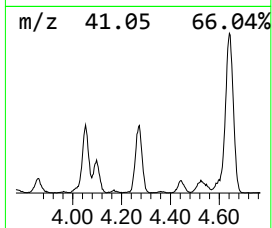
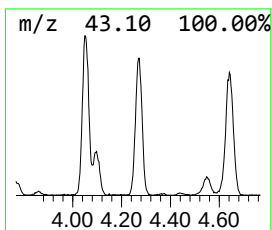
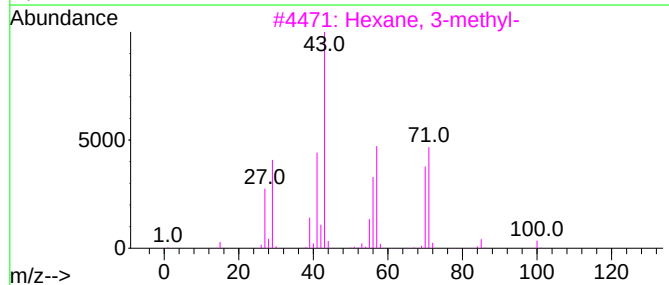
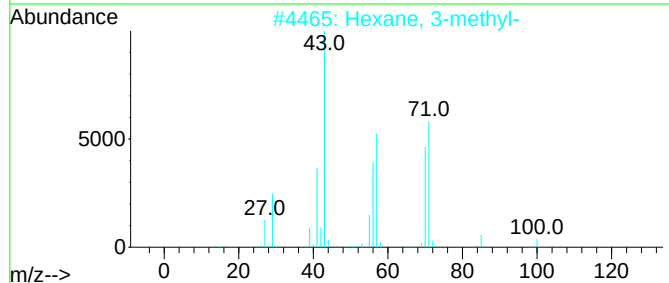
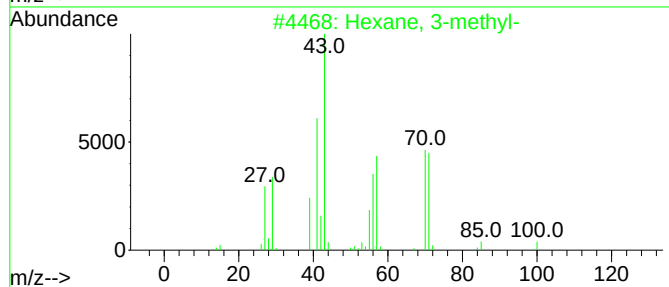
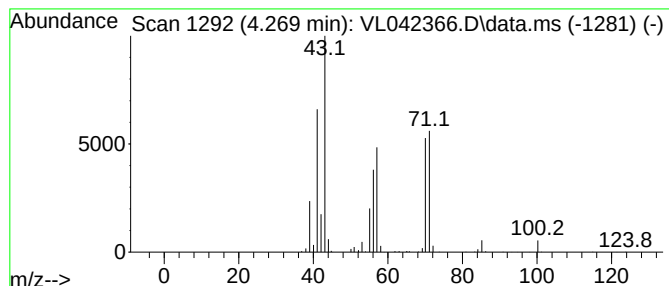
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.269	11.20 ppbv	1052000	1,4-Difluorobenzene	3.959

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Hexane, 3-methyl-	100	C7H16	000589-34-4	95
2			Hexane, 3-methyl-	100	C7H16	000589-34-4	94
3			Hexane, 3-methyl-	100	C7H16	000589-34-4	91
4			1-Pentanol, 2-methyl-	102	C6H14O	000105-30-6	78
5			Heptane	100	C7H16	000142-82-5	72



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042366.D
Acq On : 17 Apr 2025 20:05
Operator : SY/MD
Sample : Q1726-01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

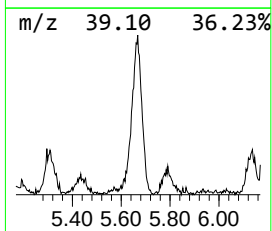
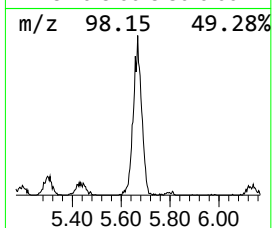
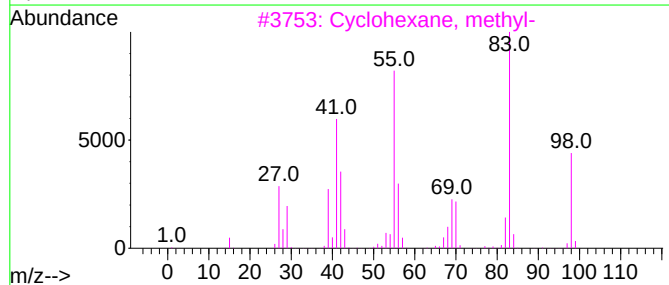
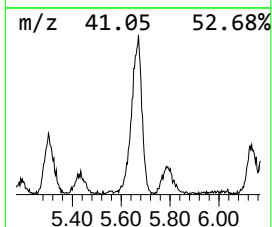
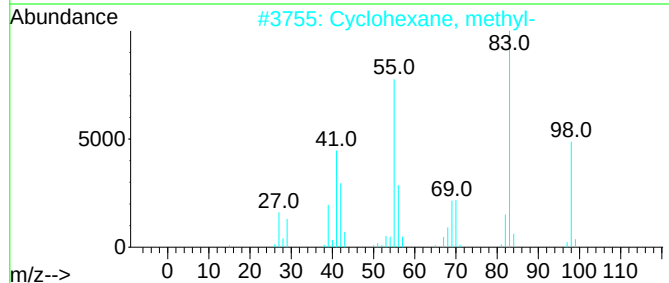
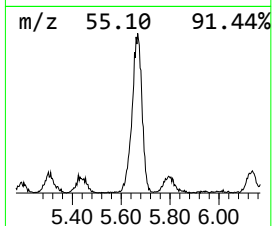
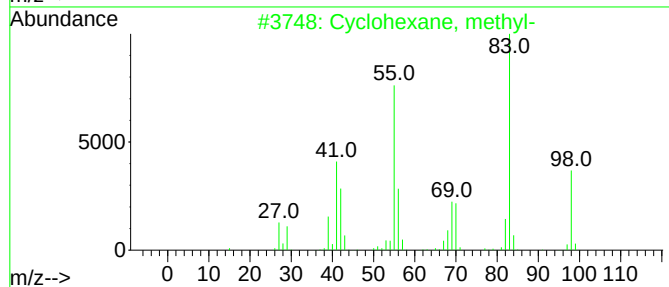
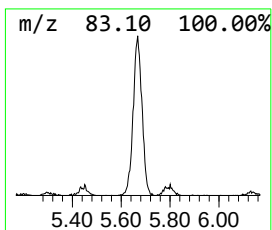
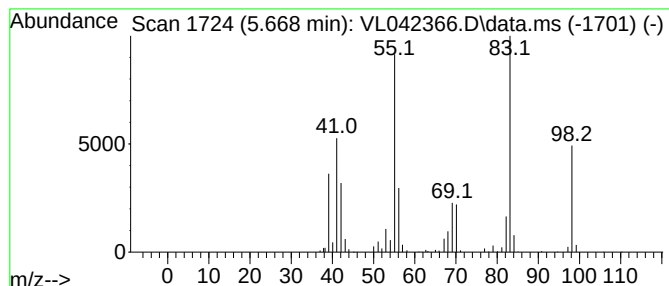
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 4 Cyclohexane, methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.668	9.30 ppbv	873147	1,4-Difluorobenzene	3.959

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Cyclohexane, methyl-	98	C7H14	000108-87-2	97
2			Cyclohexane, methyl-	98	C7H14	000108-87-2	97
3			Cyclohexane, methyl-	98	C7H14	000108-87-2	97
4			Cyclohexane, methyl-	98	C7H14	000108-87-2	80
5			Cyclohexane, methyl-	98	C7H14	000108-87-2	80



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042366.D
Acq On : 17 Apr 2025 20:05
Operator : SY/MD
Sample : Q1726-01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

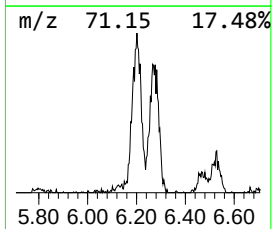
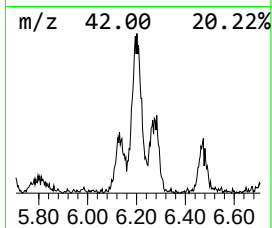
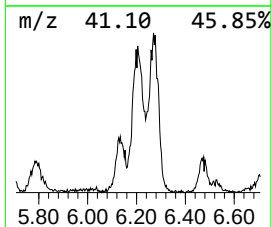
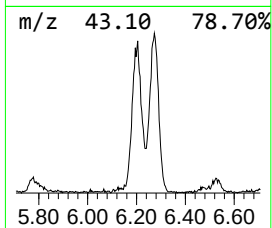
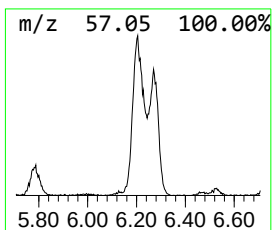
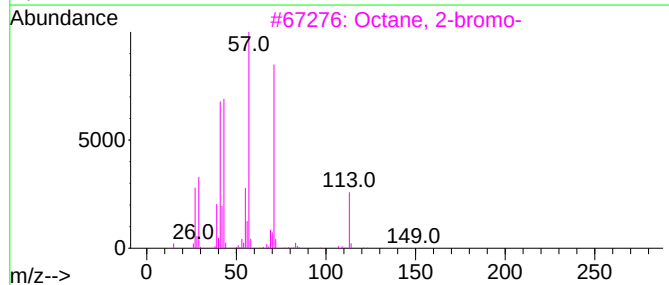
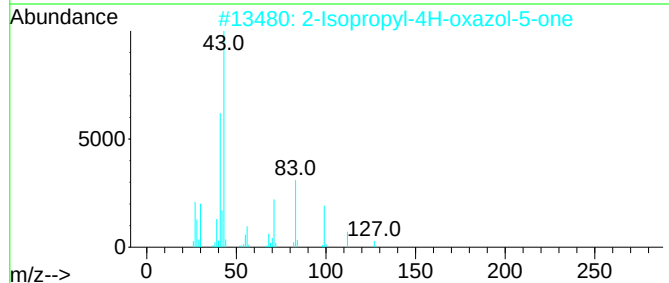
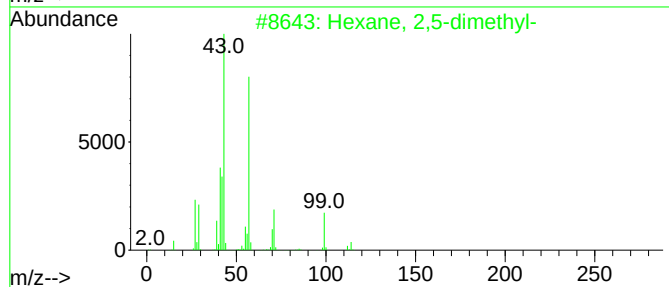
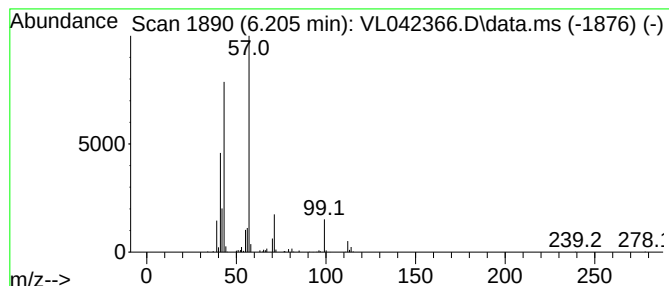
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 5 Hexane, 2,5-dimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.205	6.51 ppbv	611758	1,4-Difluorobenzene	3.959

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	64
2			2-Isopropyl-4H-oxazol-5-one	127	C6H9NO2	1000190-01-9	47
3			Octane, 2-bromo-	192	C8H17Br	000557-35-7	42
4			Undecane, 2,6-dimethyl-	184	C13H28	017301-23-4	40
5			Heptane, 2-methyl-	114	C8H18	000592-27-8	40



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042366.D
Acq On : 17 Apr 2025 20:05
Operator : SY/MD
Sample : Q1726-01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

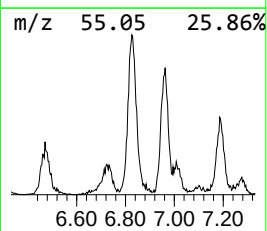
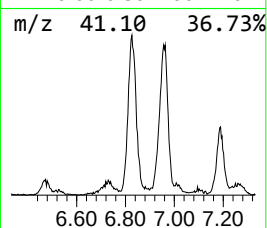
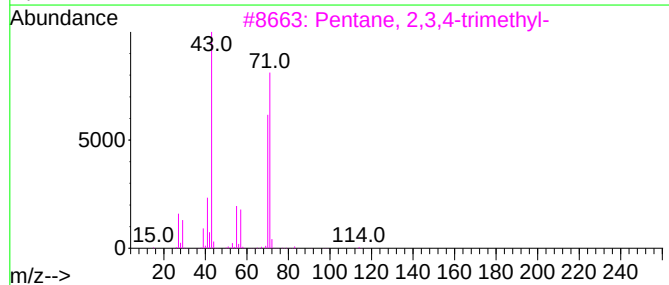
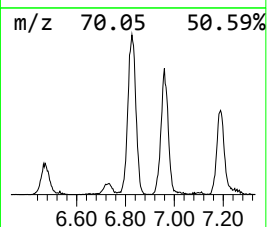
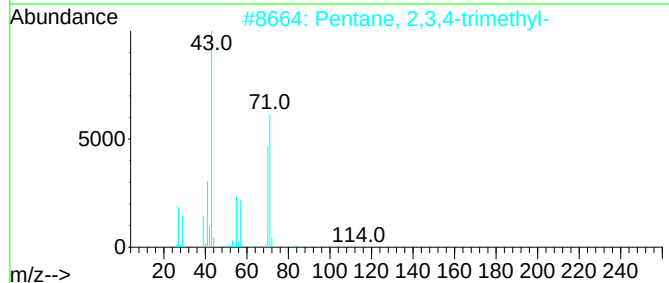
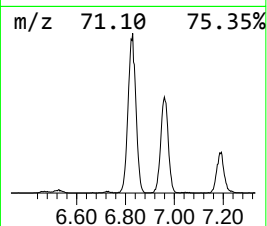
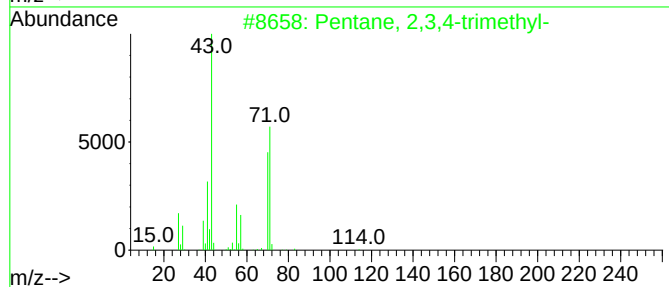
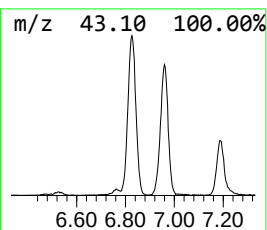
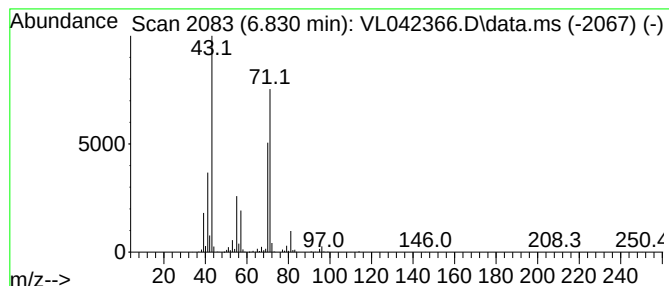
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 6 Pentane, 2,3,4-trimethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.830	12.52 ppbv	1573920	Chlorobenzene-d5	8.882

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	90
2			Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	87
3			Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	86
4			Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	86
5			Heptane, 4-methyl-	114	C8H18	000589-53-7	78



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042366.D
Acq On : 17 Apr 2025 20:05
Operator : SY/MD
Sample : Q1726-01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

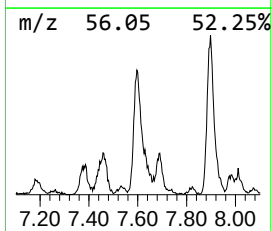
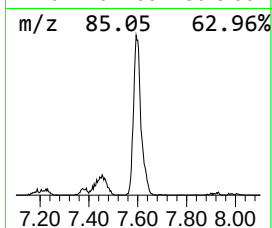
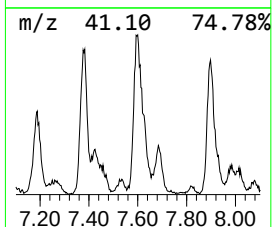
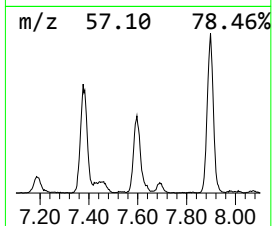
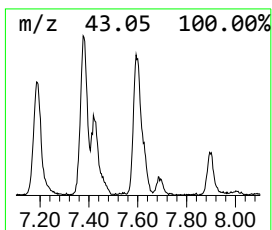
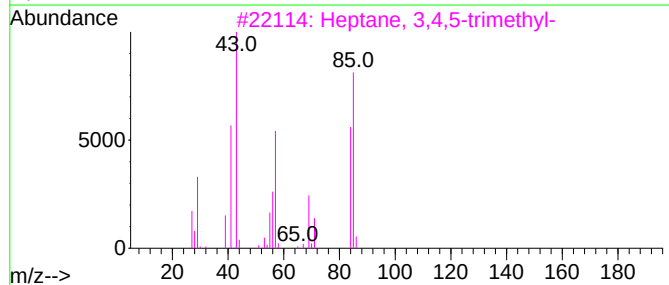
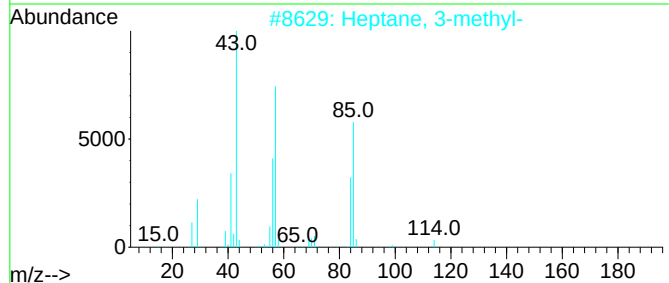
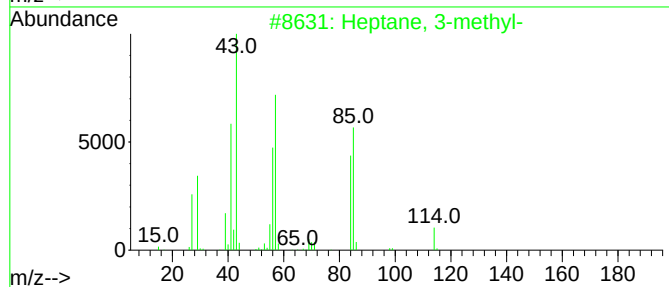
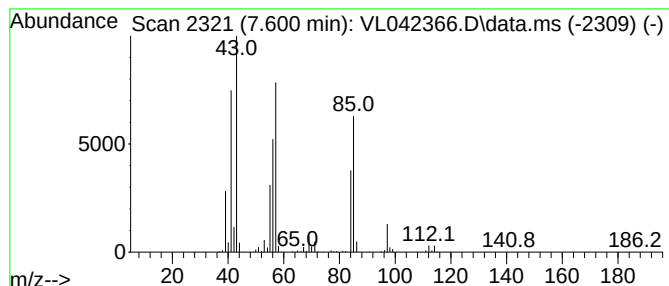
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 7 Heptane, 3-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.600	9.47 ppbv	1189690	Chlorobenzene-d5	8.882

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Heptane, 3-methyl-	114	C8H18	000589-81-1	78
2			Heptane, 3-methyl-	114	C8H18	000589-81-1	72
3			Heptane, 3,4,5-trimethyl-	142	C10H22	020278-89-1	59
4			Butane, 2,2,3-trimethyl-	100	C7H16	000464-06-2	59
5			Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	58



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042366.D
Acq On : 17 Apr 2025 20:05
Operator : SY/MD
Sample : Q1726-01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

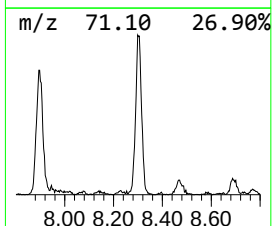
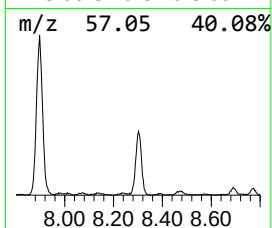
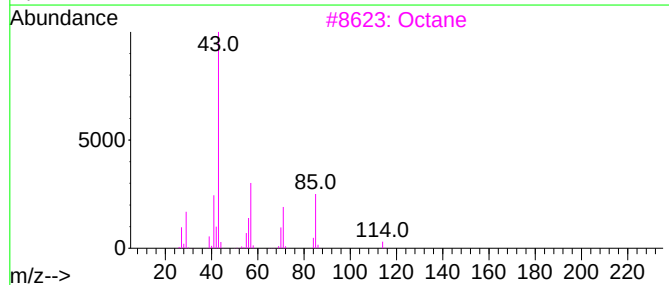
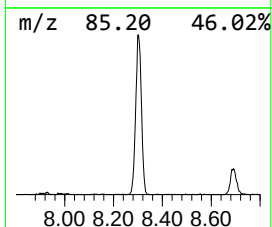
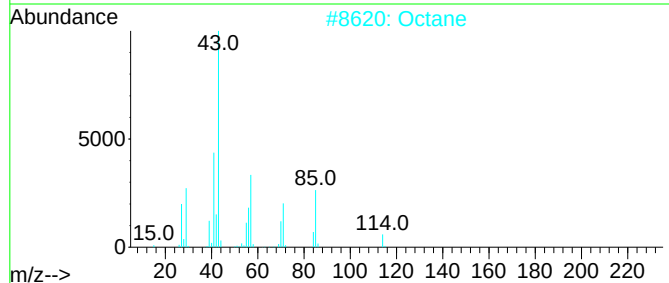
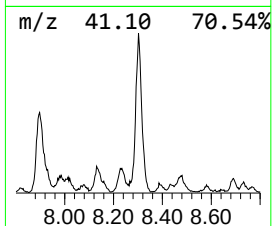
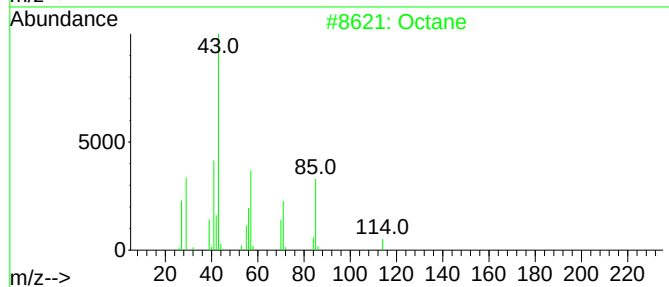
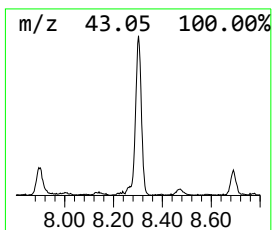
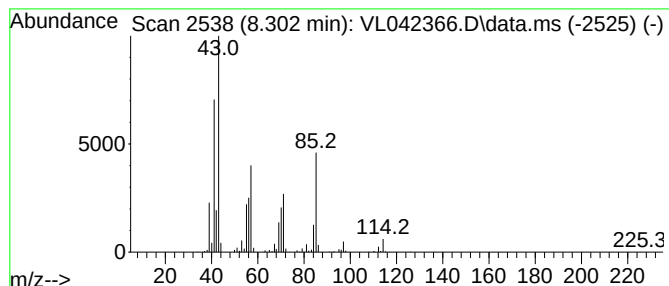
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 8 Octane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.302	9.67 ppbv	1215090	Chlorobenzene-d5	8.882

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane			114	C8H18	000111-65-9	90
2	Octane			114	C8H18	000111-65-9	90
3	Octane			114	C8H18	000111-65-9	83
4	Heptane, 2,4-dimethyl-			128	C9H20	002213-23-2	59
5	Octane			114	C8H18	000111-65-9	58



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042366.D
Acq On : 17 Apr 2025 20:05
Operator : SY/MD
Sample : Q1726-01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

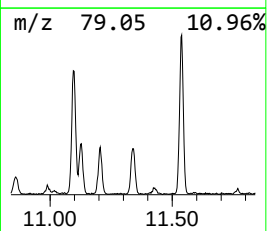
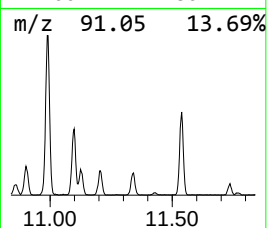
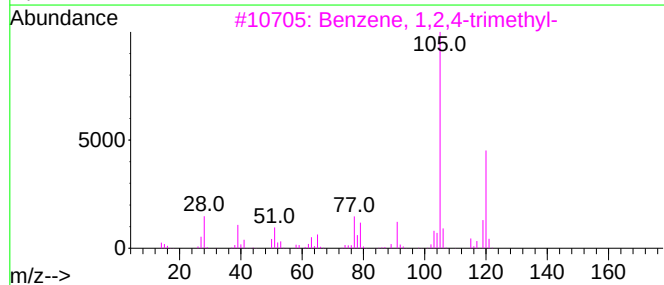
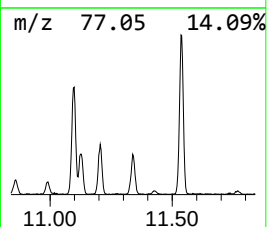
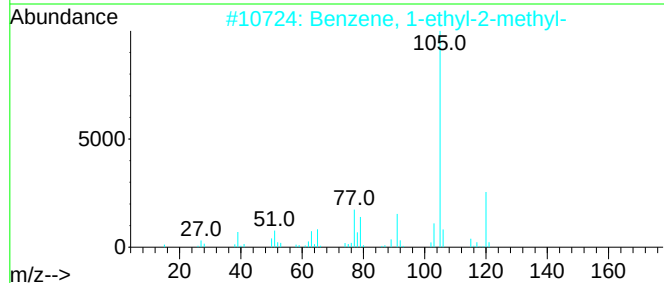
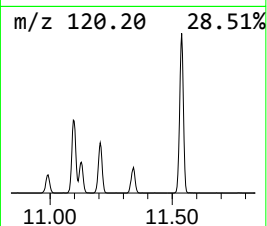
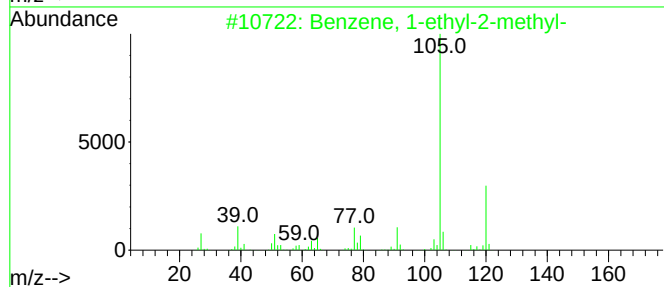
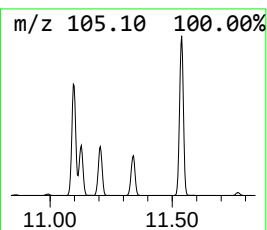
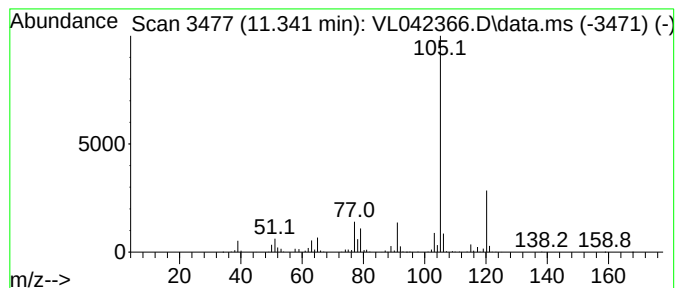
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 9 Benzene, 1-ethyl-2-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.341	6.96 ppbv	874640	Chlorobenzene-d5	8.882

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	94
2			Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	94
3			Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	91
4			Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	91
5			Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	91



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042366.D
Acq On : 17 Apr 2025 20:05
Operator : SY/MD
Sample : Q1726-01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

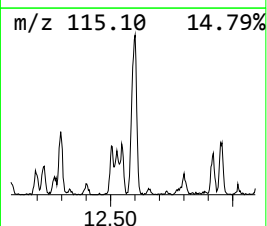
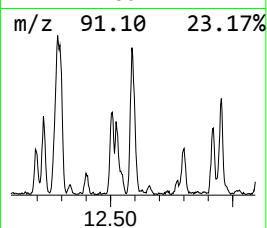
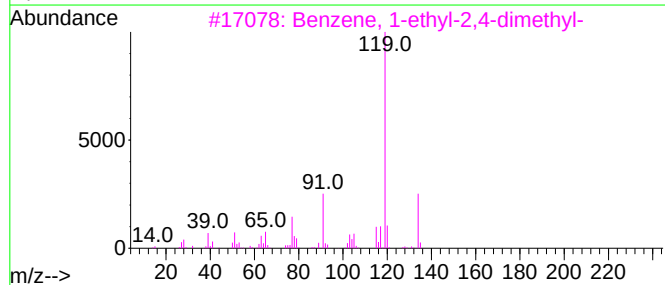
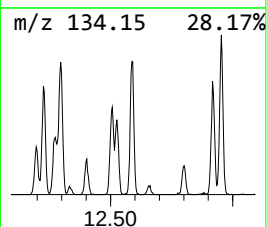
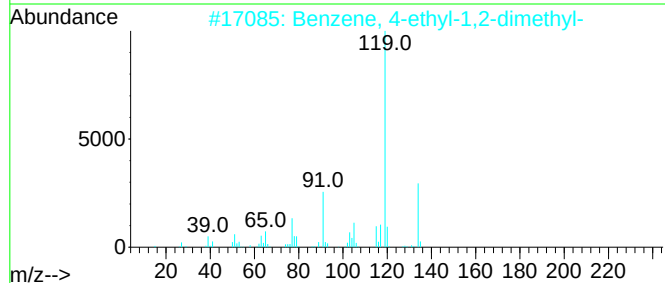
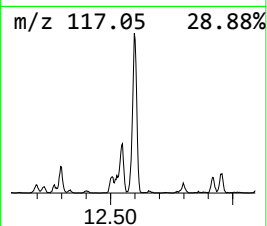
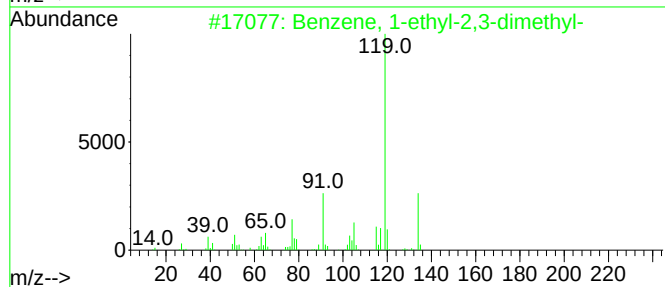
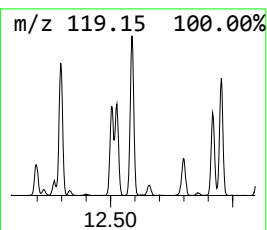
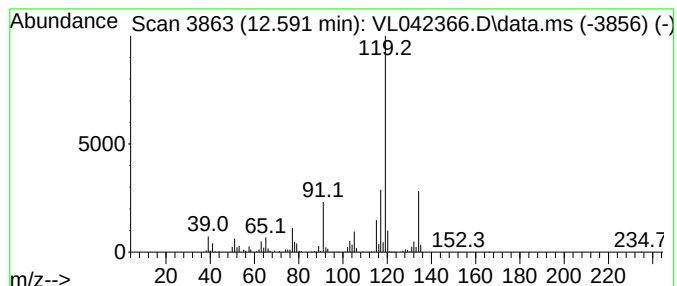
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 10 Benzene, 1-ethyl-2,3-dimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.591	7.59 ppbv	953656	Chlorobenzene-d5	8.882

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-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	93
4			Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	91
5			Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	87



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042366.D
Acq On : 17 Apr 2025 20:05
Operator : SY/MD
Sample : Q1726-01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

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

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
Butane	1.622	7.9	ppbv	361441	1	2.787	459034	10.0
Hexane, 2-methyl-	4.053	10.4	ppbv	974029	2	3.959	939304	10.0
Hexane, 3-methyl-	4.269	11.2	ppbv	1052000	2	3.959	939304	10.0
Cyclohexane, me...	5.668	9.3	ppbv	873147	2	3.959	939304	10.0
Hexane, 2,5-dim...	6.205	6.5	ppbv	611758	2	3.959	939304	10.0
Pentane, 2,3,4-...	6.830	12.5	ppbv	1573920	3	8.882	1256710	10.0
Heptane, 3-methyl-	7.600	9.5	ppbv	1189690	3	8.882	1256710	10.0
Octane	8.302	9.7	ppbv	1215090	3	8.882	1256710	10.0
Benzene, 1-ethy...	11.341	7.0	ppbv	874640	3	8.882	1256710	10.0
Benzene, 1-ethy...	12.591	7.6	ppbv	953656	3	8.882	1256710	10.0

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-DUP-3-03312025DL	SDG No.:	Q1726
Lab Sample ID:	Q1726-01DL	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
VL042376.D	20		04/18/25 01:30	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	4.20	20.8	UD	20.8	49.5	ug/m3
64-17-5	Ethanol	330	622	EDQ	12.1	18.8	ug/m3
74-87-3	Chloromethane	2.00	4.13	UD	4.13	20.6	ug/m3
75-01-4	Vinyl Chloride	0.28	0.72	UD	0.72	1.53	ug/m3
74-83-9	Bromomethane	2.80	10.9	UD	10.9	38.8	ug/m3
75-00-3	Chloroethane	3.40	8.97	UD	8.97	26.4	ug/m3
109-99-9	Tetrahydrofuran	2.60	7.67	UD	7.67	29.5	ug/m3
75-69-4	Trichlorofluoromethane	3.20	18.0	UD	18.0	56.2	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	3.20	24.5	UD	24.5	76.7	ug/m3
76-14-2	Dichlorotetrafluoroethane	1.80	12.6	UD	12.6	69.9	ug/m3
593-60-2	Bromoethene	2.40	10.5	UD	10.5	43.7	ug/m3
75-65-0	tert-Butyl alcohol	3.80	11.5	UD	11.5	30.3	ug/m3
142-82-5	Heptane	9.60	39.3	JD	9.02	41.0	ug/m3
67-63-0	Isopropyl Alcohol	35.9	88.2	D	3.44	24.6	ug/m3
75-35-4	1,1-Dichloroethene	2.80	11.1	UD	11.1	39.6	ug/m3
67-64-1	Acetone	630	1500	ED	11.4	23.8	ug/m3
75-15-0	Carbon Disulfide	3.20	9.97	UD	9.97	31.1	ug/m3
1634-04-4	Methyl tert-Butyl Ether	2.40	8.65	UD	8.65	36.0	ug/m3
75-09-2	Methylene Chloride	3.80	13.2	UD	13.2	34.7	ug/m3
156-60-5	trans-1,2-Dichloroethene	3.80	15.1	UD	15.1	39.6	ug/m3
75-34-3	1,1-Dichloroethane	2.60	10.5	UD	10.5	40.5	ug/m3
110-82-7	Cyclohexane	4.40	15.2	UD	15.2	34.4	ug/m3
78-93-3	2-Butanone	2.40	7.08	UD	7.08	29.5	ug/m3
56-23-5	Carbon Tetrachloride	0.22	1.38	UD	1.38	3.77	ug/m3
156-59-2	cis-1,2-Dichloroethene	1.80	7.14	UD	7.14	39.6	ug/m3
67-66-3	Chloroform	1.70	8.30	UD	8.30	48.8	ug/m3
71-55-6	1,1,1-Trichloroethane	0.19	1.04	UD	1.04	3.27	ug/m3
540-84-1	2,2,4-Trimethylpentane	20.4	95.3	D	9.34	46.7	ug/m3
71-43-2	Benzene	2.30	7.35	JD	5.43	31.9	ug/m3
107-06-2	1,2-Dichloroethane	1.80	7.29	UD	7.29	40.5	ug/m3
79-01-6	Trichloroethene	0.34	1.83	UD	1.83	3.22	ug/m3
78-87-5	1,2-Dichloropropane	2.20	10.2	UD	10.2	46.2	ug/m3
75-27-4	Bromodichloromethane	1.50	10.1	UD	10.1	67.0	ug/m3
108-10-1	4-Methyl-2-Pentanone	1.90	7.79	UD	7.79	41.0	ug/m3
108-88-3	Toluene	57.5	217	D	8.29	37.7	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-DUP-3-03312025DL	SDG No.:	Q1726
Lab Sample ID:	Q1726-01DL	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
VL042376.D	20		04/18/25 01:30	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	1.20	5.45	UD	5.45	45.4	ug/m3
10061-01-5	cis-1,3-Dichloropropene	1.30	5.90	UD	5.90	45.4	ug/m3
79-00-5	1,1,2-Trichloroethane	1.40	7.64	UD	7.64	54.6	ug/m3
124-48-1	Dibromochloromethane	1.30	11.1	UD	11.1	85.2	ug/m3
106-93-4	1,2-Dibromoethane	1.40	10.8	UD	10.8	15.4	ug/m3
127-18-4	Tetrachloroethene	0.30	2.03	UD	2.03	4.07	ug/m3
108-90-7	Chlorobenzene	1.50	6.91	UD	6.91	46.0	ug/m3
100-41-4	Ethyl Benzene	12.1	52.6	D	10.4	43.4	ug/m3
179601-23-1	m/p-Xylene	44.3	192	D	18.2	86.9	ug/m3
95-47-6	o-Xylene	17.2	74.7	D	10.4	43.4	ug/m3
100-42-5	Styrene	2.20	9.37	UD	9.37	42.6	ug/m3
75-25-2	Bromoform	1.10	11.4	UD	11.4	103	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.22	1.51	UD	1.51	4.12	ug/m3
95-49-8	2-Chlorotoluene	2.20	11.4	UD	11.4	51.8	ug/m3
108-67-8	1,3,5-Trimethylbenzene	7.50	36.9	JD	10.8	49.2	ug/m3
95-63-6	1,2,4-Trimethylbenzene	22.6	111	D	7.87	49.2	ug/m3
541-73-1	1,3-Dichlorobenzene	1.60	9.62	UD	9.62	60.1	ug/m3
106-46-7	1,4-Dichlorobenzene	1.10	6.61	UD	6.61	60.1	ug/m3
95-50-1	1,2-Dichlorobenzene	1.50	9.02	UD	9.02	60.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	1.70	12.6	UD	12.6	74.2	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	1.70	18.1	UD	18.1	107	ug/m3
106-99-0	1,3-Butadiene	2.60	5.75	UD	5.75	22.1	ug/m3
91-20-3	Naphthalene	1.50	7.86	UD	7.86	10.5	ug/m3
622-96-8	4-Ethyltoluene	6.50	32.0	JD	11.8	49.2	ug/m3
110-54-3	Hexane	2.20	7.75	UD	7.75	35.2	ug/m3
107-05-1	Allyl Chloride	3.00	9.39	UD	9.39	31.3	ug/m3
123-91-1	1,4-Dioxane	4.20	15.1	UD	15.1	36.0	ug/m3
80-62-6	Methyl Methacrylate	1.70	6.96	UD	6.96	41.0	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	100000	2.787
540-36-3	1,4-Difluorobenzene	288000	3.959
3114-55-4	Chlorobenzene-d5	249000	8.882

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-DUP-3-03312025DL	SDG No.:	Q1726
Lab Sample ID:	Q1726-01DL	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
VL042376.D	20		04/18/25 01:30	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 : VL042376.D
 Acq On : 18 Apr 2025 01:30
 Operator : SY/MD
 Sample : Q1726-01DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-DUP-3-03312025DL

Manual Integrations
 APPROVED

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

Quant Time: Apr 18 04:39:28 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	100356	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	288404	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	249449	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	207163	10.106	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.100%
Target Compounds						
					Qvalue	
9) Propene	1.489	41	1554m	0.202	ppbv	
10) Heptane	4.978	43	10406	0.482	ppbv	91
13) Ethanol	1.722	45	20340	16.643	ppbv	80
15) Acetone	1.835	43	516180	31.420	ppbv	98
19) Isopropyl Alcohol	1.887	45	16398	1.797	ppbv #	1
30) Cyclohexane	3.868	84	1581m	0.119	ppbv	
36) Benzene	3.658	78	3637m	0.117	ppbv	
44) 2,2,4-Trimethylpentane	4.641	57	54714	1.018	ppbv	94
53) Toluene	6.930	91	107299	2.874	ppbv	98
58) Ethyl Benzene	9.354	91	29882	0.605	ppbv	94
59) m/p-Xylene	9.529	91	88263	2.217	ppbv	99
60) o-Xylene	9.963	91	34430	0.859	ppbv	97
64) n-propylbenzene	10.992	120	2336	0.158	ppbv	75
72) 4-Ethyltoluene	11.128	105	15927	0.325	ppbv #	56
73) 1,3,5-Trimethylbenzene	11.205	105	16220	0.375	ppbv	95
74) 1,2,4-Trimethylbenzene	11.536	105	57208	1.132	ppbv #	60

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

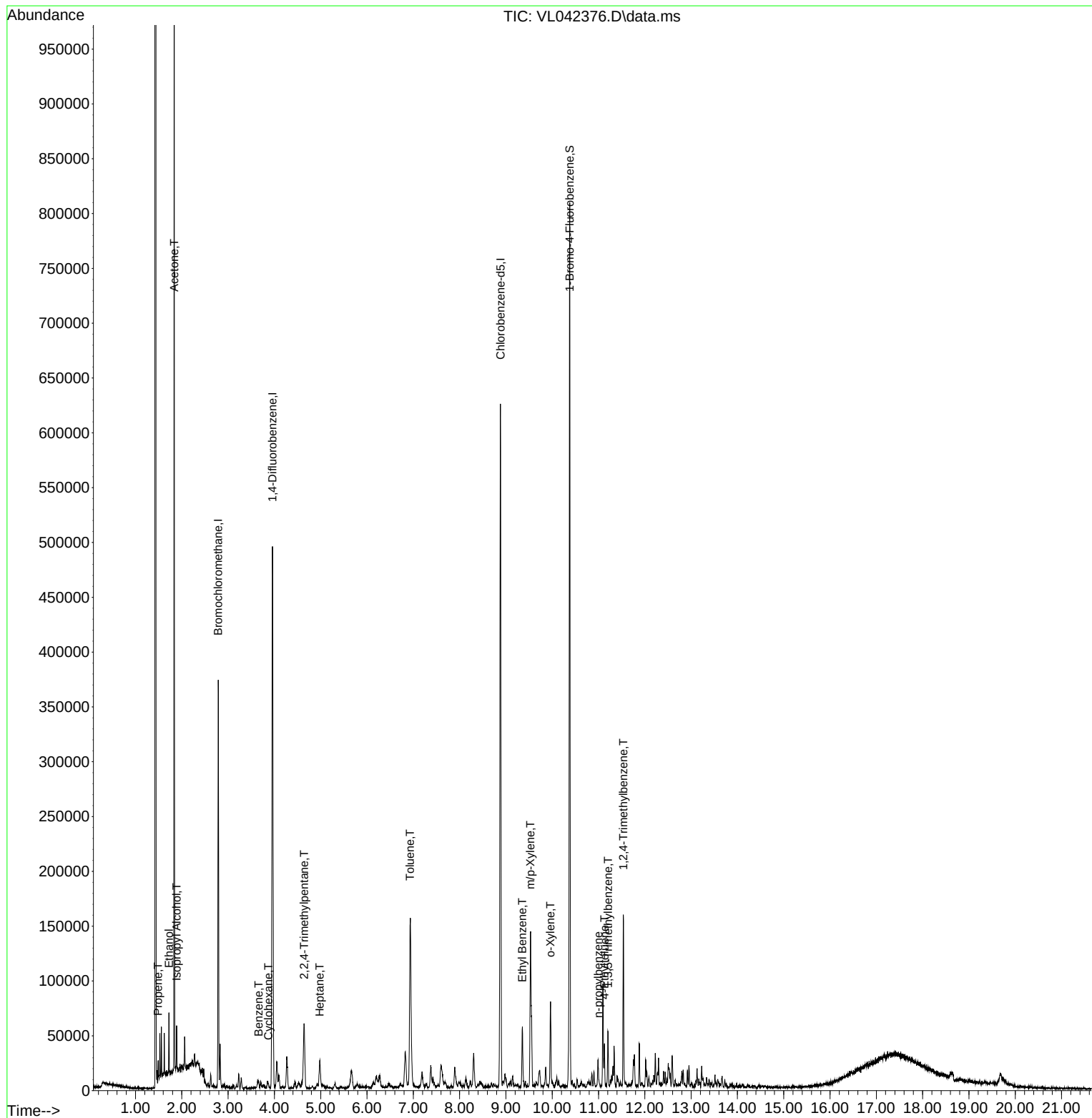
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042376.D
Acq On : 18 Apr 2025 01:30
Operator : SY/MD
Sample : Q1726-01DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

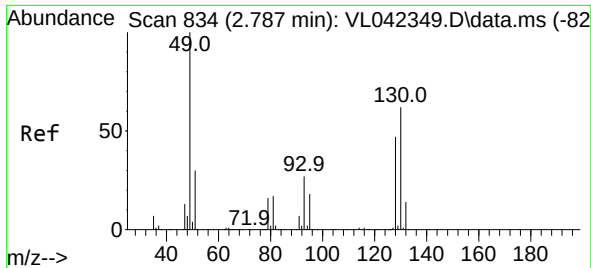
Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL

Quant Time: Apr 18 04:39:28 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

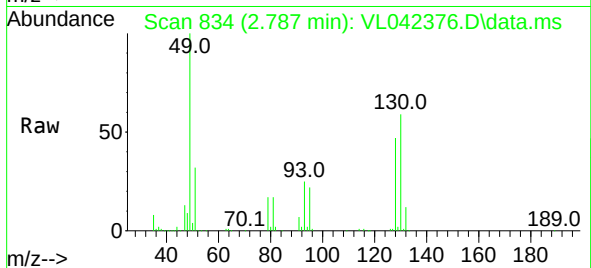
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

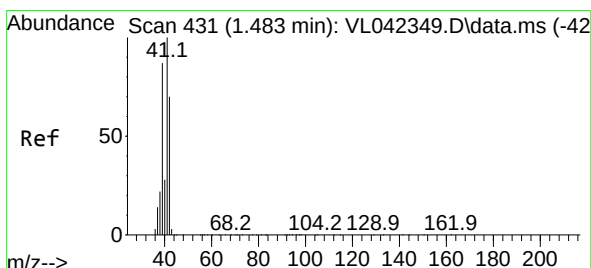
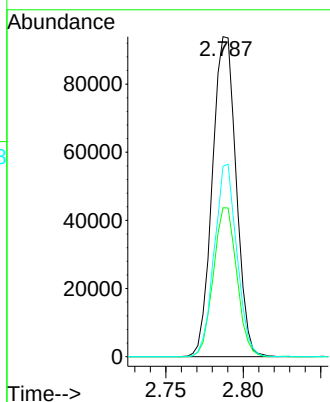
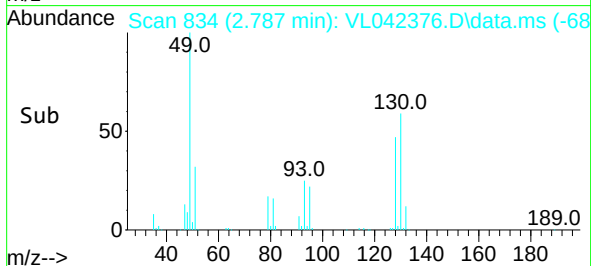
Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL



Tgt Ion: 49 Resp: 100350
Ion Ratio Lower Upper
49 100
128 45.8 22.8 68.4
130 57.1 29.3 88.0

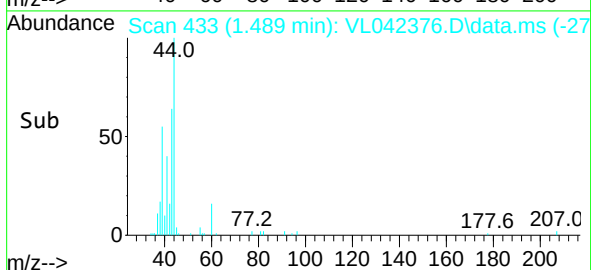
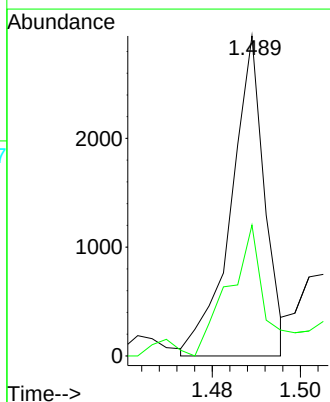
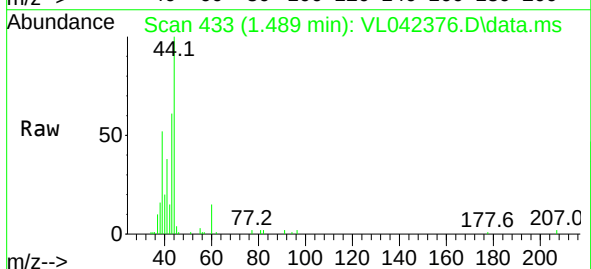
Manual Integrations
APPROVED

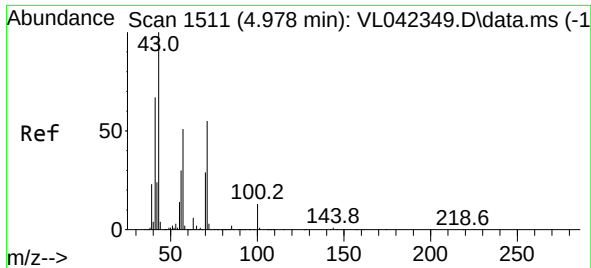
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#9
Propene
Concen: 0.202 ppbv m
RT: 1.489 min Scan# 433
Delta R.T. 0.006 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

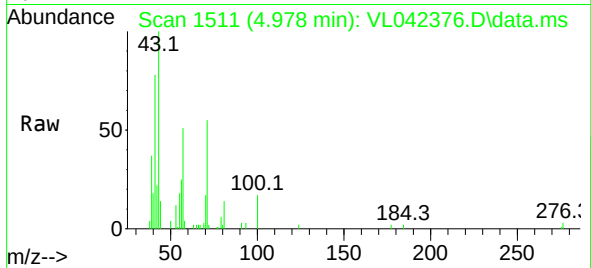
Tgt Ion: 41 Resp: 1554
Ion Ratio Lower Upper
41 100
42 183.7 56.2 84.4#





#10
Heptane
Concen: 0.482 ppbv
RT: 4.978 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

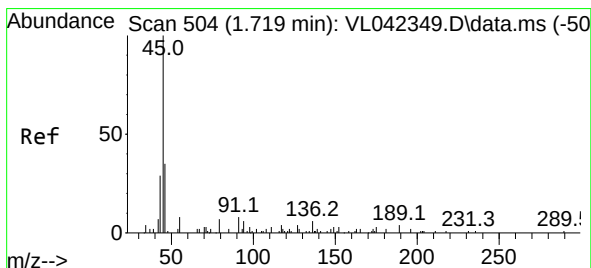
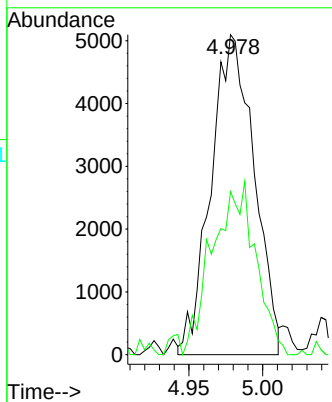
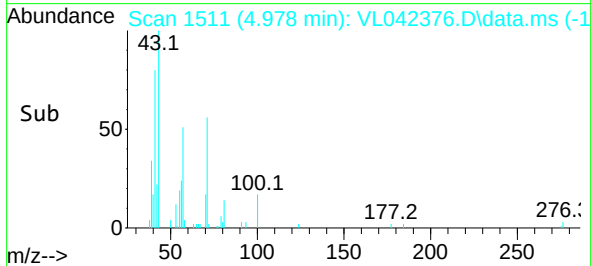
Instrument : MSVOA_L
ClientSampleId : IA-DUP-3-03312025DL



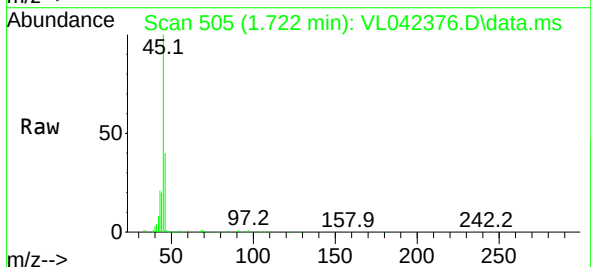
Tgt Ion: 43 Resp: 10400
Ion Ratio Lower Upper
43 100
57 56.4 39.9 59.9

Manual Integrations
APPROVED

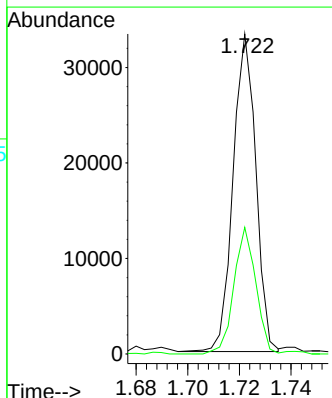
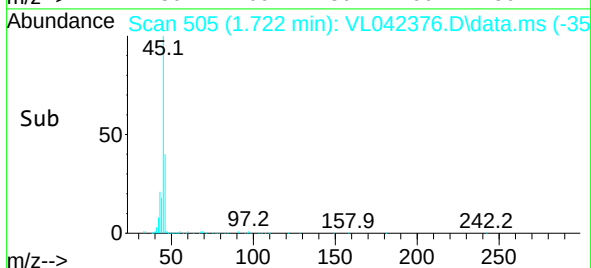
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

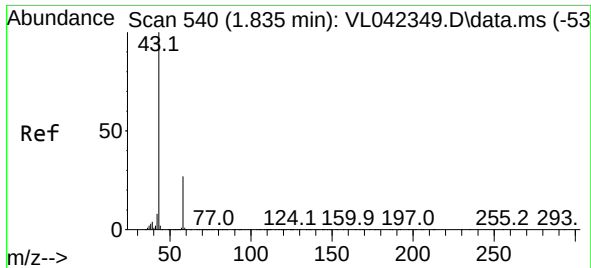


#13
Ethanol
Concen: 16.643 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30



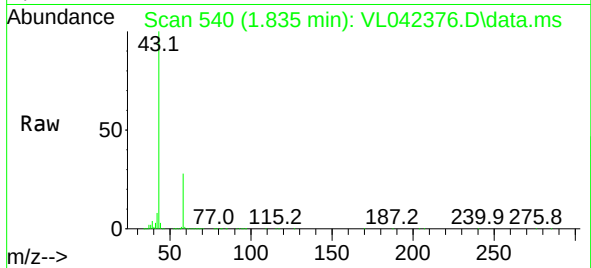
Tgt Ion: 45 Resp: 20340
Ion Ratio Lower Upper
45 100
46 40.5 21.9 87.7





#15
Acetone
Concen: 31.420 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

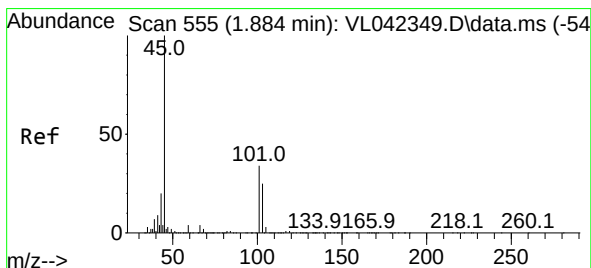
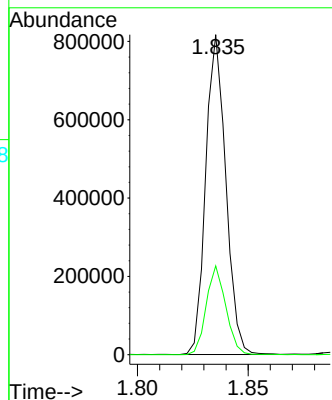
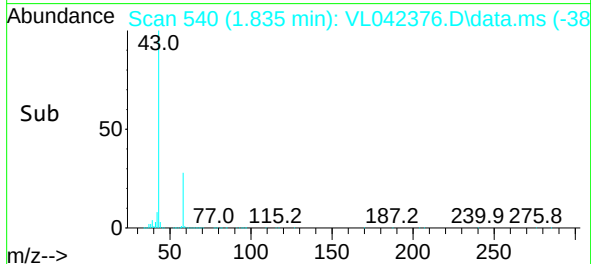
Instrument : MSVOA_L
ClientSampleId : IA-DUP-3-03312025DL



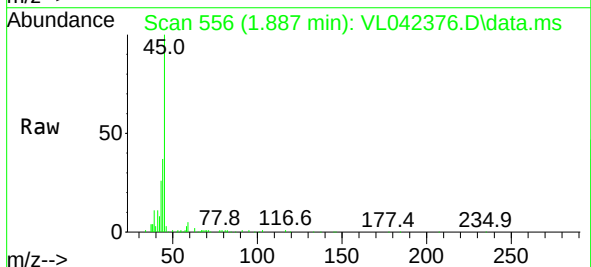
Tgt Ion: 43 Resp: 516180
Ion Ratio Lower Upper
43 100
58 27.1 22.4 33.6

Manual Integrations
APPROVED

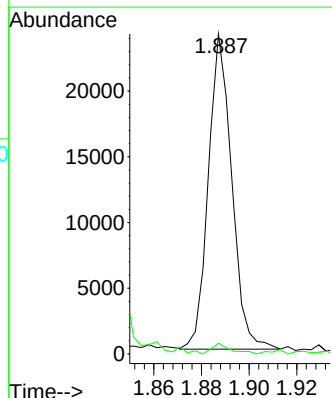
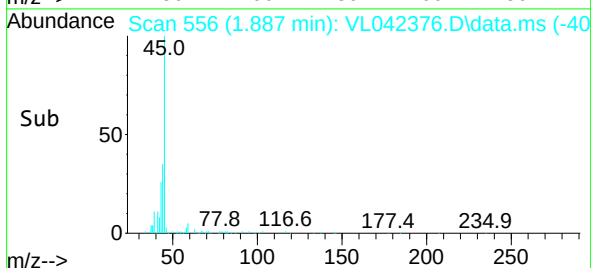
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

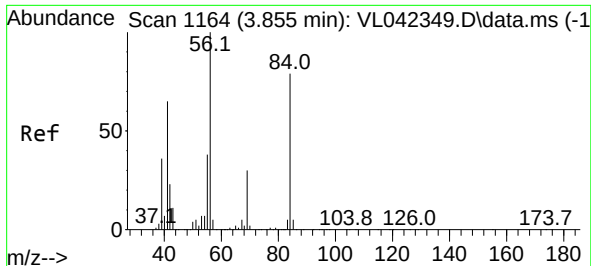


#19
Isopropyl Alcohol
Concen: 1.797 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30



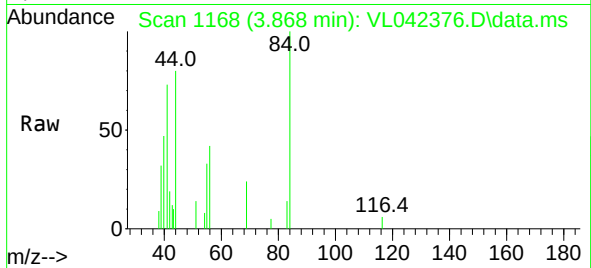
Tgt Ion: 45 Resp: 16398
Ion Ratio Lower Upper
45 100
58 851.7 34.5 51.7#





#30
Cyclohexane
Concen: 0.119 ppbv m
RT: 3.868 min Scan# 1168
Delta R.T. 0.013 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

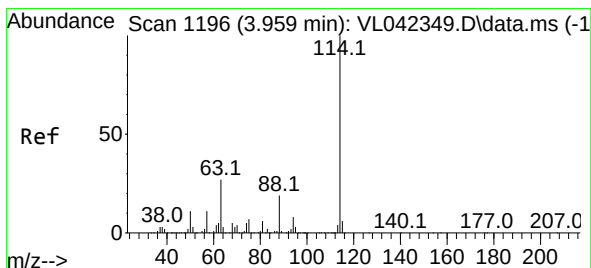
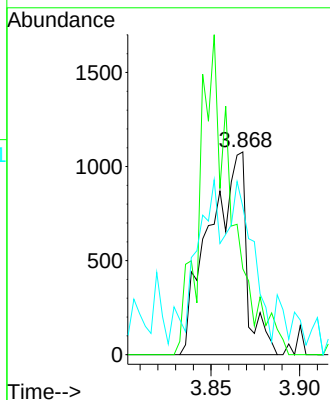
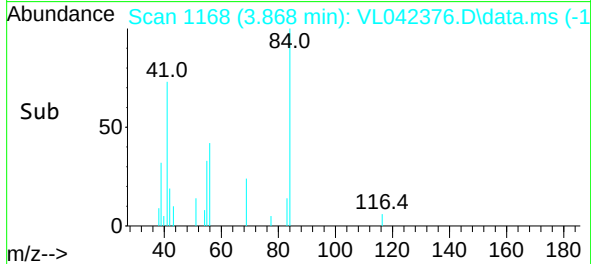
Instrument : MSVOA_L
ClientSampleId : IA-DUP-3-03312025DL



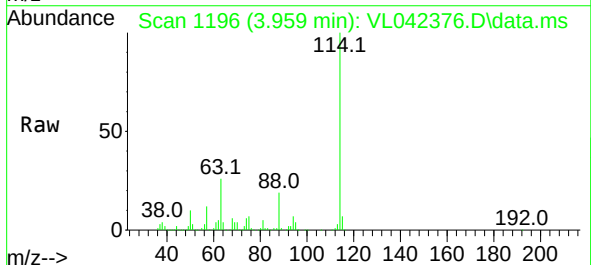
Tgt Ion: 84 Resp: 158
Ion Ratio Lower Upper
84 100
56 138.1 101.0 151.4
41 124.3 67.4 101.0

Manual Integrations
APPROVED

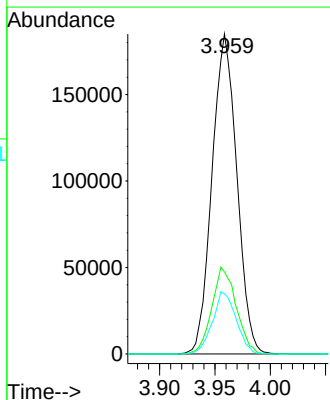
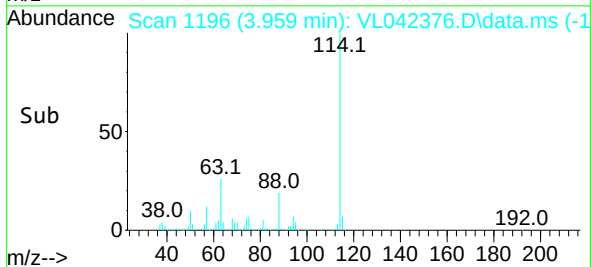
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

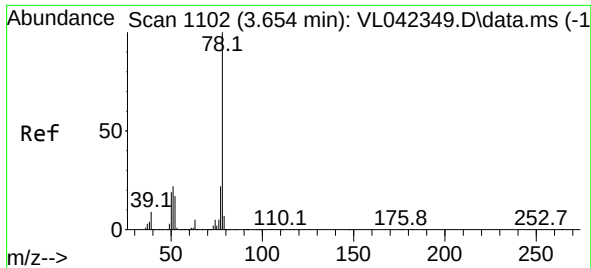


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. -0.000 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30



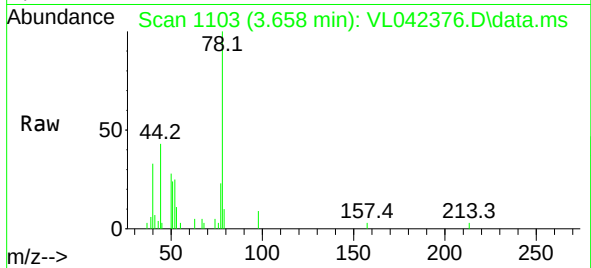
Tgt Ion:114 Resp: 288404
Ion Ratio Lower Upper
114 100
63 26.7 21.8 32.6
88 18.6 15.5 23.3





#36
Benzene
Concen: 0.117 ppbv m
RT: 3.658 min Scan# 1103
Delta R.T. 0.003 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

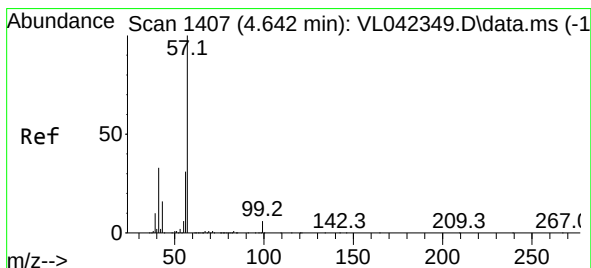
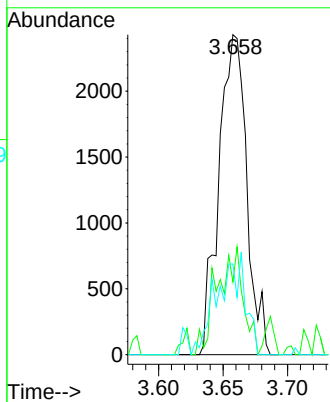
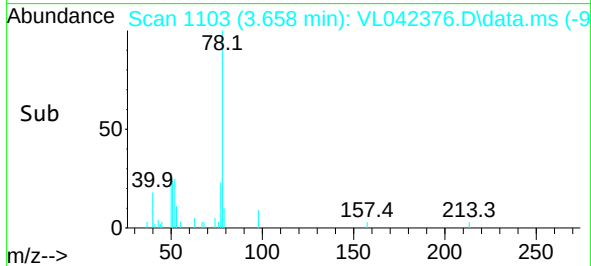
Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL



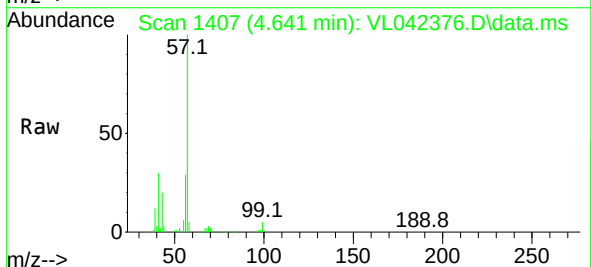
Tgt Ion: 78 Resp: 363
Ion Ratio Lower Upper
78 100
77 22.8 17.4 26.0
50 28.3 15.5 23.3

Manual Integrations
APPROVED

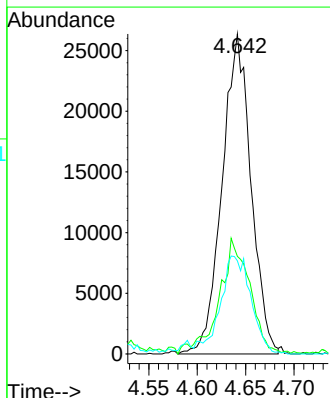
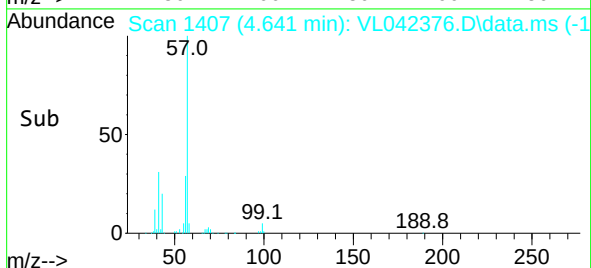
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

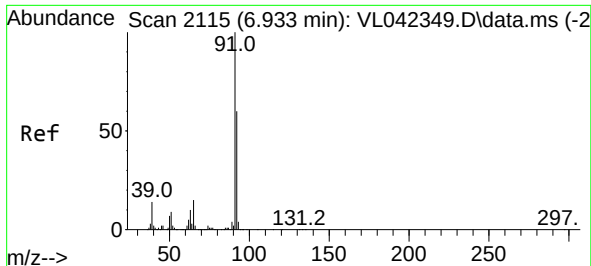


#44
2,2,4-Trimethylpentane
Concen: 1.018 ppbv
RT: 4.641 min Scan# 1407
Delta R.T. -0.000 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30



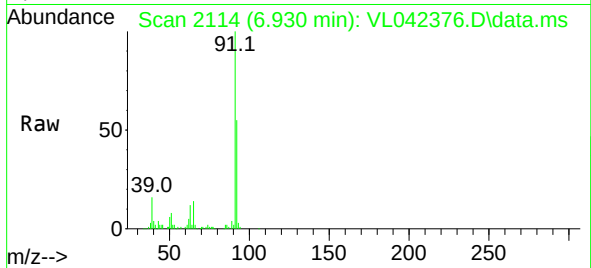
Tgt Ion: 57 Resp: 54714
Ion Ratio Lower Upper
57 100
41 38.6 27.2 40.8
56 34.7 25.7 38.5





#53
Toluene
Concen: 2.874 ppbv
RT: 6.930 min Scan# 2115
Delta R.T. -0.003 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

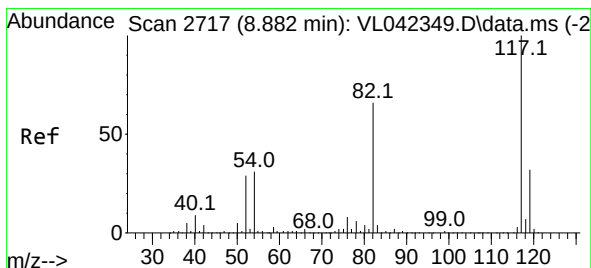
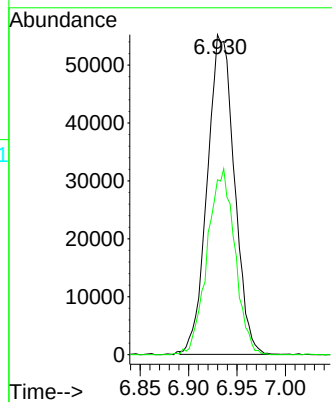
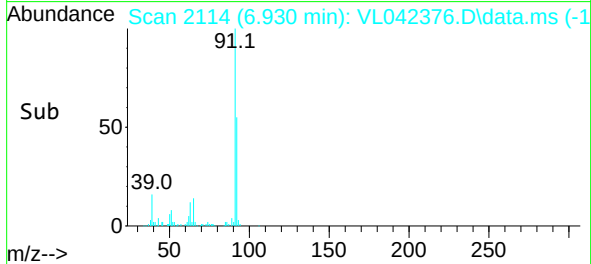
Instrument : MSVOA_L
ClientSampleId : IA-DUP-3-03312025DL



Tgt Ion: 91 Resp: 107299
Ion Ratio Lower Upper
91 100
92 59.1 48.2 72.4

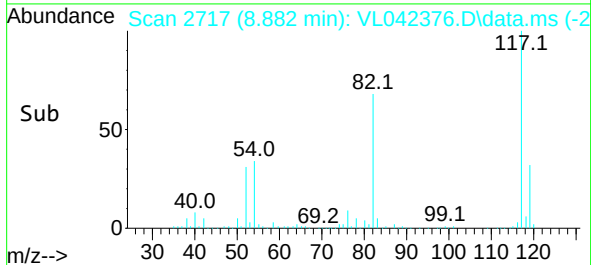
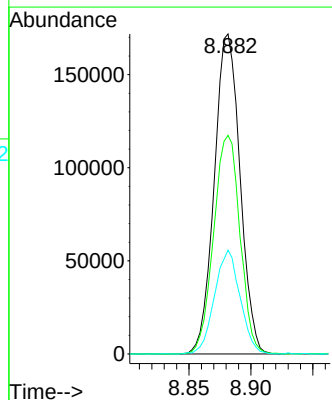
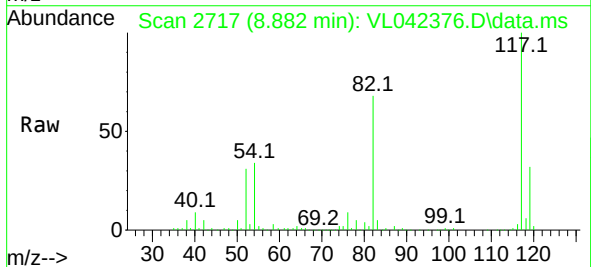
Manual Integrations
APPROVED

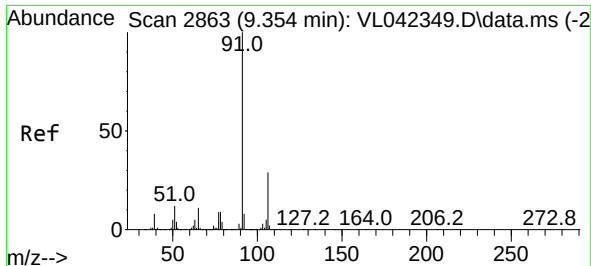
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2717
Delta R.T. -0.000 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

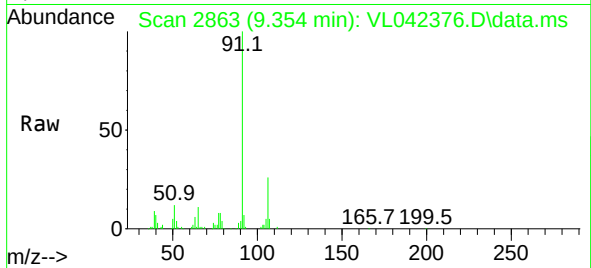
Tgt Ion:117 Resp: 249449
Ion Ratio Lower Upper
117 100
82 69.7 57.8 86.6
119 32.2 25.2 37.8





#58
Ethyl Benzene
Concen: 0.605 ppbv
RT: 9.354 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

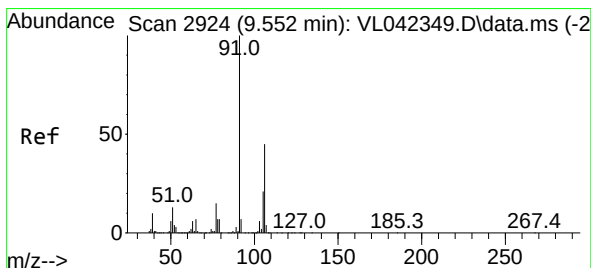
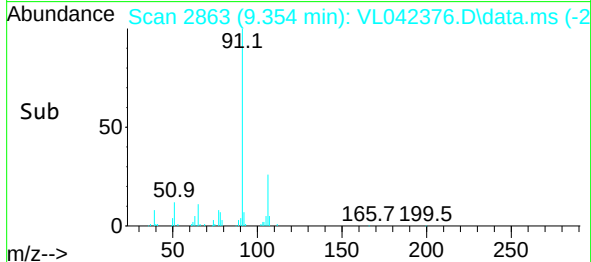
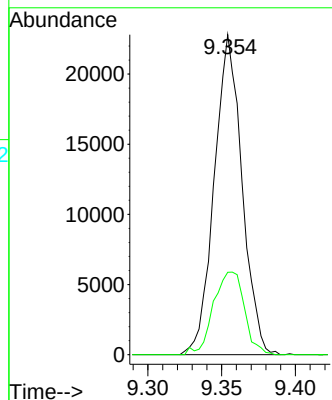
Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL



Tgt Ion: 91 Resp: 2988
Ion Ratio Lower Upper
91 100
106 25.8 23.0 34.4

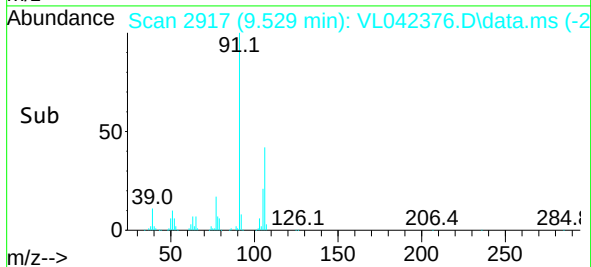
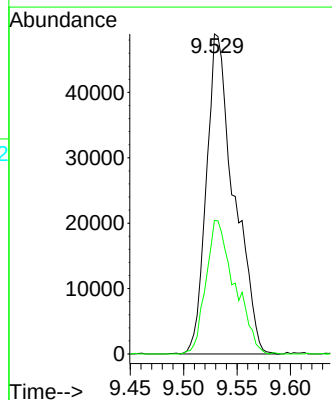
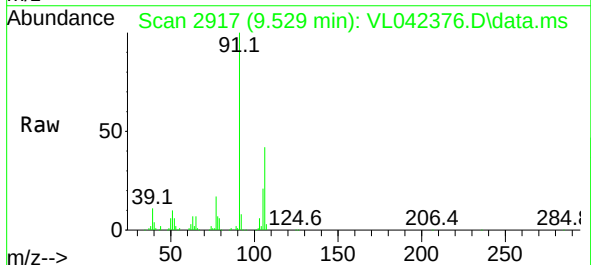
Manual Integrations
APPROVED

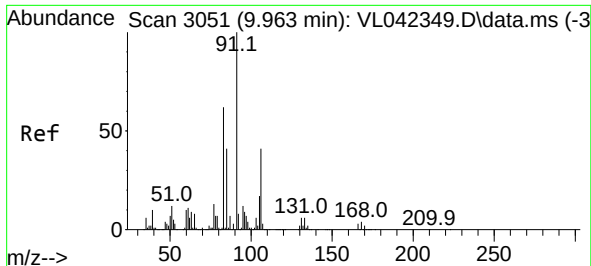
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#59
m/p-Xylene
Concen: 2.217 ppbv
RT: 9.529 min Scan# 2917
Delta R.T. -0.023 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

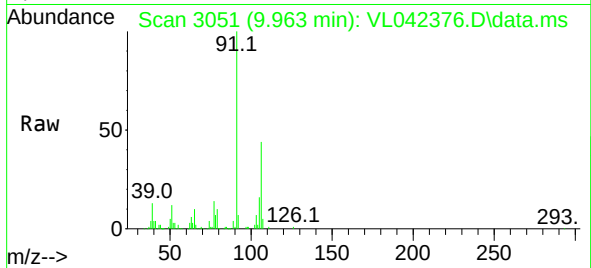
Tgt Ion: 91 Resp: 88263
Ion Ratio Lower Upper
91 100
106 43.4 35.4 53.2





#60
o-Xylene
Concen: 0.859 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. -0.000 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

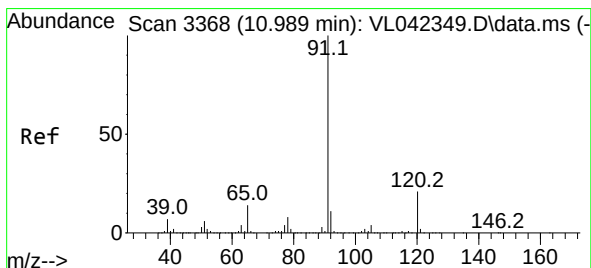
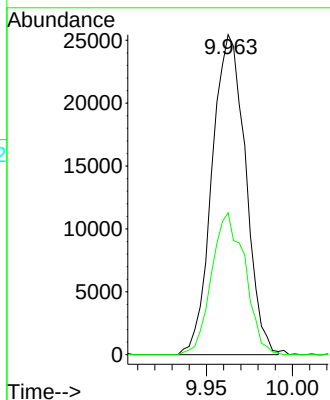
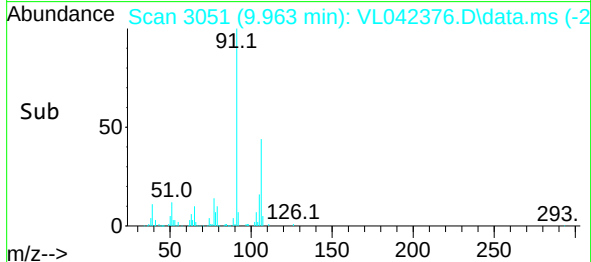
Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL



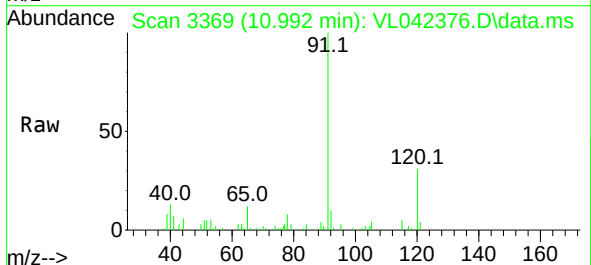
Tgt Ion: 91 Resp: 34430
Ion Ratio Lower Upper
91 100
106 44.3 21.1 63.4

Manual Integrations
APPROVED

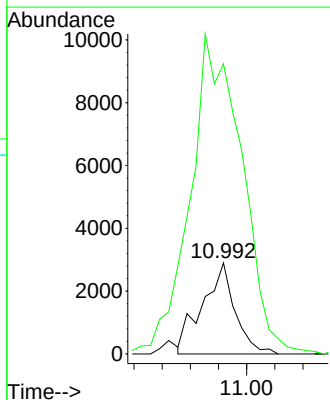
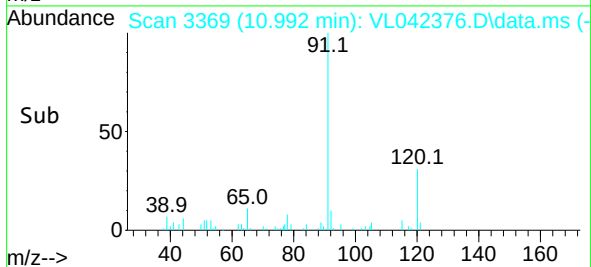
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

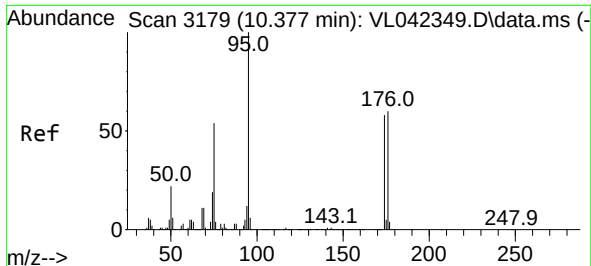


#64
n-propylbenzene
Concen: 0.158 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. 0.003 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30



Tgt Ion:120 Resp: 2336
Ion Ratio Lower Upper
120 100
91 559.2 392.4 588.6





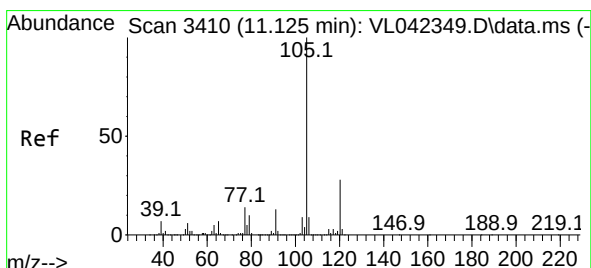
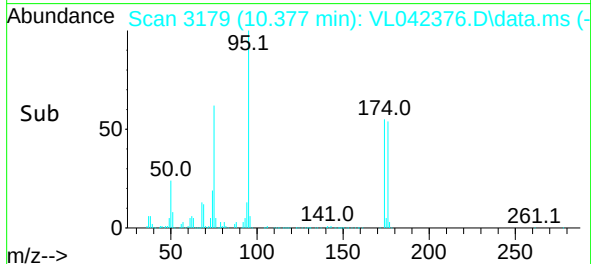
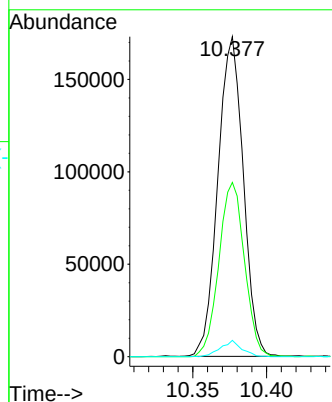
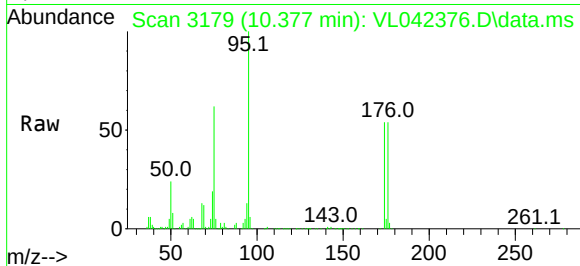
#68
1-Bromo-4-Fluorobenzene
Concen: 10.106 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. -0.000 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL

Tgt Ion: 95 Resp: 20716
Ion Ratio Lower Upper
95 100
174 54.9 48.5 72.7
175 4.3 3.7 5.5

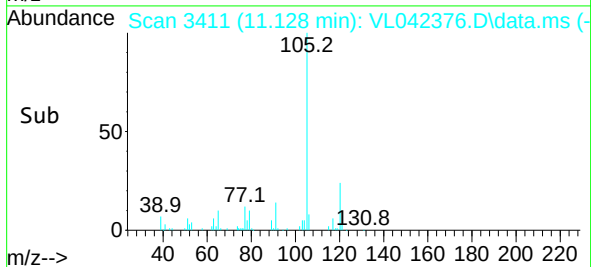
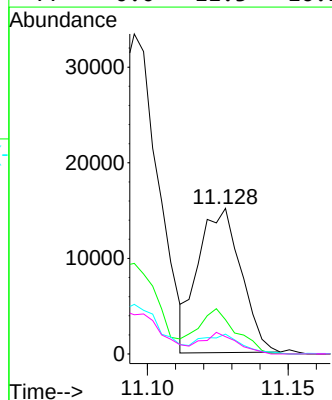
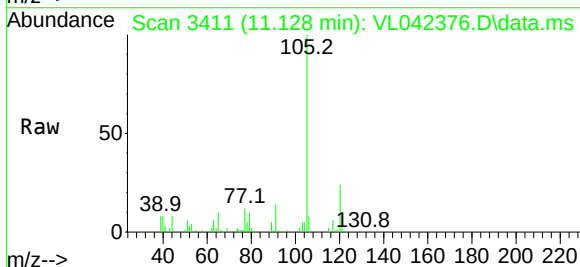
Manual Integrations
APPROVED

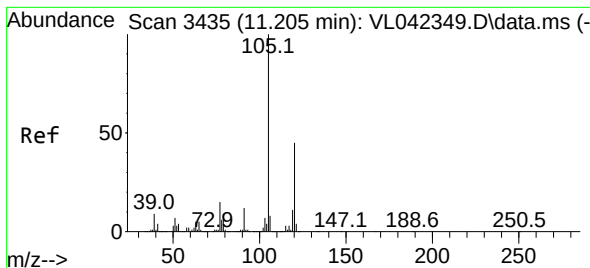
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#72
4-Ethyltoluene
Concen: 0.325 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. 0.003 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

Tgt Ion:105 Resp: 15927
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: 0.375 ppbv

RT: 11.205 min Scan# 3435

Delta R.T. -0.000 min

Lab File: VL042376.D

Acq: 18 Apr 2025 01:30

Instrument :

MSVOA_L

ClientSampleId :

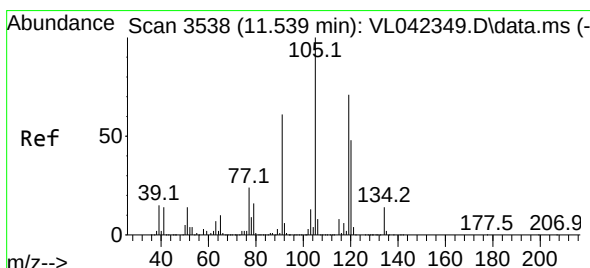
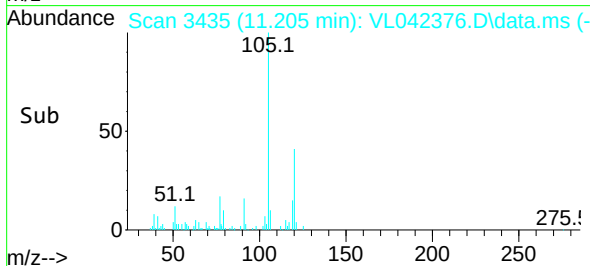
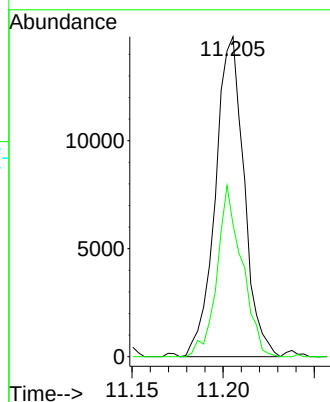
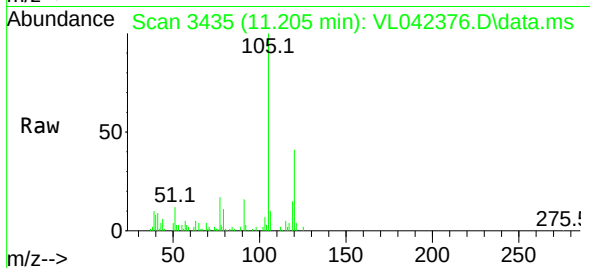
IA-DUP-3-03312025DL

Tgt Ion:105 Resp: 16220
 Ion Ratio Lower Upper
 105 100
 120 41.4 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: 1.132 ppbv

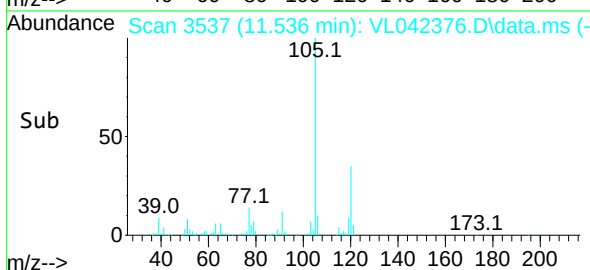
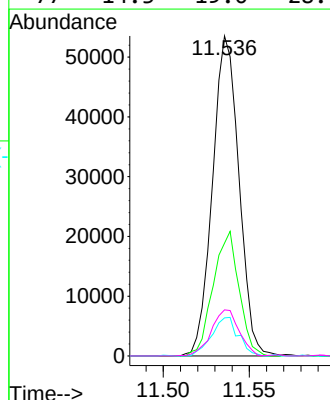
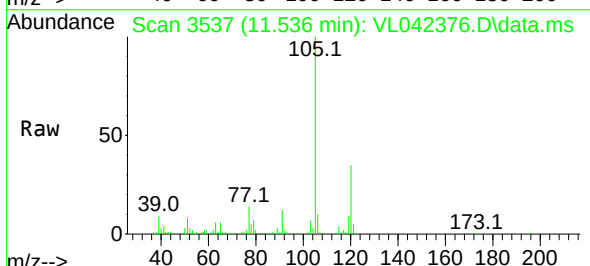
RT: 11.536 min Scan# 3537

Delta R.T. -0.003 min

Lab File: VL042376.D

Acq: 18 Apr 2025 01:30

Tgt Ion:105 Resp: 57208
 Ion Ratio Lower Upper
 105 100
 120 35.2 38.1 57.1#
 91 11.9 48.8 73.2#
 77 14.3 19.0 28.4#



Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-DUP-3-03312025DL2	SDG No.:	Q1726
Lab Sample ID:	Q1726-01DL2	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
VL042387.D	40		04/18/25 12:41	VL041825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	8.40	41.5	UD	41.5	98.9	ug/m3
64-17-5	Ethanol	220	415	DQ	24.1	37.7	ug/m3
74-87-3	Chloromethane	3.90	8.05	UD	8.05	41.3	ug/m3
75-01-4	Vinyl Chloride	0.56	1.43	UD	1.43	3.07	ug/m3
74-83-9	Bromomethane	5.60	21.7	UD	21.7	77.7	ug/m3
75-00-3	Chloroethane	6.80	17.9	UD	17.9	52.8	ug/m3
109-99-9	Tetrahydrofuran	5.20	15.3	UDQ	15.3	59.0	ug/m3
75-69-4	Trichlorofluoromethane	6.40	36.0	UD	36.0	112	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	6.40	49.0	UD	49.0	153	ug/m3
76-14-2	Dichlorotetrafluoroethane	3.50	24.5	UD	24.5	140	ug/m3
593-60-2	Bromoethene	4.80	21.0	UD	21.0	87.4	ug/m3
75-65-0	tert-Butyl alcohol	7.60	23.0	UD	23.0	60.6	ug/m3
142-82-5	Heptane	6.80	27.9	JDQ	18.0	82.0	ug/m3
67-63-0	Isopropyl Alcohol	29.3	72.0	D	6.88	49.2	ug/m3
75-35-4	1,1-Dichloroethene	5.60	22.2	UD	22.2	79.3	ug/m3
67-64-1	Acetone	490	1160	D	22.8	47.5	ug/m3
75-15-0	Carbon Disulfide	6.40	19.9	UD	19.9	62.3	ug/m3
1634-04-4	Methyl tert-Butyl Ether	4.80	17.3	UD	17.3	72.1	ug/m3
75-09-2	Methylene Chloride	7.60	26.4	UD	26.4	69.5	ug/m3
156-60-5	trans-1,2-Dichloroethene	7.60	30.1	UD	30.1	79.3	ug/m3
75-34-3	1,1-Dichloroethane	5.20	21.1	UD	21.1	81.0	ug/m3
110-82-7	Cyclohexane	8.80	30.3	UD	30.3	68.8	ug/m3
78-93-3	2-Butanone	4.80	14.2	UD	14.2	59.0	ug/m3
56-23-5	Carbon Tetrachloride	0.44	2.77	UD	2.77	7.55	ug/m3
156-59-2	cis-1,2-Dichloroethene	3.60	14.3	UD	14.3	79.3	ug/m3
67-66-3	Chloroform	3.30	16.1	UD	16.1	97.7	ug/m3
71-55-6	1,1,1-Trichloroethane	0.38	2.07	UD	2.07	6.55	ug/m3
540-84-1	2,2,4-Trimethylpentane	12.8	59.8	JD	18.7	93.4	ug/m3
71-43-2	Benzene	3.50	11.2	UD	11.2	63.9	ug/m3
107-06-2	1,2-Dichloroethane	3.60	14.6	UD	14.6	81.0	ug/m3
79-01-6	Trichloroethene	0.68	3.65	UD	3.65	6.45	ug/m3
78-87-5	1,2-Dichloropropane	4.40	20.3	UD	20.3	92.4	ug/m3
75-27-4	Bromodichloromethane	3.10	20.8	UD	20.8	134	ug/m3
108-10-1	4-Methyl-2-Pentanone	3.70	15.2	UD	15.2	82.0	ug/m3
108-88-3	Toluene	37.8	142	D	16.6	75.4	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-DUP-3-03312025DL2	SDG No.:	Q1726
Lab Sample ID:	Q1726-01DL2	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
VL042387.D	40		04/18/25 12:41	VL041825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	2.40	10.9	UD	10.9	90.8	ug/m3
10061-01-5	cis-1,3-Dichloropropene	2.60	11.8	UD	11.8	90.8	ug/m3
79-00-5	1,1,2-Trichloroethane	2.80	15.3	UD	15.3	109	ug/m3
124-48-1	Dibromochloromethane	2.60	22.1	UD	22.1	170	ug/m3
106-93-4	1,2-Dibromoethane	2.90	22.3	UD	22.3	30.7	ug/m3
127-18-4	Tetrachloroethene	0.60	4.07	UD	4.07	8.14	ug/m3
108-90-7	Chlorobenzene	3.00	13.8	UD	13.8	92.1	ug/m3
100-41-4	Ethyl Benzene	8.00	34.8	JD	20.9	86.9	ug/m3
179601-23-1	m/p-Xylene	28.6	124	JD	36.5	174	ug/m3
95-47-6	o-Xylene	11.4	49.5	JD	20.9	86.9	ug/m3
100-42-5	Styrene	4.40	18.7	UD	18.7	85.2	ug/m3
75-25-2	Bromoform	2.30	23.8	UD	23.8	207	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.44	3.02	UD	3.02	8.24	ug/m3
95-49-8	2-Chlorotoluene	4.40	22.8	UD	22.8	104	ug/m3
108-67-8	1,3,5-Trimethylbenzene	5.20	25.6	JD	21.6	98.3	ug/m3
95-63-6	1,2,4-Trimethylbenzene	14.4	70.8	JD	15.2	98.3	ug/m3
541-73-1	1,3-Dichlorobenzene	3.20	19.2	UD	19.2	120	ug/m3
106-46-7	1,4-Dichlorobenzene	2.10	12.6	UD	12.6	120	ug/m3
95-50-1	1,2-Dichlorobenzene	3.00	18.0	UD	18.0	120	ug/m3
120-82-1	1,2,4-Trichlorobenzene	3.40	25.2	UD	25.2	148	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	3.40	36.3	UD	36.3	213	ug/m3
106-99-0	1,3-Butadiene	5.20	11.5	UD	11.5	44.3	ug/m3
91-20-3	Naphthalene	3.00	15.7	UD	15.7	21.0	ug/m3
622-96-8	4-Ethyltoluene	4.80	23.6	UD	23.6	98.3	ug/m3
110-54-3	Hexane	4.40	15.5	UD	15.5	70.5	ug/m3
107-05-1	Allyl Chloride	6.00	18.8	UD	18.8	62.6	ug/m3
123-91-1	1,4-Dioxane	8.40	30.3	UD	30.3	72.1	ug/m3
80-62-6	Methyl Methacrylate	3.40	13.9	UDQ	13.9	81.9	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	133000	2.784
540-36-3	1,4-Difluorobenzene	411000	3.952
3114-55-4	Chlorobenzene-d5	358000	8.875

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-DUP-3-03312025DL2	SDG No.:	Q1726
Lab Sample ID:	Q1726-01DL2	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
VL042387.D	40		04/18/25 12:41	VL041825

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\VL041825\
 Data File : VL042387.D
 Acq On : 18 Apr 2025 12:41
 Operator : SY/MD
 Sample : Q1726-01DL2 40X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-DUP-3-03312025DL2

Quant Time: Apr 18 22:57:54 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

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 04/21/2025
 Supervised By : Mahesh Dadoda 04/21/2025

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

Internal Standards						
1) Bromochloromethane	2.784	49	133179	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	411086	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	357783	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	291643	9.920	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.200%
Target Compounds						
					Qvalue	
10) Heptane	4.968	43	4902m	0.171	ppbv	
13) Ethanol	1.719	45	9034	5.570	ppbv	89
15) Acetone	1.832	43	267863	12.286	ppbv	99
19) Isopropyl Alcohol	1.884	45	8878	0.733	ppbv #	1
44) 2,2,4-Trimethylpentane	4.629	57	24464	0.319	ppbv #	86
53) Toluene	6.923	91	50250	0.944	ppbv	99
58) Ethyl Benzene	9.348	91	14141m	0.199	ppbv	
59) m/p-Xylene	9.526	91	40839	0.715	ppbv	99
60) o-Xylene	9.959	91	16348	0.284	ppbv	94
72) 4-Ethyltoluene	11.121	105	7156	0.102	ppbv #	56
73) 1,3,5-Trimethylbenzene	11.199	105	8160m	0.131	ppbv	
74) 1,2,4-Trimethylbenzene	11.532	105	26096	0.360	ppbv #	64

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

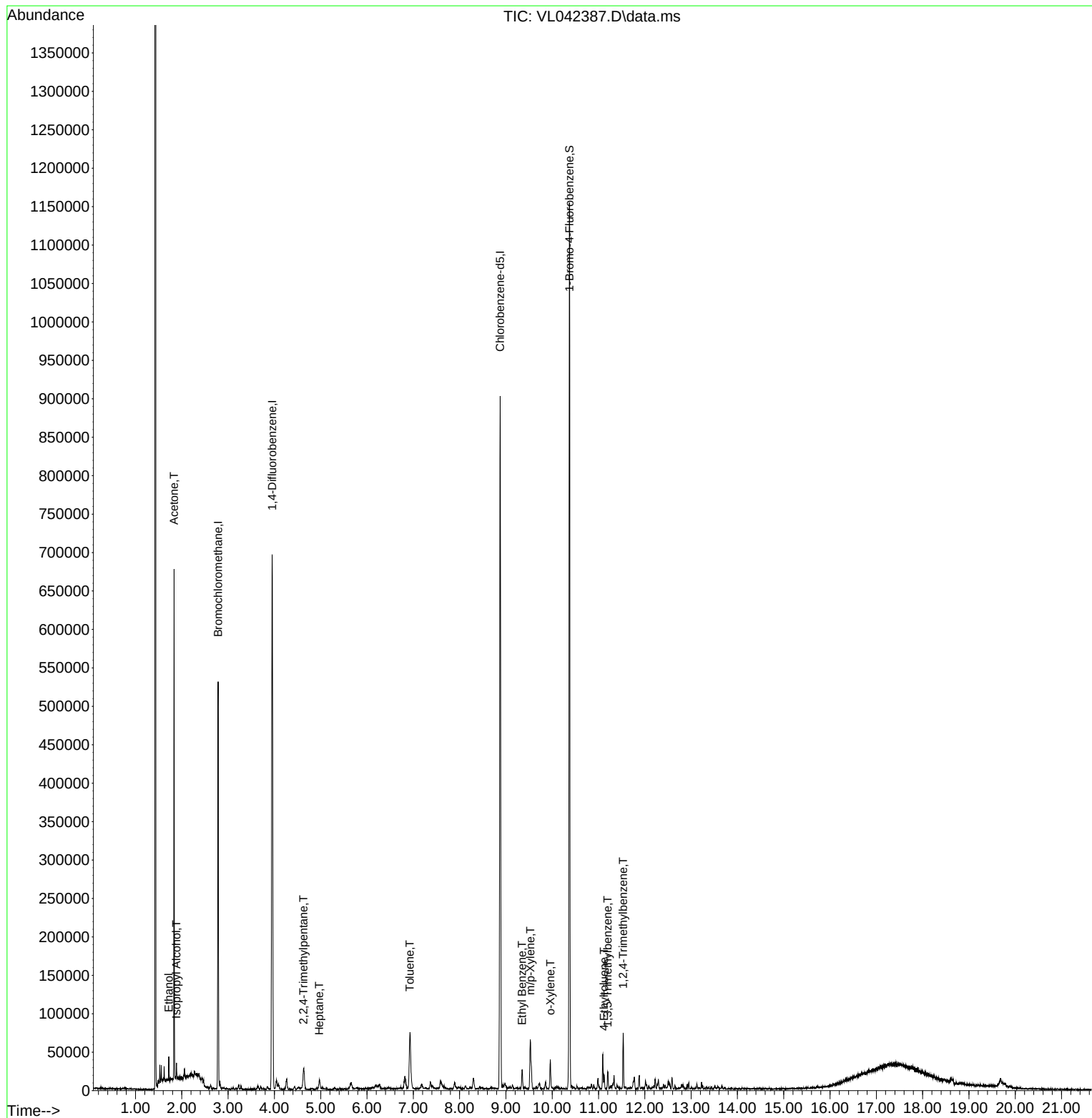
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
Data File : VL042387.D
Acq On : 18 Apr 2025 12:41
Operator : SY/MD
Sample : Q1726-01DL2 40X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

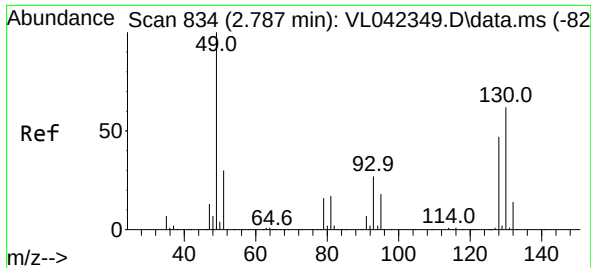
Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL2

Quant Time: Apr 18 22:57:54 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

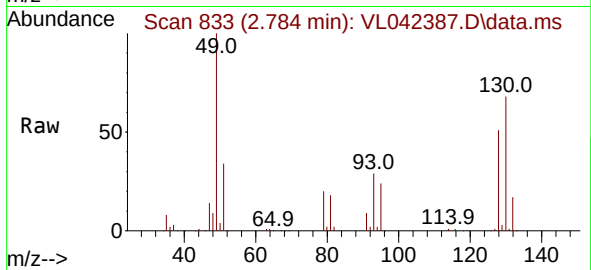
Reviewed By : Semsettin Yesilyurt 04/21/2025
Supervised By : Mahesh Dadoda 04/21/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL042387.D
Acq: 18 Apr 2025 12:41

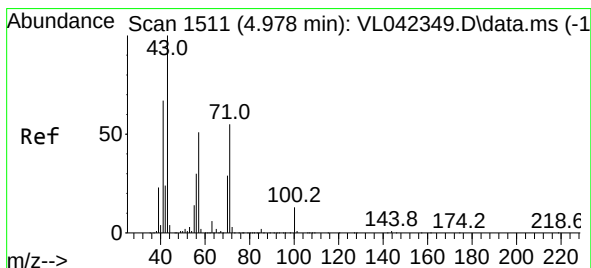
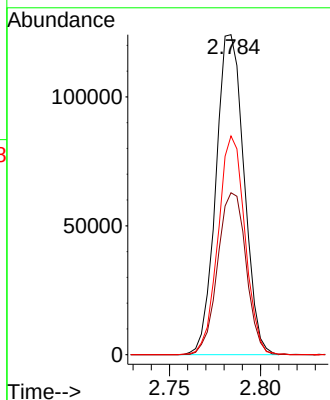
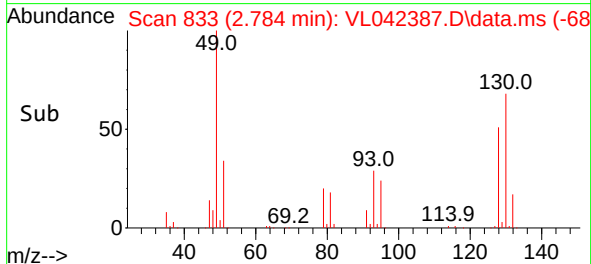
Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL2



Tgt Ion: 49 Resp: 133179
Ion Ratio Lower Upper
49 100
128 51.2 22.8 68.4
130 65.3 29.3 88.0

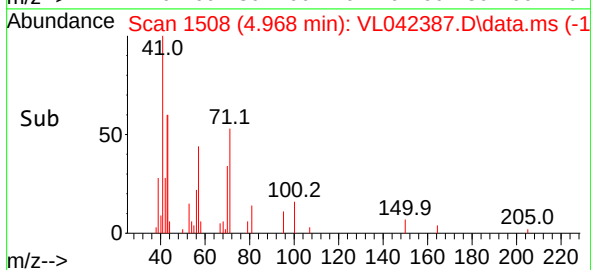
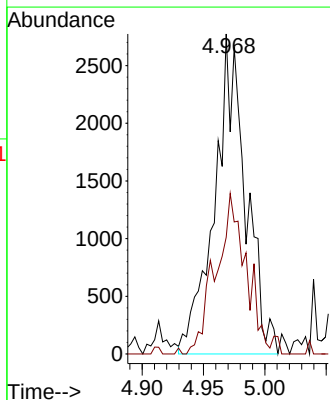
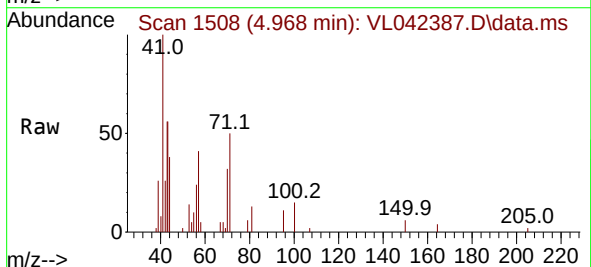
Manual Integrations
APPROVED

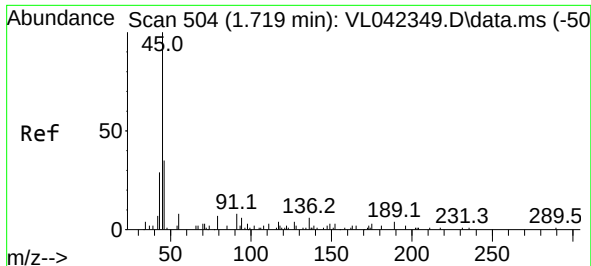
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025



#10
Heptane
Concen: 0.171 ppbv m
RT: 4.968 min Scan# 1508
Delta R.T. -0.010 min
Lab File: VL042387.D
Acq: 18 Apr 2025 12:41

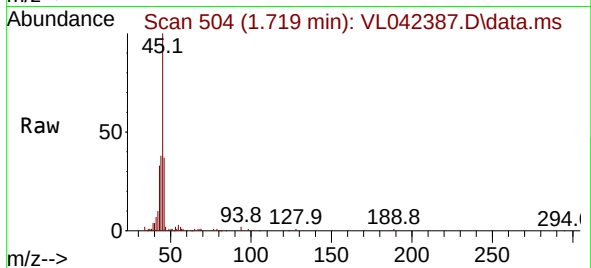
Tgt Ion: 43 Resp: 4902
Ion Ratio Lower Upper
43 100
57 49.8 39.9 59.9





#13
Ethanol
Concen: 5.570 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042387.D
Acq: 18 Apr 2025 12:41

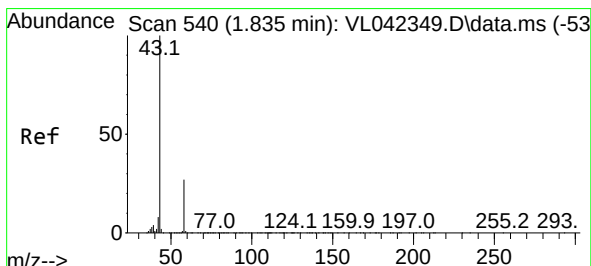
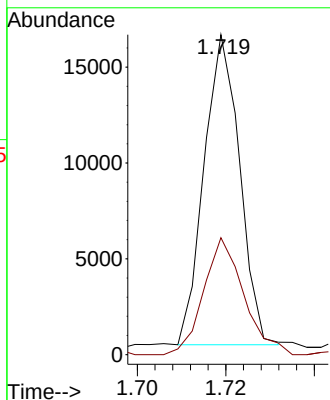
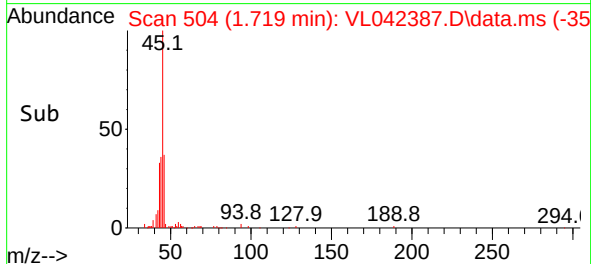
Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL2



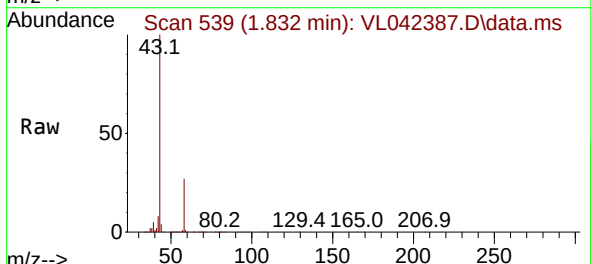
Tgt Ion: 45 Resp: 9034
Ion Ratio Lower Upper
45 100
46 46.7 21.9 87.7

Manual Integrations
APPROVED

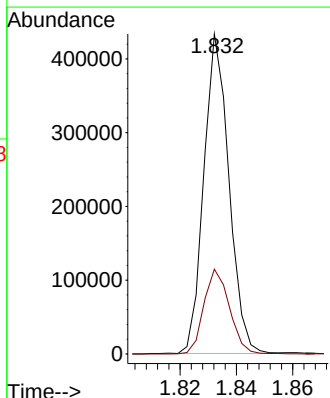
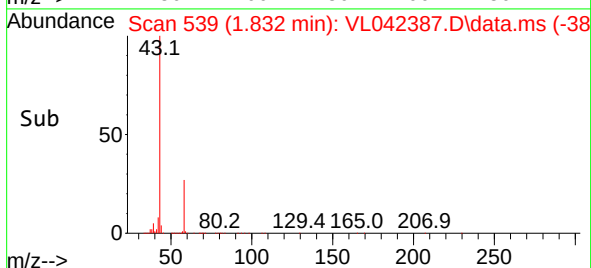
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

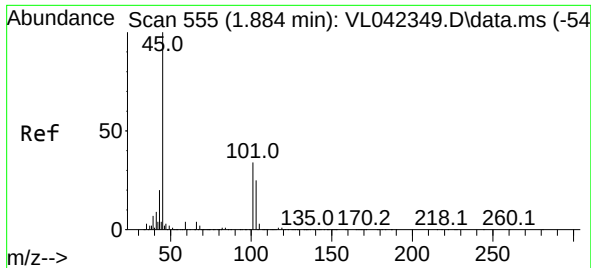


#15
Acetone
Concen: 12.286 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.003 min
Lab File: VL042387.D
Acq: 18 Apr 2025 12:41



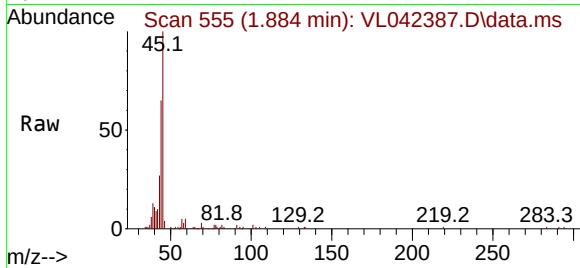
Tgt Ion: 43 Resp: 267863
Ion Ratio Lower Upper
43 100
58 27.3 22.4 33.6





#19
Isopropyl Alcohol
Concen: 0.733 ppbv
RT: 1.884 min Scan# 51
Delta R.T. 0.000 min
Lab File: VL042387.D
Acq: 18 Apr 2025 12:41

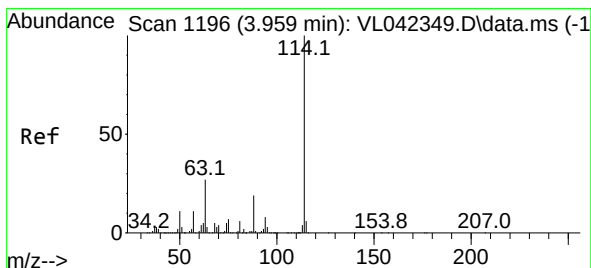
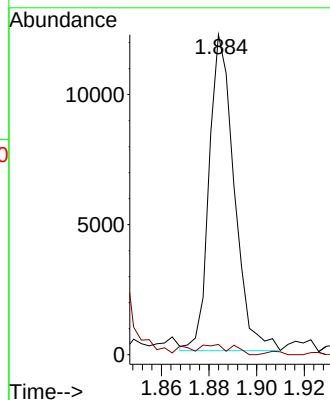
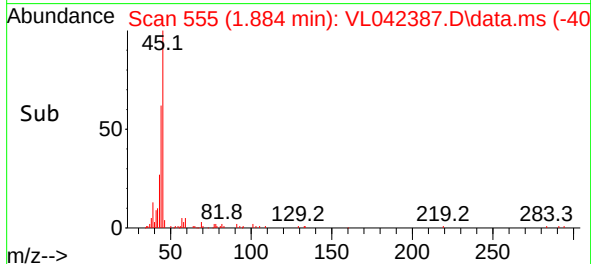
Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL2



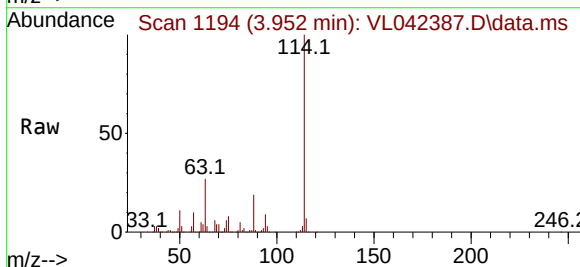
Tgt Ion: 45 Resp: 8878
Ion Ratio Lower Upper
45 100
58 823.5 34.5 51.75

Manual Integrations
APPROVED

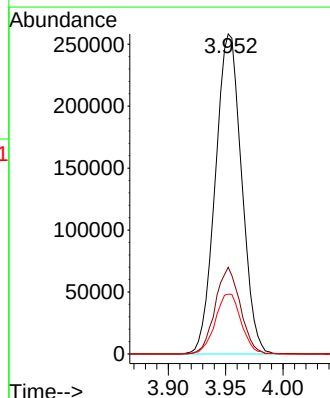
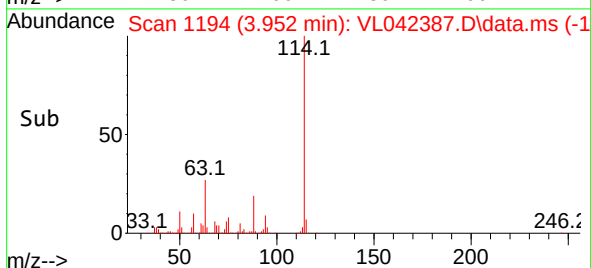
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

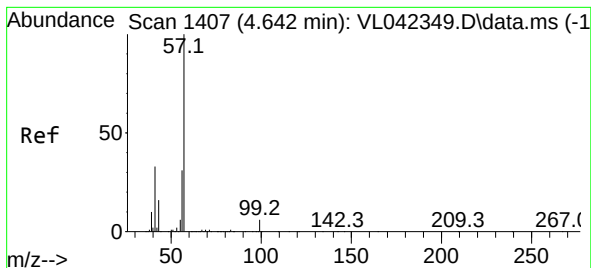


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. -0.006 min
Lab File: VL042387.D
Acq: 18 Apr 2025 12:41



Tgt Ion:114 Resp: 411086
Ion Ratio Lower Upper
114 100
63 25.9 21.8 32.6
88 18.5 15.5 23.3





#44

2,2,4-Trimethylpentane

Concen: 0.319 ppbv

RT: 4.629 min Scan# 1403

Delta R.T. -0.013 min

Lab File: VL042387.D

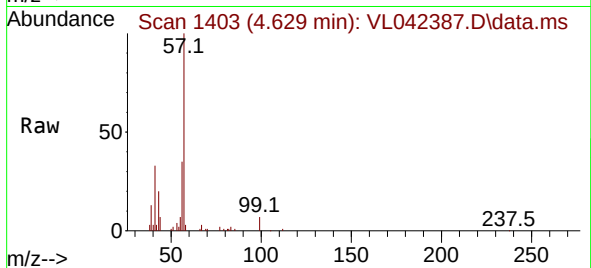
Acq: 18 Apr 2025 12:41

Instrument :

MSVOA_L

ClientSampleId :

IA-DUP-3-03312025DL2



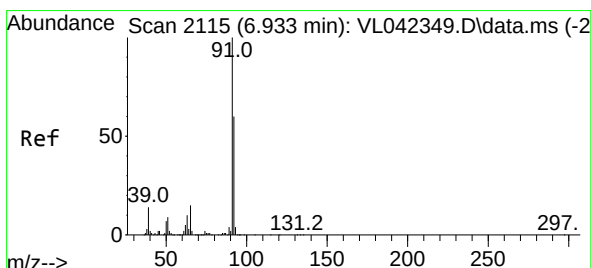
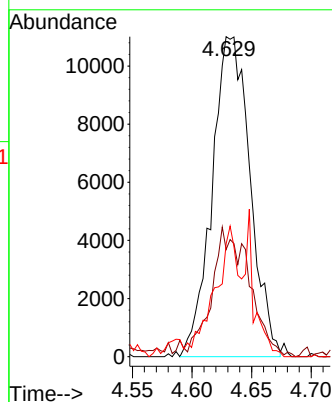
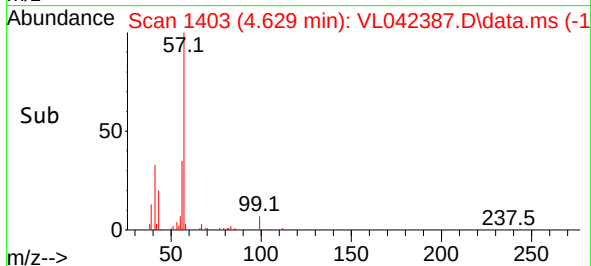
Tgt Ion:	57	Resp:	2446
Ion Ratio	100	Lower	Upper
57	100		
41	42.3	27.2	40.8
56	40.0	25.7	38.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2025

Supervised By :Mahesh Dadoda 04/21/2025



#53

Toluene

Concen: 0.944 ppbv

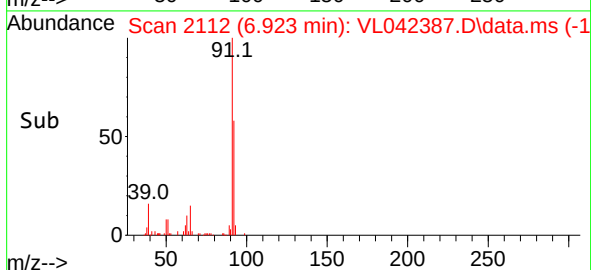
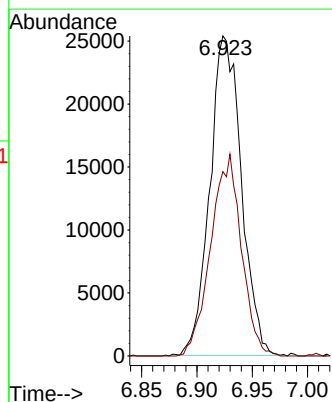
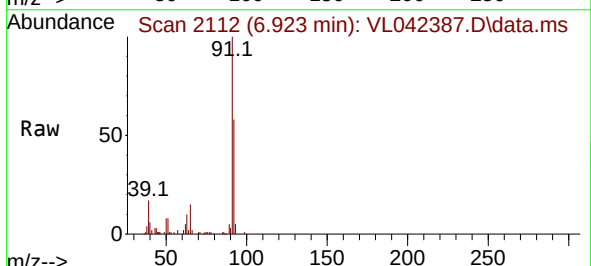
RT: 6.923 min Scan# 2112

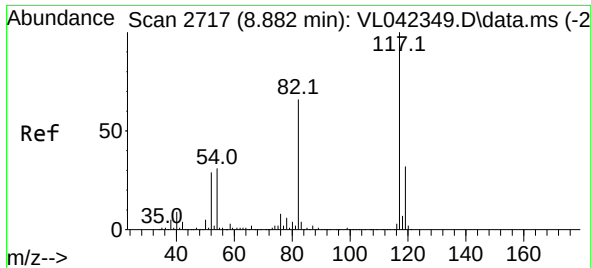
Delta R.T. -0.010 min

Lab File: VL042387.D

Acq: 18 Apr 2025 12:41

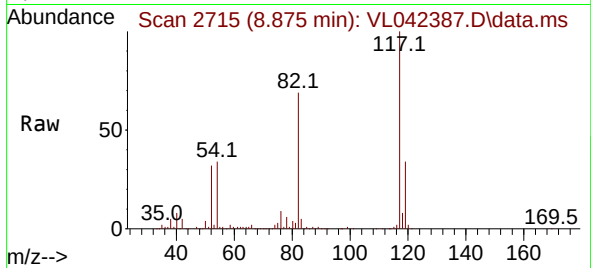
Tgt Ion:	91	Resp:	50250
Ion Ratio	100	Lower	Upper
91	100		
92	61.3	48.2	72.4





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. -0.006 min
Lab File: VL042387.D
Acq: 18 Apr 2025 12:41

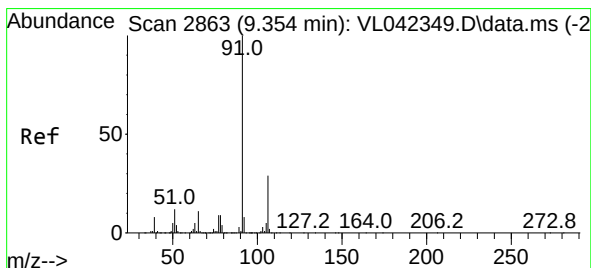
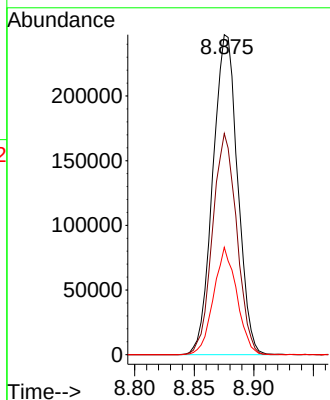
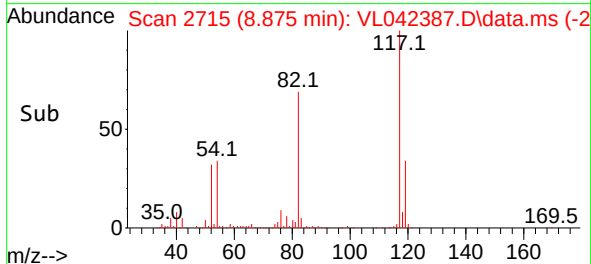
Instrument : MSVOA_L
ClientSampleId : IA-DUP-3-03312025DL2



Tgt Ion:117 Resp: 35778
Ion Ratio Lower Upper
117 100
82 67.6 57.8 86.6
119 31.5 25.2 37.8

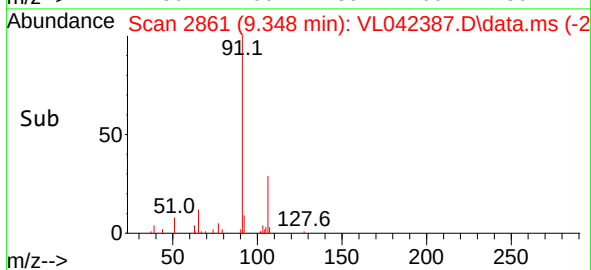
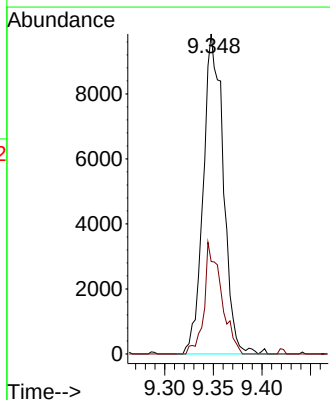
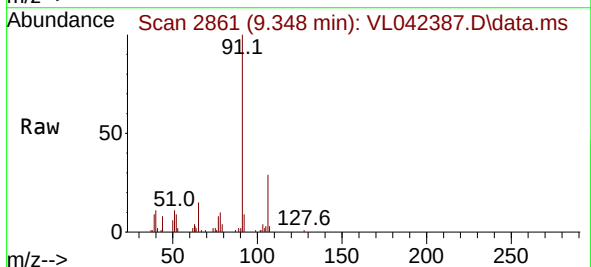
Manual Integrations
APPROVED

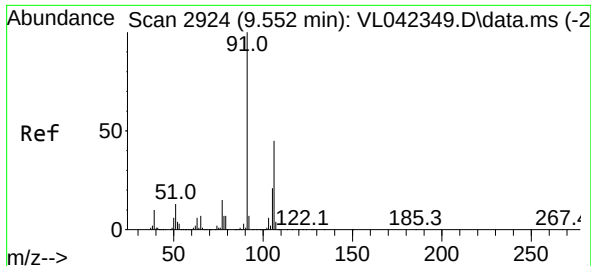
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025



#58
Ethyl Benzene
Concen: 0.199 ppbv m
RT: 9.348 min Scan# 2861
Delta R.T. -0.006 min
Lab File: VL042387.D
Acq: 18 Apr 2025 12:41

Tgt Ion: 91 Resp: 14141
Ion Ratio Lower Upper
91 100
106 28.9 23.0 34.4





#59

m/p-Xylene

Concen: 0.715 ppbv

RT: 9.526 min Scan# 2916

Delta R.T. -0.026 min

Lab File: VL042387.D

Acq: 18 Apr 2025 12:41

Instrument :

MSVOA_L

ClientSampleId :

IA-DUP-3-03312025DL2

Tgt Ion: 91 Resp: 40839

Ion Ratio Lower Upper

91 100

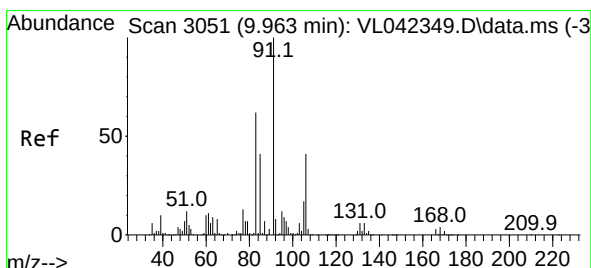
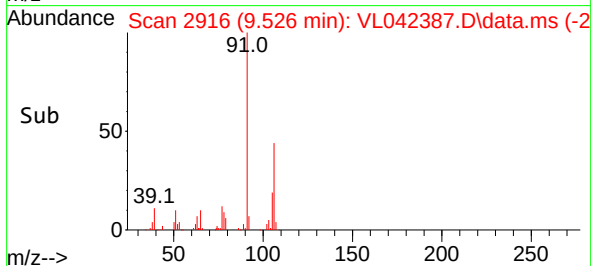
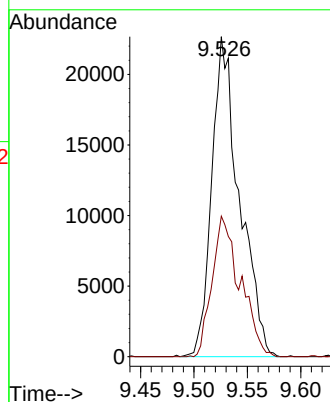
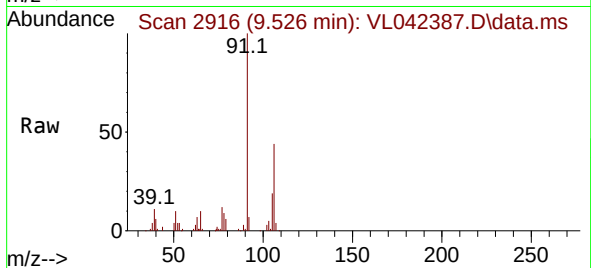
106 44.7 35.4 53.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2025

Supervised By :Mahesh Dadoda 04/21/2025



#60

o-Xylene

Concen: 0.284 ppbv

RT: 9.959 min Scan# 3050

Delta R.T. -0.003 min

Lab File: VL042387.D

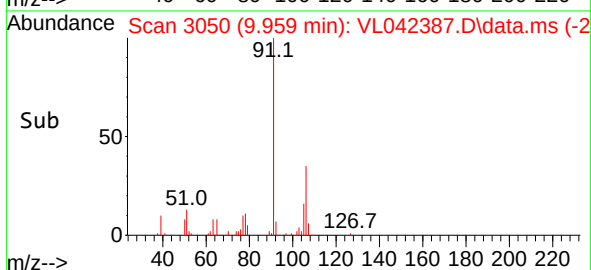
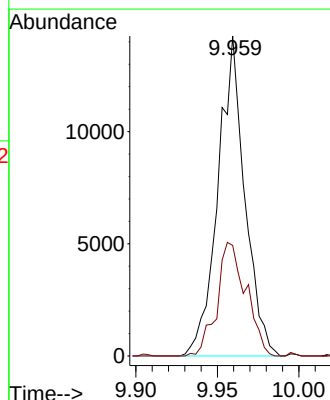
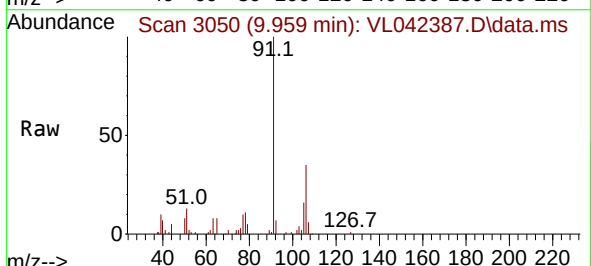
Acq: 18 Apr 2025 12:41

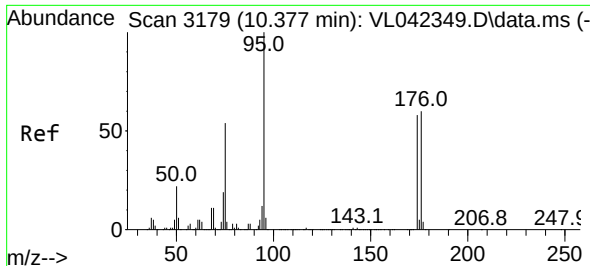
Tgt Ion: 91 Resp: 16348

Ion Ratio Lower Upper

91 100

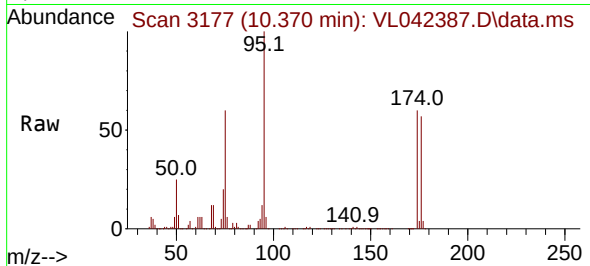
106 38.7 21.1 63.4





#68
1-Bromo-4-Fluorobenzene
Concen: 9.920 ppbv
RT: 10.370 min Scan# 3179
Delta R.T. -0.006 min
Lab File: VL042387.D
Acq: 18 Apr 2025 12:41

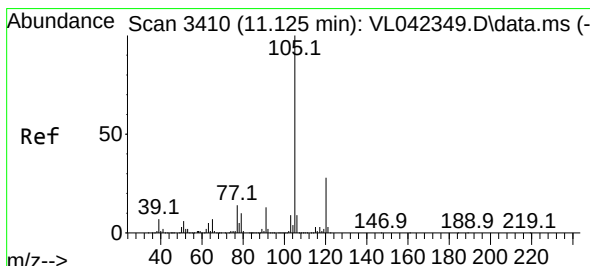
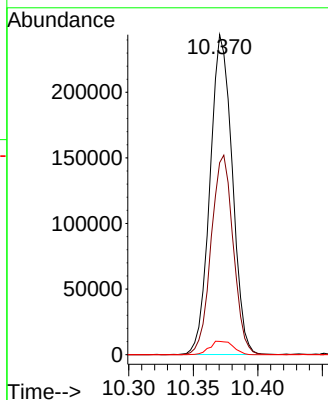
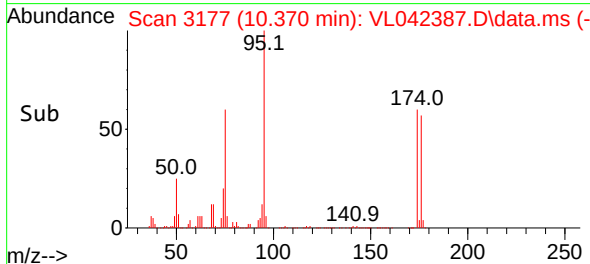
Instrument : MSVOA_L
ClientSampleId : IA-DUP-3-03312025DL2



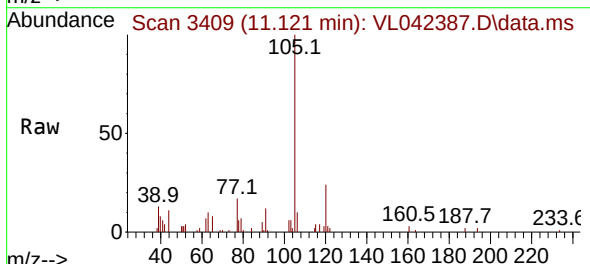
Tgt Ion: 95 Resp: 29164
Ion Ratio Lower Upper
95 100
174 62.1 48.5 72.7
175 4.5 3.7 5.5

Manual Integrations
APPROVED

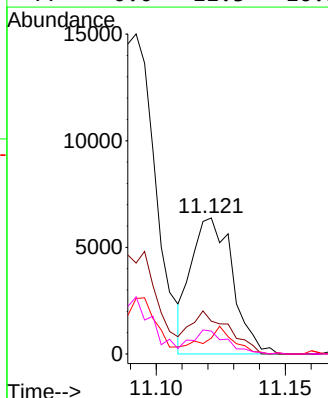
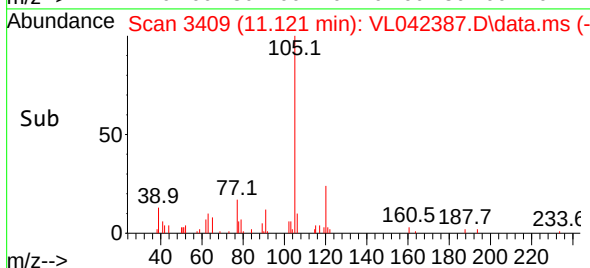
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

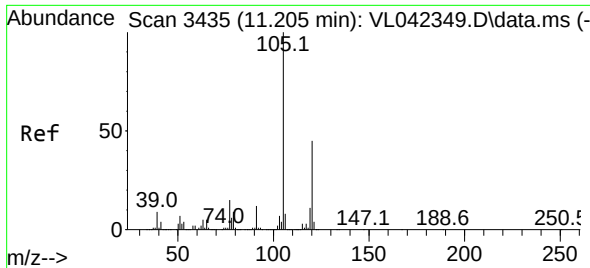


#72
4-Ethyltoluene
Concen: 0.102 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.003 min
Lab File: VL042387.D
Acq: 18 Apr 2025 12:41



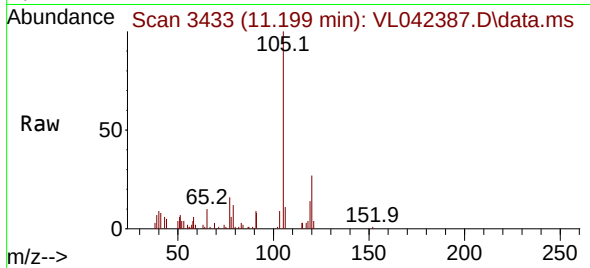
Tgt Ion:105 Resp: 7156
Ion Ratio Lower Upper
105 100
120 0.0 23.2 34.8#
91 0.0 10.4 15.6#
77 0.0 11.3 16.9#





#73
1,3,5-Trimethylbenzene
Concen: 0.131 ppbv m
RT: 11.199 min Scan# 3435
Delta R.T. -0.006 min
Lab File: VL042387.D
Acq: 18 Apr 2025 12:41

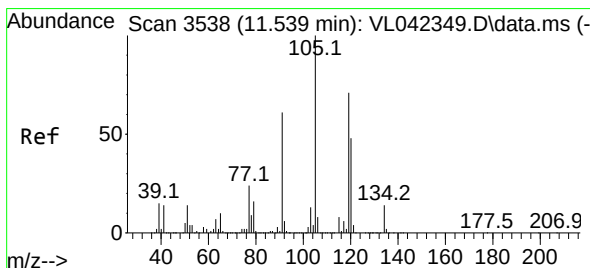
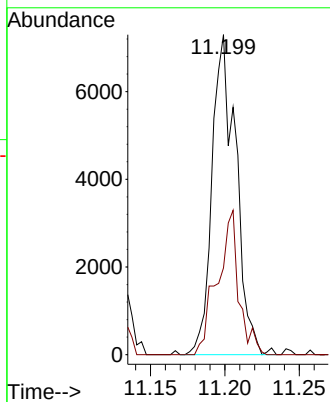
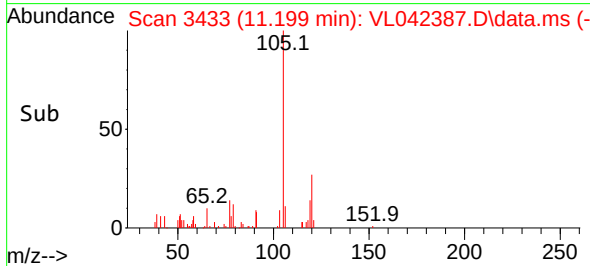
Instrument : MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL2



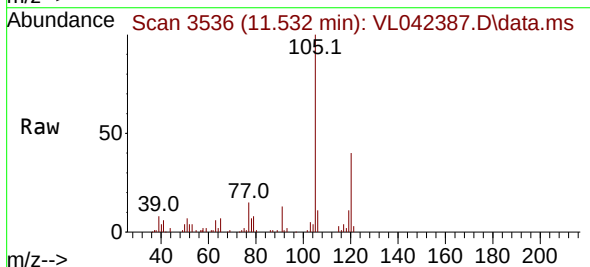
Tgt Ion:105 Resp: 8160
Ion Ratio Lower Upper
105 100
120 27.1 35.6 53.4

Manual Integrations
APPROVED

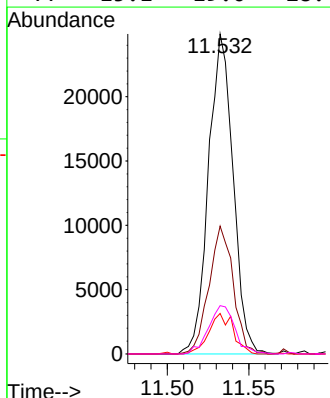
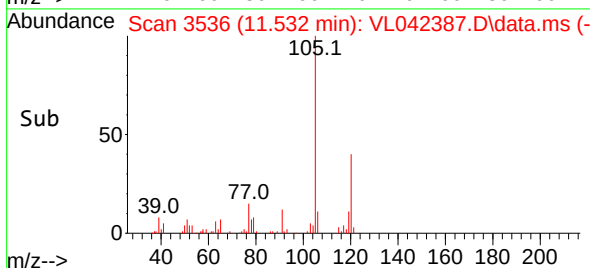
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025



#74
1,2,4-Trimethylbenzene
Concen: 0.360 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. -0.006 min
Lab File: VL042387.D
Acq: 18 Apr 2025 12:41



Tgt Ion:105 Resp: 26096
Ion Ratio Lower Upper
105 100
120 40.0 38.1 57.1
91 12.6 48.8 73.2#
77 15.1 19.0 28.4#



Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-6-03312025	SDG No.:	Q1726
Lab Sample ID:	Q1726-02	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
VL042367.D	1		04/17/25 20:38	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.49	2.42	J	1.04	2.47	ug/m3
64-17-5	Ethanol	240	452	EQ	0.60	0.94	ug/m3
74-87-3	Chloromethane	4.90	10.1		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	0.45	1.33	J	0.38	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.23	1.29	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
593-60-2	Bromoethene	0.12	0.52	U	0.52	2.19	ug/m3
75-65-0	tert-Butyl alcohol	1.10	3.33		0.58	1.52	ug/m3
142-82-5	Heptane	6.60	27.1		0.45	2.05	ug/m3
67-63-0	Isopropyl Alcohol	24.7	60.7	E	0.17	1.23	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
67-64-1	Acetone	130	309	E	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	7.00	24.3		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	1.90	5.60		0.35	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.10	0.63		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	0.37	1.81	J	0.39	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	0.070	0.38		0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	14.5	67.7		0.47	2.34	ug/m3
71-43-2	Benzene	1.70	5.43		0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.17	0.69	J	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	39.7	150	E	0.41	1.88	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-6-03312025	SDG No.:	Q1726
Lab Sample ID:	Q1726-02	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
VL042367.D	1		04/17/25 20:38	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
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
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	0.11	0.75		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	8.60	37.4		0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	29.5	128		0.91	4.34	ug/m3
95-47-6	o-Xylene	11.6	50.4		0.52	2.17	ug/m3
100-42-5	Styrene	0.32	1.36	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	0.89	4.61		0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	5.30	26.1		0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	14.9	73.3		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	0.22	1.32	J	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	1.70	8.91		0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	4.40	21.6		0.59	2.46	ug/m3
110-54-3	Hexane	7.00	24.7		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	118000	2.787
540-36-3	1,4-Difluorobenzene	335000	3.959
3114-55-4	Chlorobenzene-d5	297000	8.878

TENTATIVE IDENTIFIED COMPOUNDS

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-6-03312025	SDG No.:	Q1726
Lab Sample ID:	Q1726-02	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
VL042367.D	1		04/17/25 20:38	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
75-45-6	Chlorodifluoromethane	0.22		J		1.48	ppbv
115-07-1	Propene	2.60		J		1.49	ppbv
000106-97-8	Butane	12.1		J		1.62	ppbv
000107-83-5	Pentane, 2-methyl-	5.90		J		2.47	ppbv
000591-76-4	Hexane, 2-methyl-	8.20		J		4.05	ppbv
000589-34-4	Hexane, 3-methyl-	9.10		J		4.27	ppbv
000108-87-2	Cyclohexane, methyl-	7.40		J		5.66	ppbv
000565-75-3	Pentane, 2,3,4-trimethyl-	9.90		J		6.82	ppbv
000589-81-1	Heptane, 3-methyl-	7.10		J		7.60	ppbv
003522-94-9	Hexane, 2,2,5-trimethyl-	5.20		J		7.89	ppbv
000111-65-9	Octane	7.50		J		8.30	ppbv
98-82-8	Isopropylbenzene	0.74		J		10.5	ppbv
103-65-1	n-propylbenzene	2.60		J		11.0	ppbv
135-98-8	sec-Butylbenzene	0.18		J		11.8	ppbv
99-87-6	p-Isopropyltoluene	0.32		J		11.9	ppbv
104-51-8	n-Butylbenzene	0.94		J		12.3	ppbv
000874-41-9	Benzene, 1-ethyl-2,4-dimethyl-	5.70		J		12.6	ppbv
91-57-6	Naphthalene,2-methyl-	0.77		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 : VL042367.D
 Acq On : 17 Apr 2025 20:38
 Operator : SY/MD
 Sample : Q1726-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-6-03312025

Manual Integrations
 APPROVED

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

Quant Time: Apr 18 02:43:05 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	117602	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	335422	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	296955	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.374 95 247280 10.134 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	10227	0.492	ppbv	93
3) Chlorodifluoromethane	1.476	51	4416m	0.223	ppbv	
4) Chloromethane	1.531	50	40465	4.921	ppbv	97
9) Propene	1.486	41	23304m	2.586	ppbv	
10) Heptane	4.978	43	167433	6.614	ppbv	98
11) Trichlorofluoromethane	1.874	101	4482	0.227	ppbv	97
13) Ethanol	1.722	45	349355	243.933	ppbv	76
15) Acetone	1.832	43	2494566	129.576	ppbv #	62
17) tert-Butyl alcohol	2.042	59	25593	1.073	ppbv	98
19) Isopropyl Alcohol	1.884	45	264094	24.694	ppbv #	33
20) Methylene Chloride	2.062	84	53039	7.035	ppbv	95
26) Hexane	2.826	57	134610	7.007	ppbv #	35
29) Chloroform	2.848	83	9936m	0.366	ppbv	
30) Cyclohexane	3.858	84	26517m	1.708	ppbv	
32) 1,1,1-Trichloroethane	3.369	97	2187m	0.072	ppbv	
34) 2-Butanone	2.557	43	50219	1.893	ppbv	97
35) Carbon Tetrachloride	3.761	117	3127m	0.103	ppbv	
36) Benzene	3.654	78	61349	1.696	ppbv #	96
37) 1,2-Dichloroethane	3.217	62	3633	0.167	ppbv #	88
41) Tetrahydrofuran	3.062	42	6945	0.449	ppbv #	76
44) 2,2,4-Trimethylpentane	4.638	57	905076	14.485	ppbv	94
52) Tetrachloroethene	8.224	164	1554m	0.111	ppbv	
53) Toluene	6.933	91	1722699	39.680	ppbv	100
58) Ethyl Benzene	9.354	91	505495	8.592	ppbv	100
59) m/p-Xylene	9.529	91	1399337	29.524	ppbv	99
60) o-Xylene	9.963	91	552991	11.586	ppbv	99
61) Styrene	9.869	104	7256	0.319	ppbv	95
62) Isopropylbenzene	10.539	105	52108	0.744	ppbv	99
64) n-propylbenzene	10.989	120	45701	2.595	ppbv	95
67) sec-Butylbenzene	11.769	105	15818	0.177	ppbv #	76
69) p-Isopropyltoluene	11.924	119	24554	0.315	ppbv	96
70) n-Butylbenzene	12.286	91	76213	0.940	ppbv #	38
71) 2-Chlorotoluene	10.901	91	48685	0.886	ppbv	98
72) 4-Ethyltoluene	11.124	105	257296	4.410	ppbv #	56
73) 1,3,5-Trimethylbenzene	11.202	105	275258	5.343	ppbv	97
74) 1,2,4-Trimethylbenzene	11.536	105	895635	14.886	ppbv #	65
76) 1,4-Dichlorobenzene	11.671	146	6955	0.221	ppbv #	69
79) Naphthalene	13.513	128	122970	1.709	ppbv	99
80) Naphthalene,2-methyl-	14.458	142	31538	0.769	ppbv	93

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

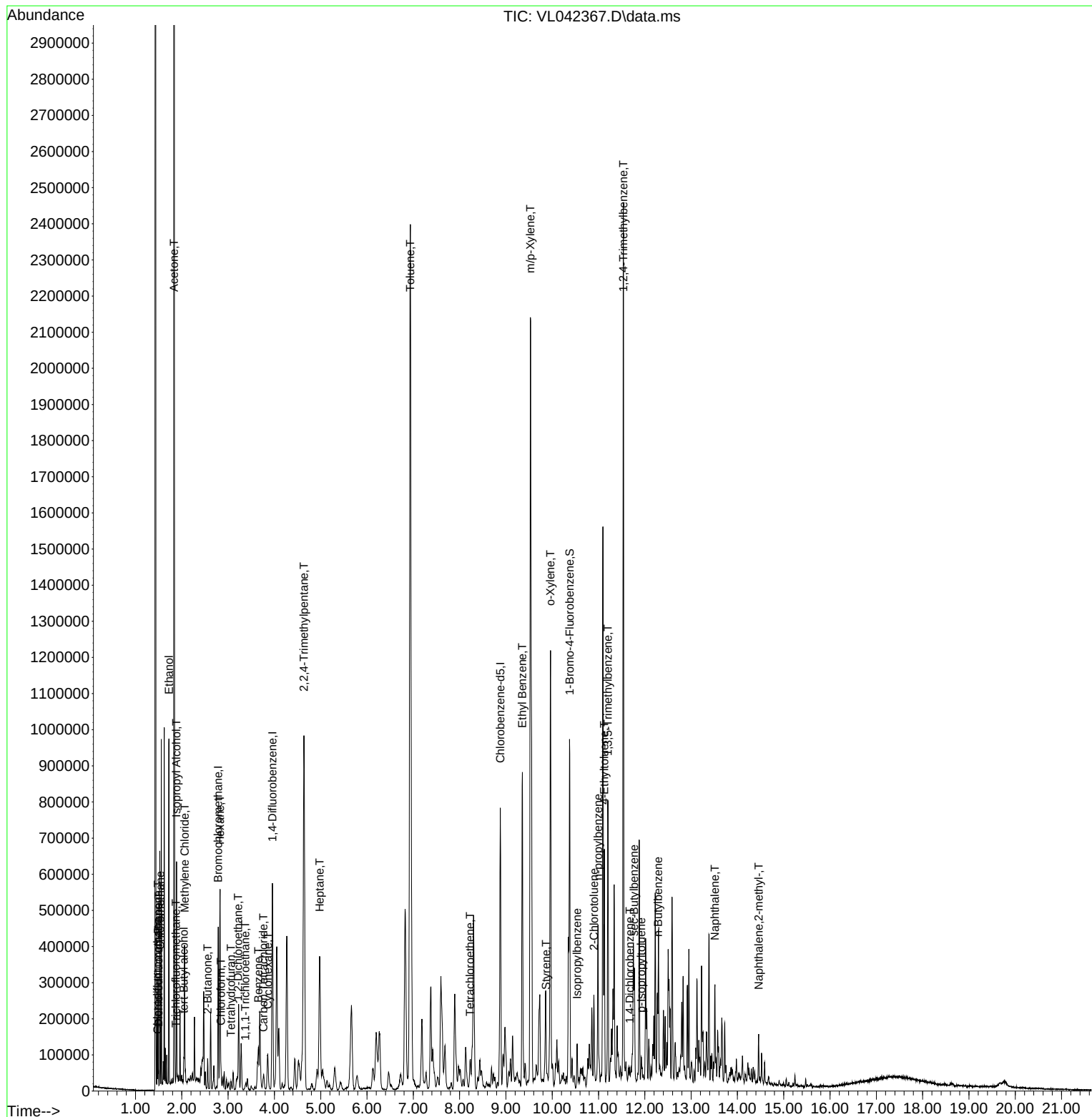
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042367.D
Acq On : 17 Apr 2025 20:38
Operator : SY/MD
Sample : Q1726-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

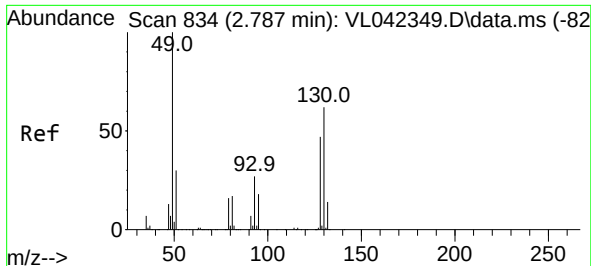
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

Quant Time: Apr 18 02:43:05 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

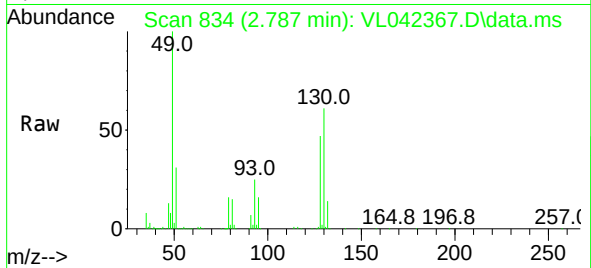
Reviewed By : Semsettin Yesilyurt 04/18/2025
Supervised By : Mahesh Dadoda 04/18/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 834
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

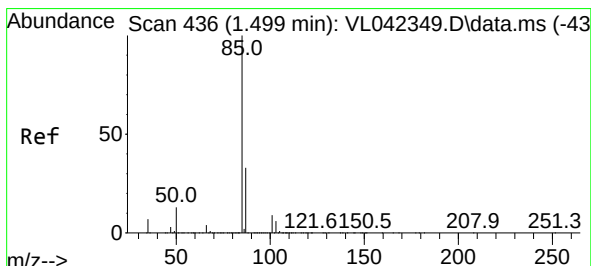
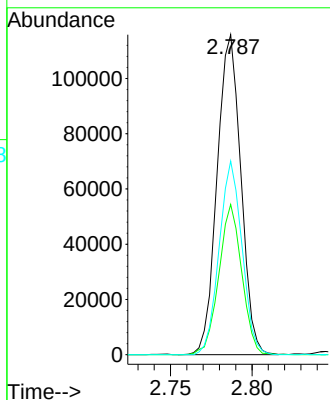
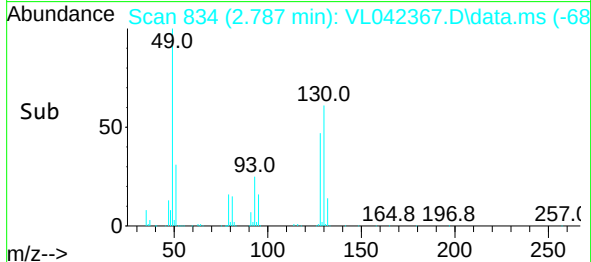
Instrument : MSVOA_L
ClientSampleId : IA-B2-6-03312025



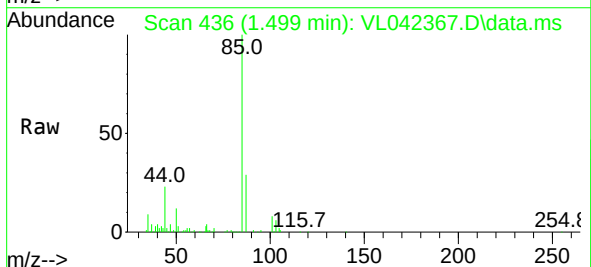
Tgt Ion: 49 Resp: 117602
Ion Ratio Lower Upper
49 100
128 45.1 22.8 68.4
130 58.1 29.3 88.0

Manual Integrations
APPROVED

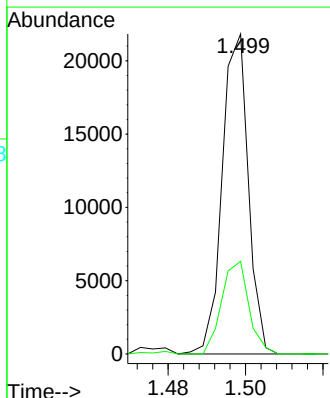
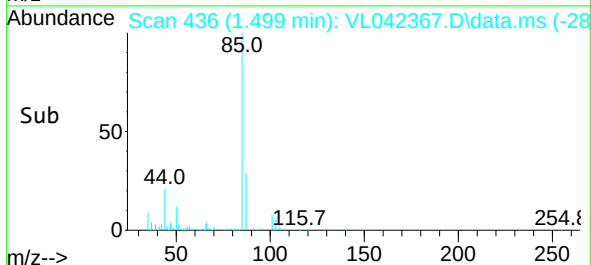
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

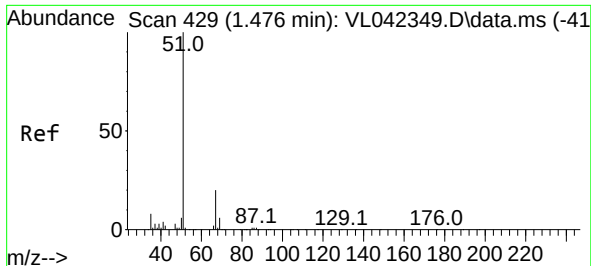


#2
Dichlorodifluoromethane
Concen: 0.492 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38



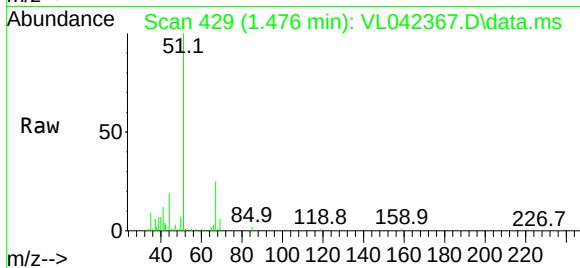
Tgt Ion: 85 Resp: 10227
Ion Ratio Lower Upper
85 100
87 29.0 26.6 39.8





#3
Chlorodifluoromethane
Concen: 0.223 ppbv m
RT: 1.476 min Scan# 429
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

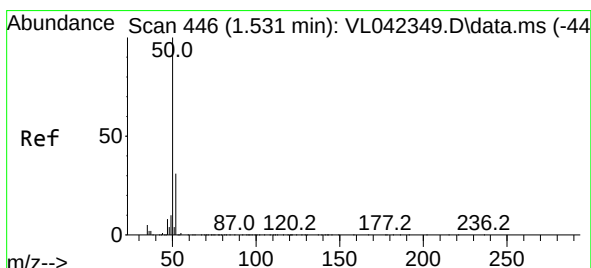
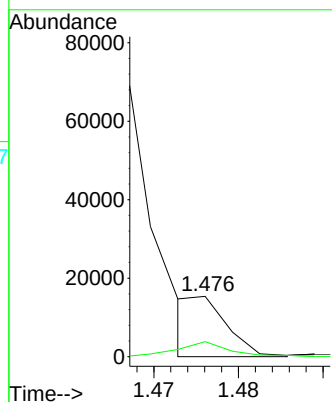
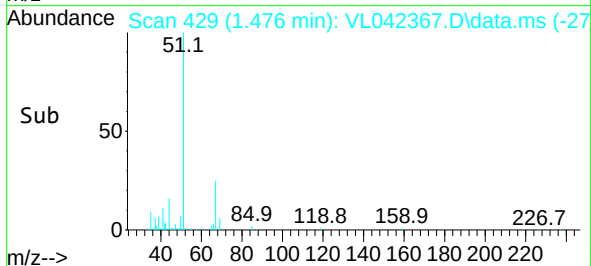
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025



Tgt Ion: 51 Resp: 4410
Ion Ratio Lower Upper
51 100
67 12.5 16.2 24.4

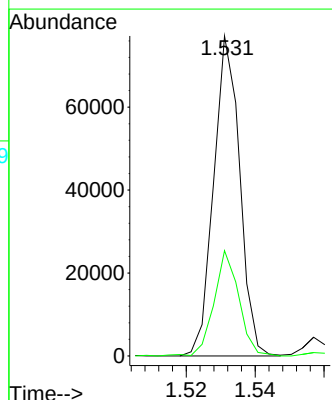
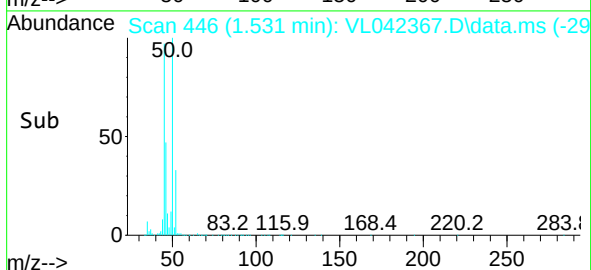
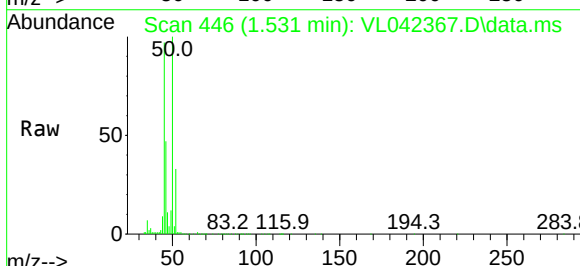
Manual Integrations
APPROVED

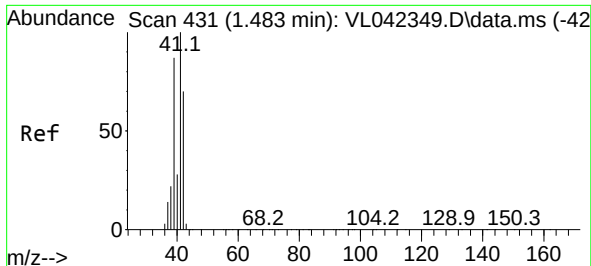
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#4
Chloromethane
Concen: 4.921 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

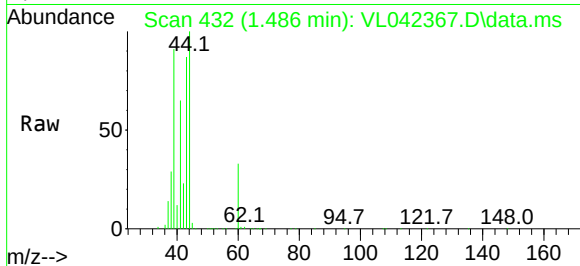
Tgt Ion: 50 Resp: 40465
Ion Ratio Lower Upper
50 100
52 32.7 24.7 37.1





#9
 Propene
 Concen: 2.586 ppbv m
 RT: 1.486 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL042367.D
 Acq: 17 Apr 2025 20:38

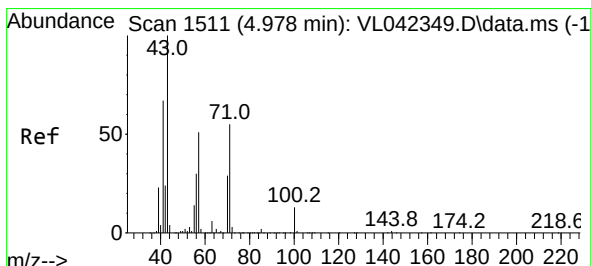
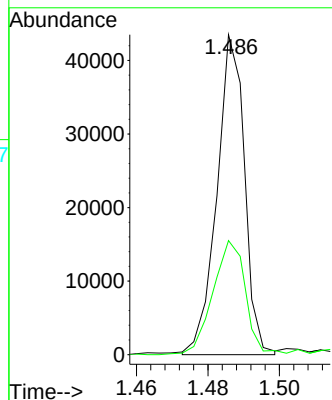
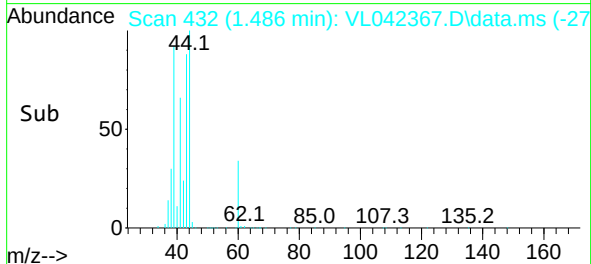
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-6-03312025



Tgt Ion: 41 Resp: 23304
 Ion Ratio Lower Upper
 41 100
 42 269.3 56.2 84.4

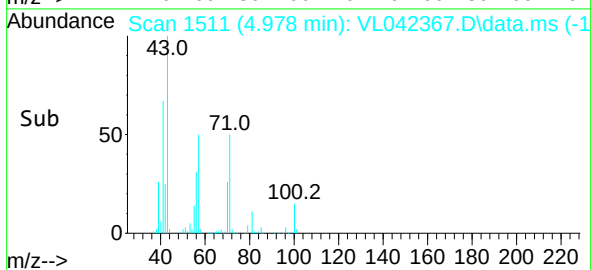
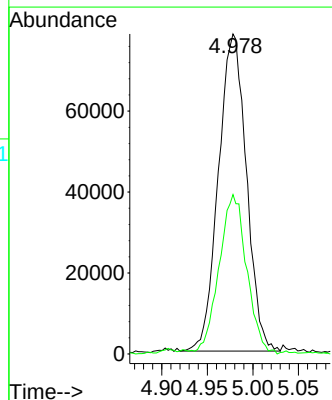
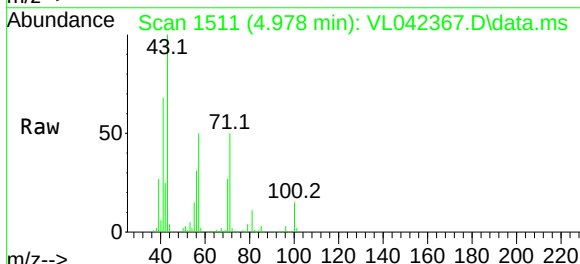
Manual Integrations
 APPROVED

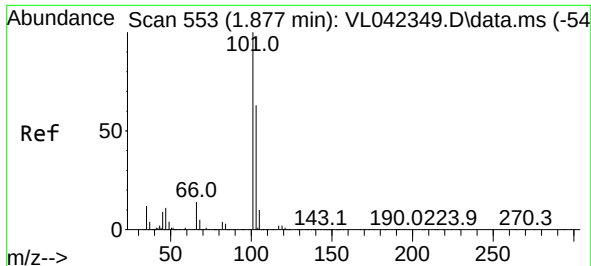
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#10
 Heptane
 Concen: 6.614 ppbv
 RT: 4.978 min Scan# 1511
 Delta R.T. -0.000 min
 Lab File: VL042367.D
 Acq: 17 Apr 2025 20:38

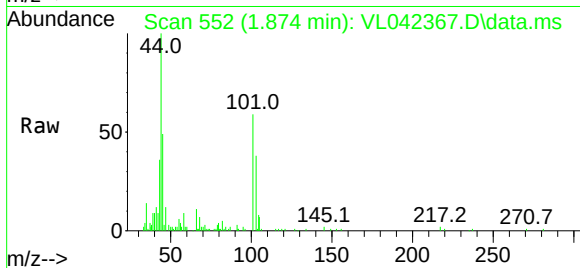
Tgt Ion: 43 Resp: 167433
 Ion Ratio Lower Upper
 43 100
 57 51.5 39.9 59.9





#11
Trichlorofluoromethane
Concen: 0.227 ppbv
RT: 1.874 min Scan# 505
Delta R.T. -0.003 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

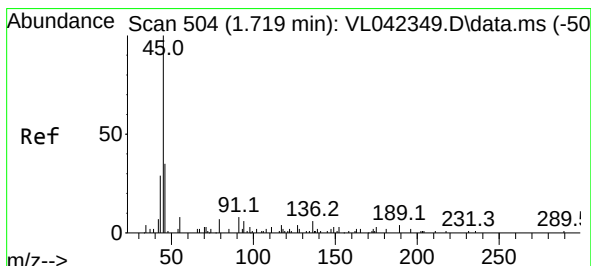
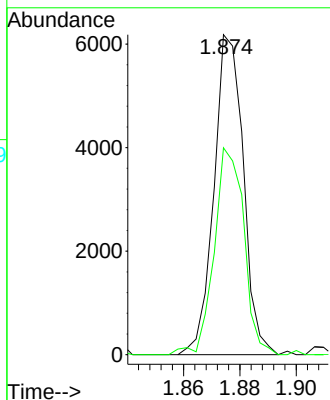
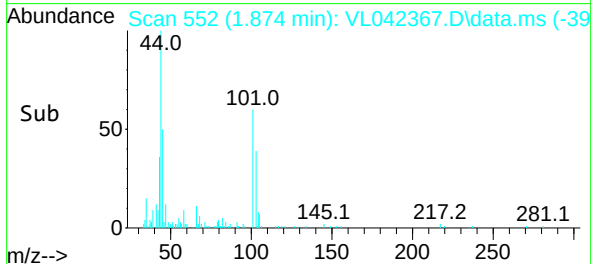
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025



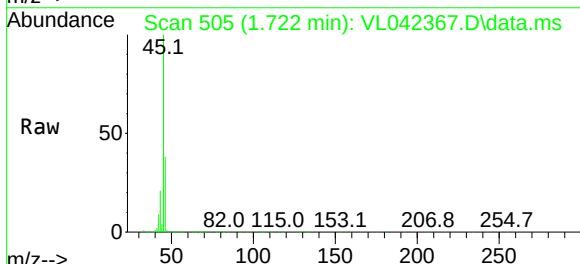
Tgt Ion:101 Resp: 448
Ion Ratio Lower Upper
101 100
103 64.6 50.1 75.1

Manual Integrations
APPROVED

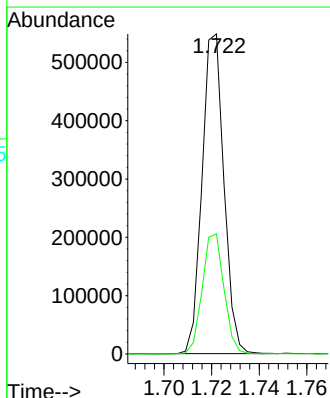
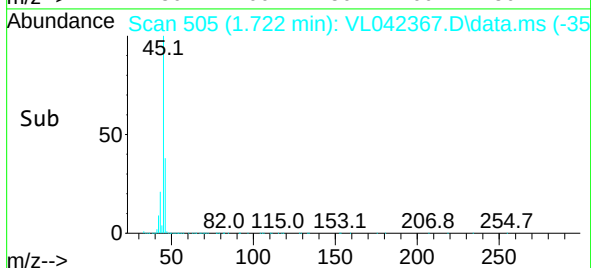
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

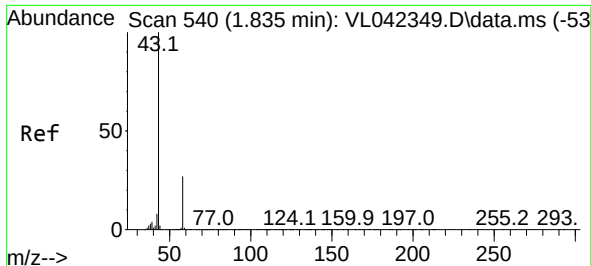


#13
Ethanol
Concen: 243.933 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38



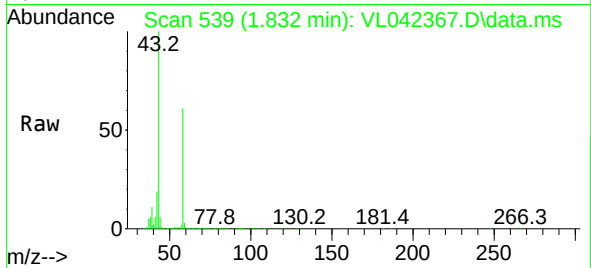
Tgt Ion: 45 Resp: 349355
Ion Ratio Lower Upper
45 100
46 37.6 21.9 87.7





#15
Acetone
Concen: 129.576 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.003 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

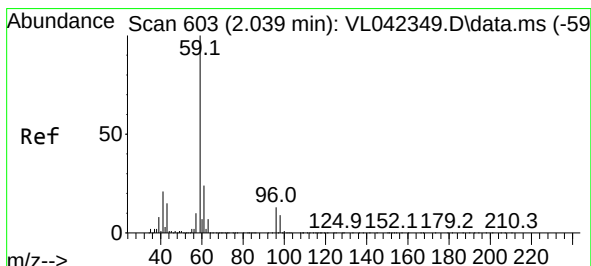
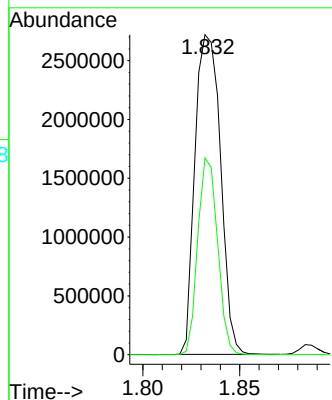
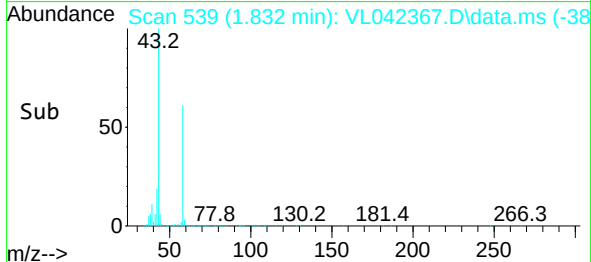
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025



Tgt Ion: 43 Resp: 249456
Ion Ratio Lower Upper
43 100
58 48.0 22.4 33.6

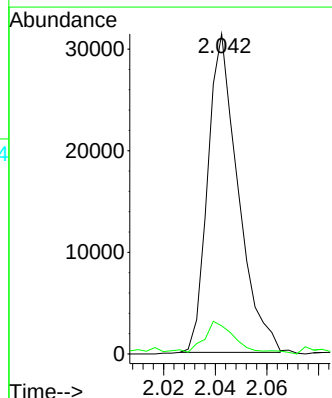
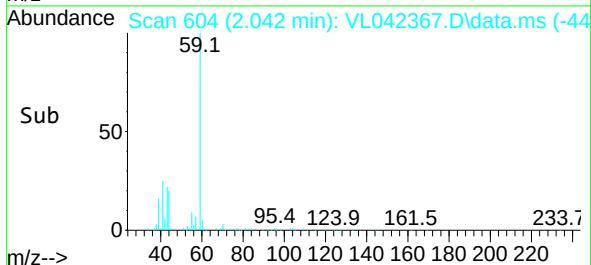
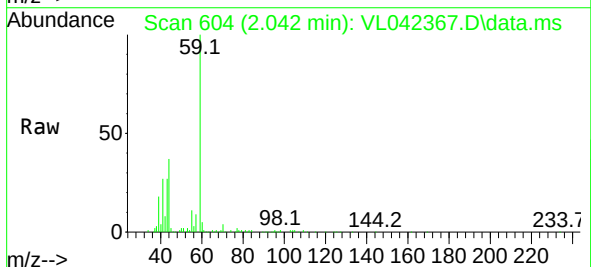
Manual Integrations
APPROVED

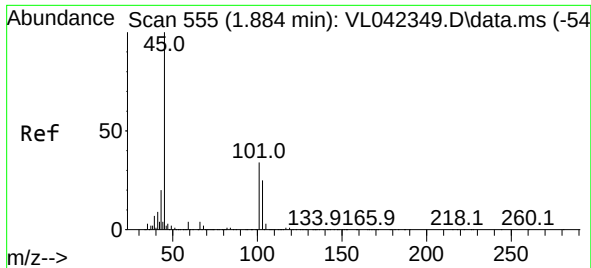
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#17
tert-Butyl alcohol
Concen: 1.073 ppbv
RT: 2.042 min Scan# 604
Delta R.T. 0.003 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

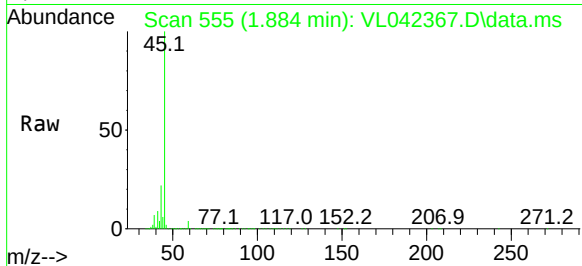
Tgt Ion: 59 Resp: 25593
Ion Ratio Lower Upper
59 100
57 11.5 8.7 13.1





#19
Isopropyl Alcohol
Concen: 24.694 ppbv
RT: 1.884 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

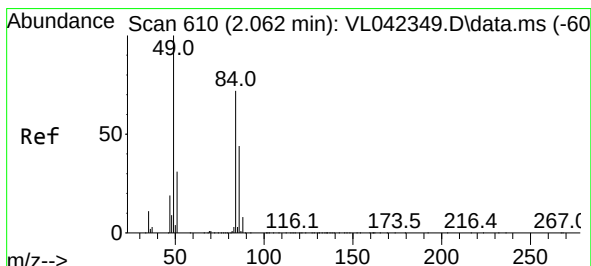
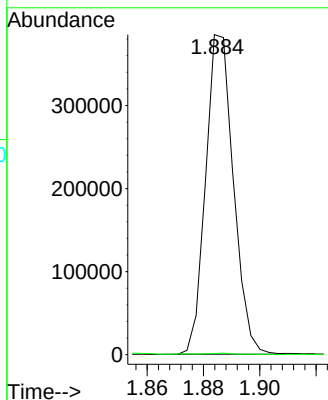
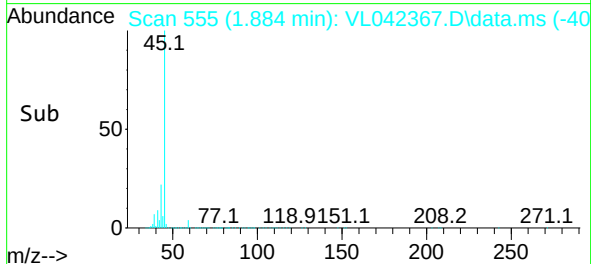
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025



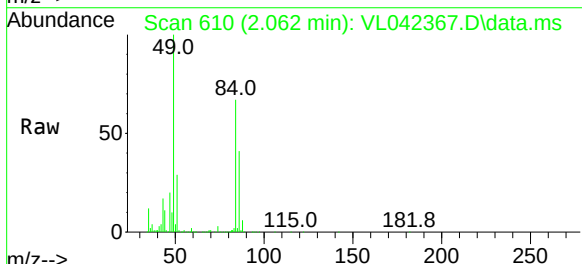
Tgt Ion: 45 Resp: 264094
Ion Ratio Lower Upper
45 100
58 0.0 34.5 51.7

Manual Integrations
APPROVED

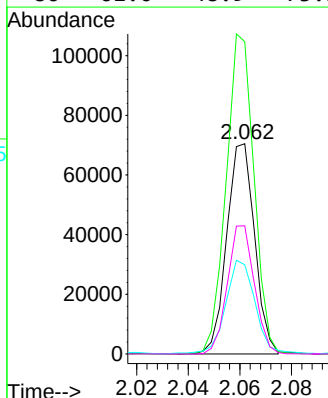
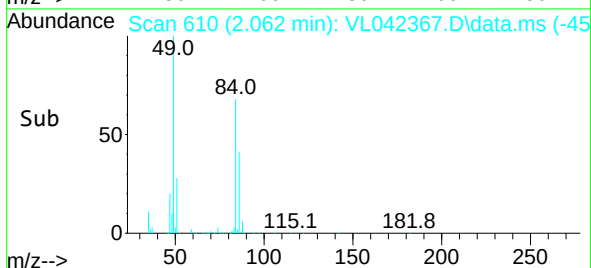
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

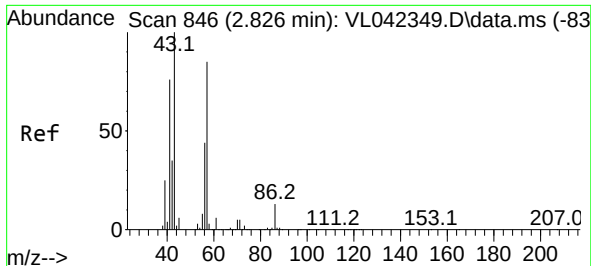


#20
Methylene Chloride
Concen: 7.035 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38



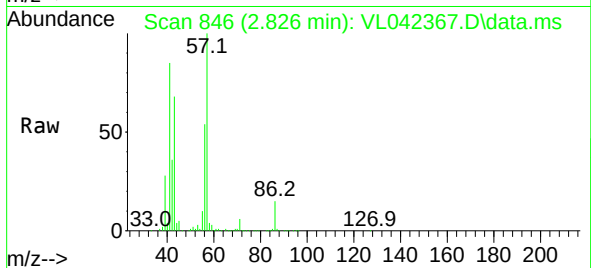
Tgt Ion: 84 Resp: 53039
Ion Ratio Lower Upper
84 100
49 148.2 111.6 167.4
51 42.0 35.1 52.7
86 61.0 48.9 73.3





#26
Hexane
Concen: 7.007 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

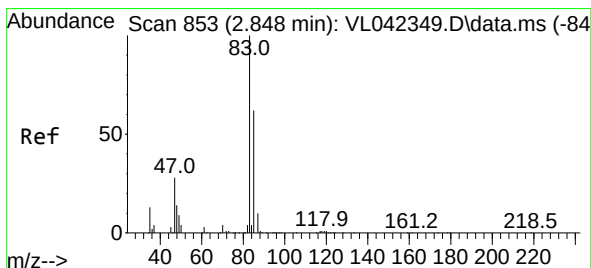
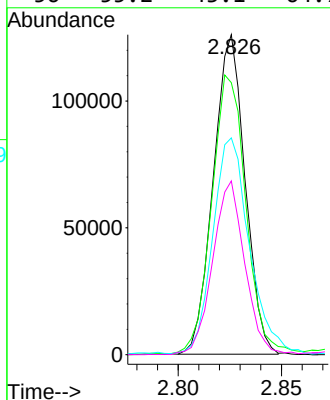
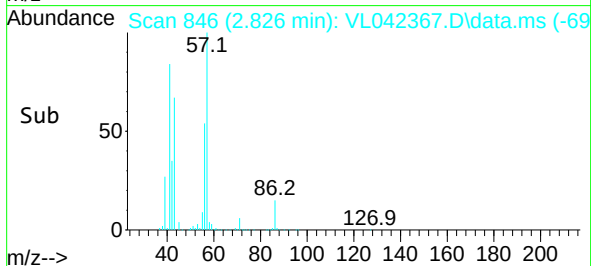
Instrument : MSVOA_L
ClientSampleId : IA-B2-6-03312025



Tgt Ion: 57 Resp: 134610
Ion Ratio Lower Upper
57 100
41 95.1 77.9 116.9
43 77.8 208.4 312.6
56 55.2 43.1 64.7

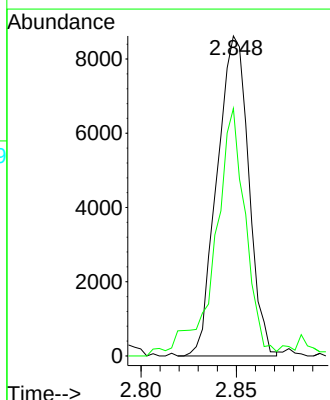
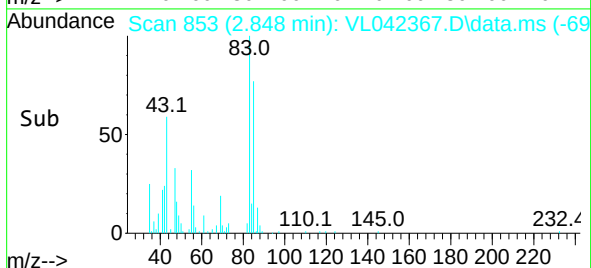
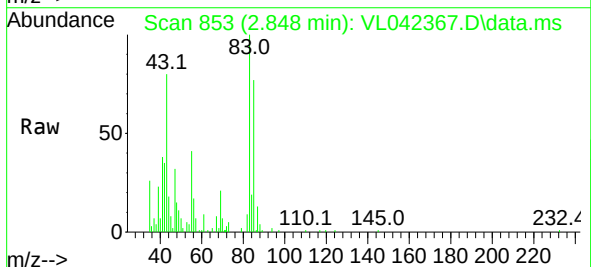
Manual Integrations
APPROVED

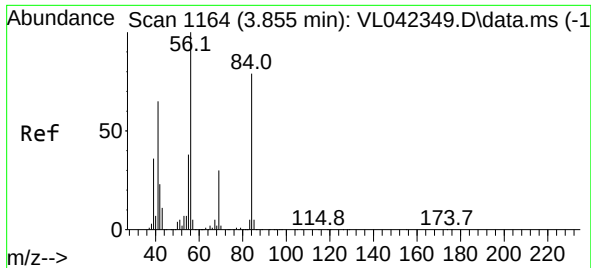
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#29
Chloroform
Concen: 0.366 ppbv m
RT: 2.848 min Scan# 853
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

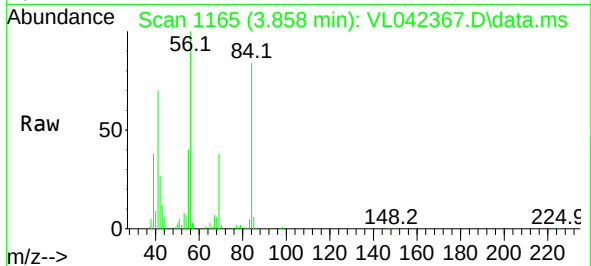
Tgt Ion: 83 Resp: 9936
Ion Ratio Lower Upper
83 100
85 77.4 50.0 75.0#





#30
Cyclohexane
Concen: 1.708 ppbv m
RT: 3.858 min Scan# 1165
Delta R.T. 0.003 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

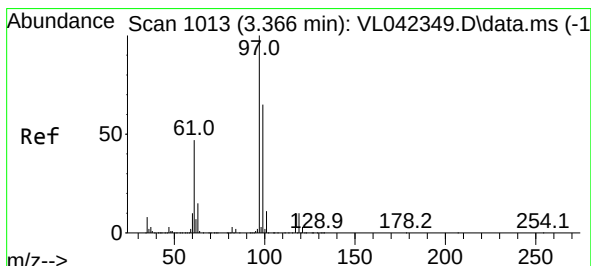
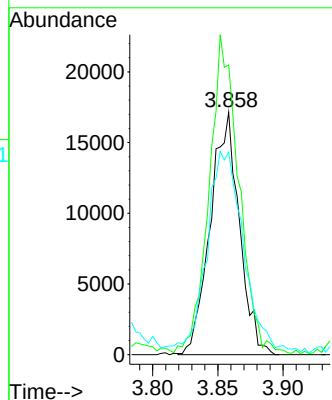
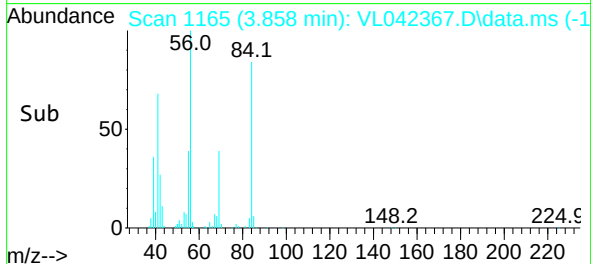
Instrument :
MSVOA_L
ClientSampleId :
LA-B2-6-03312025



Tgt Ion: 84 Resp: 2651
Ion Ratio Lower Upper
84 100
56 134.2 101.0 151.4
41 99.6 67.4 101.0

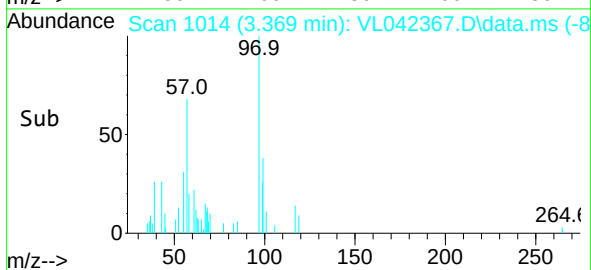
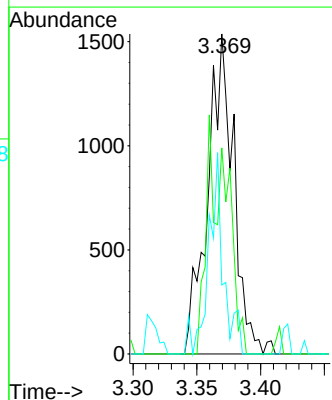
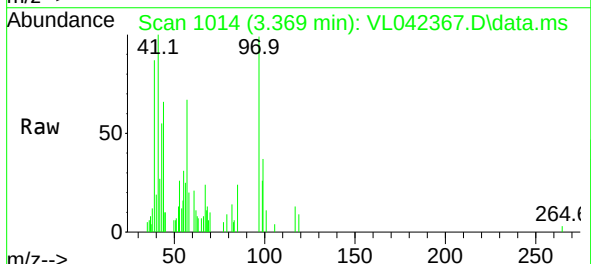
Manual Integrations
APPROVED

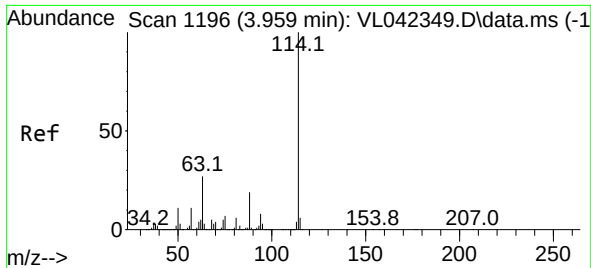
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#32
1,1,1-Trichloroethane
Concen: 0.072 ppbv m
RT: 3.369 min Scan# 1014
Delta R.T. 0.003 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion: 97 Resp: 2187
Ion Ratio Lower Upper
97 100
99 58.2 51.0 76.4
61 35.3 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: VL042367.D

Acq: 17 Apr 2025 20:38

Instrument :

MSVOA_L

ClientSampleId :

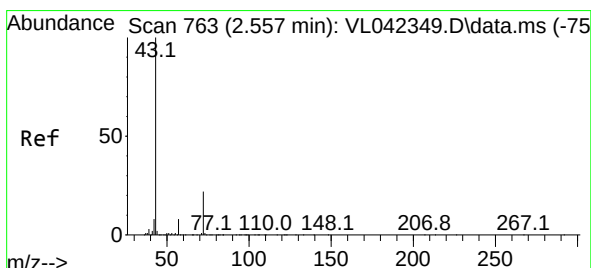
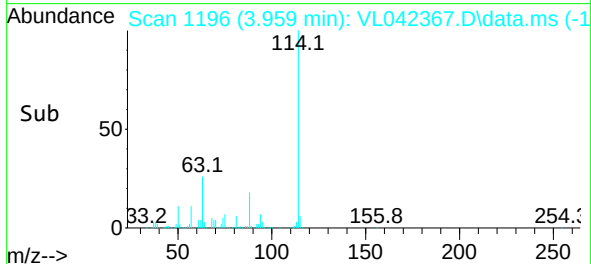
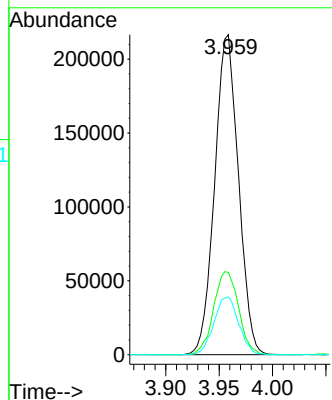
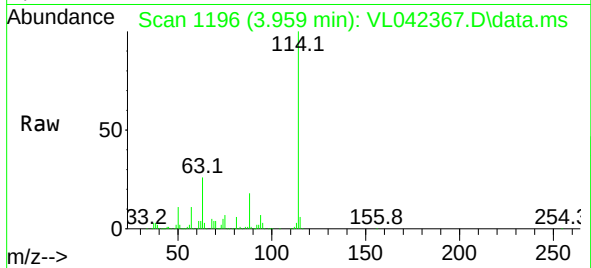
IA-B2-6-03312025

Tgt Ion:114	Resp:	33542
Ion Ratio	Lower	Upper
114	100	
63	27.3	21.8 32.6
88	18.7	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: 1.893 ppbv

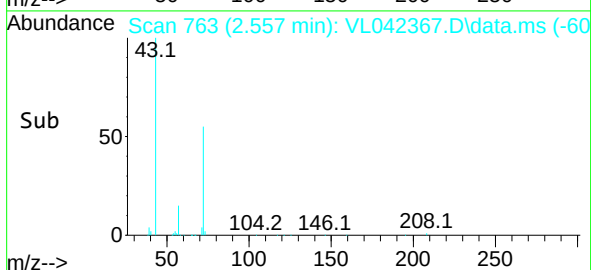
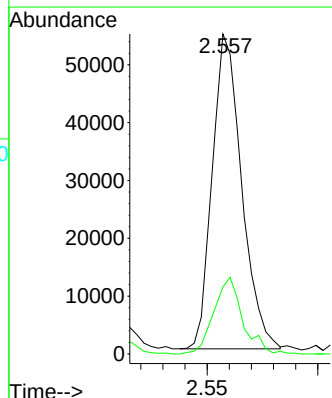
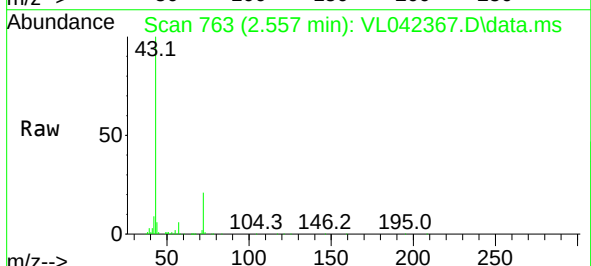
RT: 2.557 min Scan# 763

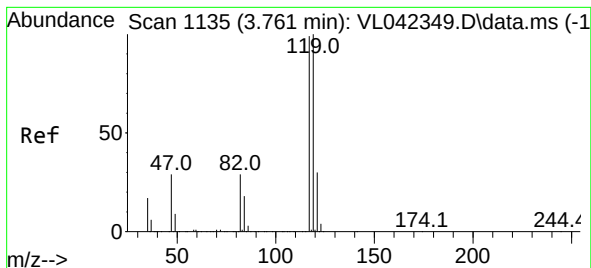
Delta R.T. -0.000 min

Lab File: VL042367.D

Acq: 17 Apr 2025 20:38

Tgt Ion: 43	Resp:	50219
Ion Ratio	Lower	Upper
43	100	
72	23.9	18.2 27.2





#35

Carbon Tetrachloride

Concen: 0.103 ppbv m

RT: 3.761 min Scan# 1135

Delta R.T. -0.000 min

Lab File: VL042367.D

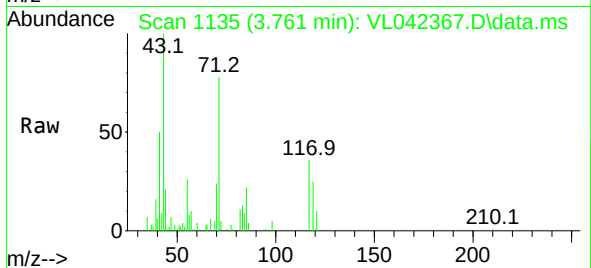
Acq: 17 Apr 2025 20:38

Instrument :

MSVOA_L

ClientSampleId :

LA-B2-6-03312025

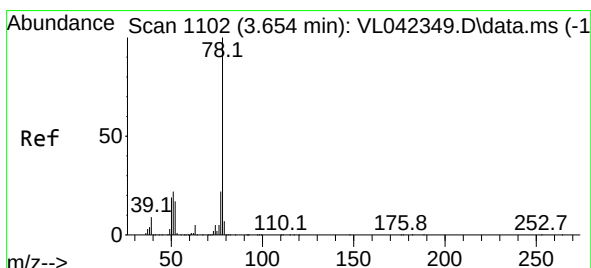
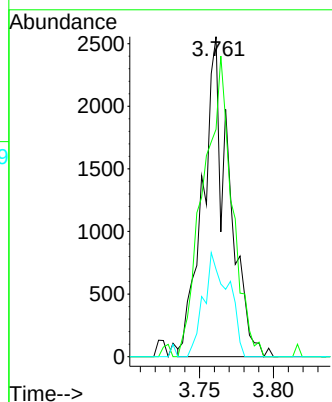
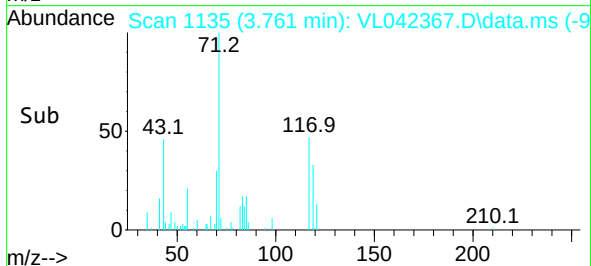


Tgt Ion	Ratio	Lower	Upper
117	100		
119	71.0	80.5	120.7
121	27.3	24.2	36.2

Manual Integrations

APPROVED

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



#36

Benzene

Concen: 1.696 ppbv

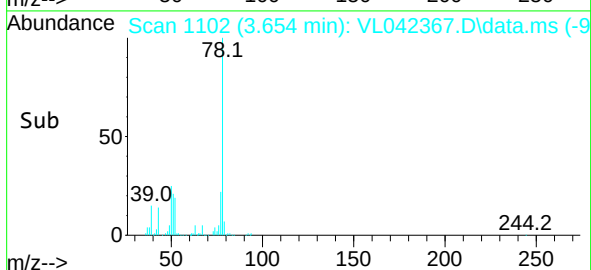
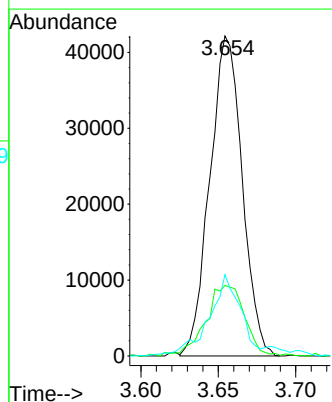
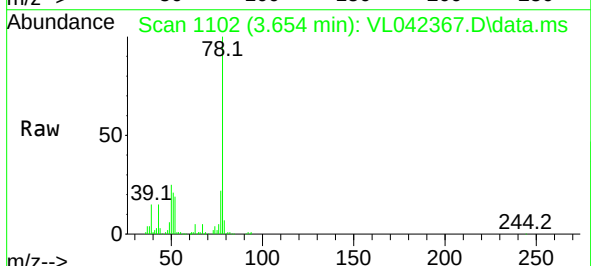
RT: 3.654 min Scan# 1102

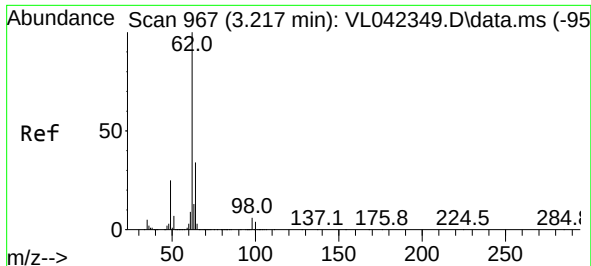
Delta R.T. -0.000 min

Lab File: VL042367.D

Acq: 17 Apr 2025 20:38

Tgt Ion	Ratio	Lower	Upper
78	100		
77	21.9	17.4	26.0
50	23.4	15.5	23.3





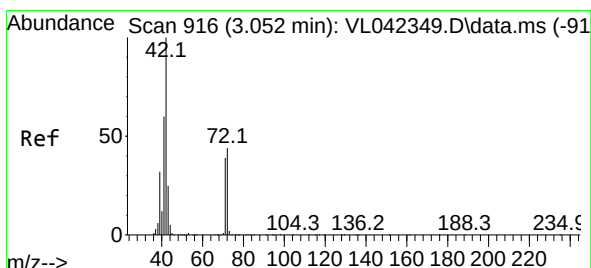
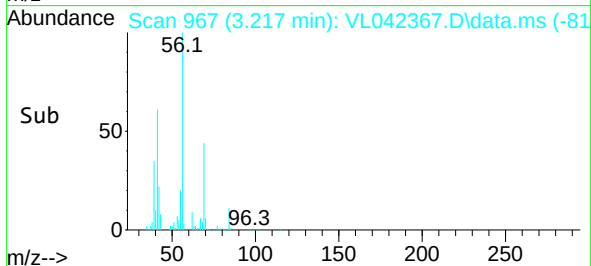
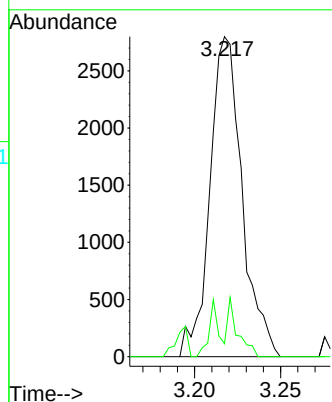
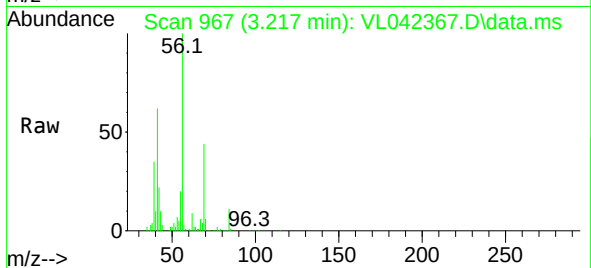
#37
1,2-Dichloroethane
Concen: 0.167 ppbv
RT: 3.217 min Scan# 90
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

Tgt Ion: 62 Resp: 363
Ion Ratio Lower Upper
62 100
98 10.7 5.1 7.7

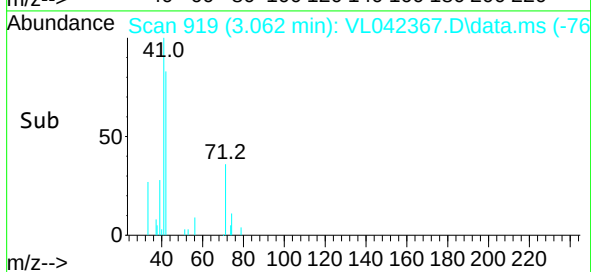
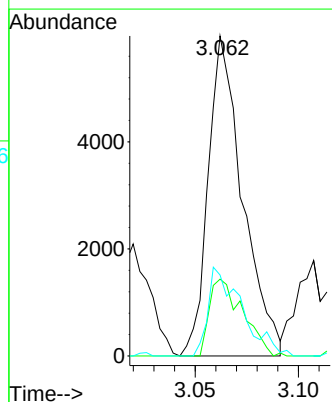
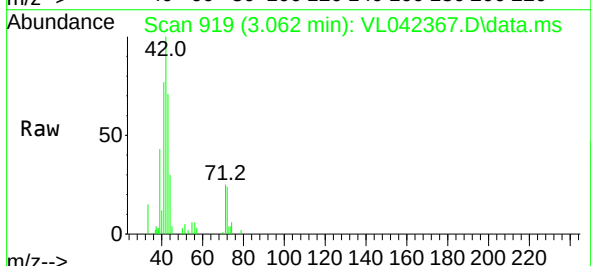
Manual Integrations
APPROVED

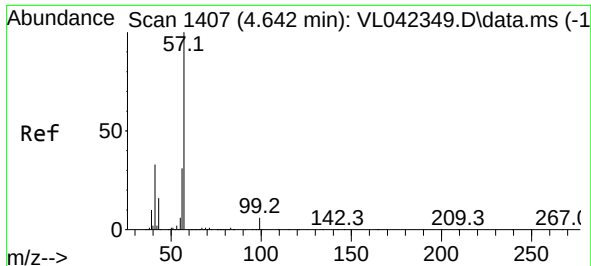
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#41
Tetrahydrofuran
Concen: 0.449 ppbv
RT: 3.062 min Scan# 919
Delta R.T. 0.010 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

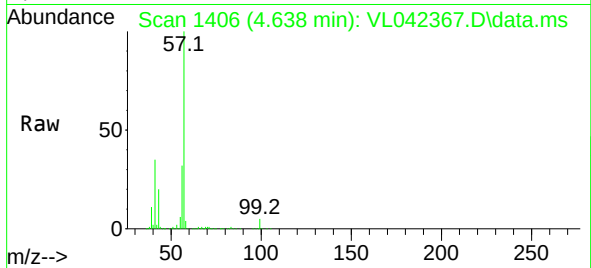
Tgt Ion: 42 Resp: 6945
Ion Ratio Lower Upper
42 100
72 23.4 32.3 48.5#
71 27.1 31.4 47.2#





#44
2,2,4-Trimethylpentane
Concen: 14.485 ppbv
RT: 4.638 min Scan# 1406
Delta R.T. -0.003 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

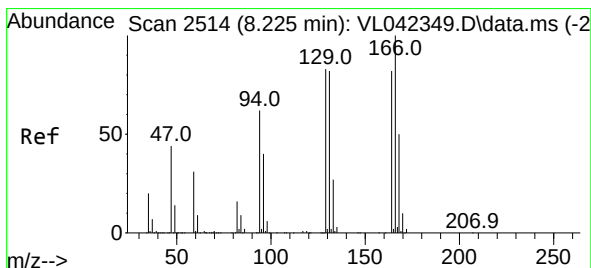
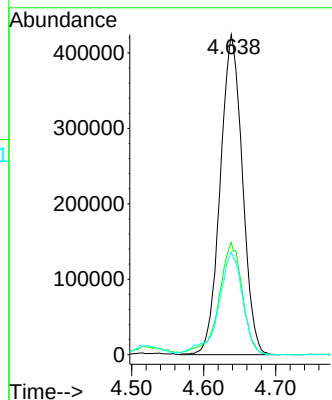
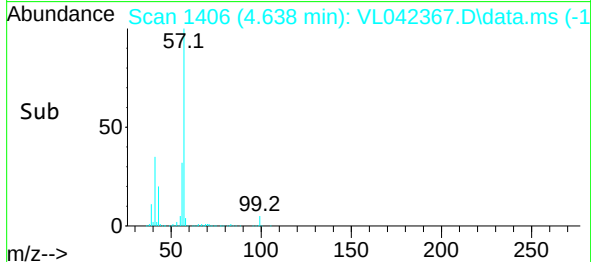
Instrument : MSVOA_L
ClientSampleId : IA-B2-6-03312025



Tgt Ion: 57 Resp: 905070
Ion Ratio Lower Upper
57 100
41 37.4 27.2 40.8
56 35.0 25.7 38.5

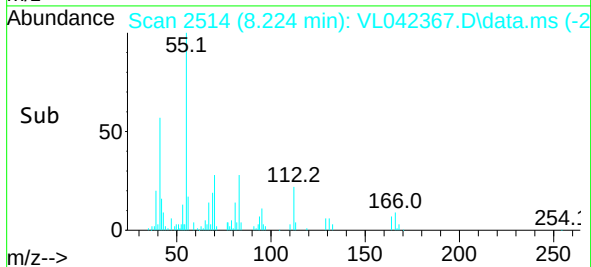
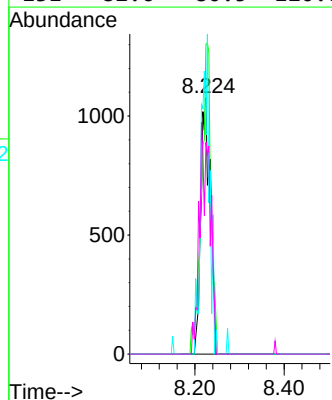
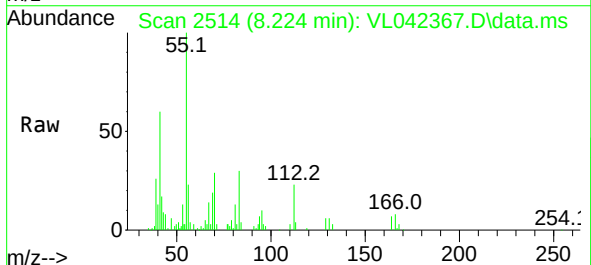
Manual Integrations
APPROVED

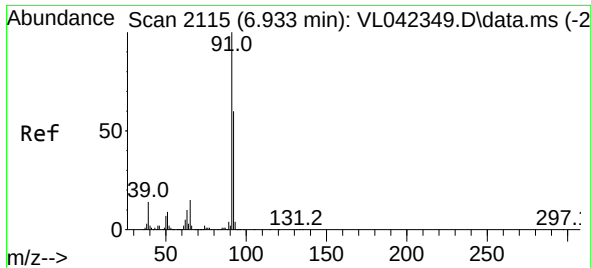
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#52
Tetrachloroethene
Concen: 0.111 ppbv m
RT: 8.224 min Scan# 2514
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

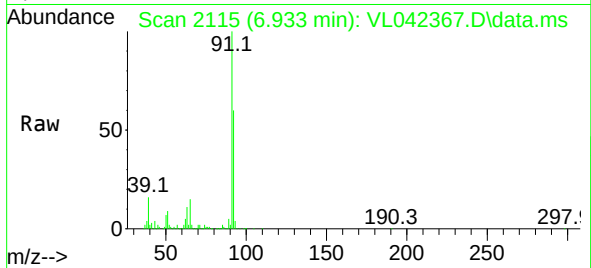
Tgt Ion:164 Resp: 1554
Ion Ratio Lower Upper
164 100
166 121.0 98.2 147.2
129 85.4 81.8 122.8
131 82.6 80.5 120.7





#53
Toluene
Concen: 39.680 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

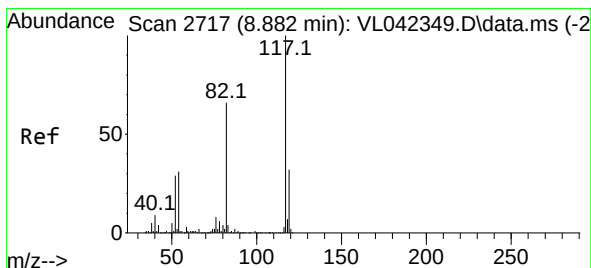
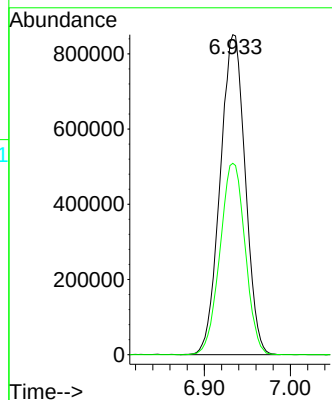
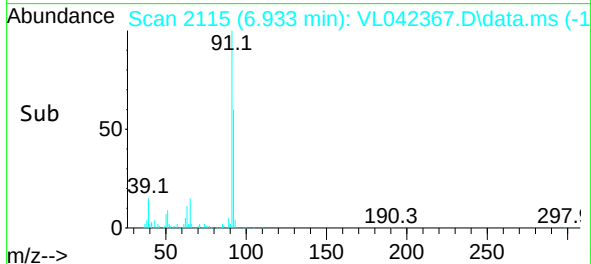
Instrument : MSVOA_L
ClientSampleId : IA-B2-6-03312025



Tgt Ion: 91 Resp: 1722695
Ion Ratio Lower Upper
91 100
92 60.1 48.2 72.4

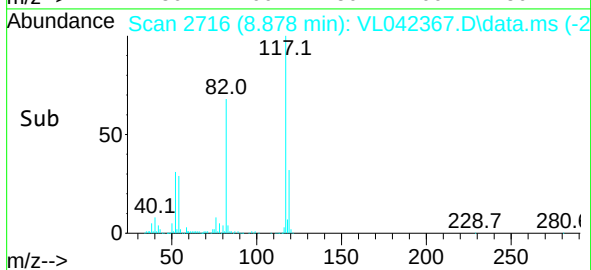
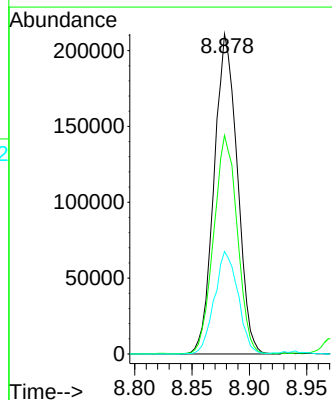
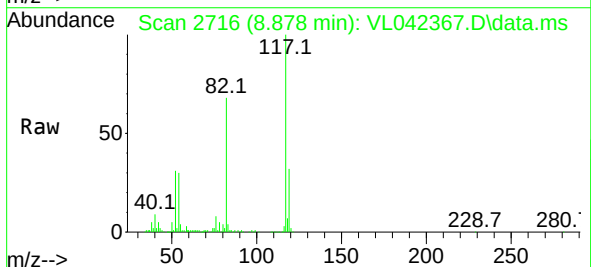
Manual Integrations
APPROVED

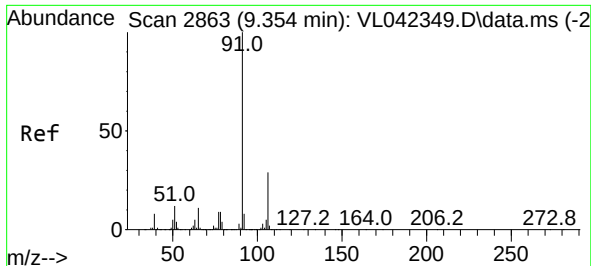
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2716
Delta R.T. -0.003 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

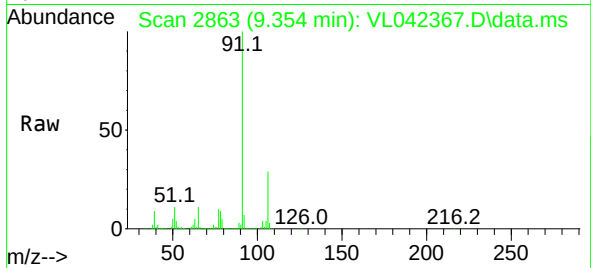
Tgt Ion:117 Resp: 296955
Ion Ratio Lower Upper
117 100
82 69.4 57.8 86.6
119 32.6 25.2 37.8





#58
Ethyl Benzene
Concen: 8.592 ppbv
RT: 9.354 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

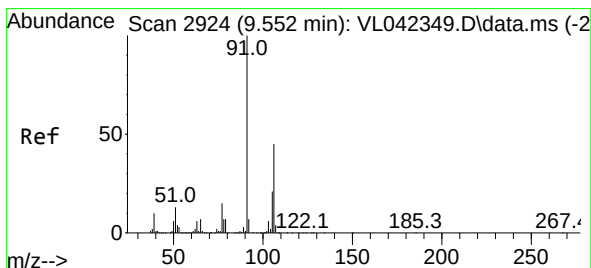
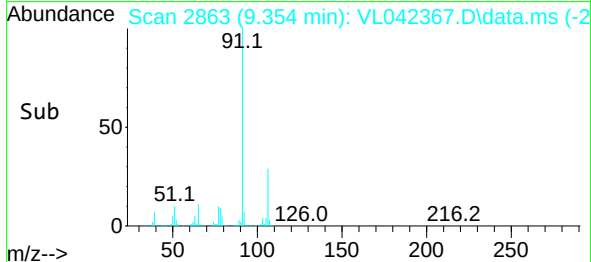
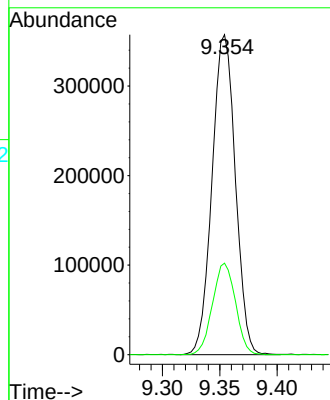
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025



Tgt Ion: 91 Resp: 505495
Ion Ratio Lower Upper
91 100
106 28.6 23.0 34.4

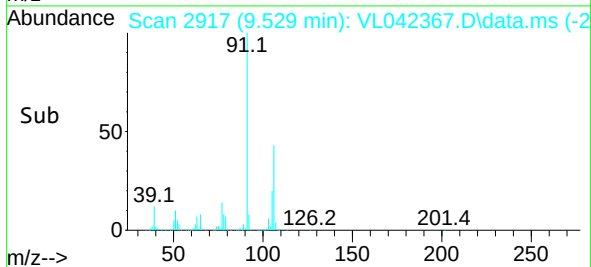
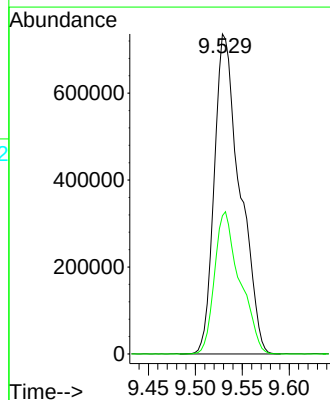
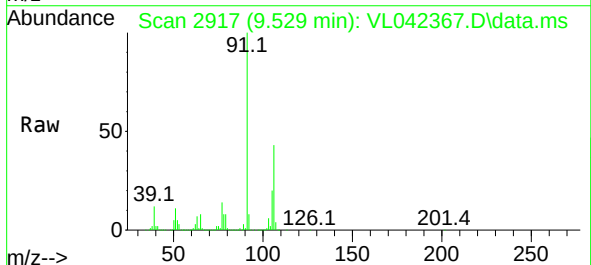
Manual Integrations
APPROVED

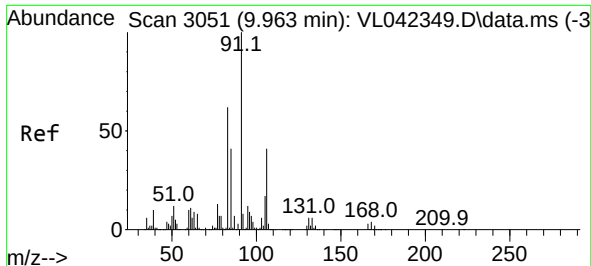
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#59
m/p-Xylene
Concen: 29.524 ppbv
RT: 9.529 min Scan# 2917
Delta R.T. -0.023 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

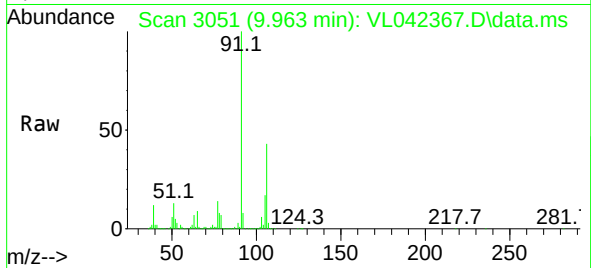
Tgt Ion: 91 Resp: 1399337
Ion Ratio Lower Upper
91 100
106 44.0 35.4 53.2





#60
o-Xylene
Concen: 11.586 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

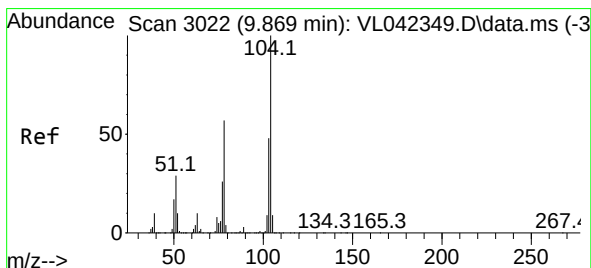
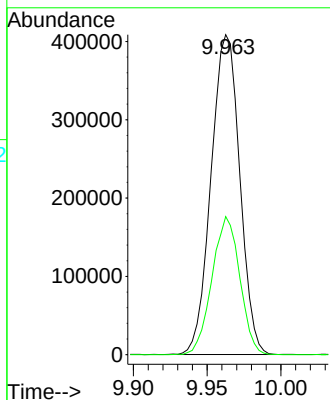
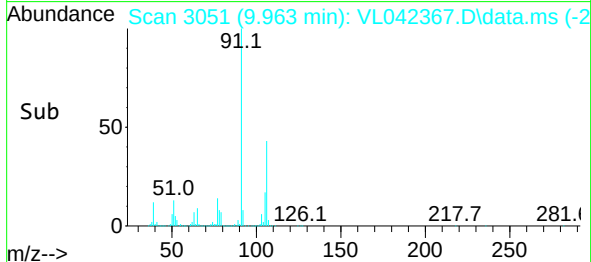
Instrument : MSVOA_L
ClientSampleId : IA-B2-6-03312025



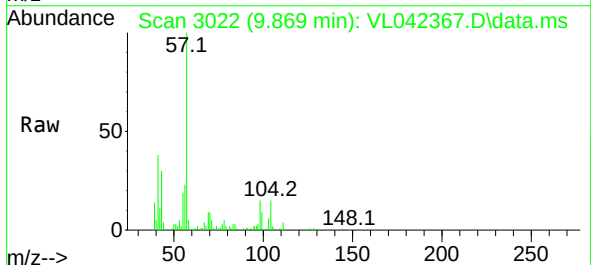
Tgt Ion: 91 Resp: 55299
Ion Ratio Lower Upper
91 100
106 41.8 21.1 63.4

Manual Integrations
APPROVED

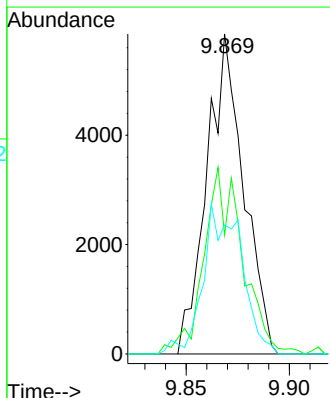
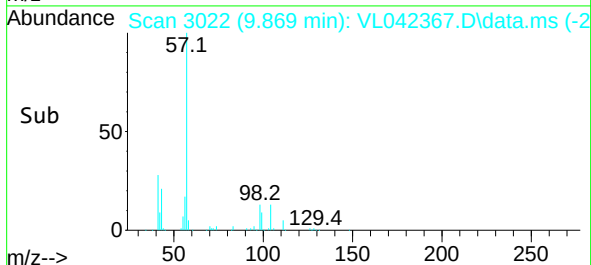
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

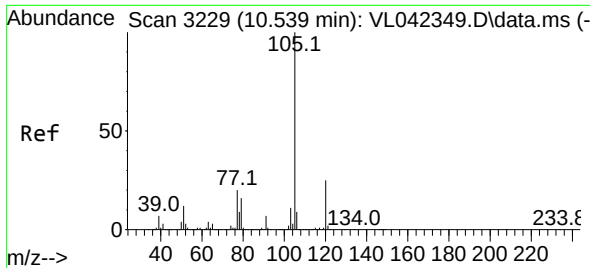


#61
Styrene
Concen: 0.319 ppbv
RT: 9.869 min Scan# 3022
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38



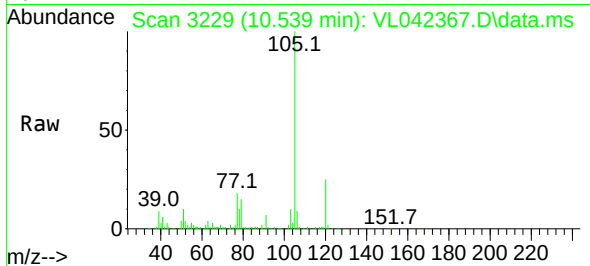
Tgt Ion:104 Resp: 7256
Ion Ratio Lower Upper
104 100
78 60.9 44.6 66.8
103 48.9 37.4 56.0





#62
Isopropylbenzene
Concen: 0.744 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

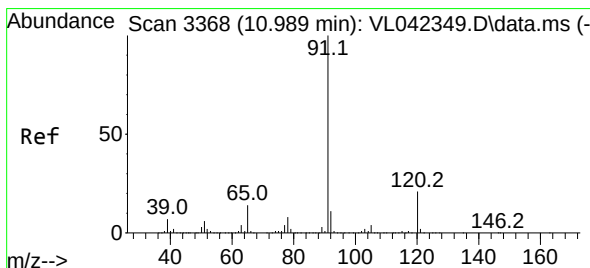
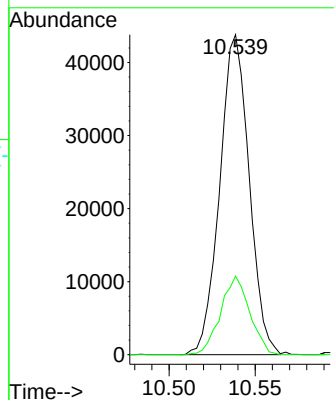
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025



Tgt Ion:105 Resp: 52108
Ion Ratio Lower Upper
105 100
120 24.3 19.8 29.8

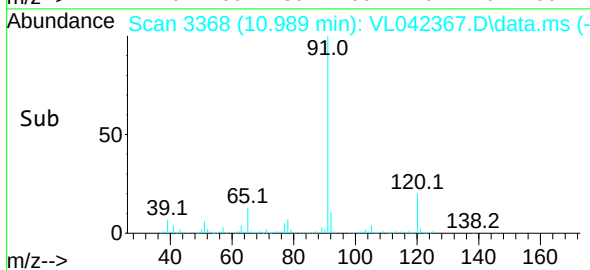
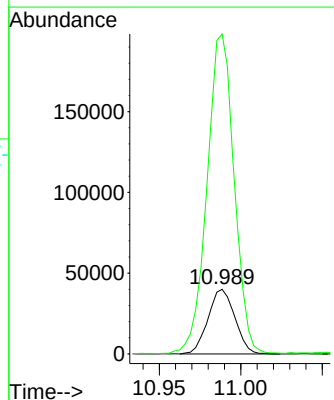
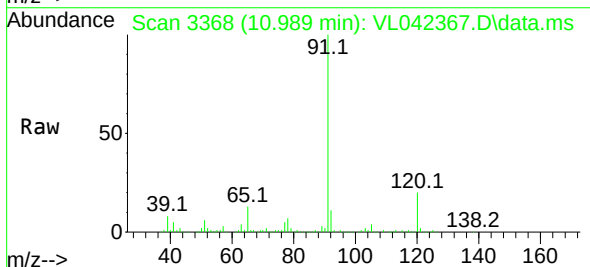
Manual Integrations
APPROVED

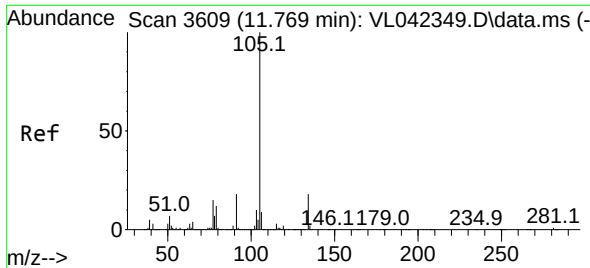
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#64
n-propylbenzene
Concen: 2.595 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

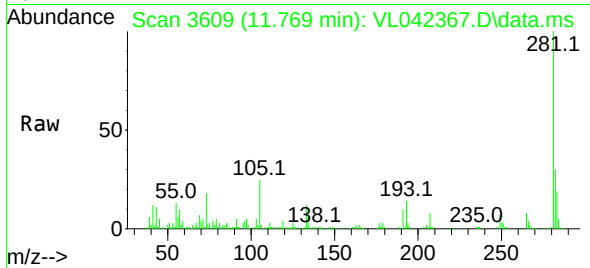
Tgt Ion:120 Resp: 45701
Ion Ratio Lower Upper
120 100
91 503.4 392.4 588.6





#67
 sec-Butylbenzene
 Concen: 0.177 ppbv
 RT: 11.769 min Scan# 3609
 Delta R.T. -0.000 min
 Lab File: VL042367.D
 Acq: 17 Apr 2025 20:38

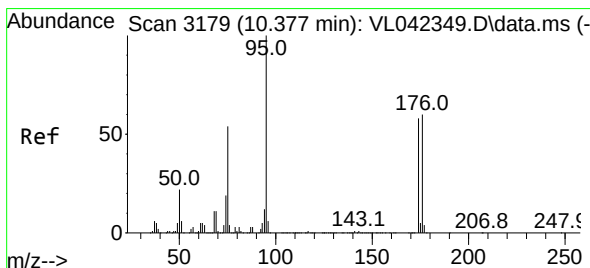
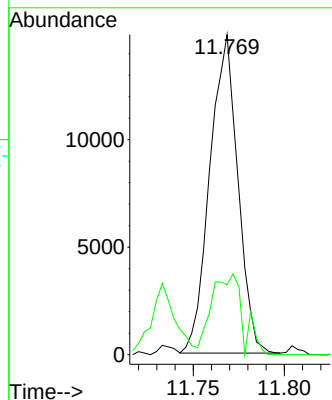
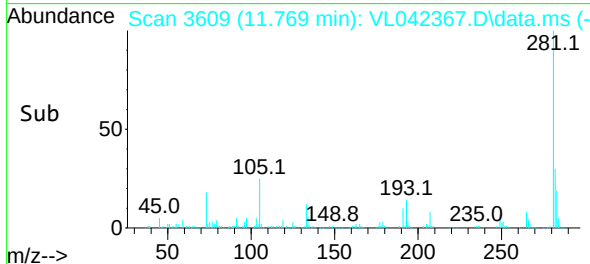
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-6-03312025



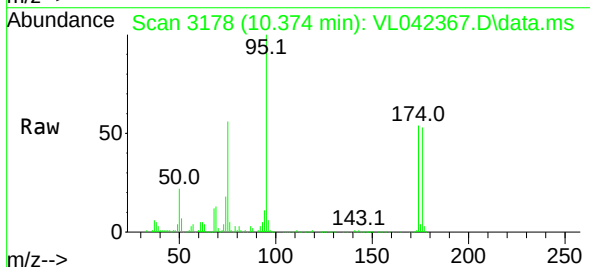
Tgt Ion:105 Resp: 15818
 Ion Ratio Lower Upper
 105 100
 134 28.7 14.6 21.8

Manual Integrations
 APPROVED

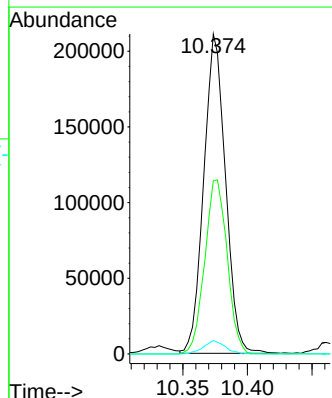
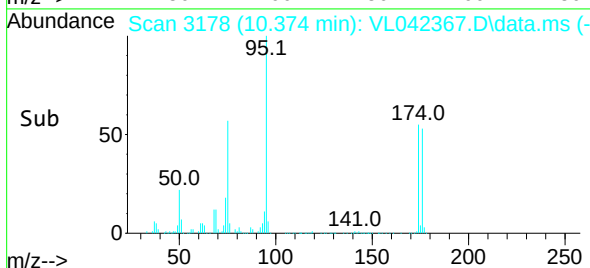
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

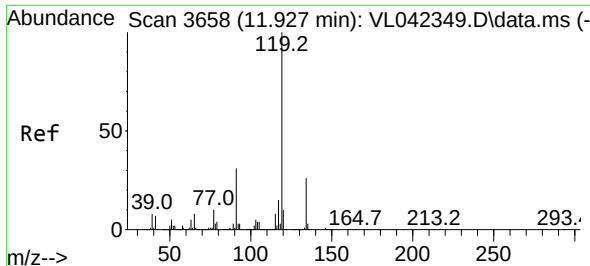


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.134 ppbv
 RT: 10.374 min Scan# 3178
 Delta R.T. -0.003 min
 Lab File: VL042367.D
 Acq: 17 Apr 2025 20:38



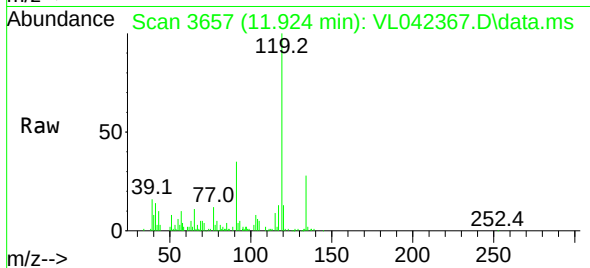
Tgt Ion: 95 Resp: 247280
 Ion Ratio Lower Upper
 95 100
 174 56.3 48.5 72.7
 175 4.2 3.7 5.5





#69
p-Isopropyltoluene
Concen: 0.315 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. -0.003 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

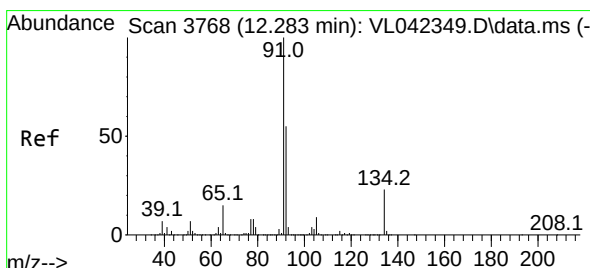
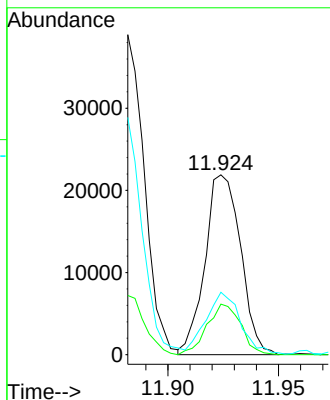
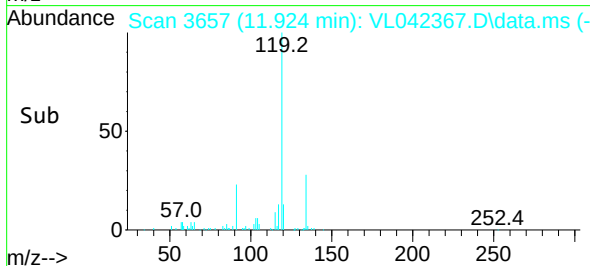
Instrument : MSVOA_L
ClientSampleId : IA-B2-6-03312025



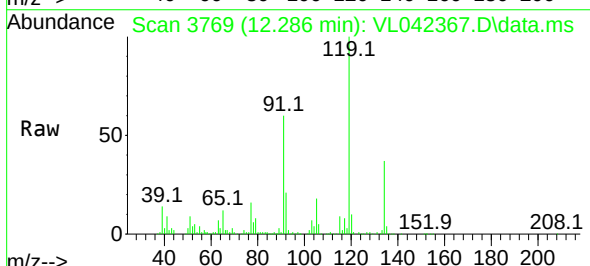
Tgt Ion: 119 Resp: 24554
Ion Ratio Lower Upper
119 100
134 26.2 20.0 30.0
91 33.6 24.4 36.6

Manual Integrations
APPROVED

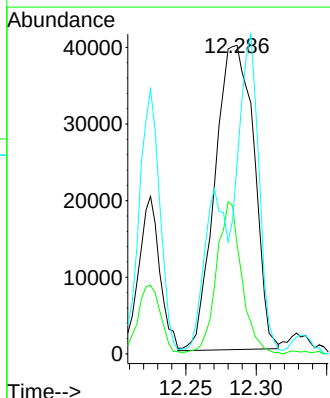
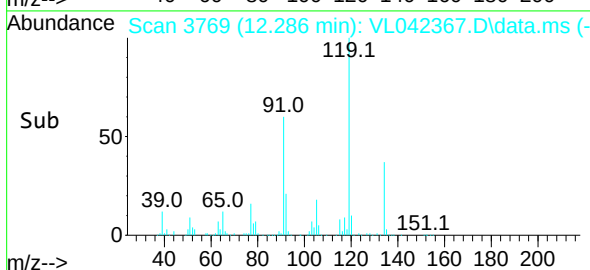
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

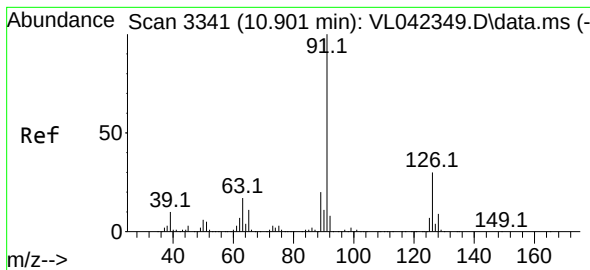


#70
n-Butylbenzene
Concen: 0.940 ppbv
RT: 12.286 min Scan# 3769
Delta R.T. 0.003 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38



Tgt Ion: 91 Resp: 76213
Ion Ratio Lower Upper
91 100
92 33.3 44.2 66.4#
134 89.1 18.2 27.4#





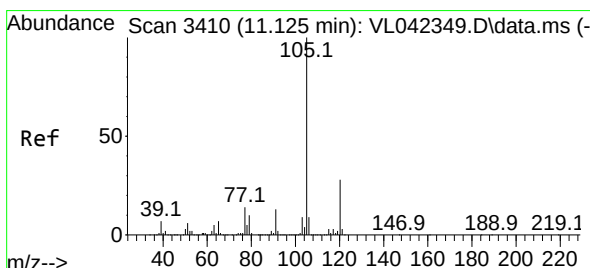
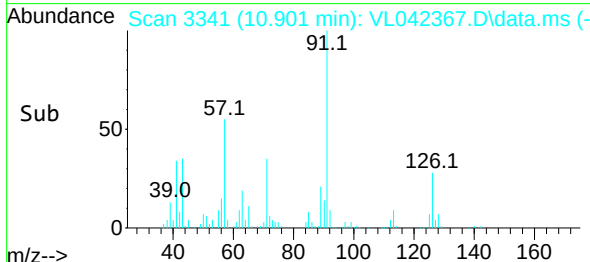
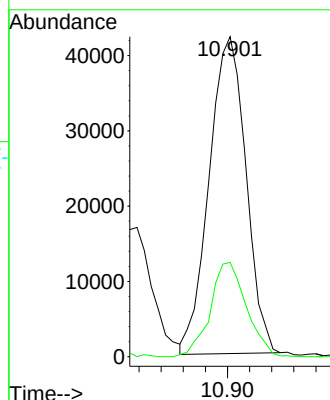
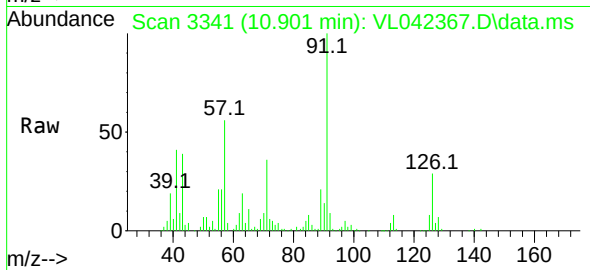
#71
2-Chlorotoluene
Concen: 0.886 ppbv
RT: 10.901 min Scan# 31
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

Tgt Ion: 91 Resp: 4868
Ion Ratio Lower Upper
91 100
126 29.3 11.4 45.4

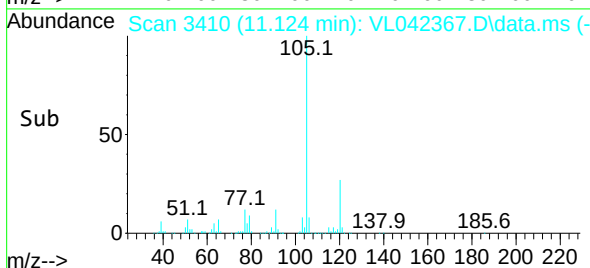
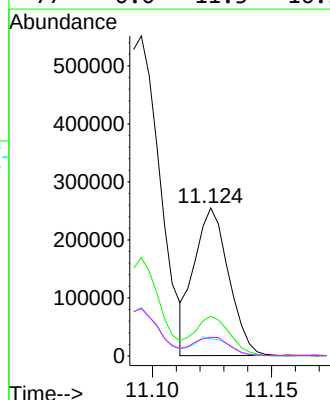
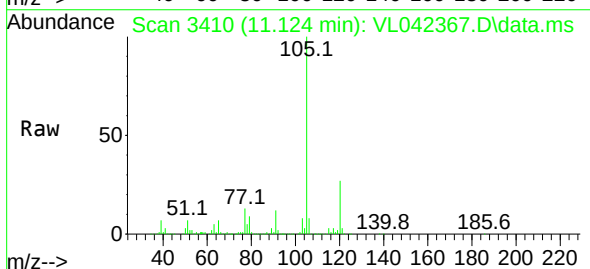
Manual Integrations
APPROVED

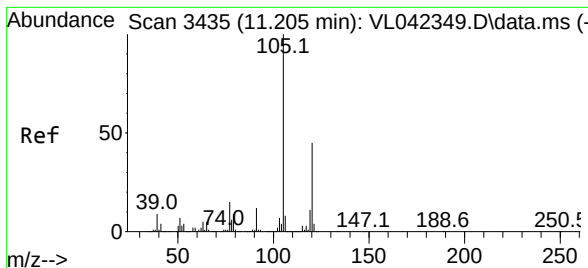
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#72
4-Ethyltoluene
Concen: 4.410 ppbv
RT: 11.124 min Scan# 3410
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion:105 Resp: 257296
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: 5.343 ppbv

RT: 11.202 min Scan# 3435

Delta R.T. -0.003 min

Lab File: VL042367.D

Acq: 17 Apr 2025 20:38

Instrument :

MSVOA_L

ClientSampleId :

IA-B2-6-03312025

Tgt Ion:105 Resp: 275258

Ion Ratio Lower Upper

105 100

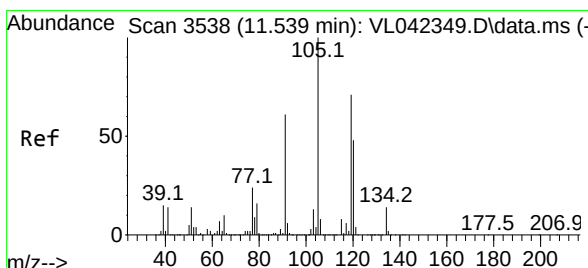
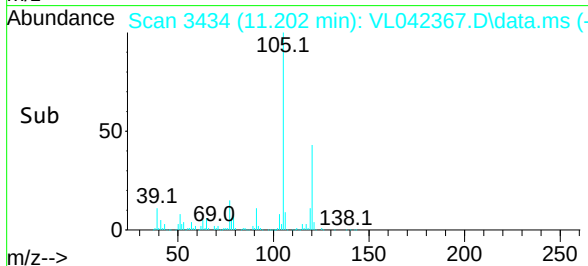
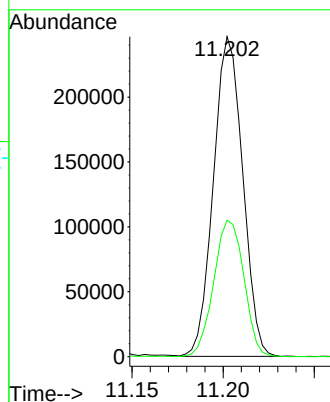
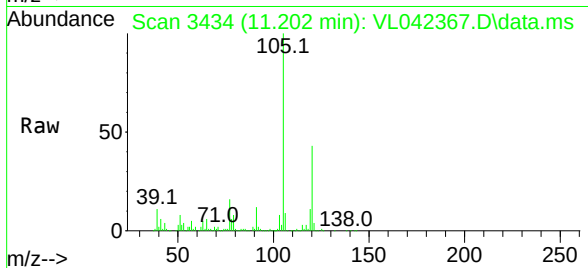
120 42.6 35.6 53.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#74

1,2,4-Trimethylbenzene

Concen: 14.886 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. -0.003 min

Lab File: VL042367.D

Acq: 17 Apr 2025 20:38

Tgt Ion:105 Resp: 895635

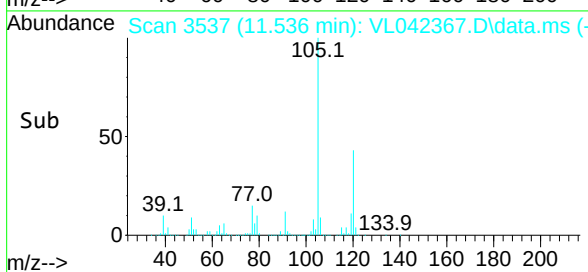
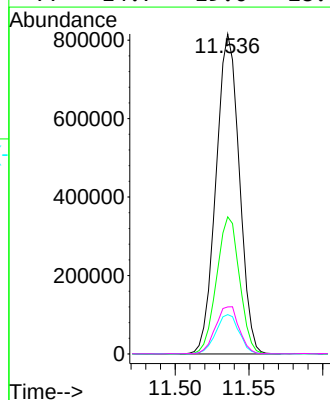
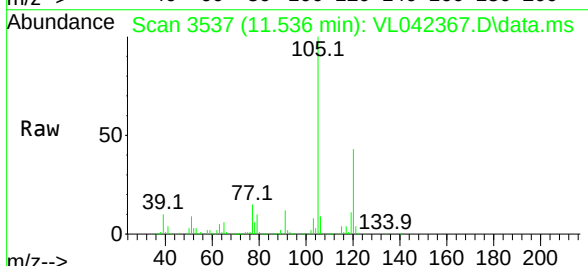
Ion Ratio Lower Upper

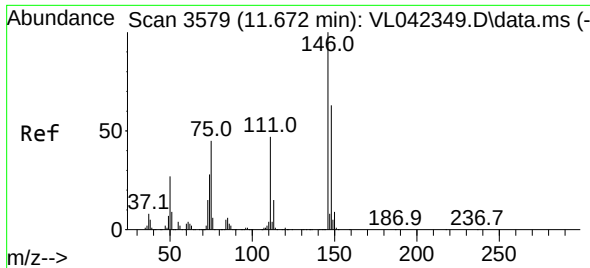
105 100

120 42.9 38.1 57.1

91 12.3 48.8 73.2#

77 14.7 19.0 28.4#





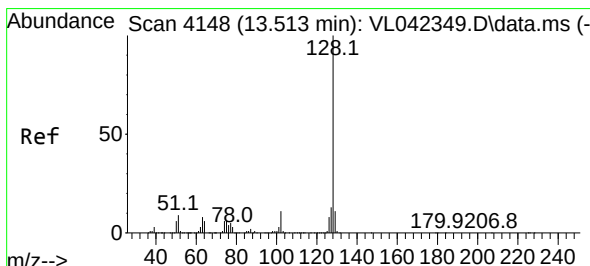
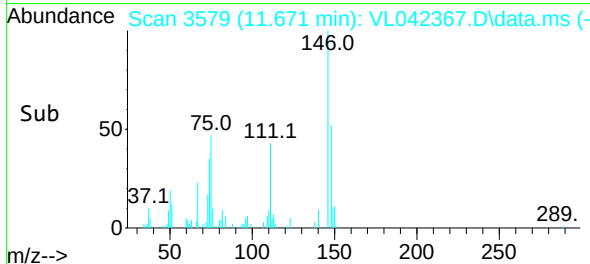
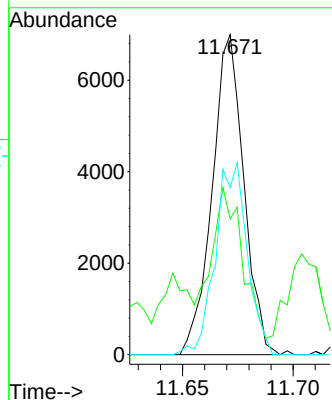
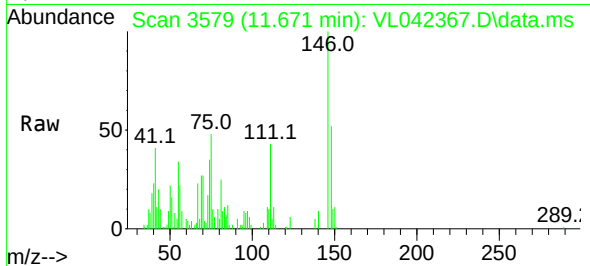
#76
1,4-Dichlorobenzene
Concen: 0.221 ppbv
RT: 11.671 min Scan# 3579
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Instrument : MSVOA_L
ClientSampleId : IA-B2-6-03312025

Tgt Ion:146 Resp: 6958
Ion Ratio Lower Upper
146 100
111 92.3 24.2 72.6
148 60.3 32.1 96.5

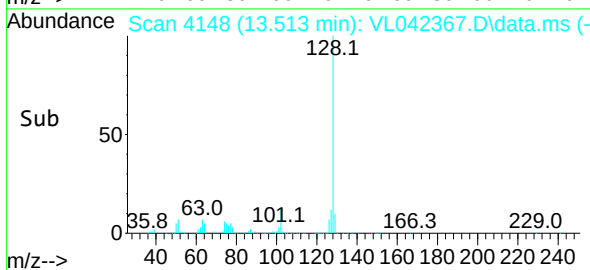
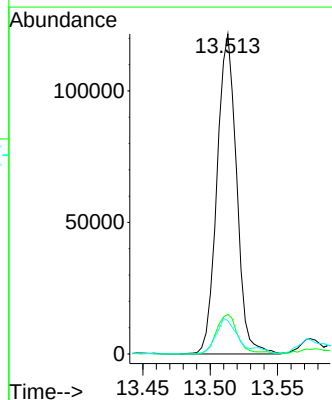
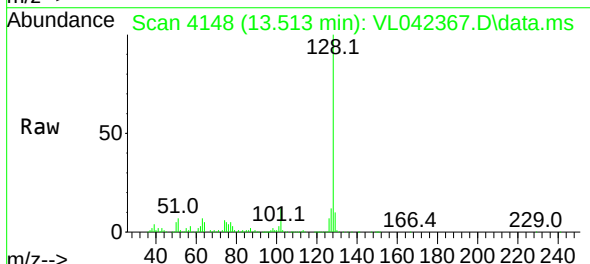
Manual Integrations
APPROVED

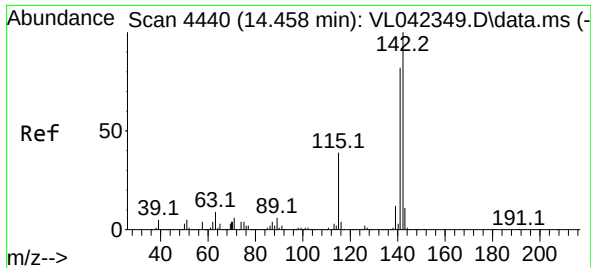
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#79
Naphthalene
Concen: 1.709 ppbv
RT: 13.513 min Scan# 4148
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

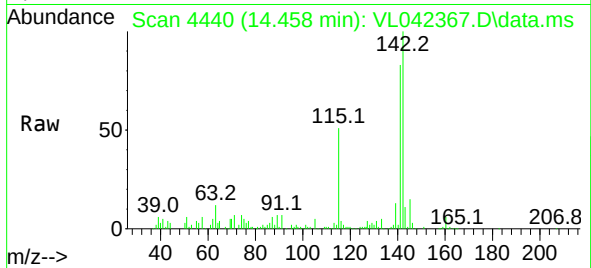
Tgt Ion:128 Resp: 122970
Ion Ratio Lower Upper
128 100
127 12.4 10.6 15.8
129 10.4 8.6 12.8





#80
Naphthalene, 2-methyl-
Concen: 0.769 ppbv
RT: 14.458 min Scan# 44
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

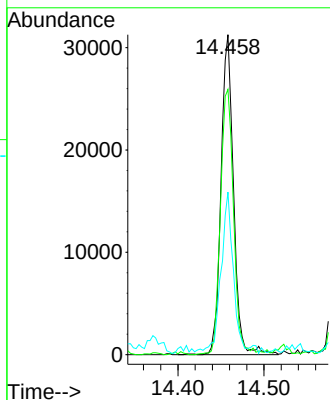
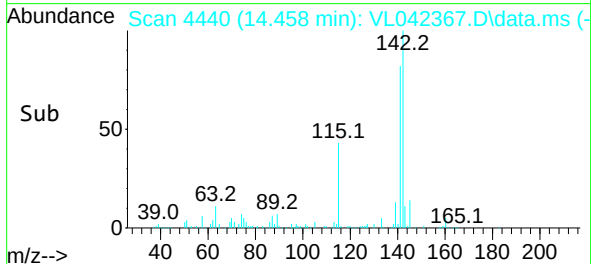
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025



Tgt Ion:142 Resp: 31538
Ion Ratio Lower Upper
142 100
141 87.8 66.8 100.2
115 49.3 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 : VL042367.D
 Acq On : 17 Apr 2025 20:38
 Operator : SY/MD
 Sample : Q1726-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-6-03312025

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: VL042367.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	4172142	4761077	88.68%	7.020%
2	1.466	423	426	428	rBV	183375	90947	1.69%	0.134%
3	1.486	428	432	435	rBV2	278084	136546	2.54%	0.201%
4	1.525	440	444	450	rVV2	648689	381395	7.10%	0.562%
5	1.557	450	454	458	rVV2	953684	482045	8.98%	0.711%
6	1.622	470	474	477	rVB	977681	539988	10.06%	0.796%
7	1.722	500	505	512	rVB	954156	609667	11.36%	0.899%
8	1.832	535	539	549	rVB	6148993	5083997	94.69%	7.496%
9	1.884	549	555	560	rBV	609329	430441	8.02%	0.635%
10	1.962	574	579	584	rVB	197667	133863	2.49%	0.197%
11	2.059	600	609	614	rBV3	378942	353591	6.59%	0.521%
12	2.272	667	675	682	rBV2	176624	147814	2.75%	0.218%
13	2.473	732	737	743	rVB	259486	264485	4.93%	0.390%
14	2.557	758	763	771	rVB	84104	82078	1.53%	0.121%
15	2.622	772	783	793	rVB	213262	222692	4.15%	0.328%
16	2.693	793	805	814	rBV3	64974	88677	1.65%	0.131%
17	2.787	826	834	839	rBV2	445975	445813	8.30%	0.657%
18	2.826	839	846	858	rVB	544623	645375	12.02%	0.952%
19	3.227	963	970	979	rVB	229763	293156	5.46%	0.432%
20	3.282	979	987	1000	rVB3	129079	191159	3.56%	0.282%
21	3.654	1085	1102	1106	rBV4	115451	242329	4.51%	0.357%
22	3.683	1106	1111	1126	rVV2	212069	332295	6.19%	0.490%
23	3.768	1126	1137	1151	rVB6	40230	80937	1.51%	0.119%
24	3.858	1151	1165	1182	rVV2	98076	175987	3.28%	0.259%
25	3.955	1182	1195	1207	rVV	570180	910216	16.95%	1.342%
26	4.049	1207	1224	1232	rVV3	394480	749706	13.96%	1.105%
27	4.098	1232	1239	1251	rVB3	168408	296034	5.51%	0.436%
28	4.266	1278	1291	1308	rVB2	424690	825757	15.38%	1.217%
29	4.438	1333	1344	1356	rBV4	85989	170969	3.18%	0.252%
30	4.522	1356	1370	1384	rVV7	83254	254646	4.74%	0.375%
31	4.638	1384	1406	1427	rVB	979888	2267902	42.24%	3.344%
32	4.920	1479	1493	1499	rBV6	56407	118018	2.20%	0.174%
33	4.978	1499	1511	1523	rVB5	338192	713873	13.30%	1.053%
34	5.302	1596	1611	1629	rVB9	61451	169859	3.16%	0.250%
35	5.664	1700	1723	1740	rVB6	232654	671087	12.50%	0.989%
36	5.784	1745	1760	1775	rBV6	36576	106395	1.98%	0.157%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042367.D
 Acq On : 17 Apr 2025 20:38
 Operator : SY/MD
 Sample : Q1726-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-6-03312025

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	6.130	1851	1867	1875	rBV7	57248	147139	2.74%	0.217%
38	6.198	1875	1888	1899	rVV5	157073	460913	8.58%	0.680%
39	6.263	1899	1908	1910	rVV3	159545	258123	4.81%	0.381%
40	6.273	1910	1911	1928	rVB3	154580	185334	3.45%	0.273%
41	6.464	1956	1970	1983	rBV4	49207	127319	2.37%	0.188%
42	6.823	2064	2081	2098	rBV3	485627	1188518	22.14%	1.752%
43	6.936	2098	2116	2136	rVB	2369620	5369070	100.00%	7.916%
44	7.185	2175	2193	2203	rBV2	189346	407045	7.58%	0.600%
45	7.276	2212	2221	2233	rVB7	45431	92309	1.72%	0.136%
46	7.380	2239	2253	2261	rBV2	278552	567630	10.57%	0.837%
47	7.419	2261	2265	2287	rVB5	104623	248191	4.62%	0.366%
48	7.597	2308	2320	2337	rBV6	302090	851006	15.85%	1.255%
49	7.684	2337	2347	2367	rVB7	120110	279451	5.20%	0.412%
50	7.894	2399	2412	2430	rBV2	263660	621270	11.57%	0.916%
51	8.131	2475	2485	2502	rVV6	110053	224589	4.18%	0.331%
52	8.231	2505	2516	2522	rVV4	79178	153573	2.86%	0.226%
53	8.273	2522	2529	2530	rVV3	116800	142888	2.66%	0.211%
54	8.299	2530	2537	2556	rVB4	479392	896211	16.69%	1.321%
55	8.432	2570	2578	2585	rBV3	59410	98138	1.83%	0.145%
56	8.467	2585	2589	2604	rVB9	43973	88329	1.65%	0.130%
57	8.691	2648	2658	2664	rBV4	54735	78914	1.47%	0.116%
58	8.878	2702	2716	2726	rBV	769382	1196497	22.28%	1.764%
59	8.940	2726	2735	2740	rVV3	83800	142360	2.65%	0.210%
60	8.979	2740	2747	2762	rVB7	165611	387618	7.22%	0.572%
61	9.063	2762	2773	2777	rBV9	42206	73557	1.37%	0.108%
62	9.098	2777	2784	2790	rVV2	66078	92915	1.73%	0.137%
63	9.144	2790	2798	2812	rVB2	126331	203728	3.79%	0.300%
64	9.241	2820	2828	2841	rVB2	27369	63723	1.19%	0.094%
65	9.354	2852	2863	2877	rBV	869257	1294795	24.12%	1.909%
66	9.412	2877	2881	2892	rVB5	60684	90094	1.68%	0.133%
67	9.529	2907	2917	2936	rVB	2115619	4120790	76.75%	6.076%
68	9.652	2949	2955	2965	rBV7	39643	69724	1.30%	0.103%
69	9.729	2965	2979	2993	rVB5	238351	521172	9.71%	0.768%
70	9.859	3005	3019	3026	rBV2	251680	393608	7.33%	0.580%
71	9.963	3036	3051	3061	rBV	1188344	1746019	32.52%	2.574%
72	10.001	3061	3063	3074	rVB5	61230	81796	1.52%	0.121%
73	10.073	3074	3085	3088	rBV5	62579	90707	1.69%	0.134%
74	10.102	3088	3094	3100	rVV4	119117	169945	3.17%	0.251%
75	10.141	3100	3106	3114	rVB7	63363	101354	1.89%	0.149%
76	10.351	3161	3171	3173	rBV2	402432	455542	8.48%	0.672%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042367.D
 Acq On : 17 Apr 2025 20:38
 Operator : SY/MD
 Sample : Q1726-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-6-03312025

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	10.374	3173	3178	3188	rVV	948921	1180248	21.98%	1.740%
78	10.429	3188	3195	3203	rVB5	65059	85364	1.59%	0.126%
79	10.539	3219	3229	3235	rBV	122542	161793	3.01%	0.239%
80	10.768	3288	3300	3305	rBV3	78103	136761	2.55%	0.202%
81	10.801	3305	3310	3316	rVV6	71697	95119	1.77%	0.140%
82	10.856	3321	3327	3334	rVV4	212976	282495	5.26%	0.417%
83	10.901	3334	3341	3353	rVV	245372	319757	5.96%	0.471%
84	10.989	3353	3368	3382	rVB	435096	622699	11.60%	0.918%
85	11.095	3392	3401	3406	rBV	1519747	1705822	31.77%	2.515%
86	11.124	3406	3410	3419	rVB2	644799	666796	12.42%	0.983%
87	11.202	3419	3434	3442	rBV	779106	927572	17.28%	1.368%
88	11.257	3442	3451	3453	rBV3	66927	73412	1.37%	0.108%
89	11.280	3453	3458	3462	rVV2	131234	149978	2.79%	0.221%
90	11.312	3462	3468	3471	rVV3	242188	294394	5.48%	0.434%
91	11.338	3471	3476	3489	rVB	534993	612800	11.41%	0.904%
92	11.403	3489	3496	3500	rBV	144827	161162	3.00%	0.238%
93	11.422	3500	3502	3511	rVB5	62338	70908	1.32%	0.105%
94	11.536	3528	3537	3549	rBV	2418149	2733373	50.91%	4.030%
95	11.591	3549	3554	3564	rVB7	52134	75942	1.41%	0.112%
96	11.752	3598	3604	3607	rBV	316305	332252	6.19%	0.490%
97	11.772	3607	3610	3623	rVB	313654	373437	6.96%	0.551%
98	11.879	3636	3643	3651	rVB	662589	707650	13.18%	1.043%
99	11.924	3651	3657	3662	rBV2	61781	77039	1.43%	0.114%
100	12.018	3676	3686	3690	rBV	390116	441234	8.22%	0.651%
101	12.040	3690	3693	3701	rVV4	196756	197574	3.68%	0.291%
102	12.086	3701	3707	3717	rVB3	111701	151663	2.82%	0.224%
103	12.170	3726	3733	3736	rBV4	88699	97600	1.82%	0.144%
104	12.196	3736	3741	3744	rVV3	161806	164469	3.06%	0.242%
105	12.225	3744	3750	3757	rVB	498588	511108	9.52%	0.754%
106	12.270	3757	3764	3767	rBV	219537	261383	4.87%	0.385%
107	12.293	3767	3771	3777	rVB2	386207	402594	7.50%	0.594%
108	12.403	3793	3805	3811	rBV4	182761	233654	4.35%	0.344%
109	12.439	3811	3816	3821	rVV	167315	174081	3.24%	0.257%
110	12.474	3821	3827	3831	rVV3	96374	111339	2.07%	0.164%
111	12.503	3831	3836	3840	rVV2	354835	416046	7.75%	0.613%
112	12.523	3840	3842	3846	rVV	272575	244411	4.55%	0.360%
113	12.542	3846	3848	3855	rVB2	192766	164804	3.07%	0.243%
114	12.587	3855	3862	3874	rVB3	504003	686015	12.78%	1.011%
115	12.655	3874	3883	3893	rVB7	102262	165746	3.09%	0.244%
116	12.798	3921	3927	3931	rBV	157689	147140	2.74%	0.217%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042367.D
 Acq On : 17 Apr 2025 20:38
 Operator : SY/MD
 Sample : Q1726-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-6-03312025

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	12.827	3931	3936	3942	rVB2	261200	251037	4.68%	0.370%
118	12.918	3956	3964	3969	rBV	262020	276119	5.14%	0.407%
119	12.950	3969	3974	3984	rVV	364193	369595	6.88%	0.545%
120	13.008	3984	3992	4003	rVB9	56988	106495	1.98%	0.157%
121	13.102	4015	4021	4024	rBV5	91682	100344	1.87%	0.148%
122	13.125	4024	4028	4036	rVB2	262645	285213	5.31%	0.421%
123	13.167	4036	4041	4045	rBV3	88009	88377	1.65%	0.130%
124	13.225	4053	4059	4065	rBV	303296	353163	6.58%	0.521%
125	13.257	4065	4069	4074	rVB2	121904	128232	2.39%	0.189%
126	13.329	4086	4091	4101	rBV5	124817	188124	3.50%	0.277%
127	13.384	4101	4108	4115	rVB2	403105	474631	8.84%	0.700%
128	13.426	4115	4121	4124	rBV3	66664	65478	1.22%	0.097%
129	13.448	4124	4128	4135	rVB2	75847	74878	1.39%	0.110%
130	13.513	4142	4148	4153	rBV	232815	221382	4.12%	0.326%
131	13.571	4160	4166	4170	rBV3	128773	140223	2.61%	0.207%
132	13.591	4170	4172	4178	rVB	84490	63964	1.19%	0.094%
133	13.662	4188	4194	4203	rVB5	173269	248977	4.64%	0.367%
134	13.727	4206	4214	4218	rBV2	160488	162014	3.02%	0.239%
135	13.976	4287	4291	4299	rVB4	60993	61287	1.14%	0.090%
136	14.109	4319	4332	4343	rVB3	75740	129887	2.42%	0.192%
137	14.225	4361	4368	4373	rBV6	48033	63000	1.17%	0.093%
138	14.458	4431	4440	4446	rBV	133630	138466	2.58%	0.204%
139	14.520	4453	4459	4471	rVB3	86194	99777	1.86%	0.147%
140	14.588	4473	4480	4489	rBV	59458	63474	1.18%	0.094%

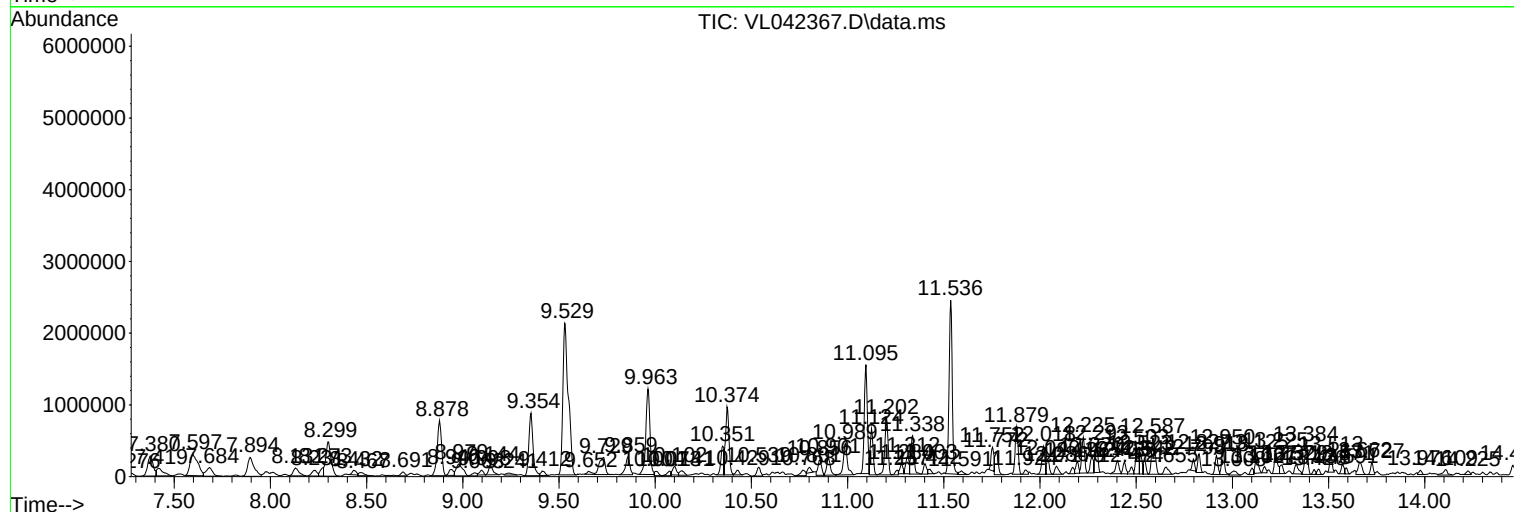
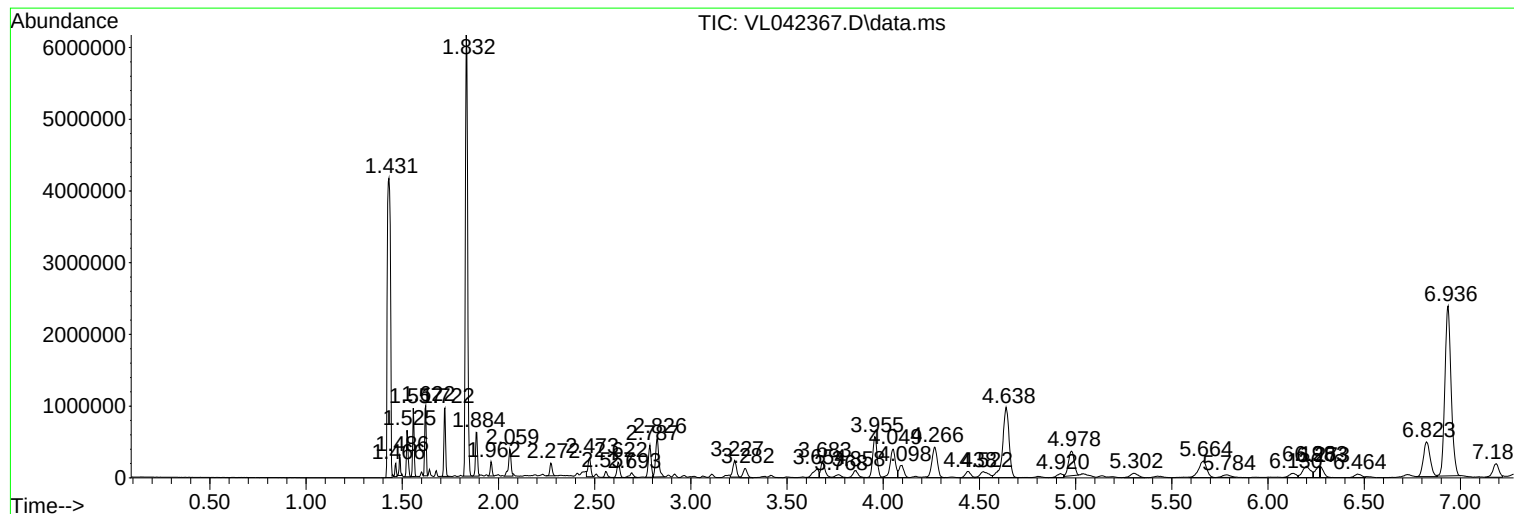
Sum of corrected areas: 67824491

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042367.D
Acq On : 17 Apr 2025 20:38
Operator : SY/MD
Sample : Q1726-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

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 : VL042367.D
Acq On : 17 Apr 2025 20:38
Operator : SY/MD
Sample : Q1726-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

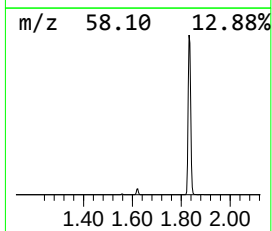
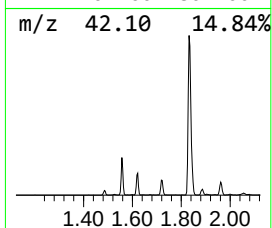
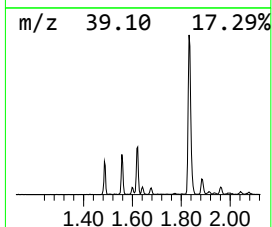
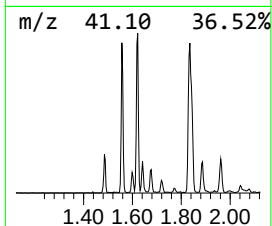
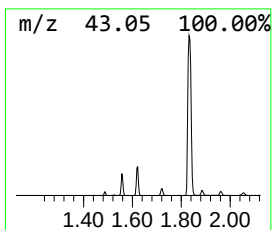
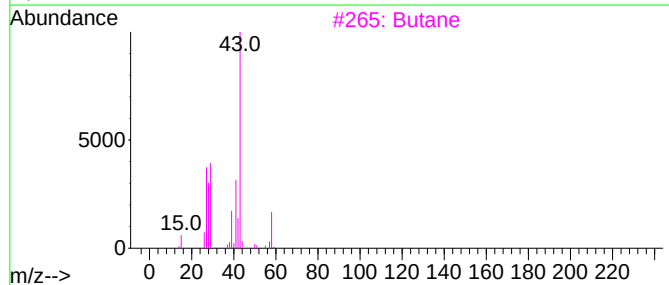
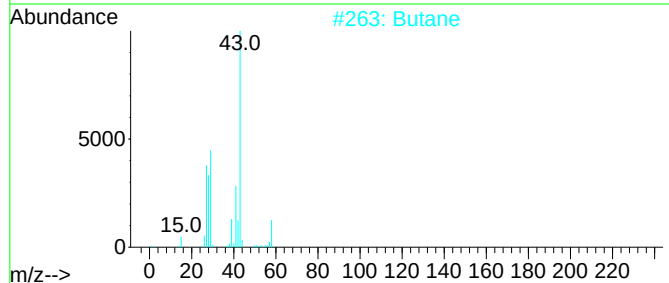
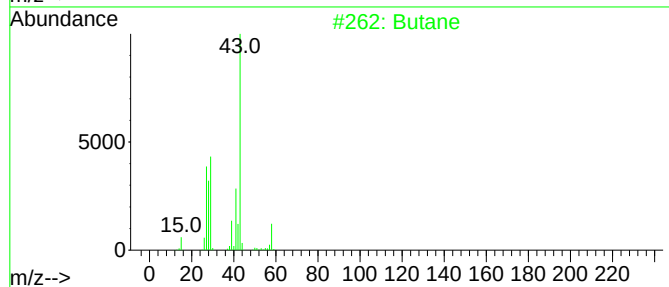
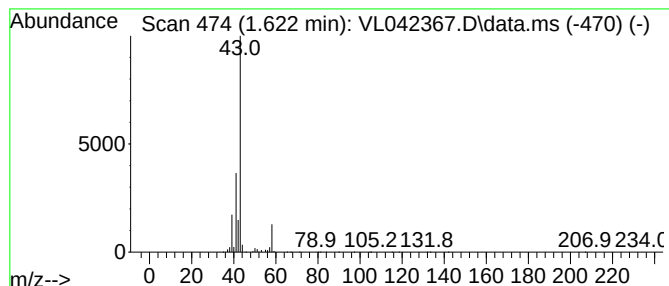
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 1 Butane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.622	12.11 ppbv	539988	Bromochloromethane	2.787

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane			58	C4H10	000106-97-8	72
2	Butane			58	C4H10	000106-97-8	72
3	Butane			58	C4H10	000106-97-8	64
4	Butane			58	C4H10	000106-97-8	64
5	Propane, 1-nitro-			89	C3H7NO2	000108-03-2	28



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042367.D
Acq On : 17 Apr 2025 20:38
Operator : SY/MD
Sample : Q1726-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

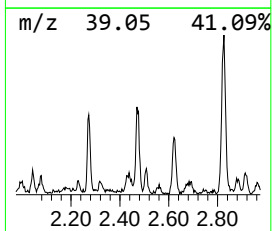
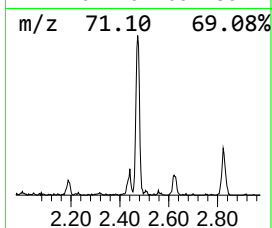
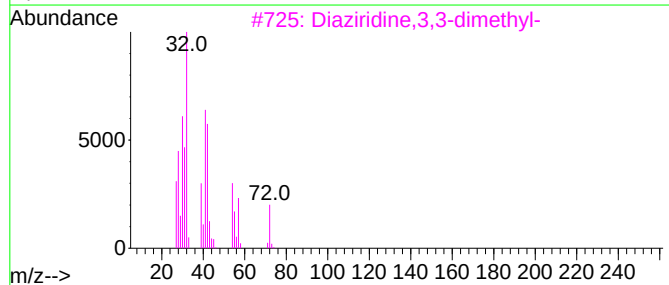
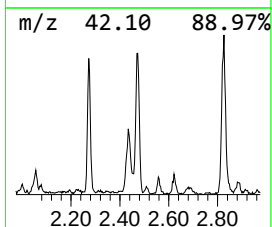
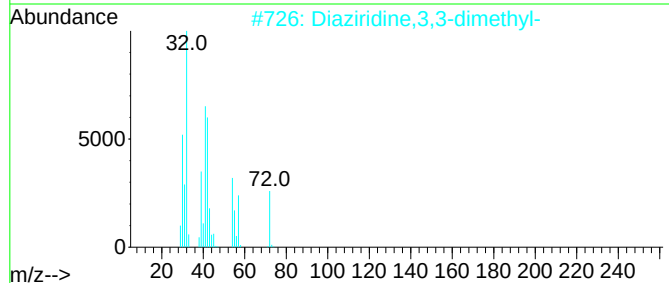
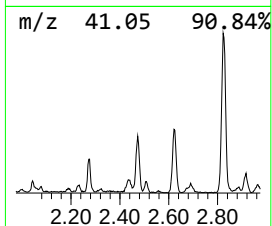
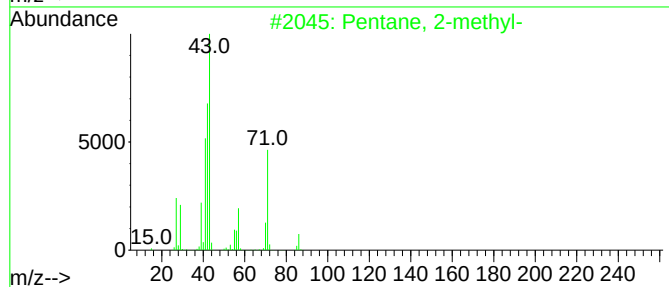
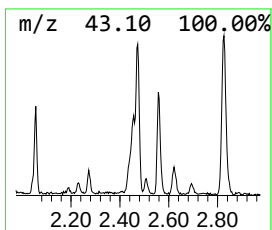
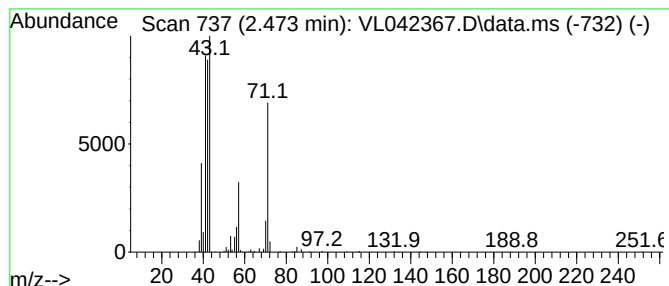
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 2 Pentane, 2-methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.473	5.93 ppbv	264485	Bromochloromethane	2.787

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Pentane, 2-methyl-	86	C6H14	000107-83-5	59
2			Diaziridine,3,3-dimethyl-	72	C3H8N2	004901-76-2	40
3			Diaziridine,3,3-dimethyl-	72	C3H8N2	004901-76-2	40
4			Pentane, 2-methyl-	86	C6H14	000107-83-5	40
5			Pentane, 2-methyl-	86	C6H14	000107-83-5	37



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042367.D
Acq On : 17 Apr 2025 20:38
Operator : SY/MD
Sample : Q1726-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

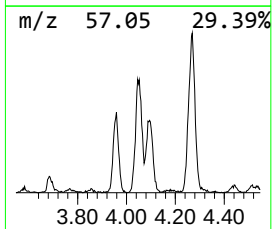
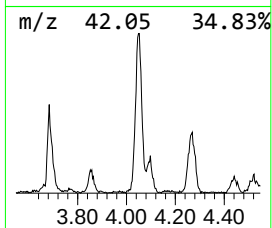
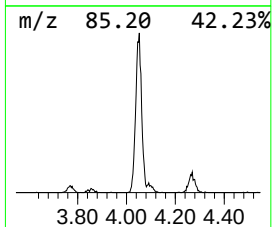
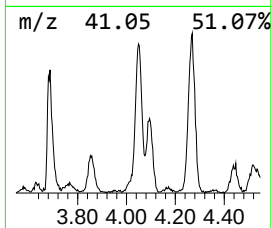
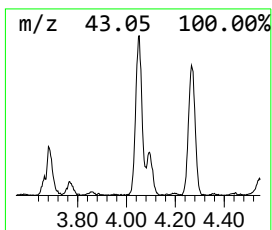
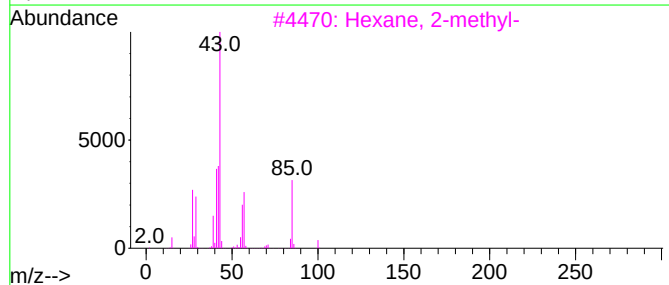
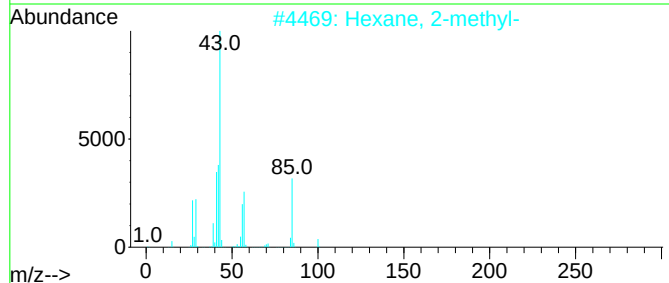
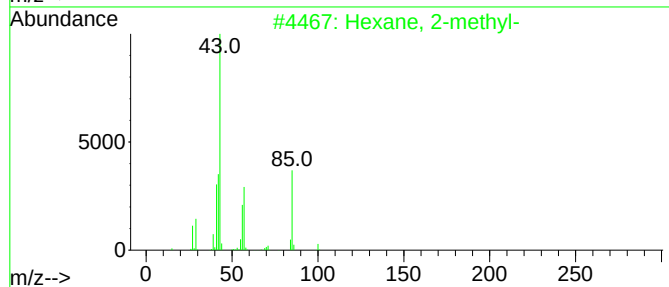
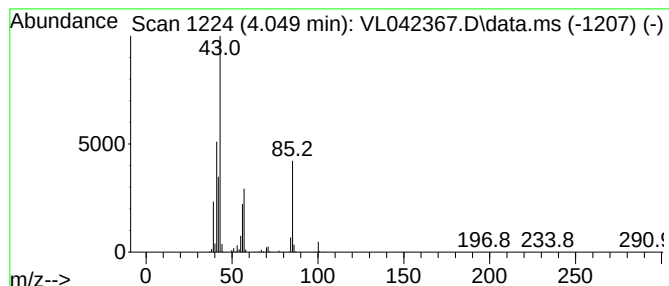
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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.
4.049	8.24 ppbv	749706	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			Heptane, 4,4-dimethyl-	128	C9H20	001068-19-5	59
5			2-Pentanone, 3-ethyl-3-methyl-	128	C8H16O	019780-65-5	53



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042367.D
Acq On : 17 Apr 2025 20:38
Operator : SY/MD
Sample : Q1726-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

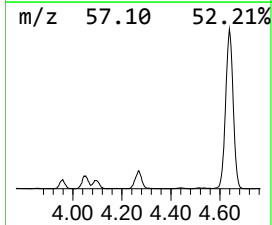
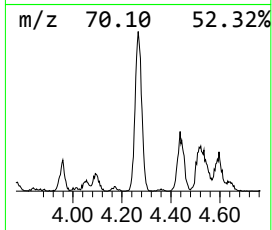
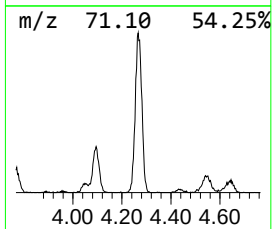
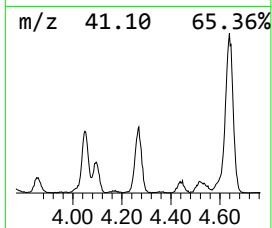
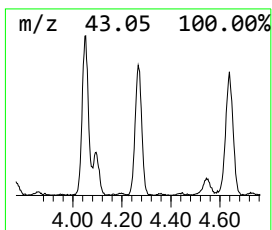
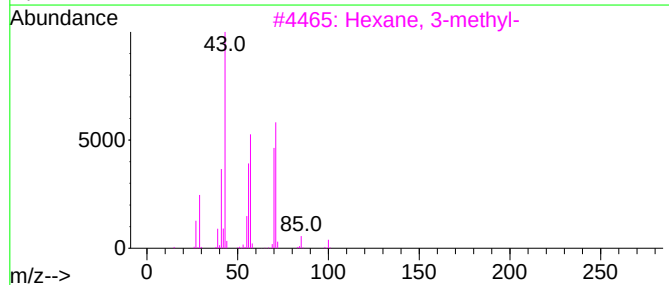
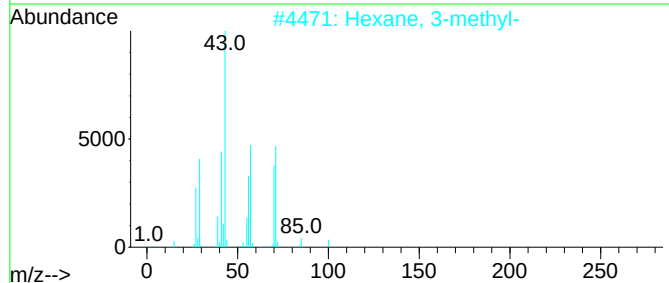
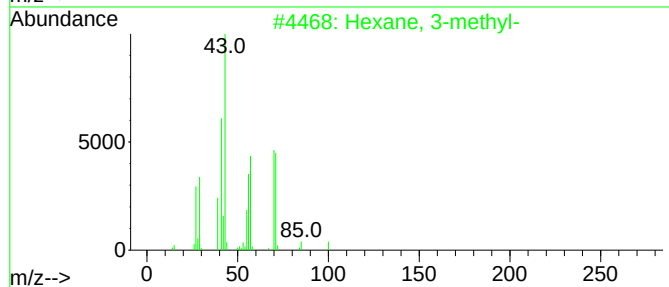
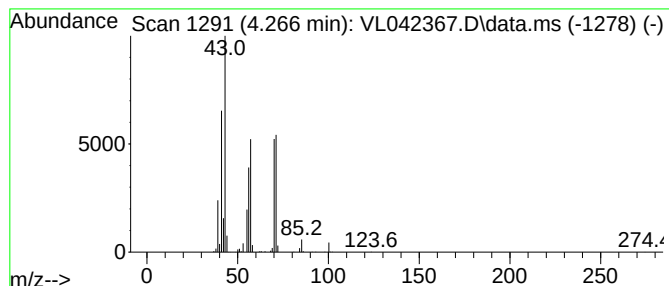
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.266	9.07 ppbv	825757	1,4-Difluorobenzene	3.959

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Hexane, 3-methyl-	100	C7H16	000589-34-4	95
2			Hexane, 3-methyl-	100	C7H16	000589-34-4	94
3			Hexane, 3-methyl-	100	C7H16	000589-34-4	91
4			1-Pentanol, 2-methyl-	102	C6H14O	000105-30-6	78
5			Heptane	100	C7H16	000142-82-5	72



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042367.D
Acq On : 17 Apr 2025 20:38
Operator : SY/MD
Sample : Q1726-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

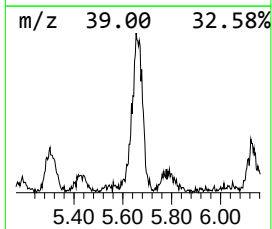
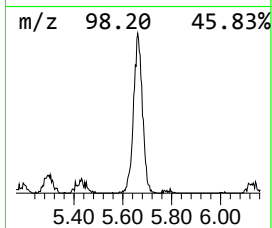
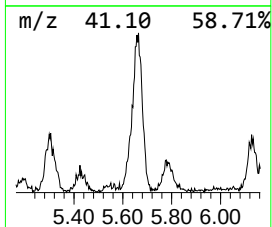
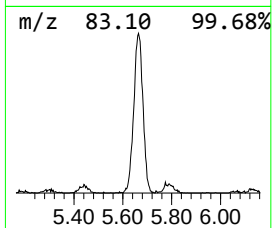
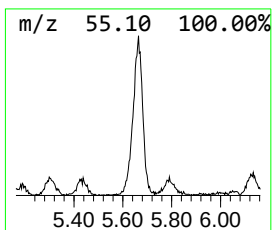
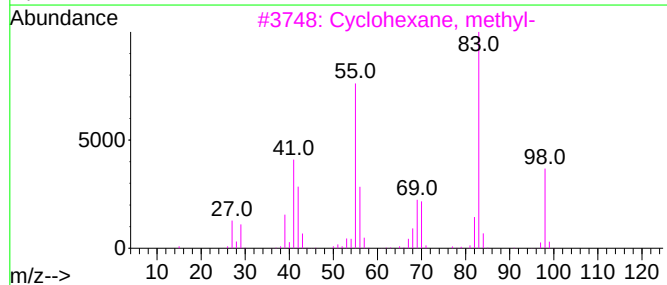
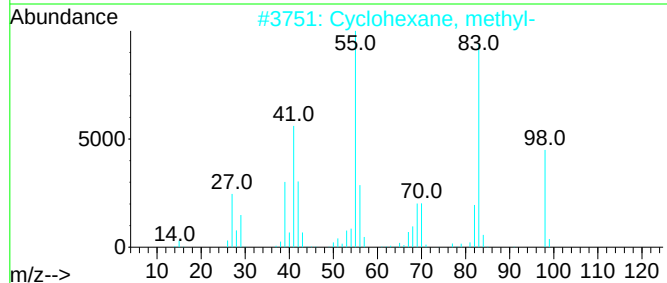
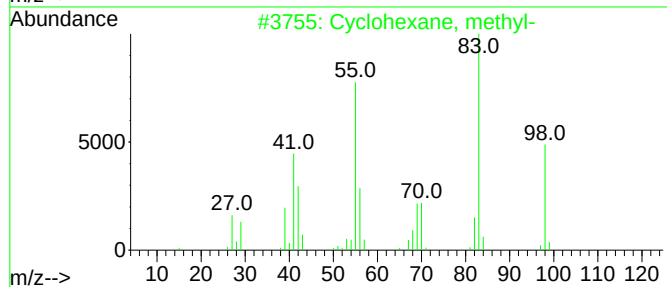
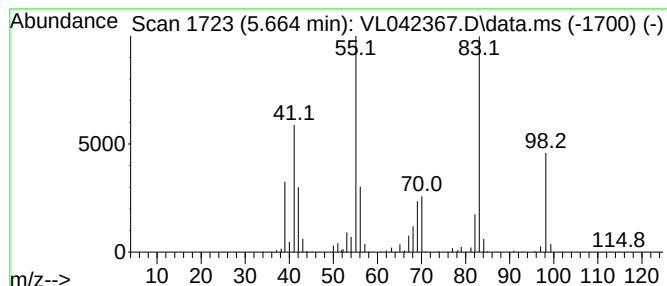
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 5 Cyclohexane, methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.664	7.37 ppbv	671087	1,4-Difluorobenzene	3.959

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Cyclohexane, methyl-	98	C7H14	000108-87-2	97
2			Cyclohexane, methyl-	98	C7H14	000108-87-2	97
3			Cyclohexane, methyl-	98	C7H14	000108-87-2	94
4			Cyclohexane, methyl-	98	C7H14	000108-87-2	93
5			1H-Pyrazole, 4,5-dihydro-4,5-dim...	98	C5H10N2	028019-94-5	59



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042367.D
Acq On : 17 Apr 2025 20:38
Operator : SY/MD
Sample : Q1726-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

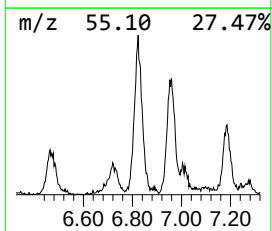
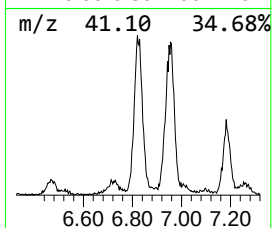
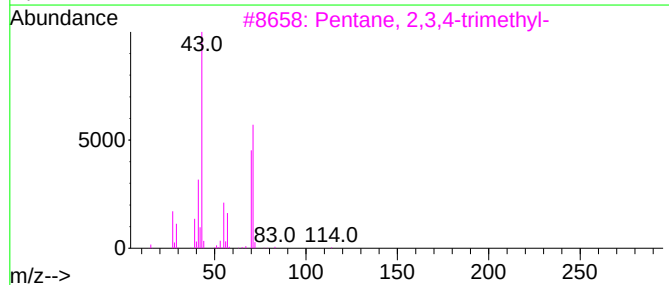
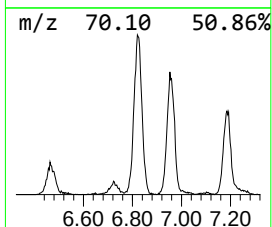
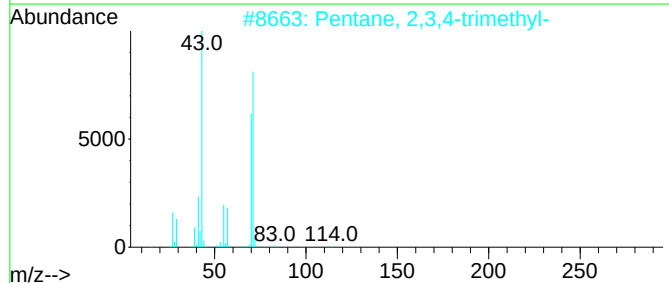
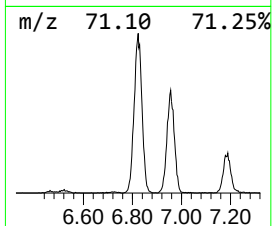
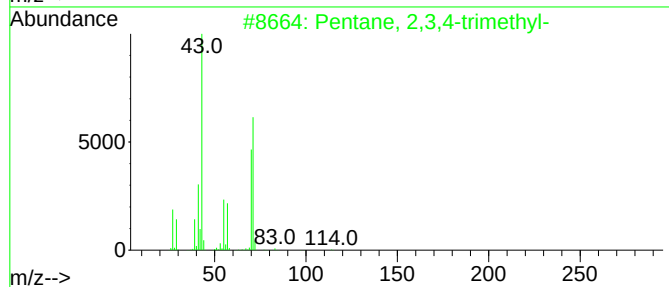
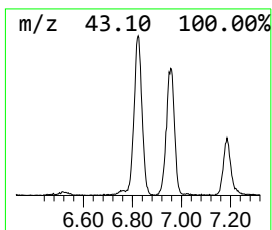
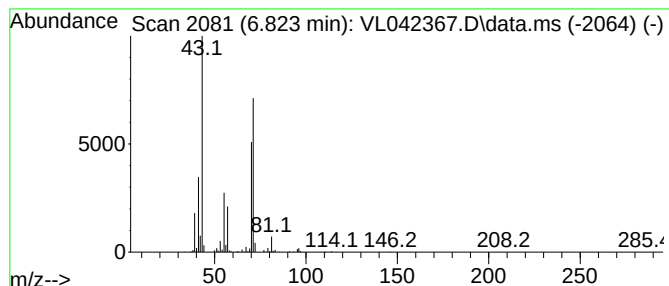
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 6 Pentane, 2,3,4-trimethyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.823	9.93 ppbv	1188520	Chlorobenzene-d5	8.878

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	90
2			Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	90
3			Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	90
4			Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	87
5			2,4,4-Trimethyl-1-hexene	126	C9H18	051174-12-0	72



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042367.D
Acq On : 17 Apr 2025 20:38
Operator : SY/MD
Sample : Q1726-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

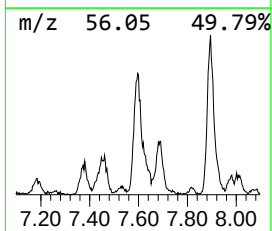
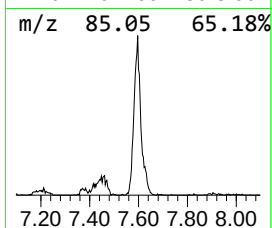
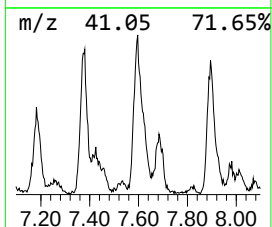
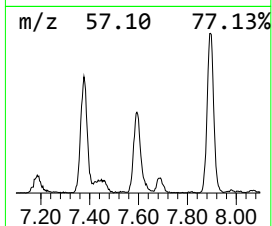
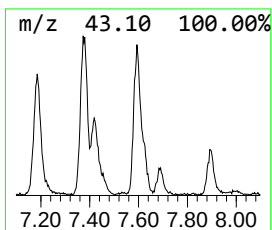
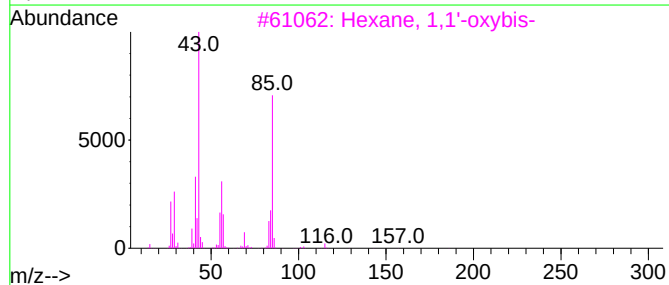
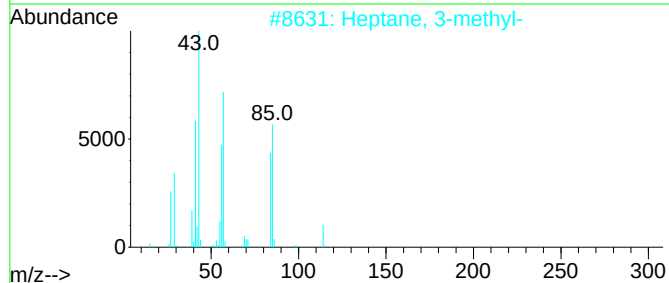
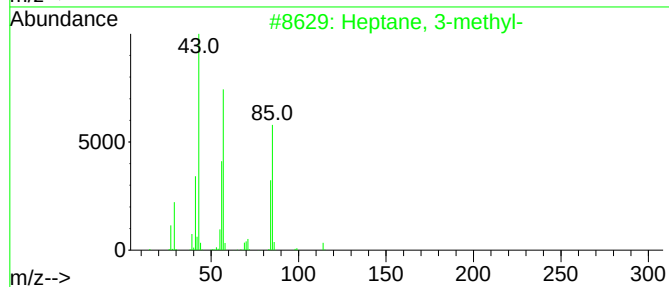
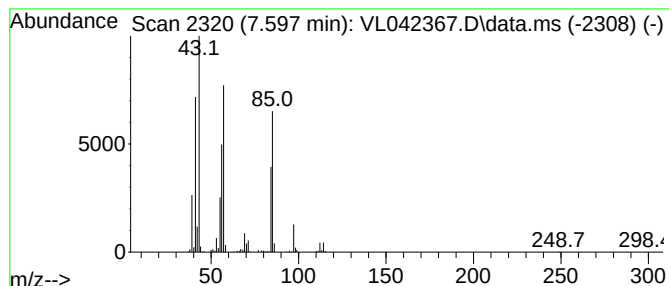
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 7 Heptane, 3-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.597	7.11 ppbv	851006	Chlorobenzene-d5	8.878

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		Heptane, 3-methyl-	114	C8H18	000589-81-1	90
2		Heptane, 3-methyl-	114	C8H18	000589-81-1	90
3		Hexane, 1,1'-oxybis-	186	C12H26O	000112-58-3	53
4		Pentane, 3-ethyl-2,4-dimethyl-	128	C9H20	001068-87-7	50
5		Hexane, 3-ethyl-	114	C8H18	000619-99-8	50



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042367.D
Acq On : 17 Apr 2025 20:38
Operator : SY/MD
Sample : Q1726-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

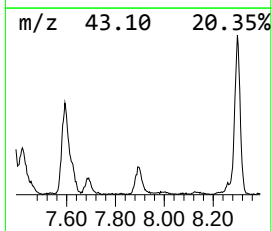
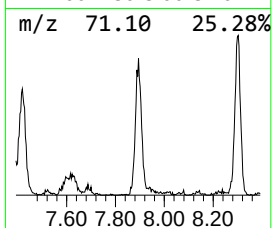
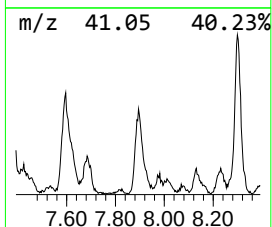
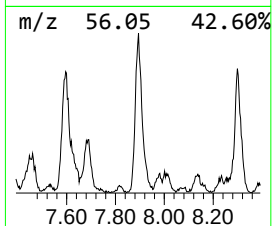
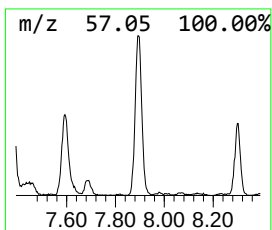
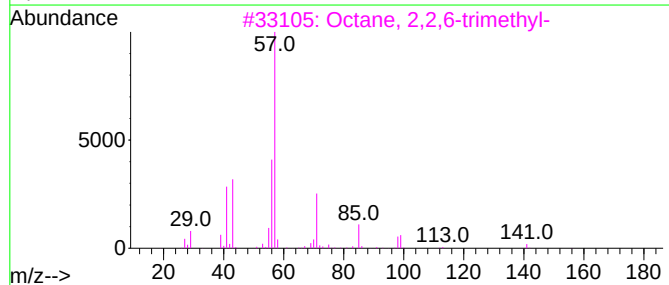
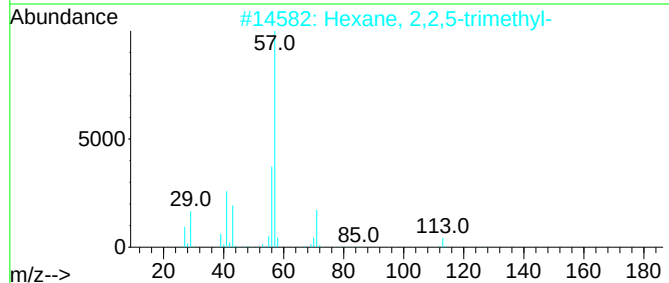
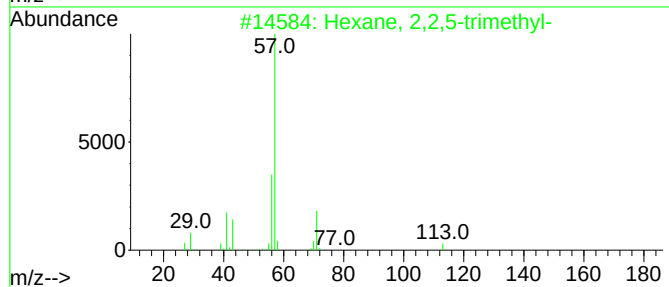
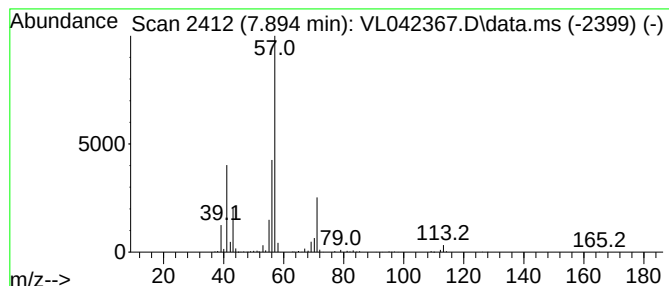
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 8 Hexane, 2,2,5-trimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.894	5.19 ppbv	621270	Chlorobenzene-d5	8.878

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	72
2			Hexane, 2,2,5-trimethyl-	128	C9H20	003522-94-9	64
3			Octane, 2,2,6-trimethyl-	156	C11H24	062016-28-8	56
4			Octane, 2,6-dimethyl-	142	C10H22	002051-30-1	53
5			Pentane, 2,2,4,4-tetramethyl-	128	C9H20	001070-87-7	50



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042367.D
Acq On : 17 Apr 2025 20:38
Operator : SY/MD
Sample : Q1726-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

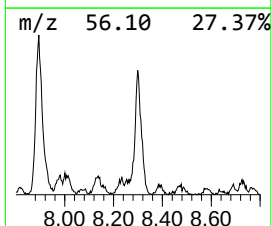
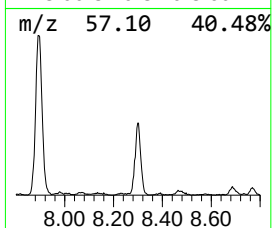
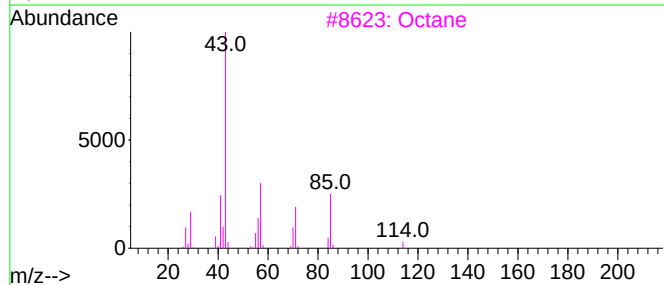
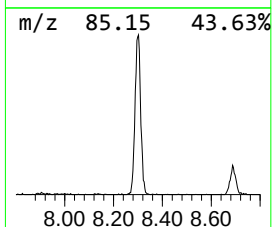
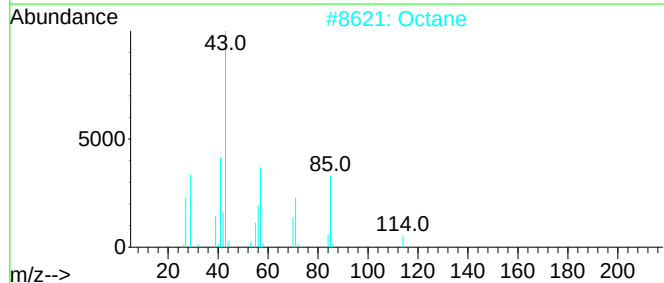
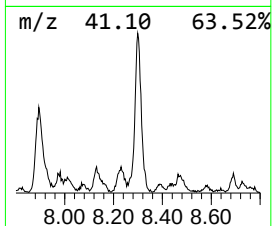
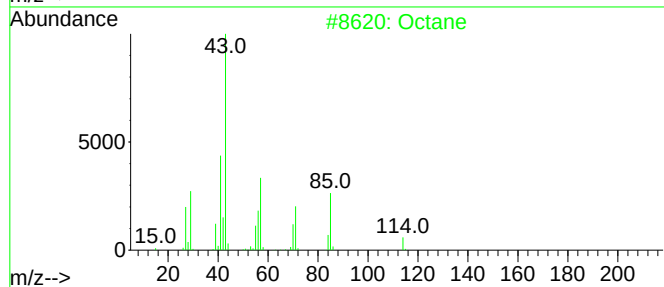
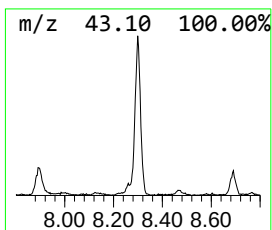
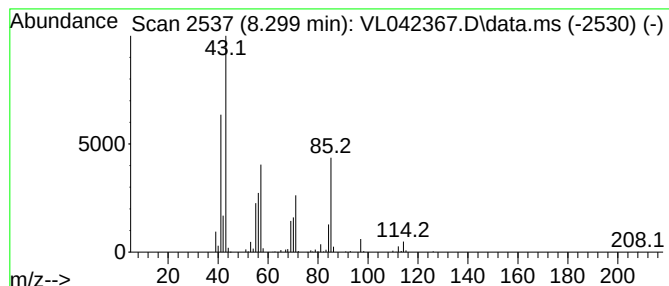
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 9 Octane Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.299	7.49 ppbv	896211	Chlorobenzene-d5	8.878

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane		114	C8H18	000111-65-9	90
2	Octane		114	C8H18	000111-65-9	87
3	Octane		114	C8H18	000111-65-9	68
4	Heptane, 2,4-dimethyl-		128	C9H20	002213-23-2	64
5	Heptane, 2,4-dimethyl-		128	C9H20	002213-23-2	64



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042367.D
Acq On : 17 Apr 2025 20:38
Operator : SY/MD
Sample : Q1726-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

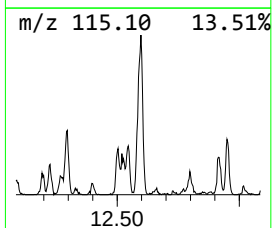
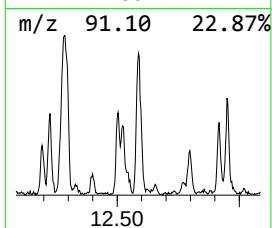
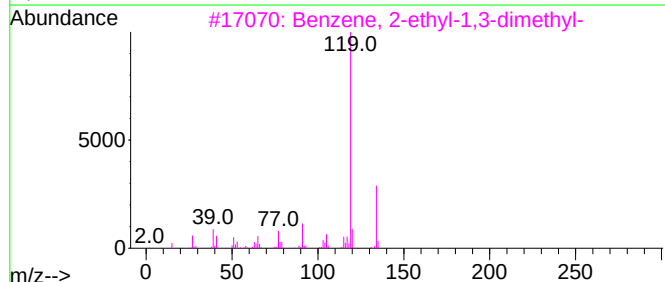
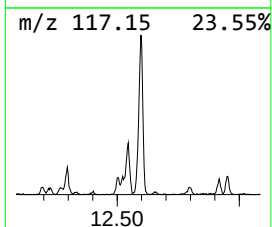
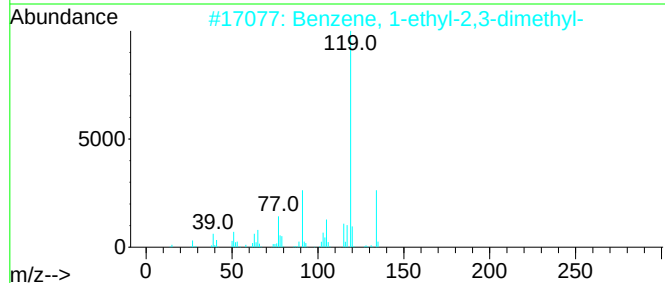
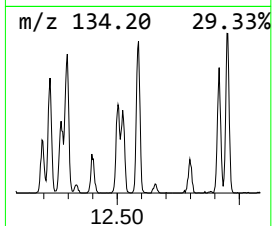
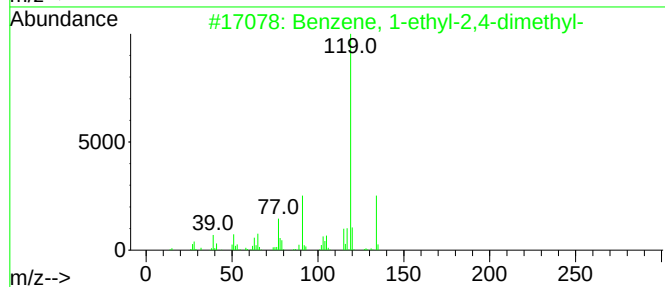
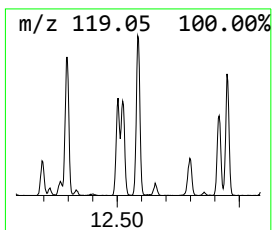
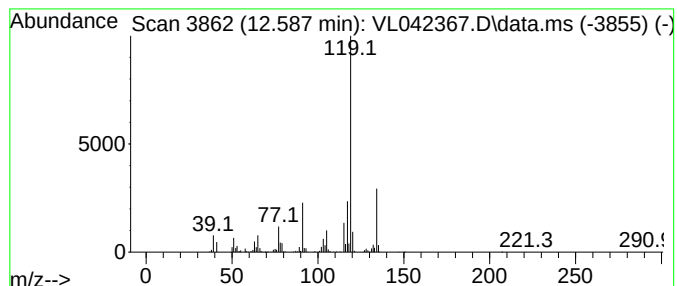
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 10 Benzene, 1-ethyl-2,4-dimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.587	5.73 ppbv	686015	Chlorobenzene-d5	8.878

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042367.D
Acq On : 17 Apr 2025 20:38
Operator : SY/MD
Sample : Q1726-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

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
Butane	1.622	12.1	ppbv	539988	1	2.787	445813	10.0
Pentane, 2-methyl-	2.473	5.9	ppbv	264485	1	2.787	445813	10.0
Hexane, 2-methyl-	4.049	8.2	ppbv	749706	2	3.959	910216	10.0
Hexane, 3-methyl-	4.266	9.1	ppbv	825757	2	3.959	910216	10.0
Cyclohexane, me...	5.664	7.4	ppbv	671087	2	3.959	910216	10.0
Pentane, 2,3,4-...	6.823	9.9	ppbv	1188520	3	8.878	1196500	10.0
Heptane, 3-methyl-	7.597	7.1	ppbv	851006	3	8.878	1196500	10.0
Hexane, 2,2,5-t...	7.894	5.2	ppbv	621270	3	8.878	1196500	10.0
Octane	8.299	7.5	ppbv	896211	3	8.878	1196500	10.0
Benzene, 1-ethy...	12.587	5.7	ppbv	686015	3	8.878	1196500	10.0

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-6-03312025DL	SDG No.:	Q1726
Lab Sample ID:	Q1726-02DL	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
VL042377.D	20		04/18/25 02:01	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	4.20	20.8	UD	20.8	49.5	ug/m3
64-17-5	Ethanol	280	528	DQ	12.1	18.8	ug/m3
74-87-3	Chloromethane	6.70	13.8	JD	4.13	20.6	ug/m3
75-01-4	Vinyl Chloride	0.28	0.72	UD	0.72	1.53	ug/m3
74-83-9	Bromomethane	2.80	10.9	UD	10.9	38.8	ug/m3
75-00-3	Chloroethane	3.40	8.97	UD	8.97	26.4	ug/m3
109-99-9	Tetrahydrofuran	2.60	7.67	UD	7.67	29.5	ug/m3
75-69-4	Trichlorofluoromethane	3.20	18.0	UD	18.0	56.2	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	3.20	24.5	UD	24.5	76.7	ug/m3
76-14-2	Dichlorotetrafluoroethane	1.80	12.6	UD	12.6	69.9	ug/m3
593-60-2	Bromoethene	2.40	10.5	UD	10.5	43.7	ug/m3
75-65-0	tert-Butyl alcohol	3.80	11.5	UD	11.5	30.3	ug/m3
142-82-5	Heptane	7.50	30.7	JD	9.02	41.0	ug/m3
67-63-0	Isopropyl Alcohol	30.4	74.7	D	3.44	24.6	ug/m3
75-35-4	1,1-Dichloroethene	2.80	11.1	UD	11.1	39.6	ug/m3
67-64-1	Acetone	330	784	ED	11.4	23.8	ug/m3
75-15-0	Carbon Disulfide	3.20	9.97	UD	9.97	31.1	ug/m3
1634-04-4	Methyl tert-Butyl Ether	2.40	8.65	UD	8.65	36.0	ug/m3
75-09-2	Methylene Chloride	3.80	13.2	UD	13.2	34.7	ug/m3
156-60-5	trans-1,2-Dichloroethene	3.80	15.1	UD	15.1	39.6	ug/m3
75-34-3	1,1-Dichloroethane	2.60	10.5	UD	10.5	40.5	ug/m3
110-82-7	Cyclohexane	4.40	15.2	UD	15.2	34.4	ug/m3
78-93-3	2-Butanone	2.40	7.08	JD	7.08	29.5	ug/m3
56-23-5	Carbon Tetrachloride	0.22	1.38	UD	1.38	3.77	ug/m3
156-59-2	cis-1,2-Dichloroethene	1.80	7.14	UD	7.14	39.6	ug/m3
67-66-3	Chloroform	1.70	8.30	UD	8.30	48.8	ug/m3
71-55-6	1,1,1-Trichloroethane	0.19	1.04	UD	1.04	3.27	ug/m3
540-84-1	2,2,4-Trimethylpentane	15.6	72.9	D	9.34	46.7	ug/m3
71-43-2	Benzene	2.50	7.99	JD	5.43	31.9	ug/m3
107-06-2	1,2-Dichloroethane	1.80	7.29	UD	7.29	40.5	ug/m3
79-01-6	Trichloroethene	0.34	1.83	UD	1.83	3.22	ug/m3
78-87-5	1,2-Dichloropropane	2.20	10.2	UD	10.2	46.2	ug/m3
75-27-4	Bromodichloromethane	1.50	10.1	UD	10.1	67.0	ug/m3
108-10-1	4-Methyl-2-Pentanone	1.90	7.79	UD	7.79	41.0	ug/m3
108-88-3	Toluene	45.3	171	D	8.29	37.7	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-6-03312025DL	SDG No.:	Q1726
Lab Sample ID:	Q1726-02DL	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
VL042377.D	20		04/18/25 02:01	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	1.20	5.45	UD	5.45	45.4	ug/m3
10061-01-5	cis-1,3-Dichloropropene	1.30	5.90	UD	5.90	45.4	ug/m3
79-00-5	1,1,2-Trichloroethane	1.40	7.64	UD	7.64	54.6	ug/m3
124-48-1	Dibromochloromethane	1.30	11.1	UD	11.1	85.2	ug/m3
106-93-4	1,2-Dibromoethane	1.40	10.8	UD	10.8	15.4	ug/m3
127-18-4	Tetrachloroethene	0.30	2.03	UD	2.03	4.07	ug/m3
108-90-7	Chlorobenzene	1.50	6.91	UD	6.91	46.0	ug/m3
100-41-4	Ethyl Benzene	9.10	39.5	JD	10.4	43.4	ug/m3
179601-23-1	m/p-Xylene	33.8	147	D	18.2	86.9	ug/m3
95-47-6	o-Xylene	13.4	58.2	D	10.4	43.4	ug/m3
100-42-5	Styrene	2.20	9.37	UD	9.37	42.6	ug/m3
75-25-2	Bromoform	1.10	11.4	UD	11.4	103	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.22	1.51	UD	1.51	4.12	ug/m3
95-49-8	2-Chlorotoluene	2.20	11.4	UD	11.4	51.8	ug/m3
108-67-8	1,3,5-Trimethylbenzene	5.40	26.6	JD	10.8	49.2	ug/m3
95-63-6	1,2,4-Trimethylbenzene	17.1	84.1	D	7.87	49.2	ug/m3
541-73-1	1,3-Dichlorobenzene	1.60	9.62	UD	9.62	60.1	ug/m3
106-46-7	1,4-Dichlorobenzene	1.10	6.61	UD	6.61	60.1	ug/m3
95-50-1	1,2-Dichlorobenzene	1.50	9.02	UD	9.02	60.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	1.70	12.6	UD	12.6	74.2	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	1.70	18.1	UD	18.1	107	ug/m3
106-99-0	1,3-Butadiene	2.60	5.75	UD	5.75	22.1	ug/m3
91-20-3	Naphthalene	1.50	7.86	UD	7.86	10.5	ug/m3
622-96-8	4-Ethyltoluene	4.70	23.1	JD	11.8	49.2	ug/m3
110-54-3	Hexane	2.20	7.75	UD	7.75	35.2	ug/m3
107-05-1	Allyl Chloride	3.00	9.39	UD	9.39	31.3	ug/m3
123-91-1	1,4-Dioxane	4.20	15.1	UD	15.1	36.0	ug/m3
80-62-6	Methyl Methacrylate	1.70	6.96	UD	6.96	41.0	ug/m3

SURROGATES

460-00-4	1-Bromo-4-Fluorobenzene	10.4		70 (65) - 130 (135)	104%	SPK: 10
----------	-------------------------	------	--	---------------------	------	---------

INTERNAL STANDARDS

74-97-5	Bromochloromethane	99400	2.784
540-36-3	1,4-Difluorobenzene	273000	3.955
3114-55-4	Chlorobenzene-d5	238000	8.878

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-6-03312025DL	SDG No.:	Q1726
Lab Sample ID:	Q1726-02DL	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
VL042377.D	20		04/18/25 02:01	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 : VL042377.D
 Acq On : 18 Apr 2025 02:01
 Operator : SY/MD
 Sample : Q1726-02DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-6-03312025DL

Manual Integrations
 APPROVED

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

Quant Time: Apr 18 04:40:09 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	2.784	49	99418	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	272592	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	237645	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	202954	10.393	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.900%
Target Compounds						Qvalue
4) Chloromethane	1.531	50	2346	0.337	ppbv	99
9) Propene	1.486	41	1509m	0.198	ppbv	
10) Heptane	4.975	43	8029m	0.375	ppbv	
13) Ethanol	1.719	45	17233	14.234	ppbv	84
15) Acetone	1.832	43	269648	16.568	ppbv	98
19) Isopropyl Alcohol	1.884	45	13751	1.521	ppbv #	1
30) Cyclohexane	3.852	84	1417m	0.108	ppbv	
34) 2-Butanone	2.560	43	2582	0.120	ppbv #	88
36) Benzene	3.651	78	3607m	0.123	ppbv	
44) 2,2,4-Trimethylpentane	4.635	57	39733	0.782	ppbv #	90
53) Toluene	6.927	91	79886	2.264	ppbv	100
58) Ethyl Benzene	9.348	91	21503	0.457	ppbv	98
59) m/p-Xylene	9.529	91	64193m	1.692	ppbv	
60) o-Xylene	9.959	91	25512	0.668	ppbv	97
64) n-propylbenzene	10.982	120	2250m	0.160	ppbv	
72) 4-Ethyltoluene	11.121	105	10921	0.234	ppbv #	64
73) 1,3,5-Trimethylbenzene	11.202	105	11199	0.272	ppbv #	84
74) 1,2,4-Trimethylbenzene	11.532	105	41057	0.853	ppbv #	66

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

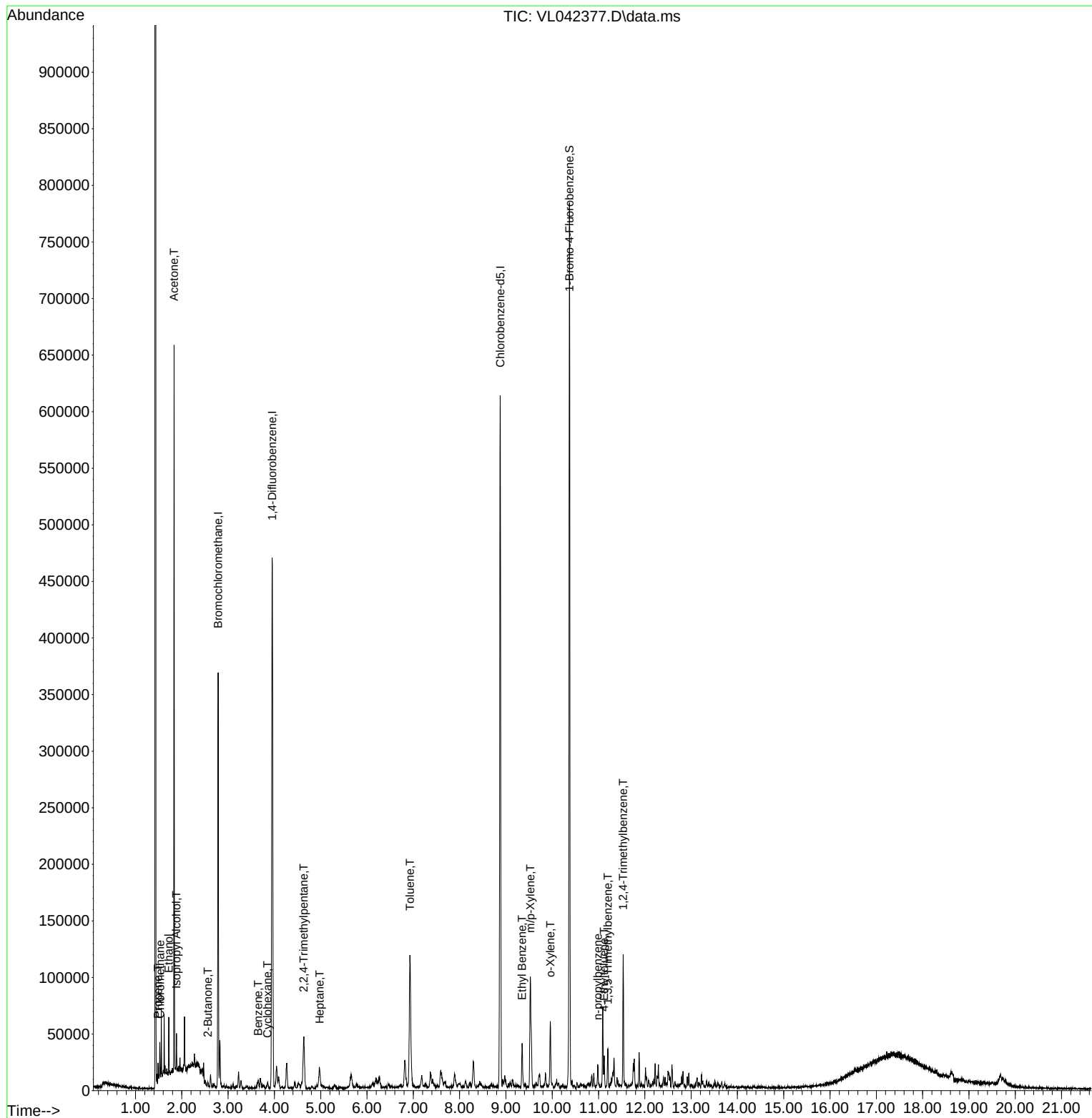
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042377.D
Acq On : 18 Apr 2025 02:01
Operator : SY/MD
Sample : Q1726-02DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

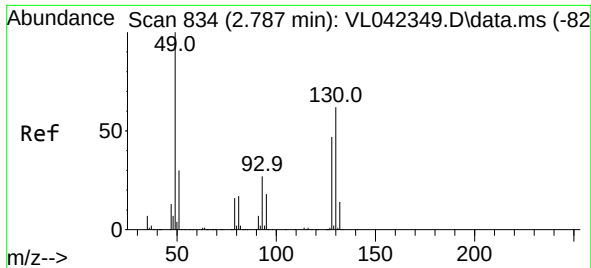
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL

Quant Time: Apr 18 04:40:09 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

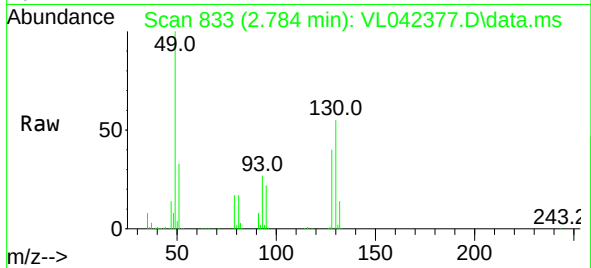
Reviewed By : Semsettin Yesilyurt 04/18/2025
Supervised By : Mahesh Dadoda 04/18/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

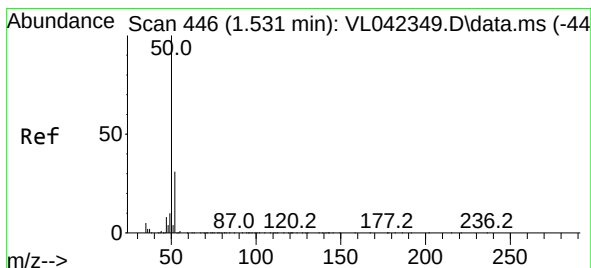
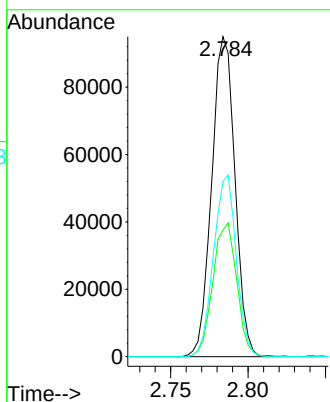
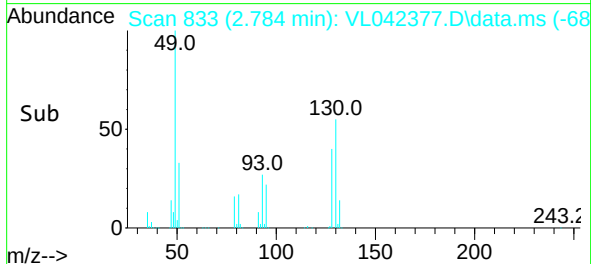
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL



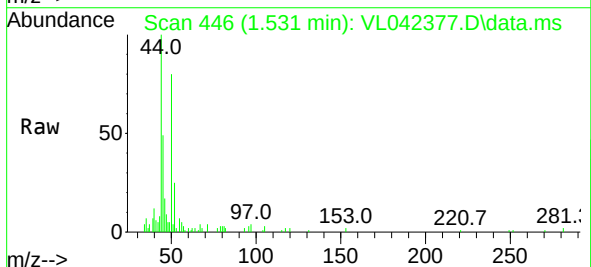
Tgt Ion: 49 Resp: 99418
Ion Ratio Lower Upper
49 100
128 42.9 22.8 68.4
130 55.5 29.3 88.0

Manual Integrations
APPROVED

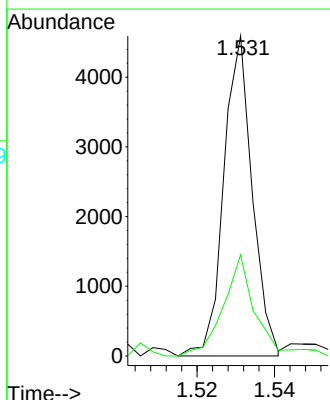
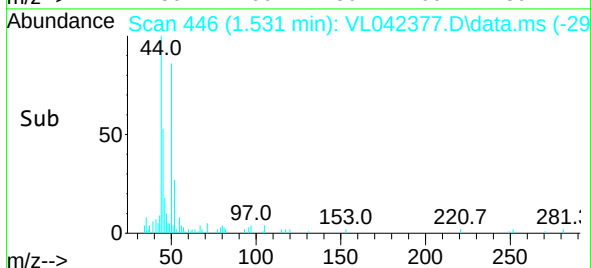
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

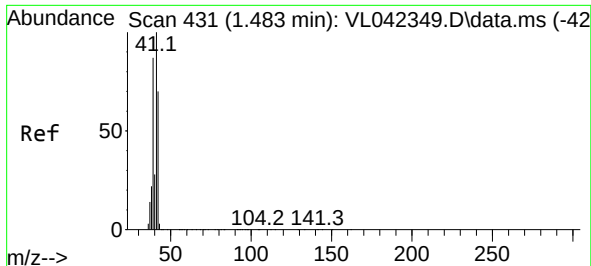


#4
Chloromethane
Concen: 0.337 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01



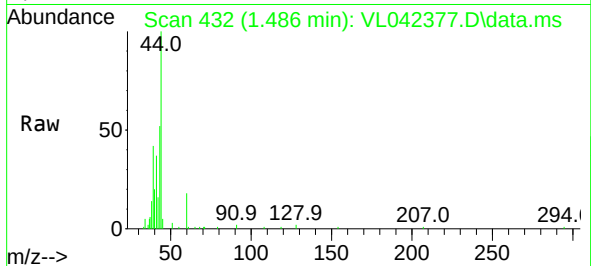
Tgt Ion: 50 Resp: 2346
Ion Ratio Lower Upper
50 100
52 31.6 24.7 37.1





#9
 Propene
 Concen: 0.198 ppbv m
 RT: 1.486 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL042377.D
 Acq: 18 Apr 2025 02:01

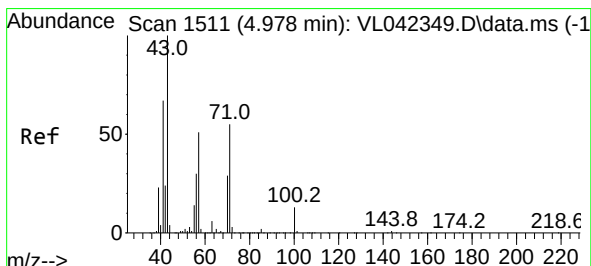
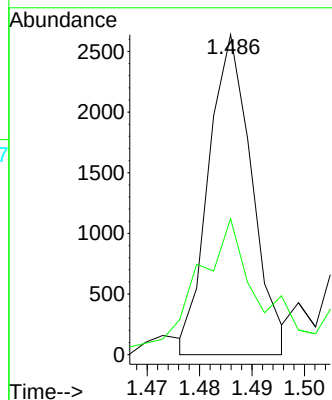
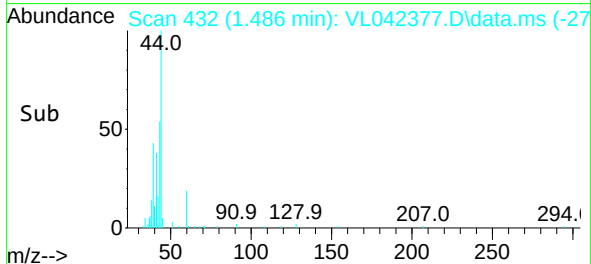
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-6-03312025DL



Tgt Ion: 41 Resp: 1509
 Ion Ratio Lower Upper
 41 100
 42 221.3 56.2 84.4

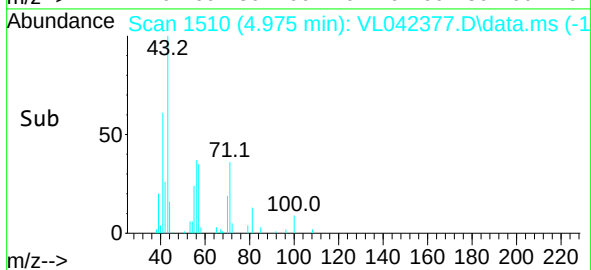
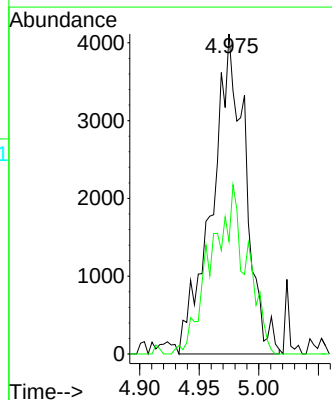
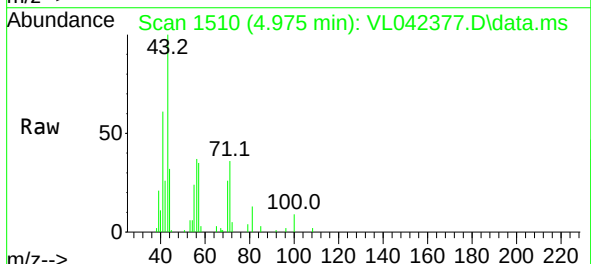
Manual Integrations
 APPROVED

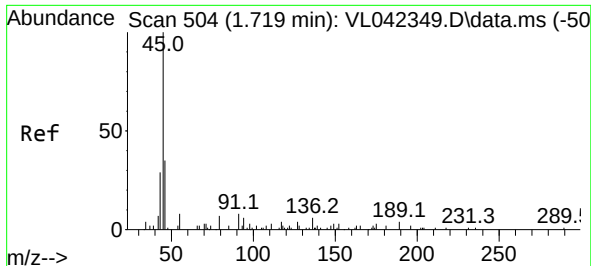
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#10
 Heptane
 Concen: 0.375 ppbv m
 RT: 4.975 min Scan# 1510
 Delta R.T. -0.003 min
 Lab File: VL042377.D
 Acq: 18 Apr 2025 02:01

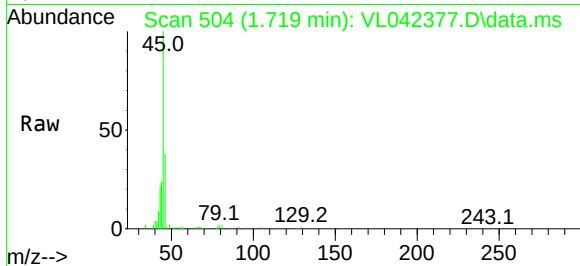
Tgt Ion: 43 Resp: 8029
 Ion Ratio Lower Upper
 43 100
 57 57.0 39.9 59.9





#13
Ethanol
Concen: 14.234 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

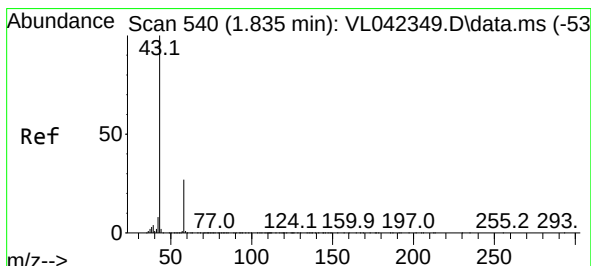
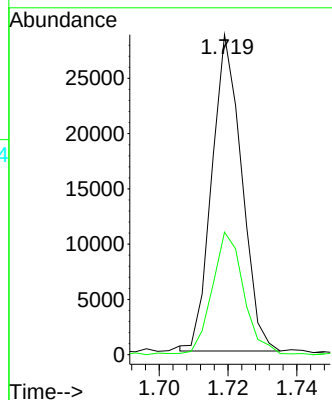
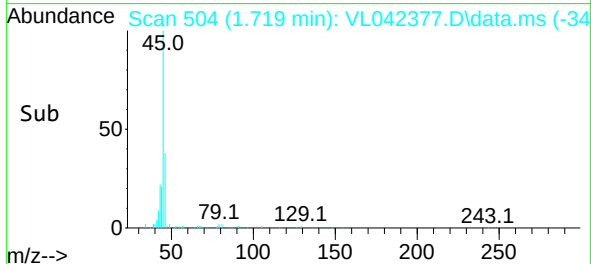
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL



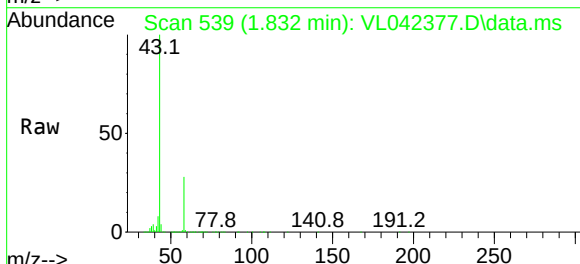
Tgt Ion: 45 Resp: 1723
Ion Ratio Lower Upper
45 100
46 43.5 21.9 87.7

Manual Integrations
APPROVED

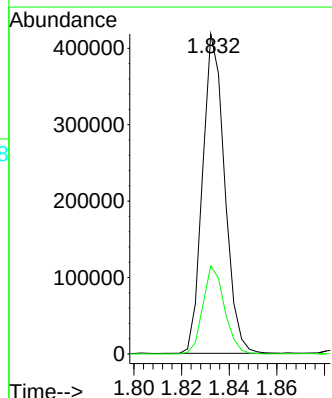
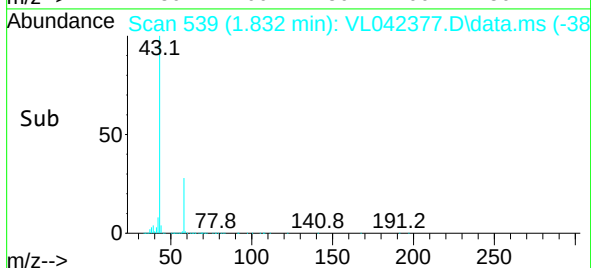
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

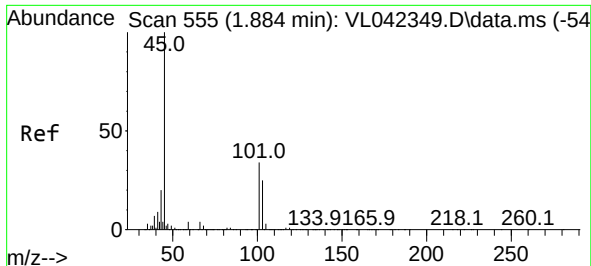


#15
Acetone
Concen: 16.568 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.003 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01



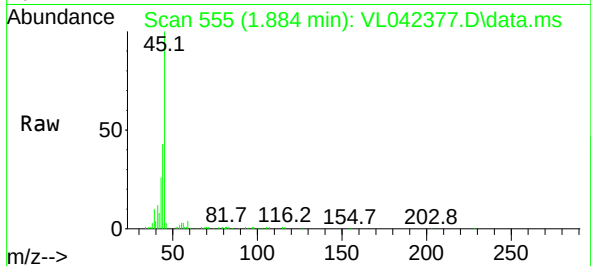
Tgt Ion: 43 Resp: 269648
Ion Ratio Lower Upper
43 100
58 27.0 22.4 33.6





#19
Isopropyl Alcohol
Concen: 1.521 ppbv
RT: 1.884 min Scan# 51
Delta R.T. 0.000 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

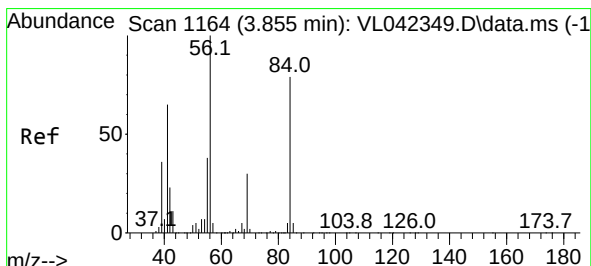
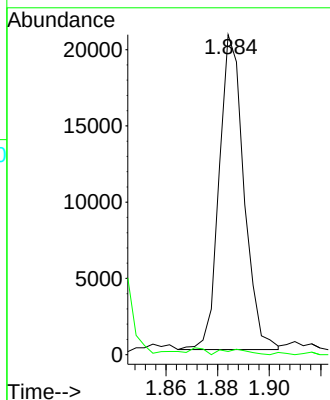
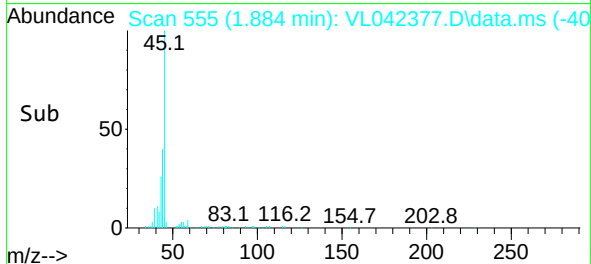
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL



Tgt Ion: 45 Resp: 1375
Ion Ratio Lower Upper
45 100
58 530.4 34.5 51.7

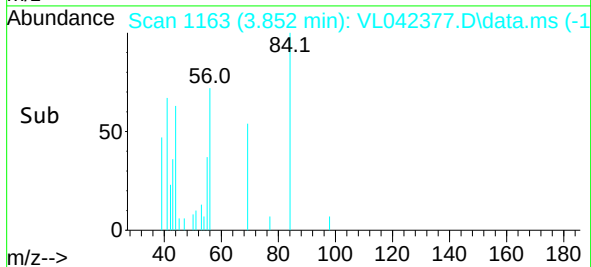
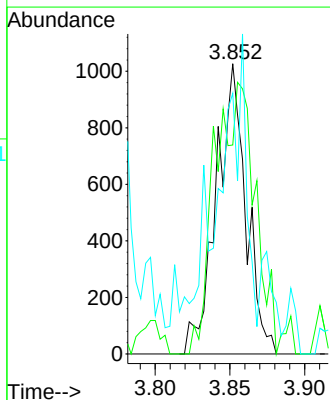
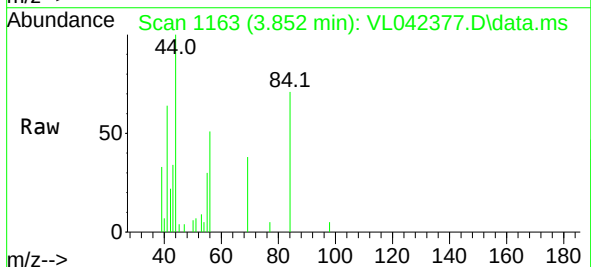
Manual Integrations
APPROVED

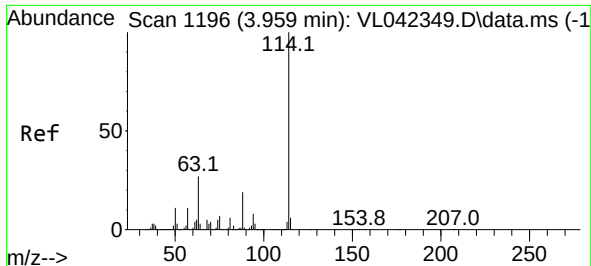
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#30
Cyclohexane
Concen: 0.108 ppbv m
RT: 3.852 min Scan# 1163
Delta R.T. -0.003 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

Tgt Ion: 84 Resp: 1417
Ion Ratio Lower Upper
84 100
56 131.1 101.0 151.4
41 117.7 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: VL042377.D

Acq: 18 Apr 2025 02:01

Instrument :

MSVOA_L

ClientSampleId :

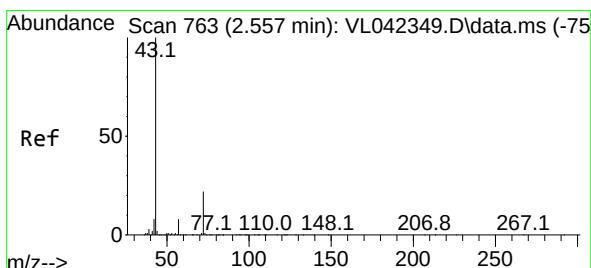
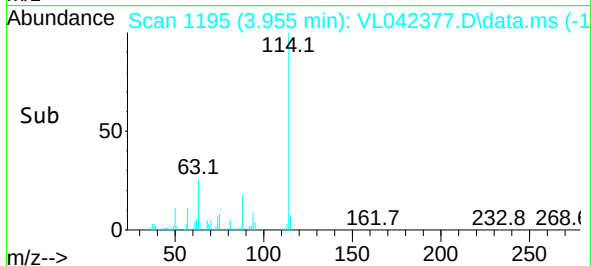
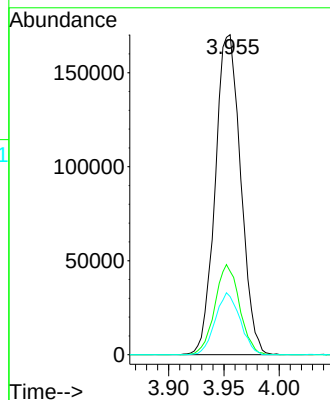
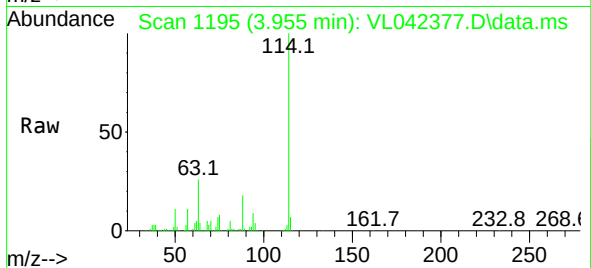
IA-B2-6-03312025DL

Tgt Ion:	114	Resp:	272592
Ion	Ratio	Lower	Upper
114	100		
63	27.3	21.8	32.6
88	18.8	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: 0.120 ppbv

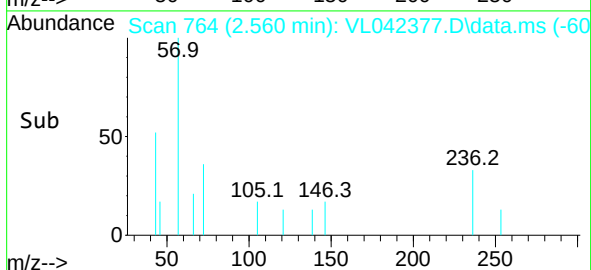
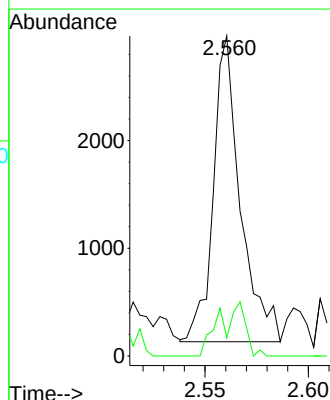
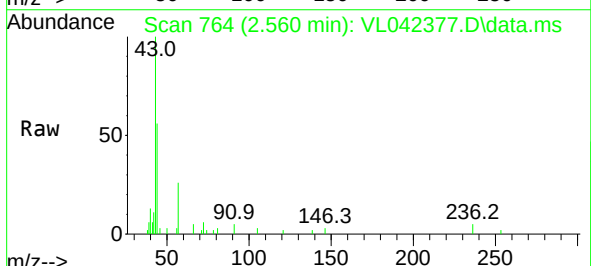
RT: 2.560 min Scan# 764

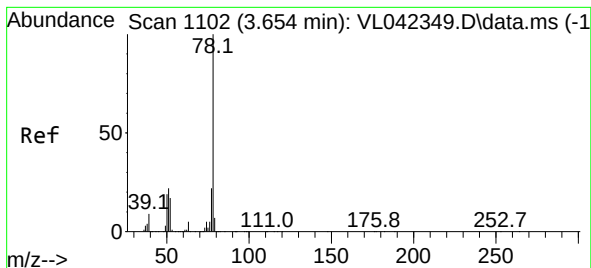
Delta R.T. 0.003 min

Lab File: VL042377.D

Acq: 18 Apr 2025 02:01

Tgt Ion:	43	Resp:	2582
Ion	Ratio	Lower	Upper
43	100		
72	17.0	18.2	27.2#





#36

Benzene

Concen: 0.123 ppbv

RT: 3.651 min Scan# 1101

Delta R.T. -0.003 min

Lab File: VL042377.D

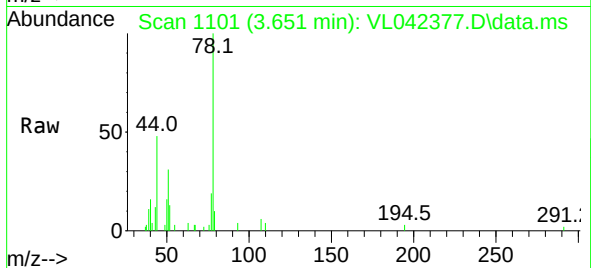
Acq: 18 Apr 2025 02:01

Instrument :

MSVOA_L

ClientSampleId :

IA-B2-6-03312025DL



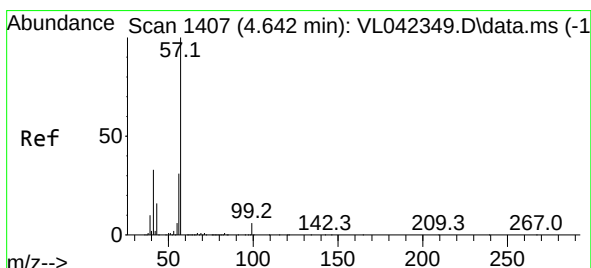
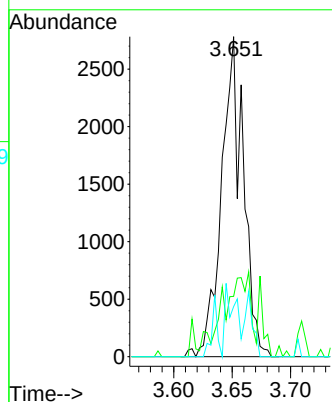
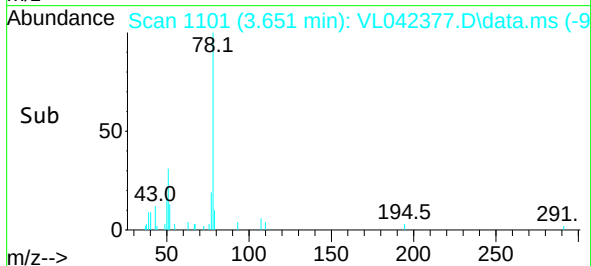
Tgt Ion: 78 Resp: 360

Ion	Ratio	Lower	Upper
78	100		
77	18.9	17.4	26.0
50	15.7	15.5	23.3

Manual Integrations

APPROVED

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



#44

2,2,4-Trimethylpentane

Concen: 0.782 ppbv

RT: 4.635 min Scan# 1405

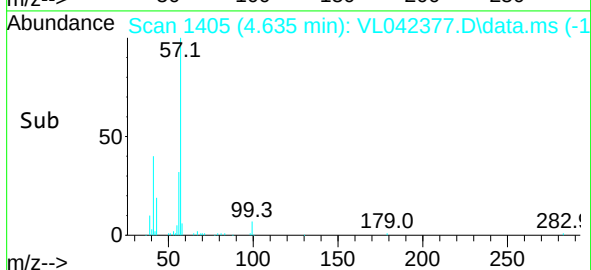
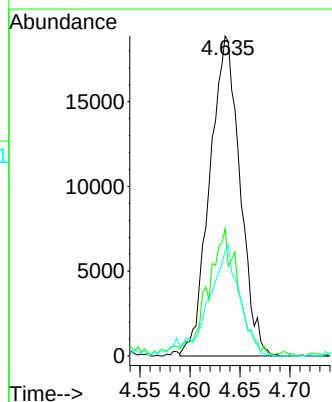
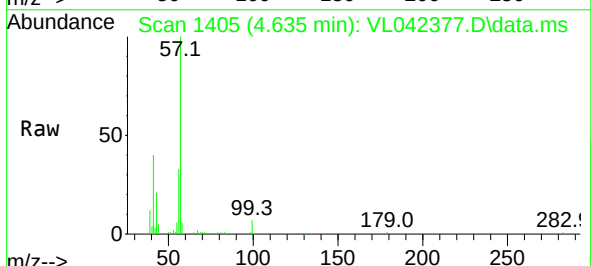
Delta R.T. -0.006 min

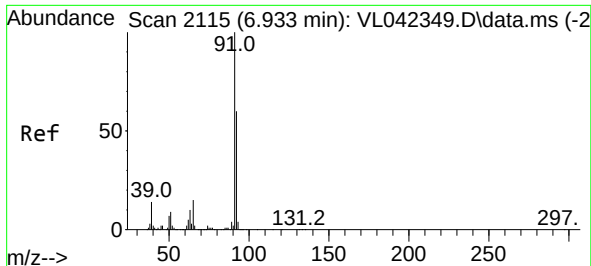
Lab File: VL042377.D

Acq: 18 Apr 2025 02:01

Tgt Ion: 57 Resp: 39733

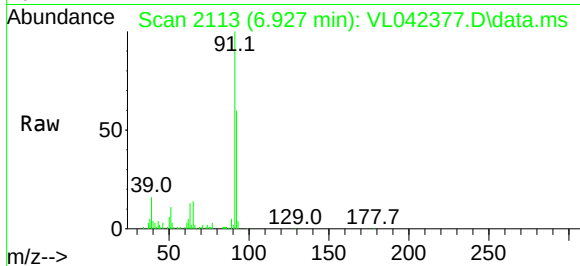
Ion	Ratio	Lower	Upper
57	100		
41	41.9	27.2	40.8
56	36.0	25.7	38.5





#53
Toluene
Concen: 2.264 ppbv
RT: 6.927 min Scan# 2113
Delta R.T. -0.006 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

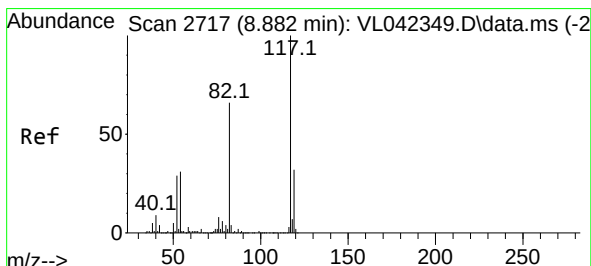
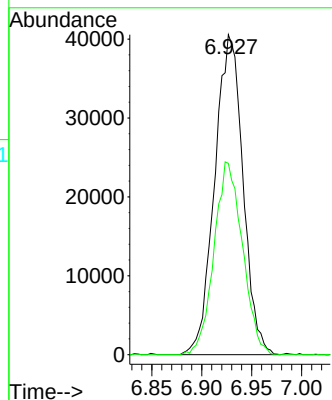
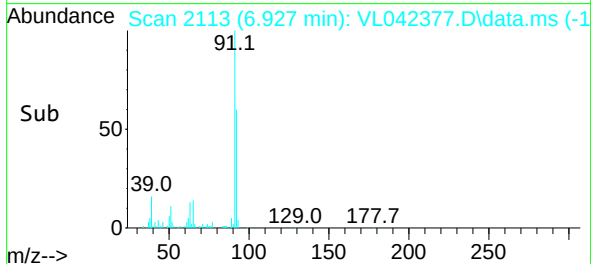
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL



Tgt Ion: 91 Resp: 79880
Ion Ratio Lower Upper
91 100
92 60.5 48.2 72.4

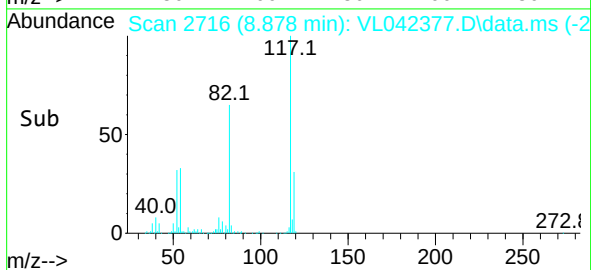
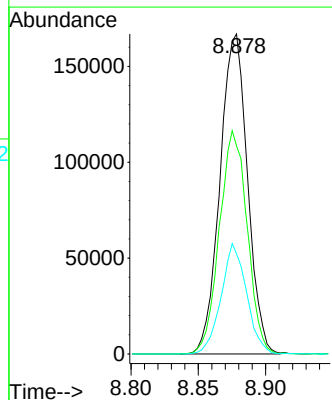
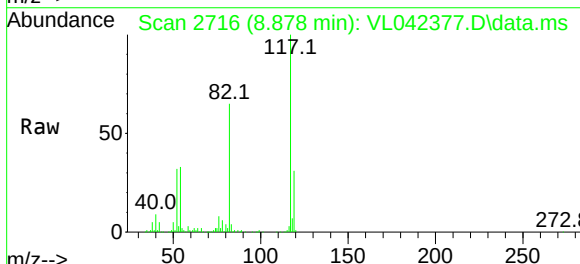
Manual Integrations
APPROVED

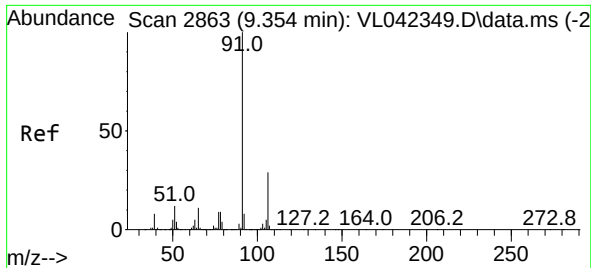
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2716
Delta R.T. -0.003 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

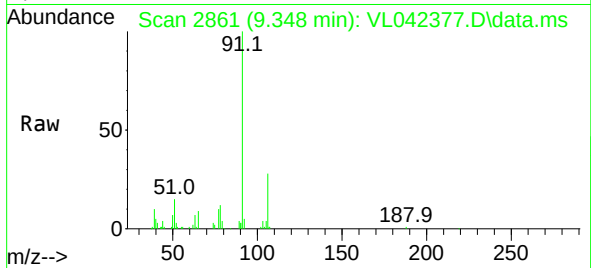
Tgt Ion:117 Resp: 237645
Ion Ratio Lower Upper
117 100
82 70.3 57.8 86.6
119 31.9 25.2 37.8





#58
Ethyl Benzene
Concen: 0.457 ppbv
RT: 9.348 min Scan# 2150
Delta R.T. -0.006 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

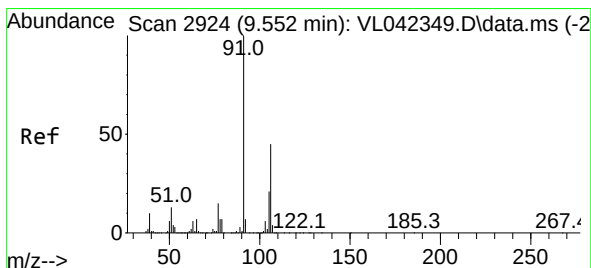
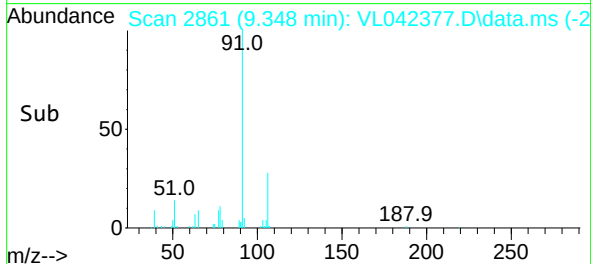
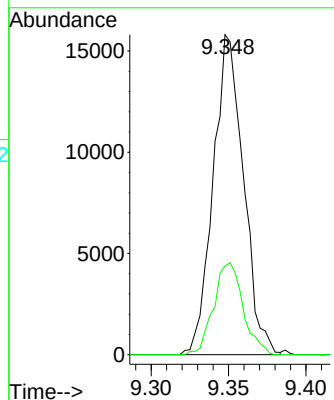
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL



Tgt Ion: 91 Resp: 2150
Ion Ratio Lower Upper
91 100
106 27.7 23.0 34.4

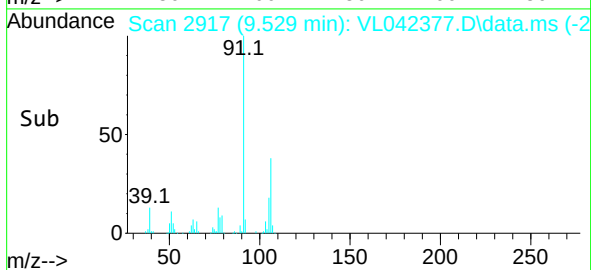
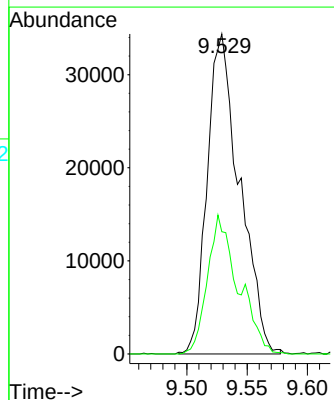
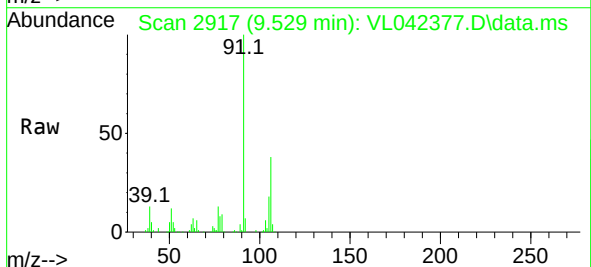
Manual Integrations
APPROVED

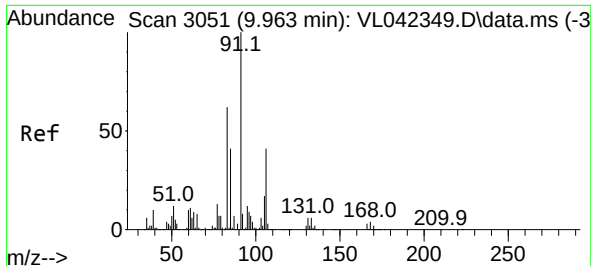
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#59
m/p-Xylene
Concen: 1.692 ppbv m
RT: 9.529 min Scan# 2917
Delta R.T. -0.023 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

Tgt Ion: 91 Resp: 64193
Ion Ratio Lower Upper
91 100
106 0.0 35.4 53.2#





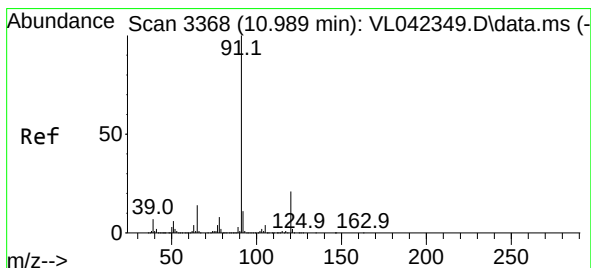
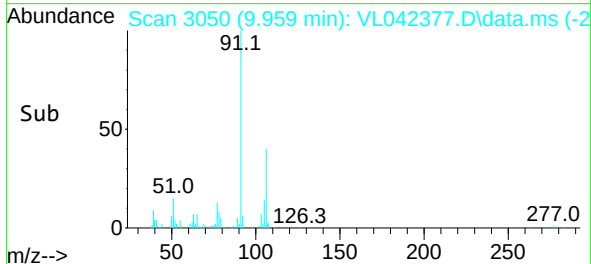
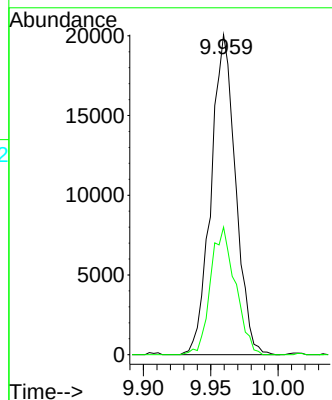
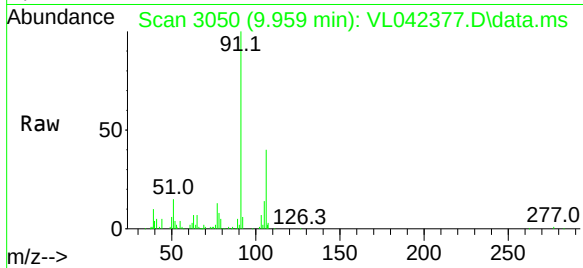
#60
o-Xylene
Concen: 0.668 ppbv
RT: 9.959 min Scan# 3051
Delta R.T. -0.003 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL

Tgt Ion: 91 Resp: 2551
Ion Ratio Lower Upper
91 100
106 40.1 21.1 63.4

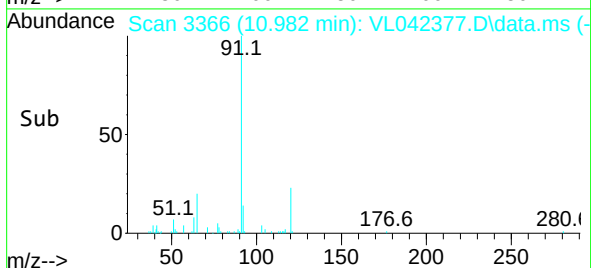
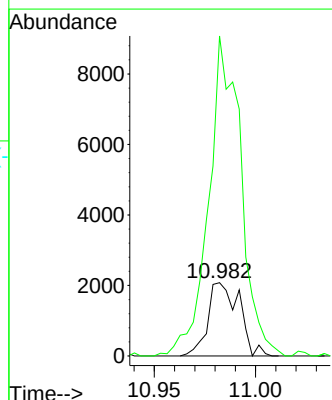
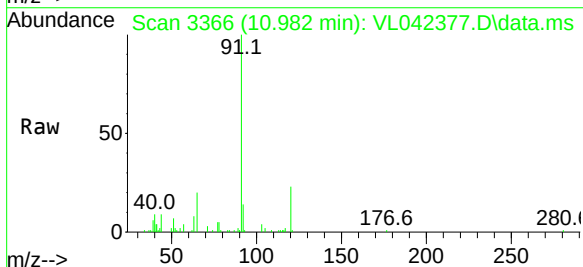
Manual Integrations
APPROVED

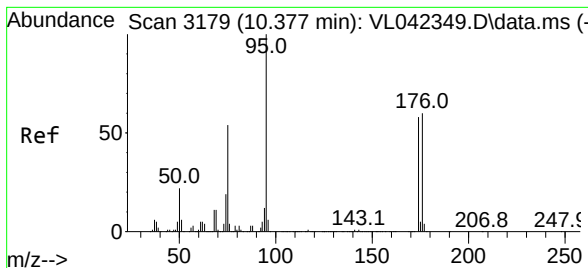
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#64
n-propylbenzene
Concen: 0.160 ppbv m
RT: 10.982 min Scan# 3366
Delta R.T. -0.006 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

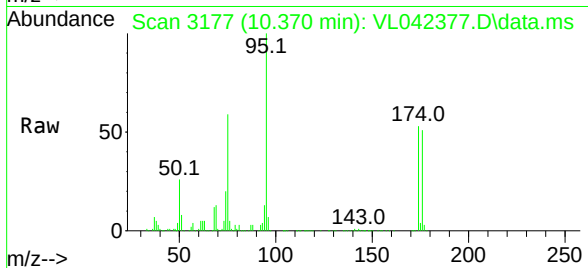
Tgt Ion:120 Resp: 2250
Ion Ratio Lower Upper
120 100
91 449.2 392.4 588.6





#68
1-Bromo-4-Fluorobenzene
Concen: 10.393 ppbv
RT: 10.370 min Scan# 3179
Delta R.T. -0.006 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

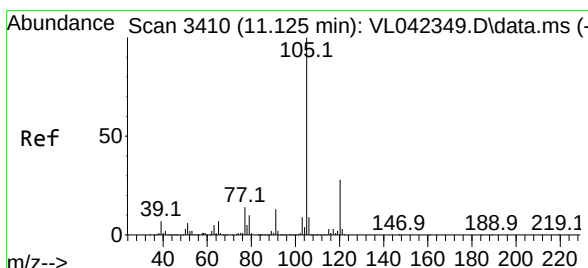
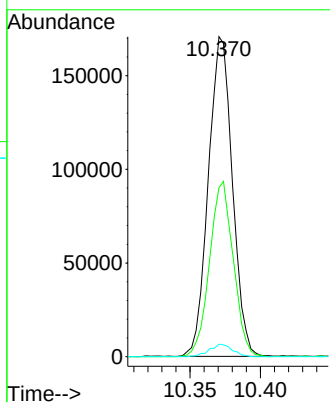
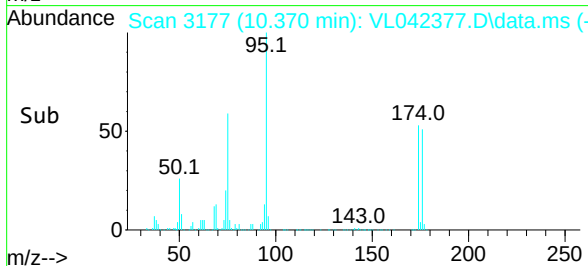
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL



Tgt Ion: 95 Resp: 202954
Ion Ratio Lower Upper
95 100
174 54.2 48.5 72.7
175 3.8 3.7 5.5

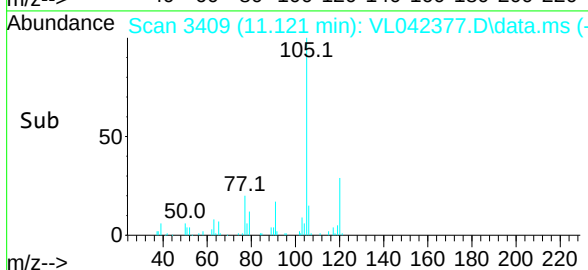
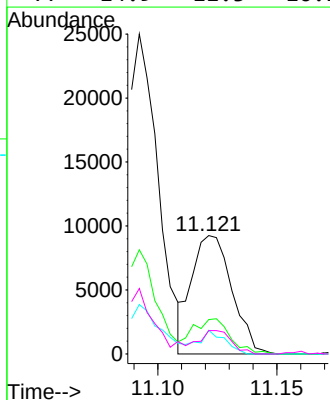
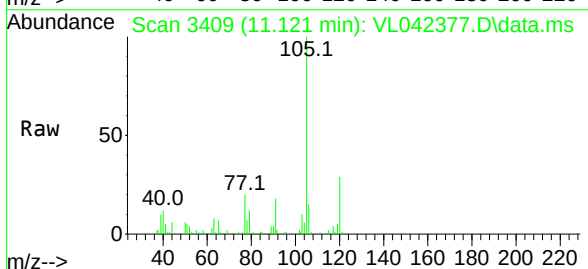
Manual Integrations
APPROVED

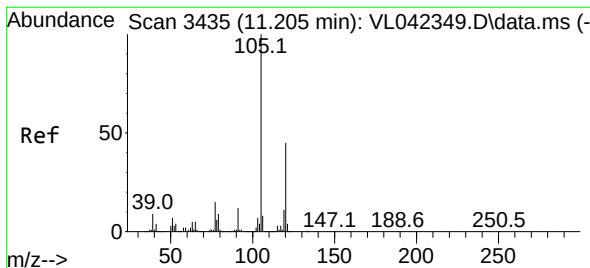
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#72
4-Ethyltoluene
Concen: 0.234 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.003 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

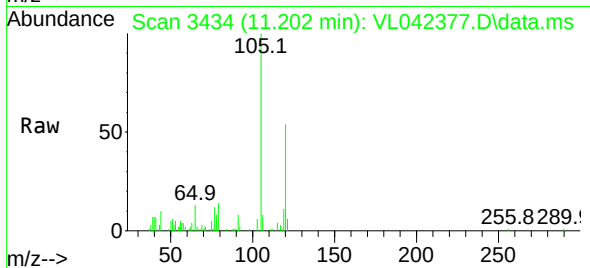
Tgt Ion:105 Resp: 10921
Ion Ratio Lower Upper
105 100
120 0.0 23.2 34.8#
91 0.0 10.4 15.6#
77 14.9 11.3 16.9





#73
1,3,5-Trimethylbenzene
Concen: 0.272 ppbv
RT: 11.202 min Scan# 3435
Delta R.T. -0.003 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

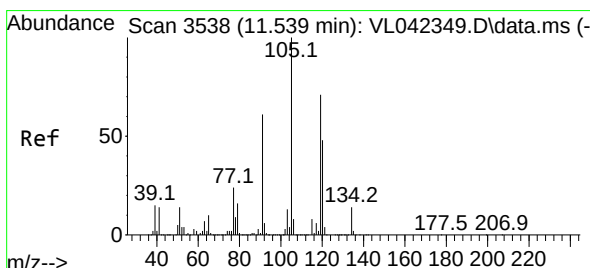
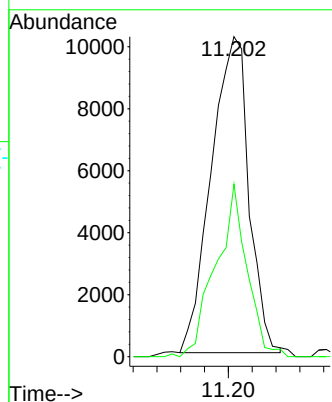
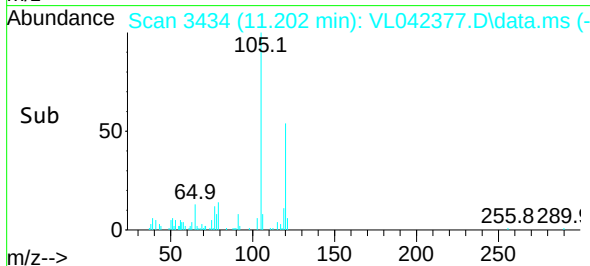
Instrument : MSVOA_L
ClientSampleId : IA-B2-6-03312025DL



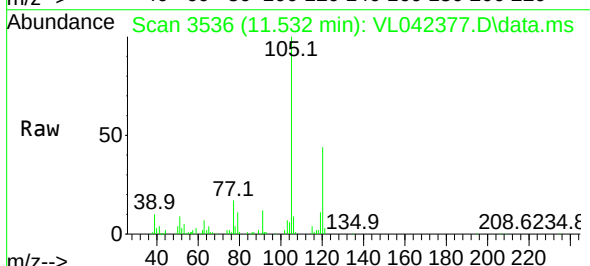
Tgt Ion:105 Resp: 11199
Ion Ratio Lower Upper
105 100
120 54.6 35.6 53.4#

Manual Integrations
APPROVED

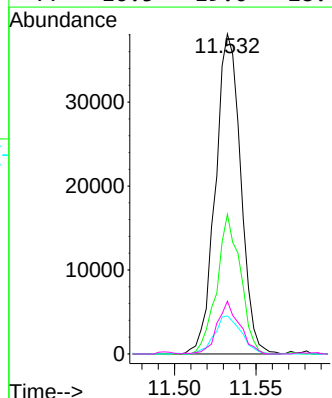
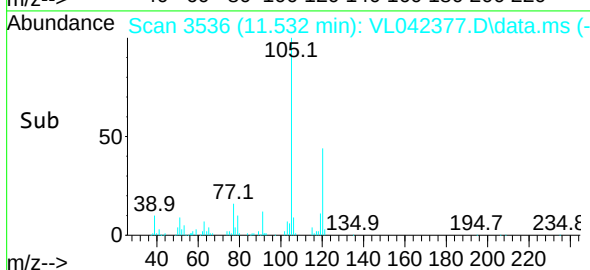
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#74
1,2,4-Trimethylbenzene
Concen: 0.853 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. -0.006 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01



Tgt Ion:105 Resp: 41057
Ion Ratio Lower Upper
105 100
120 43.6 38.1 57.1
91 11.9 48.8 73.2#
77 16.5 19.0 28.4#



Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-6-03312025DL2	SDG No.:	Q1726
Lab Sample ID:	Q1726-02DL2	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
VL042388.D	40		04/18/25 13:12	VL041825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	8.40	41.5	UD	41.5	98.9	ug/m3
64-17-5	Ethanol	210	396	DQ	24.1	37.7	ug/m3
74-87-3	Chloromethane	5.00	10.3	JD	8.05	41.3	ug/m3
75-01-4	Vinyl Chloride	0.56	1.43	UD	1.43	3.07	ug/m3
74-83-9	Bromomethane	5.60	21.7	UD	21.7	77.7	ug/m3
75-00-3	Chloroethane	6.80	17.9	UD	17.9	52.8	ug/m3
109-99-9	Tetrahydrofuran	5.20	15.3	UDQ	15.3	59.0	ug/m3
75-69-4	Trichlorofluoromethane	6.40	36.0	UD	36.0	112	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	6.40	49.0	UD	49.0	153	ug/m3
76-14-2	Dichlorotetrafluoroethane	3.50	24.5	UD	24.5	140	ug/m3
593-60-2	Bromoethene	4.80	21.0	UD	21.0	87.4	ug/m3
75-65-0	tert-Butyl alcohol	7.60	23.0	UD	23.0	60.6	ug/m3
142-82-5	Heptane	5.40	22.1	JDQ	18.0	82.0	ug/m3
67-63-0	Isopropyl Alcohol	24.5	60.2	D	6.88	49.2	ug/m3
75-35-4	1,1-Dichloroethene	5.60	22.2	UD	22.2	79.3	ug/m3
67-64-1	Acetone	240	570	D	22.8	47.5	ug/m3
75-15-0	Carbon Disulfide	6.40	19.9	UD	19.9	62.3	ug/m3
1634-04-4	Methyl tert-Butyl Ether	4.80	17.3	UD	17.3	72.1	ug/m3
75-09-2	Methylene Chloride	7.60	26.4	UD	26.4	69.5	ug/m3
156-60-5	trans-1,2-Dichloroethene	7.60	30.1	UD	30.1	79.3	ug/m3
75-34-3	1,1-Dichloroethane	5.20	21.1	UD	21.1	81.0	ug/m3
110-82-7	Cyclohexane	8.80	30.3	UD	30.3	68.8	ug/m3
78-93-3	2-Butanone	4.80	14.2	UD	14.2	59.0	ug/m3
56-23-5	Carbon Tetrachloride	0.44	2.77	UD	2.77	7.55	ug/m3
156-59-2	cis-1,2-Dichloroethene	3.60	14.3	UD	14.3	79.3	ug/m3
67-66-3	Chloroform	3.30	16.1	UD	16.1	97.7	ug/m3
71-55-6	1,1,1-Trichloroethane	0.38	2.07	UD	2.07	6.55	ug/m3
540-84-1	2,2,4-Trimethylpentane	9.20	43.0	JD	18.7	93.4	ug/m3
71-43-2	Benzene	3.50	11.2	UD	11.2	63.9	ug/m3
107-06-2	1,2-Dichloroethane	3.60	14.6	UD	14.6	81.0	ug/m3
79-01-6	Trichloroethene	0.68	3.65	UD	3.65	6.45	ug/m3
78-87-5	1,2-Dichloropropane	4.40	20.3	UD	20.3	92.4	ug/m3
75-27-4	Bromodichloromethane	3.10	20.8	UD	20.8	134	ug/m3
108-10-1	4-Methyl-2-Pentanone	3.70	15.2	UD	15.2	82.0	ug/m3
108-88-3	Toluene	27.4	103	D	16.6	75.4	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-6-03312025DL2	SDG No.:	Q1726
Lab Sample ID:	Q1726-02DL2	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
VL042388.D	40		04/18/25 13:12	VL041825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	2.40	10.9	UD	10.9	90.8	ug/m3
10061-01-5	cis-1,3-Dichloropropene	2.60	11.8	UD	11.8	90.8	ug/m3
79-00-5	1,1,2-Trichloroethane	2.80	15.3	UD	15.3	109	ug/m3
124-48-1	Dibromochloromethane	2.60	22.1	UD	22.1	170	ug/m3
106-93-4	1,2-Dibromoethane	2.90	22.3	UD	22.3	30.7	ug/m3
127-18-4	Tetrachloroethene	0.60	4.07	UD	4.07	8.14	ug/m3
108-90-7	Chlorobenzene	3.00	13.8	UD	13.8	92.1	ug/m3
100-41-4	Ethyl Benzene	5.40	23.5	JD	20.9	86.9	ug/m3
179601-23-1	m/p-Xylene	19.8	86.0	JD	36.5	174	ug/m3
95-47-6	o-Xylene	7.40	32.1	JD	20.9	86.9	ug/m3
100-42-5	Styrene	4.40	18.7	UD	18.7	85.2	ug/m3
75-25-2	Bromoform	2.30	23.8	UD	23.8	207	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.44	3.02	UD	3.02	8.24	ug/m3
95-49-8	2-Chlorotoluene	4.40	22.8	UD	22.8	104	ug/m3
108-67-8	1,3,5-Trimethylbenzene	4.40	21.6	UD	21.6	98.3	ug/m3
95-63-6	1,2,4-Trimethylbenzene	9.70	47.7	JD	15.2	98.3	ug/m3
541-73-1	1,3-Dichlorobenzene	3.20	19.2	UD	19.2	120	ug/m3
106-46-7	1,4-Dichlorobenzene	2.10	12.6	UD	12.6	120	ug/m3
95-50-1	1,2-Dichlorobenzene	3.00	18.0	UD	18.0	120	ug/m3
120-82-1	1,2,4-Trichlorobenzene	3.40	25.2	UD	25.2	148	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	3.40	36.3	UD	36.3	213	ug/m3
106-99-0	1,3-Butadiene	5.20	11.5	UD	11.5	44.3	ug/m3
91-20-3	Naphthalene	3.00	15.7	UD	15.7	21.0	ug/m3
622-96-8	4-Ethyltoluene	4.80	23.6	UD	23.6	98.3	ug/m3
110-54-3	Hexane	4.40	15.5	UD	15.5	70.5	ug/m3
107-05-1	Allyl Chloride	6.00	18.8	UD	18.8	62.6	ug/m3
123-91-1	1,4-Dioxane	8.40	30.3	UD	30.3	72.1	ug/m3
80-62-6	Methyl Methacrylate	3.40	13.9	UDQ	13.9	81.9	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	133000	2.784
540-36-3	1,4-Difluorobenzene	409000	3.952
3114-55-4	Chlorobenzene-d5	355000	8.875

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-6-03312025DL2	SDG No.:	Q1726
Lab Sample ID:	Q1726-02DL2	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
VL042388.D	40		04/18/25 13:12	VL041825

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\VL041825\
 Data File : VL042388.D
 Acq On : 18 Apr 2025 13:12
 Operator : SY/MD
 Sample : Q1726-02DL2 40X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-6-03312025DL2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2025
 Supervised By :Mahesh Dadoda 04/21/2025

Quant Time: Apr 18 22:58:20 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	2.784	49	132986	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	409322	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	354583	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	288297	9.894	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.900%
Target Compounds						
					Qvalue	
4) Chloromethane	1.531	50	1157	0.124	ppbv #	76
9) Propene	1.489	41	1101	0.108	ppbv #	80
10) Heptane	4.968	43	3875m	0.135	ppbv	
13) Ethanol	1.719	45	8476	5.234	ppbv	85
15) Acetone	1.832	43	132763	6.098	ppbv	98
19) Isopropyl Alcohol	1.884	45	7402	0.612	ppbv #	1
44) 2,2,4-Trimethylpentane	4.638	57	17626m	0.231	ppbv	
53) Toluene	6.930	91	36363	0.686	ppbv	100
58) Ethyl Benzene	9.348	91	9406m	0.134	ppbv	
59) m/p-Xylene	9.526	91	27952	0.494	ppbv	96
60) o-Xylene	9.956	91	10620m	0.186	ppbv	
74) 1,2,4-Trimethylbenzene	11.532	105	17448	0.243	ppbv #	63

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

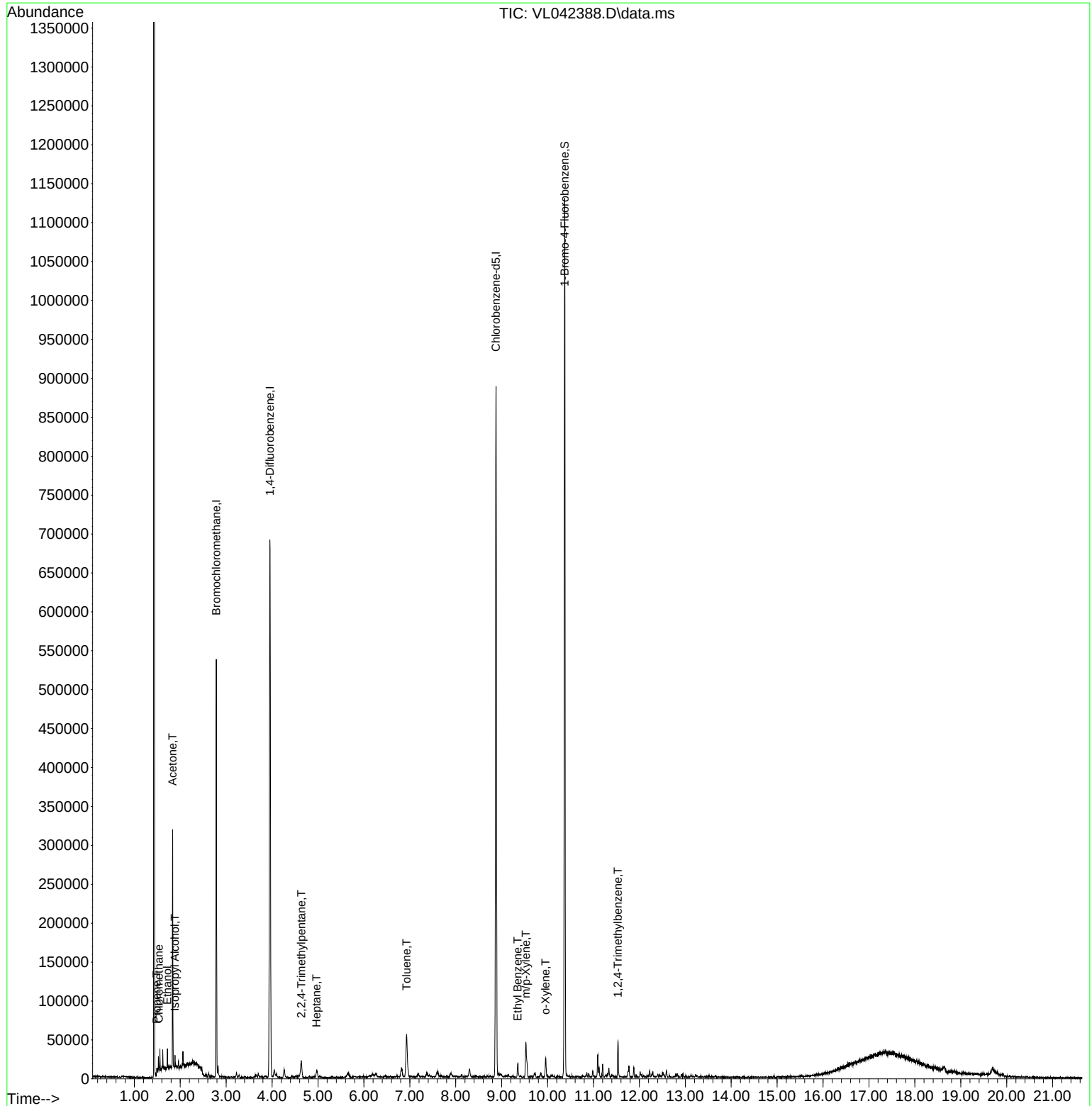
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
Data File : VL042388.D
Acq On : 18 Apr 2025 13:12
Operator : SY/MD
Sample : Q1726-02DL2 40X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

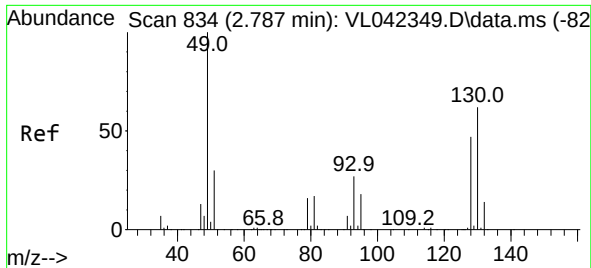
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

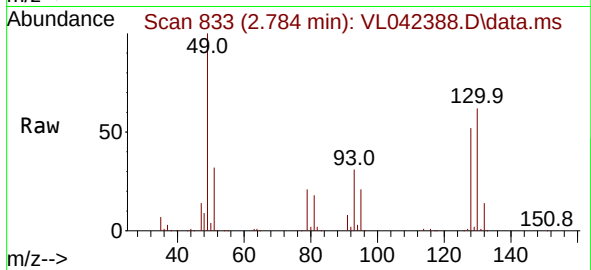
Quant Time: Apr 18 22:58:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 834
Delta R.T. -0.003 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

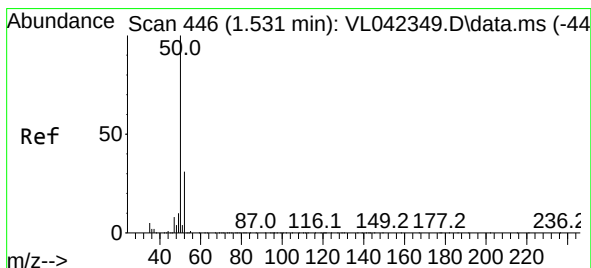
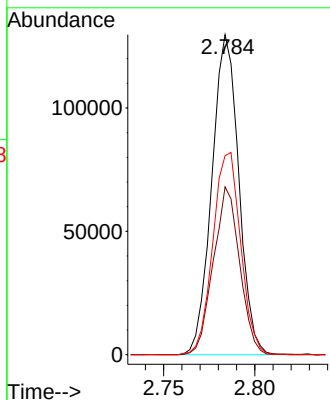
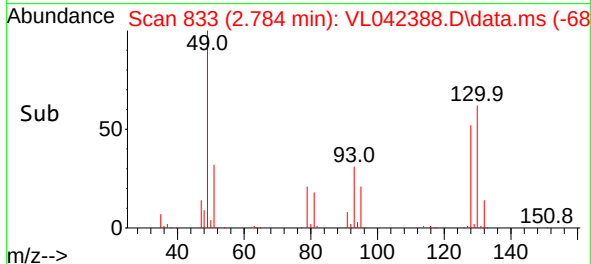
Instrument : MSVOA_L
ClientSampleId : IA-B2-6-03312025DL2



Tgt Ion: 49 Resp: 132980
Ion Ratio Lower Upper
49 100
128 51.2 22.8 68.4
130 65.3 29.3 88.0

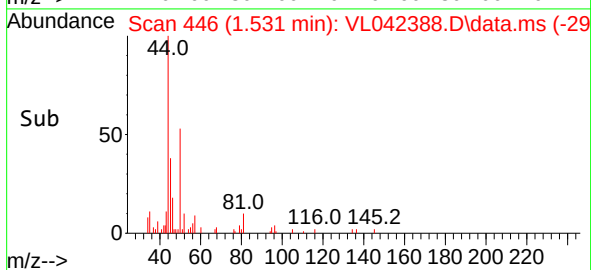
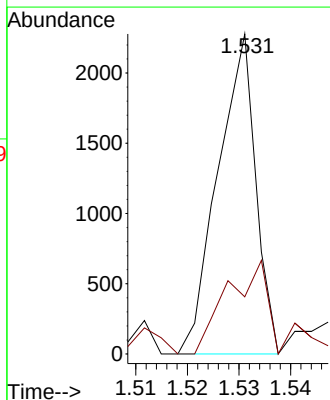
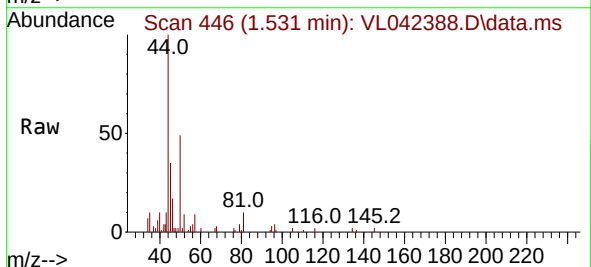
Manual Integrations
APPROVED

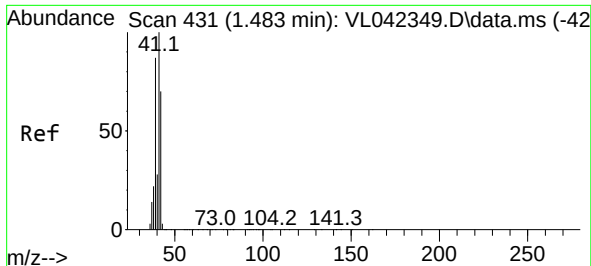
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025



#4
Chloromethane
Concen: 0.124 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

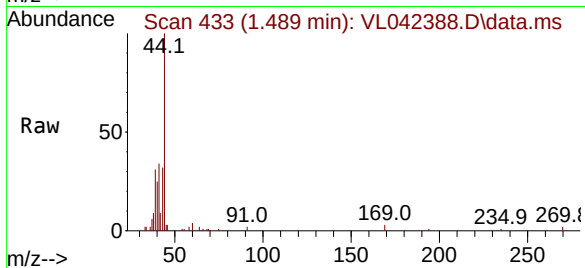
Tgt Ion: 50 Resp: 1157
Ion Ratio Lower Upper
50 100
52 17.9 24.7 37.1#





#9
 Propene
 Concen: 0.108 ppbv
 RT: 1.489 min Scan# 41
 Delta R.T. 0.006 min
 Lab File: VL042388.D
 Acq: 18 Apr 2025 13:12

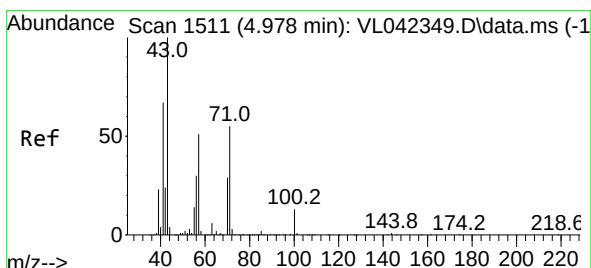
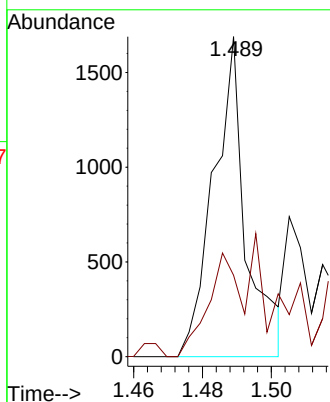
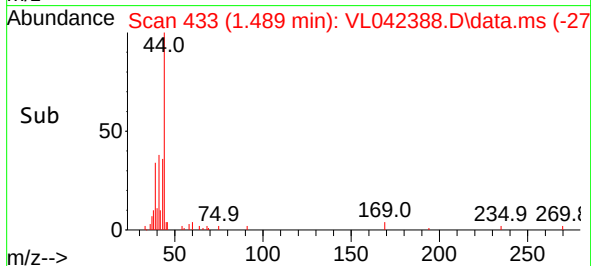
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-6-03312025DL2



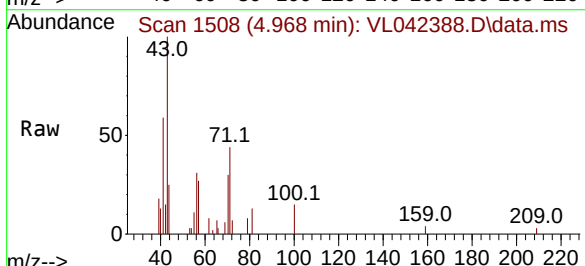
Tgt Ion: 41 Resp: 110
 Ion Ratio Lower Upper
 41 100
 42 86.9 56.2 84.4

Manual Integrations
 APPROVED

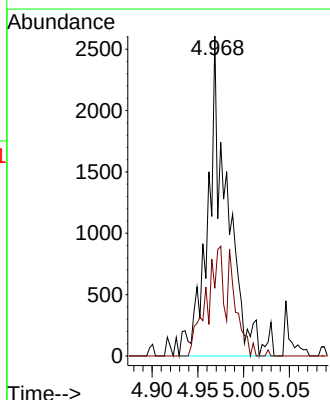
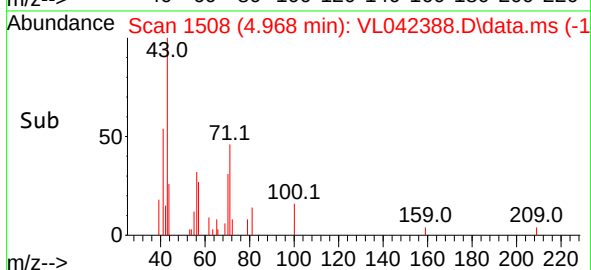
Reviewed By :Semsettin Yesilyurt 04/21/2025
 Supervised By :Mahesh Dadoda 04/21/2025

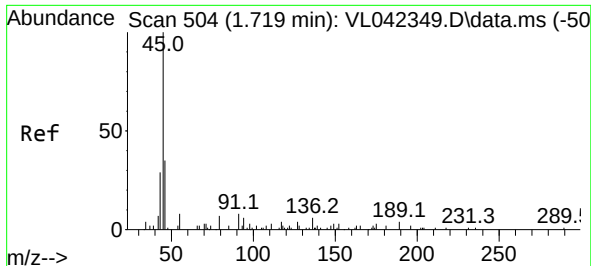


#10
 Heptane
 Concen: 0.135 ppbv m
 RT: 4.968 min Scan# 1508
 Delta R.T. -0.010 min
 Lab File: VL042388.D
 Acq: 18 Apr 2025 13:12



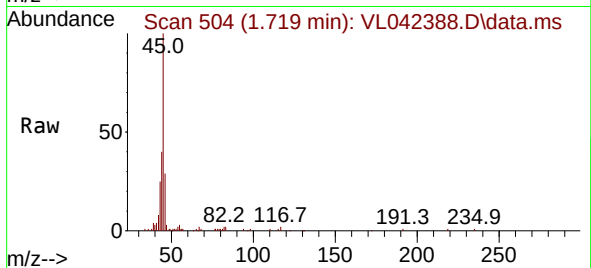
Tgt Ion: 43 Resp: 3875
 Ion Ratio Lower Upper
 43 100
 57 43.3 39.9 59.9





#13
Ethanol
Concen: 5.234 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

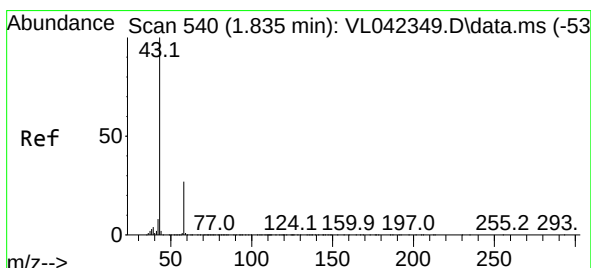
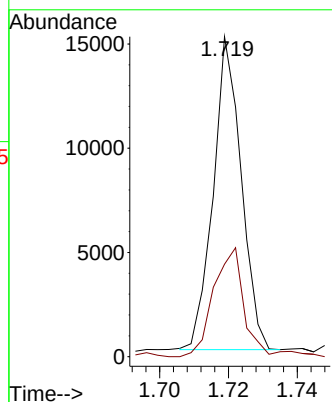
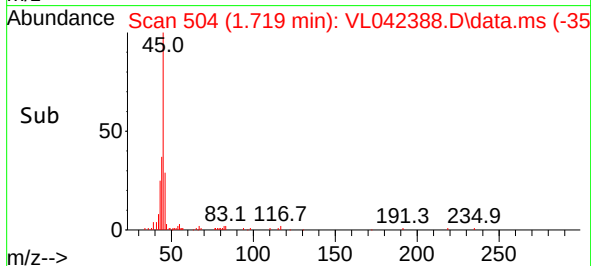
Instrument : MSVOA_L
ClientSampleId : IA-B2-6-03312025DL2



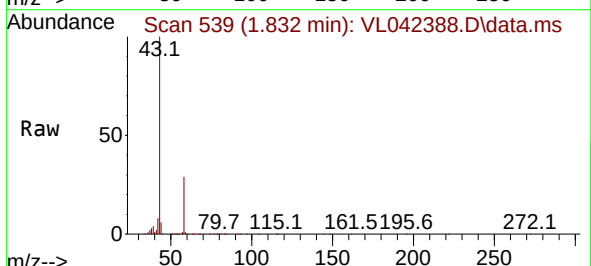
Tgt Ion: 45 Resp: 8470
Ion Ratio Lower Upper
45 100
46 44.0 21.9 87.7

Manual Integrations
APPROVED

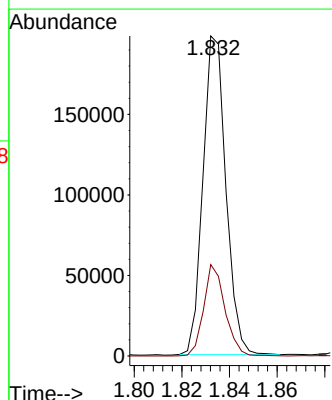
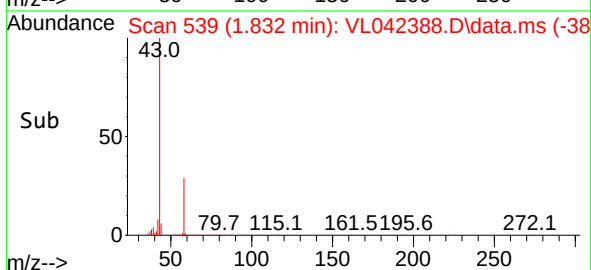
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

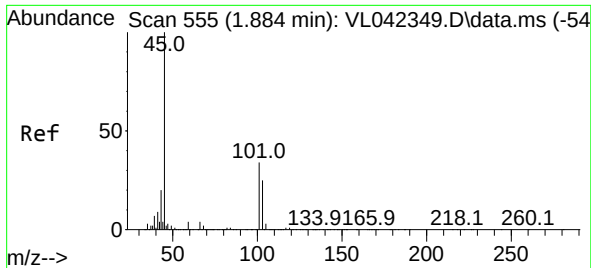


#15
Acetone
Concen: 6.098 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.003 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12



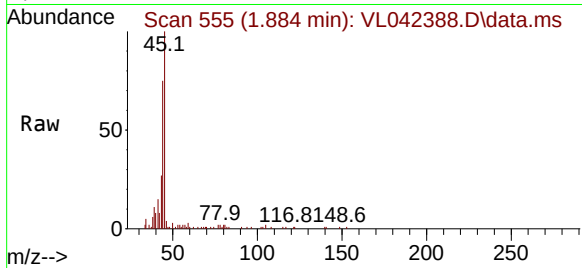
Tgt Ion: 43 Resp: 132763
Ion Ratio Lower Upper
43 100
58 26.9 22.4 33.6





#19
Isopropyl Alcohol
Concen: 0.612 ppbv
RT: 1.884 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

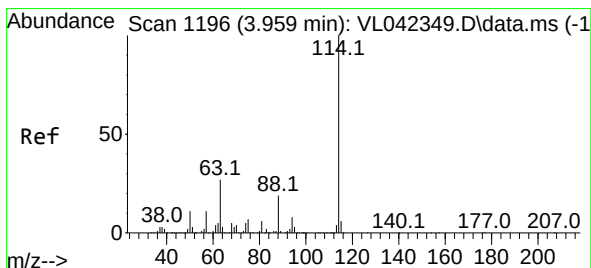
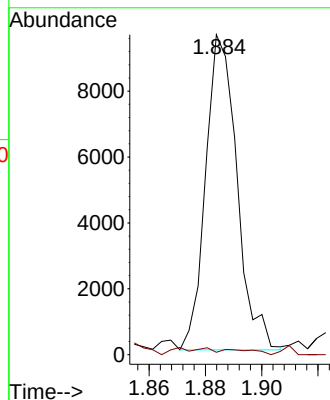
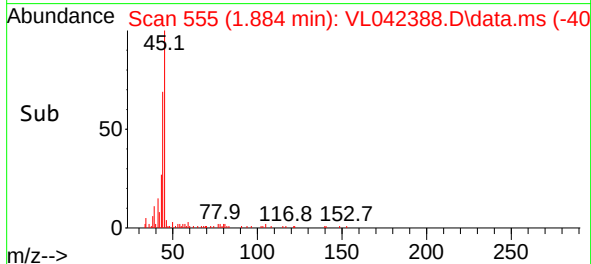
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL2



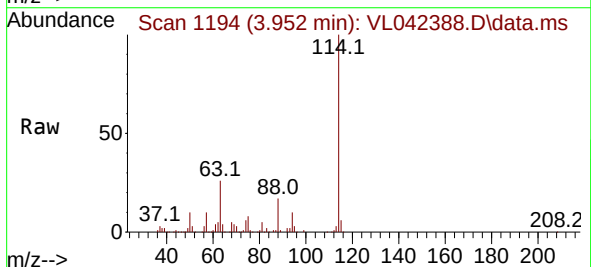
Tgt Ion: 45 Resp: 740
Ion Ratio Lower Upper
45 100
58 482.1 34.5 51.7

Manual Integrations
APPROVED

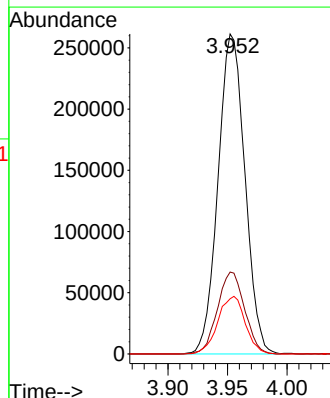
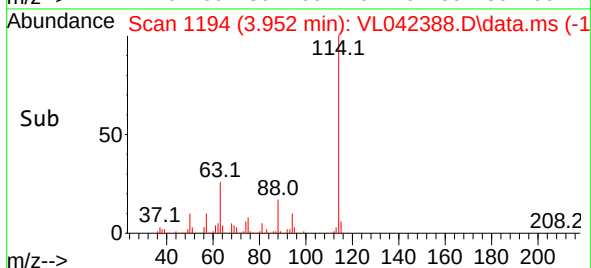
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

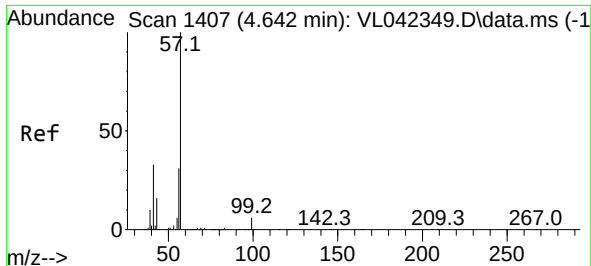


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. -0.006 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12



Tgt Ion:114 Resp: 409322
Ion Ratio Lower Upper
114 100
63 25.9 21.8 32.6
88 18.4 15.5 23.3





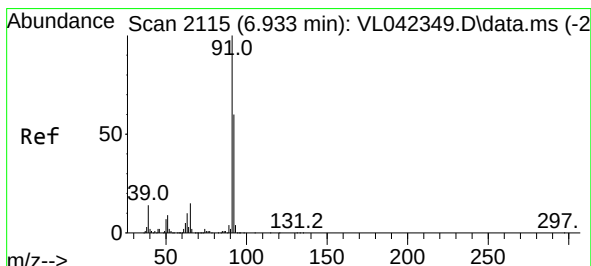
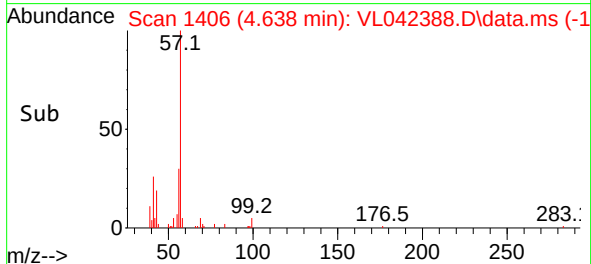
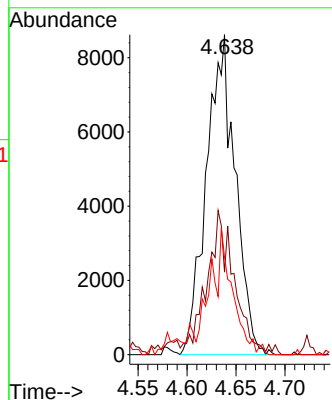
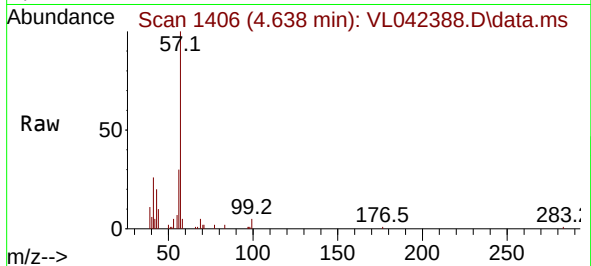
#44
2,2,4-Trimethylpentane
Concen: 0.231 ppbv m
RT: 4.638 min Scan# 1407
Delta R.T. -0.003 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL2

Tgt Ion: 57 Resp: 17620
Ion Ratio Lower Upper
57 100
41 45.9 27.2 40.8
56 32.0 25.7 38.5

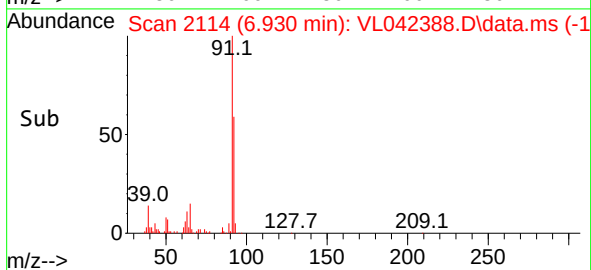
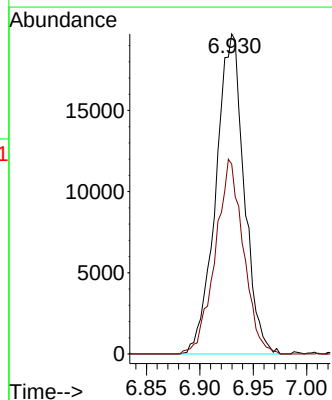
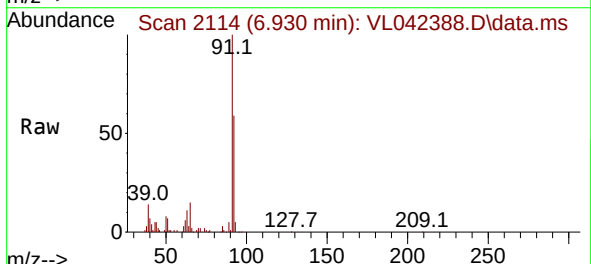
Manual Integrations
APPROVED

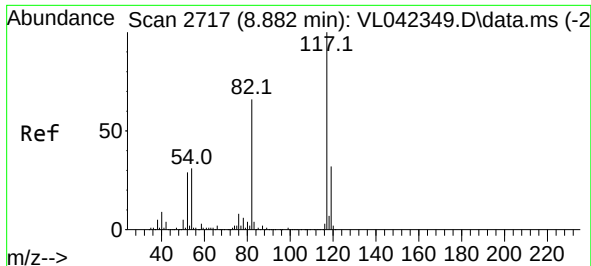
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025



#53
Toluene
Concen: 0.686 ppbv
RT: 6.930 min Scan# 2114
Delta R.T. -0.003 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

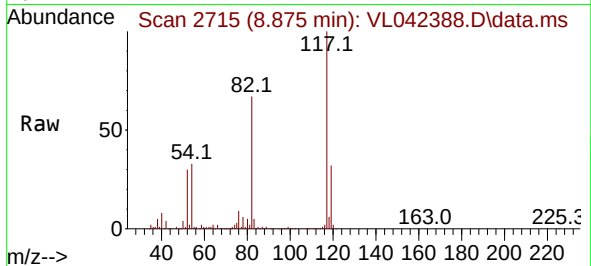
Tgt Ion: 91 Resp: 36363
Ion Ratio Lower Upper
91 100
92 60.4 48.2 72.4





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 21
Delta R.T. -0.007 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

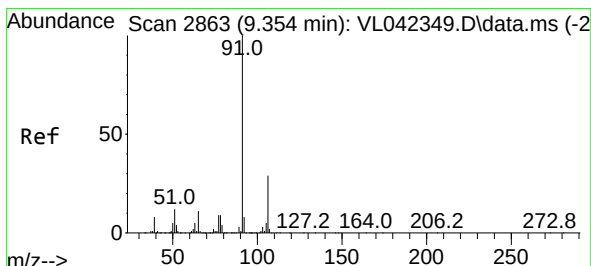
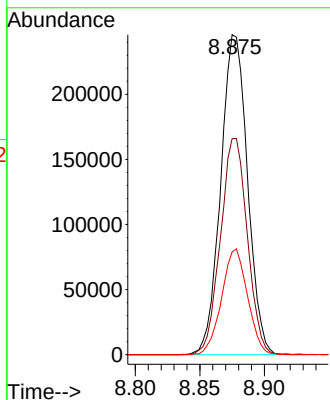
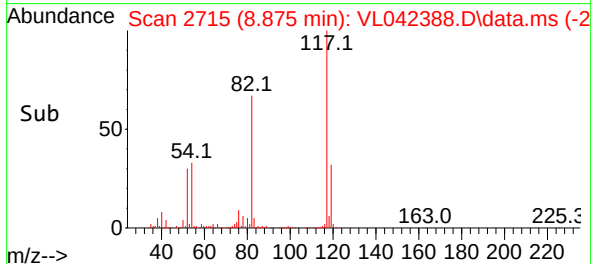
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL2



Tgt Ion: 117 Resp: 35458
Ion Ratio Lower Upper
117 100
82 67.7 57.8 86.6
119 32.1 25.2 37.8

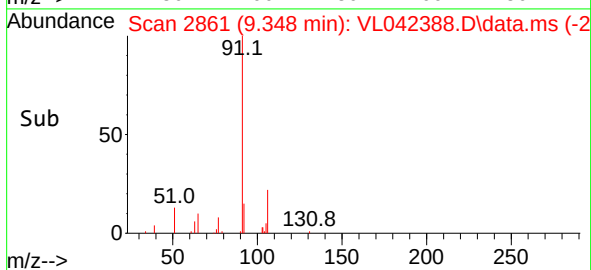
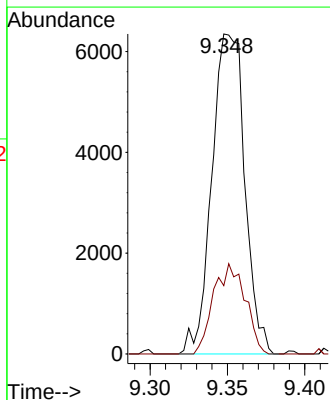
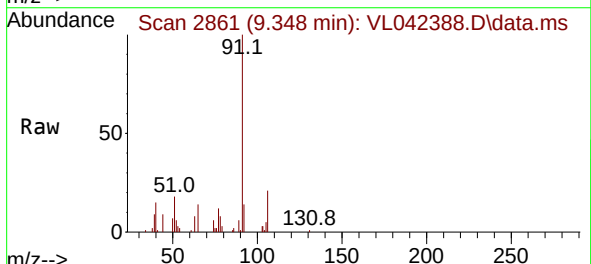
Manual Integrations
APPROVED

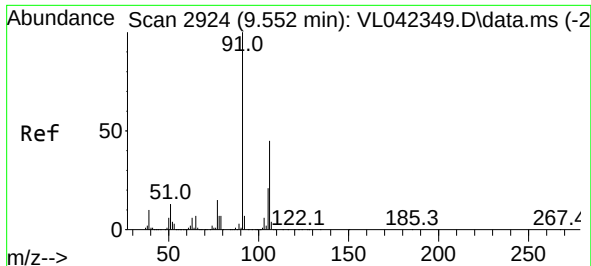
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025



#58
Ethyl Benzene
Concen: 0.134 ppbv m
RT: 9.348 min Scan# 2861
Delta R.T. -0.007 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

Tgt Ion: 91 Resp: 9406
Ion Ratio Lower Upper
91 100
106 21.3 23.0 34.4#





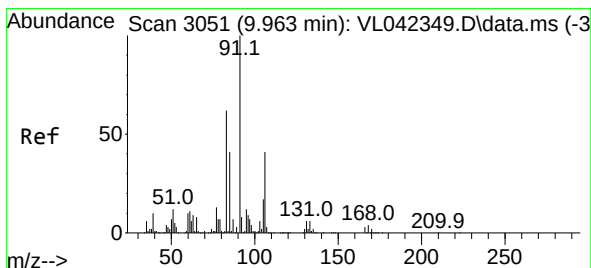
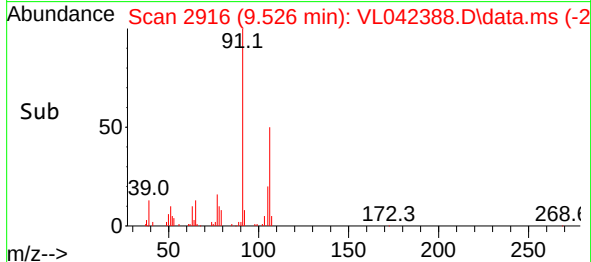
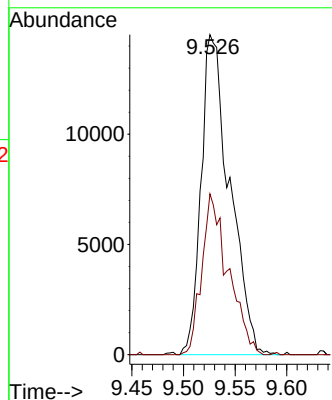
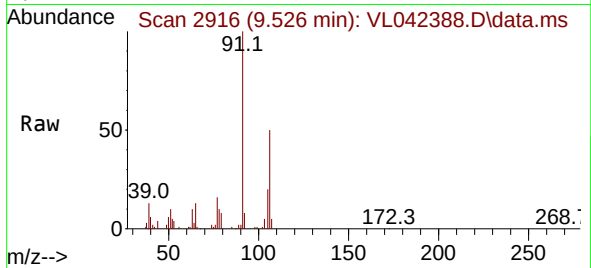
#59
m/p-Xylene
Concen: 0.494 ppbv
RT: 9.526 min Scan# 2916
Delta R.T. -0.026 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL2

Tgt Ion: 91 Resp: 27952
Ion Ratio Lower Upper
91 100
106 46.6 35.4 53.2

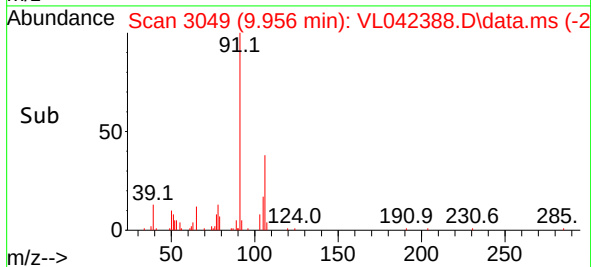
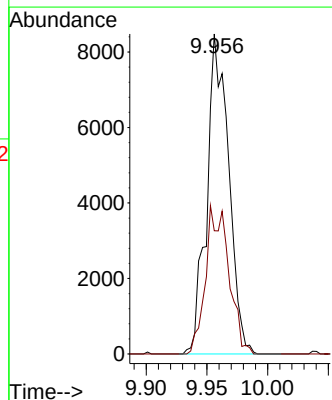
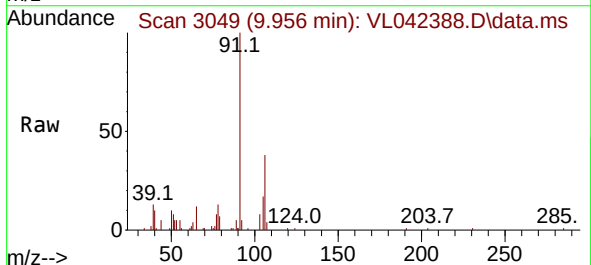
Manual Integrations
APPROVED

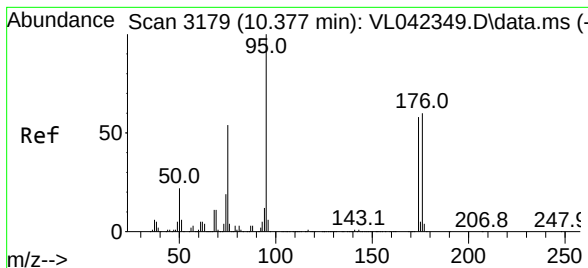
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025



#60
o-Xylene
Concen: 0.186 ppbv m
RT: 9.956 min Scan# 3049
Delta R.T. -0.006 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

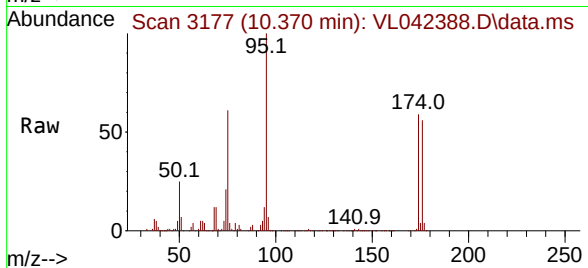
Tgt Ion: 91 Resp: 10620
Ion Ratio Lower Upper
91 100
106 48.9 21.1 63.4





#68
1-Bromo-4-Fluorobenzene
Concen: 9.894 ppbv
RT: 10.370 min Scan# 3179
Delta R.T. -0.006 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

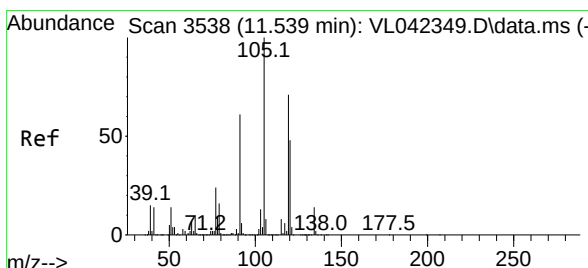
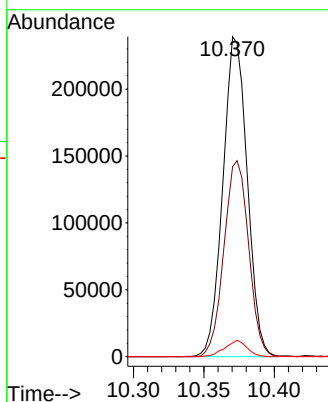
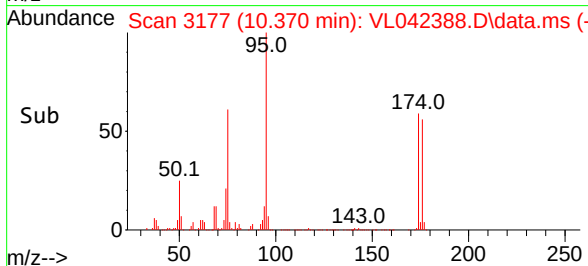
Instrument : MSVOA_L
ClientSampleId : IA-B2-6-03312025DL2



Tgt Ion: 95 Resp: 28829
Ion Ratio Lower Upper
95 100
174 62.2 48.5 72.7
175 4.7 3.7 5.5

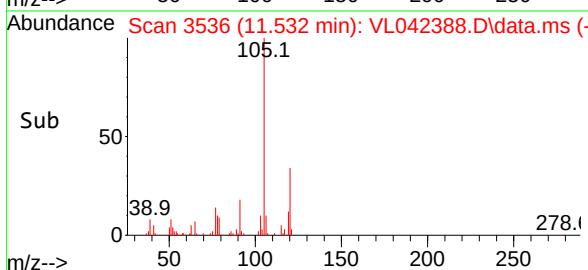
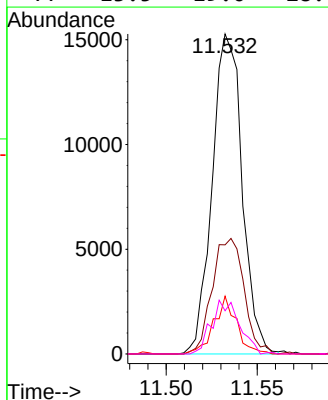
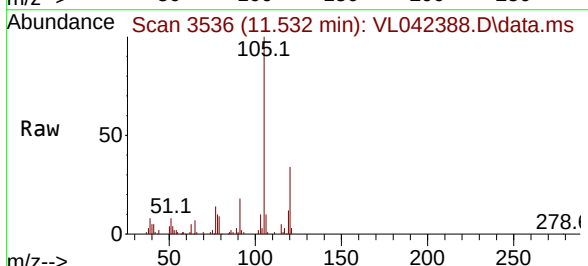
Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025



#74
1,2,4-Trimethylbenzene
Concen: 0.243 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. -0.007 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

Tgt Ion:105 Resp: 17448
Ion Ratio Lower Upper
105 100
120 34.1 38.1 57.1#
91 18.1 48.8 73.2#
77 13.5 19.0 28.4#



Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-2-03312025	SDG No.:	Q1726
Lab Sample ID:	Q1726-03	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
VL042368.D	1		04/17/25 21:12	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.47	2.32	J	1.04	2.47	ug/m3
64-17-5	Ethanol	230	433	EQ	0.60	0.94	ug/m3
74-87-3	Chloromethane	1.40	2.89		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	0.27	0.80	J	0.38	1.47	ug/m3
75-69-4	Trichlorofluoromethane	0.25	1.40	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
593-60-2	Bromoethene	0.12	0.52	U	0.52	2.19	ug/m3
75-65-0	tert-Butyl alcohol	0.74	2.24		0.58	1.52	ug/m3
142-82-5	Heptane	3.00	12.3		0.45	2.05	ug/m3
67-63-0	Isopropyl Alcohol	43.7	107	E	0.17	1.23	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
67-64-1	Acetone	180	428	E	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	5.40	18.8		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	0.97	3.34		0.76	1.72	ug/m3
78-93-3	2-Butanone	1.50	4.42		0.35	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.090	0.57		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	0.13	0.63	J	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	8.40	39.2		0.47	2.34	ug/m3
71-43-2	Benzene	0.90	2.88		0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.16	0.65	J	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	18.7	70.5	E	0.41	1.88	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-2-03312025	SDG No.:	Q1726
Lab Sample ID:	Q1726-03	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
VL042368.D	1		04/17/25 21:12	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
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
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	0.26	1.76		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	3.60	15.6		0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	12.6	54.7		0.91	4.34	ug/m3
95-47-6	o-Xylene	5.00	21.7		0.52	2.17	ug/m3
100-42-5	Styrene	0.40	1.70	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	0.52	2.69		0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	2.10	10.3		0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	5.80	28.5		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	0.10	0.60	J	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	0.42	2.20		0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	1.80	8.85		0.59	2.46	ug/m3
110-54-3	Hexane	4.30	15.2		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	119000	2.787
540-36-3	1,4-Difluorobenzene	333000	3.962
3114-55-4	Chlorobenzene-d5	297000	8.882

TENTATIVE IDENTIFIED COMPOUNDS

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-2-03312025	SDG No.:	Q1726
Lab Sample ID:	Q1726-03	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
VL042368.D	1		04/17/25 21:12	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
75-45-6	Chlorodifluoromethane	0.27		J		1.47	ppbv
115-07-1	Propene	3.10		J		1.49	ppbv
000106-97-8	Butane	8.70		J		1.62	ppbv
	unknown2.276	3.90		J		2.28	ppbv
000107-83-5	Pentane, 2-methyl-	3.00		J		2.47	ppbv
000591-76-4	Hexane, 2-methyl-	3.90		J		4.05	ppbv
000589-34-4	Hexane, 3-methyl-	4.70		J		4.27	ppbv
000108-87-2	Cyclohexane, methyl-	3.70		J		5.67	ppbv
000565-75-3	Pentane, 2,3,4-trimethyl-	5.60		J		6.83	ppbv
000111-65-9	Octane	4.20		J		8.30	ppbv
98-82-8	Isopropylbenzene	0.34		J		10.5	ppbv
103-65-1	n-propylbenzene	1.00		J		11.0	ppbv
000111-13-7	2-Octanone	65.3		J		11.4	ppbv
99-87-6	p-Isopropyltoluene	0.18		J		11.9	ppbv
104-51-8	n-Butylbenzene	0.39		J		12.3	ppbv
91-57-6	Naphthalene,2-methyl-	0.17		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 : VL042368.D
 Acq On : 17 Apr 2025 21:12
 Operator : SY/MD
 Sample : Q1726-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-2-03312025

Manual Integrations
 APPROVED

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

Quant Time: Apr 18 02:43:48 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	119191	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	333003	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	297493	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	243044	9.942	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.400%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	9795	0.465	ppbv	96
3) Chlorodifluoromethane	1.473	51	5382m	0.268	ppbv	
4) Chloromethane	1.531	50	11453	1.374	ppbv	96
9) Propene	1.489	41	28395m	3.109	ppbv	
10) Heptane	4.982	43	76723	2.990	ppbv	97
11) Trichlorofluoromethane	1.878	101	4992	0.249	ppbv	88
13) Ethanol	1.722	45	334088	230.163	ppbv	75
15) Acetone	1.836	43	3440620	176.335	ppbv #	36
17) tert-Butyl alcohol	2.046	59	17897m	0.740	ppbv	
19) Isopropyl Alcohol	1.887	45	473769	43.709	ppbv #	33
20) Methylene Chloride	2.062	84	40932	5.357	ppbv	94
26) Hexane	2.826	57	82957	4.261	ppbv #	35
29) Chloroform	2.852	83	3693m	0.134	ppbv	
30) Cyclohexane	3.855	84	15212	0.967	ppbv #	91
34) 2-Butanone	2.561	43	40042	1.520	ppbv	99
35) Carbon Tetrachloride	3.768	117	2692m	0.089	ppbv	
36) Benzene	3.658	78	32372	0.901	ppbv	98
37) 1,2-Dichloroethane	3.221	62	3461	0.161	ppbv #	96
41) Tetrahydrofuran	3.066	42	4138	0.269	ppbv #	79
44) 2,2,4-Trimethylpentane	4.642	57	521960	8.414	ppbv	96
52) Tetrachloroethene	8.225	164	3563m	0.257	ppbv	
53) Toluene	6.933	91	806485	18.711	ppbv	99
58) Ethyl Benzene	9.358	91	214751	3.643	ppbv	99
59) m/p-Xylene	9.532	91	599749	12.631	ppbv	100
60) o-Xylene	9.966	91	238681	4.992	ppbv	99
61) Styrene	9.875	104	9022	0.395	ppbv	95
62) Isopropylbenzene	10.539	105	23690	0.337	ppbv	96
64) n-propylbenzene	10.989	120	18420	1.044	ppbv	85
69) p-Isopropyltoluene	11.928	119	14319	0.184	ppbv	96
70) n-Butylbenzene	12.280	91	31785m	0.391	ppbv	
71) 2-Chlorotoluene	10.905	91	28490	0.517	ppbv	99
72) 4-Ethyltoluene	11.128	105	107491	1.839	ppbv #	56
73) 1,3,5-Trimethylbenzene	11.206	105	109907	2.130	ppbv	95
74) 1,2,4-Trimethylbenzene	11.539	105	349266	5.794	ppbv #	64
76) 1,4-Dichlorobenzene	11.672	146	3251	0.103	ppbv	93
79) Naphthalene	13.517	128	30244	0.420	ppbv	99
80) Naphthalene,2-methyl-	14.462	142	6832m	0.166	ppbv	

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

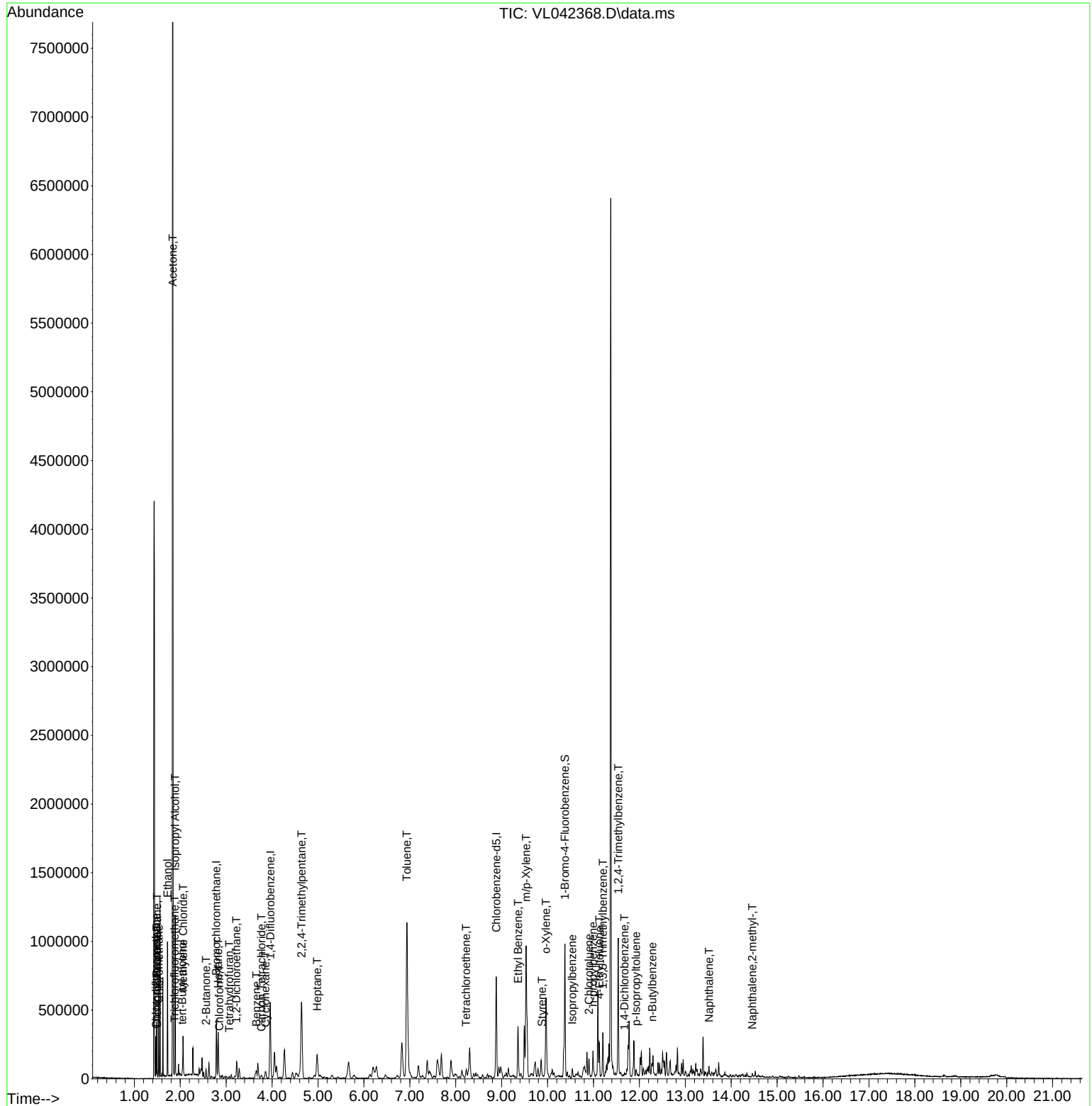
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042368.D
Acq On : 17 Apr 2025 21:12
Operator : SY/MD
Sample : Q1726-03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

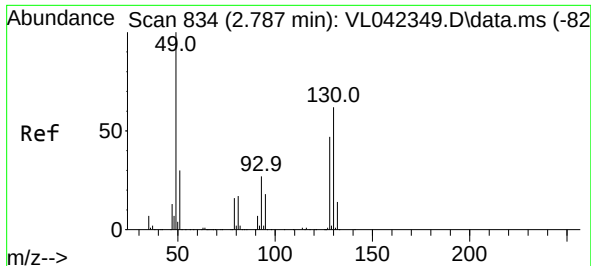
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

Manual Integrations
APPROVED

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

Quant Time: Apr 18 02:43:48 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





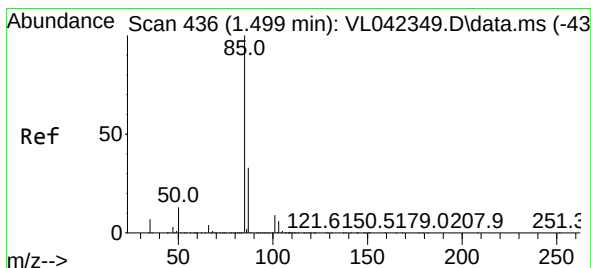
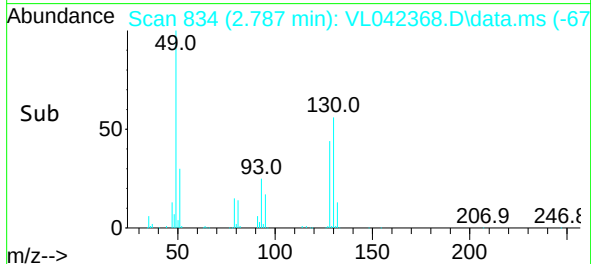
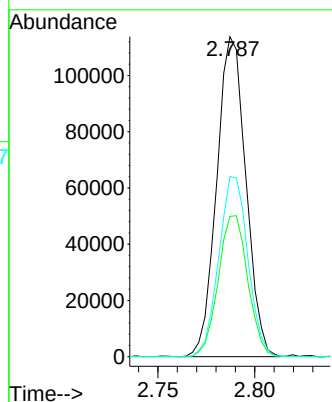
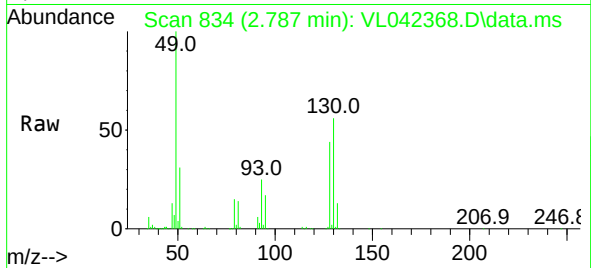
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 834
Delta R.T. 0.000 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

Tgt Ion: 49 Resp: 11919
Ion Ratio Lower Upper
49 100
128 44.4 22.8 68.4
130 56.2 29.3 88.0

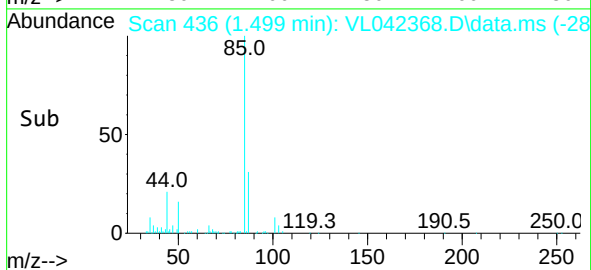
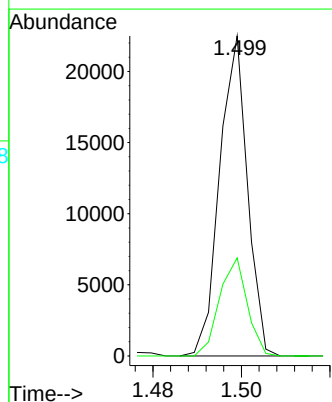
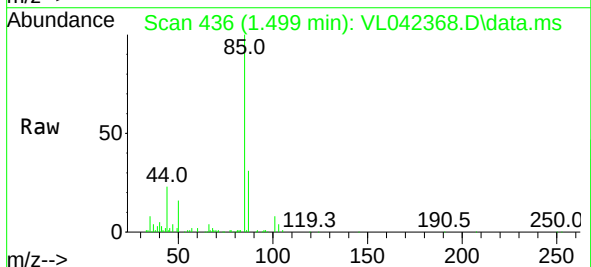
Manual Integrations
APPROVED

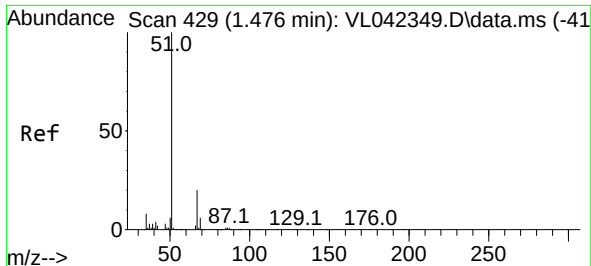
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#2
Dichlorodifluoromethane
Concen: 0.465 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

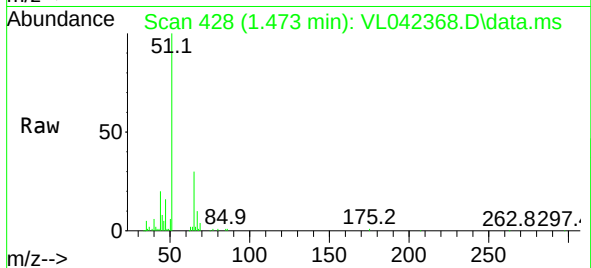
Tgt Ion: 85 Resp: 9795
Ion Ratio Lower Upper
85 100
87 30.7 26.6 39.8





#3
Chlorodifluoromethane
Concen: 0.268 ppbv m
RT: 1.473 min Scan# 429
Delta R.T. -0.003 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

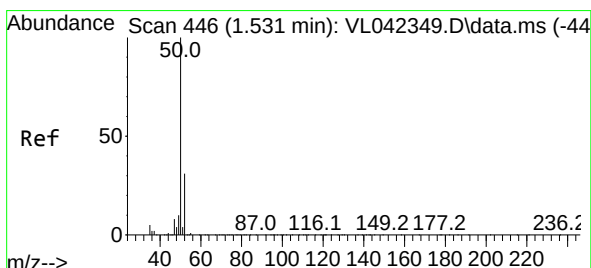
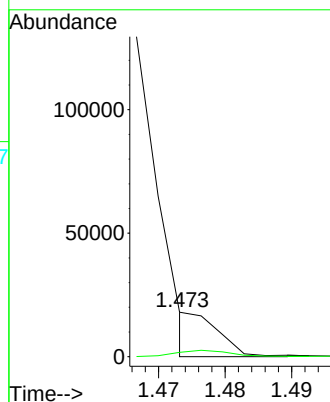
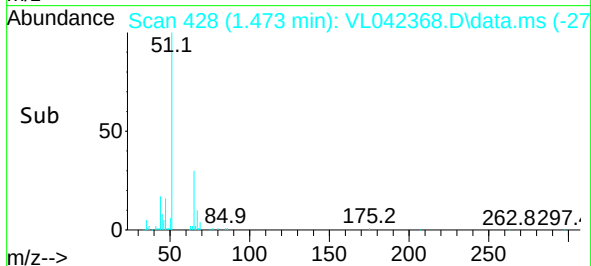
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025



Tgt Ion: 51 Resp: 5382
Ion Ratio Lower Upper
51 100
67 34.1 16.2 24.4

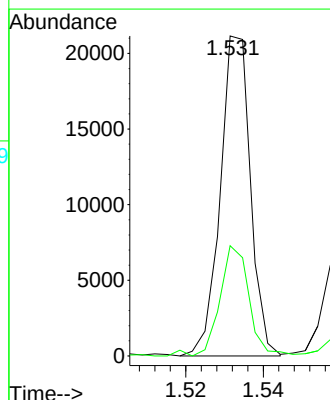
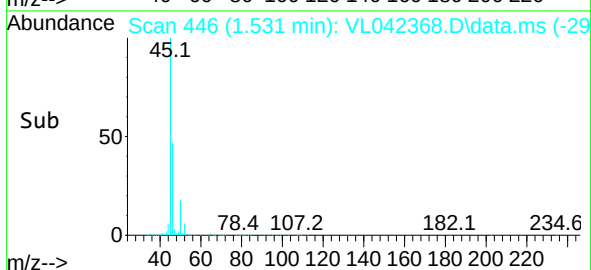
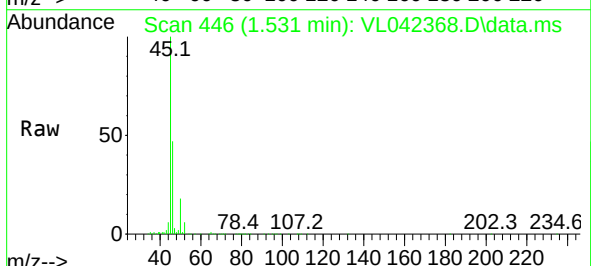
Manual Integrations
APPROVED

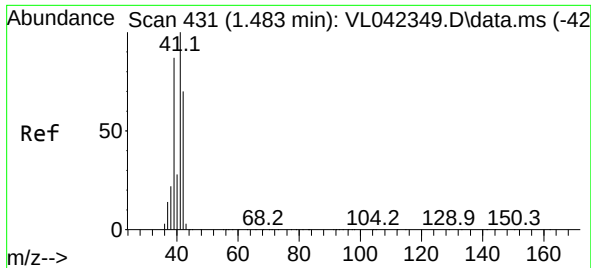
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#4
Chloromethane
Concen: 1.374 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

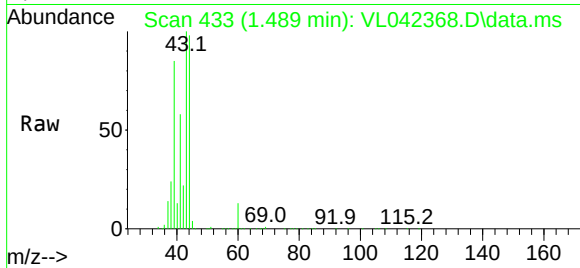
Tgt Ion: 50 Resp: 11453
Ion Ratio Lower Upper
50 100
52 33.2 24.7 37.1





#9
 Propene
 Concen: 3.109 ppbv m
 RT: 1.489 min Scan# 41
 Delta R.T. 0.007 min
 Lab File: VL042368.D
 Acq: 17 Apr 2025 21:12

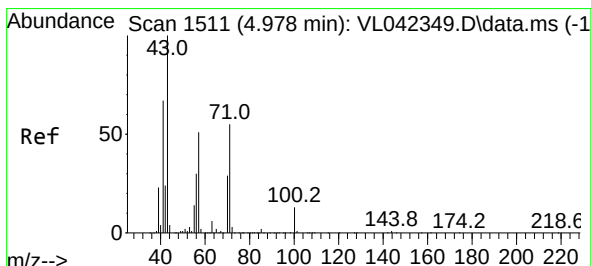
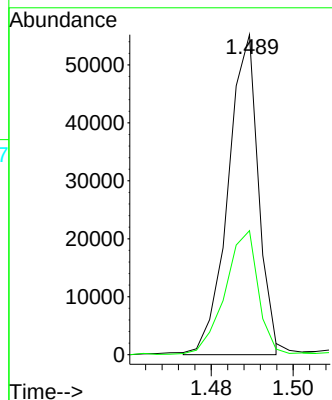
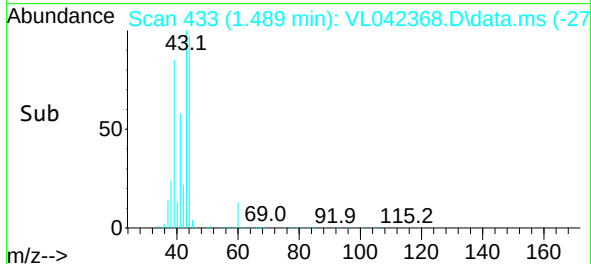
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-2-03312025



Tgt Ion: 41 Resp: 2839
 Ion Ratio Lower Upper
 41 100
 42 319.5 56.2 84.4

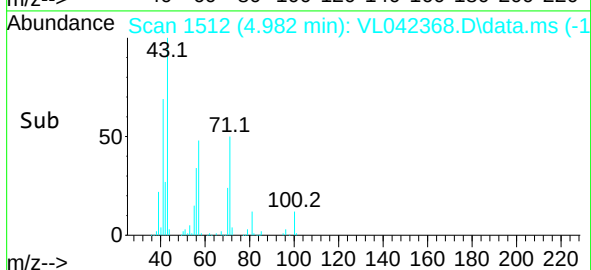
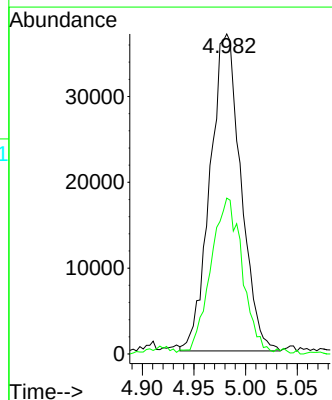
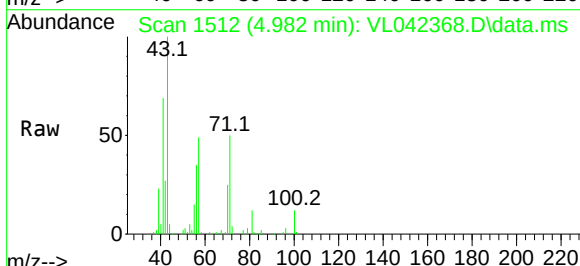
Manual Integrations
 APPROVED

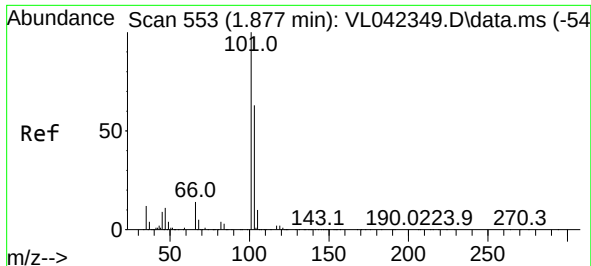
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#10
 Heptane
 Concen: 2.990 ppbv
 RT: 4.982 min Scan# 1512
 Delta R.T. 0.004 min
 Lab File: VL042368.D
 Acq: 17 Apr 2025 21:12

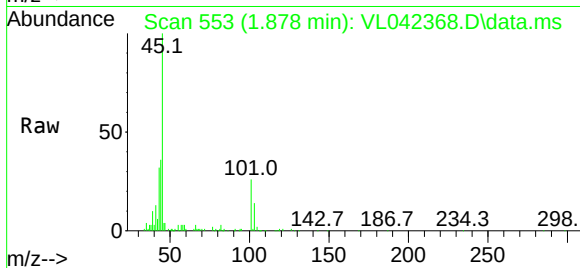
Tgt Ion: 43 Resp: 76723
 Ion Ratio Lower Upper
 43 100
 57 51.7 39.9 59.9





#11
Trichlorofluoromethane
Concen: 0.249 ppbv
RT: 1.878 min Scan# 505
Delta R.T. 0.000 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

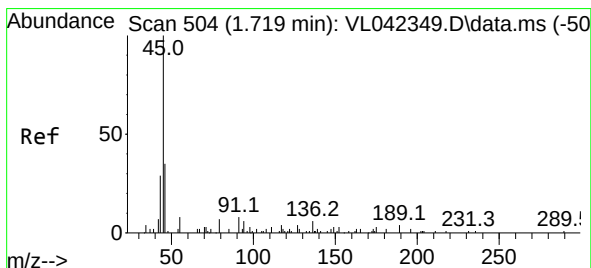
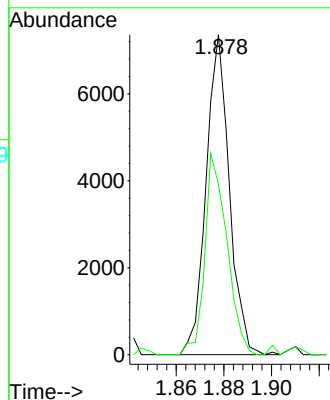
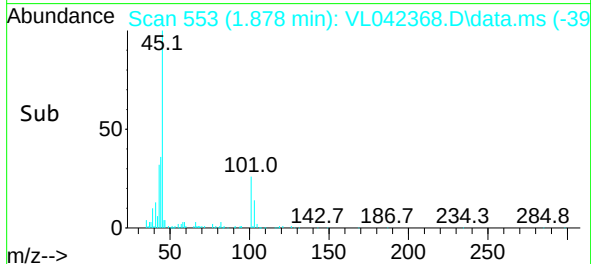
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025



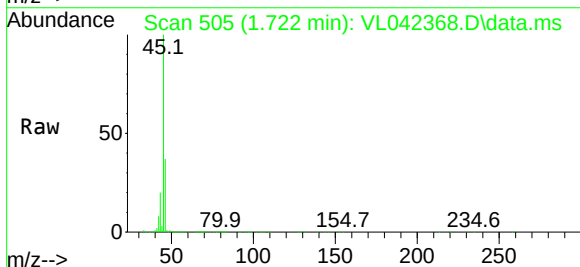
Tgt Ion:101 Resp: 4992
Ion Ratio Lower Upper
101 100
103 53.2 50.1 75.1

Manual Integrations
APPROVED

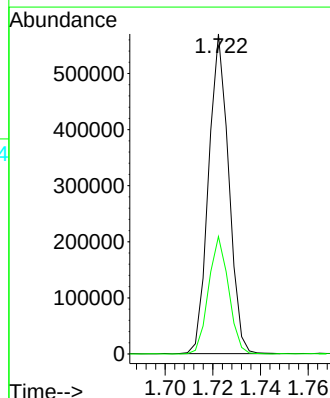
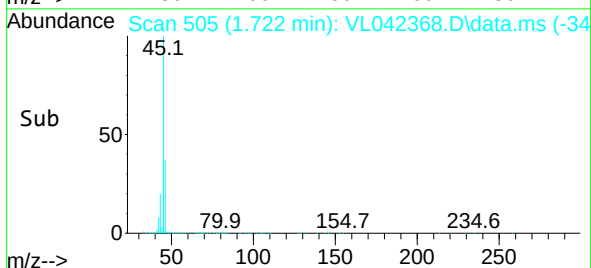
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

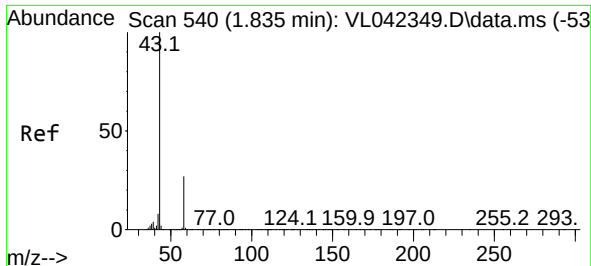


#13
Ethanol
Concen: 230.163 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12



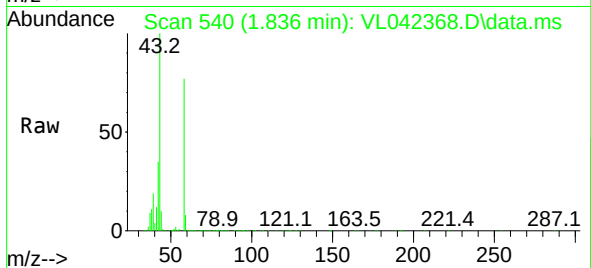
Tgt Ion: 45 Resp: 334088
Ion Ratio Lower Upper
45 100
46 36.9 21.9 87.7





#15
Acetone
Concen: 176.335 ppbv
RT: 1.836 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

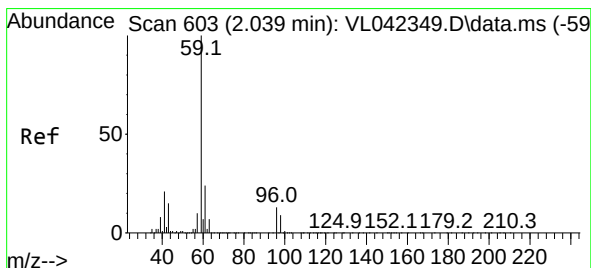
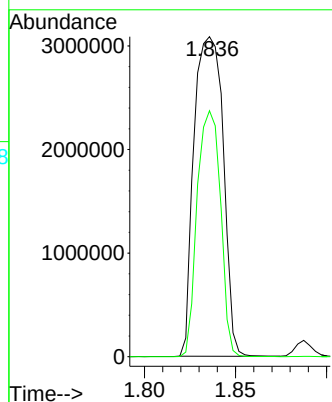
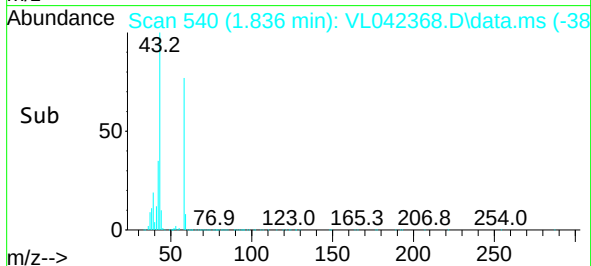
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025



Tgt Ion: 43 Resp: 3440620
Ion Ratio Lower Upper
43 100
58 61.6 22.4 33.6

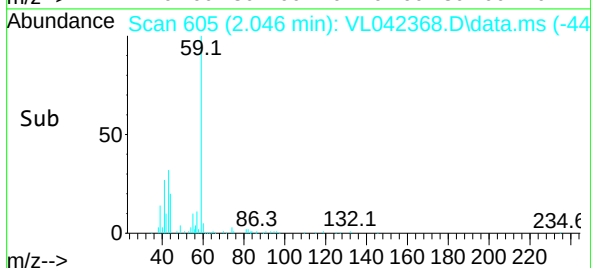
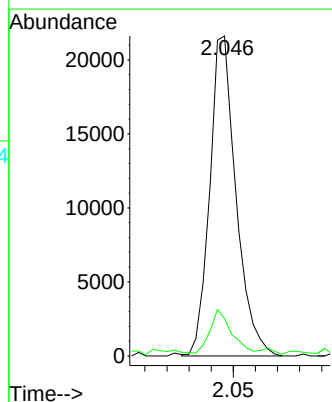
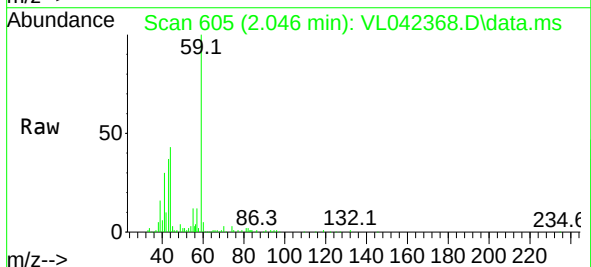
Manual Integrations
APPROVED

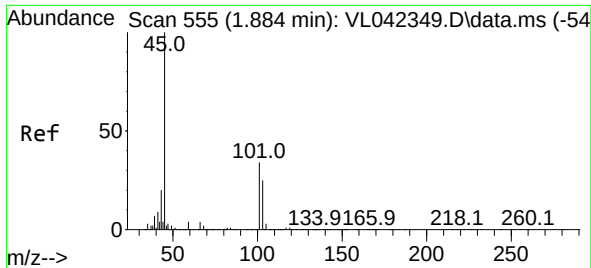
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#17
tert-Butyl alcohol
Concen: 0.740 ppbv m
RT: 2.046 min Scan# 605
Delta R.T. 0.007 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

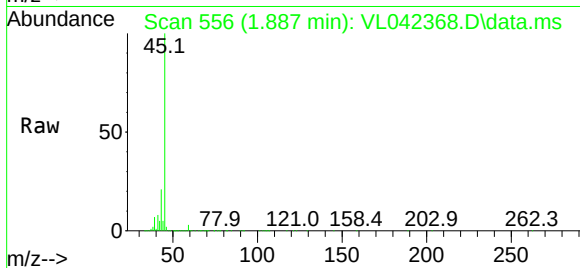
Tgt Ion: 59 Resp: 17897
Ion Ratio Lower Upper
59 100
57 23.6 8.7 13.1





#19
Isopropyl Alcohol
Concen: 43.709 ppbv
RT: 1.887 min Scan# 511
Delta R.T. 0.004 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

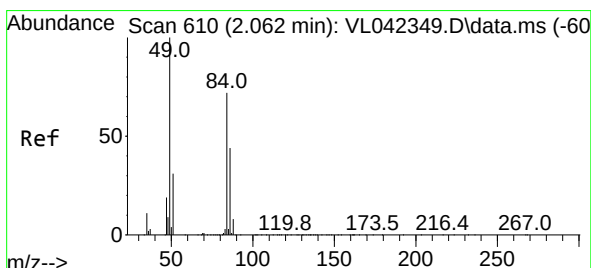
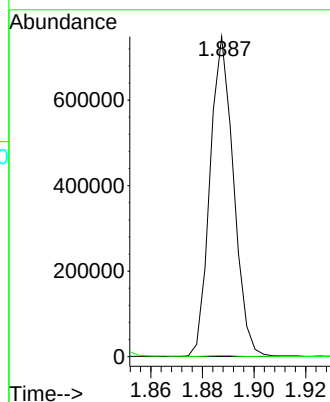
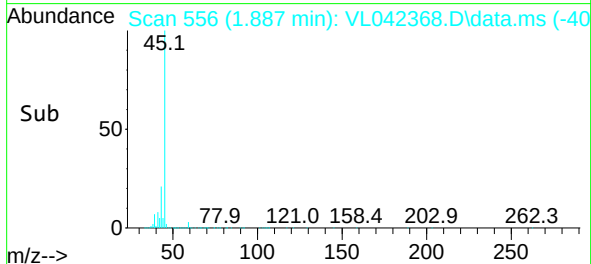
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025



Tgt Ion: 45 Resp: 473769
Ion Ratio Lower Upper
45 100
58 0.0 34.5 51.7

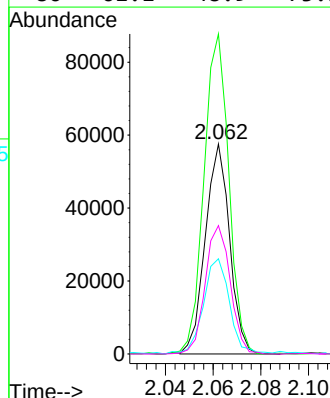
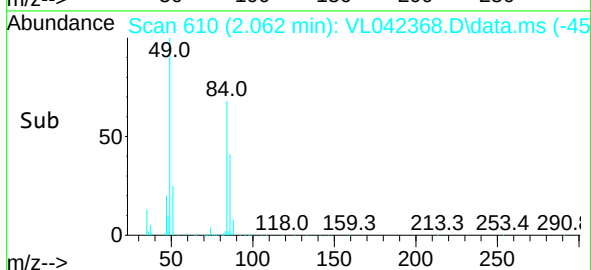
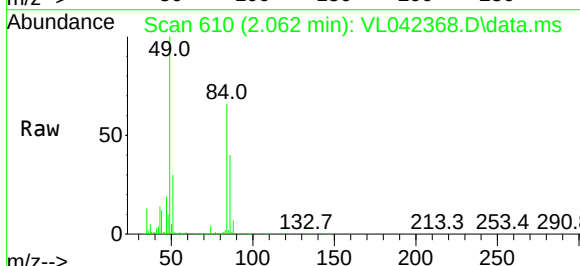
Manual Integrations
APPROVED

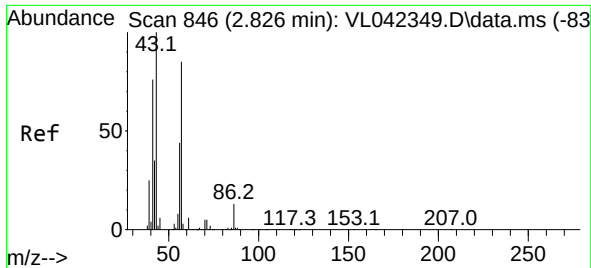
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#20
Methylene Chloride
Concen: 5.357 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

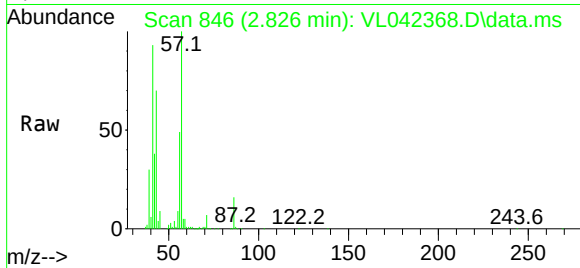
Tgt Ion: 84 Resp: 40932
Ion Ratio Lower Upper
84 100
49 151.7 111.6 167.4
51 44.5 35.1 52.7
86 61.1 48.9 73.3





#26
Hexane
Concen: 4.261 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

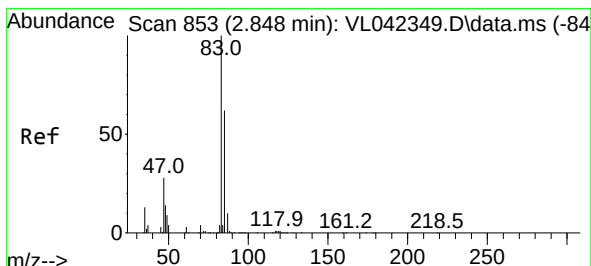
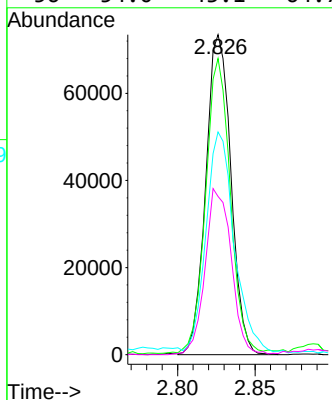
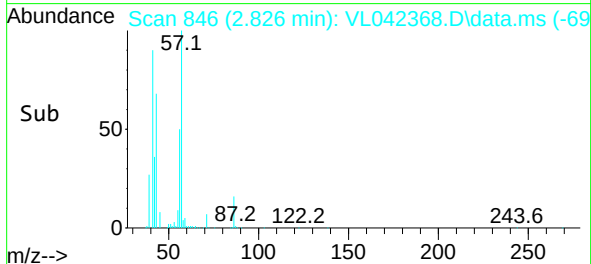
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025



Tgt Ion: 57 Resp: 8295
Ion Ratio Lower Upper
57 100
41 90.3 77.9 116.9
43 80.7 208.4 312.6
56 54.0 43.1 64.7

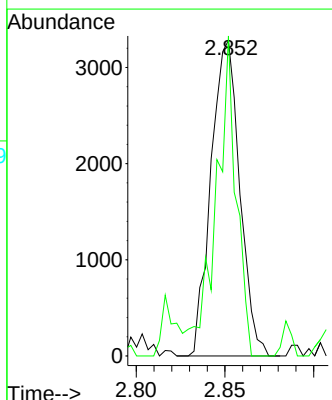
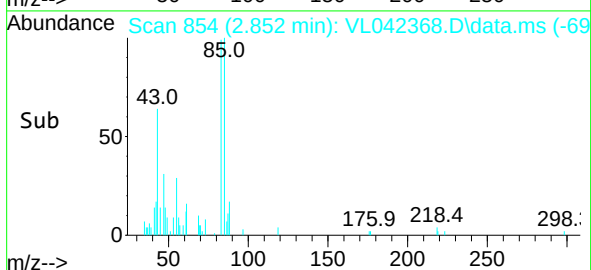
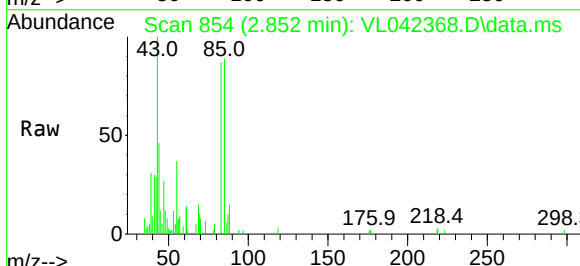
Manual Integrations
APPROVED

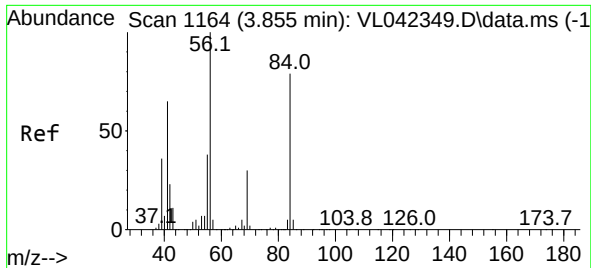
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#29
Chloroform
Concen: 0.134 ppbv m
RT: 2.852 min Scan# 854
Delta R.T. 0.003 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

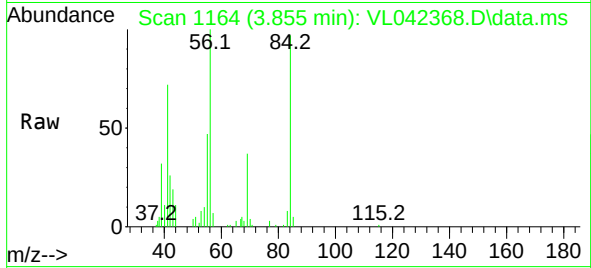
Tgt Ion: 83 Resp: 3693
Ion Ratio Lower Upper
83 100
85 101.4 50.0 75.0#





#30
Cyclohexane
Concen: 0.967 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. 0.000 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

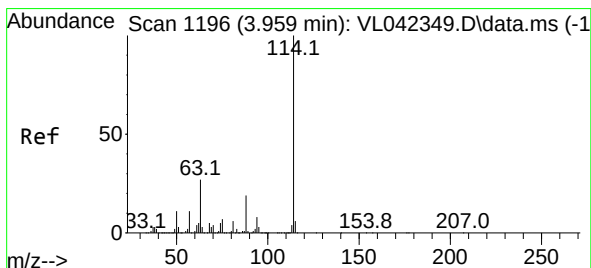
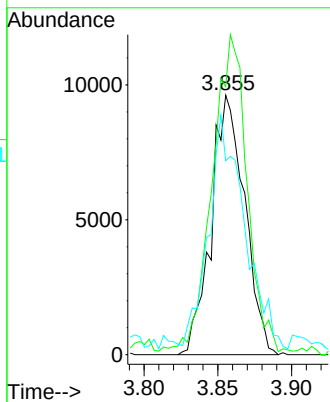
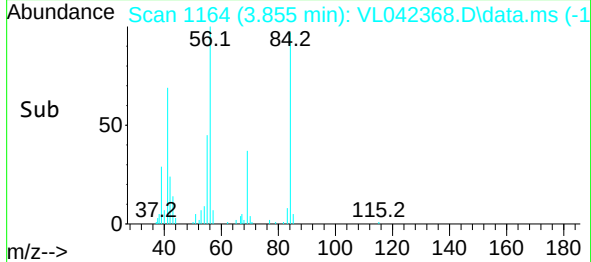
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025



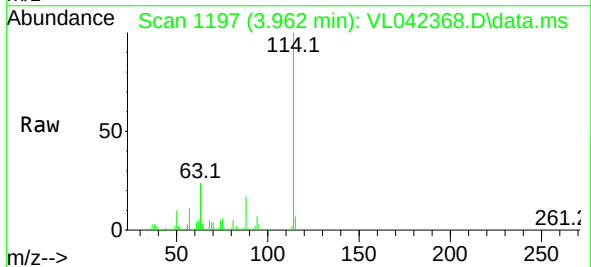
Tgt Ion: 84 Resp: 1521
Ion Ratio Lower Upper
84 100
56 125.5 101.0 151.4
41 103.5 67.4 101.0

Manual Integrations
APPROVED

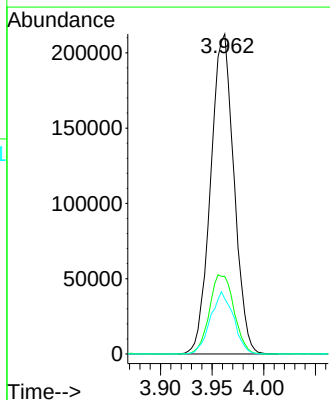
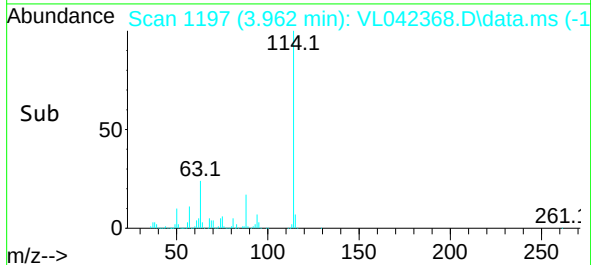
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

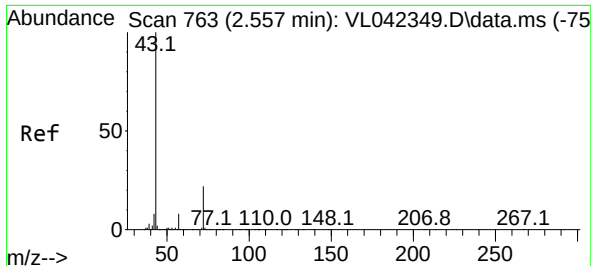


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. 0.004 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12



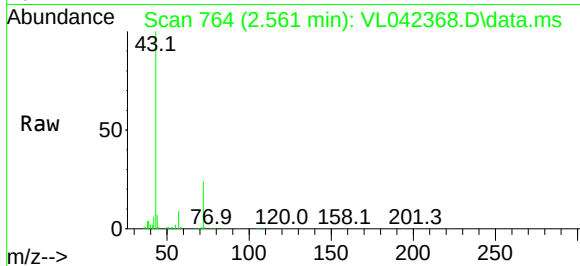
Tgt Ion:114 Resp: 333003
Ion Ratio Lower Upper
114 100
63 26.1 21.8 32.6
88 19.3 15.5 23.3





#34
2-Butanone
Concen: 1.520 ppbv
RT: 2.561 min Scan# 764
Delta R.T. 0.004 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

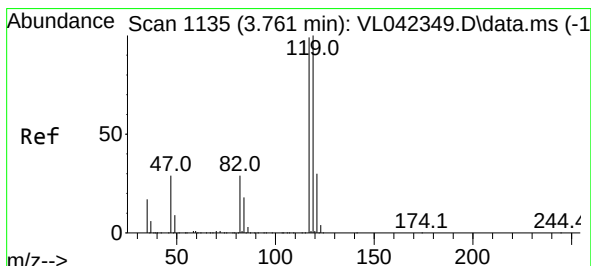
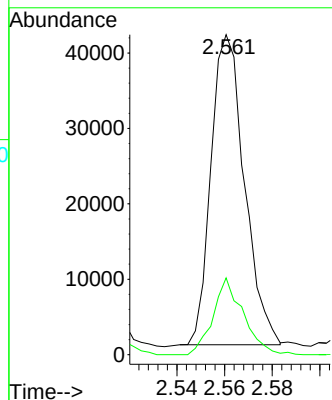
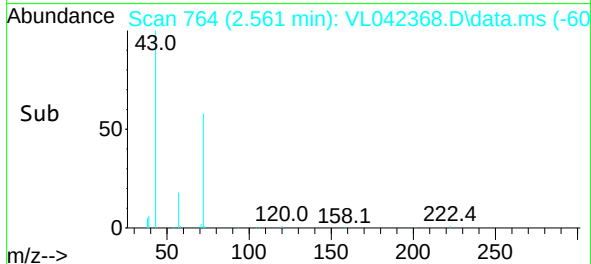
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025



Tgt Ion: 43 Resp: 4004
Ion Ratio Lower Upper
43 100
72 22.5 18.2 27.2

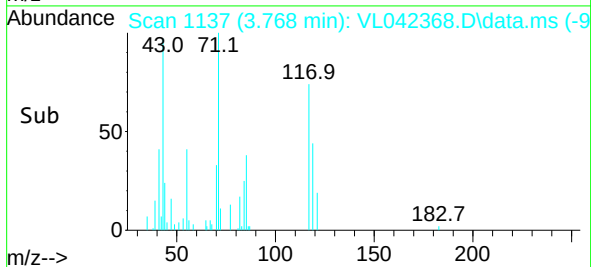
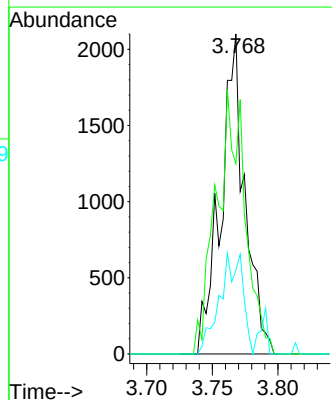
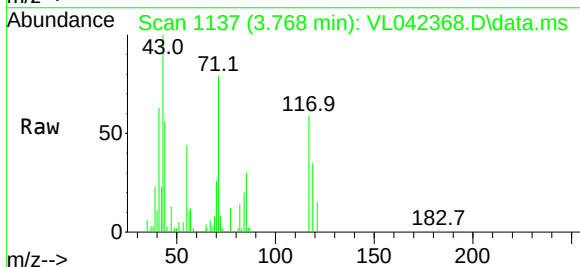
Manual Integrations
APPROVED

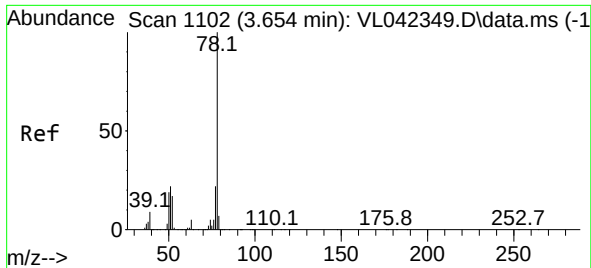
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#35
Carbon Tetrachloride
Concen: 0.089 ppbv m
RT: 3.768 min Scan# 1137
Delta R.T. 0.007 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion:117 Resp: 2692
Ion Ratio Lower Upper
117 100
119 59.5 80.5 120.7#
121 26.1 24.2 36.2





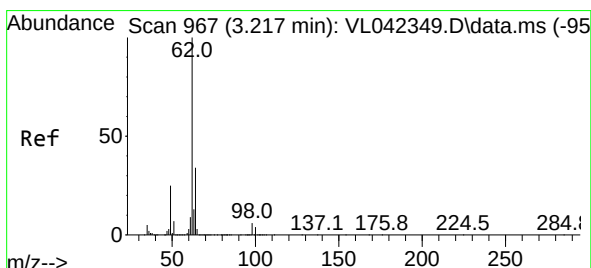
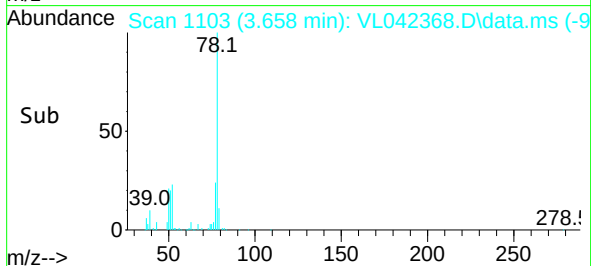
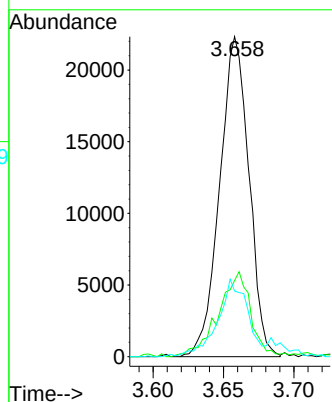
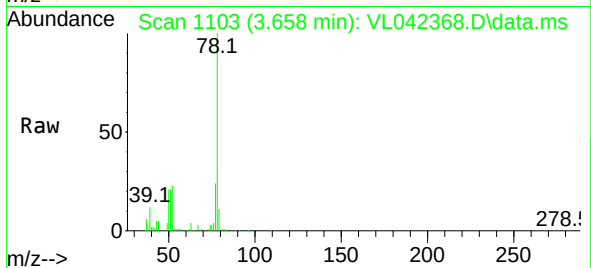
#36
Benzene
Concen: 0.901 ppbv
RT: 3.658 min Scan# 1102
Delta R.T. 0.004 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

Tgt Ion: 78 Resp: 32372
Ion Ratio Lower Upper
78 100
77 23.0 17.4 26.0
50 19.9 15.5 23.3

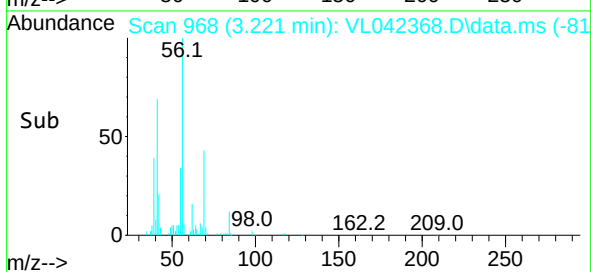
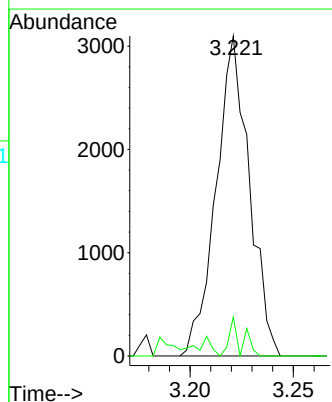
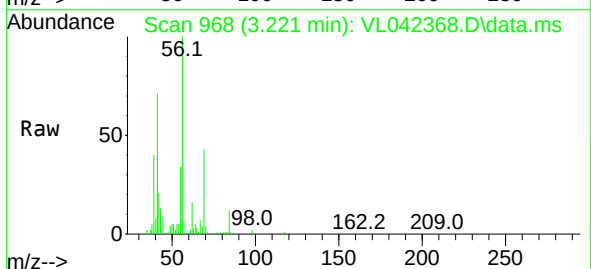
Manual Integrations
APPROVED

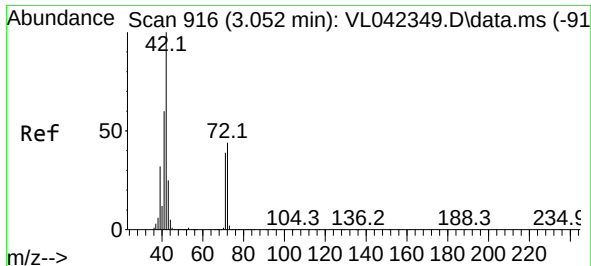
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#37
1,2-Dichloroethane
Concen: 0.161 ppbv
RT: 3.221 min Scan# 968
Delta R.T. 0.004 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

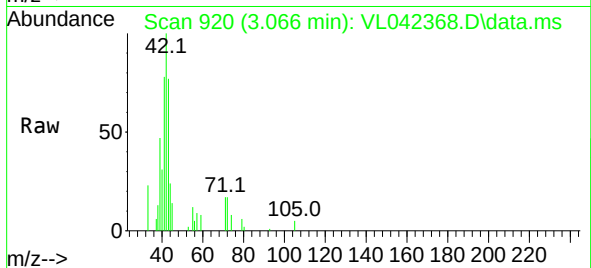
Tgt Ion: 62 Resp: 3461
Ion Ratio Lower Upper
62 100
98 7.9 5.1 7.7#





#41
Tetrahydrofuran
Concen: 0.269 ppbv
RT: 3.066 min Scan# 916
Delta R.T. 0.013 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

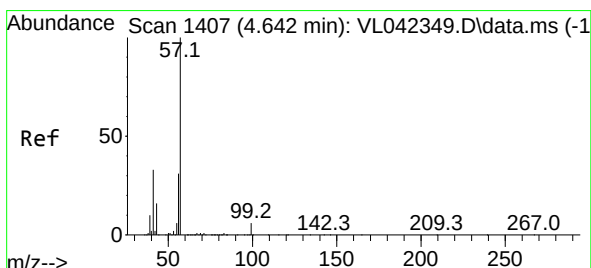
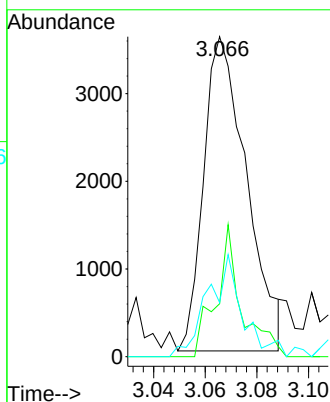
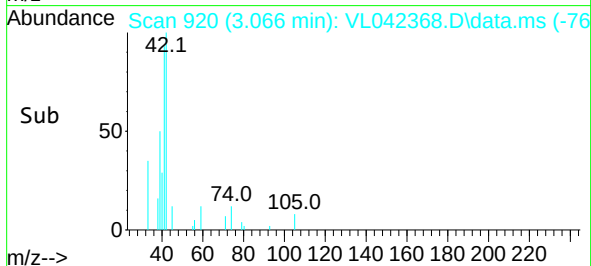
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025



Tgt Ion: 42 Resp: 4138
Ion Ratio Lower Upper
42 100
72 24.8 32.3 48.5
71 29.5 31.4 47.2

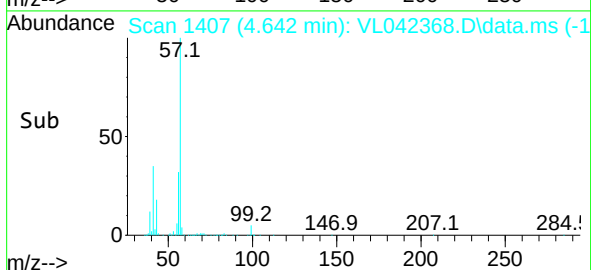
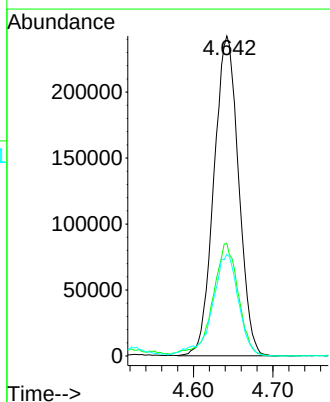
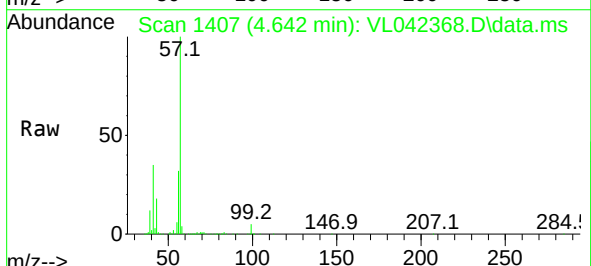
Manual Integrations
APPROVED

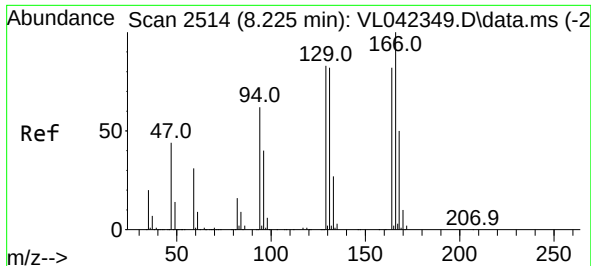
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#44
2,2,4-Trimethylpentane
Concen: 8.414 ppbv
RT: 4.642 min Scan# 1407
Delta R.T. 0.000 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

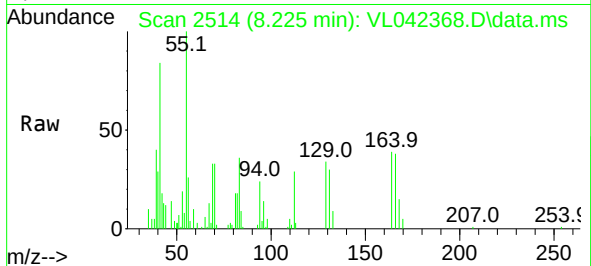
Tgt Ion: 57 Resp: 521960
Ion Ratio Lower Upper
57 100
41 36.7 27.2 40.8
56 34.1 25.7 38.5





#52
Tetrachloroethene
Concen: 0.257 ppbv m
RT: 8.225 min Scan# 2115
Delta R.T. 0.000 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

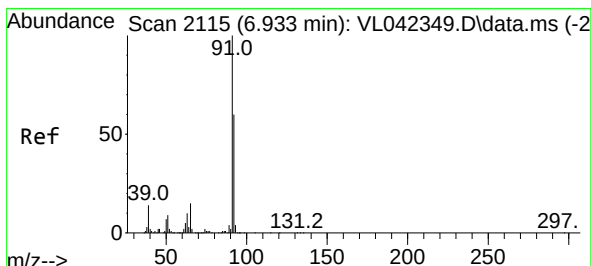
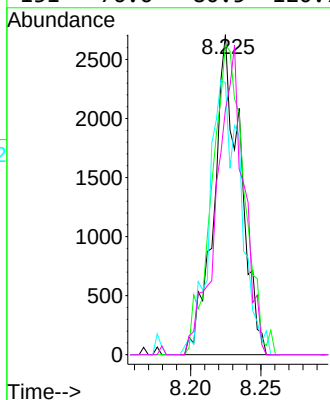
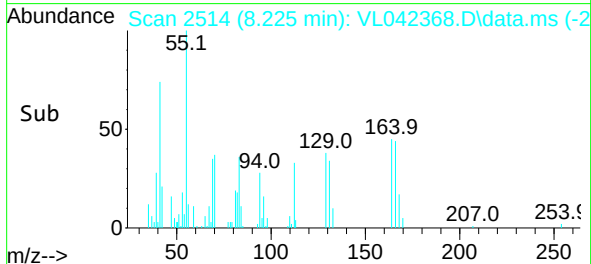
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025



Tgt Ion:164 Resp: 356
Ion Ratio Lower Upper
164 100
166 96.9 98.2 147.2
129 85.0 81.8 122.8
131 76.6 80.5 120.7#

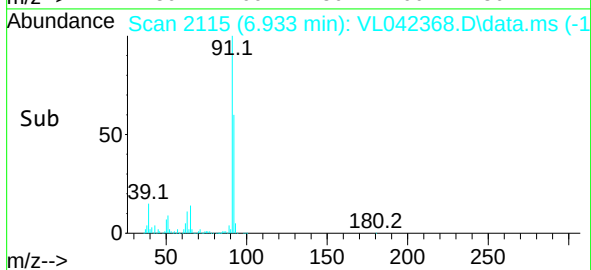
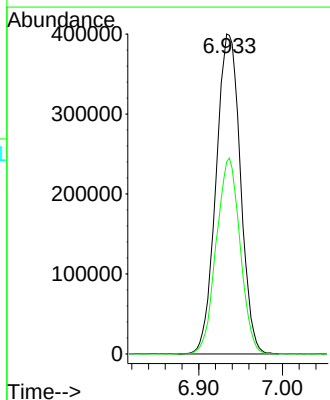
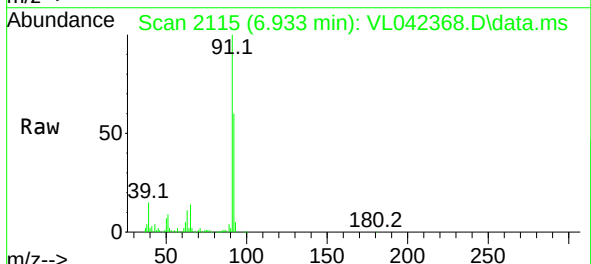
Manual Integrations
APPROVED

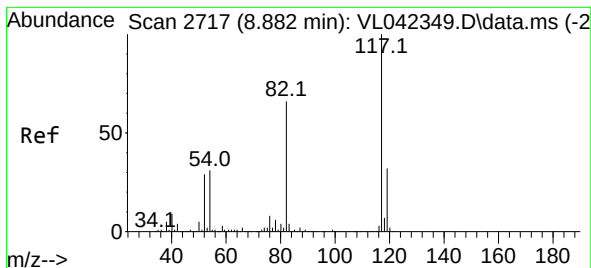
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#53
Toluene
Concen: 18.711 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. 0.000 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion: 91 Resp: 806485
Ion Ratio Lower Upper
91 100
92 59.9 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: VL042368.D

Acq: 17 Apr 2025 21:12

Instrument :

MSVOA_L

ClientSampleId :

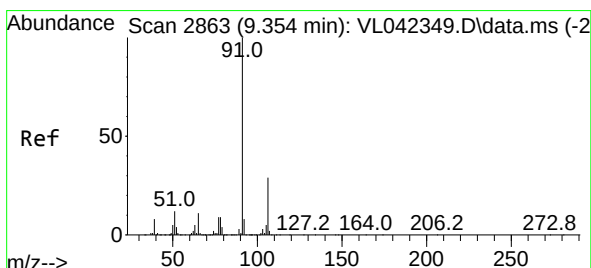
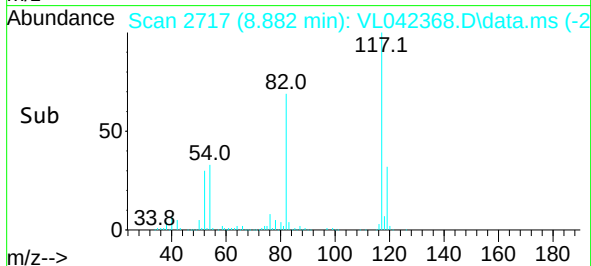
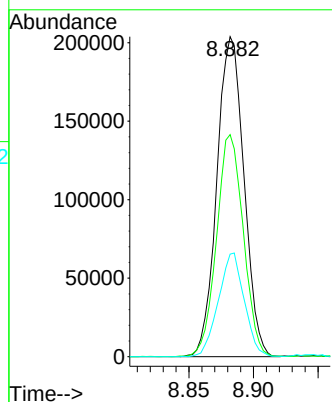
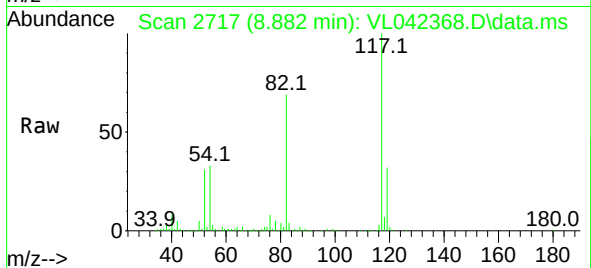
IA-B2-2-03312025

Tgt Ion:	117	Resp:	29749
Ion Ratio	Lower	Upper	
117	100		
82	68.6	57.8	86.6
119	30.9	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: 3.643 ppbv

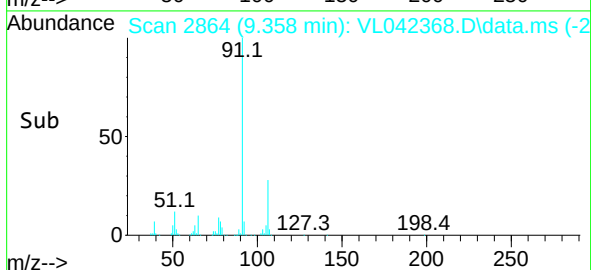
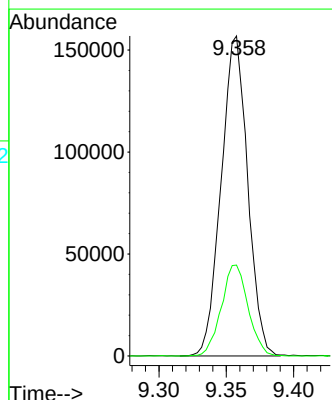
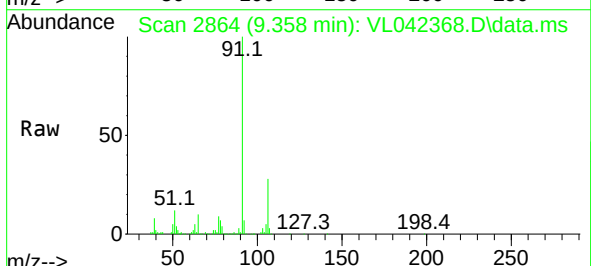
RT: 9.358 min Scan# 2864

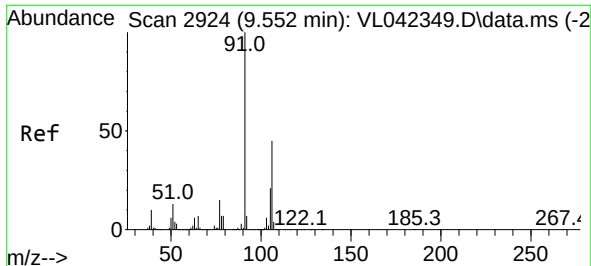
Delta R.T. 0.004 min

Lab File: VL042368.D

Acq: 17 Apr 2025 21:12

Tgt Ion:	91	Resp:	214751
Ion Ratio	Lower	Upper	
91	100		
106	28.4	23.0	34.4





#59

m/p-Xylene

Concen: 12.631 ppbv

RT: 9.532 min Scan# 2918

Delta R.T. -0.019 min

Lab File: VL042368.D

Acq: 17 Apr 2025 21:12

Instrument :

MSVOA_L

ClientSampleId :

IA-B2-2-03312025

Tgt Ion: 91 Resp: 599749

Ion Ratio Lower Upper

91 100

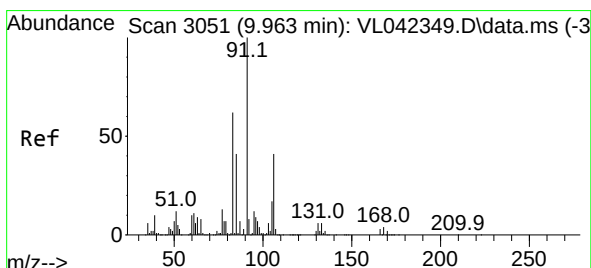
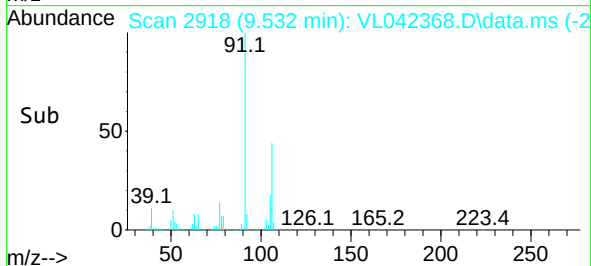
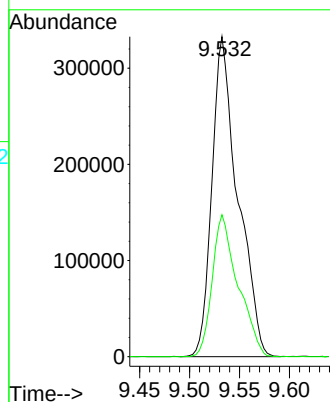
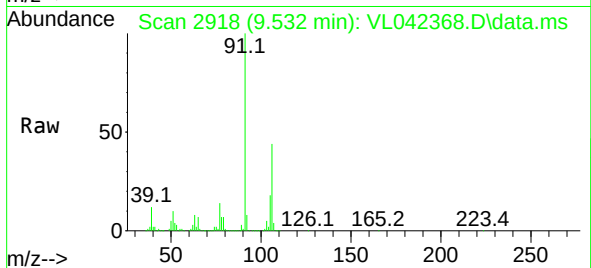
106 44.1 35.4 53.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#60

o-Xylene

Concen: 4.992 ppbv

RT: 9.966 min Scan# 3052

Delta R.T. 0.004 min

Lab File: VL042368.D

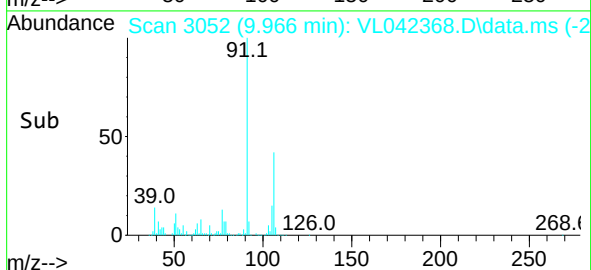
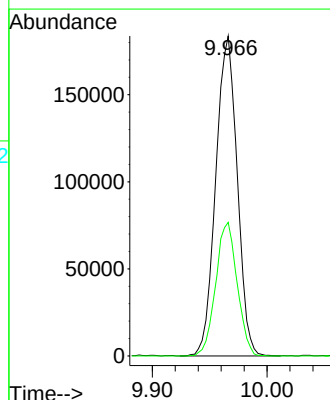
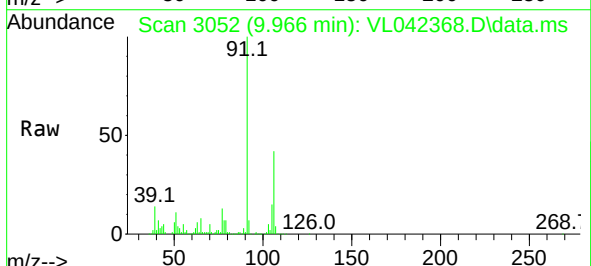
Acq: 17 Apr 2025 21:12

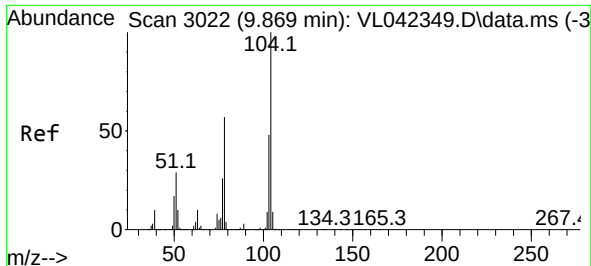
Tgt Ion: 91 Resp: 238681

Ion Ratio Lower Upper

91 100

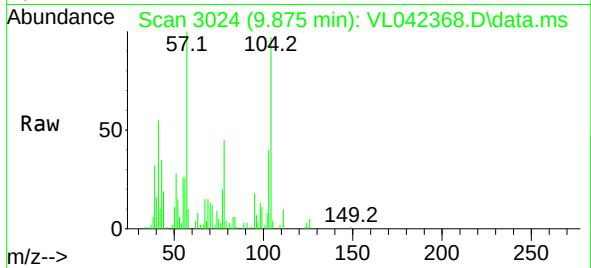
106 41.8 21.1 63.4





#61
Styrene
Concen: 0.395 ppbv
RT: 9.875 min Scan# 3022
Delta R.T. 0.007 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

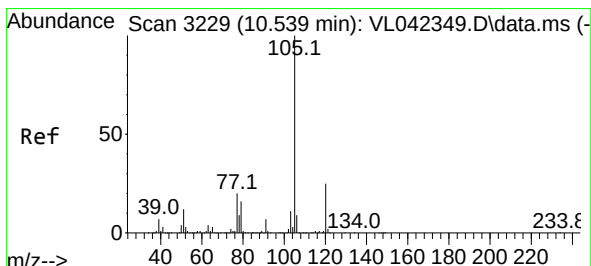
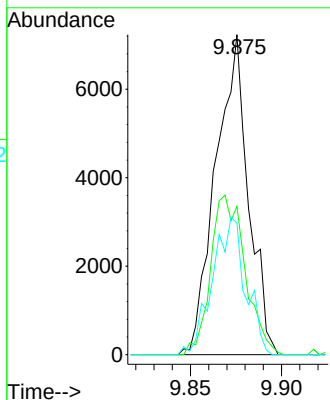
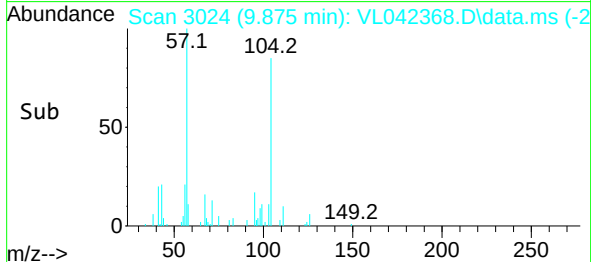
Instrument : MSVOA_L
ClientSampleId : IA-B2-2-03312025



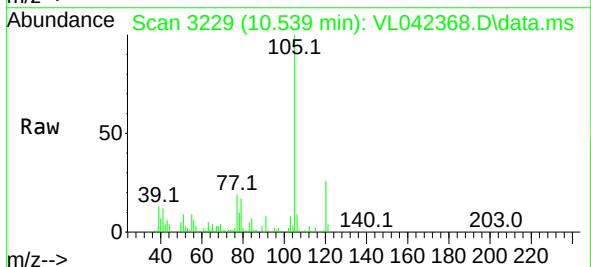
Tgt Ion:104 Resp: 902
Ion Ratio Lower Upper
104 100
78 52.5 44.6 66.8
103 43.6 37.4 56.0

Manual Integrations APPROVED

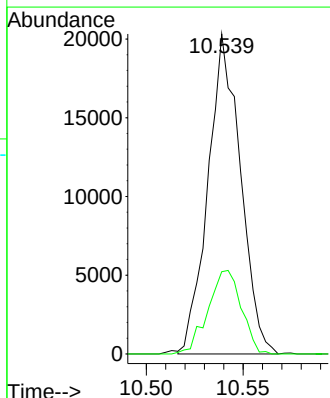
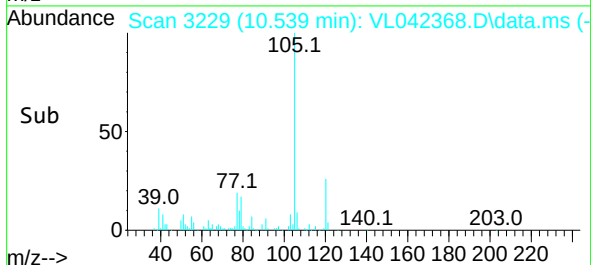
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

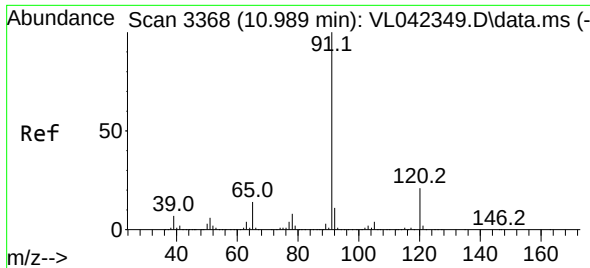


#62
Isopropylbenzene
Concen: 0.337 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. 0.000 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12



Tgt Ion:105 Resp: 23690
Ion Ratio Lower Upper
105 100
120 26.8 19.8 29.8





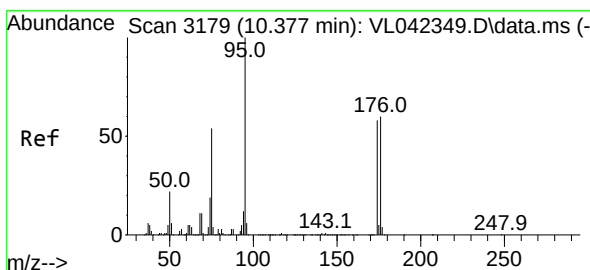
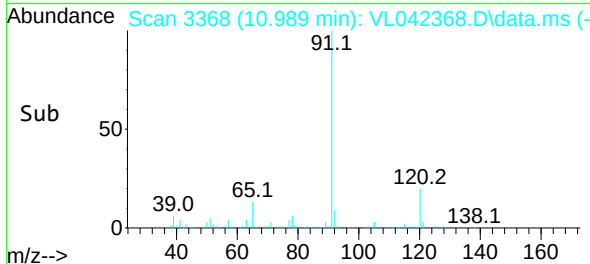
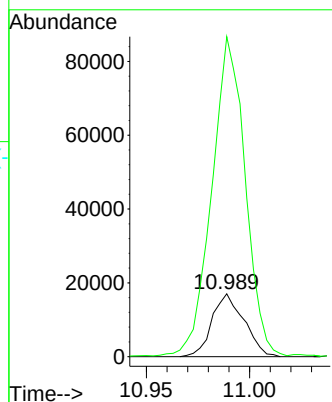
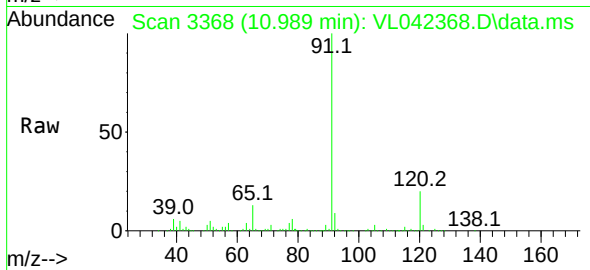
#64
n-propylbenzene
Concen: 1.044 ppbv
RT: 10.989 min Scan# 3179
Delta R.T. 0.000 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

Tgt Ion:120 Resp: 18420
Ion Ratio Lower Upper
120 100
91 530.0 392.4 588.6

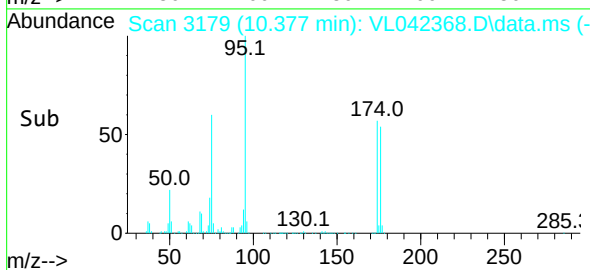
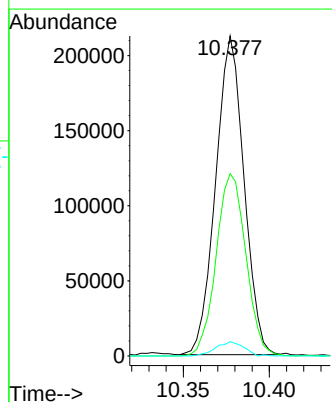
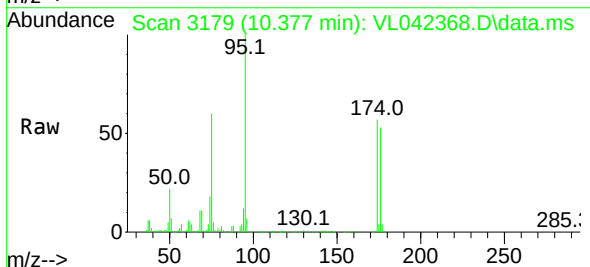
Manual Integrations
APPROVED

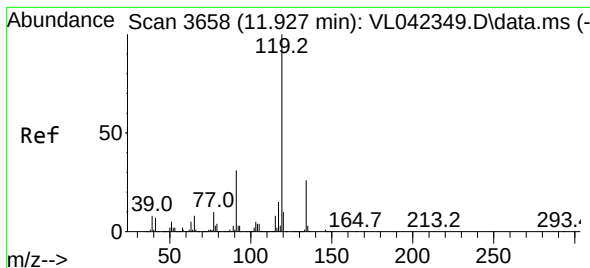
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.942 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.000 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

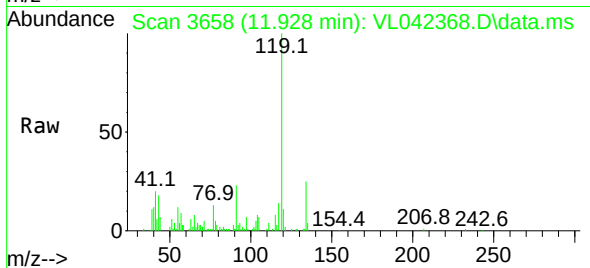
Tgt Ion: 95 Resp: 243044
Ion Ratio Lower Upper
95 100
174 60.1 48.5 72.7
175 4.4 3.7 5.5





#69
p-Isopropyltoluene
Concen: 0.184 ppbv
RT: 11.928 min Scan# 3658
Delta R.T. 0.000 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

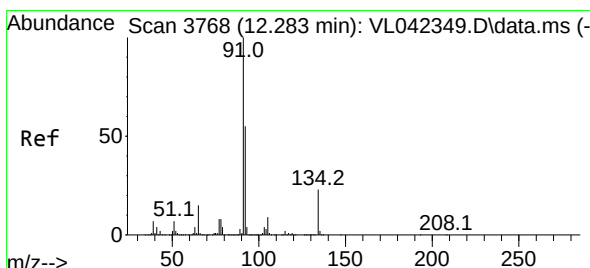
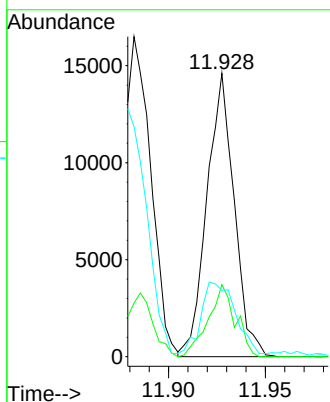
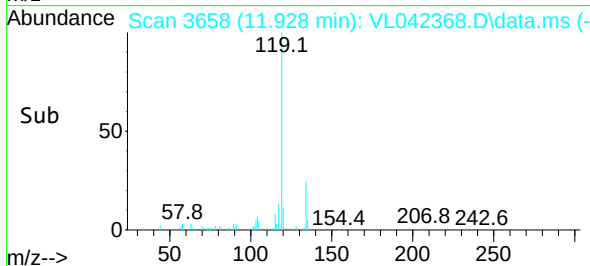
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025



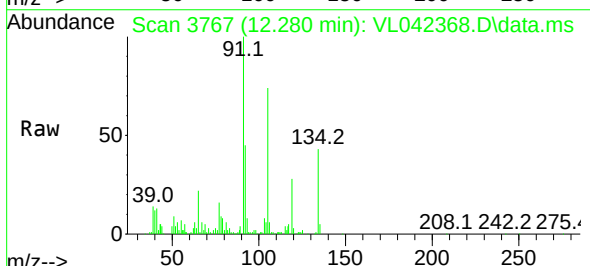
Tgt Ion: 119 Resp: 14319
Ion Ratio Lower Upper
119 100
134 25.4 20.0 30.0
91 34.4 24.4 36.6

Manual Integrations
APPROVED

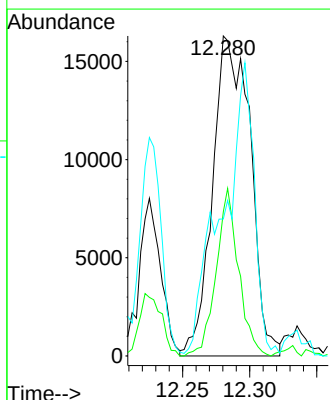
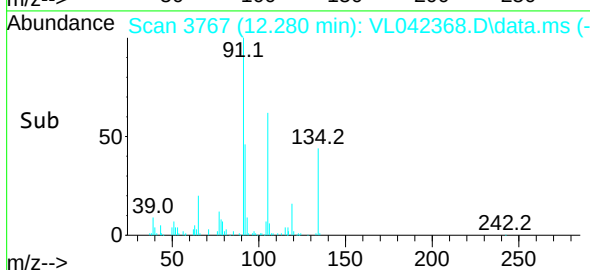
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

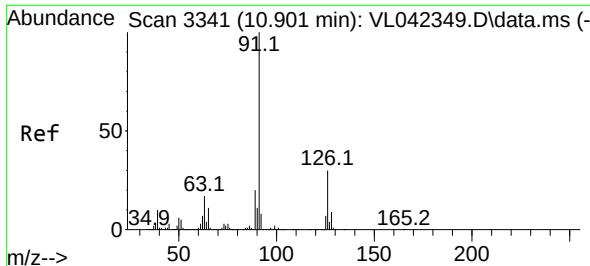


#70
n-Butylbenzene
Concen: 0.391 ppbv m
RT: 12.280 min Scan# 3767
Delta R.T. -0.003 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12



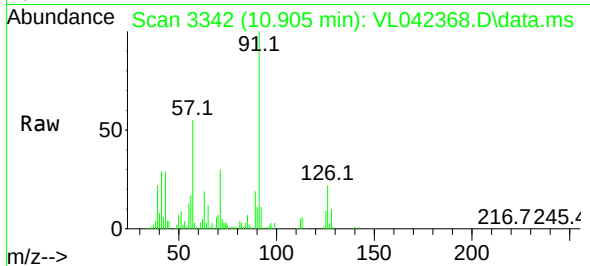
Tgt Ion: 91 Resp: 31785
Ion Ratio Lower Upper
91 100
92 31.2 44.2 66.4#
134 0.0 18.2 27.4#





#71
2-Chlorotoluene
Concen: 0.517 ppbv
RT: 10.905 min Scan# 31
Delta R.T. 0.004 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

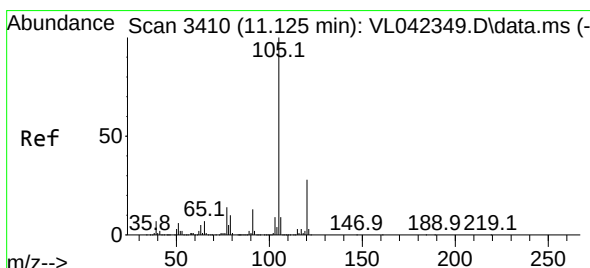
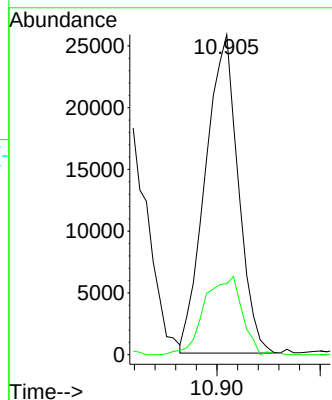
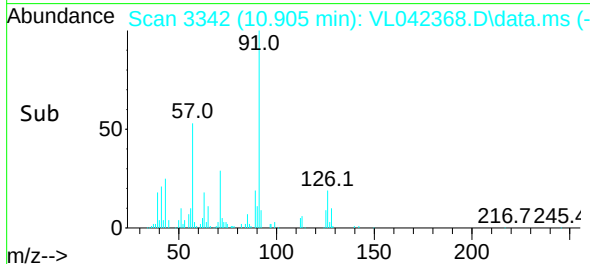
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025



Tgt Ion: 91 Resp: 28490
Ion Ratio Lower Upper
91 100
126 29.0 11.4 45.4

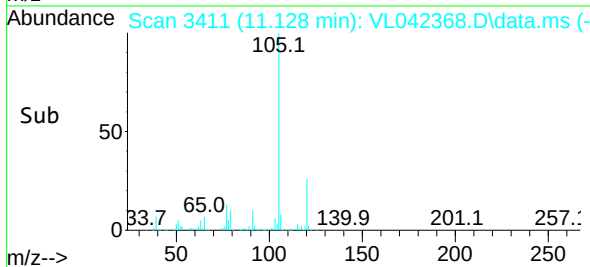
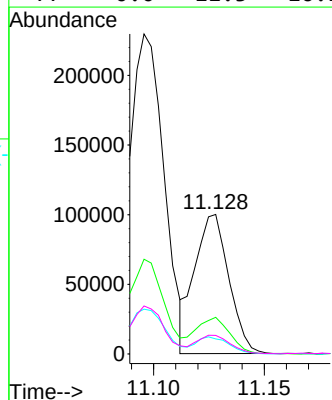
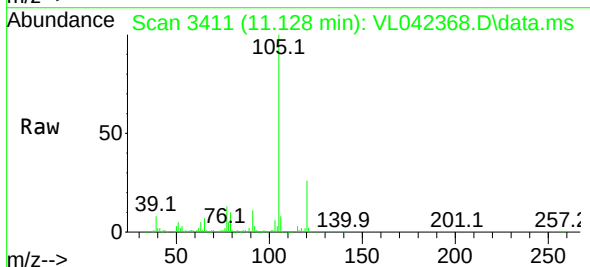
Manual Integrations
APPROVED

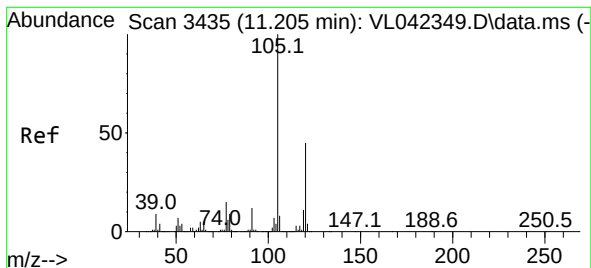
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#72
4-Ethyltoluene
Concen: 1.839 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. 0.004 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion:105 Resp: 107491
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: 2.130 ppbv

RT: 11.206 min Scan# 3435

Delta R.T. 0.000 min

Lab File: VL042368.D

Acq: 17 Apr 2025 21:12

Instrument :

MSVOA_L

ClientSampleId :

IA-B2-2-03312025

Tgt Ion:105 Resp: 10990

Ion Ratio Lower Upper

105 100

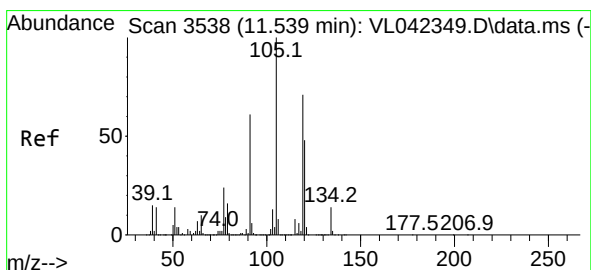
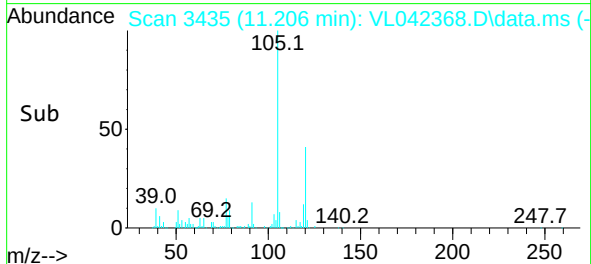
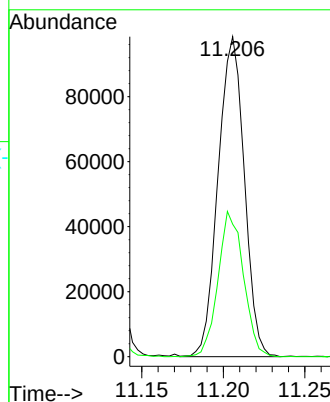
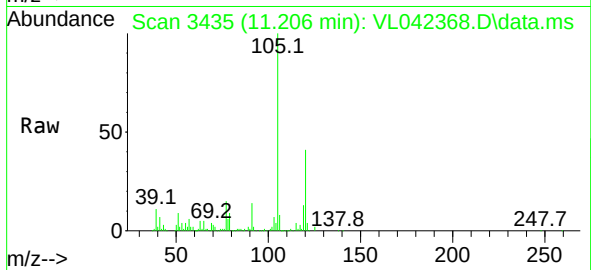
120 41.4 35.6 53.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#74

1,2,4-Trimethylbenzene

Concen: 5.794 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. 0.000 min

Lab File: VL042368.D

Acq: 17 Apr 2025 21:12

Tgt Ion:105 Resp: 349266

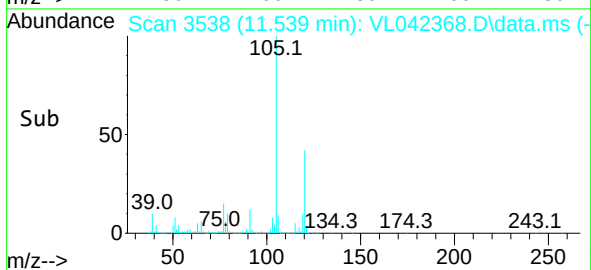
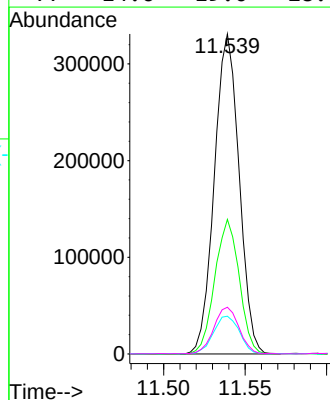
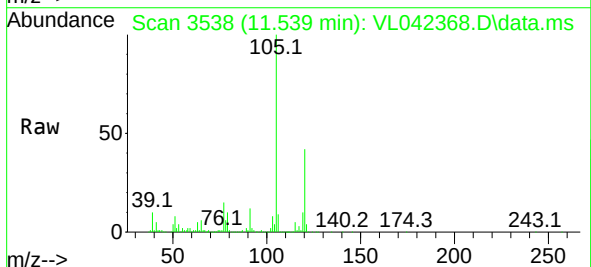
Ion Ratio Lower Upper

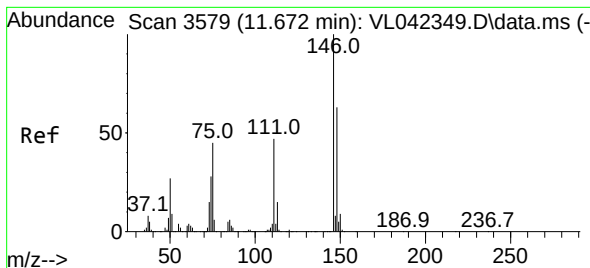
105 100

120 42.1 38.1 57.1

91 11.7 48.8 73.2#

77 14.6 19.0 28.4#





#76

1,4-Dichlorobenzene

Concen: 0.103 ppbv

RT: 11.672 min Scan# 3579

Delta R.T. 0.000 min

Lab File: VL042368.D

Acq: 17 Apr 2025 21:12

Instrument :

MSVOA_L

ClientSampleId :

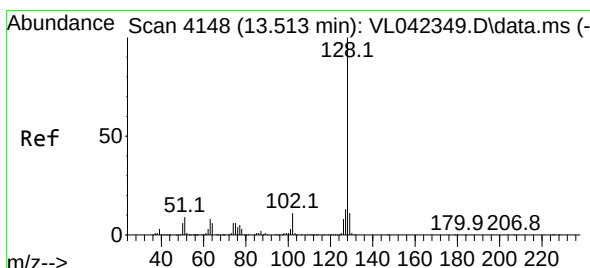
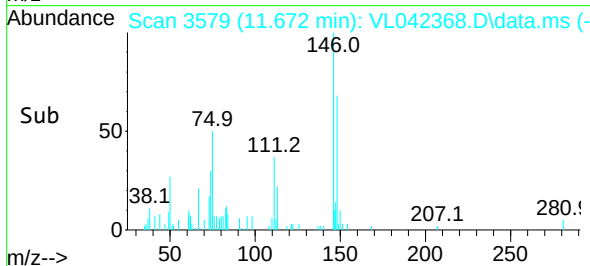
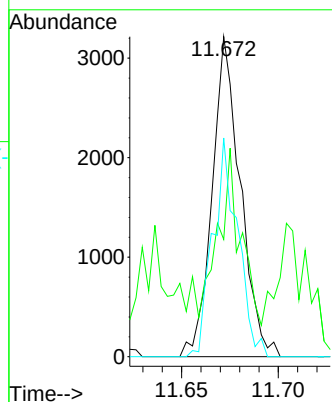
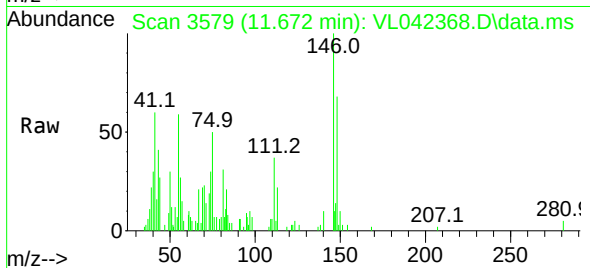
IA-B2-2-03312025

Tgt Ion:	146	Resp:	325
Ion Ratio	Lower	Upper	
146	100		
111	41.6	24.2	72.6
148	60.1	32.1	96.5

Manual Integrations

APPROVED

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



#79

Naphthalene

Concen: 0.420 ppbv

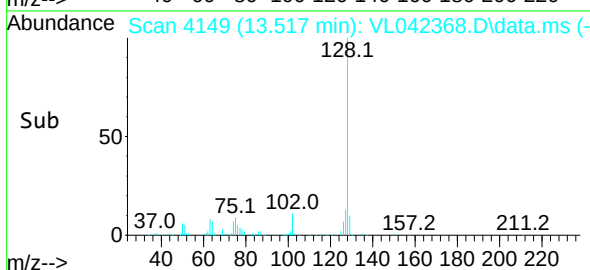
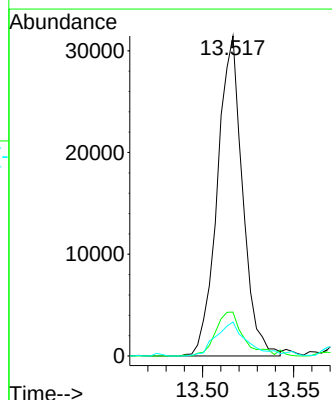
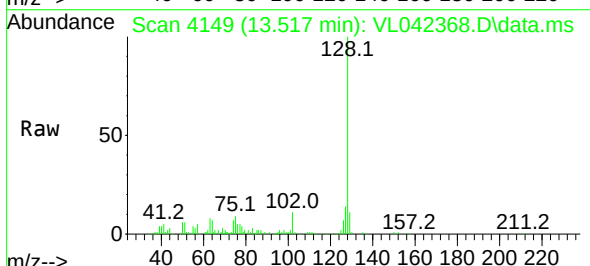
RT: 13.517 min Scan# 4149

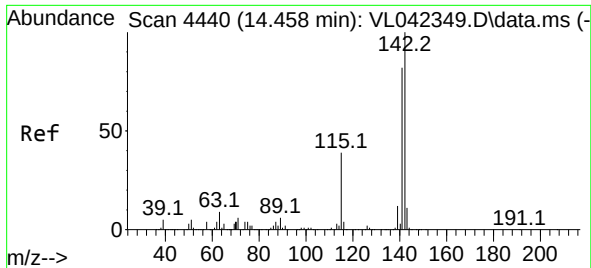
Delta R.T. 0.004 min

Lab File: VL042368.D

Acq: 17 Apr 2025 21:12

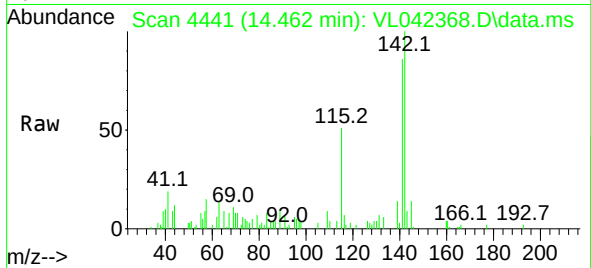
Tgt Ion:	128	Resp:	30244
Ion Ratio	Lower	Upper	
128	100		
127	13.7	10.6	15.8
129	10.6	8.6	12.8





#80
Naphthalene, 2-methyl-
Concen: 0.166 ppbv m
RT: 14.462 min Scan# 44
Delta R.T. 0.004 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

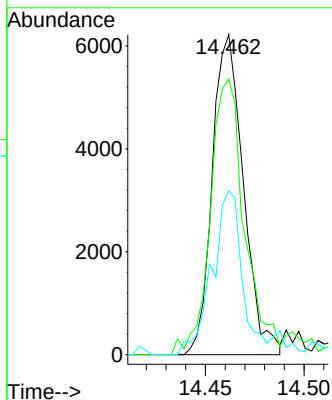
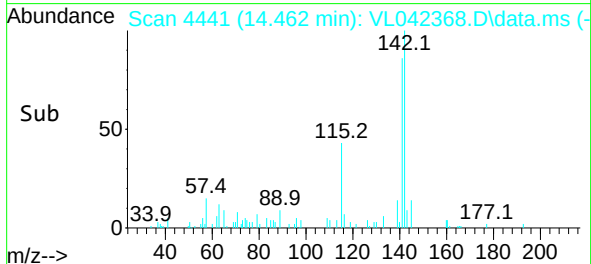
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025



Tgt Ion:	142	Resp:	683
Ion Ratio	Lower	Upper	
142	100		
141	50.4	66.8	100.2
115	28.3	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 : VL042368.D
 Acq On : 17 Apr 2025 21:12
 Operator : SY/MD
 Sample : Q1726-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-2-03312025

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: VL042368.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	4202001	4820620	57.67%	9.685%
2	1.467	423	426	429	rVV	301383	150789	1.80%	0.303%
3	1.489	429	433	438	rVV2	408488	216888	2.59%	0.436%
4	1.525	440	444	450	rVV	701475	376524	4.50%	0.756%
5	1.557	450	454	462	rVV2	1307908	697145	8.34%	1.401%
6	1.622	470	474	478	rVB	719191	384686	4.60%	0.773%
7	1.722	500	505	510	rVB	978488	575283	6.88%	1.156%
8	1.836	535	540	550	rVB	8992481	8359296	100.00%	16.794%
9	1.887	550	556	564	rBV	1162691	748619	8.96%	1.504%
10	2.062	605	610	620	rVB2	285783	244095	2.92%	0.490%
11	2.276	670	676	685	rVB	198088	171969	2.06%	0.345%
12	2.473	733	737	743	rVB	139361	132936	1.59%	0.267%
13	2.625	775	784	792	rVB	110989	121390	1.45%	0.244%
14	2.787	827	834	840	rBV	421079	443819	5.31%	0.892%
15	2.826	840	846	860	rVB	330521	391565	4.68%	0.787%
16	3.231	961	971	979	rVB2	118972	165924	1.98%	0.333%
17	3.282	979	987	998	rVB2	73265	104906	1.25%	0.211%
18	3.655	1086	1102	1108	rBV5	56969	126866	1.52%	0.255%
19	3.687	1108	1112	1127	rVB	108546	163005	1.95%	0.327%
20	3.859	1153	1165	1177	rBV4	50022	98181	1.17%	0.197%
21	3.959	1184	1196	1209	rBV3	553950	898645	10.75%	1.805%
22	4.053	1214	1225	1233	rVV	188176	350500	4.19%	0.704%
23	4.095	1233	1238	1251	rVB4	87481	149250	1.79%	0.300%
24	4.270	1279	1292	1306	rVB4	205824	421597	5.04%	0.847%
25	4.642	1385	1407	1426	rVB2	554929	1285789	15.38%	2.583%
26	4.985	1499	1513	1524	rVB3	157355	315966	3.78%	0.635%
27	5.665	1702	1723	1745	rVB4	115360	333648	3.99%	0.670%
28	6.202	1877	1889	1899	rBV6	69534	187655	2.24%	0.377%
29	6.273	1899	1911	1927	rVB6	84360	234340	2.80%	0.471%
30	6.827	2066	2082	2099	rBV5	254828	627320	7.50%	1.260%
31	6.937	2099	2116	2147	rVB3	1125132	2664888	31.88%	5.354%
32	7.189	2181	2194	2205	rBV5	84751	178313	2.13%	0.358%
33	7.380	2237	2253	2261	rBV3	127935	253654	3.03%	0.510%
34	7.594	2310	2319	2320	rBV2	123907	124907	1.49%	0.251%
35	7.603	2320	2322	2339	rVV7	129267	257200	3.08%	0.517%
36	7.688	2339	2348	2361	rVB5	171593	311289	3.72%	0.625%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042368.D
 Acq On : 17 Apr 2025 21:12
 Operator : SY/MD
 Sample : Q1726-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-2-03312025

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	7.895	2399	2412	2429	rBV3	124373	291449	3.49%	0.586%
38	8.134	2475	2486	2502	rBV8	53638	110696	1.32%	0.222%
39	8.231	2504	2516	2523	rVV8	61328	112472	1.35%	0.226%
40	8.302	2523	2538	2553	rVB5	221229	471782	5.64%	0.948%
41	8.882	2703	2717	2727	rBV	734223	1125315	13.46%	2.261%
42	8.940	2727	2735	2741	rVV2	76102	128197	1.53%	0.258%
43	8.979	2741	2747	2764	rVB8	79278	182704	2.19%	0.367%
44	9.147	2791	2799	2812	rBV2	58776	91394	1.09%	0.184%
45	9.354	2853	2863	2877	rBV	370587	561411	6.72%	1.128%
46	9.494	2897	2906	2911	rBV	374607	476444	5.70%	0.957%
47	9.532	2911	2918	2935	rVB2	954719	1801861	21.56%	3.620%
48	9.733	2967	2980	2990	rVB5	105798	230801	2.76%	0.464%
49	9.859	3006	3019	3029	rBV3	120857	195644	2.34%	0.393%
50	9.966	3037	3052	3075	rVB3	581991	1077907	12.89%	2.166%
51	10.377	3162	3179	3189	rBV2	968887	1394216	16.68%	2.801%
52	10.788	3292	3306	3309	rBV10	70763	138787	1.66%	0.279%
53	10.859	3321	3328	3334	rVB2	163051	192048	2.30%	0.386%
54	10.901	3334	3341	3353	rVB3	127717	169735	2.03%	0.341%
55	10.989	3355	3368	3383	rVB	185916	277115	3.32%	0.557%
56	11.096	3392	3401	3406	rBV	621272	698206	8.35%	1.403%
57	11.125	3406	3410	3418	rVB	248979	276017	3.30%	0.555%
58	11.202	3418	3434	3443	rVB	319726	399475	4.78%	0.803%
59	11.313	3462	3468	3471	rBV2	83982	88158	1.05%	0.177%
60	11.338	3471	3476	3480	rVV	188565	192116	2.30%	0.386%
61	11.377	3480	3488	3501	rVB	6335145	7344406	87.86%	14.755%
62	11.539	3522	3538	3551	rBV	1000057	1176869	14.08%	2.364%
63	11.756	3598	3605	3607	rBV	188389	194224	2.32%	0.390%
64	11.775	3607	3611	3623	rVB	403701	468747	5.61%	0.942%
65	11.879	3626	3643	3651	rBV3	257460	352041	4.21%	0.707%
66	12.021	3677	3687	3690	rBV	135693	168896	2.02%	0.339%
67	12.044	3690	3694	3701	rVB3	175065	180572	2.16%	0.363%
68	12.225	3745	3750	3757	rVB2	192641	202056	2.42%	0.406%
69	12.271	3757	3764	3767	rBV3	78499	93298	1.12%	0.187%
70	12.296	3767	3772	3777	rVB2	129497	134869	1.61%	0.271%
71	12.407	3794	3806	3811	rBV3	90341	112333	1.34%	0.226%
72	12.507	3832	3837	3841	rBV4	149774	174700	2.09%	0.351%
73	12.546	3846	3849	3855	rVB2	103884	96240	1.15%	0.193%
74	12.591	3855	3863	3873	rBV2	168428	236842	2.83%	0.476%
75	12.672	3873	3888	3894	rBV7	109227	168775	2.02%	0.339%
76	12.827	3931	3936	3943	rVB2	184268	180883	2.16%	0.363%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042368.D
Acq On : 17 Apr 2025 21:12
Operator : SY/MD
Sample : Q1726-03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

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	12.918	3958	3964	3969	rBV	86571	91139	1.09%	0.183%
78	12.954	3969	3975	3982	rVB	117493	117399	1.40%	0.236%
79	13.229	4053	4060	4064	rBV2	85298	95357	1.14%	0.192%
80	13.387	4101	4109	4116	rVB2	283580	315796	3.78%	0.634%
81	13.727	4207	4214	4220	rBV3	99136	96258	1.15%	0.193%

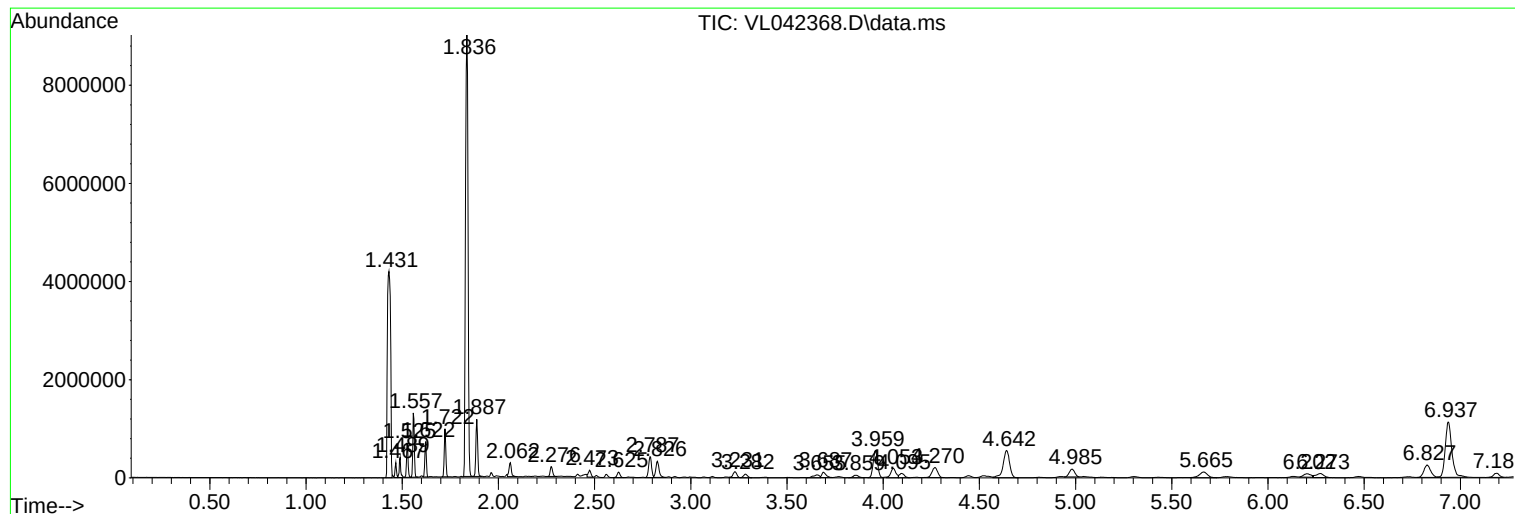
Sum of corrected areas: 49775117

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042368.D
Acq On : 17 Apr 2025 21:12
Operator : SY/MD
Sample : Q1726-03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

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 : VL042368.D
Acq On : 17 Apr 2025 21:12
Operator : SY/MD
Sample : Q1726-03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

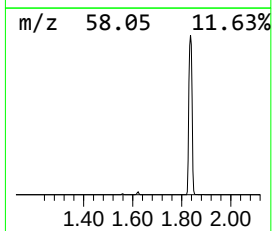
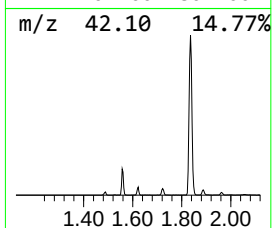
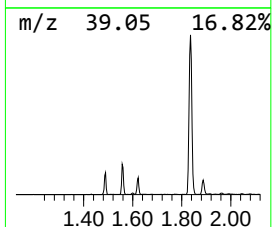
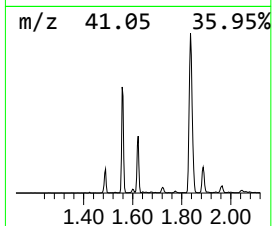
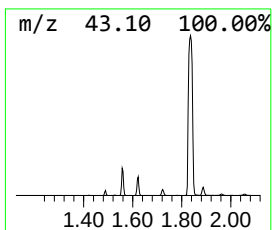
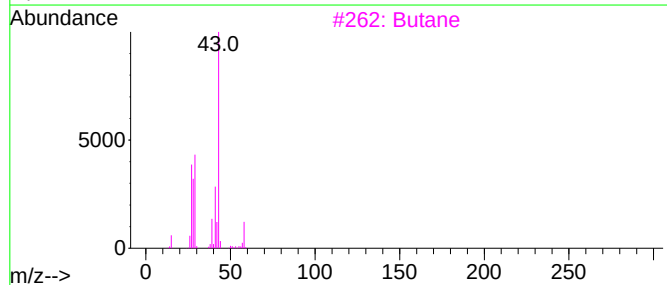
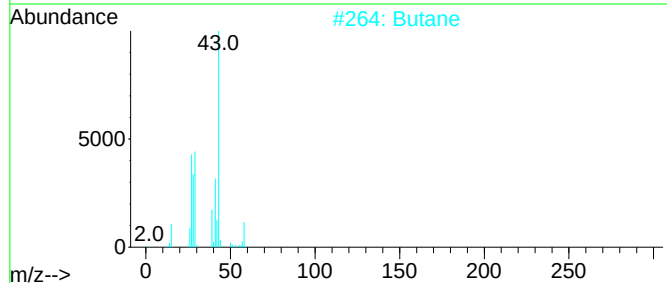
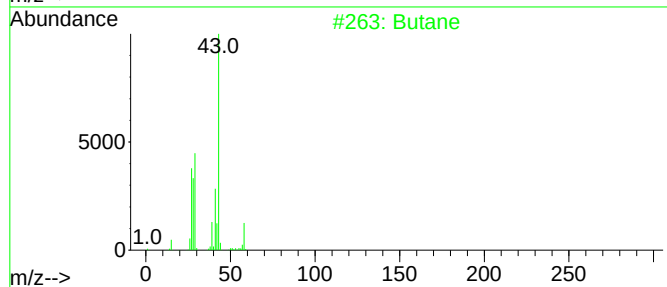
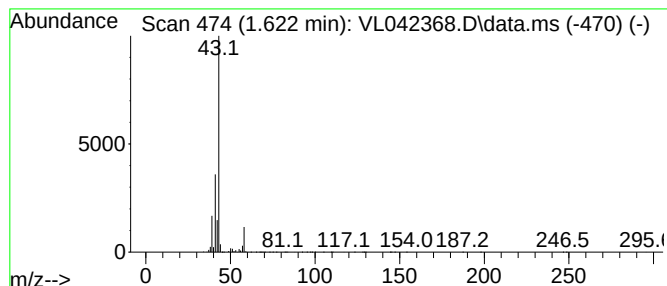
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 1 Butane Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.622	8.67 ppbv	384686	Bromochloromethane	2.787

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane			58	C4H10	000106-97-8	72
2	Butane			58	C4H10	000106-97-8	72
3	Butane			58	C4H10	000106-97-8	72
4	Butane			58	C4H10	000106-97-8	36
5	Isobutane			58	C4H10	000075-28-5	9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042368.D
Acq On : 17 Apr 2025 21:12
Operator : SY/MD
Sample : Q1726-03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

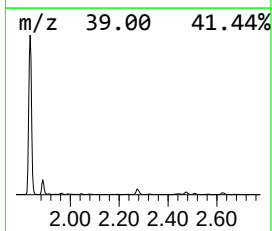
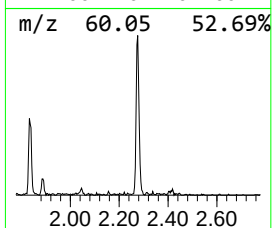
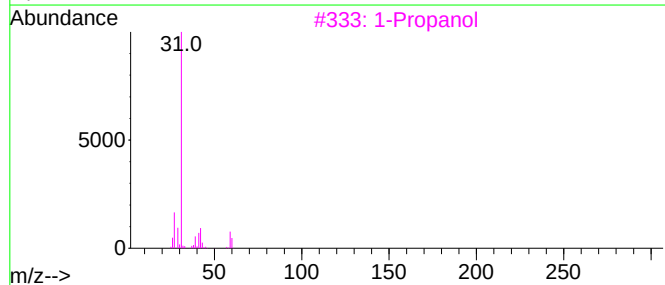
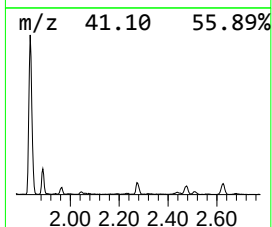
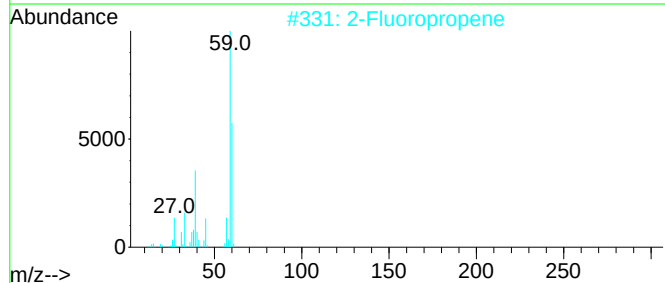
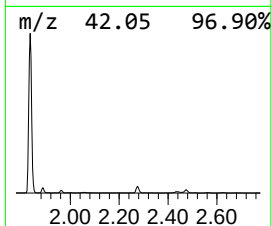
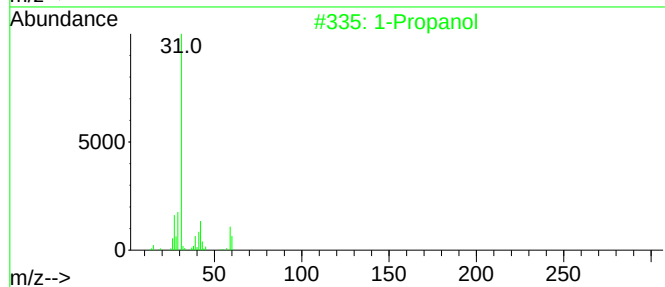
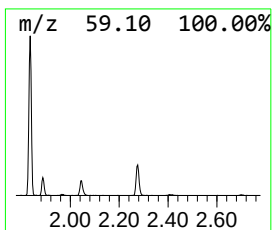
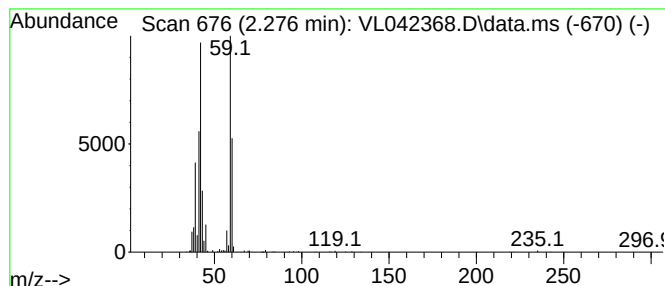
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 2 unknown2.276 Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.276	3.87 ppbv	171969	Bromochloromethane	2.787

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Propanol			60	C3H8O	000071-23-8	46
2	2-Fluoropropene			60	C3H5F	001184-60-7	43
3	1-Propanol			60	C3H8O	000071-23-8	42
4	1-Propanol			60	C3H8O	000071-23-8	37
5	Phosphoric triamide, N,N',N''-tr...			353	C9H24N9O4P	016221-25-3	33



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042368.D
Acq On : 17 Apr 2025 21:12
Operator : SY/MD
Sample : Q1726-03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

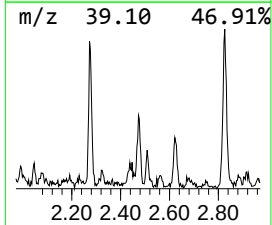
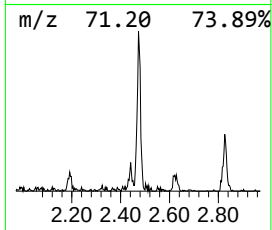
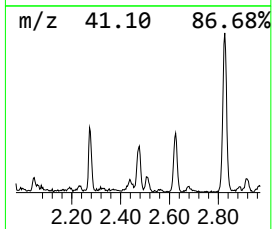
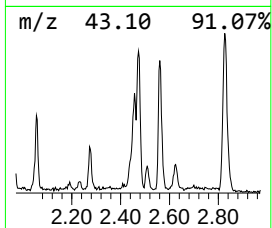
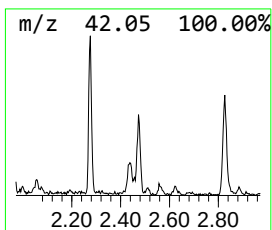
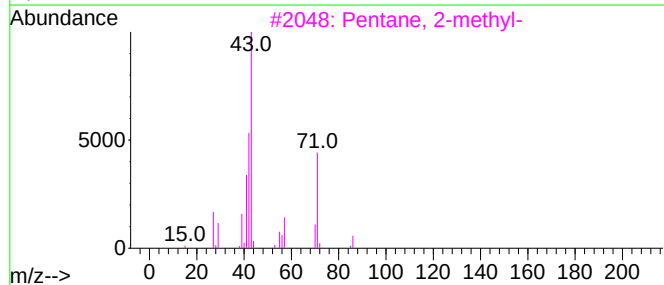
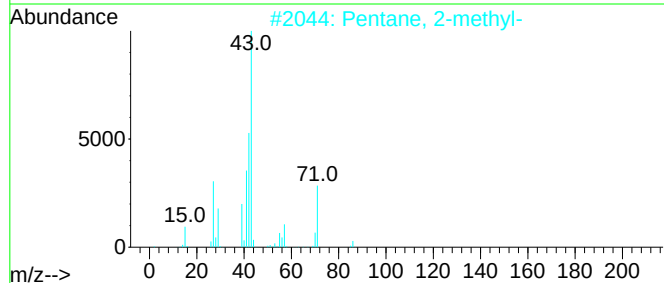
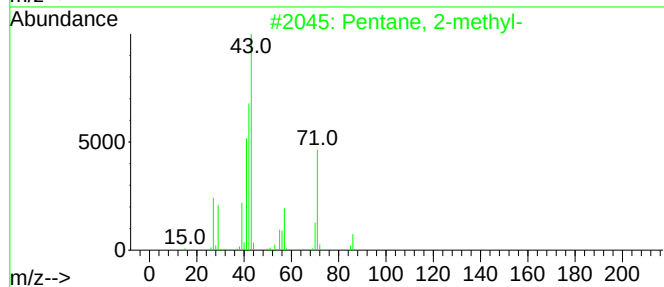
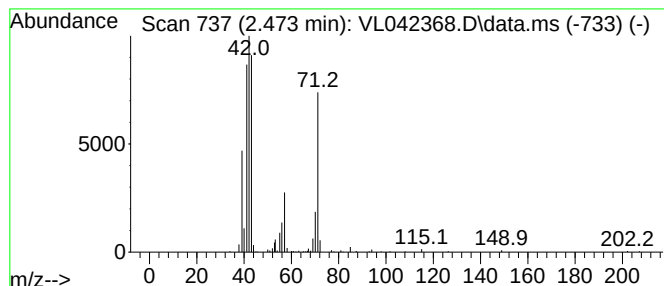
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 3 Pentane, 2-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.473	3.00 ppbv	132936	Bromochloromethane	2.787

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Pentane, 2-methyl-	86	C6H14	000107-83-5	59
2			Pentane, 2-methyl-	86	C6H14	000107-83-5	56
3			Pentane, 2-methyl-	86	C6H14	000107-83-5	53
4			Pentane, 2-methyl-	86	C6H14	000107-83-5	38
5			4,4-Dimethyl-1-hexene	112	C8H16	001647-08-1	35



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042368.D
Acq On : 17 Apr 2025 21:12
Operator : SY/MD
Sample : Q1726-03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

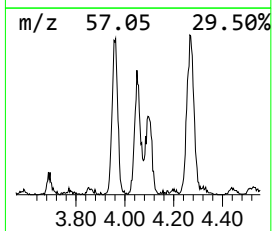
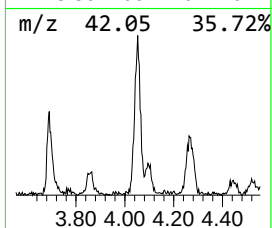
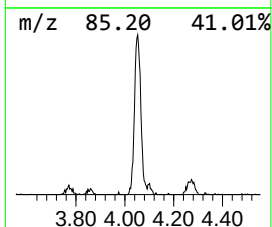
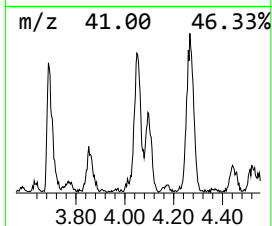
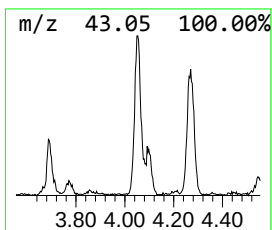
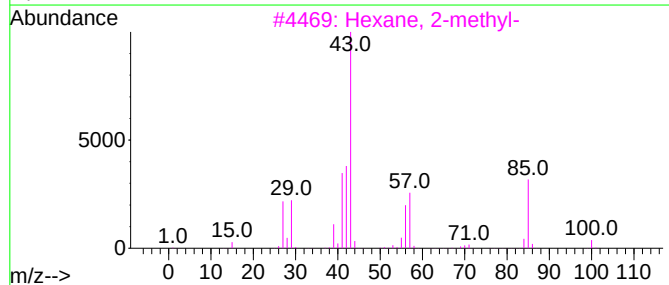
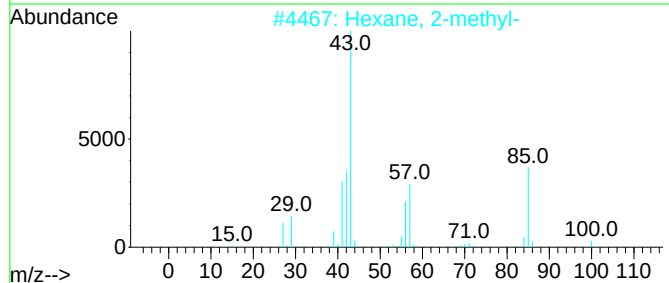
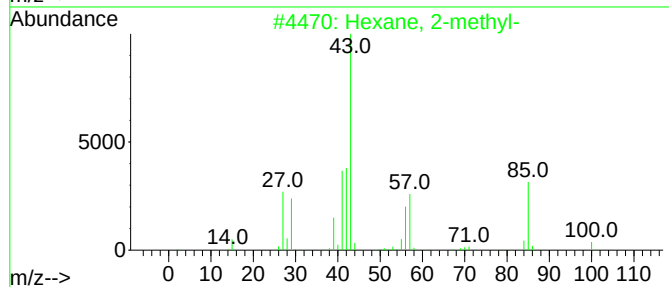
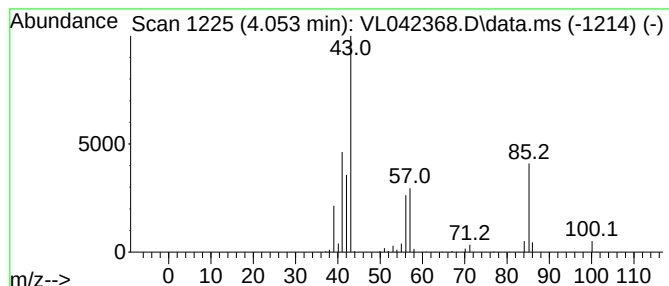
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.053	3.90 ppbv	350500	1,4-Difluorobenzene	3.962

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Hexane, 2-methyl-	100	C7H16	000591-76-4	87
2			Hexane, 2-methyl-	100	C7H16	000591-76-4	87
3			Hexane, 2-methyl-	100	C7H16	000591-76-4	58
4			Oxirane, 2-methyl-3-propyl-, cis-	100	C6H12O	006124-90-9	39
5			Pentane, 3-ethyl-2,4-dimethyl-	128	C9H20	001068-87-7	38



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042368.D
Acq On : 17 Apr 2025 21:12
Operator : SY/MD
Sample : Q1726-03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

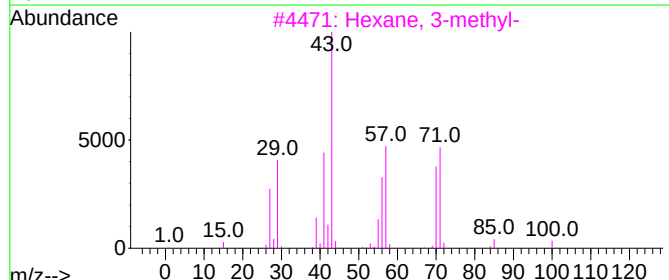
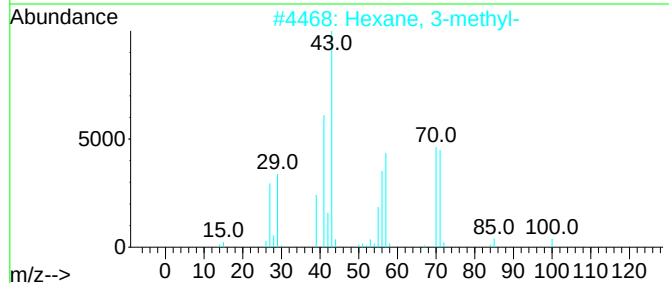
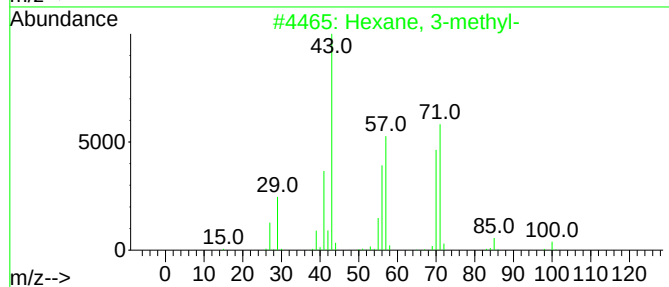
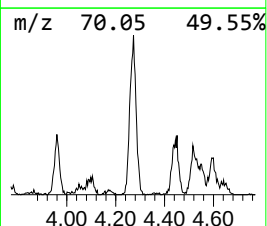
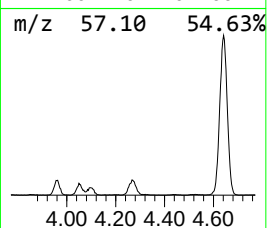
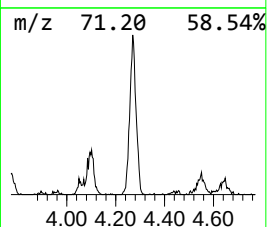
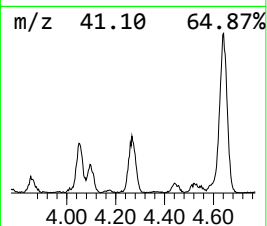
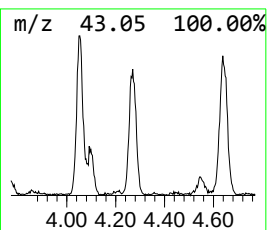
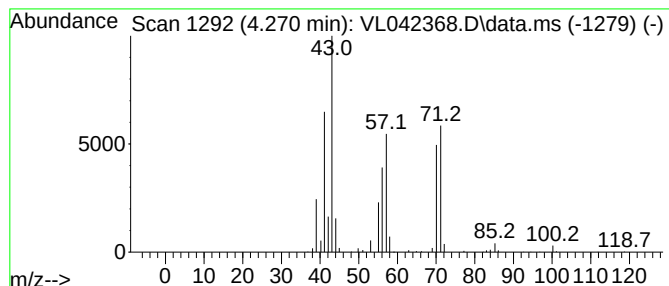
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 5 Hexane, 3-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.270	4.69 ppbv	421597	1,4-Difluorobenzene	3.962

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Hexane, 3-methyl-	100	C7H16	000589-34-4	87
2			Hexane, 3-methyl-	100	C7H16	000589-34-4	72
3			Hexane, 3-methyl-	100	C7H16	000589-34-4	72
4			Heptane	100	C7H16	000142-82-5	64
5			Hexane, 2,3-dimethyl-	114	C8H18	000584-94-1	53



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042368.D
Acq On : 17 Apr 2025 21:12
Operator : SY/MD
Sample : Q1726-03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

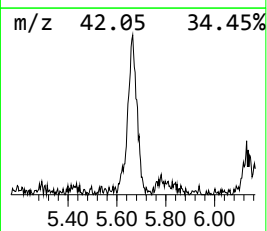
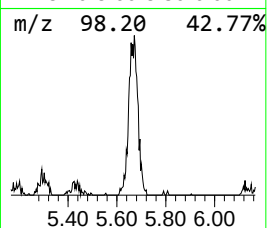
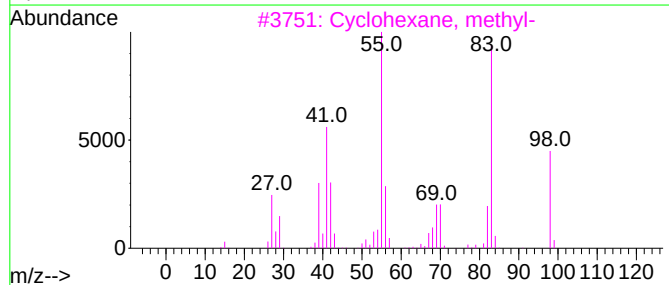
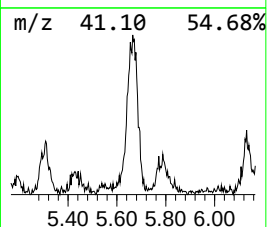
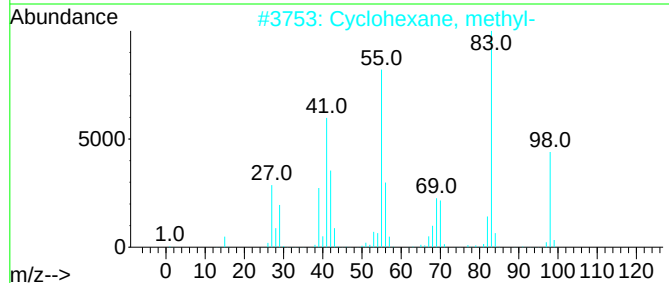
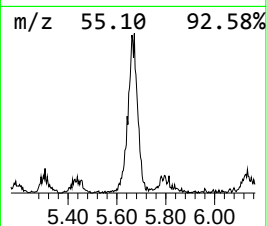
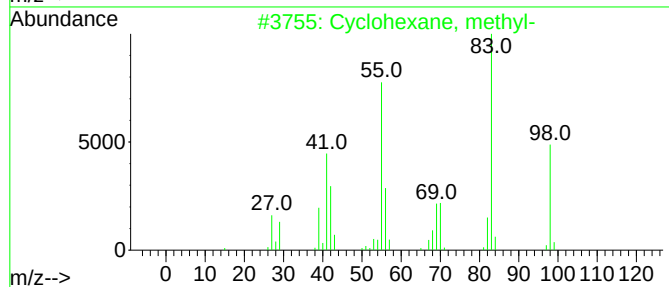
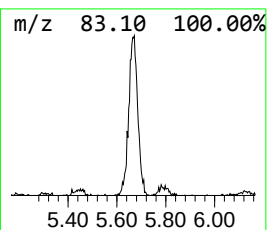
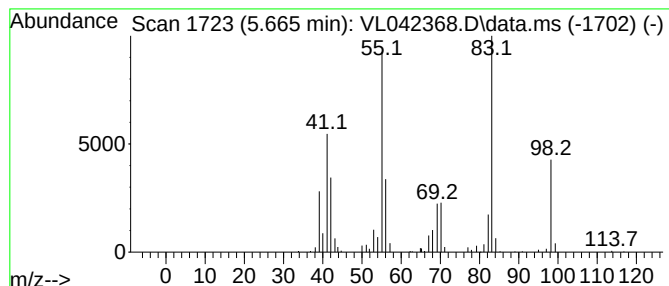
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 6 Cyclohexane, methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.665	3.71 ppbv	333648	1,4-Difluorobenzene	3.962

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		Cyclohexane, methyl-	98	C7H14	000108-87-2	97
2		Cyclohexane, methyl-	98	C7H14	000108-87-2	97
3		Cyclohexane, methyl-	98	C7H14	000108-87-2	96
4		Cyclohexane, methyl-	98	C7H14	000108-87-2	94
5		Cyclohexane, methyl-	98	C7H14	000108-87-2	91



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042368.D
Acq On : 17 Apr 2025 21:12
Operator : SY/MD
Sample : Q1726-03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

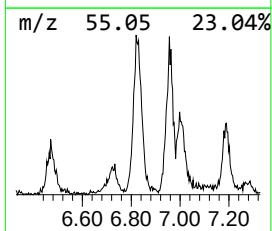
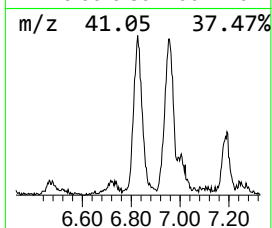
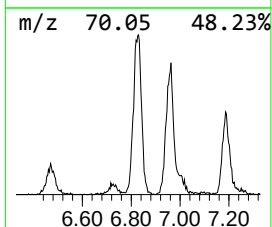
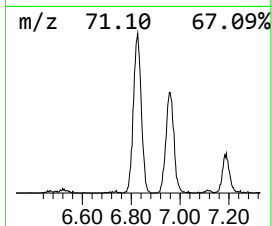
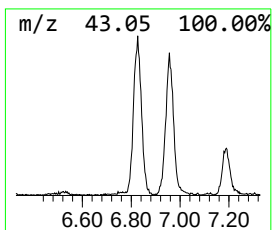
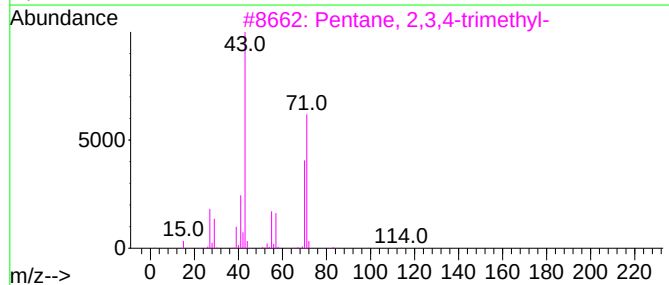
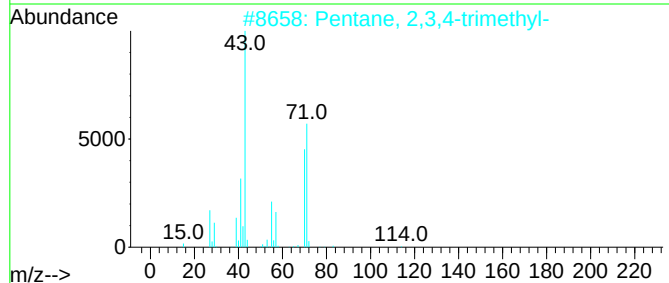
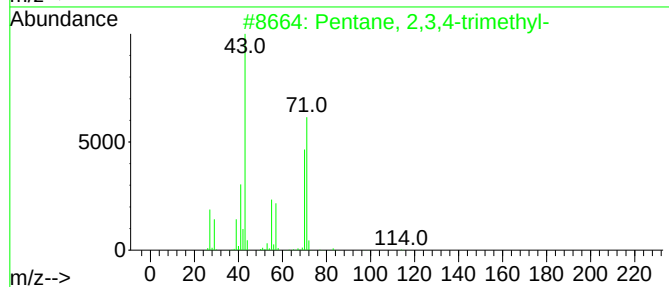
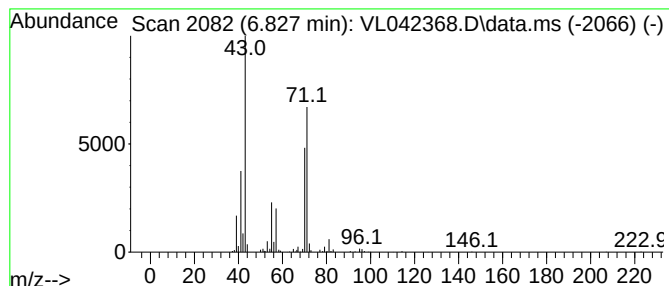
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 7 Pentane, 2,3,4-trimethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.827	5.57 ppbv	627320	Chlorobenzene-d5	8.882

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	90
2			Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	90
3			Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	86
4			Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	86
5			2,4,4-Trimethyl-1-hexene	126	C9H18	051174-12-0	72



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042368.D
Acq On : 17 Apr 2025 21:12
Operator : SY/MD
Sample : Q1726-03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

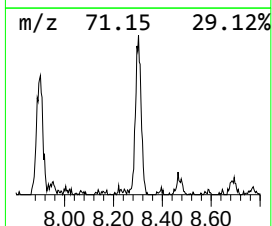
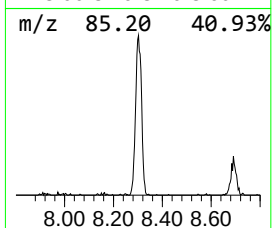
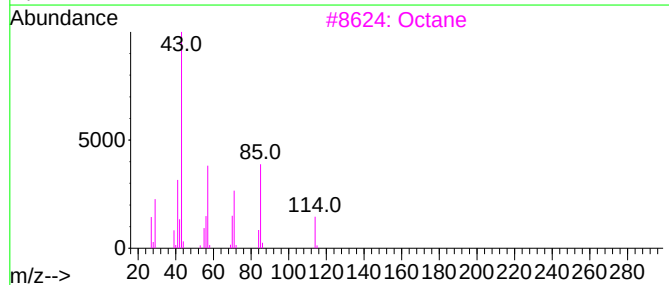
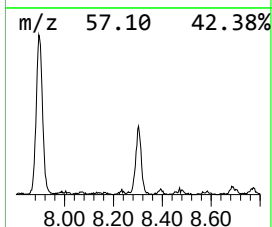
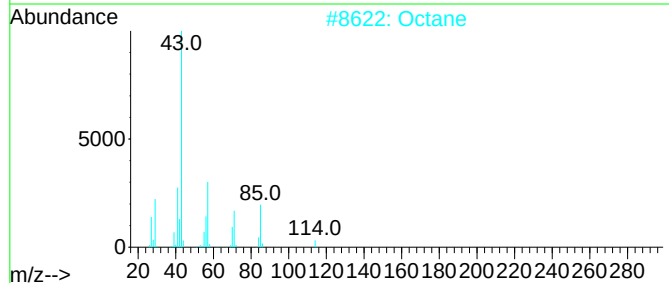
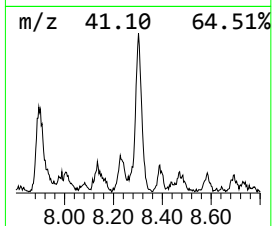
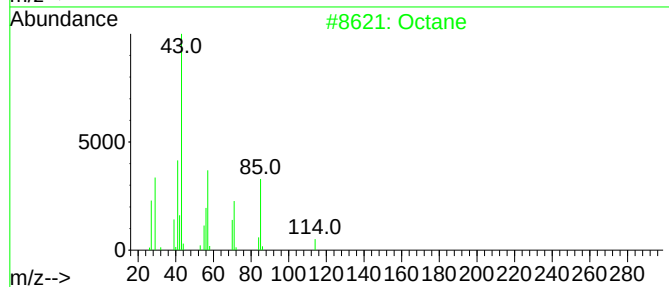
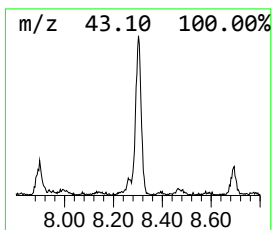
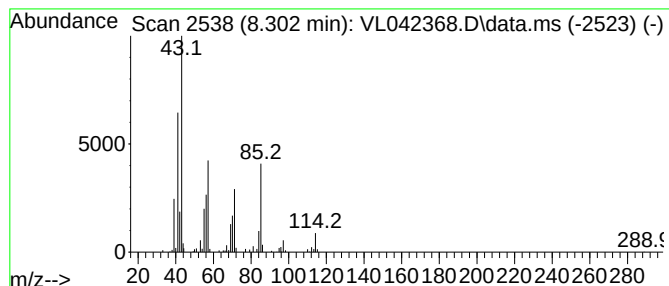
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 8 Octane Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.302	4.19 ppbv	471782	Chlorobenzene-d5	8.882

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane			114	C8H18	000111-65-9	90
2	Octane			114	C8H18	000111-65-9	87
3	Octane			114	C8H18	000111-65-9	80
4	Octane			114	C8H18	000111-65-9	76
5	Octane			114	C8H18	000111-65-9	68



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042368.D
Acq On : 17 Apr 2025 21:12
Operator : SY/MD
Sample : Q1726-03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

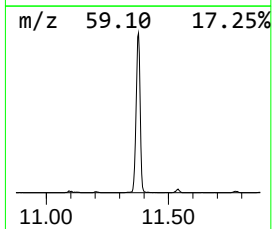
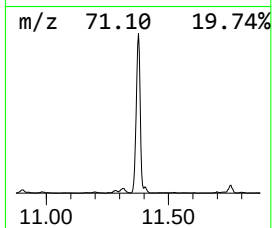
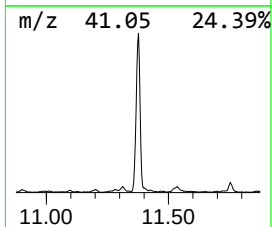
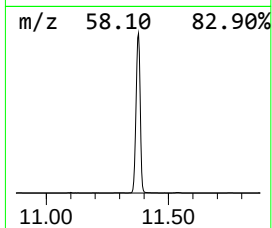
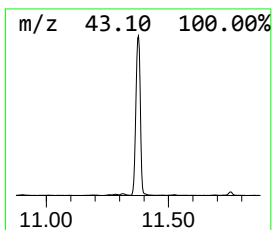
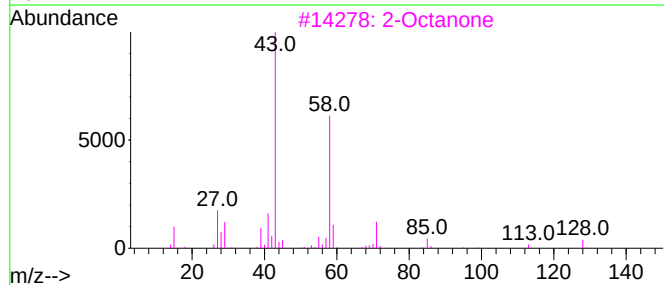
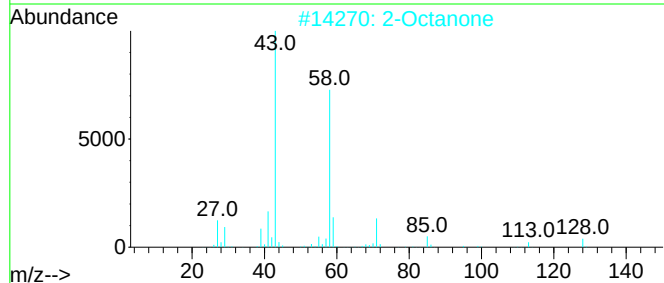
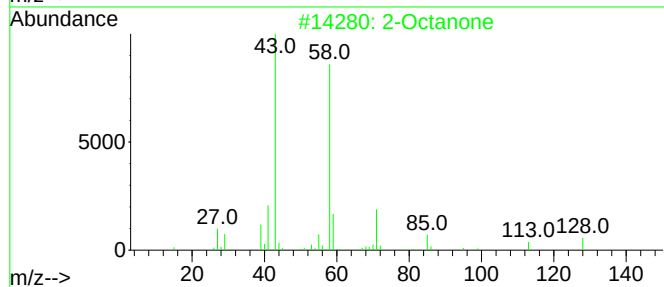
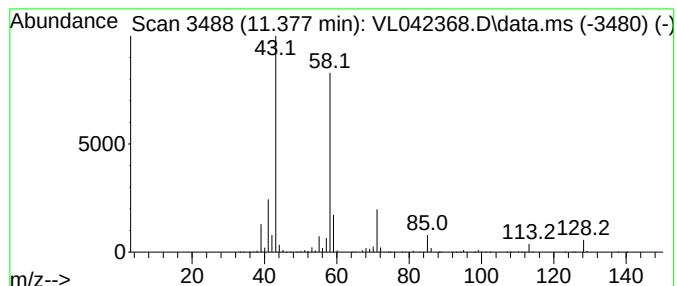
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

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 9 2-Octanone Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.	
11.377	65.27 ppbv	7344410	Chlorobenzene-d5	8.882	
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Octanone	128	C8H16O	000111-13-7	94
2	2-Octanone	128	C8H16O	000111-13-7	94
3	2-Octanone	128	C8H16O	000111-13-7	91
4	2-Octanone	128	C8H16O	000111-13-7	90
5	2-Octanone	128	C8H16O	000111-13-7	80



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042368.D
Acq On : 17 Apr 2025 21:12
Operator : SY/MD
Sample : Q1726-03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

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
Butane	1.622	8.7	ppbv	384686	1	2.787	443819	10.0
unknown2.276	2.276	3.9	ppbv	171969	1	2.787	443819	10.0
Pentane, 2-methyl-	2.473	3.0	ppbv	132936	1	2.787	443819	10.0
Hexane, 2-methyl-	4.053	3.9	ppbv	350500	2	3.962	898645	10.0
Hexane, 3-methyl-	4.270	4.7	ppbv	421597	2	3.962	898645	10.0
Cyclohexane, me...	5.665	3.7	ppbv	333648	2	3.962	898645	10.0
Pentane, 2,3,4-...	6.827	5.6	ppbv	627320	3	8.882	1125320	10.0
Octane	8.302	4.2	ppbv	471782	3	8.882	1125320	10.0
2-Octanone	11.377	65.3	ppbv	7344410	3	8.882	1125320	10.0

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-2-03312025DL	SDG No.:	Q1726
Lab Sample ID:	Q1726-03DL	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
VL042378.D	20		04/18/25 02:32	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	4.20	20.8	UD	20.8	49.5	ug/m3
64-17-5	Ethanol	270	509	DQ	12.1	18.8	ug/m3
74-87-3	Chloromethane	3.00	6.20	JD	4.13	20.6	ug/m3
75-01-4	Vinyl Chloride	0.28	0.72	UD	0.72	1.53	ug/m3
74-83-9	Bromomethane	2.80	10.9	UD	10.9	38.8	ug/m3
75-00-3	Chloroethane	3.40	8.97	UD	8.97	26.4	ug/m3
109-99-9	Tetrahydrofuran	2.60	7.67	UD	7.67	29.5	ug/m3
75-69-4	Trichlorofluoromethane	3.20	18.0	UD	18.0	56.2	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	3.20	24.5	UD	24.5	76.7	ug/m3
76-14-2	Dichlorotetrafluoroethane	1.80	12.6	UD	12.6	69.9	ug/m3
593-60-2	Bromoethene	2.40	10.5	UD	10.5	43.7	ug/m3
75-65-0	tert-Butyl alcohol	3.80	11.5	UD	11.5	30.3	ug/m3
142-82-5	Heptane	3.20	13.1	JD	9.02	41.0	ug/m3
67-63-0	Isopropyl Alcohol	49.2	121	D	3.44	24.6	ug/m3
75-35-4	1,1-Dichloroethene	2.80	11.1	UD	11.1	39.6	ug/m3
67-64-1	Acetone	850	2020	ED	11.4	23.8	ug/m3
75-15-0	Carbon Disulfide	3.20	9.97	UD	9.97	31.1	ug/m3
1634-04-4	Methyl tert-Butyl Ether	2.40	8.65	UD	8.65	36.0	ug/m3
75-09-2	Methylene Chloride	3.80	13.2	UD	13.2	34.7	ug/m3
156-60-5	trans-1,2-Dichloroethene	3.80	15.1	UD	15.1	39.6	ug/m3
75-34-3	1,1-Dichloroethane	2.60	10.5	UD	10.5	40.5	ug/m3
110-82-7	Cyclohexane	4.40	15.2	UD	15.2	34.4	ug/m3
78-93-3	2-Butanone	2.40	7.08	UD	7.08	29.5	ug/m3
56-23-5	Carbon Tetrachloride	0.22	1.38	UD	1.38	3.77	ug/m3
156-59-2	cis-1,2-Dichloroethene	1.80	7.14	UD	7.14	39.6	ug/m3
67-66-3	Chloroform	1.70	8.30	UD	8.30	48.8	ug/m3
71-55-6	1,1,1-Trichloroethane	0.19	1.04	UD	1.04	3.27	ug/m3
540-84-1	2,2,4-Trimethylpentane	7.80	36.4	JD	9.34	46.7	ug/m3
71-43-2	Benzene	1.70	5.43	UD	5.43	31.9	ug/m3
107-06-2	1,2-Dichloroethane	1.80	7.29	UD	7.29	40.5	ug/m3
79-01-6	Trichloroethene	0.34	1.83	UD	1.83	3.22	ug/m3
78-87-5	1,2-Dichloropropane	2.20	10.2	UD	10.2	46.2	ug/m3
75-27-4	Bromodichloromethane	1.50	10.1	UD	10.1	67.0	ug/m3
108-10-1	4-Methyl-2-Pentanone	1.90	7.79	UD	7.79	41.0	ug/m3
108-88-3	Toluene	17.8	67.1	D	8.29	37.7	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-2-03312025DL	SDG No.:	Q1726
Lab Sample ID:	Q1726-03DL	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
VL042378.D	20		04/18/25 02:32	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	1.20	5.45	UD	5.45	45.4	ug/m3
10061-01-5	cis-1,3-Dichloropropene	1.30	5.90	UD	5.90	45.4	ug/m3
79-00-5	1,1,2-Trichloroethane	1.40	7.64	UD	7.64	54.6	ug/m3
124-48-1	Dibromochloromethane	1.30	11.1	UD	11.1	85.2	ug/m3
106-93-4	1,2-Dibromoethane	1.40	10.8	UD	10.8	15.4	ug/m3
127-18-4	Tetrachloroethene	0.30	2.03	UD	2.03	4.07	ug/m3
108-90-7	Chlorobenzene	1.50	6.91	UD	6.91	46.0	ug/m3
100-41-4	Ethyl Benzene	3.50	15.2	JD	10.4	43.4	ug/m3
179601-23-1	m/p-Xylene	12.0	52.1	JD	18.2	86.9	ug/m3
95-47-6	o-Xylene	4.70	20.4	JD	10.4	43.4	ug/m3
100-42-5	Styrene	2.20	9.37	UD	9.37	42.6	ug/m3
75-25-2	Bromoform	1.10	11.4	UD	11.4	103	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.22	1.51	UD	1.51	4.12	ug/m3
95-49-8	2-Chlorotoluene	2.20	11.4	UD	11.4	51.8	ug/m3
108-67-8	1,3,5-Trimethylbenzene	2.20	10.8	UD	10.8	49.2	ug/m3
95-63-6	1,2,4-Trimethylbenzene	5.80	28.5	JD	7.87	49.2	ug/m3
541-73-1	1,3-Dichlorobenzene	1.60	9.62	UD	9.62	60.1	ug/m3
106-46-7	1,4-Dichlorobenzene	1.10	6.61	UD	6.61	60.1	ug/m3
95-50-1	1,2-Dichlorobenzene	1.50	9.02	UD	9.02	60.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	1.70	12.6	UD	12.6	74.2	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	1.70	18.1	UD	18.1	107	ug/m3
106-99-0	1,3-Butadiene	2.60	5.75	UD	5.75	22.1	ug/m3
91-20-3	Naphthalene	1.50	7.86	UD	7.86	10.5	ug/m3
622-96-8	4-Ethyltoluene	2.40	11.8	UD	11.8	49.2	ug/m3
110-54-3	Hexane	2.20	7.75	UD	7.75	35.2	ug/m3
107-05-1	Allyl Chloride	3.00	9.39	UD	9.39	31.3	ug/m3
123-91-1	1,4-Dioxane	4.20	15.1	UD	15.1	36.0	ug/m3
80-62-6	Methyl Methacrylate	1.70	6.96	UD	6.96	41.0	ug/m3

SURROGATES

460-00-4	1-Bromo-4-Fluorobenzene	10.3		70 (65) - 130 (135)	103%	SPK: 10
----------	-------------------------	------	--	---------------------	------	---------

INTERNAL STANDARDS

74-97-5	Bromochloromethane	92100	2.787
540-36-3	1,4-Difluorobenzene	266000	3.955
3114-55-4	Chlorobenzene-d5	229000	8.882

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-2-03312025DL	SDG No.:	Q1726
Lab Sample ID:	Q1726-03DL	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
VL042378.D	20		04/18/25 02:32	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 : VL042378.D
 Acq On : 18 Apr 2025 02:32
 Operator : SY/MD
 Sample : Q1726-03DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-2-03312025DL

Manual Integrations
 APPROVED

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

Quant Time: Apr 18 04:40:41 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	92120	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	265690	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	228865	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	194344	10.334	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.300%
Target Compounds						
					Qvalue	
4) Chloromethane	1.531	50	967	0.150	ppbv #	76
9) Propene	1.486	41	1814m	0.257	ppbv	
10) Heptane	4.988	43	3174m	0.160	ppbv	
13) Ethanol	1.722	45	14985	13.357	ppbv	75
15) Acetone	1.835	43	643033	42.641	ppbv	99
19) Isopropyl Alcohol	1.887	45	20625	2.462	ppbv #	1
34) 2-Butanone	2.564	43	2187	0.104	ppbv	92
44) 2,2,4-Trimethylpentane	4.638	57	19367m	0.391	ppbv	
53) Toluene	6.936	91	30658	0.891	ppbv	99
58) Ethyl Benzene	9.354	91	7859	0.173	ppbv	94
59) m/p-Xylene	9.532	91	21995m	0.602	ppbv	
60) o-Xylene	9.963	91	8584	0.233	ppbv	97
73) 1,3,5-Trimethylbenzene	11.209	105	4209m	0.106	ppbv	
74) 1,2,4-Trimethylbenzene	11.536	105	13380	0.289	ppbv #	60

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

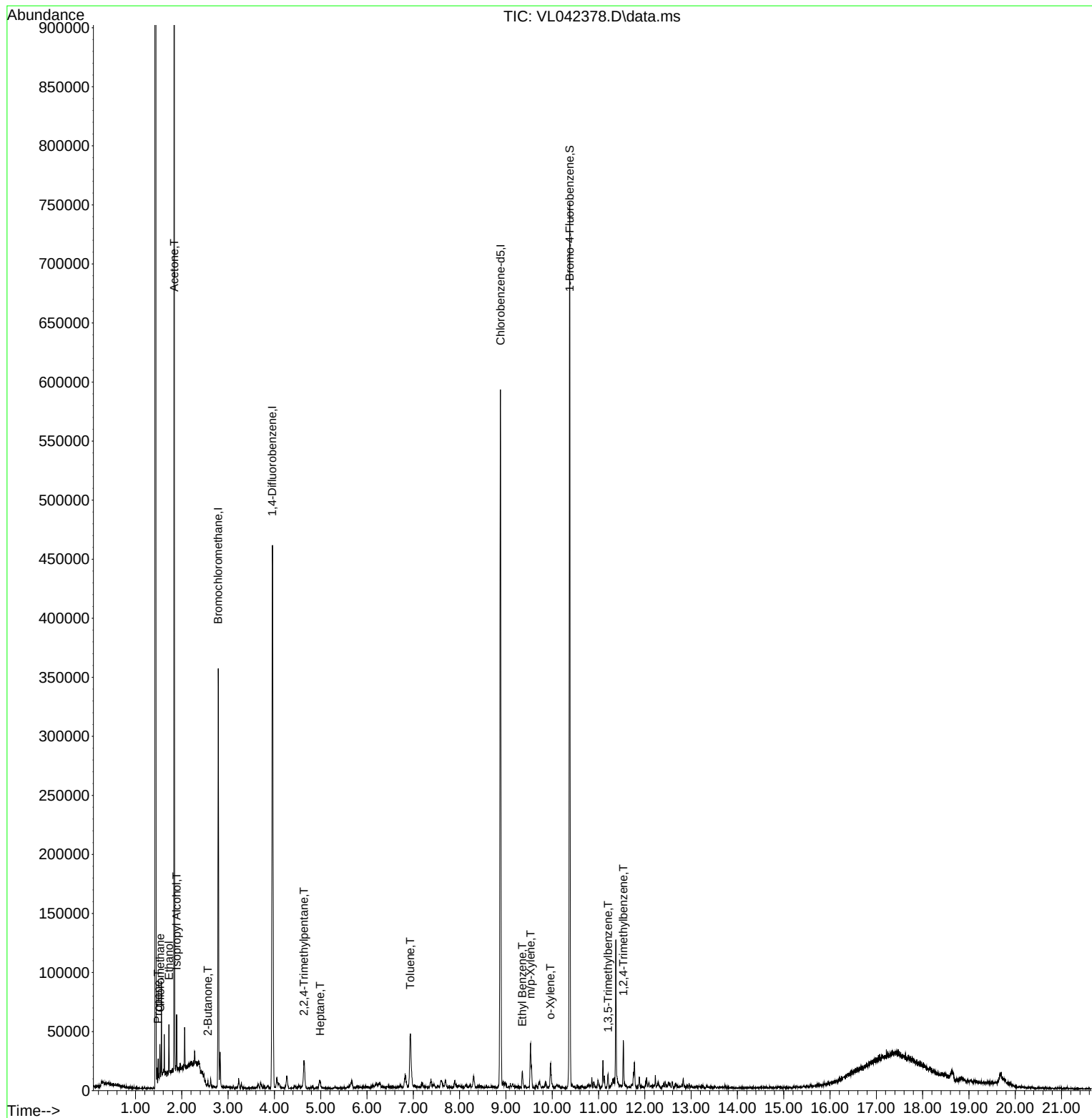
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042378.D
Acq On : 18 Apr 2025 02:32
Operator : SY/MD
Sample : Q1726-03DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

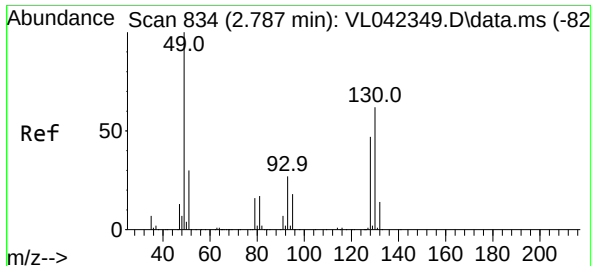
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025DL

Quant Time: Apr 18 04:40:41 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

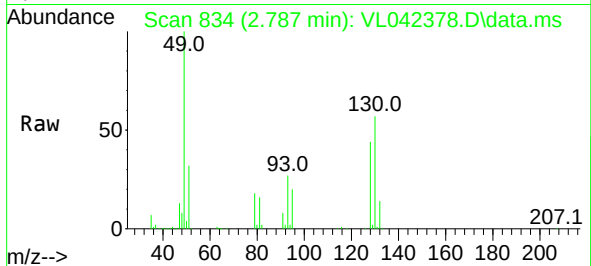
Reviewed By : Semsettin Yesilyurt 04/18/2025
Supervised By : Mahesh Dadoda 04/18/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 834
Delta R.T. -0.000 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32

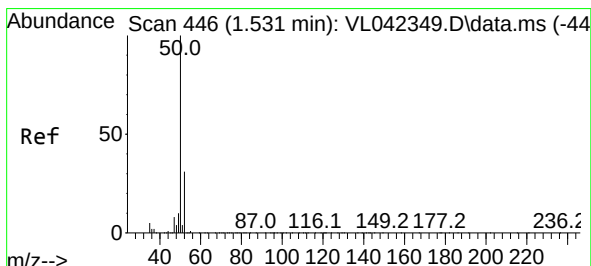
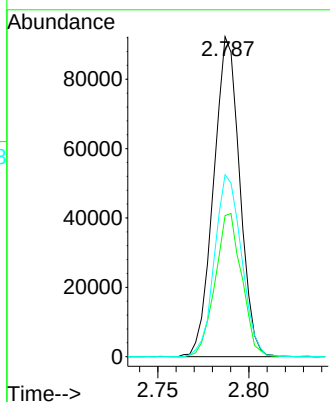
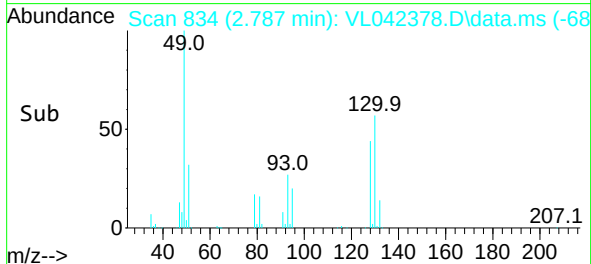
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025DL



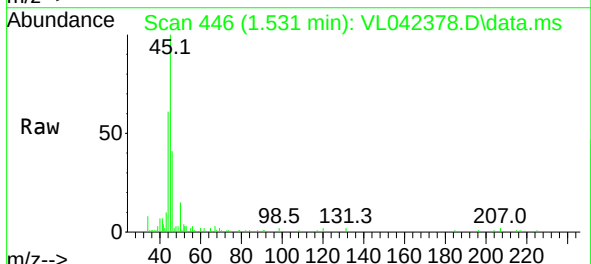
Tgt Ion: 49 Resp: 92120
Ion Ratio Lower Upper
49 100
128 45.5 22.8 68.4
130 58.7 29.3 88.0

Manual Integrations
APPROVED

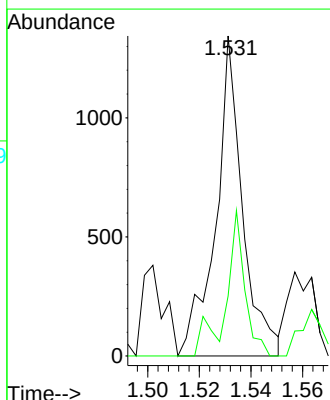
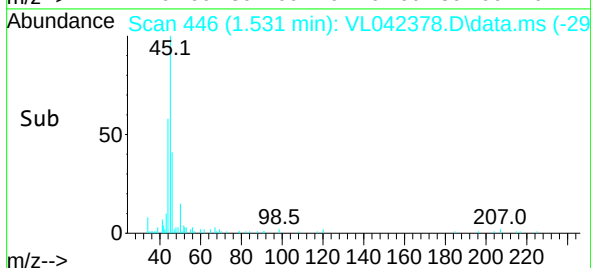
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

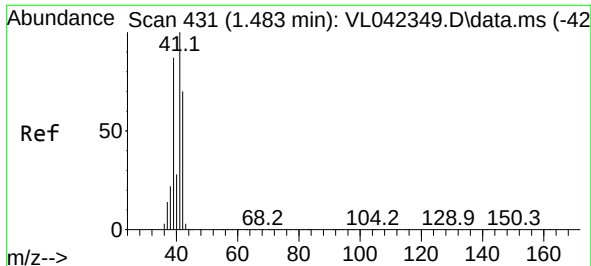


#4
Chloromethane
Concen: 0.150 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32



Tgt Ion: 50 Resp: 967
Ion Ratio Lower Upper
50 100
52 17.5 24.7 37.1#





#9

Propene

Concen: 0.257 ppbv m

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042378.D

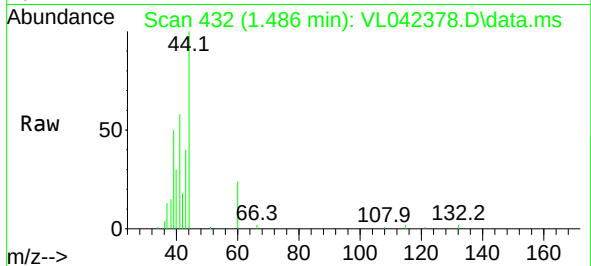
Acq: 18 Apr 2025 02:32

Instrument :

MSVOA_L

ClientSampleId :

IA-B2-2-03312025DL



Tgt Ion: 41 Resp: 1814

Ion Ratio Lower Upper

41 100

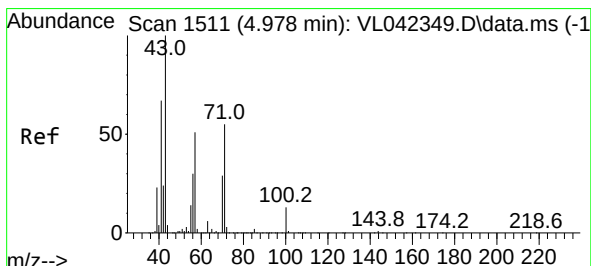
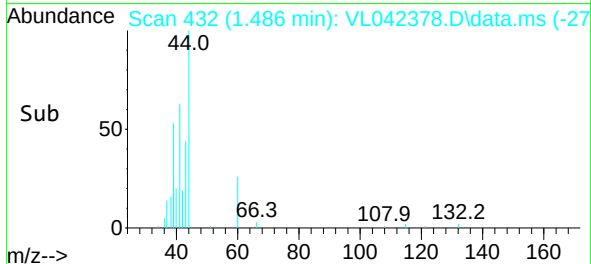
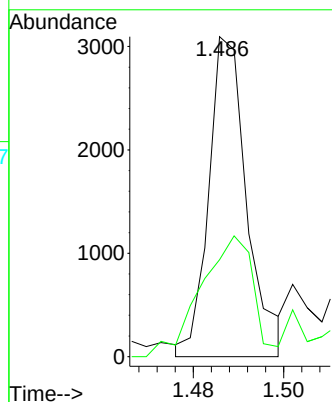
42 285.0 56.2 84.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#10

Heptane

Concen: 0.160 ppbv m

RT: 4.988 min Scan# 1514

Delta R.T. 0.010 min

Lab File: VL042378.D

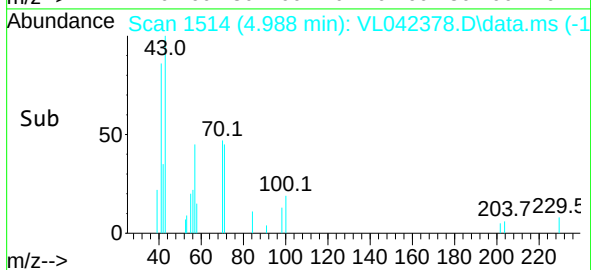
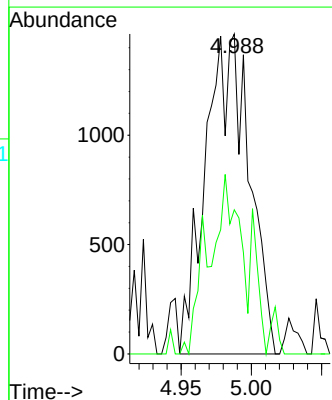
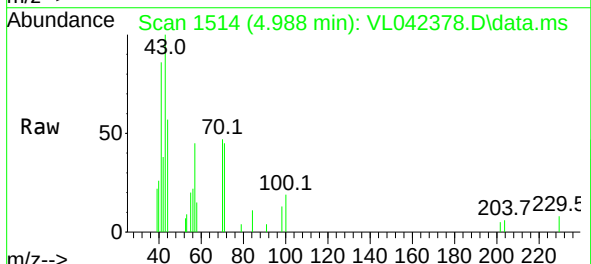
Acq: 18 Apr 2025 02:32

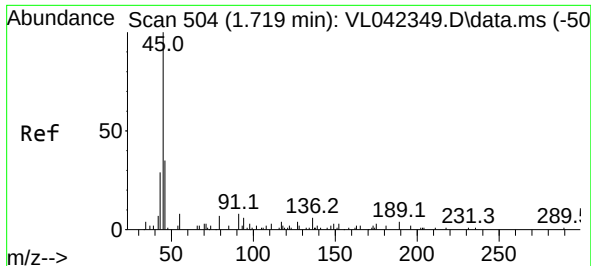
Tgt Ion: 43 Resp: 3174

Ion Ratio Lower Upper

43 100

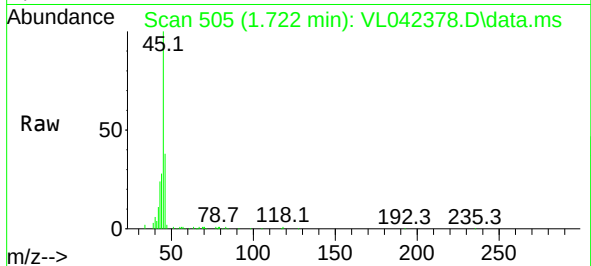
57 50.0 39.9 59.9





#13
Ethanol
Concen: 13.357 ppbv
RT: 1.722 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32

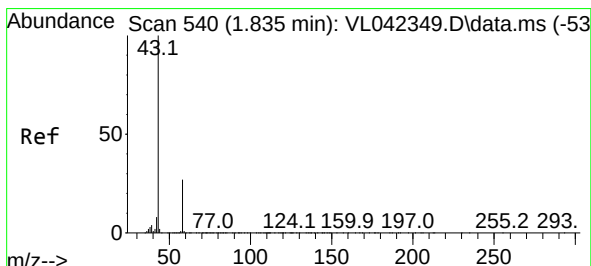
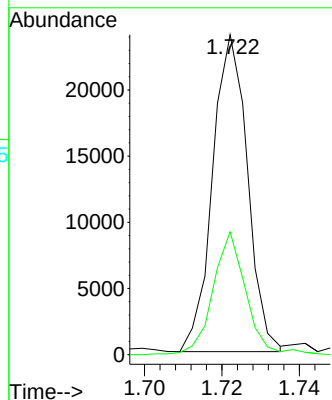
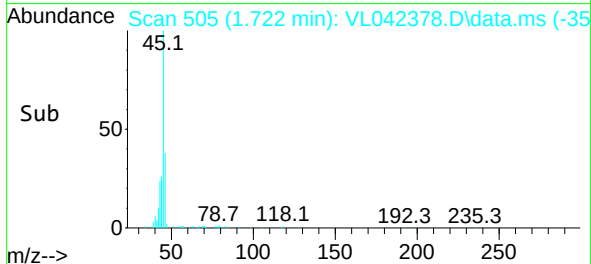
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025DL



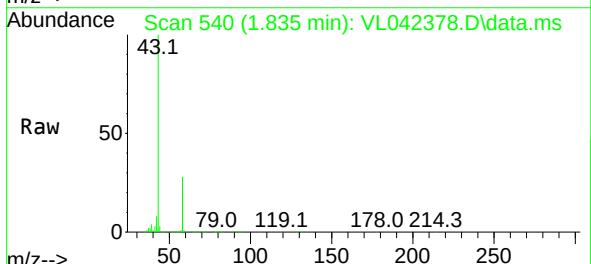
Tgt Ion: 45 Resp: 1498
Ion Ratio Lower Upper
45 100
46 36.7 21.9 87.7

Manual Integrations
APPROVED

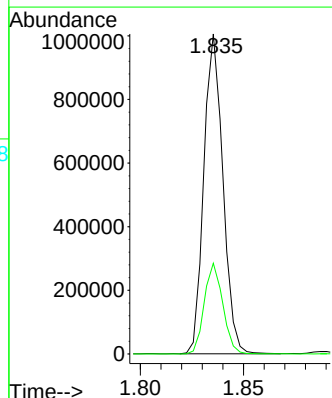
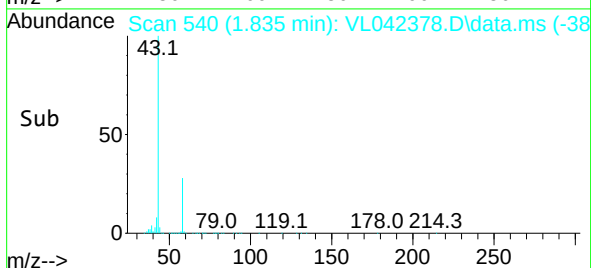
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

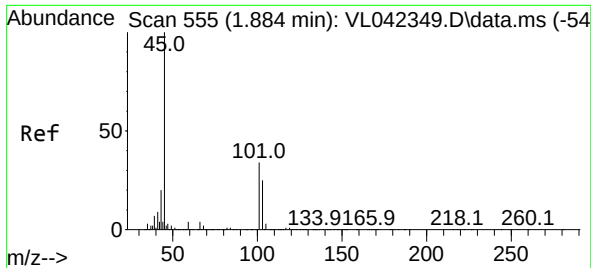


#15
Acetone
Concen: 42.641 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32



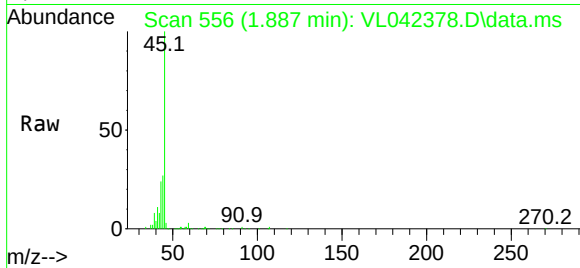
Tgt Ion: 43 Resp: 643033
Ion Ratio Lower Upper
43 100
58 27.6 22.4 33.6





#19
Isopropyl Alcohol
Concen: 2.462 ppbv
RT: 1.887 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32

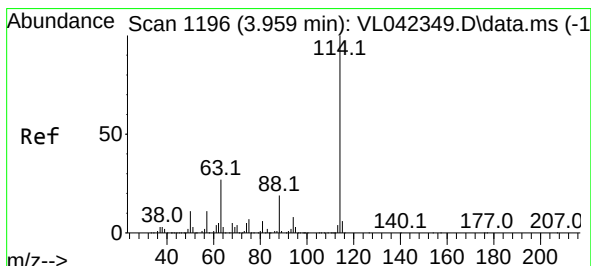
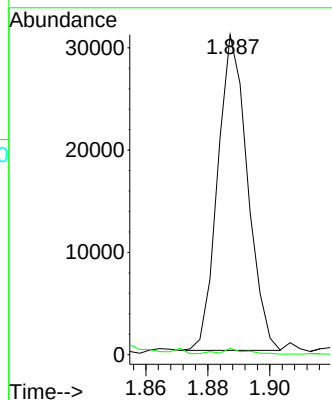
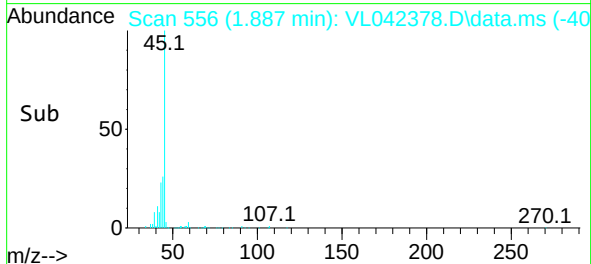
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025DL



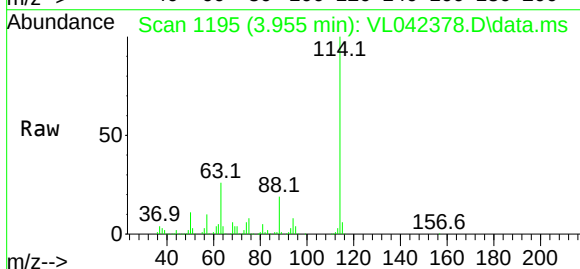
Tgt Ion: 45 Resp: 20625
Ion Ratio Lower Upper
45 100
58 861.8 34.5 51.7

Manual Integrations
APPROVED

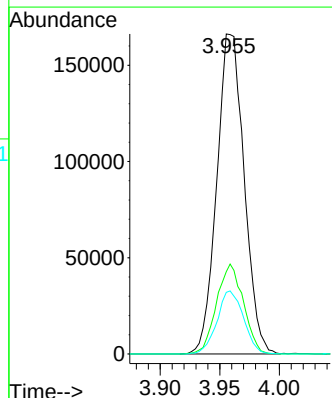
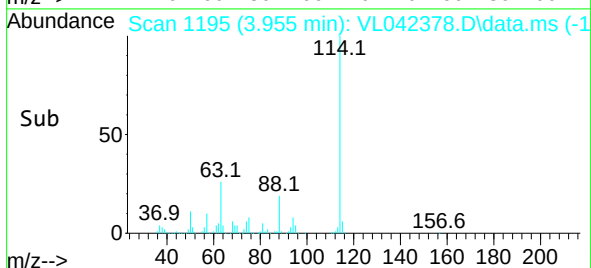
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

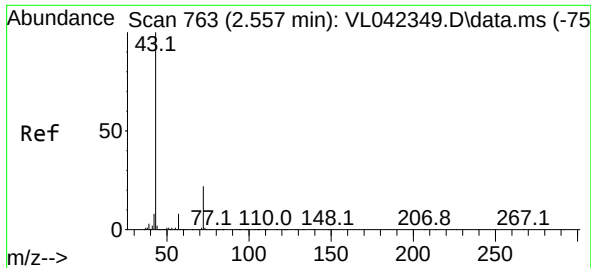


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. -0.003 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32



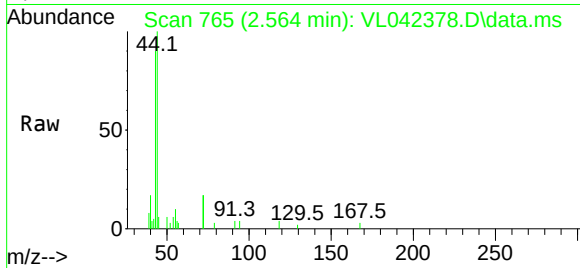
Tgt Ion:114 Resp: 265690
Ion Ratio Lower Upper
114 100
63 27.5 21.8 32.6
88 19.1 15.5 23.3





#34
2-Butanone
Concen: 0.104 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.006 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32

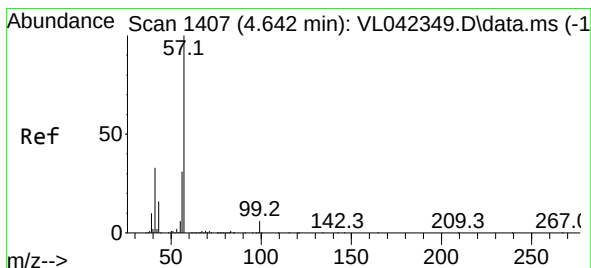
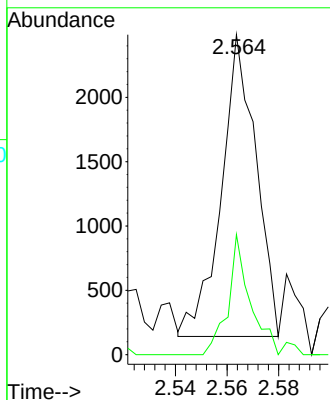
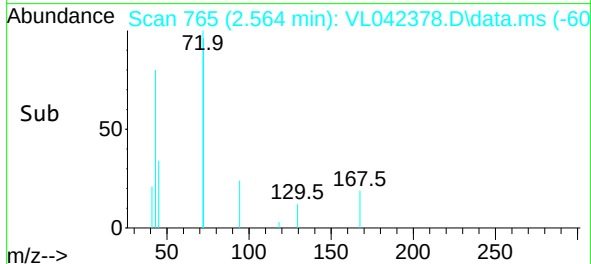
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025DL



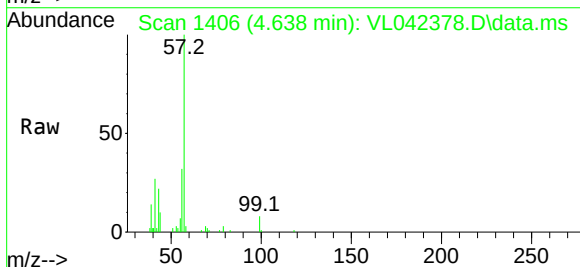
Tgt Ion: 43 Resp: 218
Ion Ratio Lower Upper
43 100
72 26.7 18.2 27.2

Manual Integrations
APPROVED

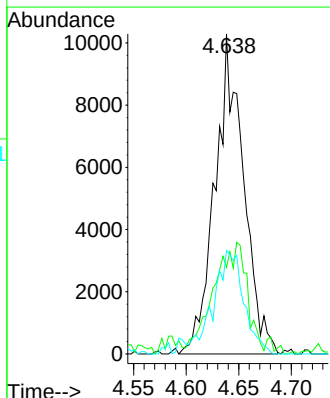
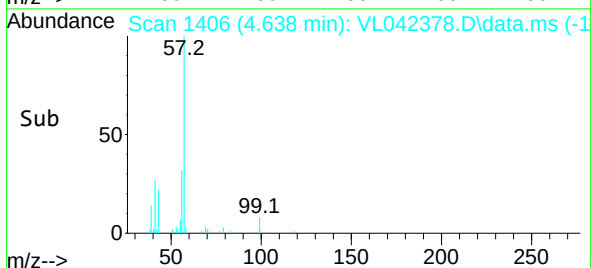
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

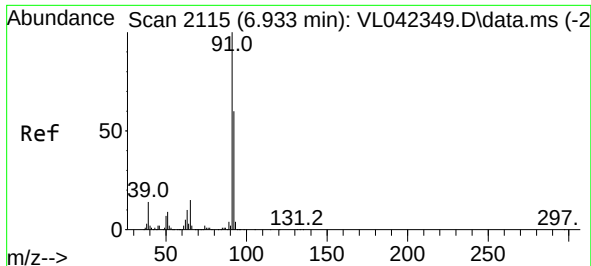


#44
2,2,4-Trimethylpentane
Concen: 0.391 ppbv m
RT: 4.638 min Scan# 1406
Delta R.T. -0.003 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32



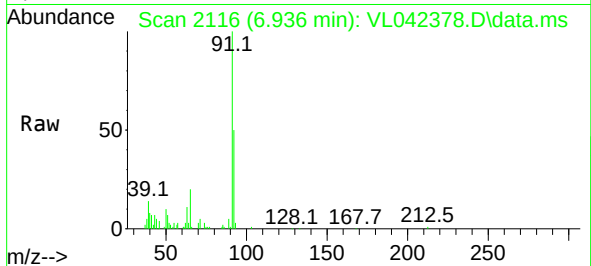
Tgt Ion: 57 Resp: 19367
Ion Ratio Lower Upper
57 100
41 0.0 27.2 40.8#
56 36.6 25.7 38.5





#53
Toluene
Concen: 0.891 ppbv
RT: 6.936 min Scan# 2116
Delta R.T. 0.003 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32

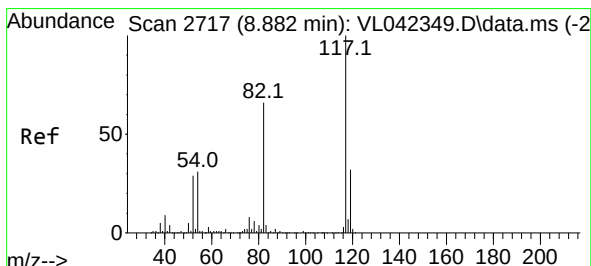
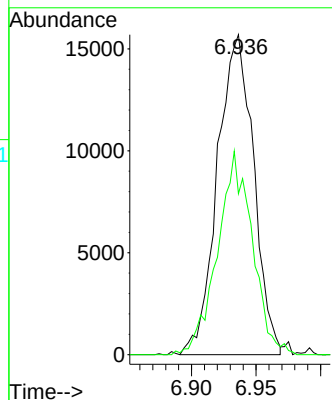
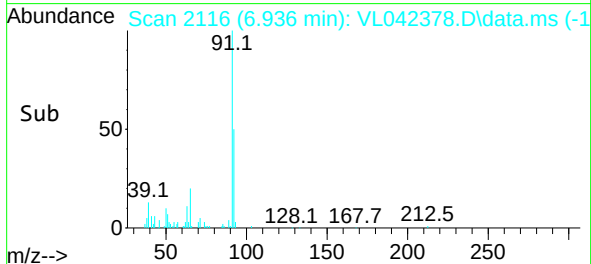
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025DL



Tgt Ion: 91 Resp: 30658
Ion Ratio Lower Upper
91 100
92 61.1 48.2 72.4

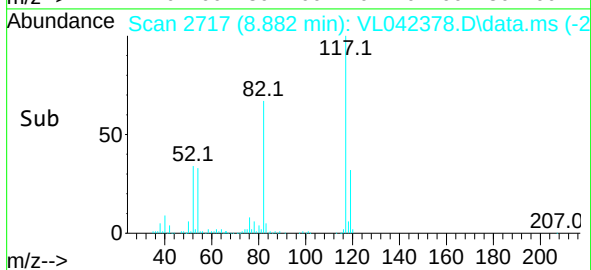
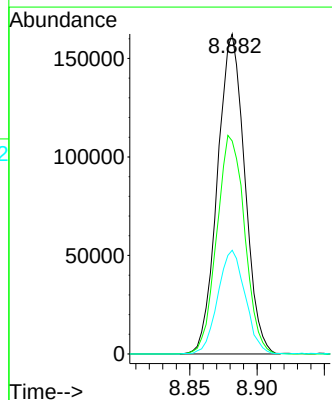
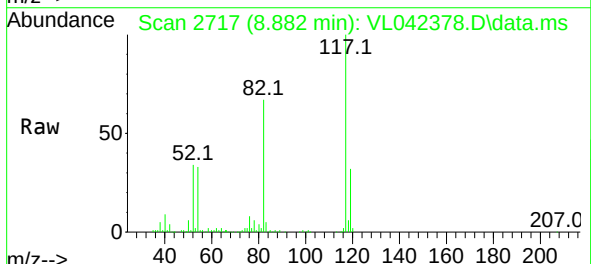
Manual Integrations
APPROVED

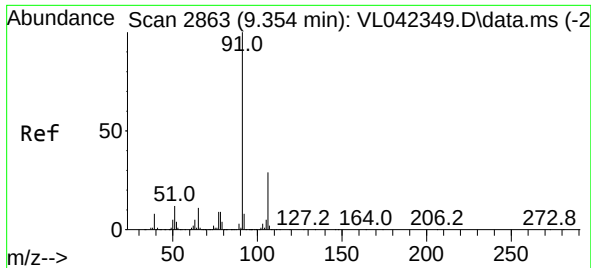
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2717
Delta R.T. -0.000 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32

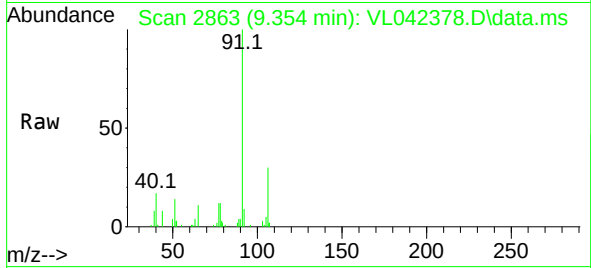
Tgt Ion:117 Resp: 228865
Ion Ratio Lower Upper
117 100
82 69.8 57.8 86.6
119 32.7 25.2 37.8





#58
Ethyl Benzene
Concen: 0.173 ppbv
RT: 9.354 min Scan# 2185
Delta R.T. -0.000 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32

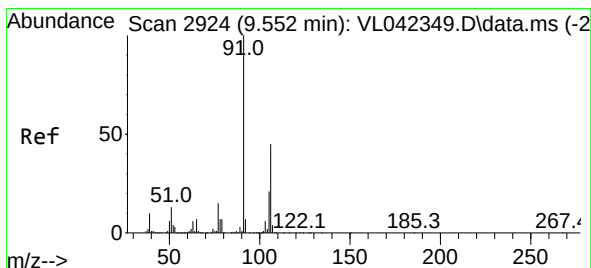
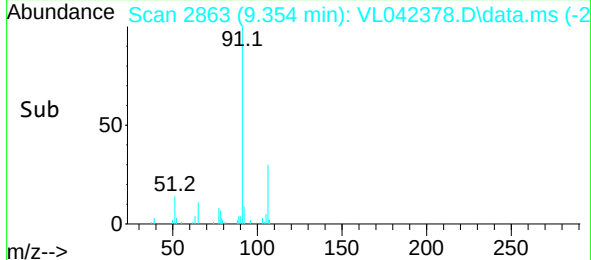
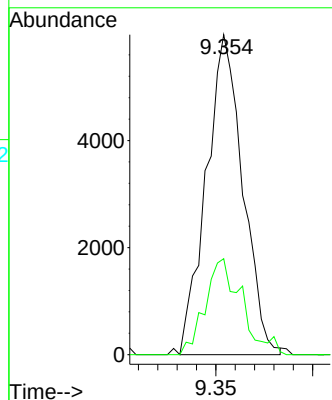
Instrument : MSVOA_L
ClientSampleId : IA-B2-2-03312025DL



Tgt Ion: 91 Resp: 7859
Ion Ratio Lower Upper
91 100
106 31.6 23.0 34.4

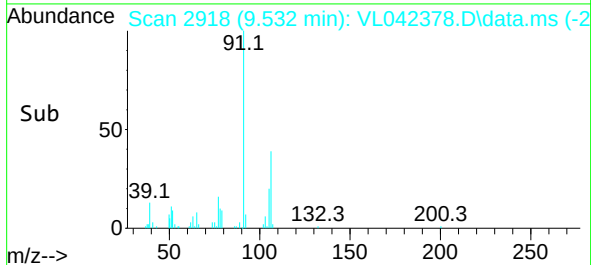
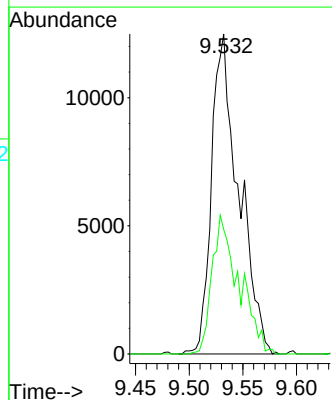
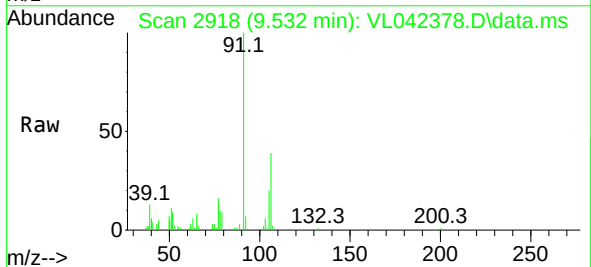
Manual Integrations
APPROVED

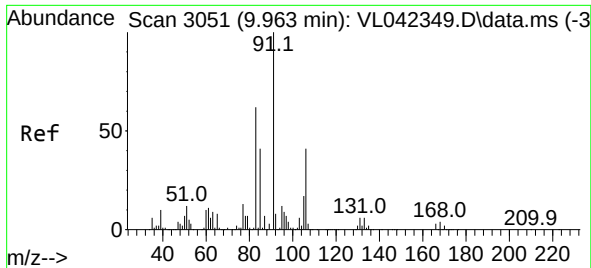
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#59
m/p-Xylene
Concen: 0.602 ppbv m
RT: 9.532 min Scan# 2918
Delta R.T. -0.019 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32

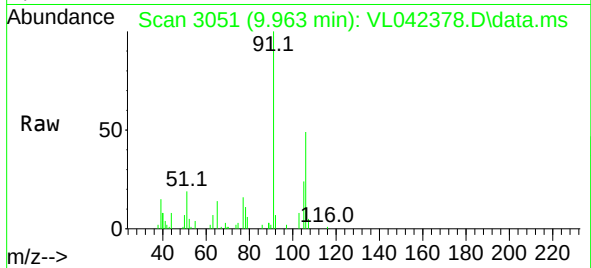
Tgt Ion: 91 Resp: 21995
Ion Ratio Lower Upper
91 100
106 0.0 35.4 53.2#





#60
o-Xylene
Concen: 0.233 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. -0.000 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32

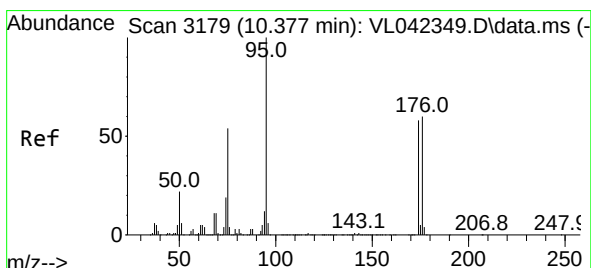
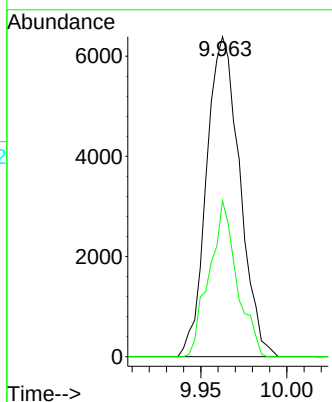
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025DL



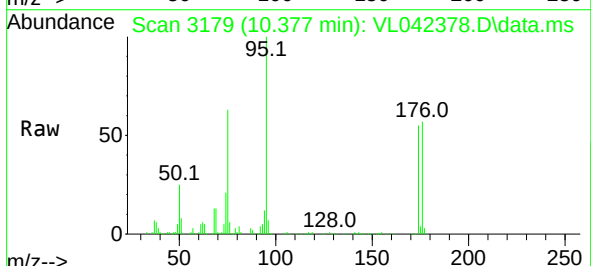
Tgt Ion: 91 Resp: 8584
Ion Ratio Lower Upper
91 100
106 40.6 21.1 63.4

Manual Integrations
APPROVED

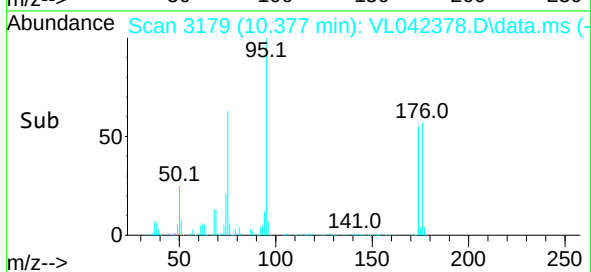
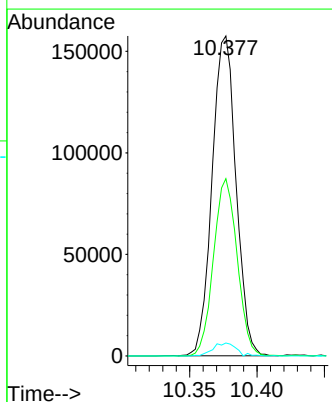
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

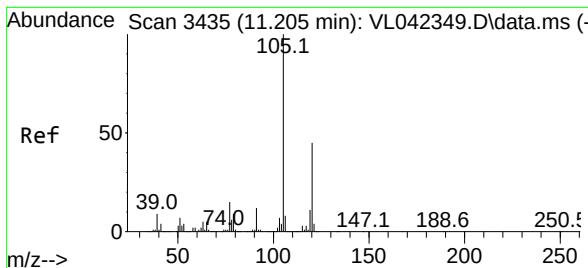


#68
1-Bromo-4-Fluorobenzene
Concen: 10.334 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. -0.000 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32



Tgt Ion: 95 Resp: 194344
Ion Ratio Lower Upper
95 100
174 55.0 48.5 72.7
175 4.0 3.7 5.5





#73

1,3,5-Trimethylbenzene

Concen: 0.106 ppbv m

RT: 11.209 min Scan# 34

Delta R.T. 0.003 min

Lab File: VL042378.D

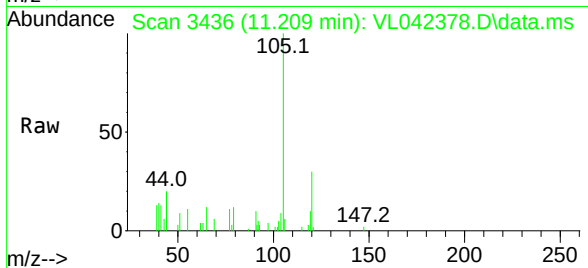
Acq: 18 Apr 2025 02:32

Instrument :

MSVOA_L

ClientSampleId :

IA-B2-2-03312025DL



Tgt Ion:105 Resp: 4209

Ion Ratio Lower Upper

105 100

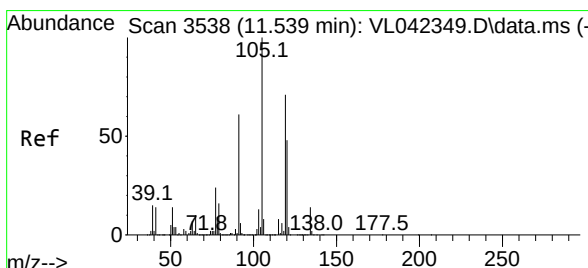
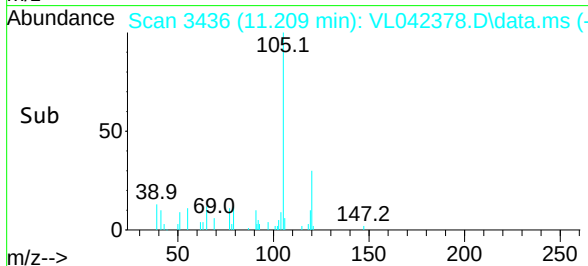
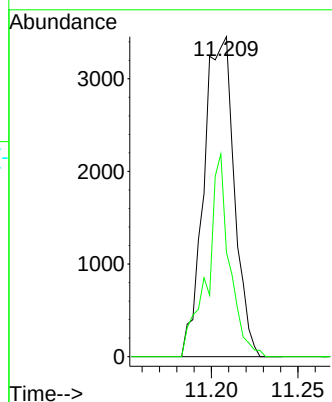
120 30.1 35.6 53.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#74

1,2,4-Trimethylbenzene

Concen: 0.289 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. -0.003 min

Lab File: VL042378.D

Acq: 18 Apr 2025 02:32

Tgt Ion:105 Resp: 13380

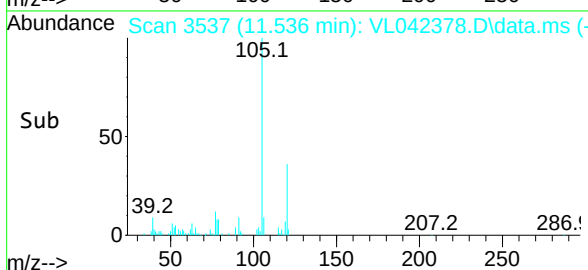
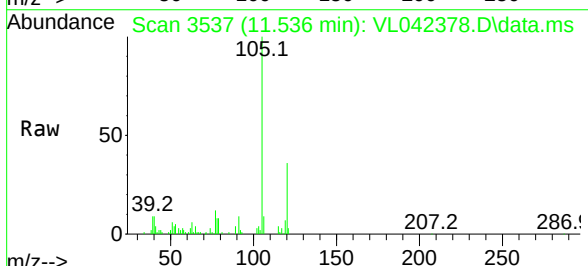
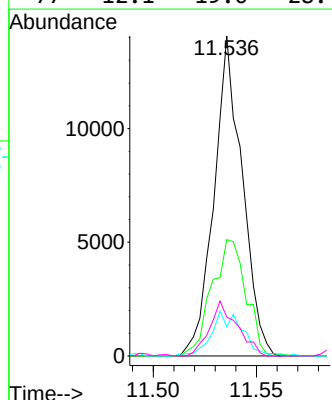
Ion Ratio Lower Upper

105 100

120 39.2 38.1 57.1

91 8.5 48.8 73.2#

77 12.1 19.0 28.4#



Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-2-03312025DL2	SDG No.:	Q1726
Lab Sample ID:	Q1726-03DL2	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
VL042390.D	100		04/18/25 14:14	VL041825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	21.0	104	UD	104	247	ug/m3
64-17-5	Ethanol	250	471	DQ	60.3	94.2	ug/m3
74-87-3	Chloromethane	9.80	20.2	UD	20.2	103	ug/m3
75-01-4	Vinyl Chloride	1.40	3.58	UD	3.58	7.67	ug/m3
74-83-9	Bromomethane	14.0	54.4	UD	54.4	194	ug/m3
75-00-3	Chloroethane	17.0	44.9	UD	44.9	132	ug/m3
109-99-9	Tetrahydrofuran	13.0	38.3	UDQ	38.3	147	ug/m3
75-69-4	Trichlorofluoromethane	16.0	89.9	UD	89.9	281	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	16.0	123	UD	123	383	ug/m3
76-14-2	Dichlorotetrafluoroethane	8.80	61.5	UD	61.5	349	ug/m3
593-60-2	Bromoethene	12.0	52.5	UD	52.5	219	ug/m3
75-65-0	tert-Butyl alcohol	19.0	57.6	UD	57.6	152	ug/m3
142-82-5	Heptane	11.0	45.1	UDQ	45.1	205	ug/m3
67-63-0	Isopropyl Alcohol	36.1	88.7	JD	17.0	123	ug/m3
75-35-4	1,1-Dichloroethene	14.0	55.5	UD	55.5	198	ug/m3
67-64-1	Acetone	610	1450	D	57.0	119	ug/m3
75-15-0	Carbon Disulfide	16.0	49.8	UD	49.8	156	ug/m3
1634-04-4	Methyl tert-Butyl Ether	12.0	43.3	UD	43.3	180	ug/m3
75-09-2	Methylene Chloride	19.0	66.0	UD	66.0	174	ug/m3
156-60-5	trans-1,2-Dichloroethene	19.0	75.3	UD	75.3	198	ug/m3
75-34-3	1,1-Dichloroethane	13.0	52.6	UD	52.6	202	ug/m3
110-82-7	Cyclohexane	22.0	75.7	UD	75.7	172	ug/m3
78-93-3	2-Butanone	12.0	35.4	UD	35.4	147	ug/m3
56-23-5	Carbon Tetrachloride	1.10	6.92	UD	6.92	18.9	ug/m3
156-59-2	cis-1,2-Dichloroethene	8.90	35.3	UD	35.3	198	ug/m3
67-66-3	Chloroform	8.30	40.5	UD	40.5	244	ug/m3
71-55-6	1,1,1-Trichloroethane	0.95	5.18	UD	5.18	16.4	ug/m3
540-84-1	2,2,4-Trimethylpentane	10.0	46.7	UD	46.7	234	ug/m3
71-43-2	Benzene	8.70	27.8	UD	27.8	160	ug/m3
107-06-2	1,2-Dichloroethane	9.10	36.8	UD	36.8	202	ug/m3
79-01-6	Trichloroethene	1.70	9.14	UD	9.14	16.1	ug/m3
78-87-5	1,2-Dichloropropane	11.0	50.8	UD	50.8	231	ug/m3
75-27-4	Bromodichloromethane	7.70	51.6	UD	51.6	335	ug/m3
108-10-1	4-Methyl-2-Pentanone	9.30	38.1	UD	38.1	205	ug/m3
108-88-3	Toluene	11.4	43.0	JD	41.5	188	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-2-03312025DL2	SDG No.:	Q1726
Lab Sample ID:	Q1726-03DL2	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
VL042390.D	100		04/18/25 14:14	VL041825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	6.00	27.2	UD	27.2	227	ug/m3
10061-01-5	cis-1,3-Dichloropropene	6.40	29.1	UD	29.1	227	ug/m3
79-00-5	1,1,2-Trichloroethane	7.10	38.7	UD	38.7	273	ug/m3
124-48-1	Dibromochloromethane	6.60	56.2	UD	56.2	426	ug/m3
106-93-4	1,2-Dibromoethane	7.20	55.3	UD	55.3	76.8	ug/m3
127-18-4	Tetrachloroethene	1.50	10.2	UD	10.2	20.3	ug/m3
108-90-7	Chlorobenzene	7.60	35.0	UD	35.0	230	ug/m3
100-41-4	Ethyl Benzene	12.0	52.1	UD	52.1	217	ug/m3
179601-23-1	m/p-Xylene	21.0	91.2	UD	91.2	434	ug/m3
95-47-6	o-Xylene	12.0	52.1	UD	52.1	217	ug/m3
100-42-5	Styrene	11.0	46.8	UD	46.8	213	ug/m3
75-25-2	Bromoform	5.70	58.9	UD	58.9	517	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	1.10	7.55	UD	7.55	20.6	ug/m3
95-49-8	2-Chlorotoluene	11.0	57.0	UD	57.0	259	ug/m3
108-67-8	1,3,5-Trimethylbenzene	11.0	54.1	UD	54.1	246	ug/m3
95-63-6	1,2,4-Trimethylbenzene	7.80	38.4	UD	38.4	246	ug/m3
541-73-1	1,3-Dichlorobenzene	8.00	48.1	UD	48.1	301	ug/m3
106-46-7	1,4-Dichlorobenzene	5.30	31.9	UD	31.9	301	ug/m3
95-50-1	1,2-Dichlorobenzene	7.50	45.1	UD	45.1	301	ug/m3
120-82-1	1,2,4-Trichlorobenzene	8.50	63.1	UD	63.1	371	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	8.50	90.7	UD	90.7	533	ug/m3
106-99-0	1,3-Butadiene	13.0	28.8	UD	28.8	111	ug/m3
91-20-3	Naphthalene	7.50	39.3	UD	39.3	52.4	ug/m3
622-96-8	4-Ethyltoluene	12.0	59.0	UD	59.0	246	ug/m3
110-54-3	Hexane	11.0	38.8	UD	38.8	176	ug/m3
107-05-1	Allyl Chloride	15.0	47.0	UD	47.0	157	ug/m3
123-91-1	1,4-Dioxane	21.0	75.7	UD	75.7	180	ug/m3
80-62-6	Methyl Methacrylate	8.60	35.2	UDQ	35.2	205	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	127000	2.79
540-36-3	1,4-Difluorobenzene	395000	3.962
3114-55-4	Chlorobenzene-d5	343000	8.885

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-2-03312025DL2	SDG No.:	Q1726
Lab Sample ID:	Q1726-03DL2	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
VL042390.D	100		04/18/25 14:14	VL041825

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\VL041825\
 Data File : VL042390.D
 Acq On : 18 Apr 2025 14:14
 Operator : SY/MD
 Sample : Q1726-03DL2 100X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-2-03312025DL2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2025
 Supervised By :Mahesh Dadoda 04/21/2025

Quant Time: Apr 18 22:59:21 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	2.790	49	127324	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	395389	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	342875	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	281379	9.987	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.900%
Target Compounds						
					Qvalue	
13) Ethanol	1.722	45	3867	2.494	ppbv #	24
15) Acetone	1.839	43	126935	6.090	ppbv	97
19) Isopropyl Alcohol	1.887	45	4184	0.361	ppbv #	1
53) Toluene	6.936	91	5816m	0.114	ppbv	

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

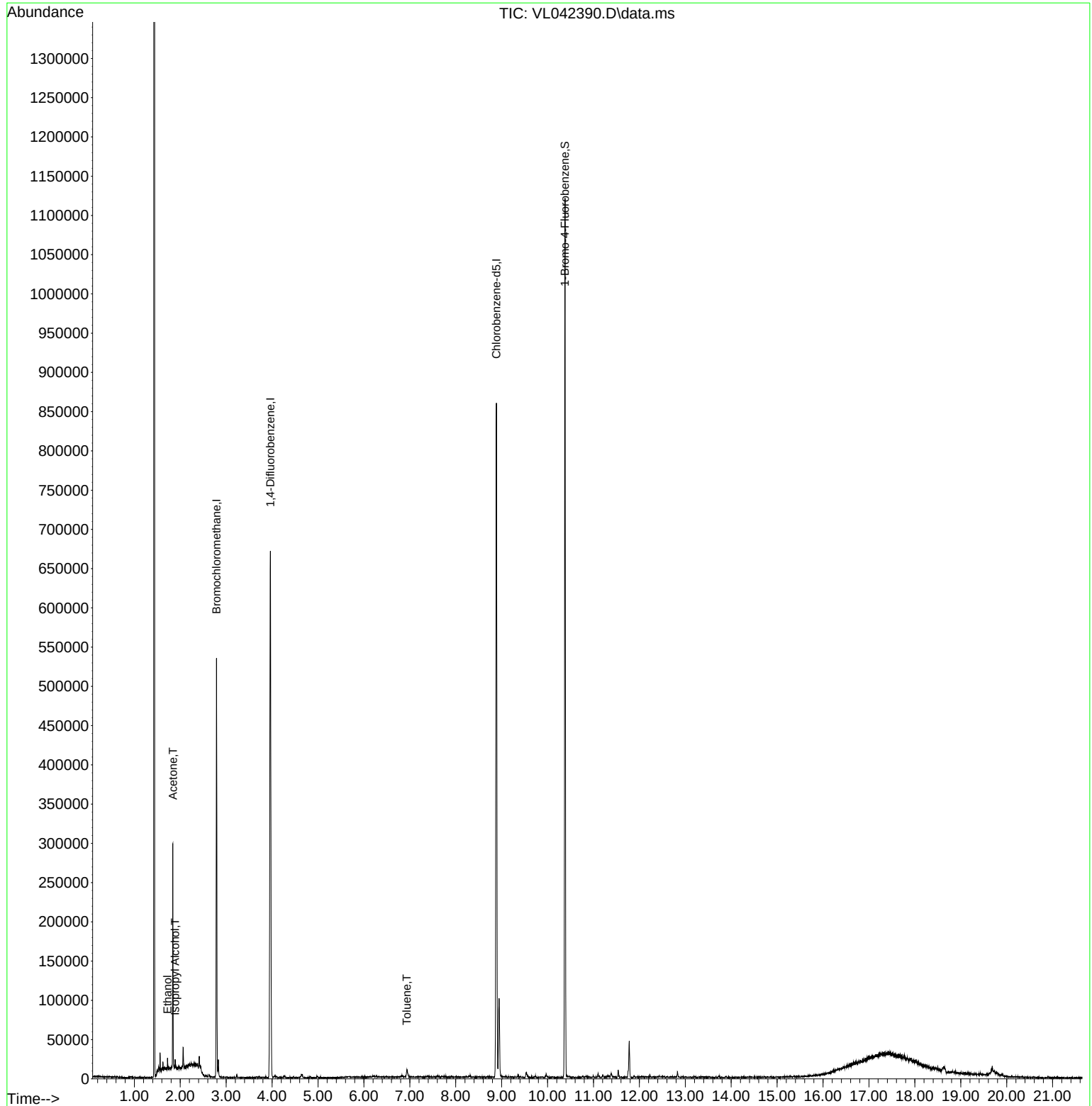
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
Data File : VL042390.D
Acq On : 18 Apr 2025 14:14
Operator : SY/MD
Sample : Q1726-03DL2 100X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

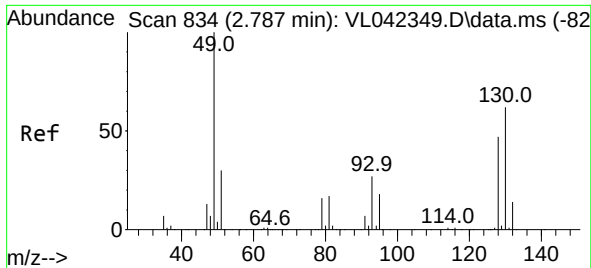
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025DL2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

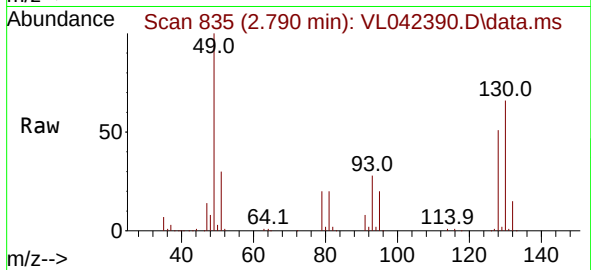
Quant Time: Apr 18 22:59:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042390.D
Acq: 18 Apr 2025 14:14

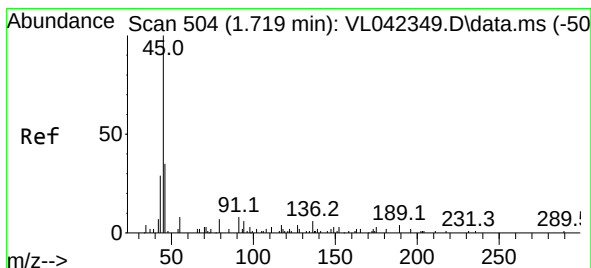
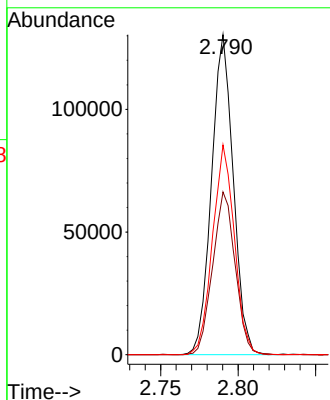
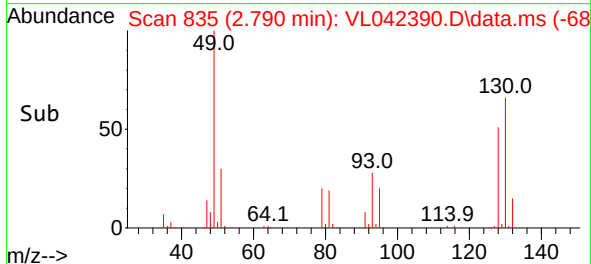
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025DL2



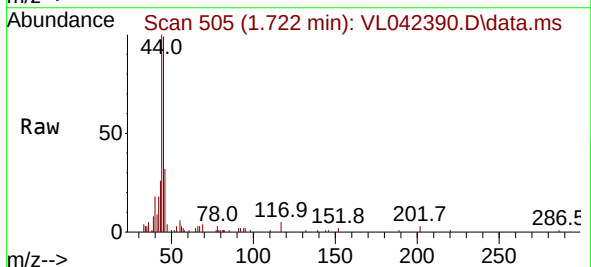
Tgt Ion: 49 Resp: 127324
Ion Ratio Lower Upper
49 100
128 52.6 22.8 68.4
130 65.9 29.3 88.0

Manual Integrations
APPROVED

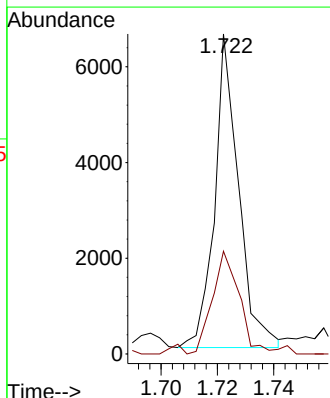
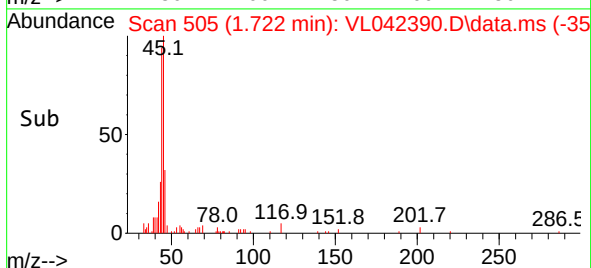
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

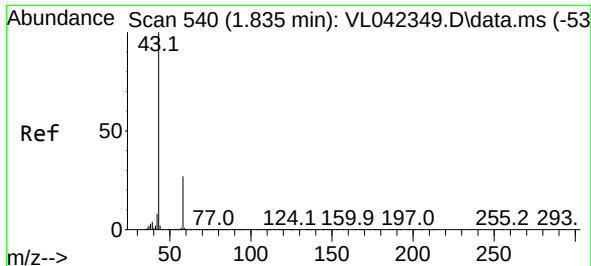


#13
Ethanol
Concen: 2.494 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042390.D
Acq: 18 Apr 2025 14:14



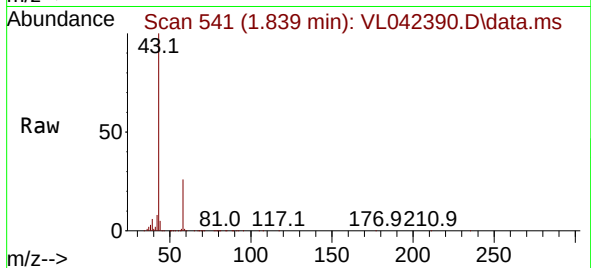
Tgt Ion: 45 Resp: 3867
Ion Ratio Lower Upper
45 100
46 0.0 21.9 87.7#





#15
Acetone
Concen: 6.090 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL042390.D
Acq: 18 Apr 2025 14:14

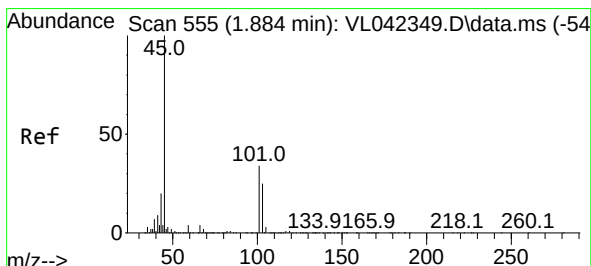
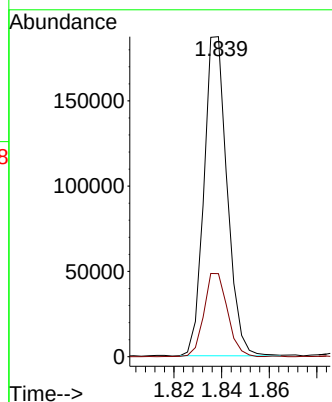
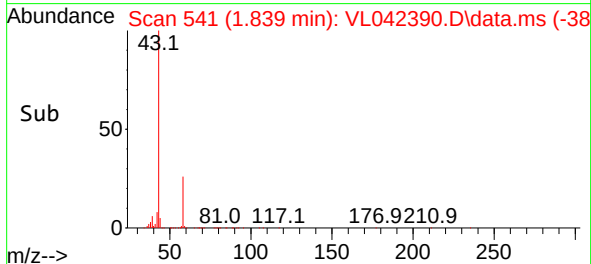
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025DL2



Tgt Ion: 43 Resp: 126938
Ion Ratio Lower Upper
43 100
58 26.7 22.4 33.6

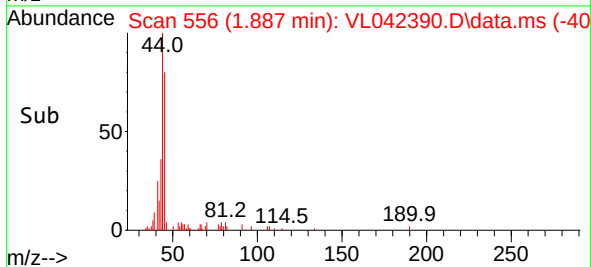
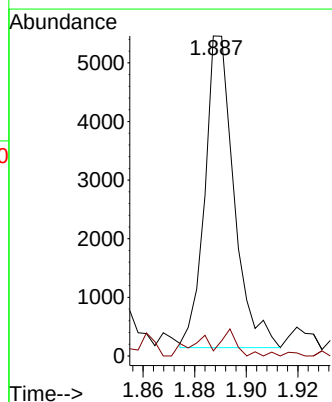
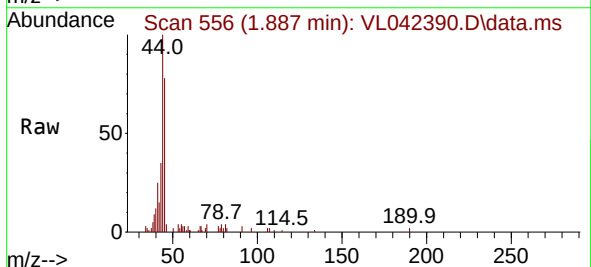
Manual Integrations
APPROVED

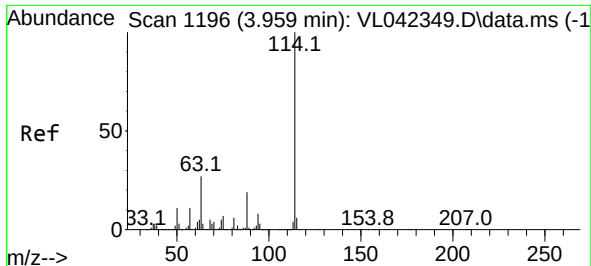
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025



#19
Isopropyl Alcohol
Concen: 0.361 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL042390.D
Acq: 18 Apr 2025 14:14

Tgt Ion: 45 Resp: 4184
Ion Ratio Lower Upper
45 100
58 808.7 34.5 51.7#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. 0.003 min

Lab File: VL042390.D

Acq: 18 Apr 2025 14:14

Instrument :

MSVOA_L

ClientSampleId :

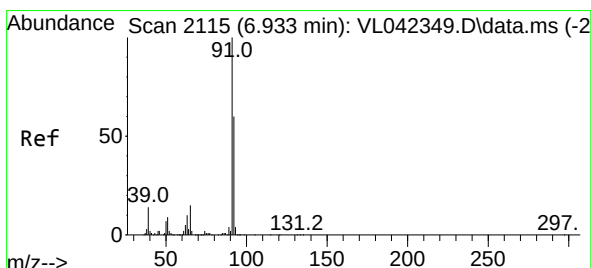
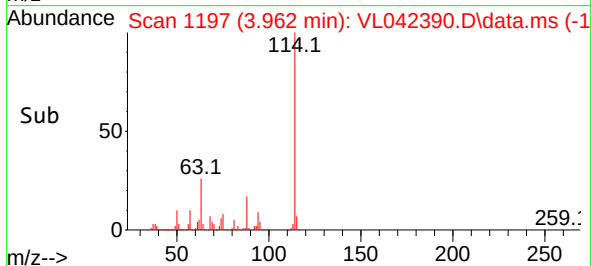
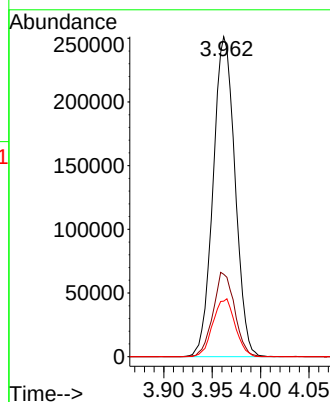
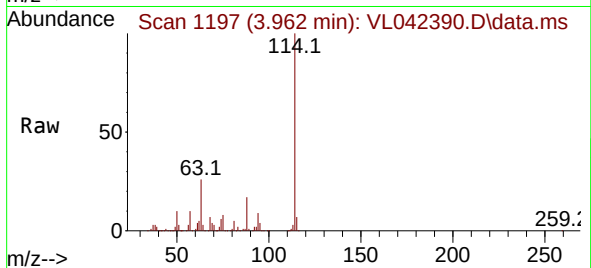
IA-B2-2-03312025DL2

Tgt Ion: 114	Resp: 395389
Ion Ratio	Lower Upper
114 100	
63 26.0	21.8 32.6
88 18.4	15.5 23.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025



#53

Toluene

Concen: 0.114 ppbv m

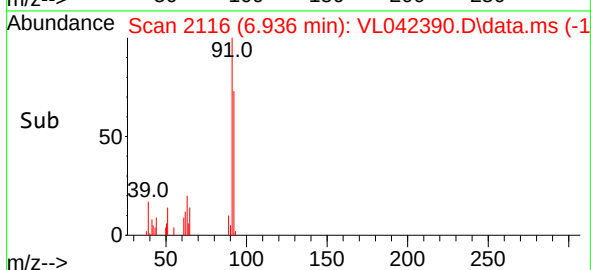
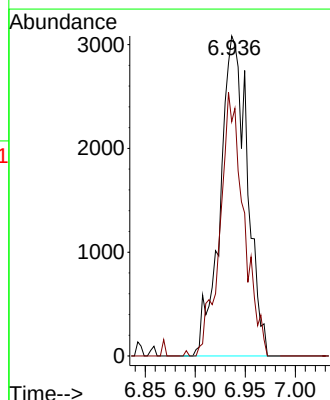
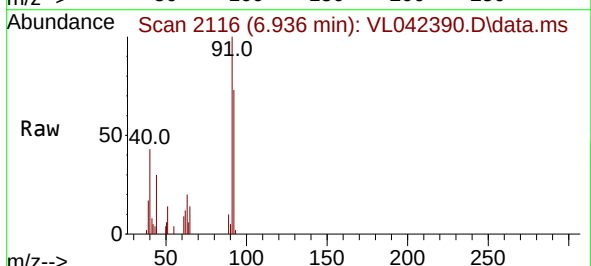
RT: 6.936 min Scan# 2116

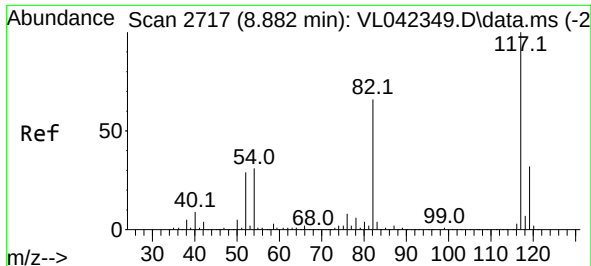
Delta R.T. 0.003 min

Lab File: VL042390.D

Acq: 18 Apr 2025 14:14

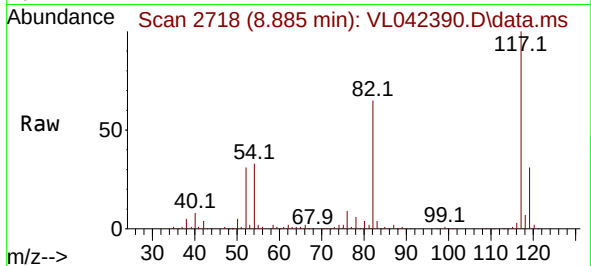
Tgt Ion: 91	Resp: 5816
Ion Ratio	Lower Upper
91 100	
92 72.8	48.2 72.4#





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2717
Delta R.T. 0.003 min
Lab File: VL042390.D
Acq: 18 Apr 2025 14:14

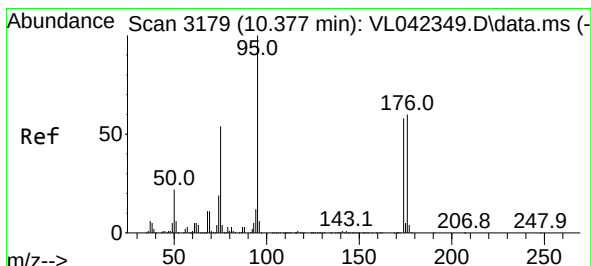
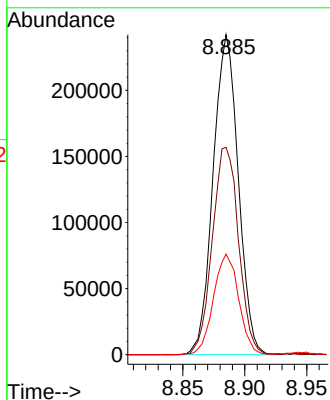
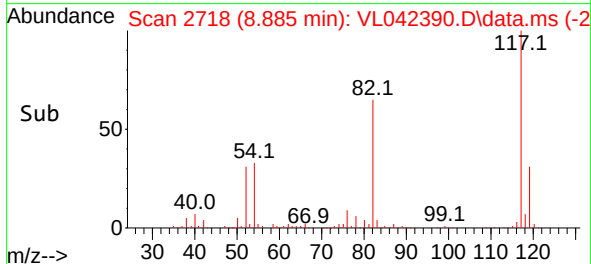
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025DL2



Tgt Ion: 117 Resp: 342879
Ion Ratio Lower Upper
117 100
82 67.7 57.8 86.6
119 31.6 25.2 37.8

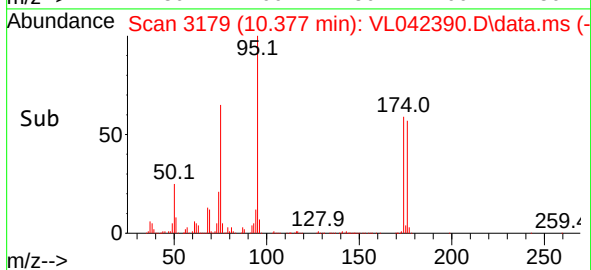
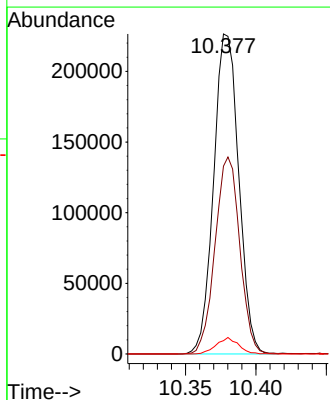
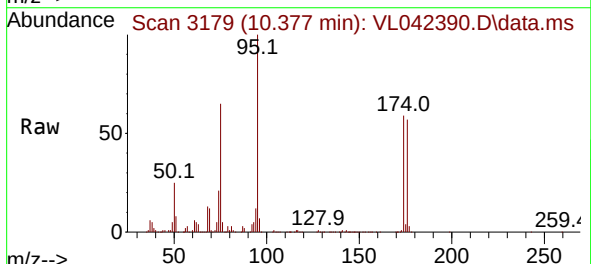
Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.987 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.000 min
Lab File: VL042390.D
Acq: 18 Apr 2025 14:14

Tgt Ion: 95 Resp: 281379
Ion Ratio Lower Upper
95 100
174 60.5 48.5 72.7
175 4.5 3.7 5.5



Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-5-03312025	SDG No.:	Q1726
Lab Sample ID:	Q1726-04	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
VL042369.D	1		04/17/25 21:45	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
64-17-5	Ethanol	270	509	EQ	0.60	0.94	ug/m3
74-87-3	Chloromethane	0.66	1.36		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
593-60-2	Bromoethene	0.12	0.52	U	0.52	2.19	ug/m3
75-65-0	tert-Butyl alcohol	0.66	2.00		0.58	1.52	ug/m3
142-82-5	Heptane	8.60	35.2		0.45	2.05	ug/m3
67-63-0	Isopropyl Alcohol	29.6	72.8	E	0.17	1.23	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
67-64-1	Acetone	150	356	E	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	2.90	10.1		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	2.10	7.23		0.76	1.72	ug/m3
78-93-3	2-Butanone	1.20	3.54		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	19.3	90.2	E	0.47	2.34	ug/m3
71-43-2	Benzene	1.90	6.07		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	51.4	194	E	0.41	1.88	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-5-03312025	SDG No.:	Q1726
Lab Sample ID:	Q1726-04	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
VL042369.D	1		04/17/25 21:45	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
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
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	0.14	0.95		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	11.3	49.1		0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	38.9	169	E	0.91	4.34	ug/m3
95-47-6	o-Xylene	15.3	66.5	E	0.52	2.17	ug/m3
100-42-5	Styrene	0.38	1.62	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	1.00	5.18		0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	7.10	34.9		0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	19.7	96.8	E	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	0.34	2.04	J	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	2.40	12.6		0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	5.50	27.0		0.59	2.46	ug/m3
110-54-3	Hexane	5.60	19.7		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	9.80		70 (65) - 130 (135)	98%	SPK: 10
----------	-------------------------	------	--	---------------------	-----	---------

INTERNAL STANDARDS

74-97-5	Bromochloromethane	116000	2.787
540-36-3	1,4-Difluorobenzene	331000	3.959
3114-55-4	Chlorobenzene-d5	288000	8.881

TENTATIVE IDENTIFIED COMPOUNDS

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-5-03312025	SDG No.:	Q1726
Lab Sample ID:	Q1726-04	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
VL042369.D	1		04/17/25 21:45	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
75-45-6	Chlorodifluoromethane	0.27		J		1.47	ppbv
115-07-1	Propene	2.60		J		1.49	ppbv
000106-97-8	Butane	8.60		J		1.62	ppbv
000096-37-7	Cyclopentane, methyl-	6.80		J		3.23	ppbv
000591-76-4	Hexane, 2-methyl-	10.4		J		4.05	ppbv
000589-34-4	Hexane, 3-methyl-	11.4		J		4.27	ppbv
000108-87-2	Cyclohexane, methyl-	9.50		J		5.66	ppbv
000592-13-2	Hexane, 2,5-dimethyl-	7.00		J		6.20	ppbv
000565-75-3	Pentane, 2,3,4-trimethyl-	13.4		J		6.83	ppbv
000589-81-1	Heptane, 3-methyl-	9.40		J		7.60	ppbv
000111-65-9	Octane	9.90		J		8.30	ppbv
98-82-8	Isopropylbenzene	0.99		J		10.5	ppbv
103-65-1	n-propylbenzene	3.40		J		11.0	ppbv
135-98-8	sec-Butylbenzene	0.24		J		11.8	ppbv
99-87-6	p-Isopropyltoluene	0.44		J		11.9	ppbv
104-51-8	n-Butylbenzene	1.30		J		12.3	ppbv
000874-41-9	Benzene, 1-ethyl-2,4-dimethyl-	7.50		J		12.6	ppbv
91-57-6	Naphthalene,2-methyl-	1.30		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 : VL042369.D
 Acq On : 17 Apr 2025 21:45
 Operator : SY/MD
 Sample : Q1726-04
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-5-03312025

Manual Integrations
 APPROVED

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

Quant Time: Apr 18 02:44:30 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)

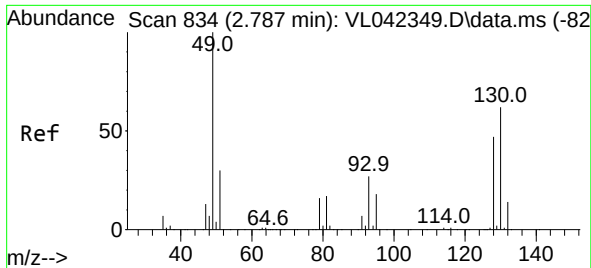
Internal Standards						
1) Bromochloromethane	2.787	49	115766	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	331154	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.881	117	288378	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	233305	9.845	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.500%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	9802	0.479	ppbv	95
3) Chlorodifluoromethane	1.473	51	5213m	0.268	ppbv	
4) Chloromethane	1.534	50	5300	0.655	ppbv #	81
9) Propene	1.486	41	23207m	2.616	ppbv	
10) Heptane	4.978	43	213280	8.559	ppbv	95
11) Trichlorofluoromethane	1.877	101	4337	0.223	ppbv	92
13) Ethanol	1.722	45	387433	274.810	ppbv	76
15) Acetone	1.835	43	2882826	152.118	ppbv #	50
17) tert-Butyl alcohol	2.046	59	15500m	0.660	ppbv	
19) Isopropyl Alcohol	1.887	45	311784	29.616	ppbv #	33
20) Methylene Chloride	2.062	84	21493	2.896	ppbv	95
26) Hexane	2.826	57	104975	5.551	ppbv #	36
30) Cyclohexane	3.855	84	32446	2.123	ppbv	89
34) 2-Butanone	2.560	43	31500	1.203	ppbv	99
35) Carbon Tetrachloride	3.771	117	2190m	0.073	ppbv	
36) Benzene	3.658	78	67666	1.894	ppbv	98
44) 2,2,4-Trimethylpentane	4.641	57	1192538	19.331	ppbv	95
52) Tetrachloroethene	8.234	164	1929m	0.140	ppbv	
53) Toluene	6.933	91	2204506	51.432	ppbv	99
58) Ethyl Benzene	9.354	91	646931	11.323	ppbv	100
59) m/p-Xylene	9.532	91	1789840	38.886	ppbv	100
60) o-Xylene	9.963	91	709518	15.308	ppbv	99
61) Styrene	9.869	104	8504	0.384	ppbv #	91
62) Isopropylbenzene	10.539	105	67289	0.989	ppbv	100
64) n-propylbenzene	10.989	120	58634	3.428	ppbv	95
67) sec-Butylbenzene	11.769	105	20996	0.241	ppbv #	77
69) p-Isopropyltoluene	11.924	119	33273	0.440	ppbv	98
70) n-Butylbenzene	12.286	91	102145	1.298	ppbv #	35
71) 2-Chlorotoluene	10.901	91	54169	1.015	ppbv	97
72) 4-Ethyltoluene	11.124	105	313941	5.540	ppbv #	56
73) 1,3,5-Trimethylbenzene	11.205	105	354735	7.091	ppbv	100
74) 1,2,4-Trimethylbenzene	11.539	105	1151476	19.707	ppbv #	65
76) 1,4-Dichlorobenzene	11.671	146	10434	0.342	ppbv #	50
79) Naphthalene	13.513	128	166277	2.380	ppbv	98
80) Naphthalene,2-methyl-	14.458	142	50980	1.280	ppbv	96

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

Manual Integrations
APPROVED

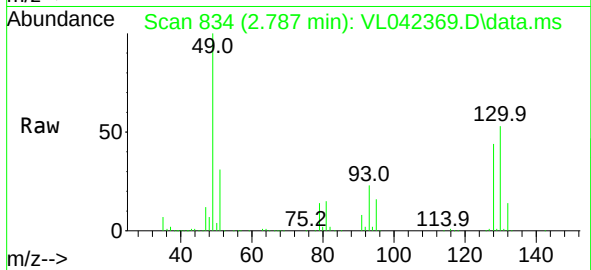
Quant Time: Apr 18 02:44:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

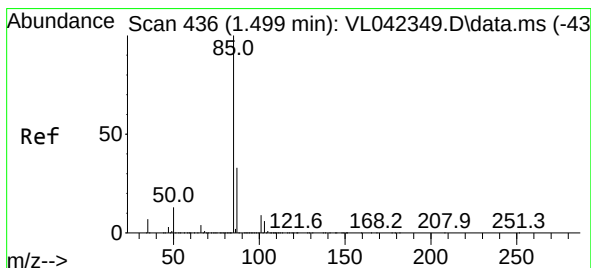
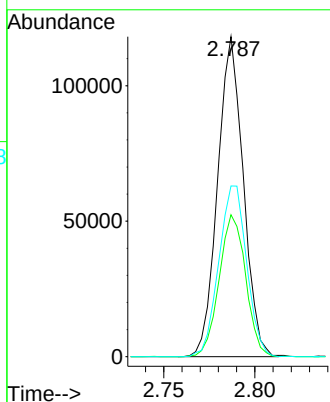
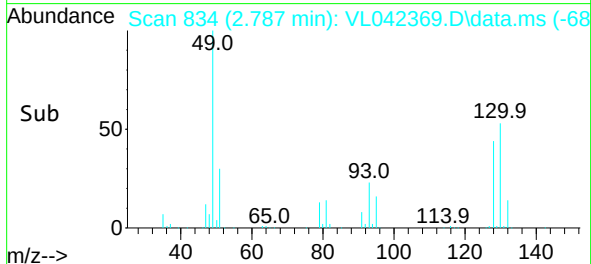
Instrument : MSVOA_L
ClientSampleId : IA-B2-5-03312025



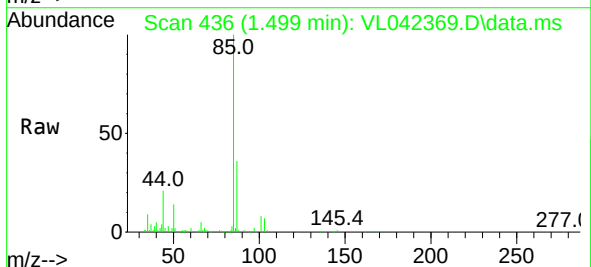
Tgt Ion: 49 Resp: 115760
Ion Ratio Lower Upper
49 100
128 45.8 22.8 68.4
130 58.0 29.3 88.0

Manual Integrations
APPROVED

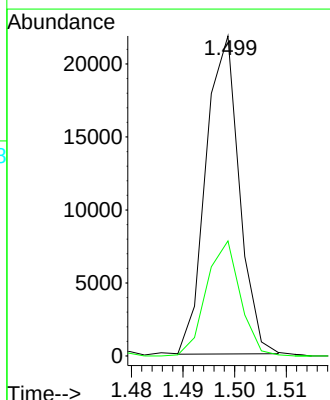
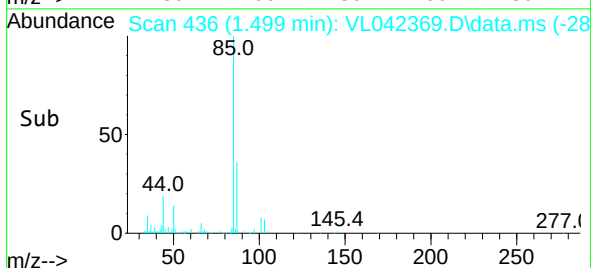
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

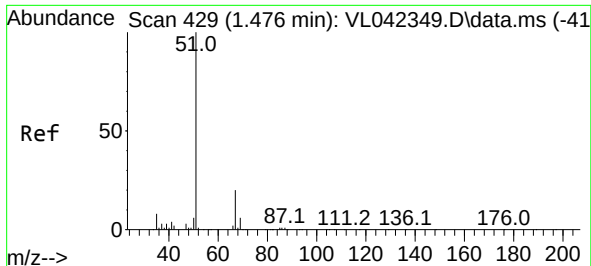


#2
Dichlorodifluoromethane
Concen: 0.479 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45



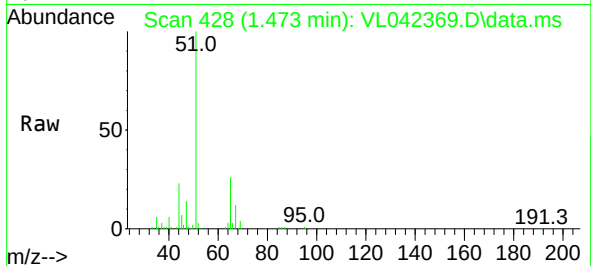
Tgt Ion: 85 Resp: 9802
Ion Ratio Lower Upper
85 100
87 35.9 26.6 39.8





#3
Chlorodifluoromethane
Concen: 0.268 ppbv m
RT: 1.473 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

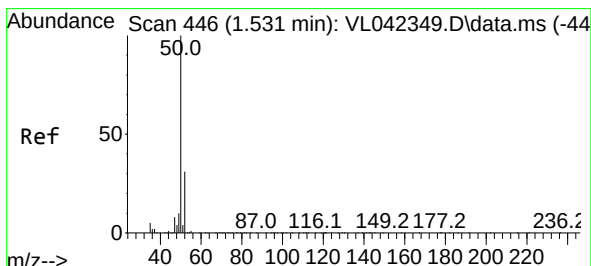
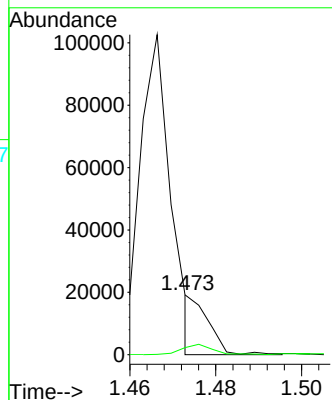
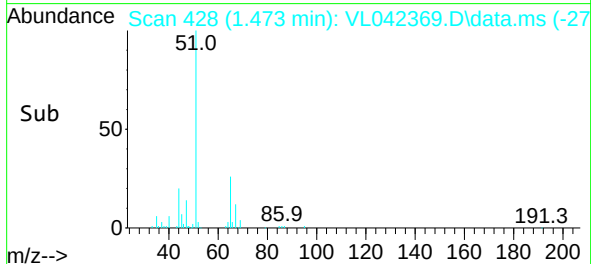
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025



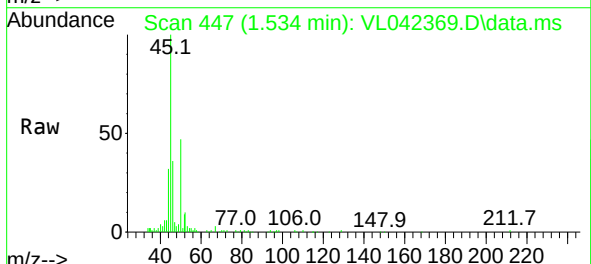
Tgt Ion: 51 Resp: 521
Ion Ratio Lower Upper
51 100
67 32.0 16.2 24.4

Manual Integrations
APPROVED

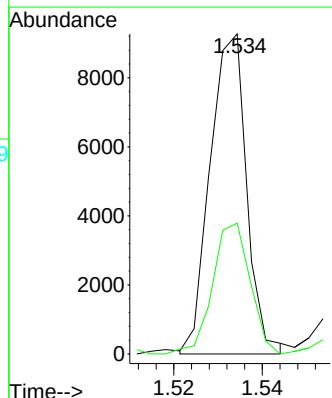
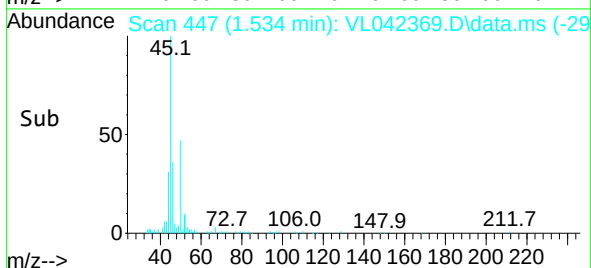
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

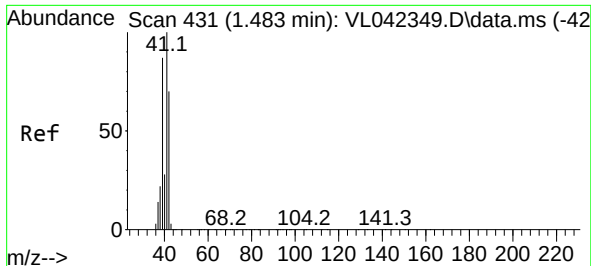


#4
Chloromethane
Concen: 0.655 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45



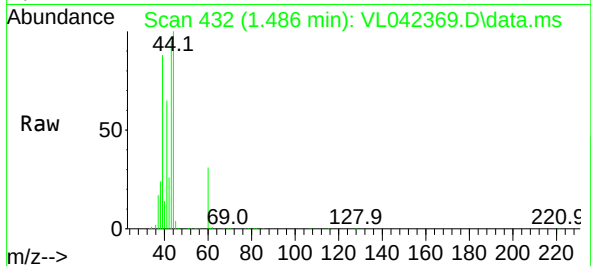
Tgt Ion: 50 Resp: 5300
Ion Ratio Lower Upper
50 100
52 41.3 24.7 37.1





#9
 Propene
 Concen: 2.616 ppbv m
 RT: 1.486 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL042369.D
 Acq: 17 Apr 2025 21:45

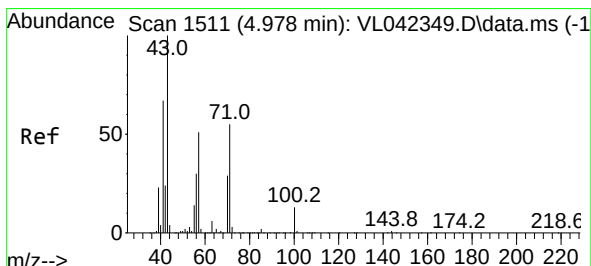
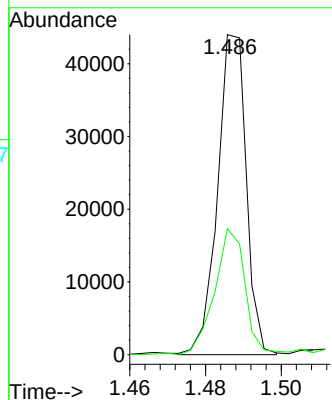
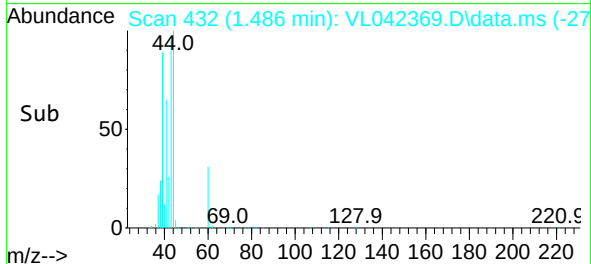
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-5-03312025



Tgt Ion: 41 Resp: 2320
 Ion Ratio Lower Upper
 41 100
 42 243.7 56.2 84.4

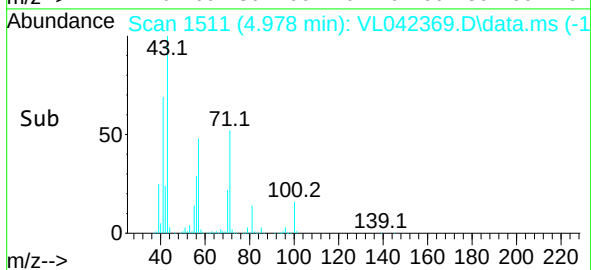
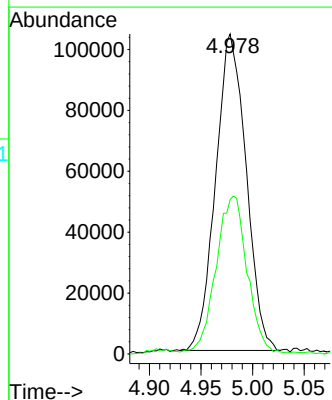
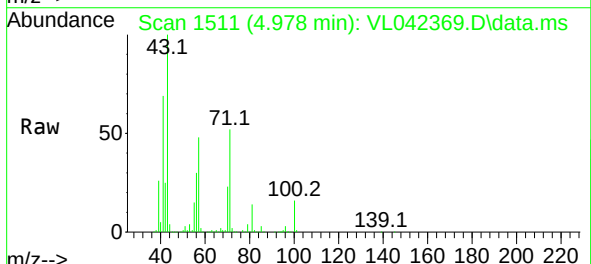
Manual Integrations
 APPROVED

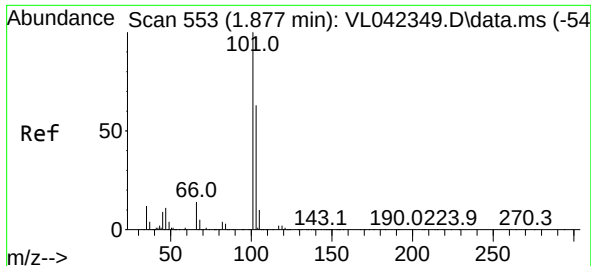
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#10
 Heptane
 Concen: 8.559 ppbv
 RT: 4.978 min Scan# 1511
 Delta R.T. -0.000 min
 Lab File: VL042369.D
 Acq: 17 Apr 2025 21:45

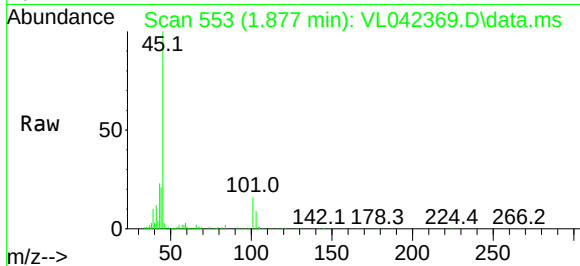
Tgt Ion: 43 Resp: 213280
 Ion Ratio Lower Upper
 43 100
 57 53.1 39.9 59.9





#11
Trichlorofluoromethane
Concen: 0.223 ppbv
RT: 1.877 min Scan# 505
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

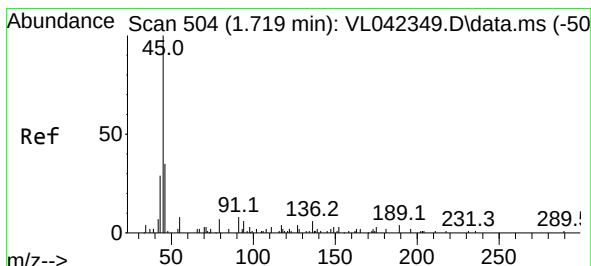
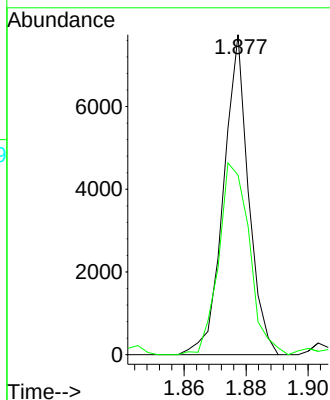
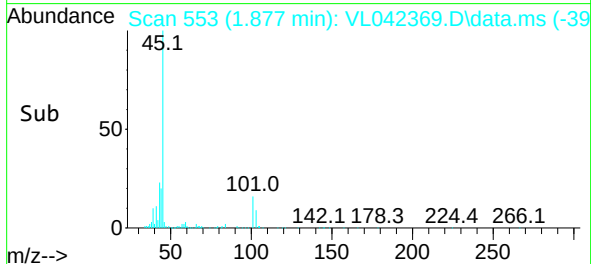
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025



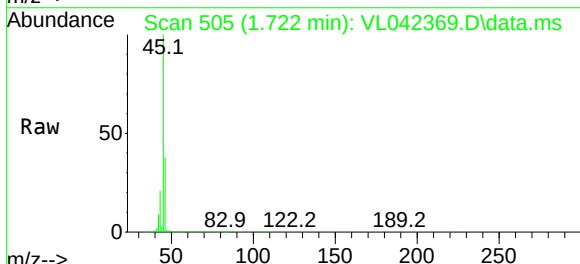
Tgt Ion:101 Resp: 433
Ion Ratio Lower Upper
101 100
103 56.1 50.1 75.1

Manual Integrations
APPROVED

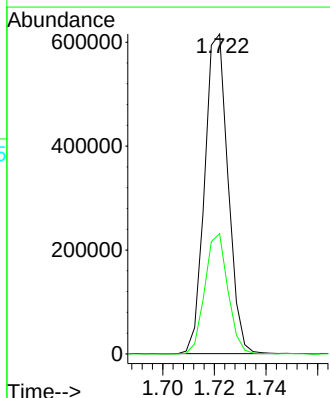
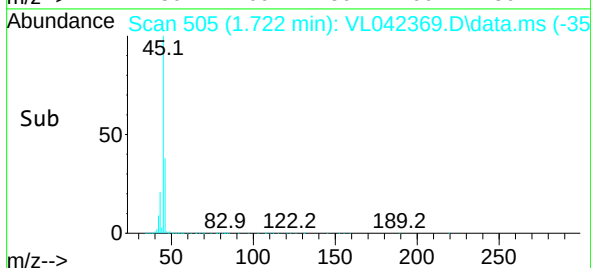
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

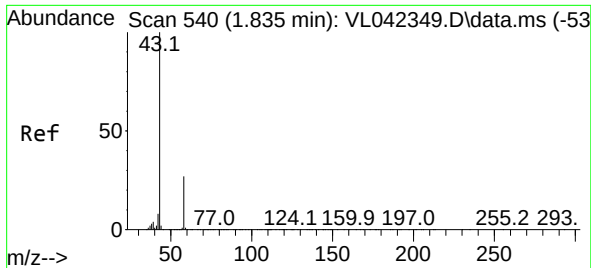


#13
Ethanol
Concen: 274.810 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45



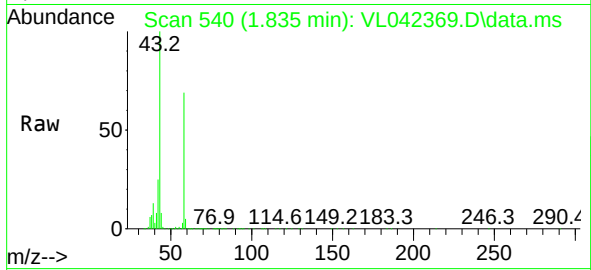
Tgt Ion: 45 Resp: 387433
Ion Ratio Lower Upper
45 100
46 37.4 21.9 87.7





#15
Acetone
Concen: 152.118 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

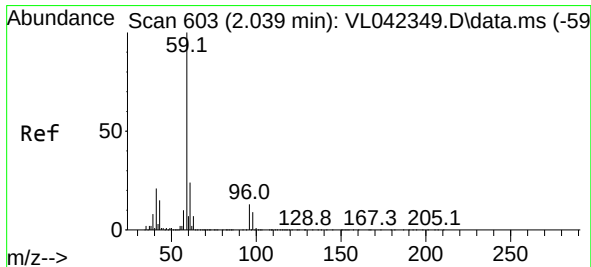
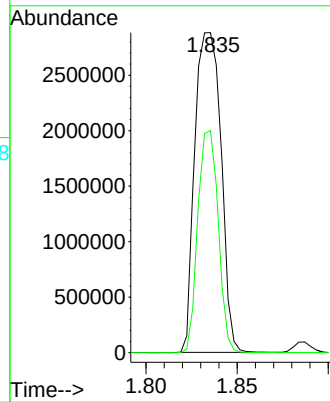
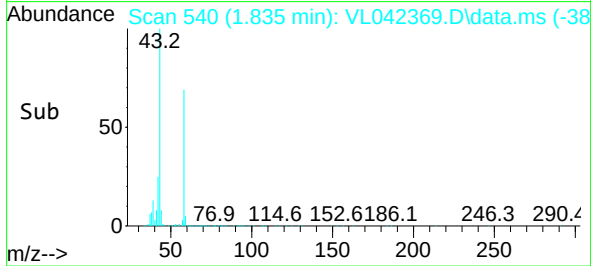
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025



Tgt Ion: 43 Resp: 2882820
Ion Ratio Lower Upper
43 100
58 54.3 22.4 33.6

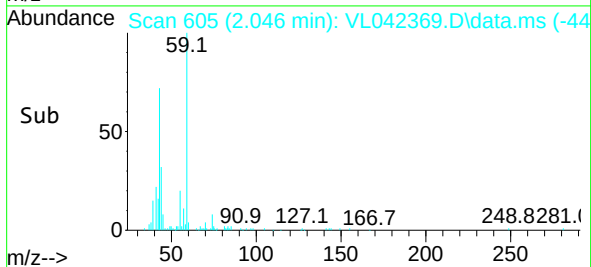
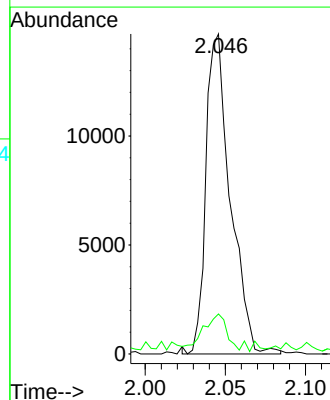
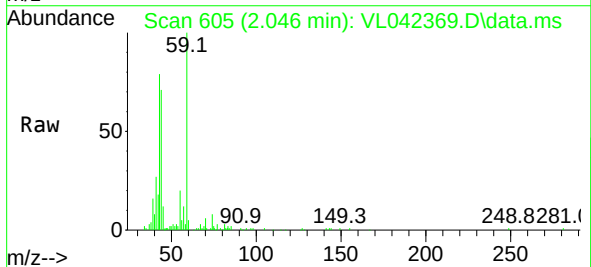
Manual Integrations
APPROVED

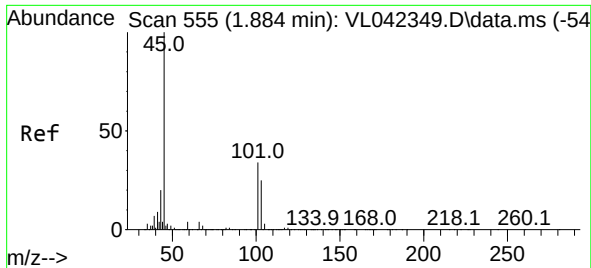
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#17
tert-Butyl alcohol
Concen: 0.660 ppbv m
RT: 2.046 min Scan# 605
Delta R.T. 0.006 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion: 59 Resp: 15500
Ion Ratio Lower Upper
59 100
57 29.9 8.7 13.1





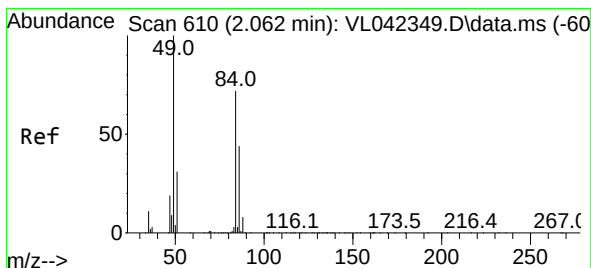
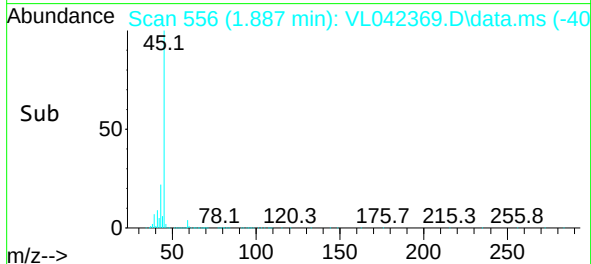
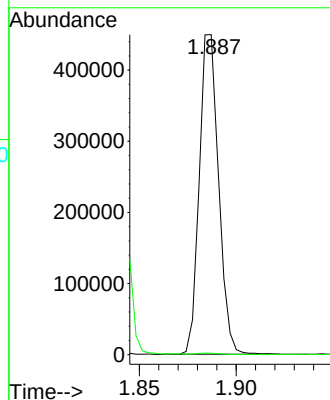
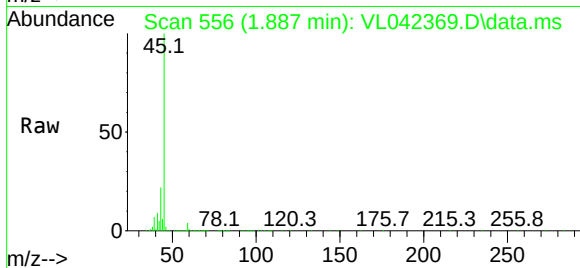
#19
Isopropyl Alcohol
Concen: 29.616 ppbv
RT: 1.887 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

Tgt Ion: 45 Resp: 311784
Ion Ratio Lower Upper
45 100
58 0.0 34.5 51.7

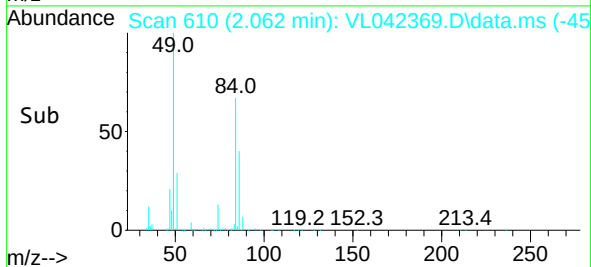
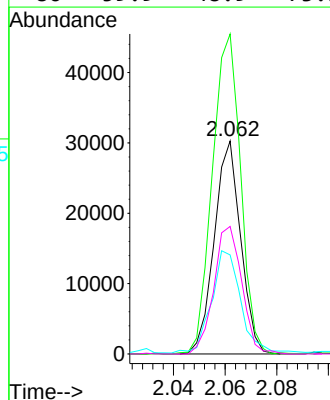
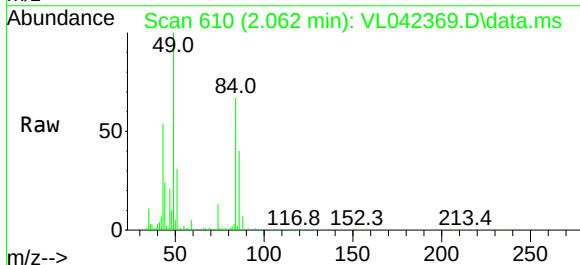
Manual Integrations
APPROVED

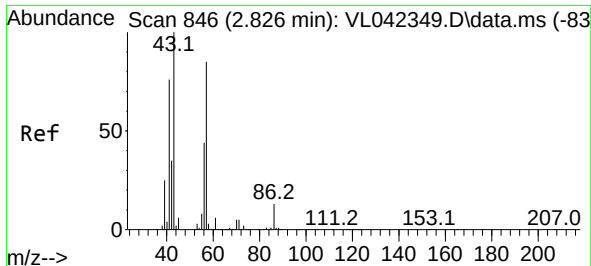
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#20
Methylene Chloride
Concen: 2.896 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

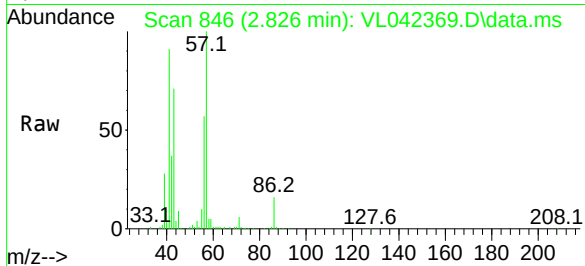
Tgt Ion: 84 Resp: 21493
Ion Ratio Lower Upper
84 100
49 149.6 111.6 167.4
51 45.0 35.1 52.7
86 59.9 48.9 73.3





#26
Hexane
Concen: 5.551 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

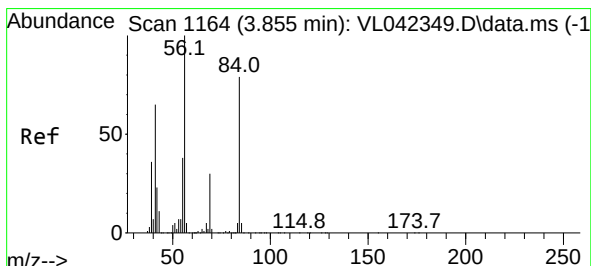
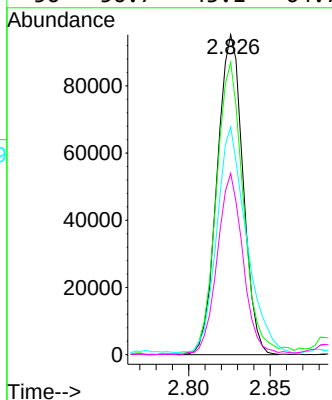
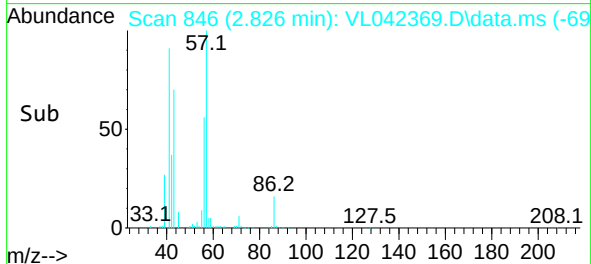
Instrument : MSVOA_L
ClientSampleId : IA-B2-5-03312025



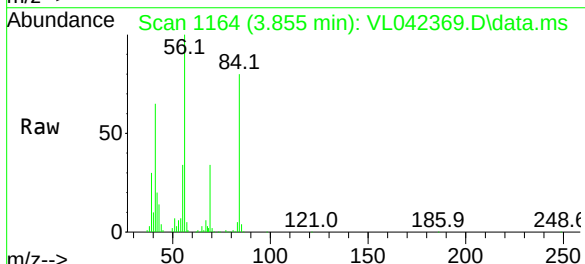
Tgt Ion: 57 Resp: 104979
Ion Ratio Lower Upper
57 100
41 96.7 77.9 116.9
43 80.2 208.4 312.6
56 56.7 43.1 64.7

Manual Integrations
APPROVED

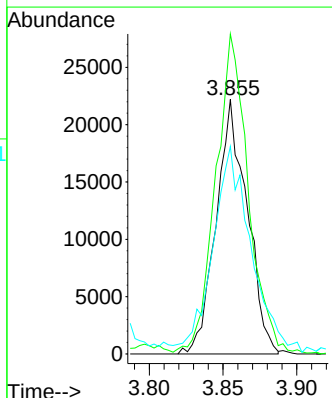
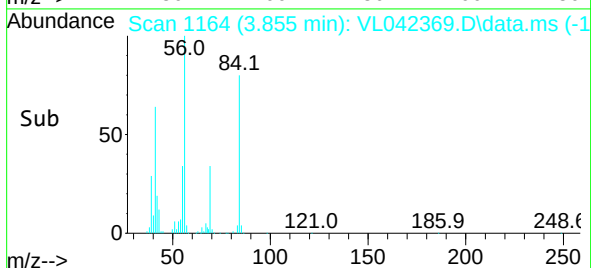
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

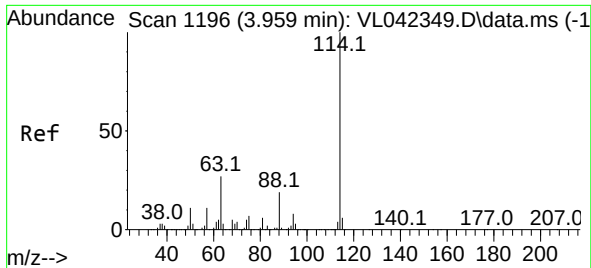


#30
Cyclohexane
Concen: 2.123 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45



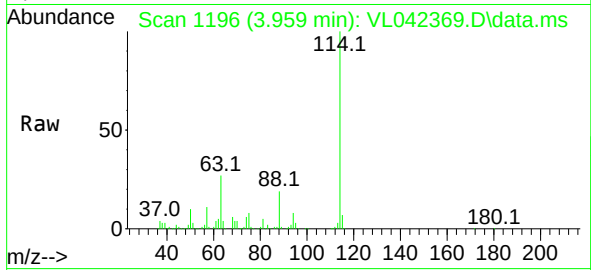
Tgt Ion: 84 Resp: 32446
Ion Ratio Lower Upper
84 100
56 132.7 101.0 151.4
41 100.9 67.4 101.0





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

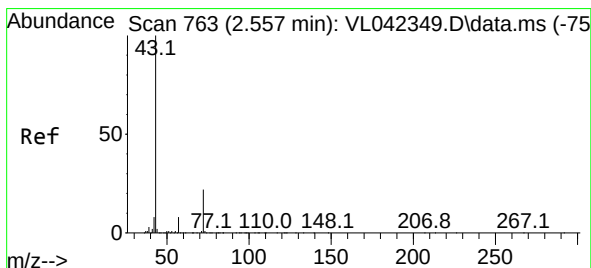
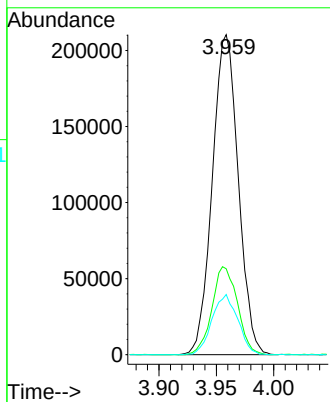
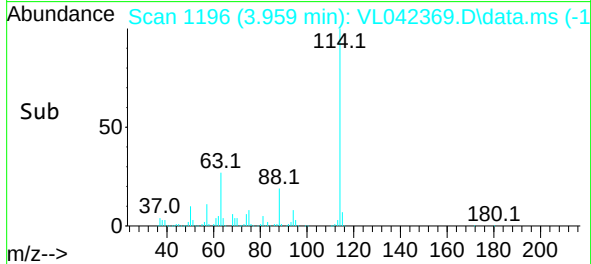
Instrument : MSVOA_L
ClientSampleId : IA-B2-5-03312025



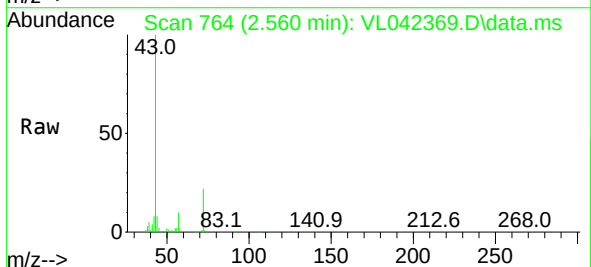
Tgt Ion:114 Resp: 331154
Ion Ratio Lower Upper
114 100
63 27.0 21.8 32.6
88 18.8 15.5 23.3

Manual Integrations
APPROVED

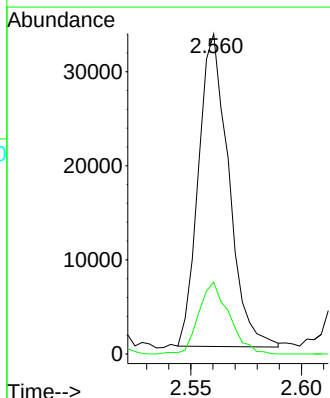
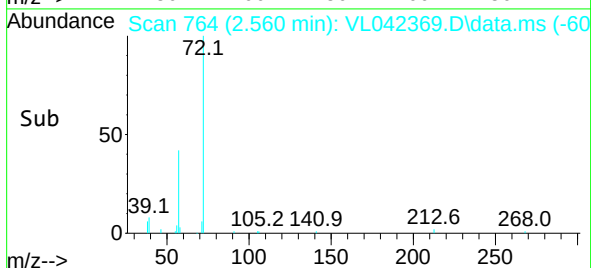
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

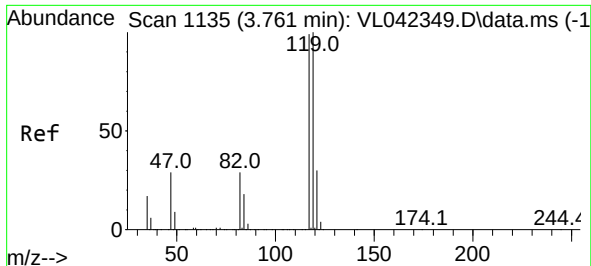


#34
2-Butanone
Concen: 1.203 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45



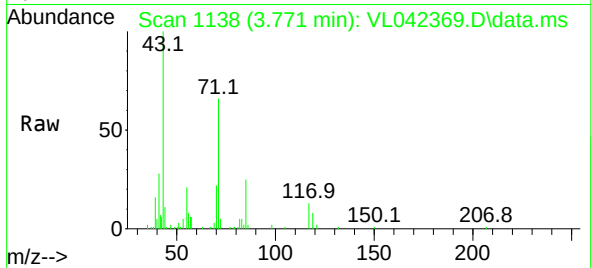
Tgt Ion: 43 Resp: 31500
Ion Ratio Lower Upper
43 100
72 23.1 18.2 27.2





#35
Carbon Tetrachloride
Concen: 0.073 ppbv m
RT: 3.771 min Scan# 1135
Delta R.T. 0.010 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

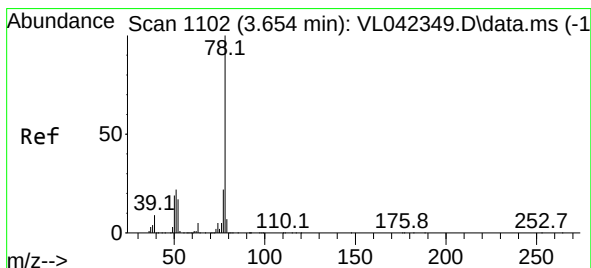
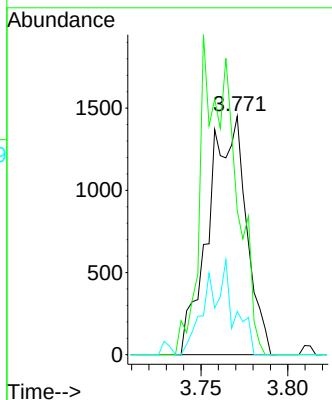
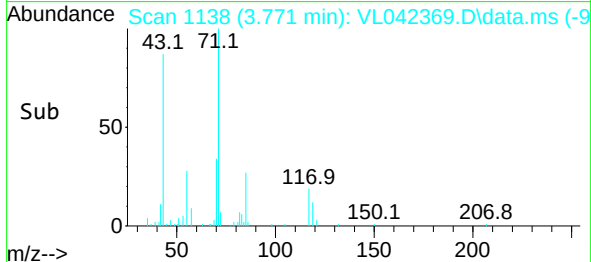
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025



Tgt Ion: 117 Resp: 2190
Ion Ratio Lower Upper
117 100
119 60.4 80.5 120.7
121 18.1 24.2 36.2

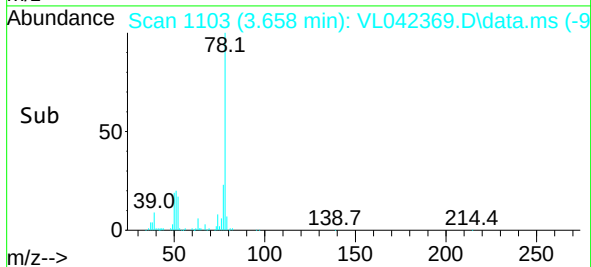
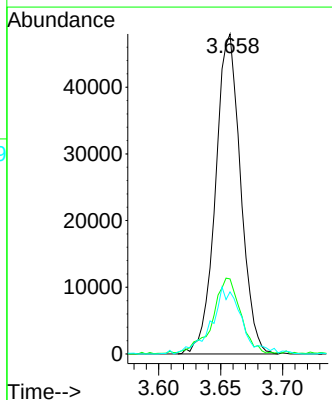
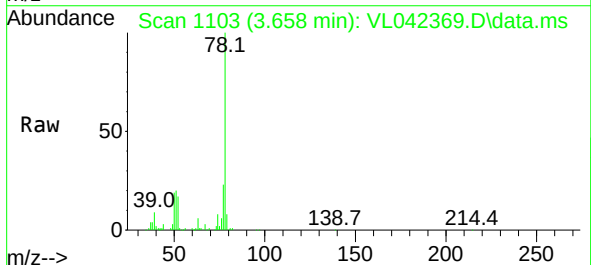
Manual Integrations
APPROVED

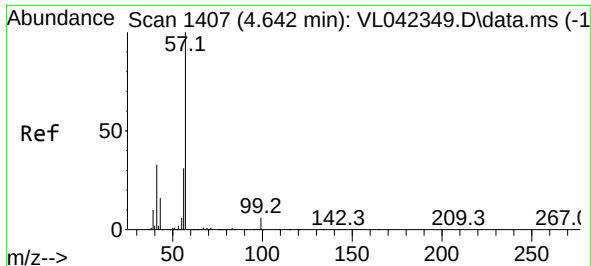
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#36
Benzene
Concen: 1.894 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. 0.003 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

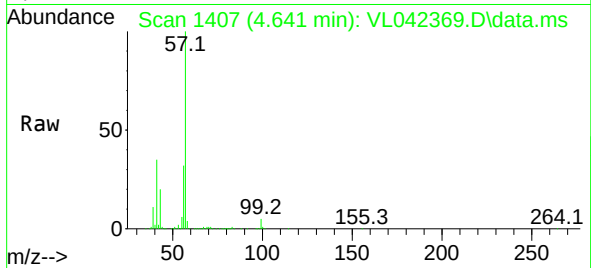
Tgt Ion: 78 Resp: 67666
Ion Ratio Lower Upper
78 100
77 23.1 17.4 26.0
50 19.1 15.5 23.3





#44
2,2,4-Trimethylpentane
Concen: 19.331 ppbv
RT: 4.641 min Scan# 1407
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

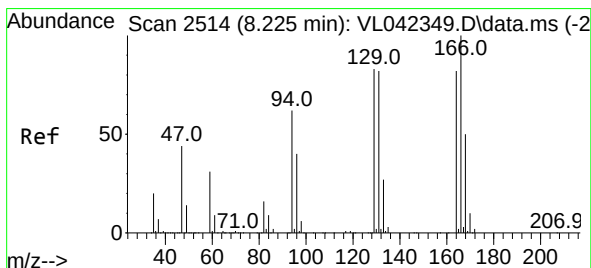
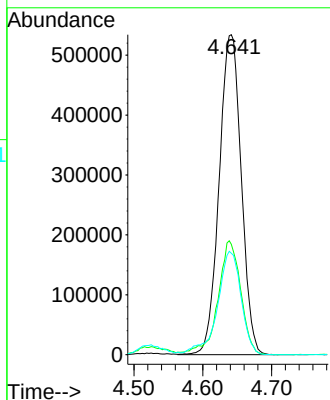
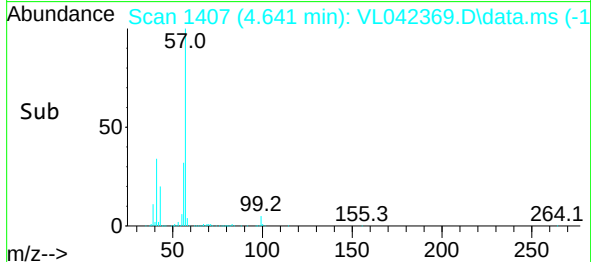
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025



Tgt Ion: 57 Resp: 1192538
Ion Ratio Lower Upper
57 100
41 36.7 27.2 40.8
56 34.7 25.7 38.5

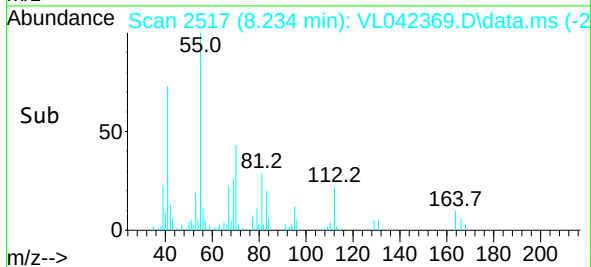
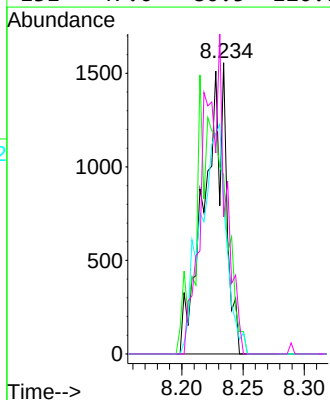
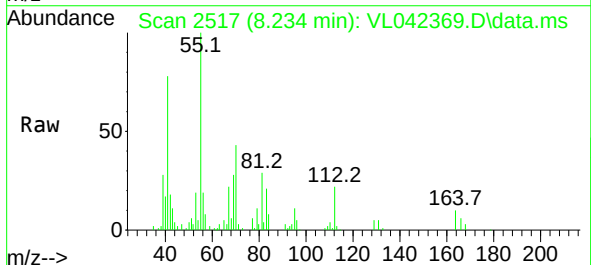
Manual Integrations
APPROVED

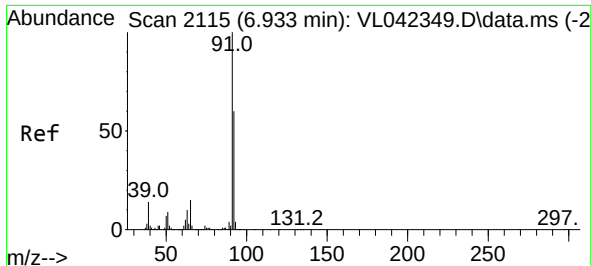
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#52
Tetrachloroethene
Concen: 0.140 ppbv m
RT: 8.234 min Scan# 2517
Delta R.T. 0.010 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion:164 Resp: 1929
Ion Ratio Lower Upper
164 100
166 61.6 98.2 147.2#
129 51.0 81.8 122.8#
131 47.0 80.5 120.7#





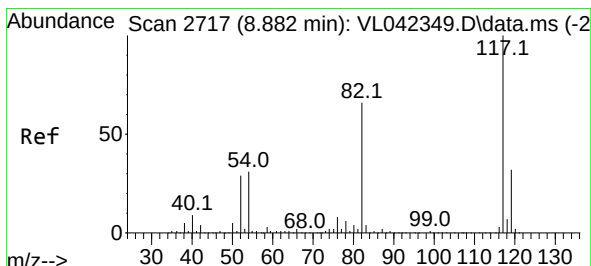
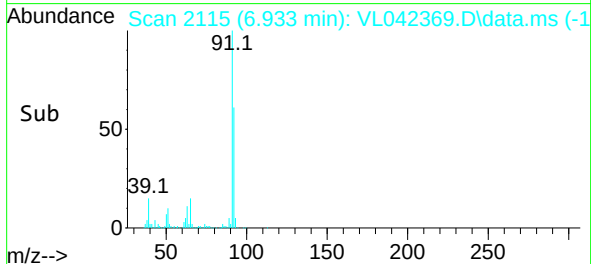
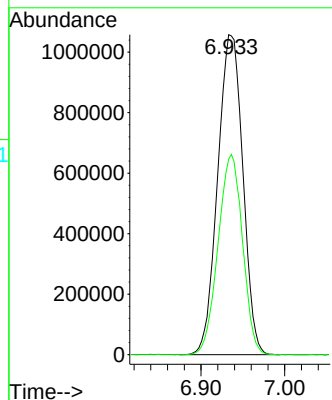
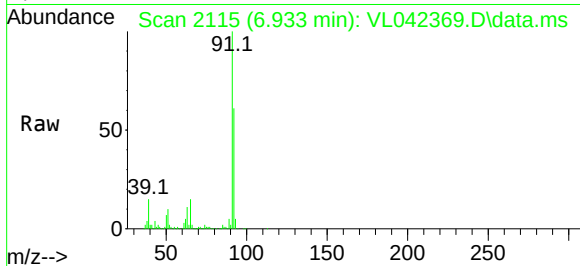
#53
Toluene
Concen: 51.432 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Instrument : MSVOA_L
ClientSampleId : IA-B2-5-03312025

Tgt Ion: 91 Resp: 2204500
Ion Ratio Lower Upper
91 100
92 60.8 48.2 72.4

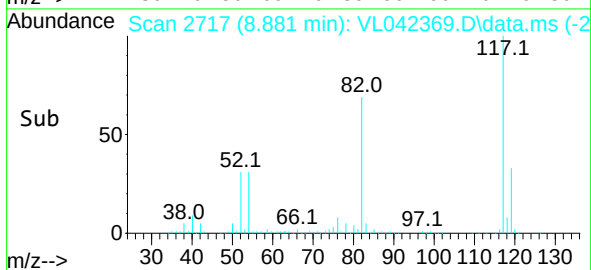
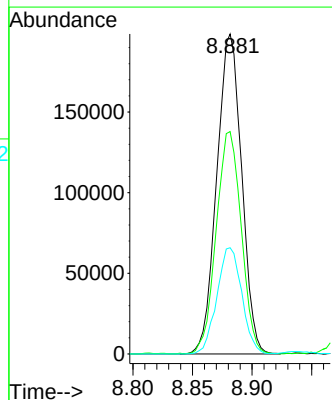
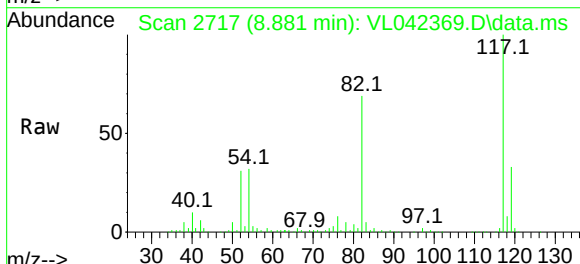
Manual Integrations
APPROVED

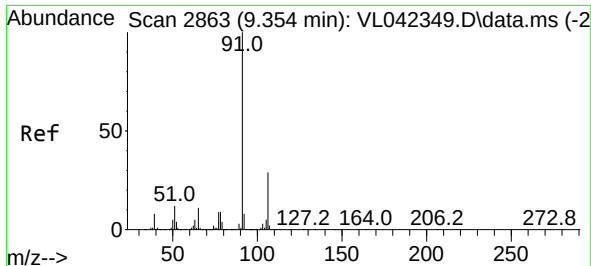
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.881 min Scan# 2717
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

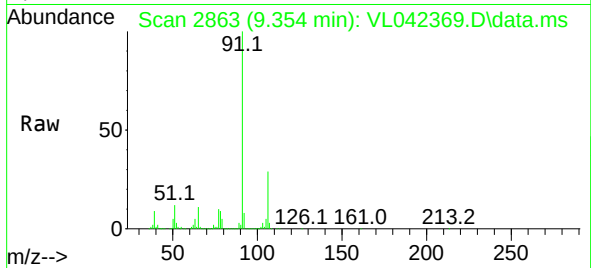
Tgt Ion:117 Resp: 288378
Ion Ratio Lower Upper
117 100
82 70.2 57.8 86.6
119 33.2 25.2 37.8





#58
Ethyl Benzene
Concen: 11.323 ppbv
RT: 9.354 min Scan# 2188
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

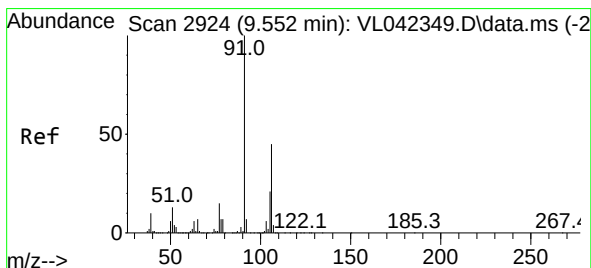
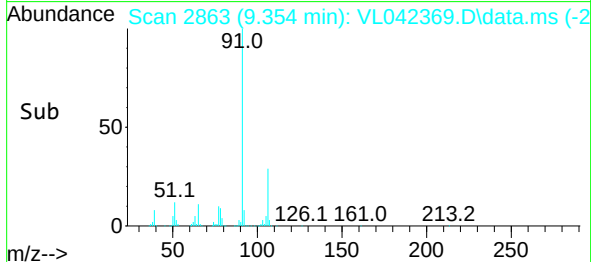
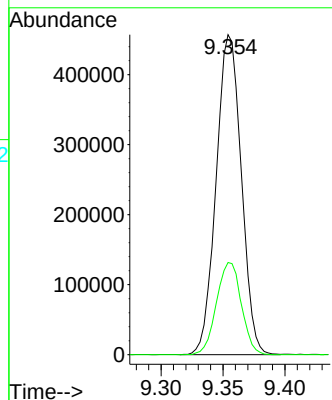
Instrument : MSVOA_L
ClientSampleId : IA-B2-5-03312025



Tgt Ion: 91 Resp: 64693
Ion Ratio Lower Upper
91 100
106 28.8 23.0 34.4

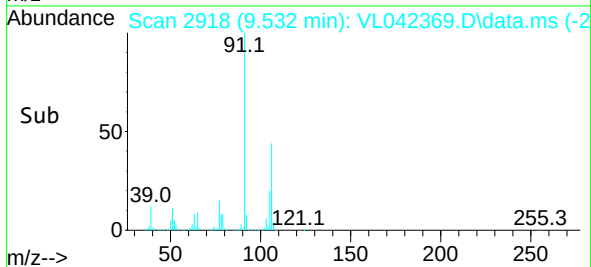
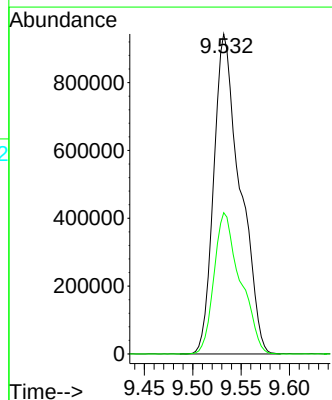
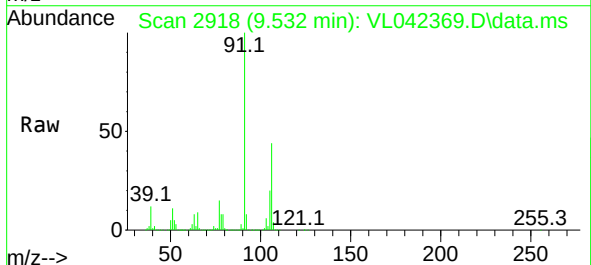
Manual Integrations
APPROVED

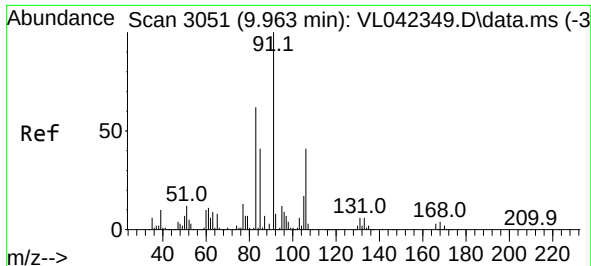
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#59
m/p-Xylene
Concen: 38.886 ppbv
RT: 9.532 min Scan# 2918
Delta R.T. -0.019 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

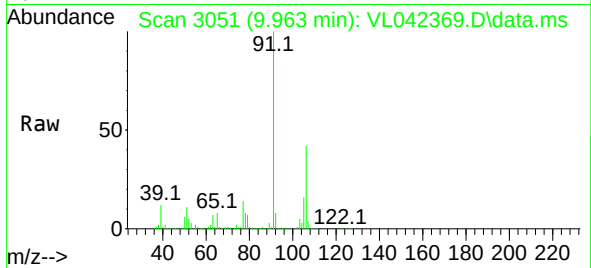
Tgt Ion: 91 Resp: 1789840
Ion Ratio Lower Upper
91 100
106 44.0 35.4 53.2





#60
o-Xylene
Concen: 15.308 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

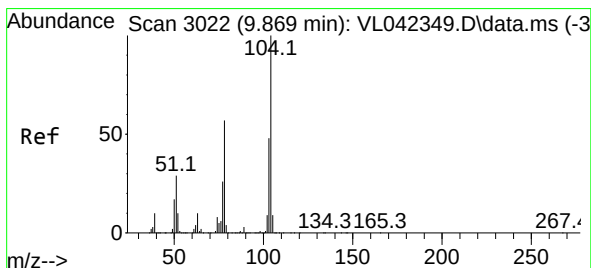
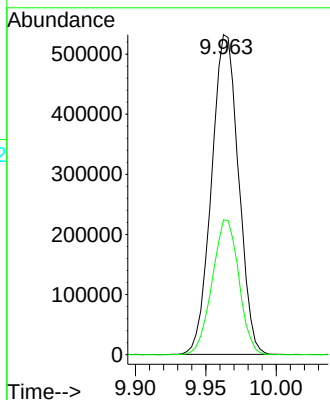
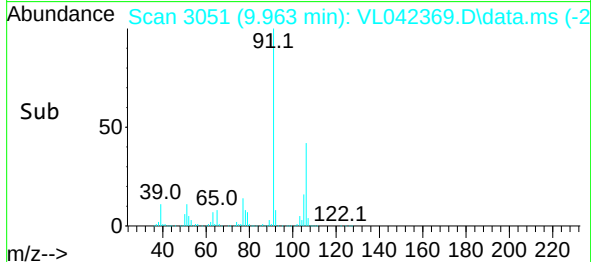
Instrument : MSVOA_L
ClientSampleId : IA-B2-5-03312025



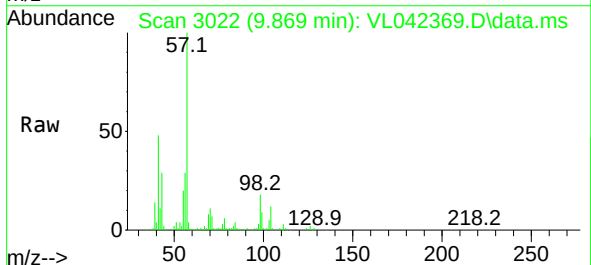
Tgt Ion: 91 Resp: 709518
Ion Ratio Lower Upper
91 100
106 41.7 21.1 63.4

Manual Integrations
APPROVED

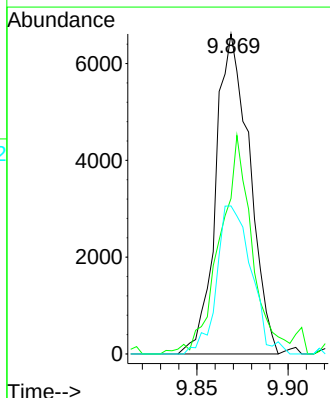
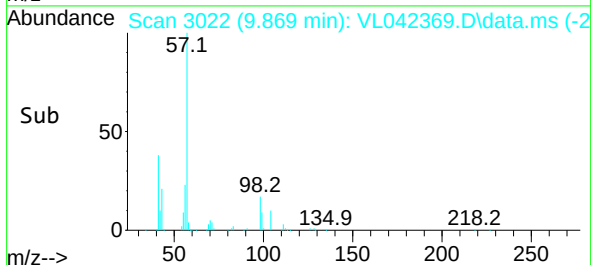
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

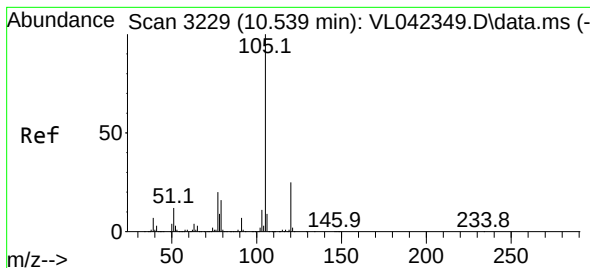


#61
Styrene
Concen: 0.384 ppbv
RT: 9.869 min Scan# 3022
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45



Tgt Ion:104 Resp: 8504
Ion Ratio Lower Upper
104 100
78 67.3 44.6 66.8#
103 47.5 37.4 56.0





#62

Isopropylbenzene

Concen: 0.989 ppbv

RT: 10.539 min Scan# 31

Delta R.T. -0.000 min

Lab File: VL042369.D

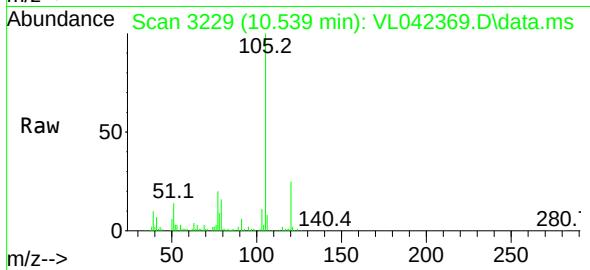
Acq: 17 Apr 2025 21:45

Instrument :

MSVOA_L

ClientSampleId :

IA-B2-5-03312025



Tgt Ion:105 Resp: 67289

Ion Ratio Lower Upper

105 100

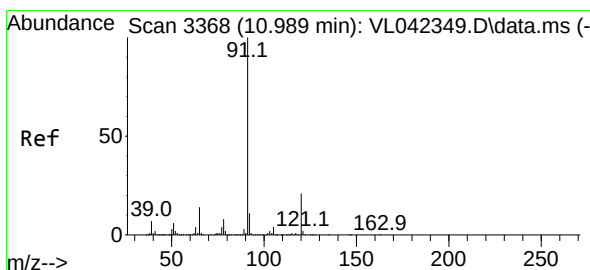
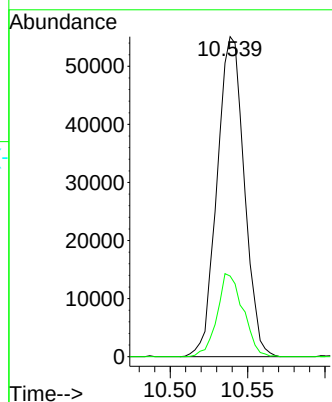
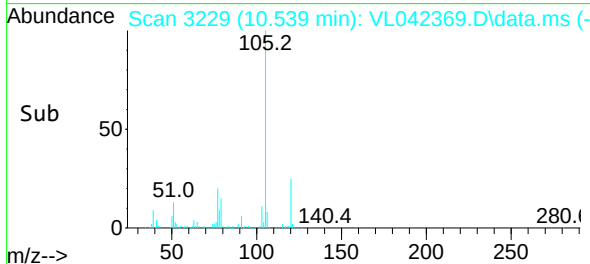
120 24.8 19.8 29.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#64

n-propylbenzene

Concen: 3.428 ppbv

RT: 10.989 min Scan# 3368

Delta R.T. -0.000 min

Lab File: VL042369.D

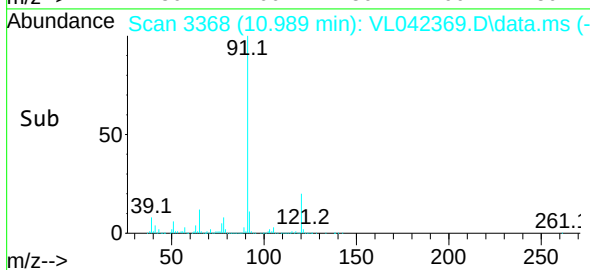
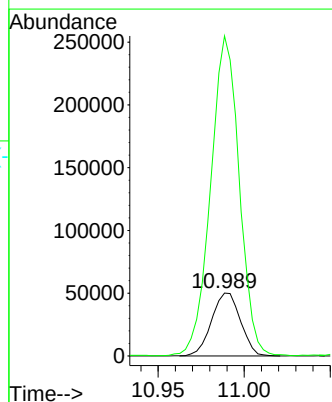
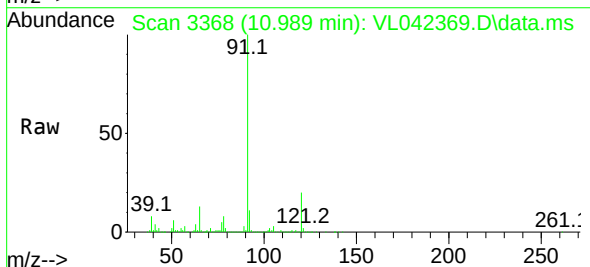
Acq: 17 Apr 2025 21:45

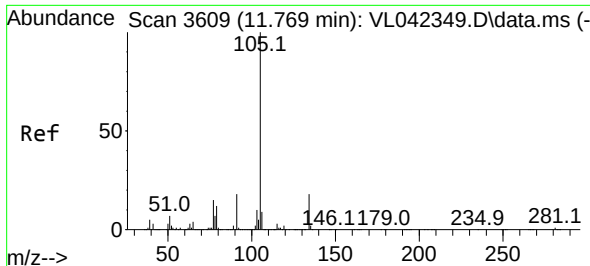
Tgt Ion:120 Resp: 58634

Ion Ratio Lower Upper

120 100

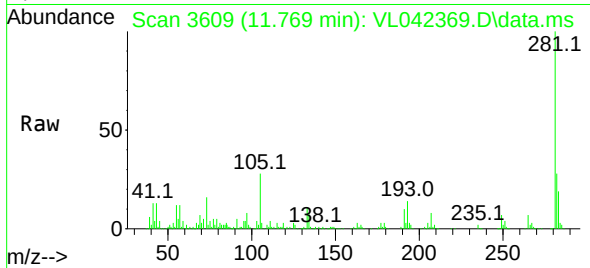
91 503.2 392.4 588.6





#67
 sec-Butylbenzene
 Concen: 0.241 ppbv
 RT: 11.769 min Scan# 3609
 Delta R.T. -0.000 min
 Lab File: VL042369.D
 Acq: 17 Apr 2025 21:45

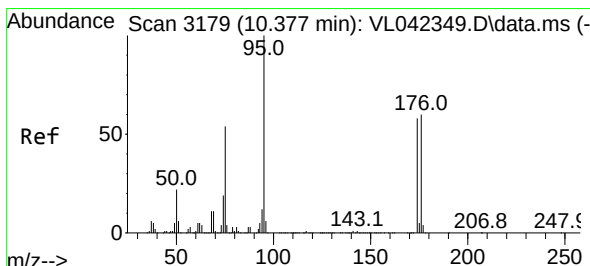
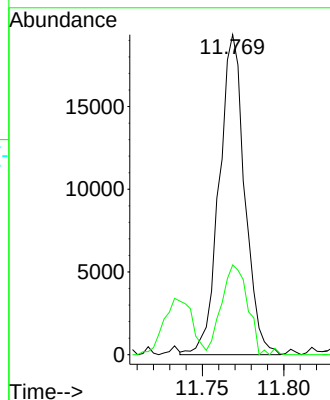
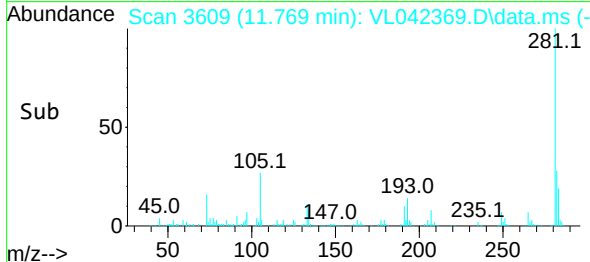
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-5-03312025



Tgt Ion: 105 Resp: 20990
 Ion Ratio Lower Upper
 105 100
 134 28.2 14.6 21.8

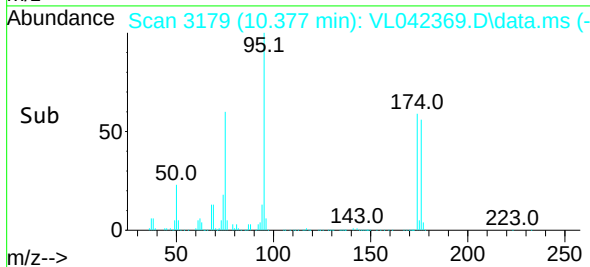
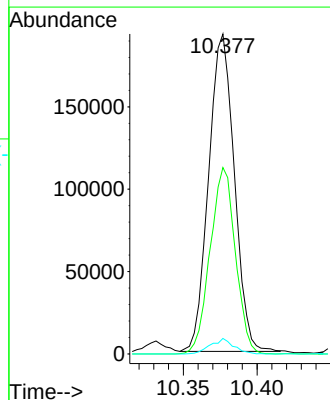
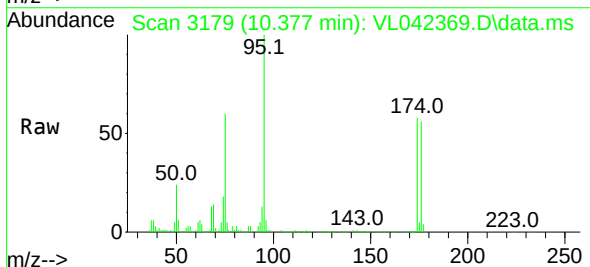
Manual Integrations
 APPROVED

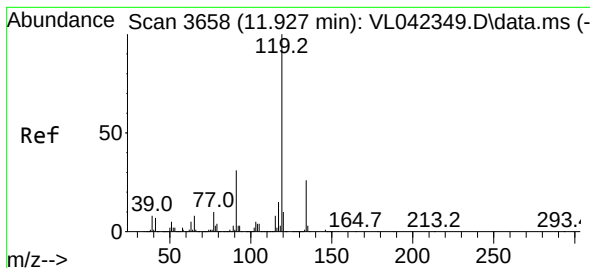
Reviewed By : Semsettin Yesilyurt 04/18/2025
 Supervised By : Mahesh Dadoda 04/18/2025



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.845 ppbv
 RT: 10.377 min Scan# 3179
 Delta R.T. -0.000 min
 Lab File: VL042369.D
 Acq: 17 Apr 2025 21:45

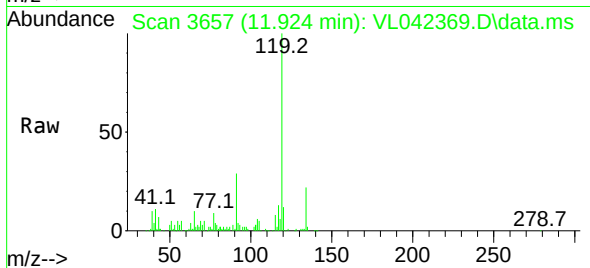
Tgt Ion: 95 Resp: 233305
 Ion Ratio Lower Upper
 95 100
 174 57.7 48.5 72.7
 175 4.4 3.7 5.5





#69
p-Isopropyltoluene
Concen: 0.440 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. -0.003 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

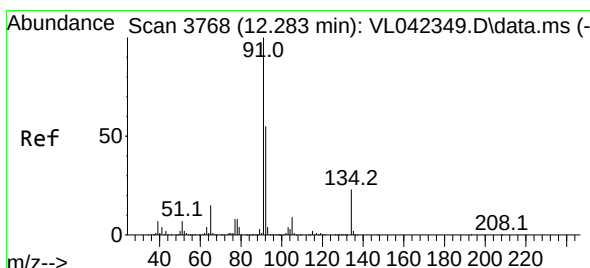
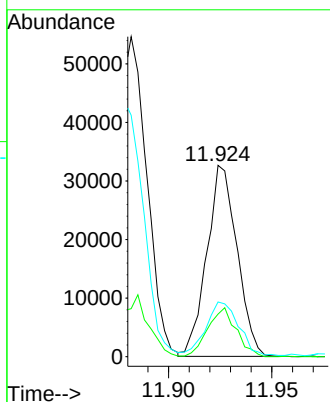
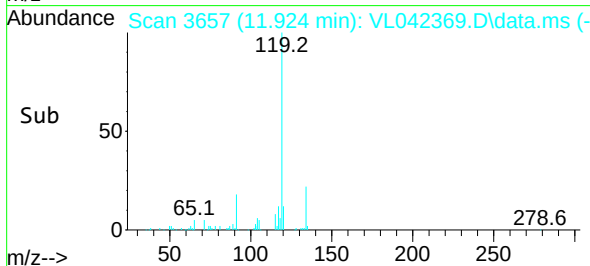
Instrument : MSVOA_L
ClientSampleId : IA-B2-5-03312025



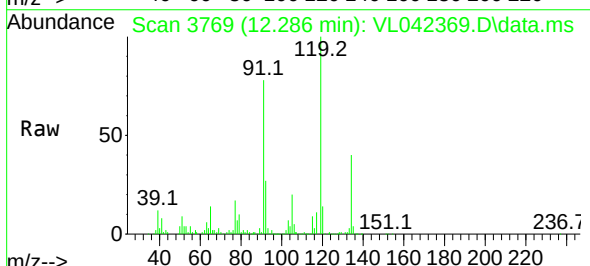
Tgt Ion: 119 Resp: 3327
Ion Ratio Lower Upper
119 100
134 24.2 20.0 30.0
91 29.1 24.4 36.6

Manual Integrations
APPROVED

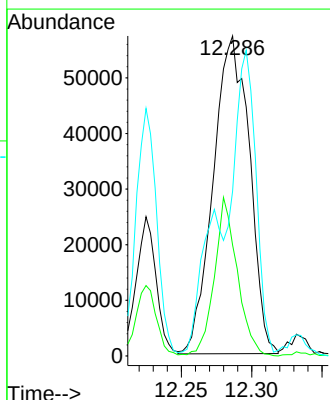
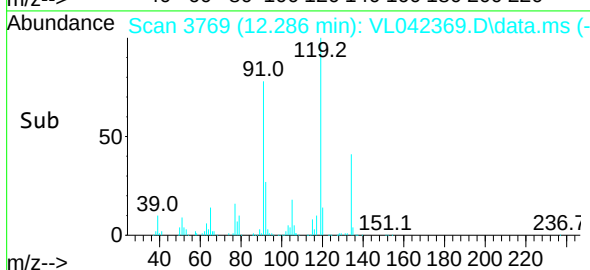
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

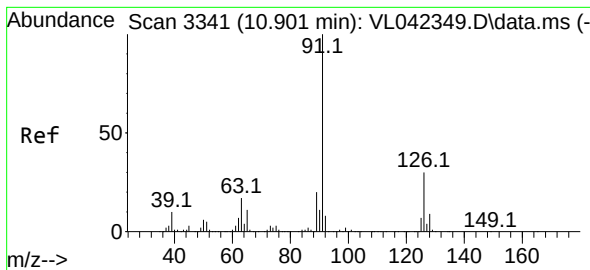


#70
n-Butylbenzene
Concen: 1.298 ppbv
RT: 12.286 min Scan# 3769
Delta R.T. 0.003 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45



Tgt Ion: 91 Resp: 102145
Ion Ratio Lower Upper
91 100
92 31.6 44.2 66.4#
134 91.7 18.2 27.4#





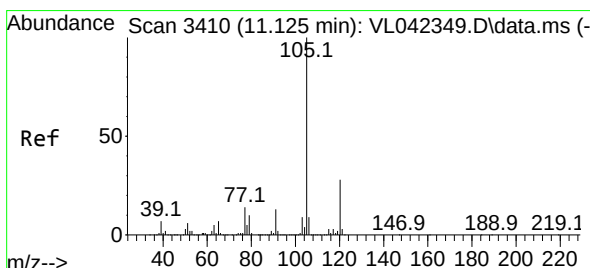
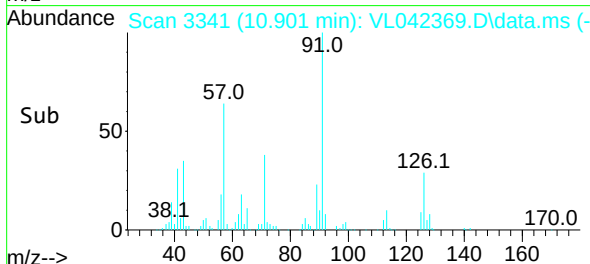
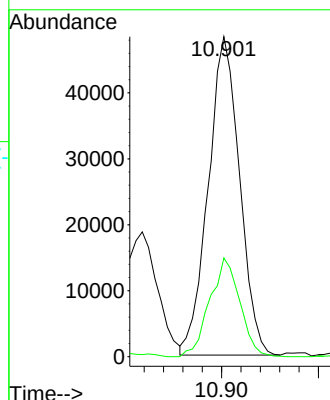
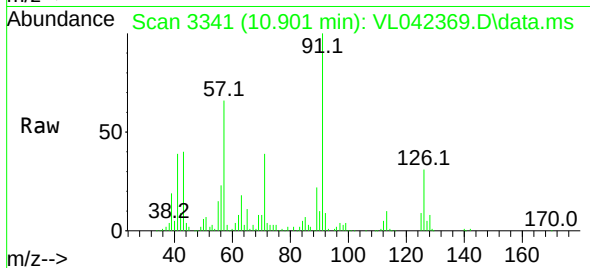
#71
2-Chlorotoluene
Concen: 1.015 ppbv
RT: 10.901 min Scan# 3341
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Instrument : MSVOA_L
ClientSampleId : IA-B2-5-03312025

Tgt Ion: 91 Resp: 54169
Ion Ratio Lower Upper
91 100
126 29.8 11.4 45.4

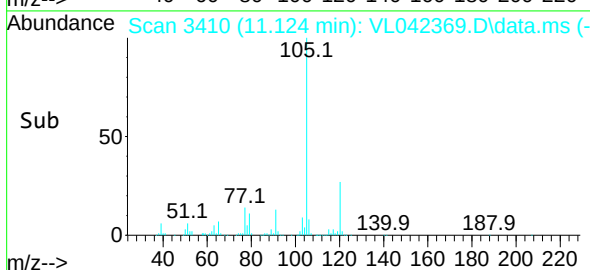
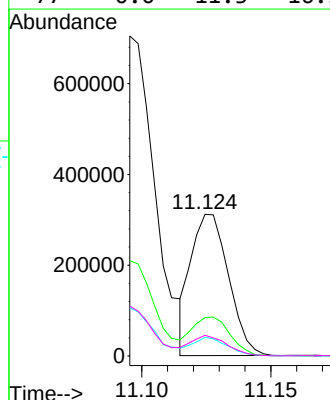
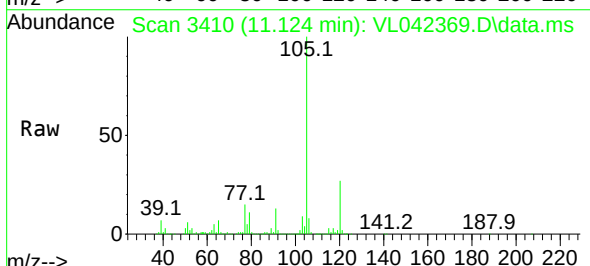
Manual Integrations
APPROVED

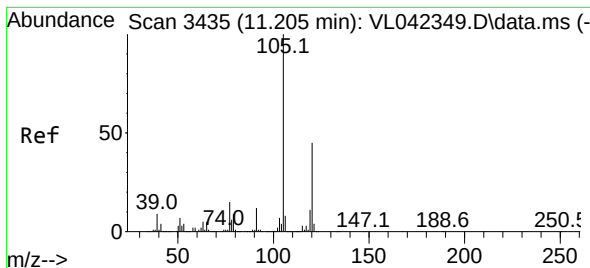
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#72
4-Ethyltoluene
Concen: 5.540 ppbv
RT: 11.124 min Scan# 3410
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion:105 Resp: 313941
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: 7.091 ppbv

RT: 11.205 min Scan# 3435

Delta R.T. -0.000 min

Lab File: VL042369.D

Acq: 17 Apr 2025 21:45

Instrument :

MSVOA_L

ClientSampleId :

IA-B2-5-03312025

Tgt Ion:105 Resp: 354735

Ion Ratio Lower Upper

105 100

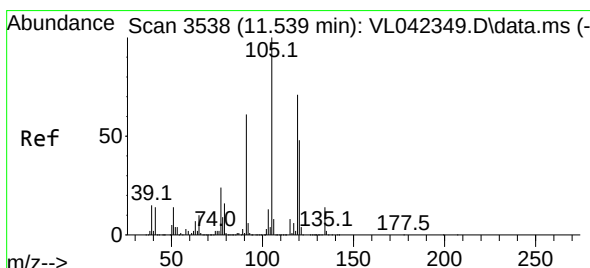
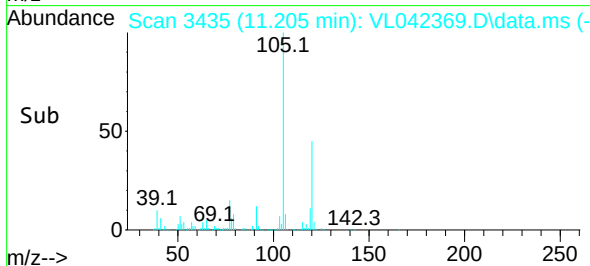
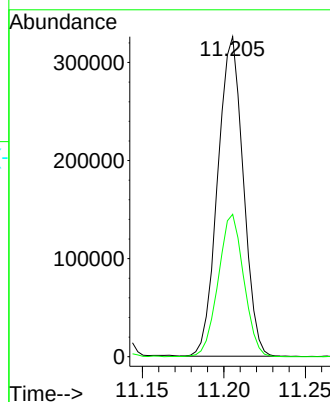
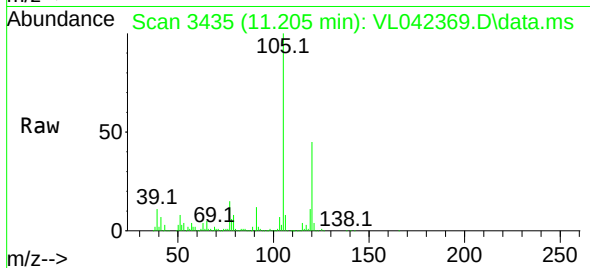
120 44.5 35.6 53.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#74

1,2,4-Trimethylbenzene

Concen: 19.707 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. -0.000 min

Lab File: VL042369.D

Acq: 17 Apr 2025 21:45

Tgt Ion:105 Resp: 1151476

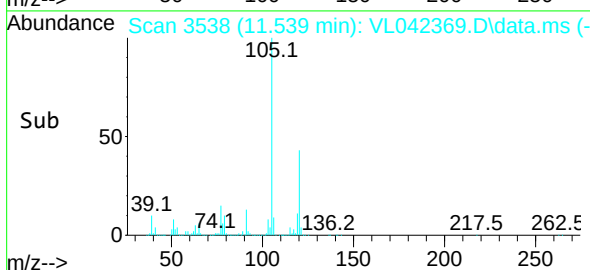
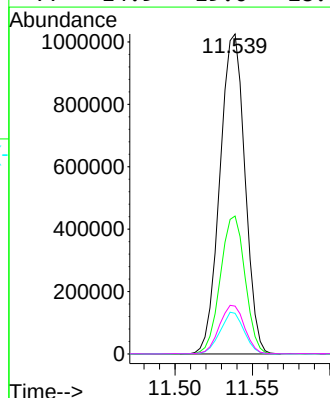
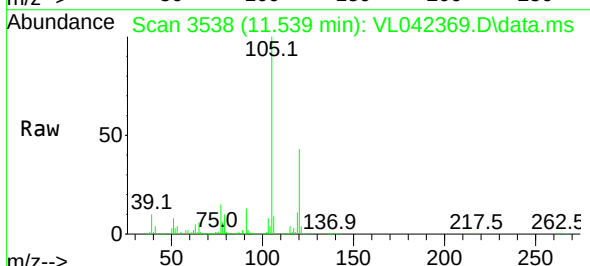
Ion Ratio Lower Upper

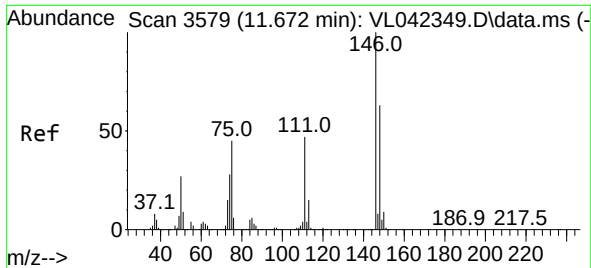
105 100

120 43.1 38.1 57.1

91 12.7 48.8 73.2#

77 14.9 19.0 28.4#





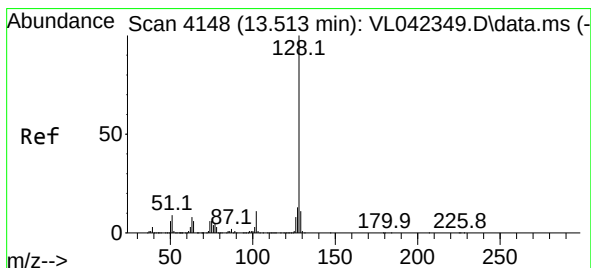
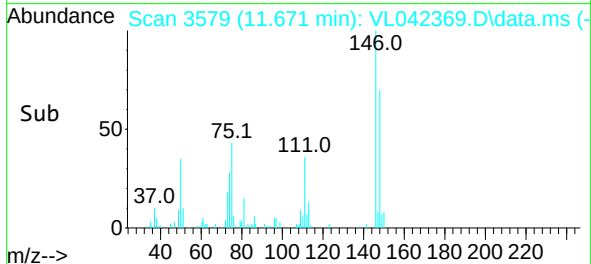
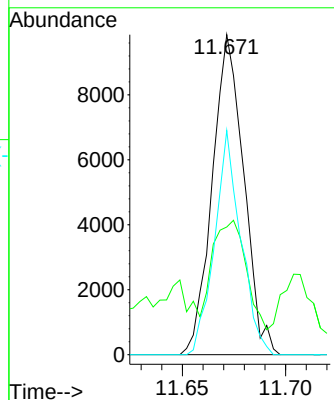
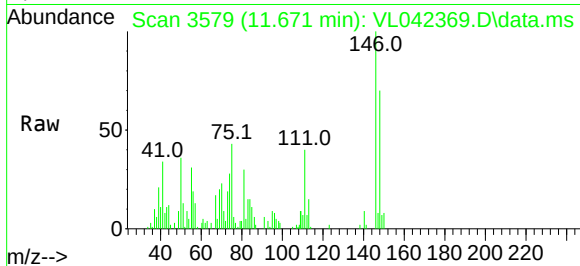
#76
1,4-Dichlorobenzene
Concen: 0.342 ppbv
RT: 11.671 min Scan# 3579
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Instrument : MSVOA_L
ClientSampleId : IA-B2-5-03312025

Tgt Ion:146 Resp: 10434
Ion Ratio Lower Upper
146 100
111 120.7 24.2 72.6
148 58.5 32.1 96.5

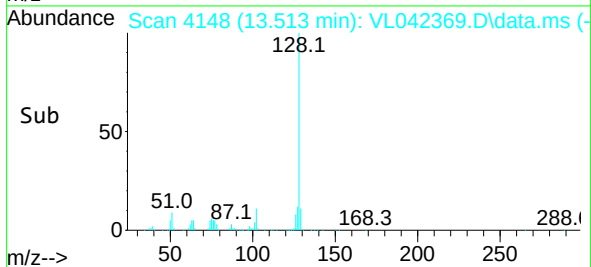
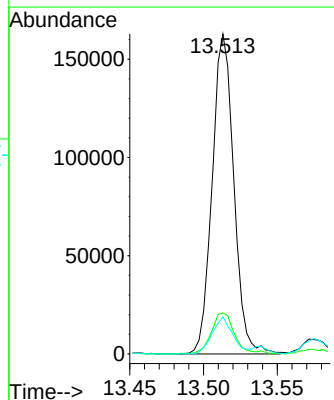
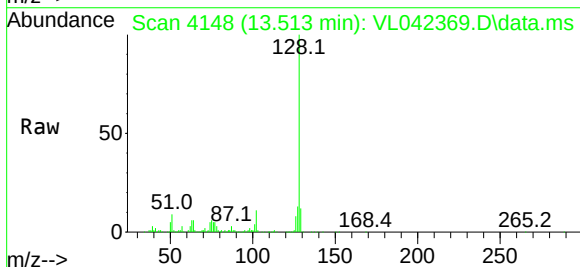
Manual Integrations
APPROVED

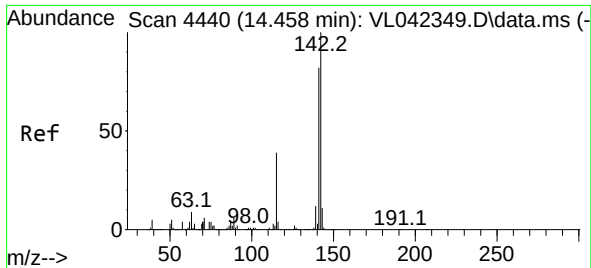
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#79
Naphthalene
Concen: 2.380 ppbv
RT: 13.513 min Scan# 4148
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

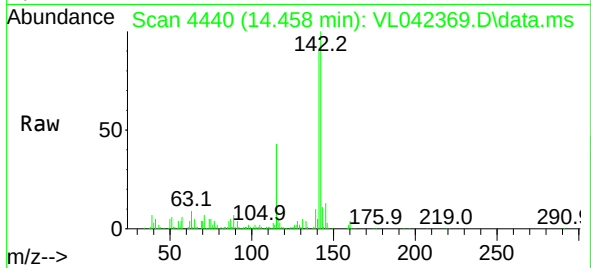
Tgt Ion:128 Resp: 166277
Ion Ratio Lower Upper
128 100
127 12.6 10.6 15.8
129 11.5 8.6 12.8





#80
Naphthalene, 2-methyl-
Concen: 1.280 ppbv
RT: 14.458 min Scan# 44
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

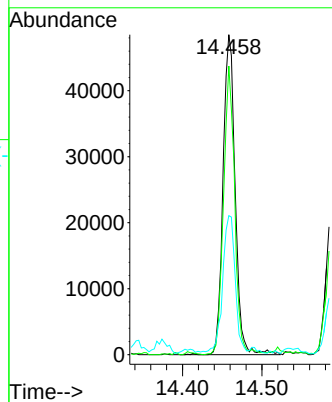
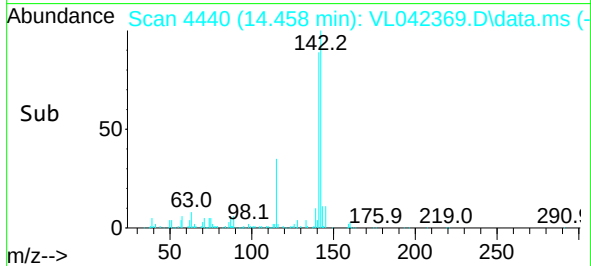
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025



Tgt Ion:142 Resp: 50980
Ion Ratio Lower Upper
142 100
141 83.1 66.8 100.2
115 47.9 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 : VL042369.D
 Acq On : 17 Apr 2025 21:45
 Operator : SY/MD
 Sample : Q1726-04
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-5-03312025

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: VL042369.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	4244153	4915829	68.83%	5.938%
2	1.466	423	426	429	rBV	225155	111689	1.56%	0.135%
3	1.489	429	433	435	rBV	285615	139514	1.95%	0.169%
4	1.525	440	444	450	rVV	1000132	512986	7.18%	0.620%
5	1.557	450	454	460	rVB	725111	404734	5.67%	0.489%
6	1.622	470	474	478	rVB	704903	382214	5.35%	0.462%
7	1.722	500	505	512	rVB	1069296	672553	9.42%	0.812%
8	1.835	535	540	548	rVB	7275099	6270999	87.81%	7.575%
9	1.887	548	556	560	rBV	711323	497825	6.97%	0.601%
10	2.059	598	609	614	rBV3	203730	198582	2.78%	0.240%
11	2.272	670	675	684	rVB	224226	183199	2.57%	0.221%
12	2.473	731	737	744	rVB	251207	248296	3.48%	0.300%
13	2.625	776	784	791	rVB	197366	213637	2.99%	0.258%
14	2.787	827	834	840	rBV2	428852	442911	6.20%	0.535%
15	2.826	840	846	858	rVB	435066	513733	7.19%	0.621%
16	3.111	927	934	946	rVB2	55911	73932	1.04%	0.089%
17	3.227	963	970	979	rVV	233958	301673	4.22%	0.364%
18	3.282	979	987	998	rVB2	165554	234997	3.29%	0.284%
19	3.651	1098	1101	1108	rVB2	82973	99427	1.39%	0.120%
20	3.687	1108	1112	1124	rVB	107733	155661	2.18%	0.188%
21	3.771	1124	1138	1151	rVB5	41147	90789	1.27%	0.110%
22	3.855	1151	1164	1176	rBV3	122364	210152	2.94%	0.254%
23	3.959	1182	1196	1207	rBV	564442	905161	12.67%	1.093%
24	4.052	1207	1225	1232	rVV	504056	941843	13.19%	1.138%
25	4.095	1232	1238	1250	rVB2	217371	383122	5.36%	0.463%
26	4.269	1278	1292	1306	rVB3	545792	1033107	14.47%	1.248%
27	4.441	1332	1345	1357	rBV3	110905	215748	3.02%	0.261%
28	4.525	1357	1371	1385	rVV4	106487	325261	4.55%	0.393%
29	4.638	1385	1406	1424	rVB	1243989	2952769	41.35%	3.567%
30	4.923	1479	1494	1499	rBV7	70394	148431	2.08%	0.179%
31	4.978	1499	1511	1525	rVV3	481233	1080254	15.13%	1.305%
32	5.043	1525	1531	1552	rVB3	67527	178564	2.50%	0.216%
33	5.302	1595	1611	1612	rBV4	68340	104124	1.46%	0.126%
34	5.308	1612	1613	1627	rVB4	68687	76341	1.07%	0.092%
35	5.661	1699	1722	1743	rVB4	291458	856162	11.99%	1.034%
36	5.784	1746	1760	1774	rBV7	46069	133995	1.88%	0.162%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042369.D
 Acq On : 17 Apr 2025 21:45
 Operator : SY/MD
 Sample : Q1726-04
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-5-03312025

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	6.130	1849	1867	1876	rBV3	76316	196070	2.75%	0.237%
38	6.198	1876	1888	1901	rVV5	197181	631040	8.84%	0.762%
39	6.266	1901	1909	1928	rVB5	210378	545256	7.63%	0.659%
40	6.467	1956	1971	1984	rBV4	65513	163096	2.28%	0.197%
41	6.726	2031	2051	2063	rBV8	48575	147082	2.06%	0.178%
42	6.826	2065	2082	2098	rVV3	653681	1613940	22.60%	1.950%
43	6.936	2098	2116	2151	rVB2	3029407	7141594	100.00%	8.627%
44	7.185	2174	2193	2206	rBV2	250629	555086	7.77%	0.671%
45	7.276	2210	2221	2230	rVB8	53517	117223	1.64%	0.142%
46	7.376	2235	2252	2260	rBV2	370728	722729	10.12%	0.873%
47	7.425	2266	2267	2287	rVB4	126397	201439	2.82%	0.243%
48	7.532	2287	2300	2308	rVV6	35125	80217	1.12%	0.097%
49	7.600	2308	2321	2338	rVV5	380010	1130627	15.83%	1.366%
50	7.681	2338	2346	2358	rVB6	117912	248697	3.48%	0.300%
51	7.894	2399	2412	2432	rBV3	346423	816341	11.43%	0.986%
52	7.978	2432	2438	2443	rVV5	74761	124177	1.74%	0.150%
53	8.008	2443	2447	2459	rVB7	62356	120696	1.69%	0.146%
54	8.131	2475	2485	2503	rVB5	154589	330598	4.63%	0.399%
55	8.231	2503	2516	2523	rVV5	103725	200174	2.80%	0.242%
56	8.302	2523	2538	2556	rVB4	590503	1191798	16.69%	1.440%
57	8.438	2570	2580	2586	rBV2	80160	128217	1.80%	0.155%
58	8.470	2586	2590	2604	rVB7	61914	107390	1.50%	0.130%
59	8.691	2649	2658	2664	rBV3	71726	102222	1.43%	0.123%
60	8.878	2702	2716	2726	rBV	747686	1206739	16.90%	1.458%
61	8.937	2726	2734	2739	rVV3	90214	125418	1.76%	0.152%
62	8.982	2739	2748	2763	rVB5	217756	513831	7.19%	0.621%
63	9.063	2763	2773	2778	rBV7	53599	96365	1.35%	0.116%
64	9.098	2778	2784	2791	rVB3	81377	109020	1.53%	0.132%
65	9.144	2791	2798	2812	rBV	173709	267570	3.75%	0.323%
66	9.354	2853	2863	2877	rBV	1112097	1662379	23.28%	2.008%
67	9.416	2877	2882	2892	rVB4	79017	120142	1.68%	0.145%
68	9.532	2907	2918	2935	rVB	2750167	5285848	74.01%	6.385%
69	9.658	2949	2957	2964	rBV5	58840	88853	1.24%	0.107%
70	9.729	2967	2979	2991	rVB5	290104	631460	8.84%	0.763%
71	9.859	3003	3019	3027	rBV3	324926	512971	7.18%	0.620%
72	9.963	3037	3051	3062	rBV	1506120	2145003	30.04%	2.591%
73	10.008	3062	3065	3074	rVB4	76224	89778	1.26%	0.108%
74	10.079	3074	3087	3088	rBV6	80605	112666	1.58%	0.136%
75	10.102	3088	3094	3100	rVV2	156472	228504	3.20%	0.276%
76	10.137	3100	3105	3116	rVB6	81396	142043	1.99%	0.172%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042369.D
 Acq On : 17 Apr 2025 21:45
 Operator : SY/MD
 Sample : Q1726-04
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-5-03312025

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	10.351	3161	3171	3174	rBV	505761	608325	8.52%	0.735%
78	10.377	3174	3179	3189	rVV	905879	1125719	15.76%	1.360%
79	10.432	3189	3196	3202	rVB3	86216	110468	1.55%	0.133%
80	10.539	3220	3229	3236	rBV	159156	206344	2.89%	0.249%
81	10.768	3288	3300	3305	rBV3	100388	164963	2.31%	0.199%
82	10.856	3321	3327	3334	rVB2	219935	267843	3.75%	0.324%
83	10.901	3334	3341	3353	rVB2	272879	339619	4.76%	0.410%
84	10.989	3353	3368	3382	rVB	555349	796230	11.15%	0.962%
85	11.095	3392	3401	3407	rBV	1938826	2243821	31.42%	2.711%
86	11.124	3407	3410	3418	rVB	814978	821890	11.51%	0.993%
87	11.205	3418	3435	3443	rBV	1011248	1204174	16.86%	1.455%
88	11.257	3443	3451	3454	rBV3	82479	94815	1.33%	0.115%
89	11.280	3454	3458	3462	rVV2	144497	156141	2.19%	0.189%
90	11.312	3462	3468	3471	rVV2	283102	342761	4.80%	0.414%
91	11.338	3471	3476	3483	rVB	683382	742974	10.40%	0.898%
92	11.403	3490	3496	3501	rBV2	195886	219871	3.08%	0.266%
93	11.425	3501	3503	3511	rVB5	82730	85016	1.19%	0.103%
94	11.539	3528	3538	3550	rBV	3068653	3495948	48.95%	4.223%
95	11.591	3550	3554	3565	rVB4	65078	90540	1.27%	0.109%
96	11.756	3598	3605	3608	rBV	355275	419208	5.87%	0.506%
97	11.775	3608	3611	3624	rVB	409833	438742	6.14%	0.530%
98	11.879	3635	3643	3651	rVB2	855240	929750	13.02%	1.123%
99	11.927	3651	3658	3668	rBV4	91029	132425	1.85%	0.160%
100	12.018	3677	3686	3690	rBV	506992	558981	7.83%	0.675%
101	12.040	3690	3693	3701	rVV2	282791	289101	4.05%	0.349%
102	12.086	3701	3707	3717	rVB3	151199	207554	2.91%	0.251%
103	12.170	3726	3733	3736	rBV2	117762	123668	1.73%	0.149%
104	12.196	3736	3741	3745	rVV2	219375	228760	3.20%	0.276%
105	12.225	3745	3750	3757	rVV2	628187	647009	9.06%	0.782%
106	12.270	3757	3764	3767	rVV3	274736	324486	4.54%	0.392%
107	12.296	3767	3772	3778	rVB2	504266	547602	7.67%	0.662%
108	12.403	3793	3805	3811	rBV3	230127	300956	4.21%	0.364%
109	12.439	3811	3816	3822	rVV	215548	239508	3.35%	0.289%
110	12.477	3822	3828	3831	rVV3	121229	136664	1.91%	0.165%
111	12.507	3831	3837	3840	rVV2	460477	530191	7.42%	0.640%
112	12.523	3840	3842	3846	rVV	365006	334926	4.69%	0.405%
113	12.545	3846	3849	3855	rVB3	250525	227954	3.19%	0.275%
114	12.587	3855	3862	3875	rBV3	666400	899143	12.59%	1.086%
115	12.652	3875	3882	3894	rVB6	133260	217891	3.05%	0.263%
116	12.798	3921	3927	3932	rVV2	207351	201399	2.82%	0.243%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042369.D
 Acq On : 17 Apr 2025 21:45
 Operator : SY/MD
 Sample : Q1726-04
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-5-03312025

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	12.827	3932	3936	3942	rVB	272824	251040	3.52%	0.303%
118	12.918	3956	3964	3969	rBV	354418	358605	5.02%	0.433%
119	12.953	3969	3975	3984	rVB	467111	466350	6.53%	0.563%
120	13.102	4014	4021	4024	rBV3	115445	125699	1.76%	0.152%
121	13.128	4024	4029	4037	rVB2	345443	379356	5.31%	0.458%
122	13.167	4037	4041	4045	rBV2	113412	104409	1.46%	0.126%
123	13.225	4053	4059	4064	rBV	416634	446065	6.25%	0.539%
124	13.257	4064	4069	4075	rVV3	171200	220152	3.08%	0.266%
125	13.300	4075	4082	4086	rVV3	57408	71973	1.01%	0.087%
126	13.332	4086	4092	4101	rVV5	177151	257850	3.61%	0.311%
127	13.384	4101	4108	4116	rVV2	605242	704005	9.86%	0.850%
128	13.426	4116	4121	4124	rVV2	83214	79094	1.11%	0.096%
129	13.448	4124	4128	4134	rVB	102327	97468	1.36%	0.118%
130	13.513	4143	4148	4153	rBV	325590	302243	4.23%	0.365%
131	13.575	4161	4167	4170	rBV3	176466	183907	2.58%	0.222%
132	13.591	4170	4172	4178	rVV3	110527	96464	1.35%	0.117%
133	13.636	4178	4186	4189	rVV5	68862	96433	1.35%	0.116%
134	13.665	4189	4195	4205	rVV3	236463	330361	4.63%	0.399%
135	13.727	4207	4214	4219	rVV	188640	191605	2.68%	0.231%
136	13.753	4219	4222	4231	rVB5	65332	76891	1.08%	0.093%
137	13.979	4287	4292	4298	rVB4	75324	82994	1.16%	0.100%
138	14.112	4321	4333	4339	rVB5	94247	121197	1.70%	0.146%
139	14.228	4360	4369	4373	rBV5	65817	89501	1.25%	0.108%
140	14.458	4431	4440	4446	rBV	198921	215021	3.01%	0.260%
141	14.523	4454	4460	4473	rVB4	101242	123630	1.73%	0.149%
142	14.588	4473	4480	4485	rBV2	89682	91625	1.28%	0.111%

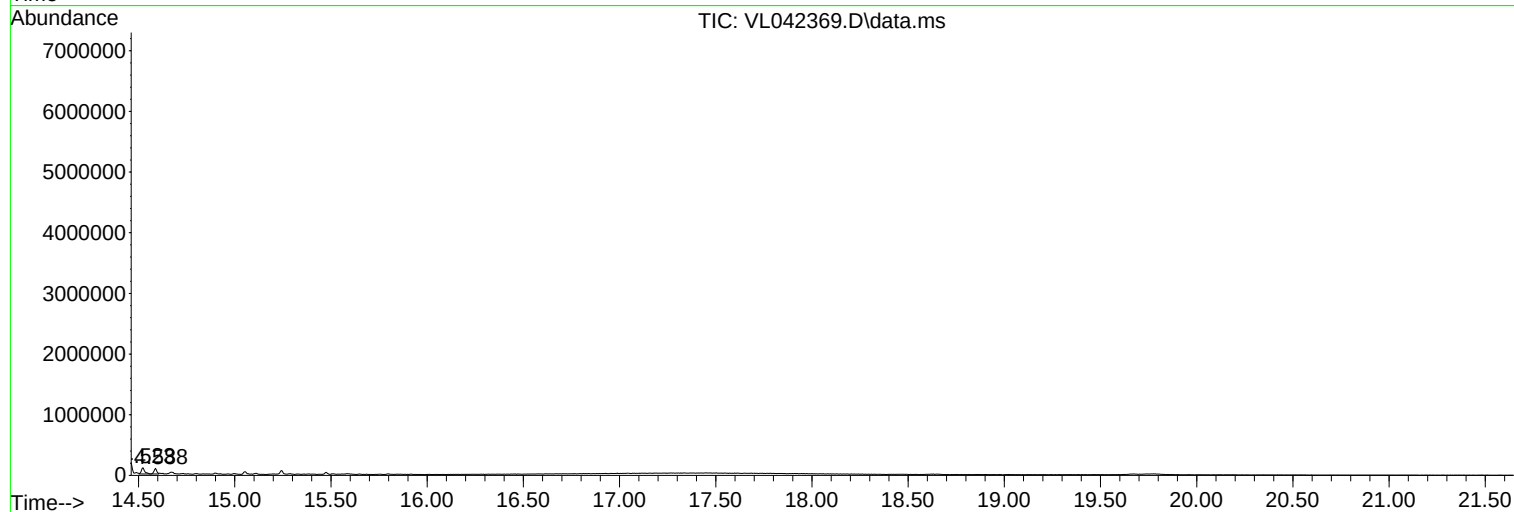
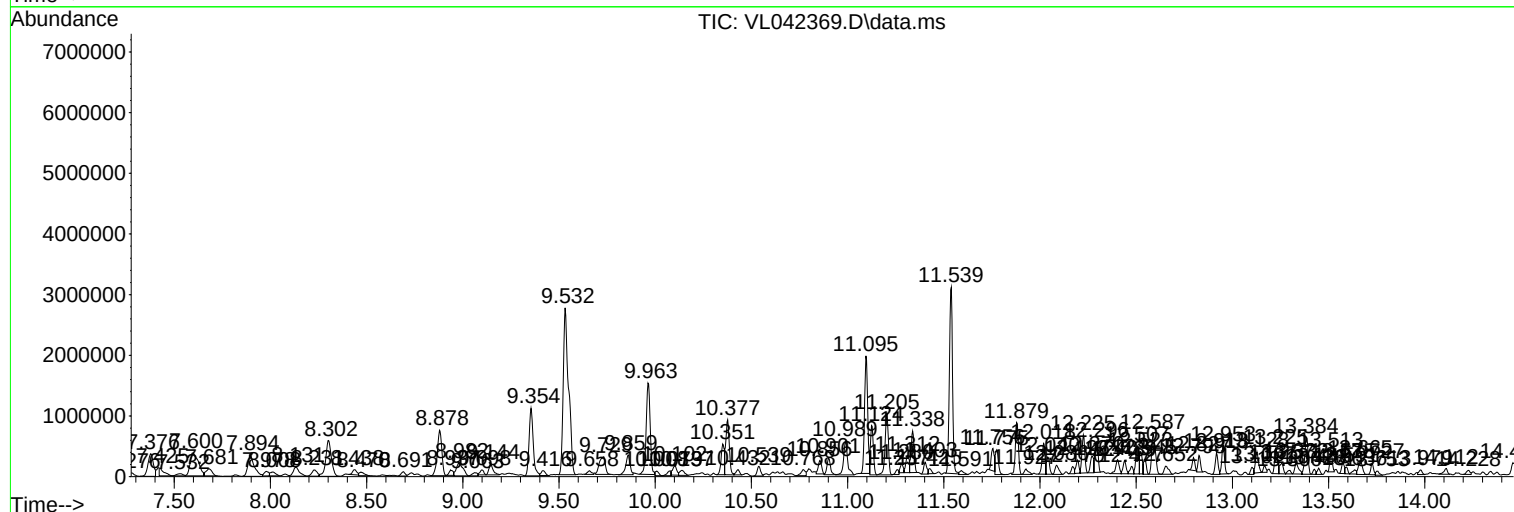
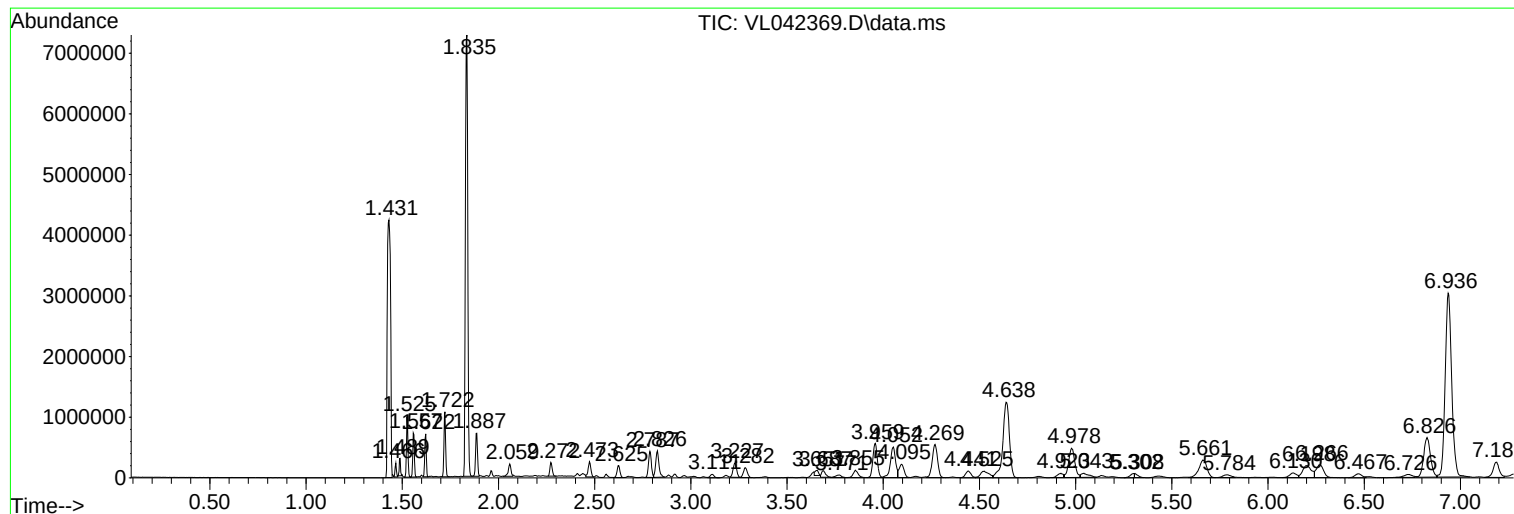
Sum of corrected areas: 82781831

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042369.D
Acq On : 17 Apr 2025 21:45
Operator : SY/MD
Sample : Q1726-04
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

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 : VL042369.D
Acq On : 17 Apr 2025 21:45
Operator : SY/MD
Sample : Q1726-04
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

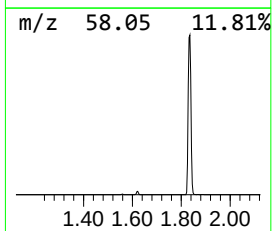
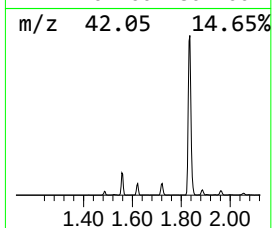
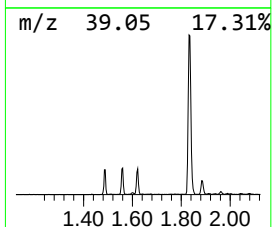
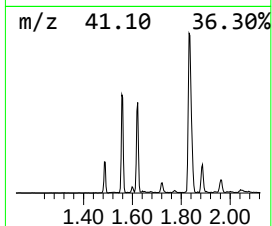
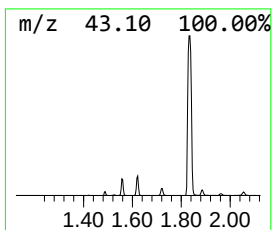
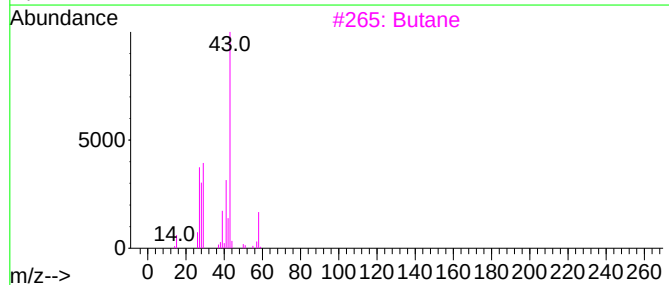
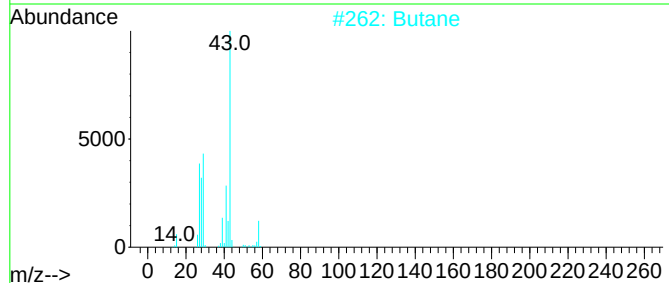
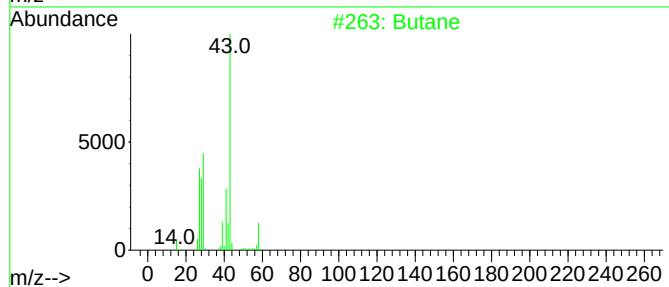
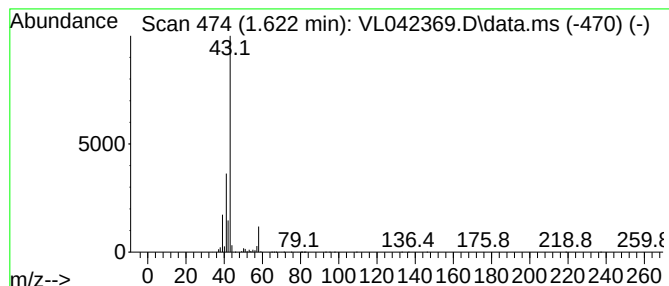
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 1 Butane Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.622	8.63 ppbv	382214	Bromochloromethane	2.787

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane			58	C4H10	000106-97-8	59
2	Butane			58	C4H10	000106-97-8	59
3	Butane			58	C4H10	000106-97-8	59
4	Butane			58	C4H10	000106-97-8	59
5	Isobutane			58	C4H10	000075-28-5	9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042369.D
Acq On : 17 Apr 2025 21:45
Operator : SY/MD
Sample : Q1726-04
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

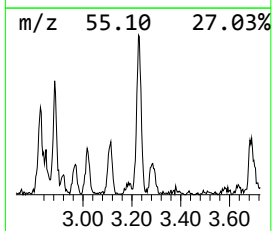
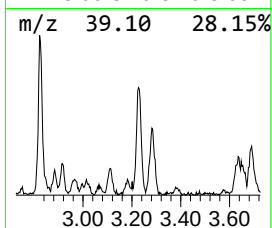
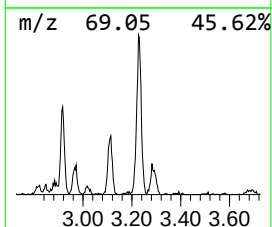
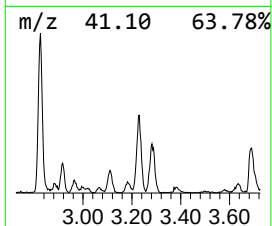
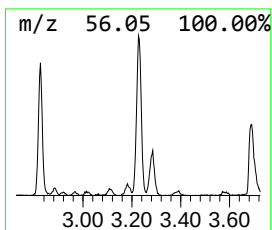
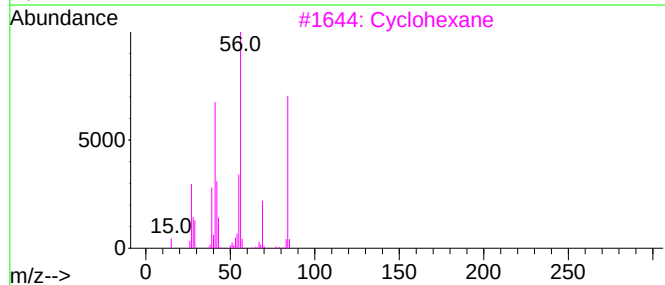
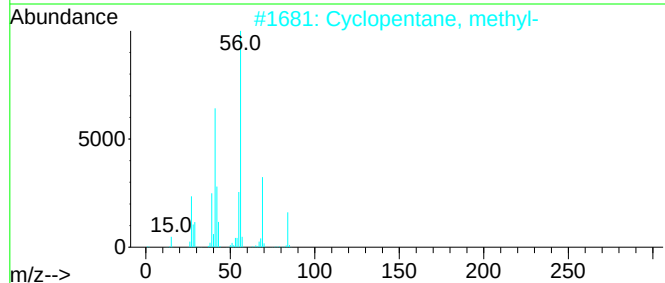
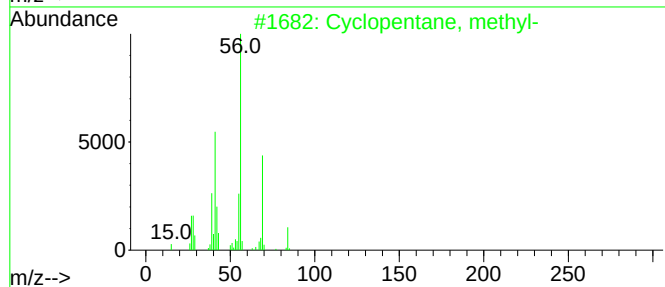
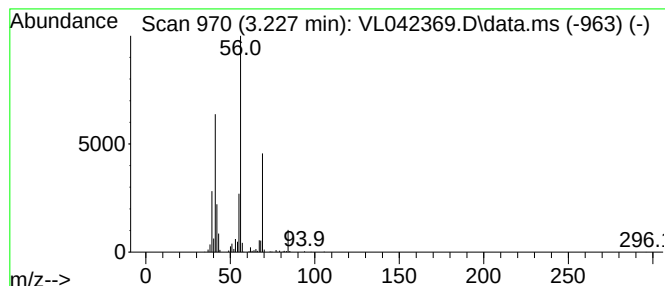
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 2 Cyclopentane, methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.227	6.81 ppbv	301673	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	86
3		Cyclohexane	84	C6H12	000110-82-7	78
4		Cyclohexane	84	C6H12	000110-82-7	78
5		Cyclopentane, methyl-	84	C6H12	000096-37-7	72



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042369.D
Acq On : 17 Apr 2025 21:45
Operator : SY/MD
Sample : Q1726-04
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

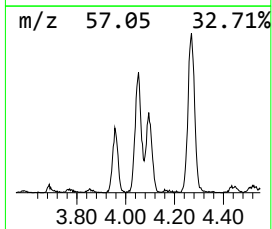
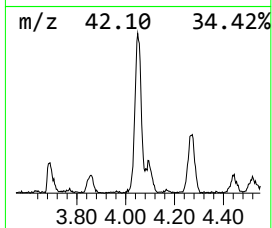
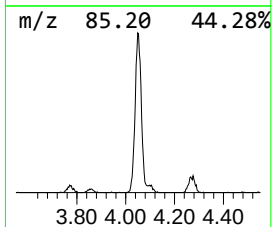
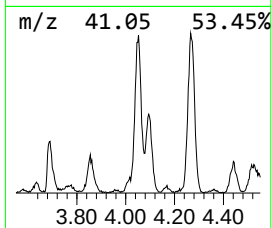
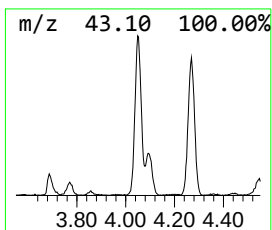
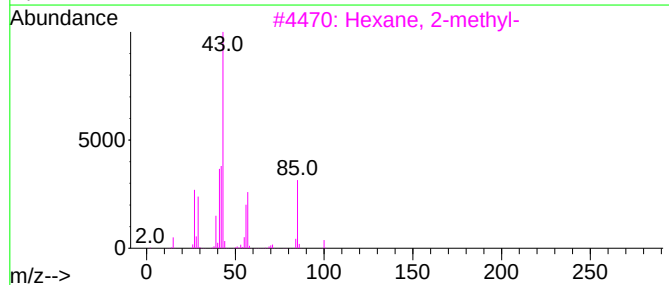
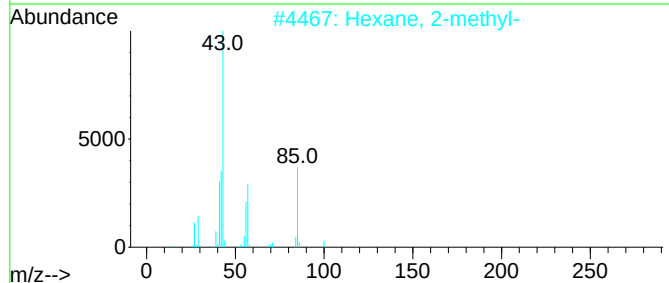
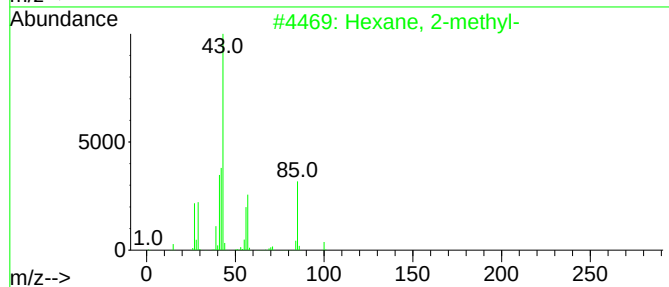
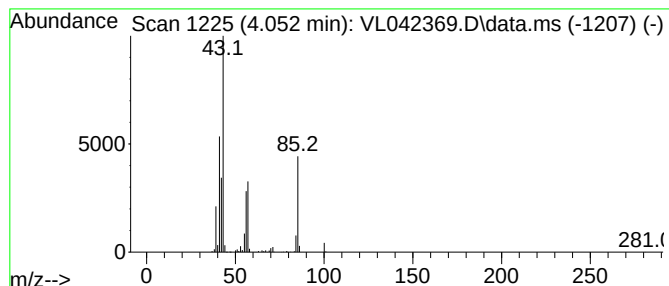
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.052	10.41 ppbv	941843	1,4-Difluorobenzene	3.959

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Hexane, 2-methyl-	100	C7H16	000591-76-4	93
2			Hexane, 2-methyl-	100	C7H16	000591-76-4	90
3			Hexane, 2-methyl-	100	C7H16	000591-76-4	90
4			Octane	114	C8H18	000111-65-9	59
5			Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	58



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042369.D
Acq On : 17 Apr 2025 21:45
Operator : SY/MD
Sample : Q1726-04
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

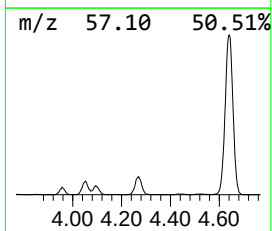
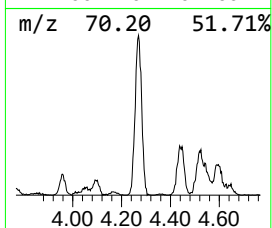
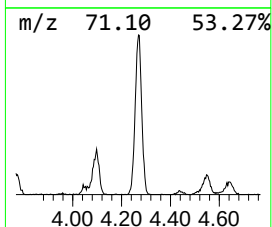
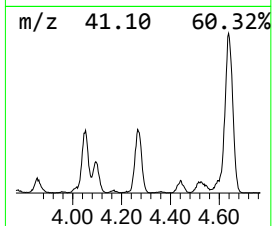
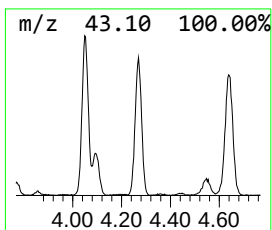
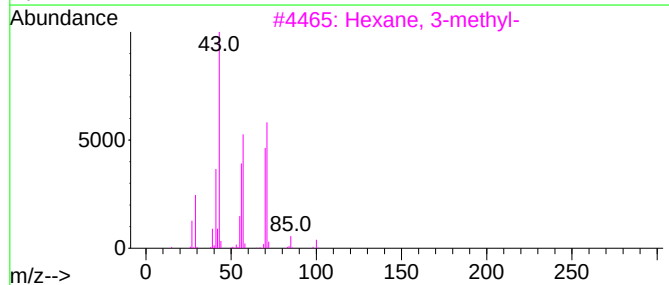
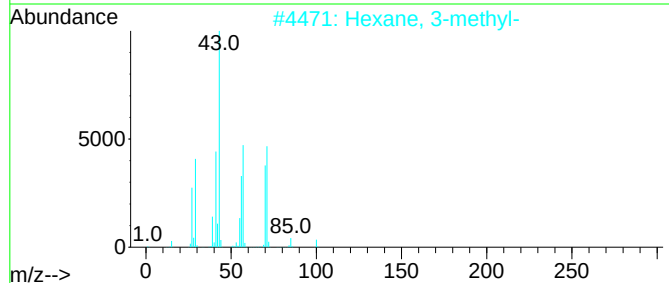
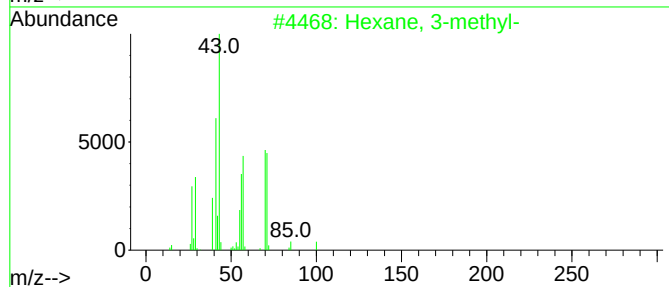
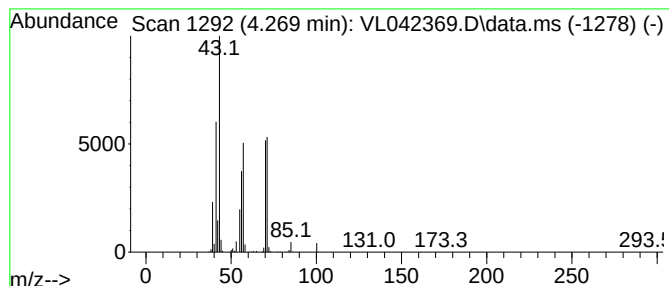
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.269	11.41 ppbv	1033110	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			Hexane, 3-methyl-	100	C7H16	000589-34-4	91
4			Heptane	100	C7H16	000142-82-5	64
5			Hexane, 2,3-dimethyl-	114	C8H18	000584-94-1	64



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042369.D
Acq On : 17 Apr 2025 21:45
Operator : SY/MD
Sample : Q1726-04
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

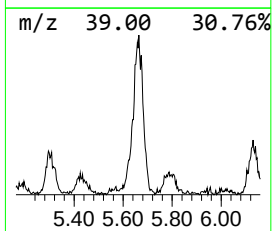
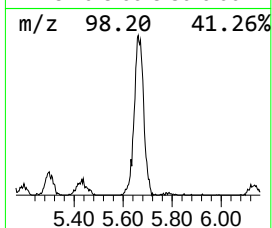
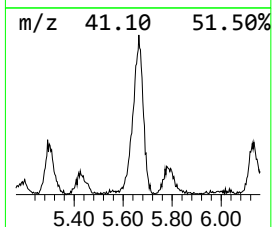
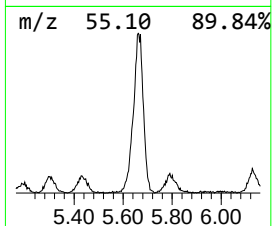
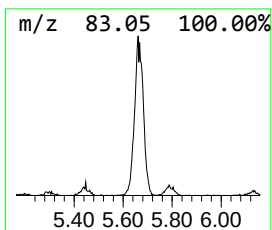
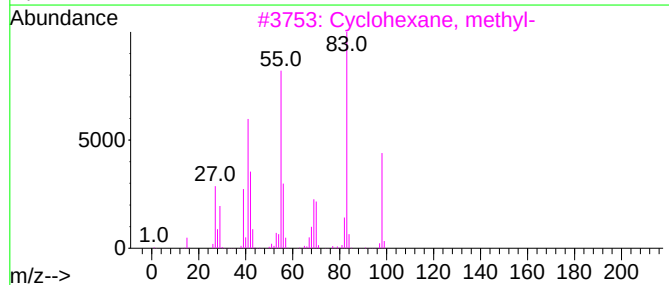
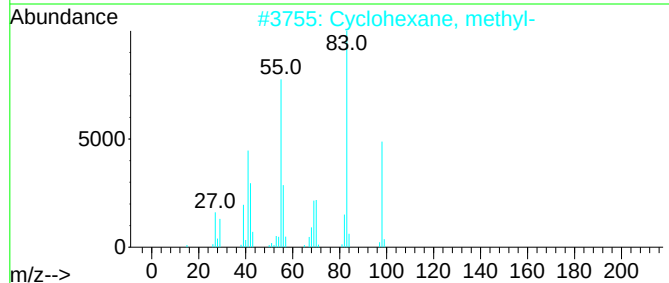
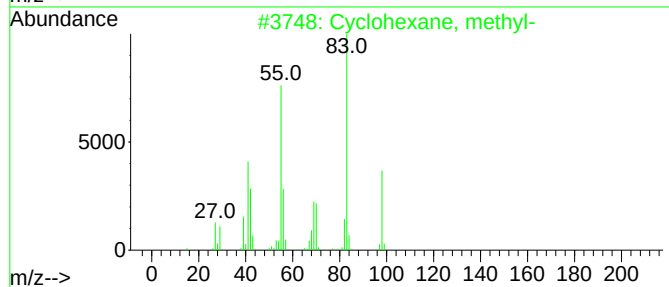
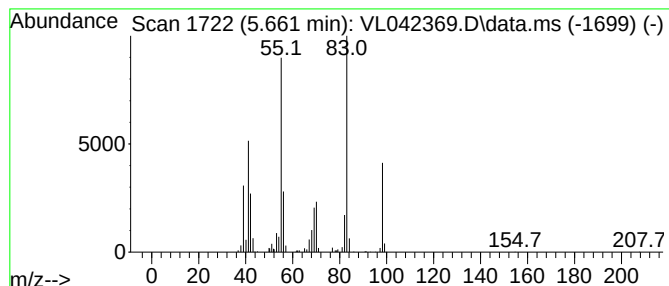
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 5 Cyclohexane, methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.661	9.46 ppbv	856162	1,4-Difluorobenzene	3.959

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Cyclohexane, methyl-	98	C7H14	000108-87-2	91
2			Cyclohexane, methyl-	98	C7H14	000108-87-2	91
3			Cyclohexane, methyl-	98	C7H14	000108-87-2	91
4			Cyclohexane, methyl-	98	C7H14	000108-87-2	70
5			Cyclohexane, methyl-	98	C7H14	000108-87-2	64



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042369.D
Acq On : 17 Apr 2025 21:45
Operator : SY/MD
Sample : Q1726-04
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

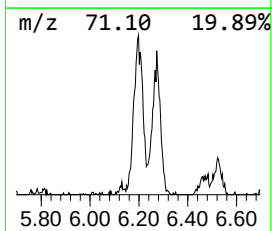
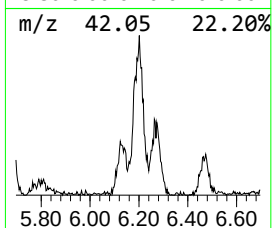
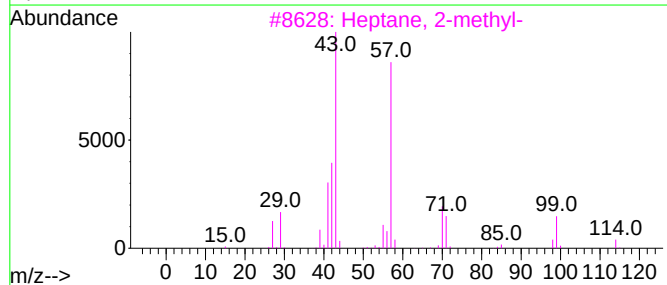
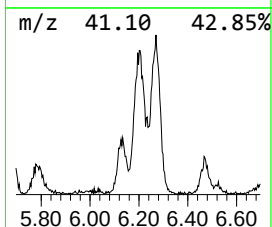
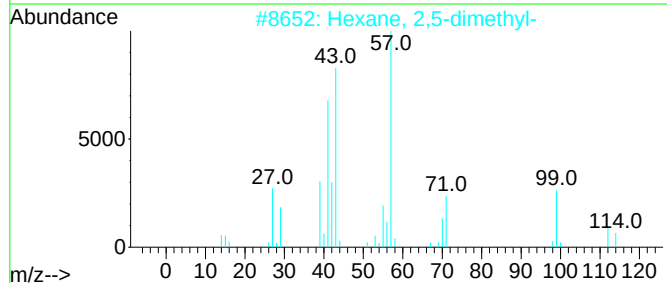
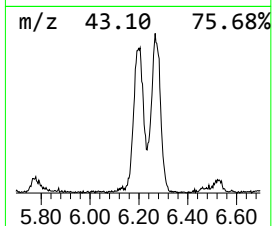
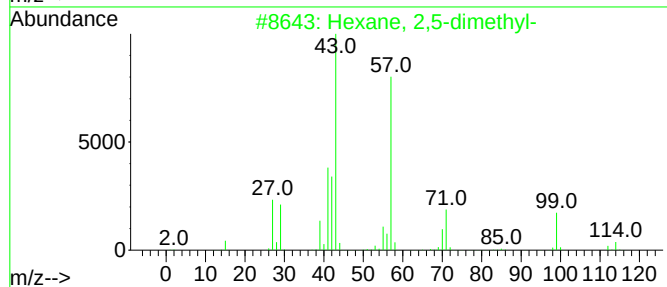
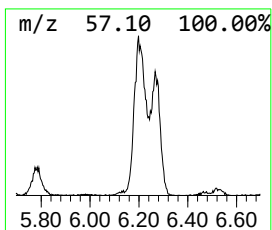
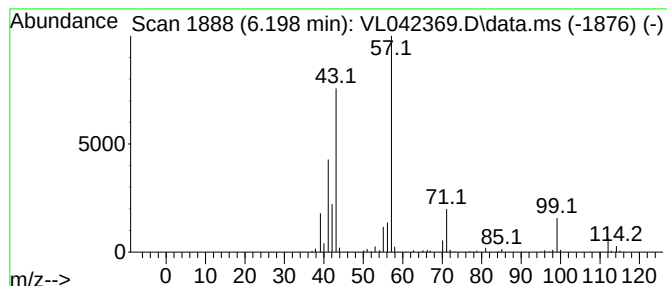
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 6 Hexane, 2,5-dimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.198	6.97 ppbv	631040	1,4-Difluorobenzene	3.959

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	64
2			Hexane, 2,5-dimethyl-	114	C8H18	000592-13-2	50
3			Heptane, 2-methyl-	114	C8H18	000592-27-8	50
4			Heptane, 4-propyl-	142	C10H22	003178-29-8	40
5			Heptane, 2-methyl-	114	C8H18	000592-27-8	38



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042369.D
Acq On : 17 Apr 2025 21:45
Operator : SY/MD
Sample : Q1726-04
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

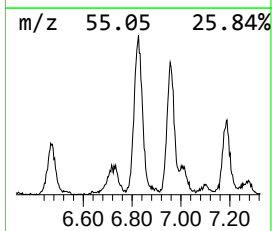
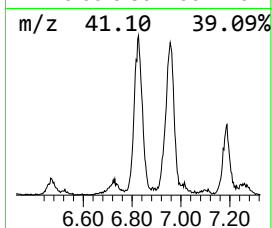
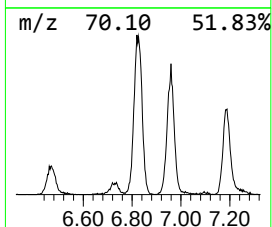
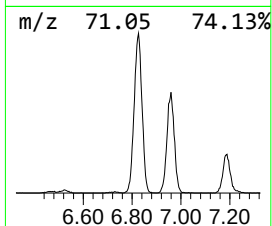
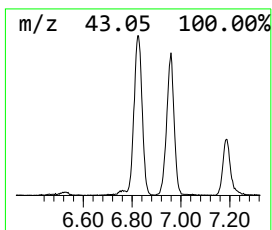
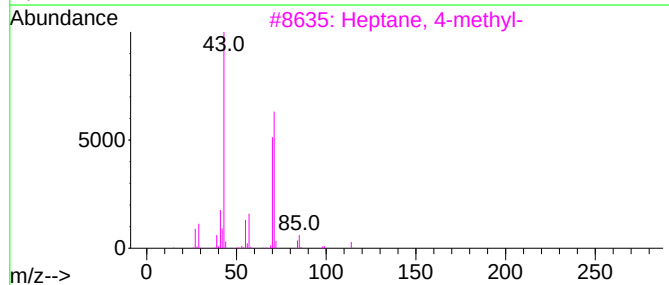
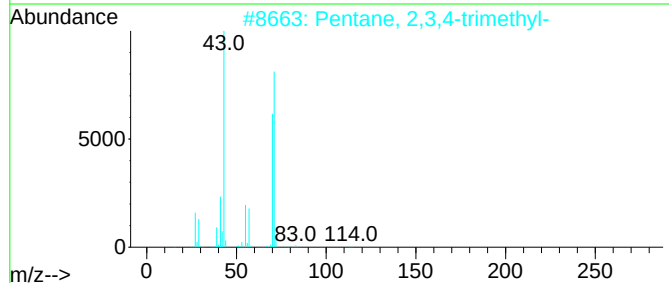
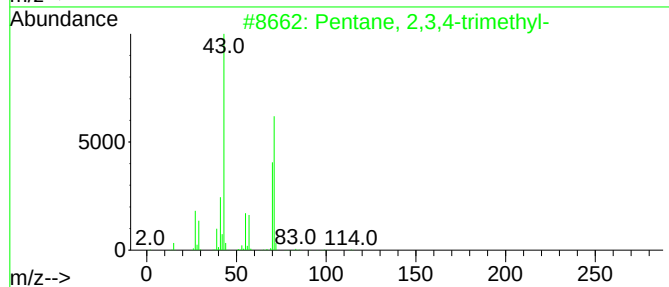
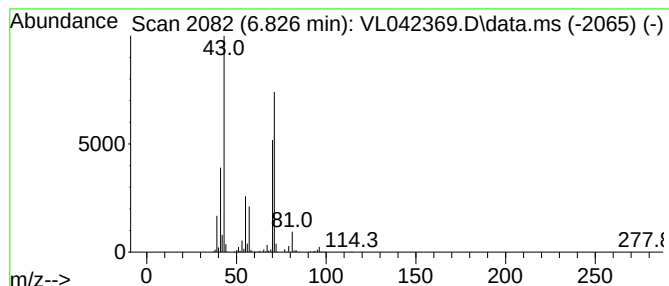
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 7 Pentane, 2,3,4-trimethyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.826	13.37 ppbv	1613940	Chlorobenzene-d5	8.881

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	86
2		Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	86
3		Heptane, 4-methyl-	114	C8H18	000589-53-7	78
4		Pentane, 3-ethyl-	100	C7H16	000617-78-7	64
5		Ethanedioic acid, bis(3-methylbu...	230	C12H22O4	002051-00-5	64



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042369.D
Acq On : 17 Apr 2025 21:45
Operator : SY/MD
Sample : Q1726-04
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

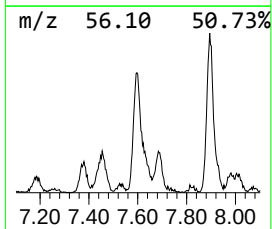
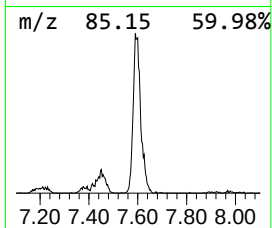
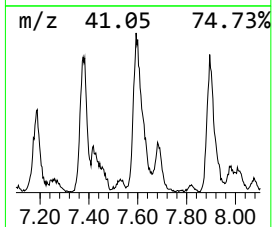
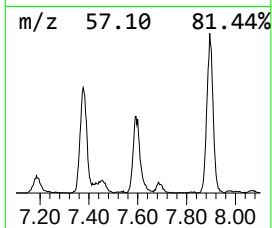
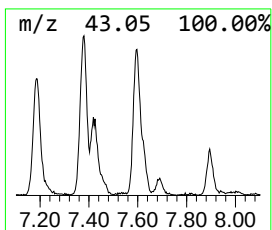
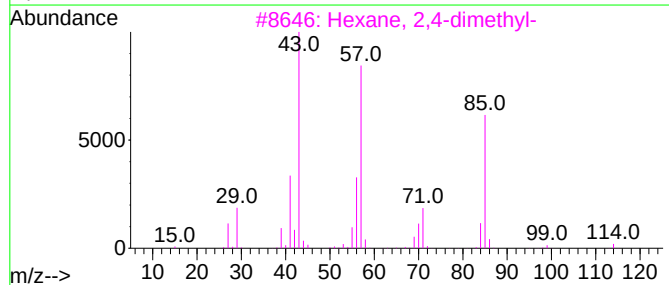
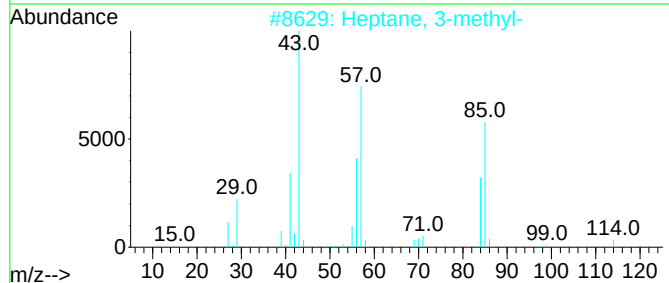
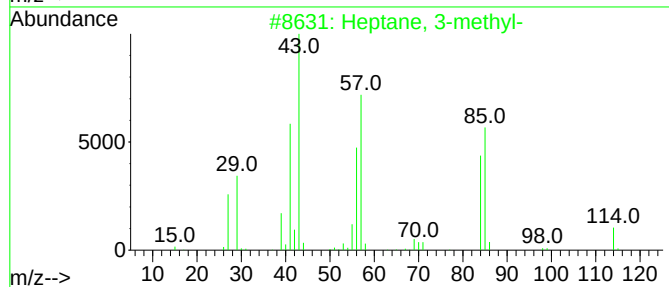
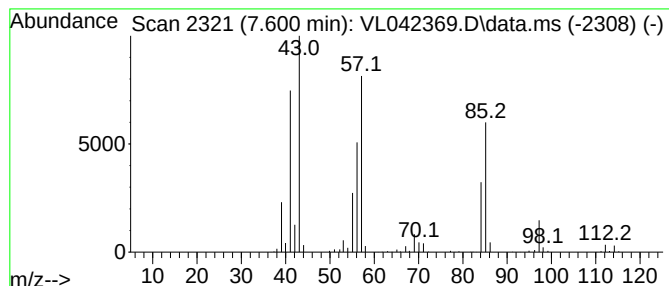
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 8 Heptane, 3-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.600	9.37 ppbv	1130630	Chlorobenzene-d5	8.881

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Heptane, 3-methyl-	114	C8H18	000589-81-1	78
2			Heptane, 3-methyl-	114	C8H18	000589-81-1	64
3			Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	58
4			Hexane, 2-methyl-	100	C7H16	000591-76-4	53
5			Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	53



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042369.D
Acq On : 17 Apr 2025 21:45
Operator : SY/MD
Sample : Q1726-04
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

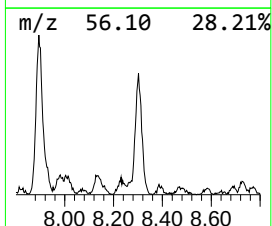
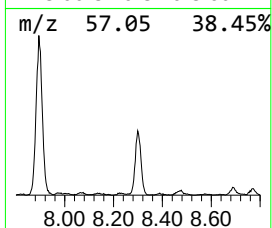
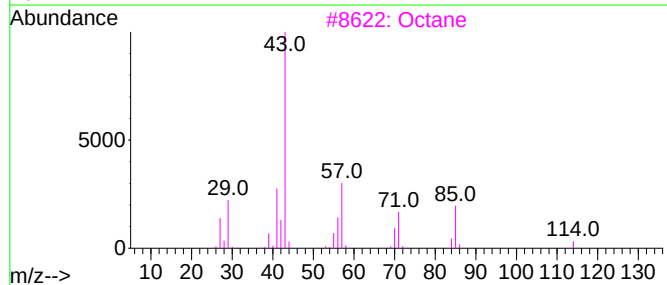
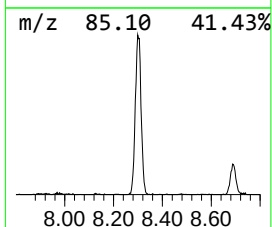
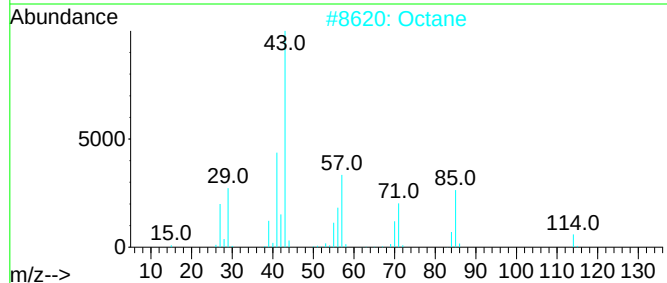
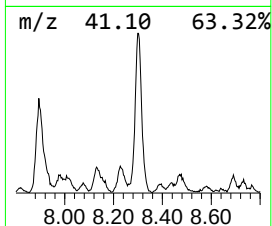
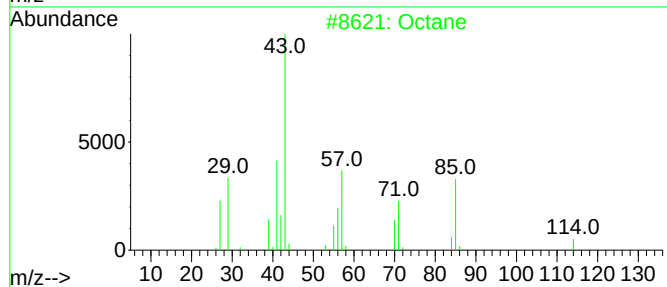
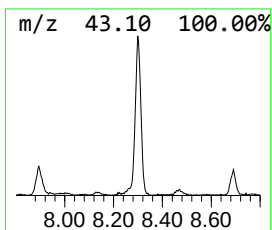
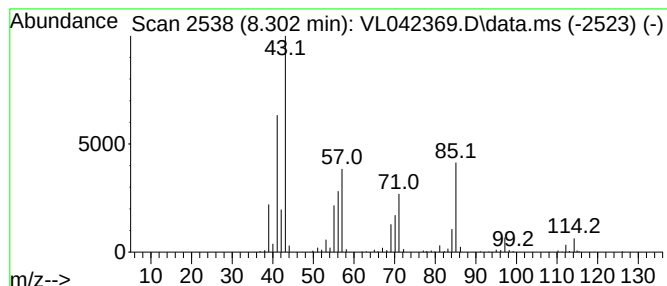
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 9 Octane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.302	9.88 ppbv	1191800	Chlorobenzene-d5	8.881

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane			114	C8H18	000111-65-9	87
2	Octane			114	C8H18	000111-65-9	87
3	Octane			114	C8H18	000111-65-9	80
4	Octane			114	C8H18	000111-65-9	64
5	Oxalic acid, butyl isohexyl ester			230	C12H22O4	1000309-32-7	50



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042369.D
Acq On : 17 Apr 2025 21:45
Operator : SY/MD
Sample : Q1726-04
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

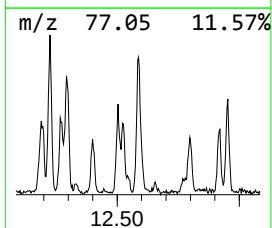
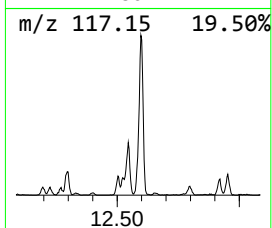
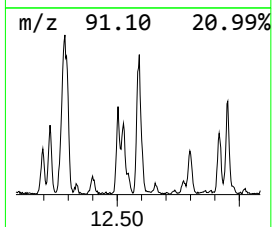
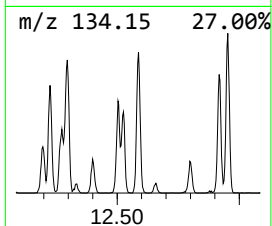
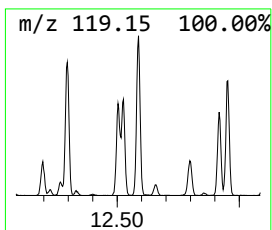
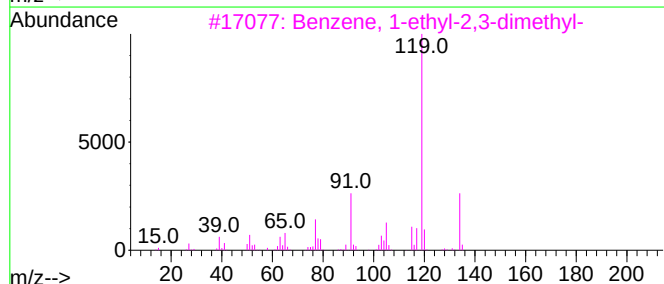
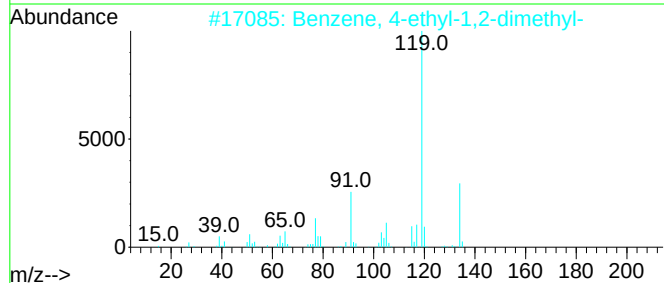
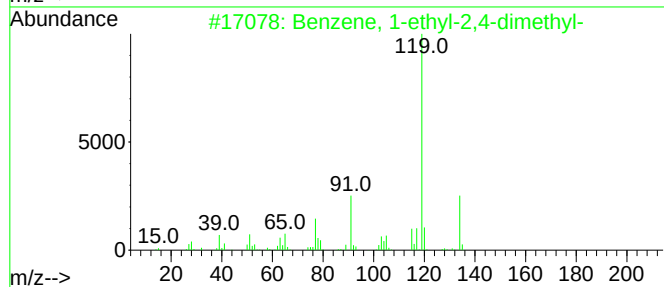
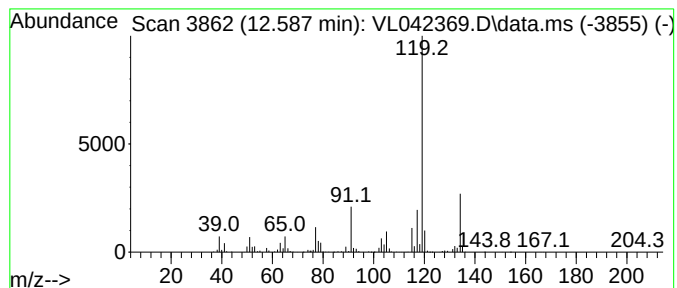
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

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 Benzene, 1-ethyl-2,4-dimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD			R.T.
12.587	7.45 ppbv	899143	Chlorobenzene-d5			8.881
Hit# of 5	Tentative ID		MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-2,4-dimethyl-		134	C10H14	000874-41-9	94
2	Benzene, 4-ethyl-1,2-dimethyl-		134	C10H14	000934-80-5	94
3	Benzene, 1-ethyl-2,3-dimethyl-		134	C10H14	000933-98-2	94
4	o-Cymene		134	C10H14	000527-84-4	94
5	Benzene, 2-ethyl-1,3-dimethyl-		134	C10H14	002870-04-4	93



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042369.D
Acq On : 17 Apr 2025 21:45
Operator : SY/MD
Sample : Q1726-04
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

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
Butane	1.622	8.6	ppbv	382214	1	2.787	442911	10.0
Cyclopentane, m...	3.227	6.8	ppbv	301673	1	2.787	442911	10.0
Hexane, 2-methyl-	4.052	10.4	ppbv	941843	2	3.959	905161	10.0
Hexane, 3-methyl-	4.269	11.4	ppbv	1033110	2	3.959	905161	10.0
Cyclohexane, me...	5.661	9.5	ppbv	856162	2	3.959	905161	10.0
Hexane, 2,5-dim...	6.198	7.0	ppbv	631040	2	3.959	905161	10.0
Pentane, 2,3,4-...	6.826	13.4	ppbv	1613940	3	8.881	1206740	10.0
Heptane, 3-methyl-	7.600	9.4	ppbv	1130630	3	8.881	1206740	10.0
Octane	8.302	9.9	ppbv	1191800	3	8.881	1206740	10.0
Benzene, 1-ethy...	12.587	7.5	ppbv	899143	3	8.881	1206740	10.0

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-5-03312025DL	SDG No.:	Q1726
Lab Sample ID:	Q1726-04DL	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
VL042379.D	20		04/18/25 03:03	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	4.20	20.8	UD	20.8	49.5	ug/m3
64-17-5	Ethanol	340	641	EDQ	12.1	18.8	ug/m3
74-87-3	Chloromethane	2.00	4.13	UD	4.13	20.6	ug/m3
75-01-4	Vinyl Chloride	0.28	0.72	UD	0.72	1.53	ug/m3
74-83-9	Bromomethane	2.80	10.9	UD	10.9	38.8	ug/m3
75-00-3	Chloroethane	3.40	8.97	UD	8.97	26.4	ug/m3
109-99-9	Tetrahydrofuran	2.60	7.67	UD	7.67	29.5	ug/m3
75-69-4	Trichlorofluoromethane	3.20	18.0	UD	18.0	56.2	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	3.20	24.5	UD	24.5	76.7	ug/m3
76-14-2	Dichlorotetrafluoroethane	1.80	12.6	UD	12.6	69.9	ug/m3
593-60-2	Bromoethene	2.40	10.5	UD	10.5	43.7	ug/m3
75-65-0	tert-Butyl alcohol	3.80	11.5	UD	11.5	30.3	ug/m3
142-82-5	Heptane	9.40	38.5	JD	9.02	41.0	ug/m3
67-63-0	Isopropyl Alcohol	36.2	89.0	D	3.44	24.6	ug/m3
75-35-4	1,1-Dichloroethene	2.80	11.1	UD	11.1	39.6	ug/m3
67-64-1	Acetone	530	1260	ED	11.4	23.8	ug/m3
75-15-0	Carbon Disulfide	3.20	9.97	UD	9.97	31.1	ug/m3
1634-04-4	Methyl tert-Butyl Ether	2.40	8.65	UD	8.65	36.0	ug/m3
75-09-2	Methylene Chloride	3.80	13.2	UD	13.2	34.7	ug/m3
156-60-5	trans-1,2-Dichloroethene	3.80	15.1	UD	15.1	39.6	ug/m3
75-34-3	1,1-Dichloroethane	2.60	10.5	UD	10.5	40.5	ug/m3
110-82-7	Cyclohexane	4.40	15.2	UD	15.2	34.4	ug/m3
78-93-3	2-Butanone	2.40	7.08	UD	7.08	29.5	ug/m3
56-23-5	Carbon Tetrachloride	0.22	1.38	UD	1.38	3.77	ug/m3
156-59-2	cis-1,2-Dichloroethene	1.80	7.14	UD	7.14	39.6	ug/m3
67-66-3	Chloroform	1.70	8.30	UD	8.30	48.8	ug/m3
71-55-6	1,1,1-Trichloroethane	0.19	1.04	UD	1.04	3.27	ug/m3
540-84-1	2,2,4-Trimethylpentane	21.1	98.5	D	9.34	46.7	ug/m3
71-43-2	Benzene	2.50	7.99	JD	5.43	31.9	ug/m3
107-06-2	1,2-Dichloroethane	1.80	7.29	UD	7.29	40.5	ug/m3
79-01-6	Trichloroethene	0.34	1.83	UD	1.83	3.22	ug/m3
78-87-5	1,2-Dichloropropane	2.20	10.2	UD	10.2	46.2	ug/m3
75-27-4	Bromodichloromethane	1.50	10.1	UD	10.1	67.0	ug/m3
108-10-1	4-Methyl-2-Pentanone	1.90	7.79	UD	7.79	41.0	ug/m3
108-88-3	Toluene	58.3	220	D	8.29	37.7	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-5-03312025DL	SDG No.:	Q1726
Lab Sample ID:	Q1726-04DL	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
VL042379.D	20		04/18/25 03:03	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	1.20	5.45	UD	5.45	45.4	ug/m3
10061-01-5	cis-1,3-Dichloropropene	1.30	5.90	UD	5.90	45.4	ug/m3
79-00-5	1,1,2-Trichloroethane	1.40	7.64	UD	7.64	54.6	ug/m3
124-48-1	Dibromochloromethane	1.30	11.1	UD	11.1	85.2	ug/m3
106-93-4	1,2-Dibromoethane	1.40	10.8	UD	10.8	15.4	ug/m3
127-18-4	Tetrachloroethene	0.30	2.03	UD	2.03	4.07	ug/m3
108-90-7	Chlorobenzene	1.50	6.91	UD	6.91	46.0	ug/m3
100-41-4	Ethyl Benzene	12.3	53.4	D	10.4	43.4	ug/m3
179601-23-1	m/p-Xylene	45.1	196	D	18.2	86.9	ug/m3
95-47-6	o-Xylene	16.8	73.0	D	10.4	43.4	ug/m3
100-42-5	Styrene	2.20	9.37	UD	9.37	42.6	ug/m3
75-25-2	Bromoform	1.10	11.4	UD	11.4	103	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.22	1.51	UD	1.51	4.12	ug/m3
95-49-8	2-Chlorotoluene	2.20	11.4	UD	11.4	51.8	ug/m3
108-67-8	1,3,5-Trimethylbenzene	7.90	38.8	JD	10.8	49.2	ug/m3
95-63-6	1,2,4-Trimethylbenzene	22.4	110	D	7.87	49.2	ug/m3
541-73-1	1,3-Dichlorobenzene	1.60	9.62	UD	9.62	60.1	ug/m3
106-46-7	1,4-Dichlorobenzene	1.10	6.61	UD	6.61	60.1	ug/m3
95-50-1	1,2-Dichlorobenzene	1.50	9.02	UD	9.02	60.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	1.70	12.6	UD	12.6	74.2	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	1.70	18.1	UD	18.1	107	ug/m3
106-99-0	1,3-Butadiene	2.60	5.75	UD	5.75	22.1	ug/m3
91-20-3	Naphthalene	1.50	7.86	UD	7.86	10.5	ug/m3
622-96-8	4-Ethyltoluene	6.00	29.5	JD	11.8	49.2	ug/m3
110-54-3	Hexane	2.20	7.75	UD	7.75	35.2	ug/m3
107-05-1	Allyl Chloride	3.00	9.39	UD	9.39	31.3	ug/m3
123-91-1	1,4-Dioxane	4.20	15.1	UD	15.1	36.0	ug/m3
80-62-6	Methyl Methacrylate	1.70	6.96	UD	6.96	41.0	ug/m3

SURROGATES

460-00-4	1-Bromo-4-Fluorobenzene	10.3		70 (65) - 130 (135)	103%	SPK: 10
----------	-------------------------	------	--	---------------------	------	---------

INTERNAL STANDARDS

74-97-5	Bromochloromethane	92500	2.784
540-36-3	1,4-Difluorobenzene	261000	3.956
3114-55-4	Chlorobenzene-d5	222000	8.878

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-5-03312025DL	SDG No.:	Q1726
Lab Sample ID:	Q1726-04DL	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
VL042379.D	20		04/18/25 03:03	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 : VL042379.D
 Acq On : 18 Apr 2025 03:03
 Operator : SY/MD
 Sample : Q1726-04DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-5-03312025DL

Manual Integrations
 APPROVED

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

Quant Time: Apr 18 04:41:12 2025

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

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri 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	2.784	49	92518	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.956	114	260556	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	221578	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.371	95	188260	10.339	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.400%
Target Compounds						
					Qvalue	
9) Propene	1.486	41	1792	0.253	ppbv #	15
10) Heptane	4.972	43	9319m	0.468	ppbv	
13) Ethanol	1.719	45	18982	16.847	ppbv	84
15) Acetone	1.832	43	401815	26.530	ppbv	100
19) Isopropyl Alcohol	1.887	45	15229	1.810	ppbv #	1
36) Benzene	3.651	78	3444m	0.123	ppbv	
44) 2,2,4-Trimethylpentane	4.642	57	51174m	1.054	ppbv	
53) Toluene	6.930	91	98263	2.914	ppbv	98
58) Ethyl Benzene	9.354	91	27028	0.616	ppbv	93
59) m/p-Xylene	9.526	91	79744	2.255	ppbv	100
60) o-Xylene	9.963	91	29832	0.838	ppbv	96
64) n-propylbenzene	10.986	120	2879m	0.219	ppbv	
72) 4-Ethyltoluene	11.125	105	12986	0.298	ppbv #	63
73) 1,3,5-Trimethylbenzene	11.202	105	15149	0.394	ppbv	94
74) 1,2,4-Trimethylbenzene	11.536	105	50354	1.122	ppbv #	62

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

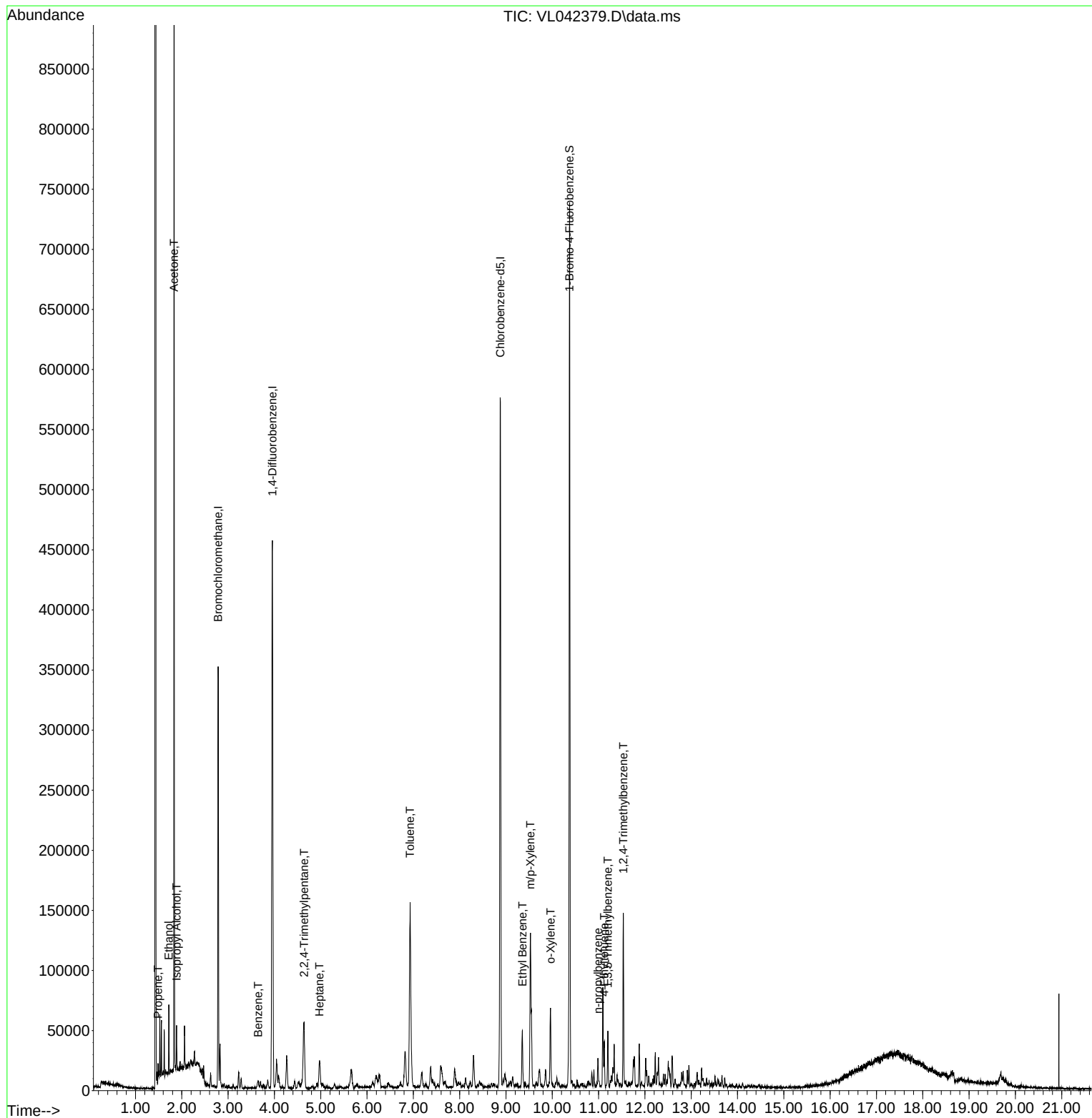
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042379.D
Acq On : 18 Apr 2025 03:03
Operator : SY/MD
Sample : Q1726-04DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

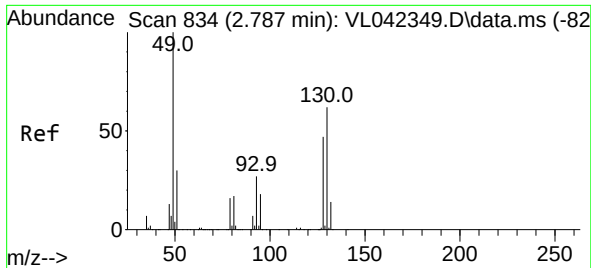
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL

Quant Time: Apr 18 04:41:12 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

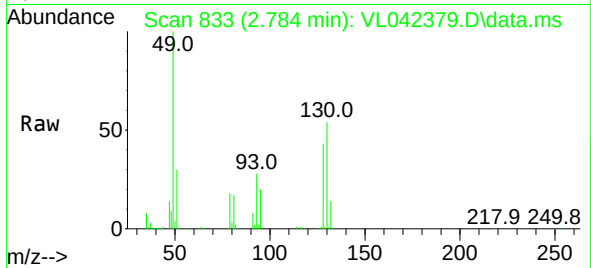
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

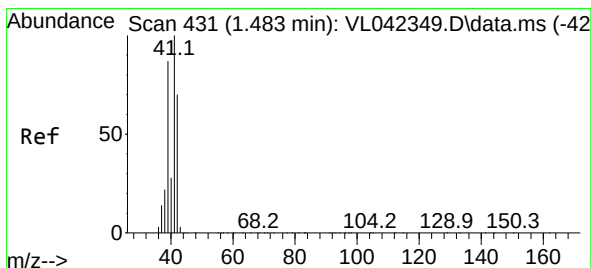
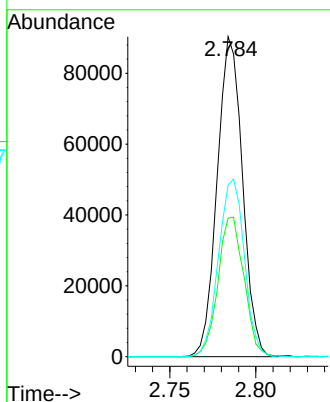
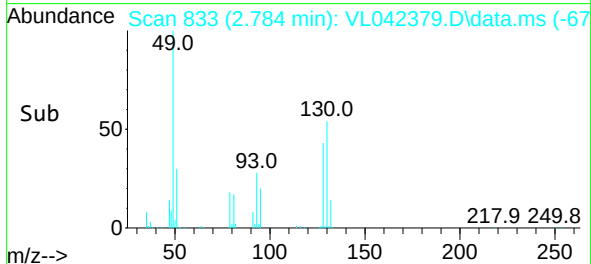
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL



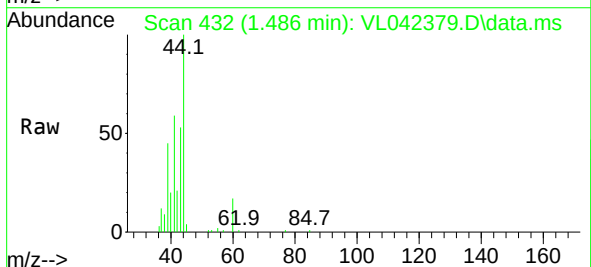
Tgt Ion: 49 Resp: 92518
Ion Ratio Lower Upper
49 100
128 44.8 22.8 68.4
130 56.6 29.3 88.0

Manual Integrations
APPROVED

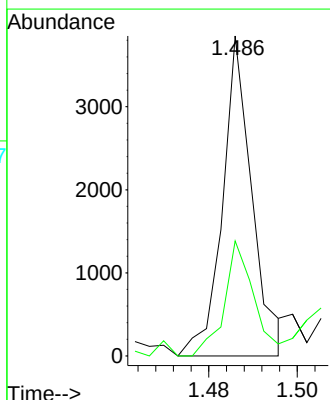
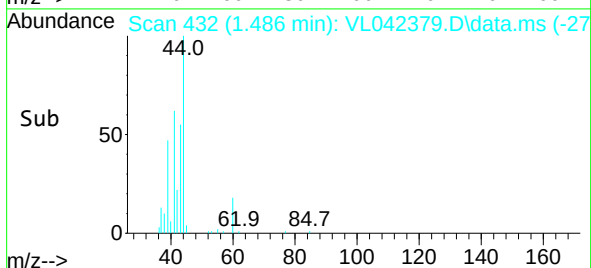
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

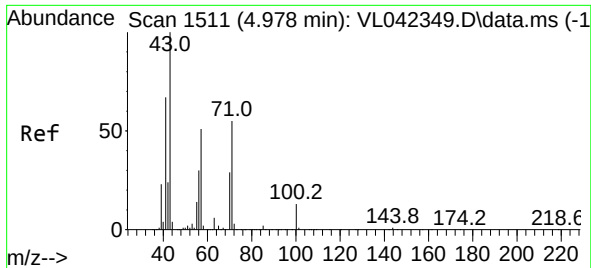


#9
Propene
Concen: 0.253 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.003 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03



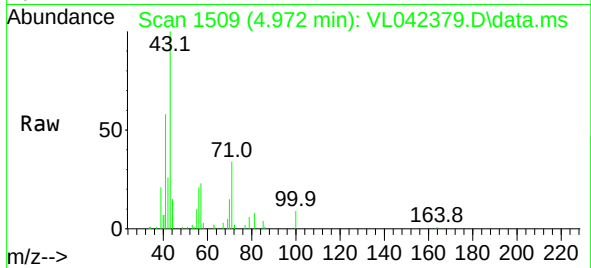
Tgt Ion: 41 Resp: 1792
Ion Ratio Lower Upper
41 100
42 0.0 56.2 84.4#





#10
Heptane
Concen: 0.468 ppbv m
RT: 4.972 min Scan# 11
Delta R.T. -0.006 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

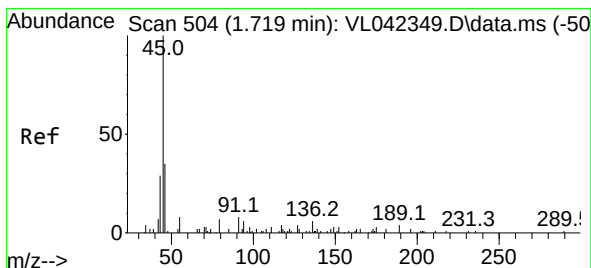
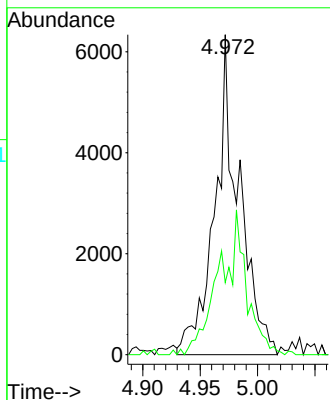
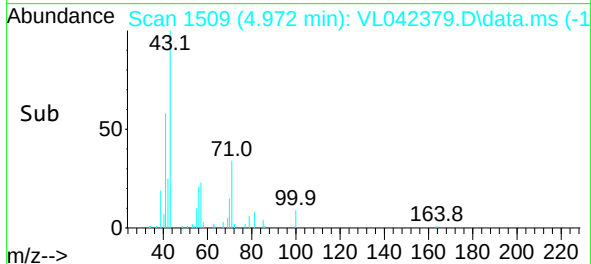
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL



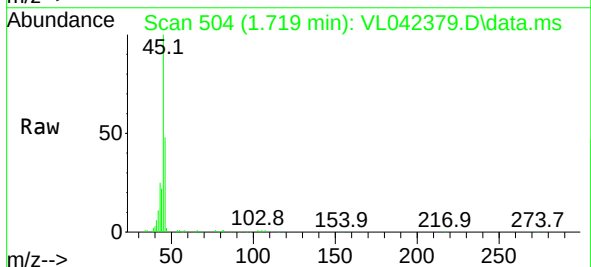
Tgt Ion: 43 Resp: 9319
Ion Ratio Lower Upper
43 100
57 0.0 39.9 59.9

Manual Integrations
APPROVED

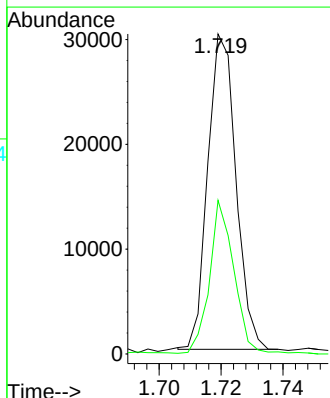
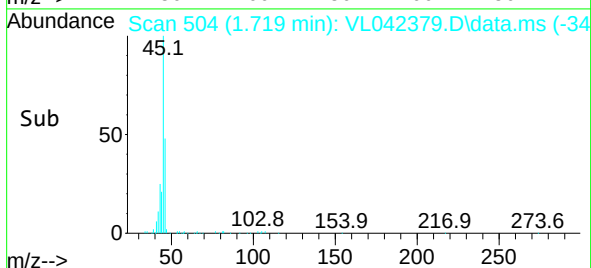
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

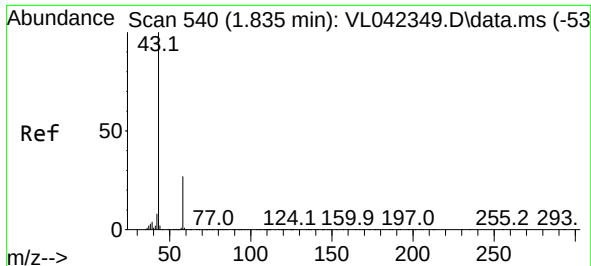


#13
Ethanol
Concen: 16.847 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03



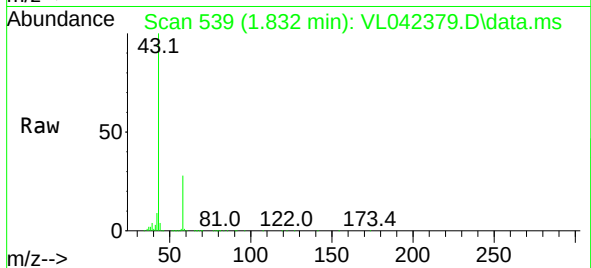
Tgt Ion: 45 Resp: 18982
Ion Ratio Lower Upper
45 100
46 43.4 21.9 87.7





#15
Acetone
Concen: 26.530 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.003 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

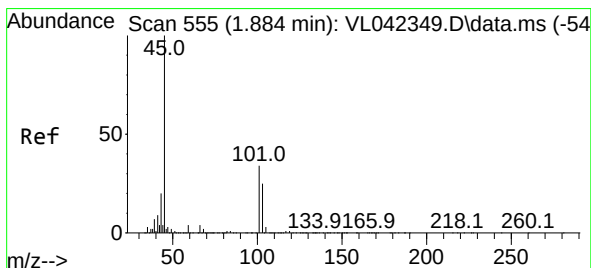
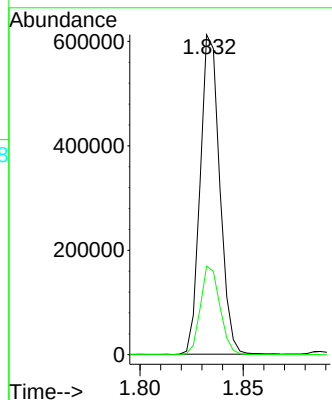
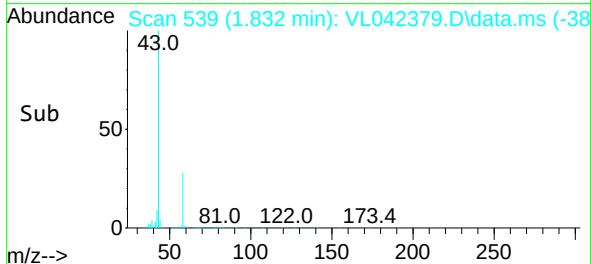
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL



Tgt Ion: 43 Resp: 401815
Ion Ratio Lower Upper
43 100
58 27.9 22.4 33.6

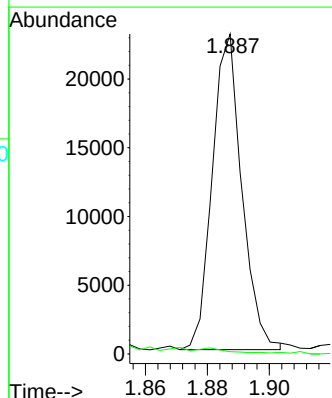
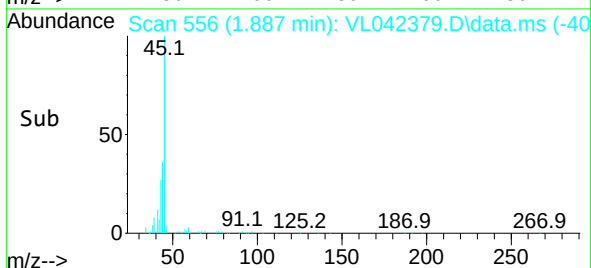
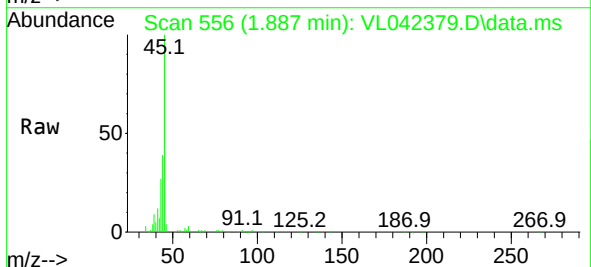
Manual Integrations
APPROVED

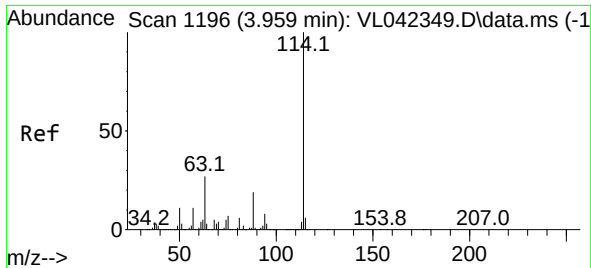
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#19
Isopropyl Alcohol
Concen: 1.810 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

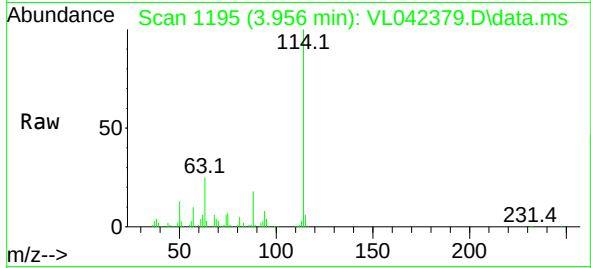
Tgt Ion: 45 Resp: 15229
Ion Ratio Lower Upper
45 100
58 737.4 34.5 51.7#





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.956 min Scan# 1195
Delta R.T. -0.003 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

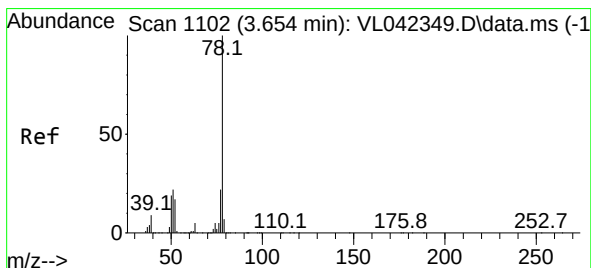
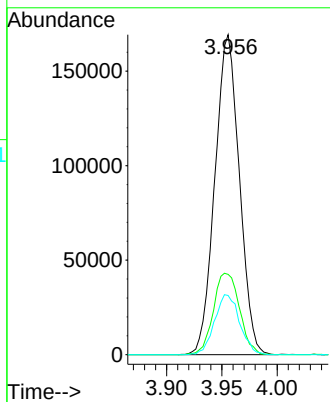
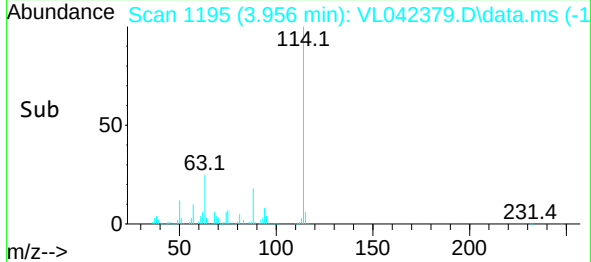
Instrument : MSVOA_L
ClientSampleId : IA-B2-5-03312025DL



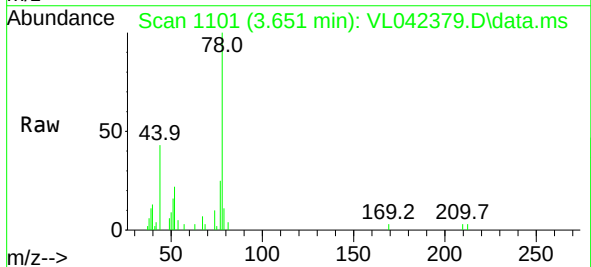
Tgt Ion:114 Resp: 260550
Ion Ratio Lower Upper
114 100
63 27.2 21.8 32.6
88 19.2 15.5 23.3

Manual Integrations
APPROVED

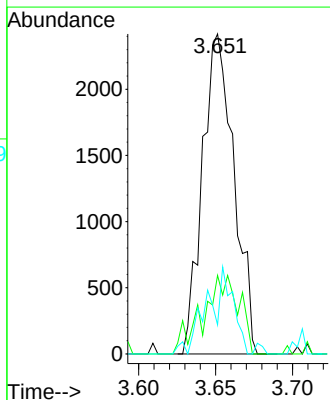
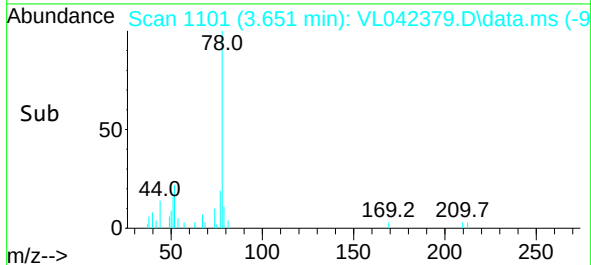
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

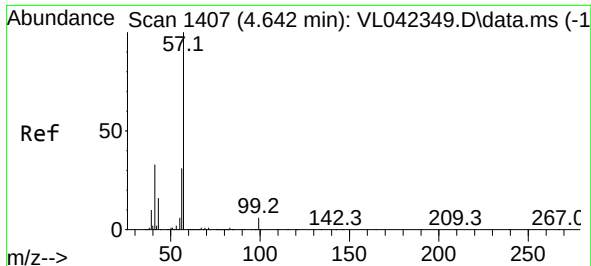


#36
Benzene
Concen: 0.123 ppbv m
RT: 3.651 min Scan# 1101
Delta R.T. -0.003 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03



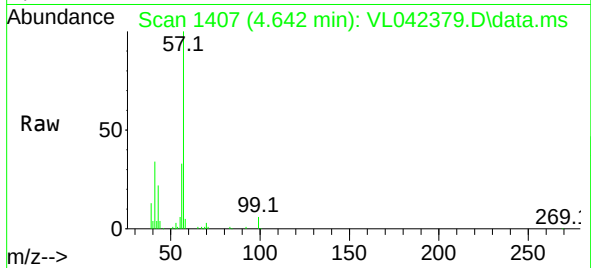
Tgt Ion: 78 Resp: 3444
Ion Ratio Lower Upper
78 100
77 24.5 17.4 26.0
50 9.1 15.5 23.3#





#44
2,2,4-Trimethylpentane
Concen: 1.054 ppbv m
RT: 4.642 min Scan# 1407
Delta R.T. 0.000 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

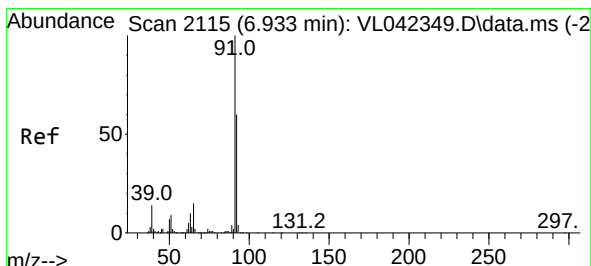
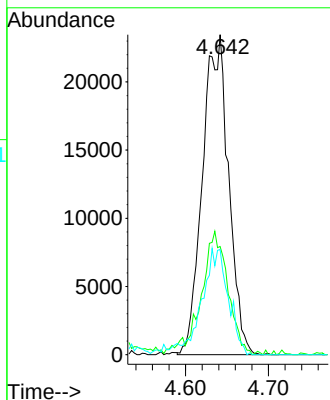
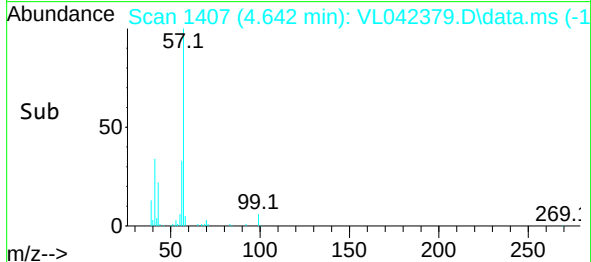
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL



Tgt Ion: 57 Resp: 51174
Ion Ratio Lower Upper
57 100
41 40.1 27.2 40.8
56 35.0 25.7 38.5

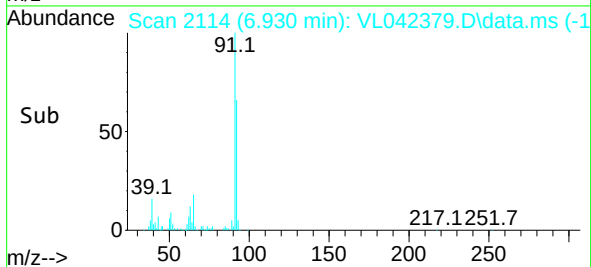
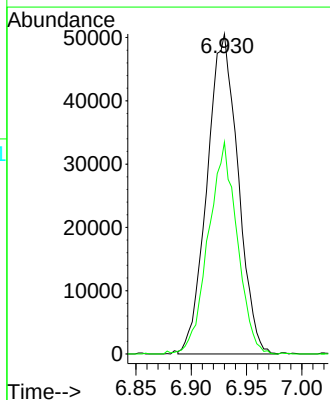
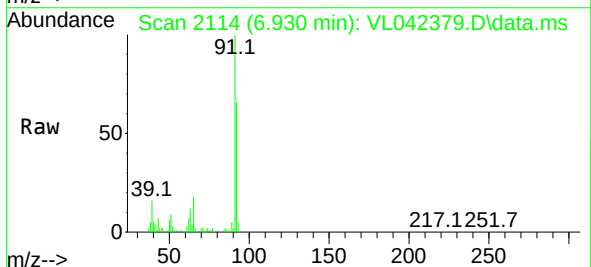
Manual Integrations
APPROVED

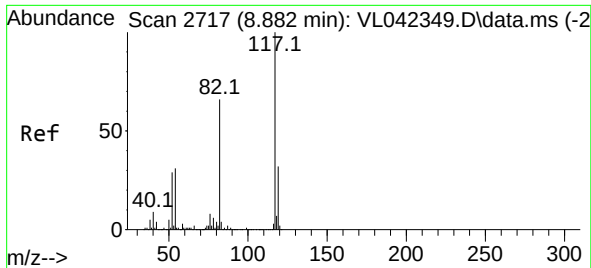
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#53
Toluene
Concen: 2.914 ppbv
RT: 6.930 min Scan# 2114
Delta R.T. -0.003 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

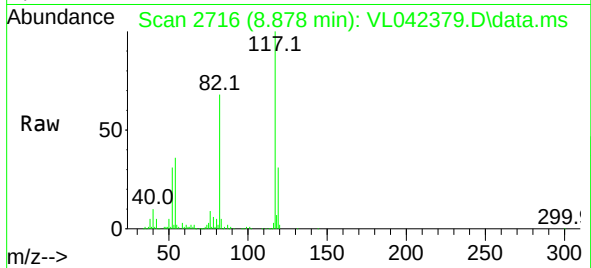
Tgt Ion: 91 Resp: 98263
Ion Ratio Lower Upper
91 100
92 61.9 48.2 72.4





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2117
Delta R.T. -0.003 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

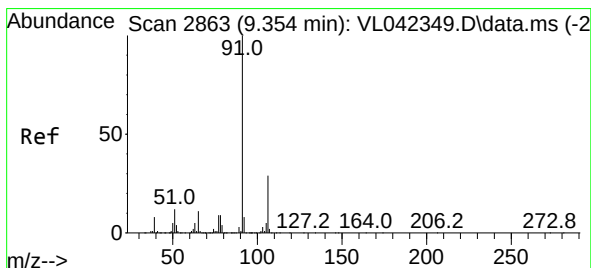
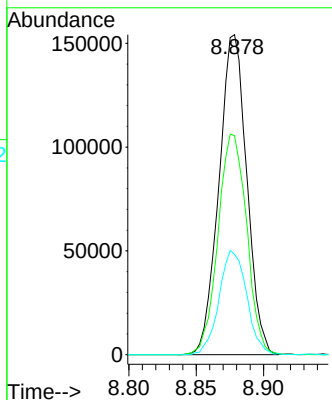
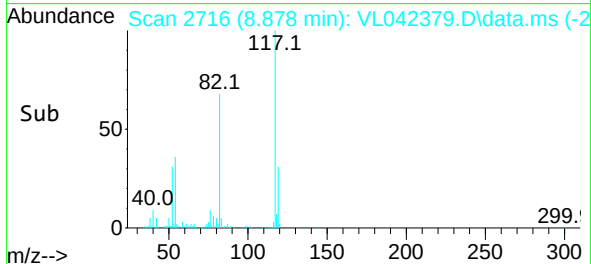
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL



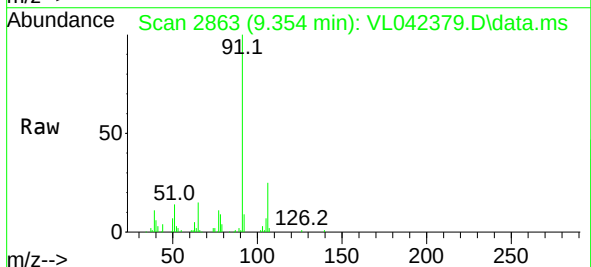
Tgt Ion:117 Resp: 221578
Ion Ratio Lower Upper
117 100
82 70.9 57.8 86.6
119 32.4 25.2 37.8

Manual Integrations
APPROVED

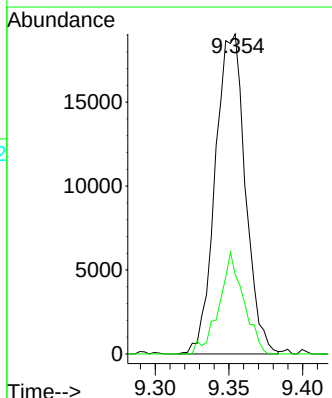
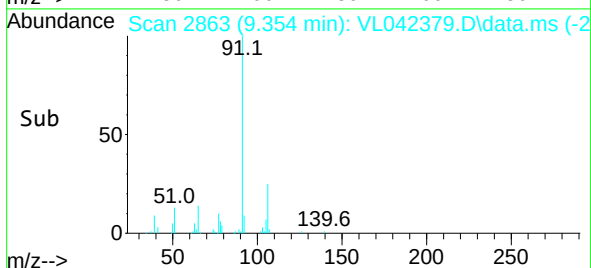
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

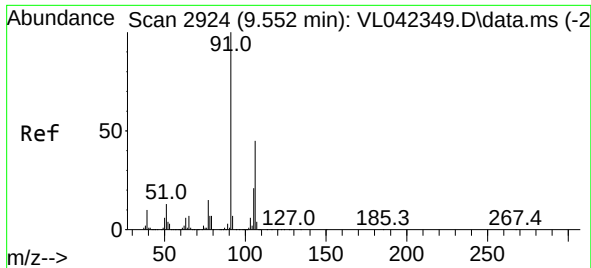


#58
Ethyl Benzene
Concen: 0.616 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.000 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03



Tgt Ion: 91 Resp: 27028
Ion Ratio Lower Upper
91 100
106 24.8 23.0 34.4





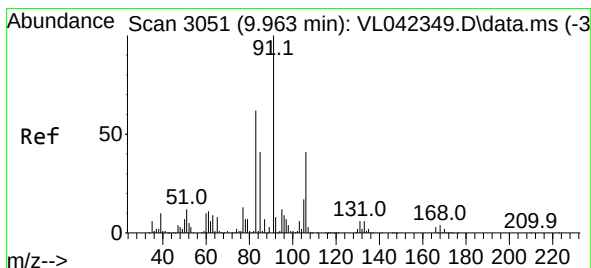
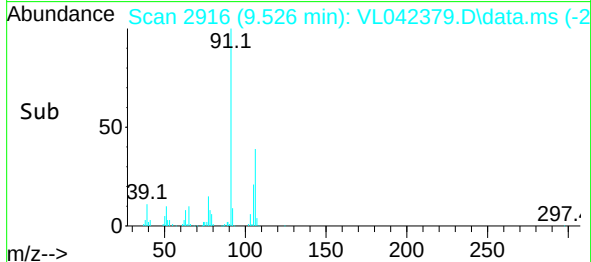
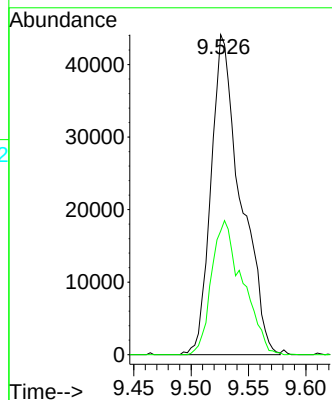
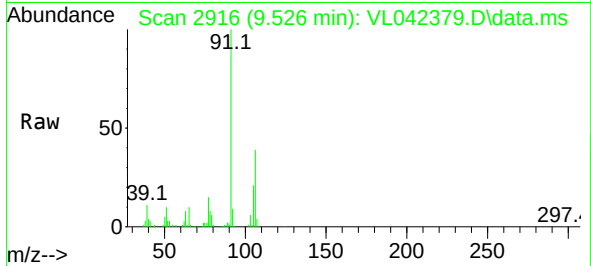
#59
m/p-Xylene
Concen: 2.255 ppbv
RT: 9.526 min Scan# 2916
Delta R.T. -0.026 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL

Tgt Ion: 91 Resp: 79744
Ion Ratio Lower Upper
91 100
106 44.0 35.4 53.2

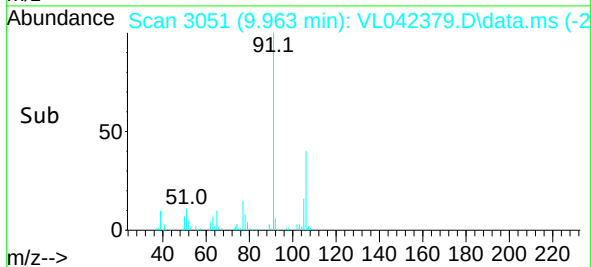
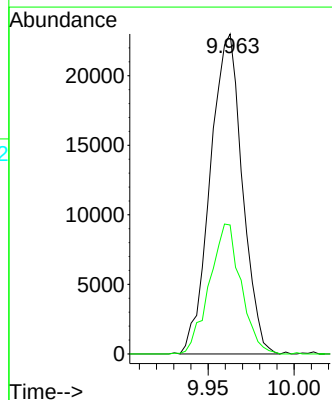
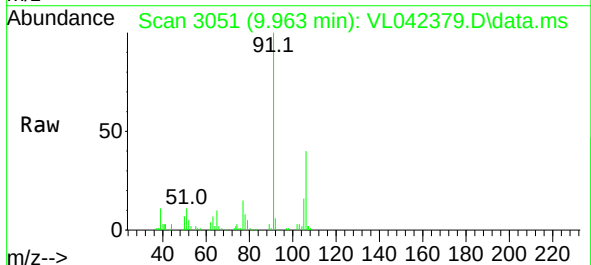
Manual Integrations
APPROVED

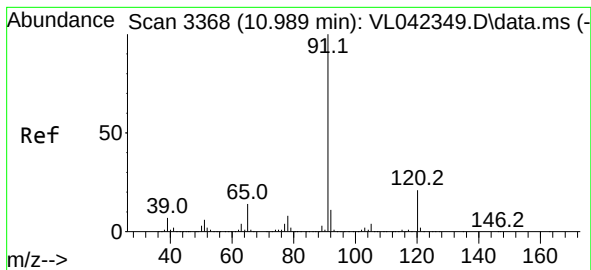
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#60
o-Xylene
Concen: 0.838 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. 0.000 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

Tgt Ion: 91 Resp: 29832
Ion Ratio Lower Upper
91 100
106 40.0 21.1 63.4





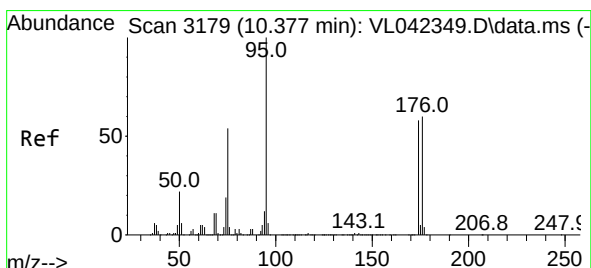
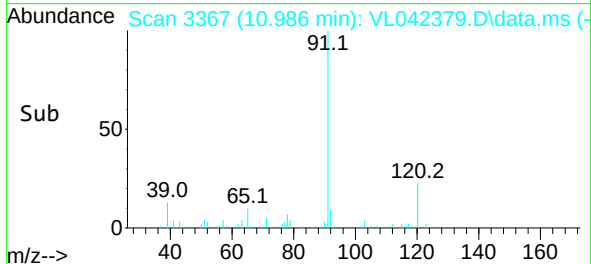
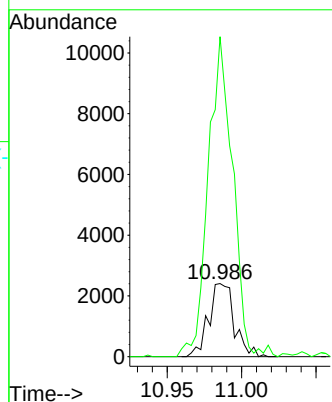
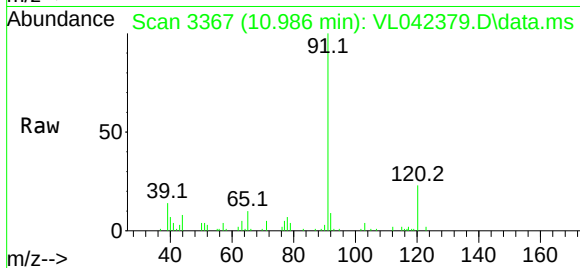
#64
n-propylbenzene
Concen: 0.219 ppbv m
RT: 10.986 min Scan# 3177
Delta R.T. -0.003 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL

Tgt Ion:120 Resp: 2879
Ion Ratio Lower Upper
120 100
91 424.0 392.4 588.6

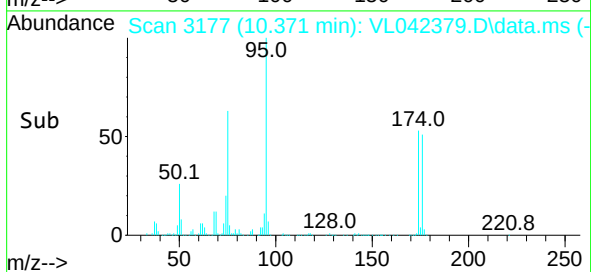
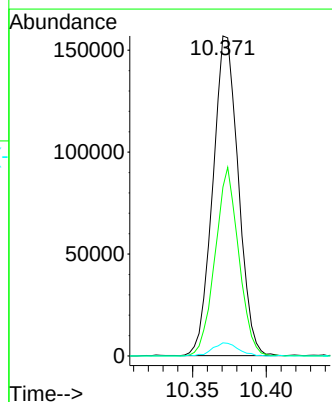
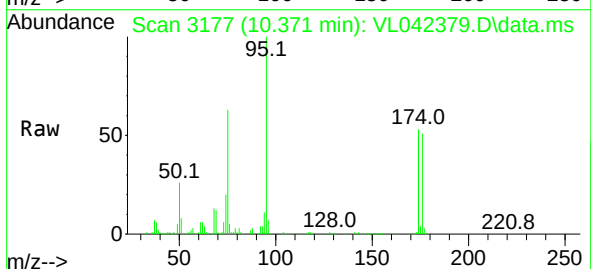
Manual Integrations
APPROVED

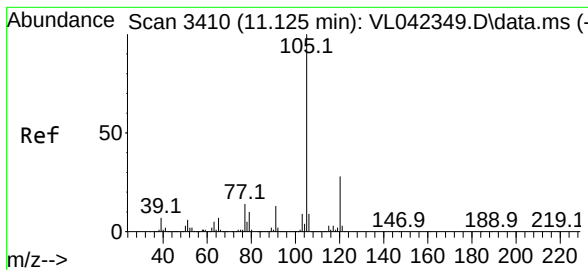
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 10.339 ppbv
RT: 10.371 min Scan# 3177
Delta R.T. -0.006 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

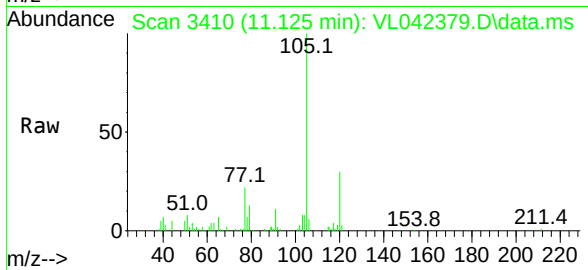
Tgt Ion: 95 Resp: 188260
Ion Ratio Lower Upper
95 100
174 54.8 48.5 72.7
175 4.2 3.7 5.5





#72
4-Ethyltoluene
Concen: 0.298 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.000 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

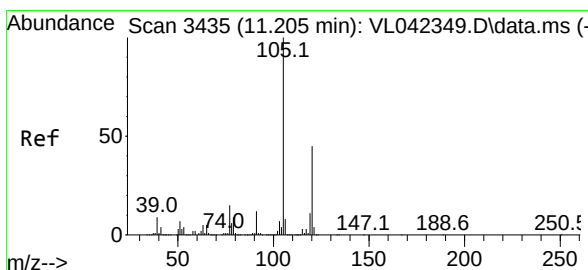
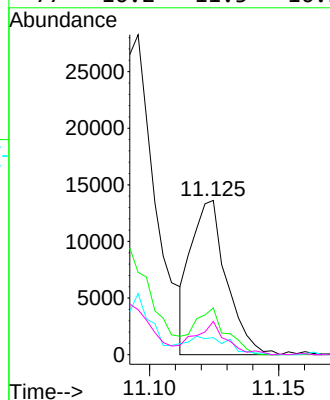
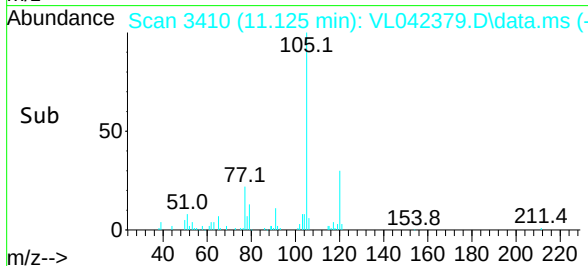
Instrument : MSVOA_L
ClientSampleId : IA-B2-5-03312025DL



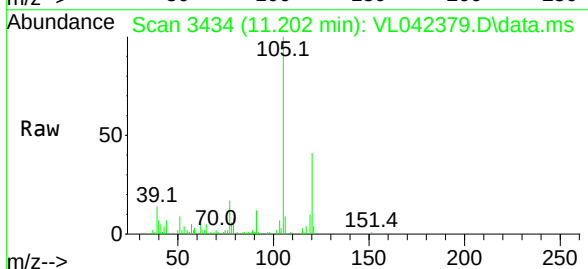
Tgt Ion:105 Resp: 12980
Ion Ratio Lower Upper
105 100
120 0.0 23.2 34.8
91 0.0 10.4 15.6
77 16.2 11.3 16.9

Manual Integrations
APPROVED

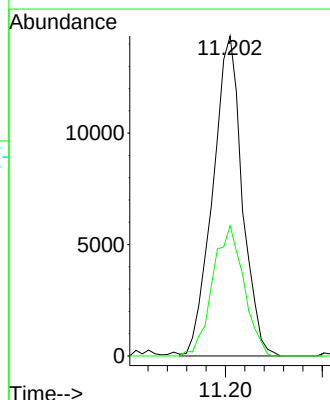
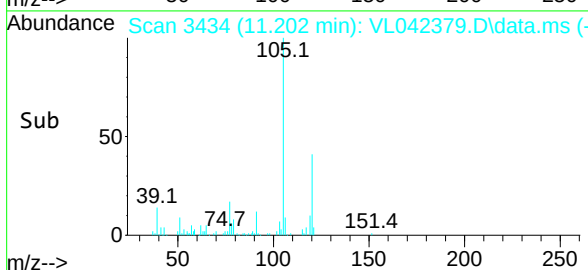
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

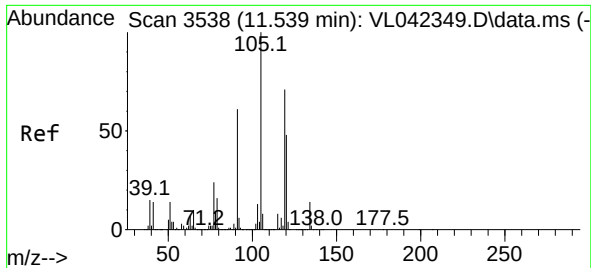


#73
1,3,5-Trimethylbenzene
Concen: 0.394 ppbv
RT: 11.202 min Scan# 3434
Delta R.T. -0.003 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03



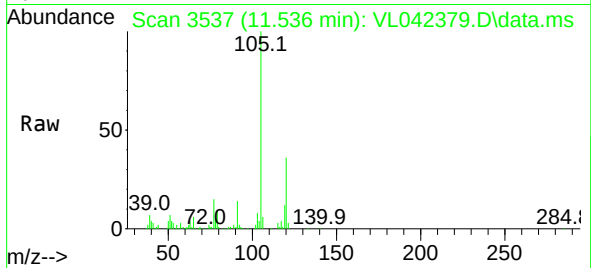
Tgt Ion:105 Resp: 15149
Ion Ratio Lower Upper
105 100
120 40.7 35.6 53.4





#74
 1,2,4-Trimethylbenzene
 Concen: 1.122 ppbv
 RT: 11.536 min Scan# 30
 Delta R.T. -0.003 min
 Lab File: VL042379.D
 Acq: 18 Apr 2025 03:03

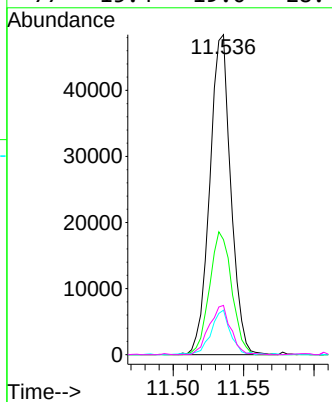
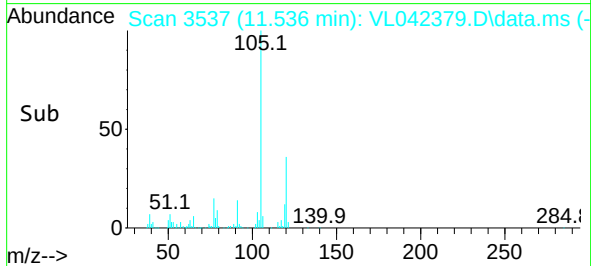
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-5-03312025DL



Tgt Ion:	105	Resp:	50354
Ion	Ratio	Lower	Upper
105	100		
120	35.9	38.1	57.1
91	13.7	48.8	73.2
77	15.4	19.0	28.4

Manual Integrations
 APPROVED

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



Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-5-03312025DL2	SDG No.:	Q1726
Lab Sample ID:	Q1726-04DL2	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
VL042389.D	40		04/18/25 13:43	VL041825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	8.40	41.5	UD	41.5	98.9	ug/m3
64-17-5	Ethanol	240	452	DQ	24.1	37.7	ug/m3
74-87-3	Chloromethane	3.90	8.05	UD	8.05	41.3	ug/m3
75-01-4	Vinyl Chloride	0.56	1.43	UD	1.43	3.07	ug/m3
74-83-9	Bromomethane	5.60	21.7	UD	21.7	77.7	ug/m3
75-00-3	Chloroethane	6.80	17.9	UD	17.9	52.8	ug/m3
109-99-9	Tetrahydrofuran	5.20	15.3	UDQ	15.3	59.0	ug/m3
75-69-4	Trichlorofluoromethane	6.40	36.0	UD	36.0	112	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	6.40	49.0	UD	49.0	153	ug/m3
76-14-2	Dichlorotetrafluoroethane	3.50	24.5	UD	24.5	140	ug/m3
593-60-2	Bromoethene	4.80	21.0	UD	21.0	87.4	ug/m3
75-65-0	tert-Butyl alcohol	7.60	23.0	UD	23.0	60.6	ug/m3
142-82-5	Heptane	6.20	25.4	JDQ	18.0	82.0	ug/m3
67-63-0	Isopropyl Alcohol	25.8	63.4	D	6.88	49.2	ug/m3
75-35-4	1,1-Dichloroethene	5.60	22.2	UD	22.2	79.3	ug/m3
67-64-1	Acetone	380	903	D	22.8	47.5	ug/m3
75-15-0	Carbon Disulfide	6.40	19.9	UD	19.9	62.3	ug/m3
1634-04-4	Methyl tert-Butyl Ether	4.80	17.3	UD	17.3	72.1	ug/m3
75-09-2	Methylene Chloride	7.60	26.4	UD	26.4	69.5	ug/m3
156-60-5	trans-1,2-Dichloroethene	7.60	30.1	UD	30.1	79.3	ug/m3
75-34-3	1,1-Dichloroethane	5.20	21.1	UD	21.1	81.0	ug/m3
110-82-7	Cyclohexane	8.80	30.3	UD	30.3	68.8	ug/m3
78-93-3	2-Butanone	4.80	14.2	UD	14.2	59.0	ug/m3
56-23-5	Carbon Tetrachloride	0.44	2.77	UD	2.77	7.55	ug/m3
156-59-2	cis-1,2-Dichloroethene	3.60	14.3	UD	14.3	79.3	ug/m3
67-66-3	Chloroform	3.30	16.1	UD	16.1	97.7	ug/m3
71-55-6	1,1,1-Trichloroethane	0.38	2.07	UD	2.07	6.55	ug/m3
540-84-1	2,2,4-Trimethylpentane	11.9	55.6	JD	18.7	93.4	ug/m3
71-43-2	Benzene	3.50	11.2	UD	11.2	63.9	ug/m3
107-06-2	1,2-Dichloroethane	3.60	14.6	UD	14.6	81.0	ug/m3
79-01-6	Trichloroethene	0.68	3.65	UD	3.65	6.45	ug/m3
78-87-5	1,2-Dichloropropane	4.40	20.3	UD	20.3	92.4	ug/m3
75-27-4	Bromodichloromethane	3.10	20.8	UD	20.8	134	ug/m3
108-10-1	4-Methyl-2-Pentanone	3.70	15.2	UD	15.2	82.0	ug/m3
108-88-3	Toluene	35.5	134	D	16.6	75.4	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-5-03312025DL2	SDG No.:	Q1726
Lab Sample ID:	Q1726-04DL2	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
VL042389.D	40		04/18/25 13:43	VL041825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	2.40	10.9	UD	10.9	90.8	ug/m3
10061-01-5	cis-1,3-Dichloropropene	2.60	11.8	UD	11.8	90.8	ug/m3
79-00-5	1,1,2-Trichloroethane	2.80	15.3	UD	15.3	109	ug/m3
124-48-1	Dibromochloromethane	2.60	22.1	UD	22.1	170	ug/m3
106-93-4	1,2-Dibromoethane	2.90	22.3	UD	22.3	30.7	ug/m3
127-18-4	Tetrachloroethene	0.60	4.07	UD	4.07	8.14	ug/m3
108-90-7	Chlorobenzene	3.00	13.8	UD	13.8	92.1	ug/m3
100-41-4	Ethyl Benzene	7.40	32.1	JD	20.9	86.9	ug/m3
179601-23-1	m/p-Xylene	26.4	115	JD	36.5	174	ug/m3
95-47-6	o-Xylene	10.2	44.3	JD	20.9	86.9	ug/m3
100-42-5	Styrene	4.40	18.7	UD	18.7	85.2	ug/m3
75-25-2	Bromoform	2.30	23.8	UD	23.8	207	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.44	3.02	UD	3.02	8.24	ug/m3
95-49-8	2-Chlorotoluene	4.40	22.8	UD	22.8	104	ug/m3
108-67-8	1,3,5-Trimethylbenzene	4.70	23.1	JD	21.6	98.3	ug/m3
95-63-6	1,2,4-Trimethylbenzene	13.5	66.4	JD	15.2	98.3	ug/m3
541-73-1	1,3-Dichlorobenzene	3.20	19.2	UD	19.2	120	ug/m3
106-46-7	1,4-Dichlorobenzene	2.10	12.6	UD	12.6	120	ug/m3
95-50-1	1,2-Dichlorobenzene	3.00	18.0	UD	18.0	120	ug/m3
120-82-1	1,2,4-Trichlorobenzene	3.40	25.2	UD	25.2	148	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	3.40	36.3	UD	36.3	213	ug/m3
106-99-0	1,3-Butadiene	5.20	11.5	UD	11.5	44.3	ug/m3
91-20-3	Naphthalene	3.00	15.7	UD	15.7	21.0	ug/m3
622-96-8	4-Ethyltoluene	4.80	23.6	UD	23.6	98.3	ug/m3
110-54-3	Hexane	4.40	15.5	UD	15.5	70.5	ug/m3
107-05-1	Allyl Chloride	6.00	18.8	UD	18.8	62.6	ug/m3
123-91-1	1,4-Dioxane	8.40	30.3	UD	30.3	72.1	ug/m3
80-62-6	Methyl Methacrylate	3.40	13.9	UDQ	13.9	81.9	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	135000	2.79
540-36-3	1,4-Difluorobenzene	413000	3.962
3114-55-4	Chlorobenzene-d5	353000	8.885

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-5-03312025DL2	SDG No.:	Q1726
Lab Sample ID:	Q1726-04DL2	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
VL042389.D	40		04/18/25 13:43	VL041825

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\VL041825\
 Data File : VL042389.D
 Acq On : 18 Apr 2025 13:43
 Operator : SY/MD
 Sample : Q1726-04DL2 40X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-5-03312025DL2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2025
 Supervised By :Mahesh Dadoda 04/21/2025

Quant Time: Apr 18 22:58:55 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	134501	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	412843	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	353048	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	286509	9.876	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.800%
Target Compounds						
					Qvalue	
10) Heptane	4.981	43	4460m	0.154	ppbv	
13) Ethanol	1.722	45	9628	5.878	ppbv #	24
15) Acetone	1.839	43	207223	9.411	ppbv	100
19) Isopropyl Alcohol	1.887	45	7883	0.644	ppbv #	1
44) 2,2,4-Trimethylpentane	4.648	57	22870m	0.297	ppbv	
53) Toluene	6.936	91	47465	0.888	ppbv	99
58) Ethyl Benzene	9.361	91	12921m	0.185	ppbv	
59) m/p-Xylene	9.532	91	37128	0.659	ppbv	98
60) o-Xylene	9.966	91	14405	0.254	ppbv	99
73) 1,3,5-Trimethylbenzene	11.205	105	7150	0.117	ppbv	97
74) 1,2,4-Trimethylbenzene	11.539	105	24212	0.338	ppbv #	59

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

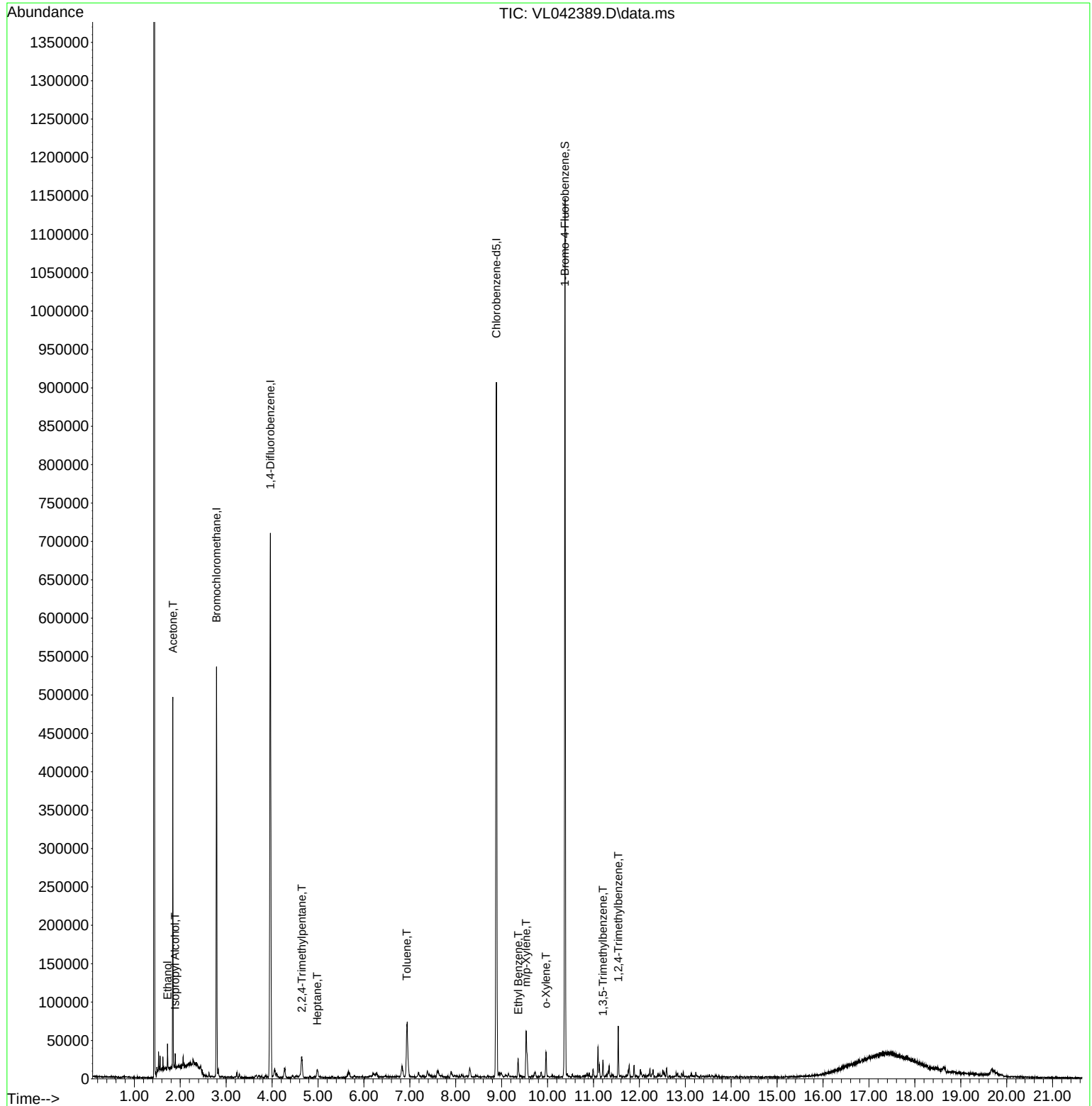
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
Data File : VL042389.D
Acq On : 18 Apr 2025 13:43
Operator : SY/MD
Sample : Q1726-04DL2 40X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

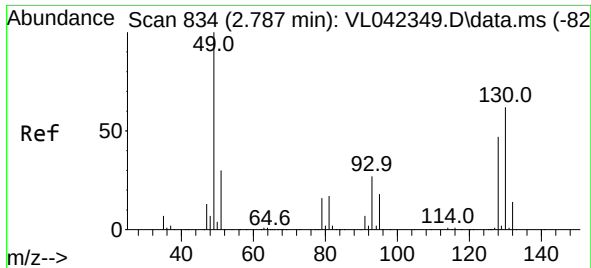
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL2

Quant Time: Apr 18 22:58:55 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

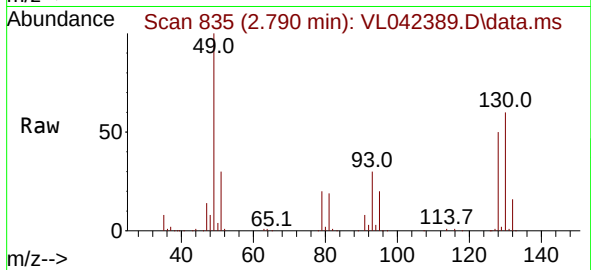
Reviewed By : Semsettin Yesilyurt 04/21/2025
Supervised By : Mahesh Dadoda 04/21/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

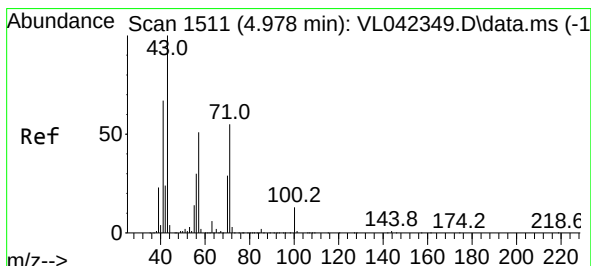
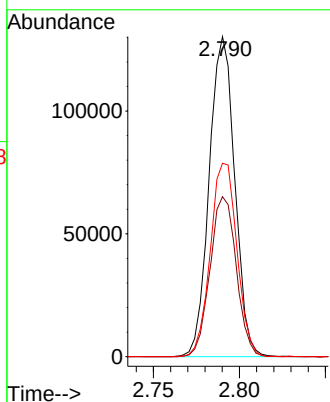
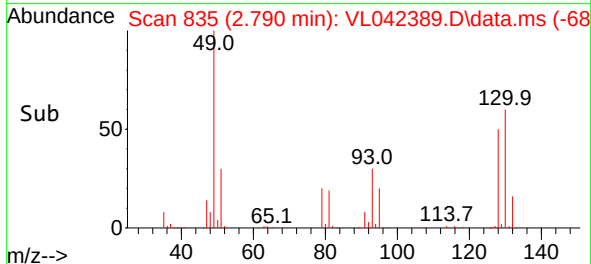
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL2



Tgt Ion: 49 Resp: 13450
Ion Ratio Lower Upper
49 100
128 51.5 22.8 68.4
130 63.0 29.3 88.0

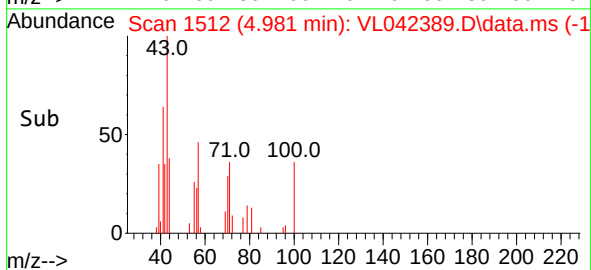
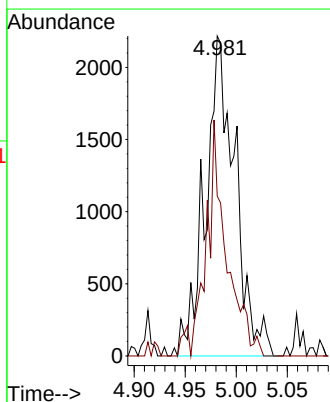
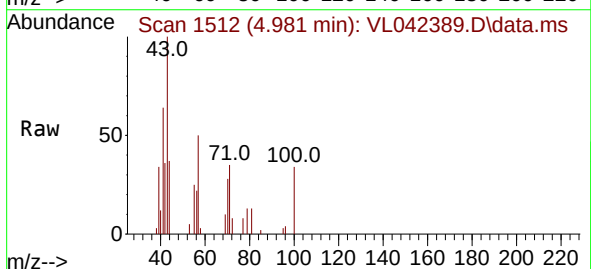
Manual Integrations
APPROVED

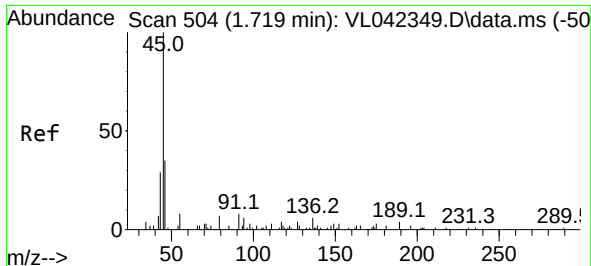
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025



#10
Heptane
Concen: 0.154 ppbv m
RT: 4.981 min Scan# 1512
Delta R.T. 0.003 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

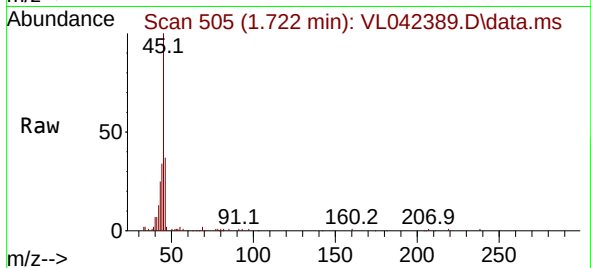
Tgt Ion: 43 Resp: 4460
Ion Ratio Lower Upper
43 100
57 50.9 39.9 59.9





#13
Ethanol
Concen: 5.878 ppbv
RT: 1.722 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

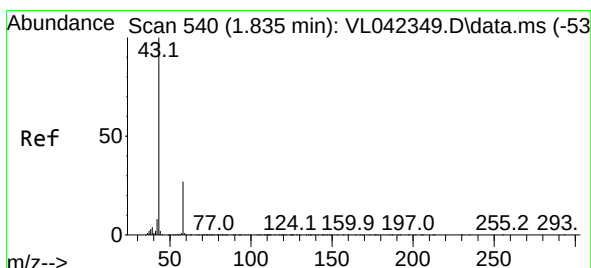
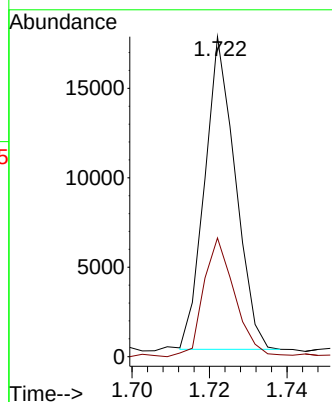
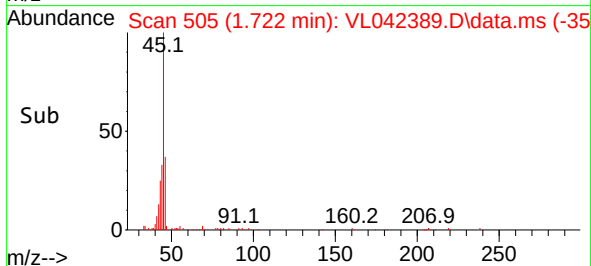
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL2



Tgt Ion: 45 Resp: 9628
Ion Ratio Lower Upper
45 100
46 0.0 21.9 87.7

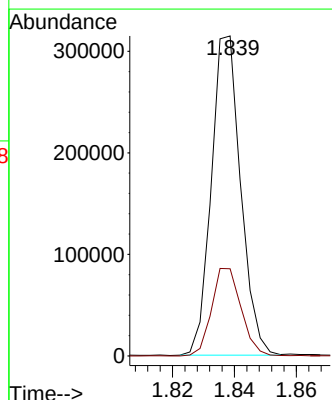
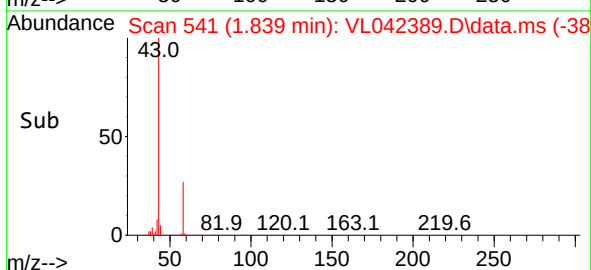
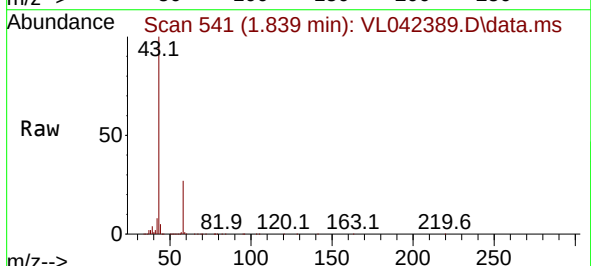
Manual Integrations
APPROVED

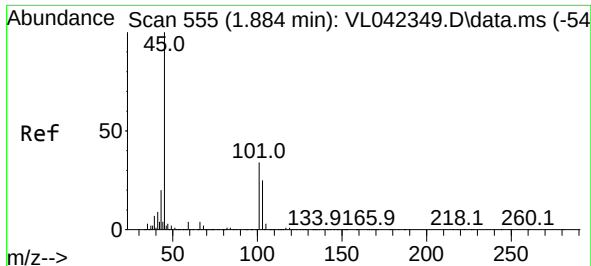
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025



#15
Acetone
Concen: 9.411 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

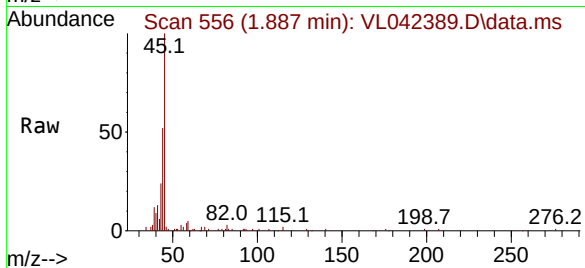
Tgt Ion: 43 Resp: 207223
Ion Ratio Lower Upper
43 100
58 27.9 22.4 33.6





#19
Isopropyl Alcohol
Concen: 0.644 ppbv
RT: 1.887 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

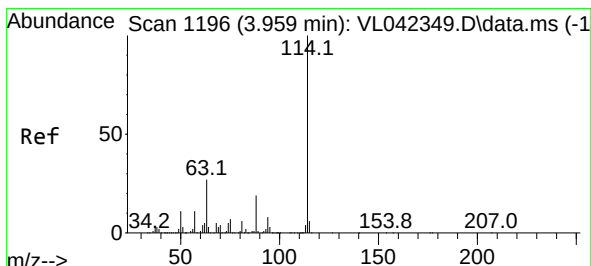
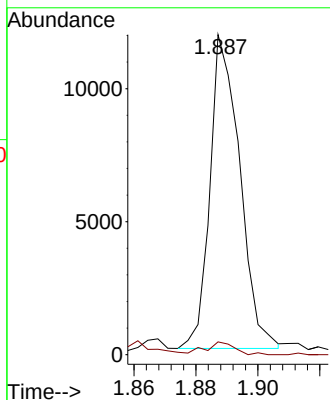
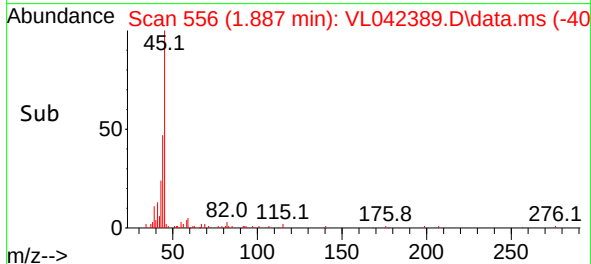
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL2



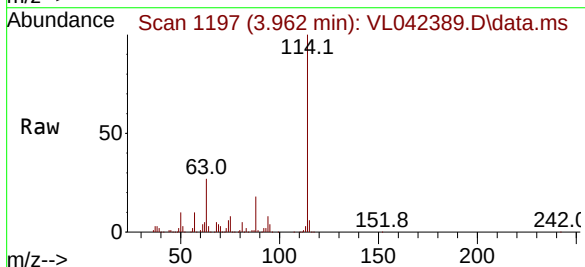
Tgt Ion: 45 Resp: 788
Ion Ratio Lower Upper
45 100
58 733.5 34.5 51.7

Manual Integrations
APPROVED

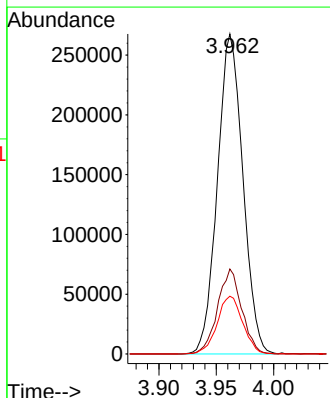
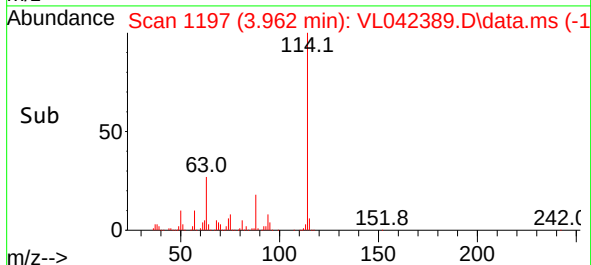
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

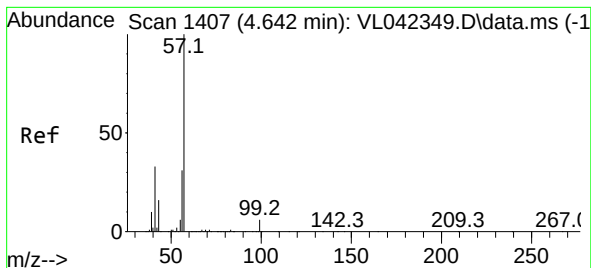


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. 0.003 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43



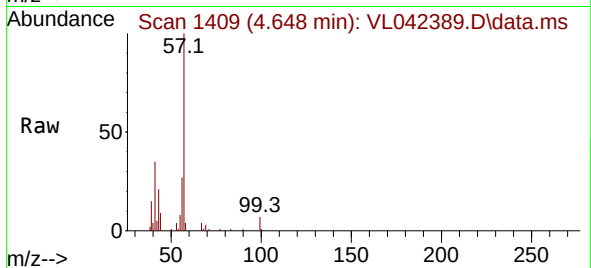
Tgt Ion:114 Resp: 412843
Ion Ratio Lower Upper
114 100
63 25.2 21.8 32.6
88 18.1 15.5 23.3





#44
2,2,4-Trimethylpentane
Concen: 0.297 ppbv m
RT: 4.648 min Scan# 1407
Delta R.T. 0.006 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

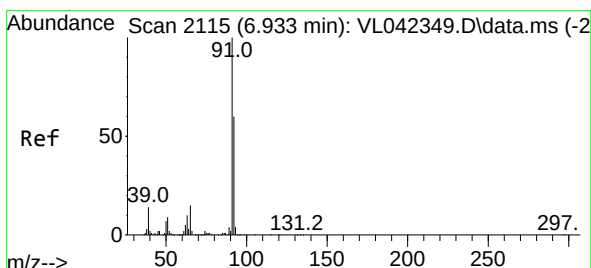
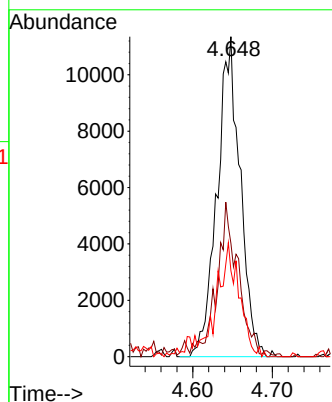
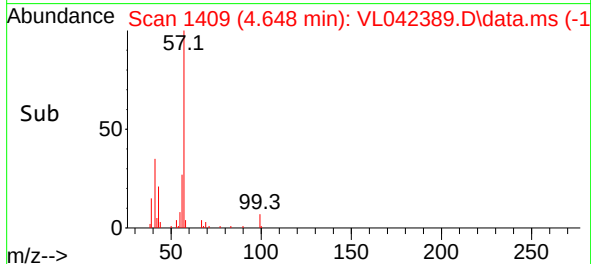
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL2



Tgt Ion: 57 Resp: 22870
Ion Ratio Lower Upper
57 100
41 46.4 27.2 40.8
56 0.0 25.7 38.5

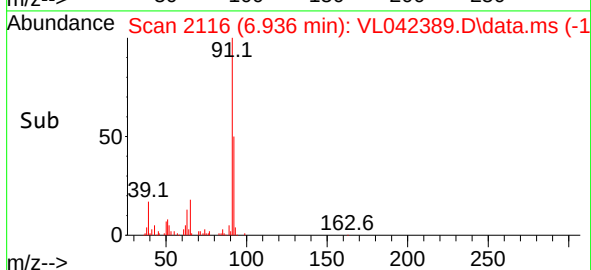
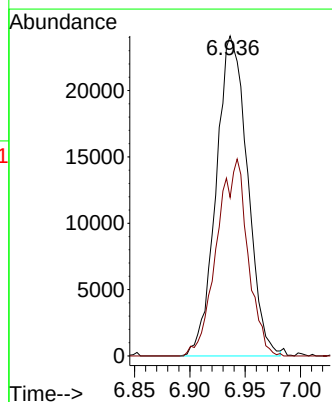
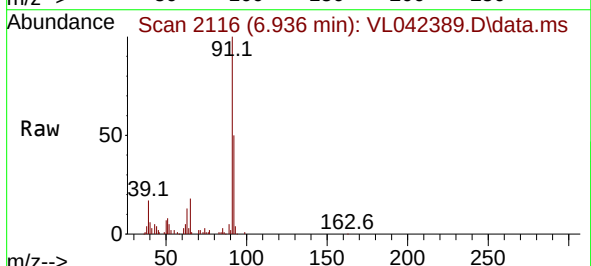
Manual Integrations
APPROVED

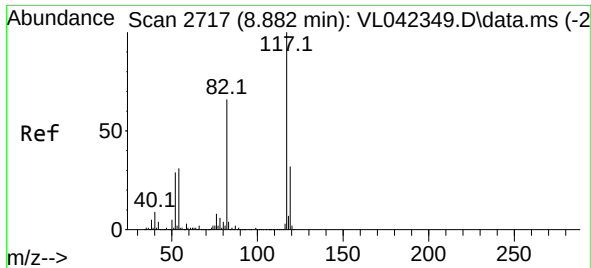
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025



#53
Toluene
Concen: 0.888 ppbv
RT: 6.936 min Scan# 2116
Delta R.T. 0.003 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

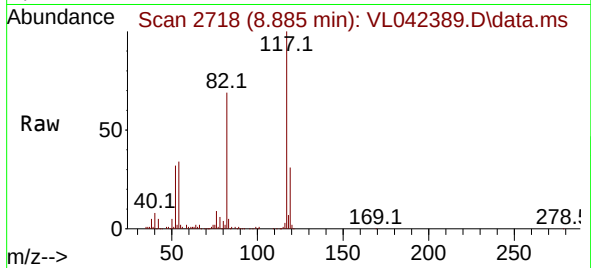
Tgt Ion: 91 Resp: 47465
Ion Ratio Lower Upper
91 100
92 61.0 48.2 72.4





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2718
Delta R.T. 0.003 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

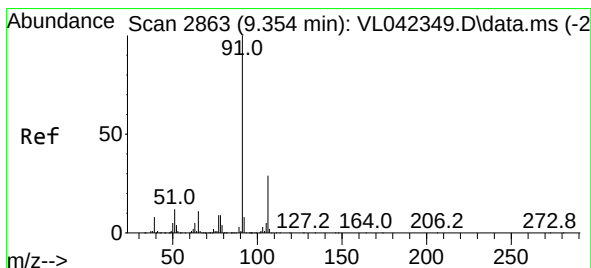
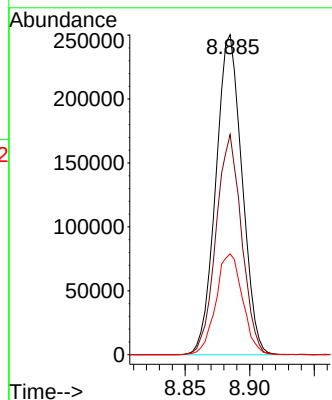
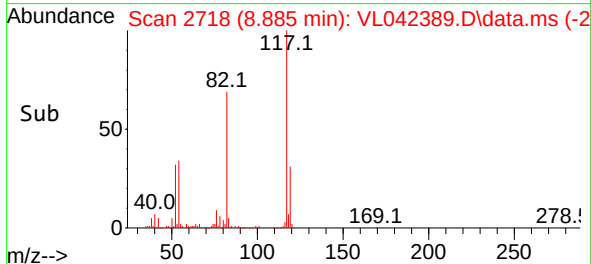
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL2



Tgt Ion:117 Resp: 353048
Ion Ratio Lower Upper
117 100
82 67.1 57.8 86.6
119 32.1 25.2 37.8

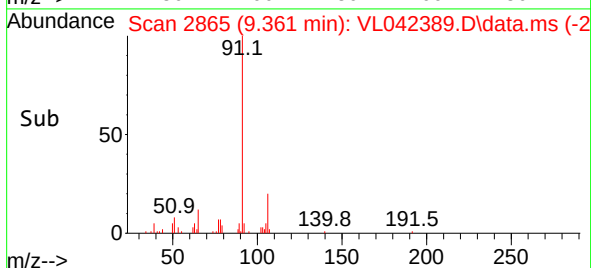
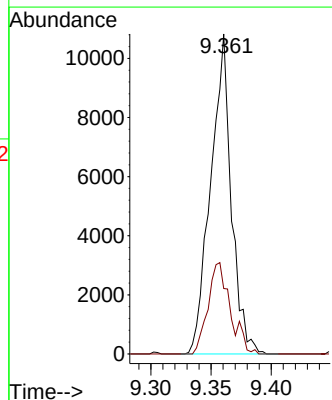
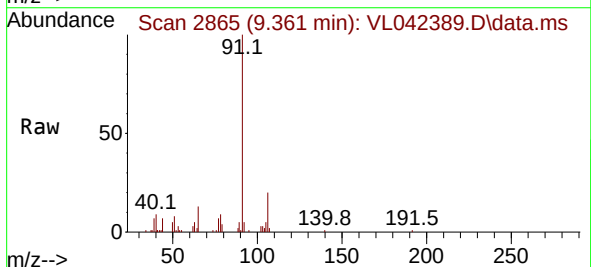
Manual Integrations
APPROVED

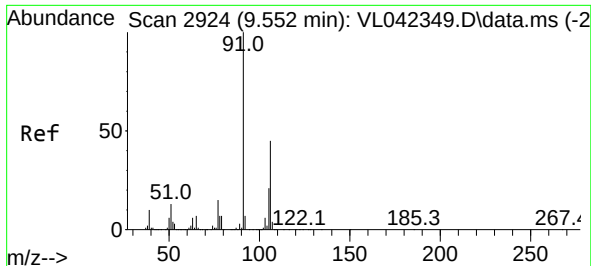
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025



#58
Ethyl Benzene
Concen: 0.185 ppbv m
RT: 9.361 min Scan# 2865
Delta R.T. 0.006 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

Tgt Ion: 91 Resp: 12921
Ion Ratio Lower Upper
91 100
106 20.5 23.0 34.4#





#59

m/p-Xylene

Concen: 0.659 ppbv

RT: 9.532 min Scan# 2918

Delta R.T. -0.019 min

Lab File: VL042389.D

Acq: 18 Apr 2025 13:43

Instrument :

MSVOA_L

ClientSampleId :

IA-B2-5-03312025DL2

Tgt Ion: 91 Resp: 37128

Ion Ratio Lower Upper

91 100

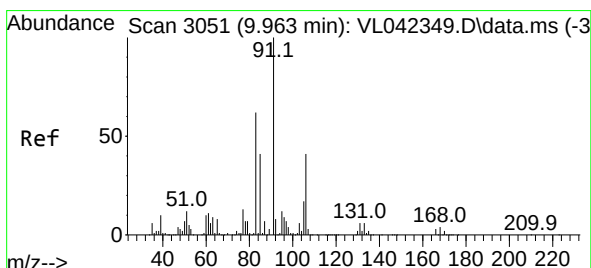
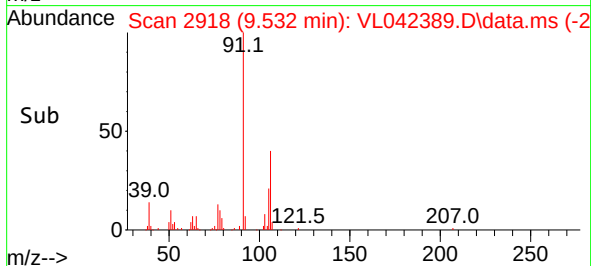
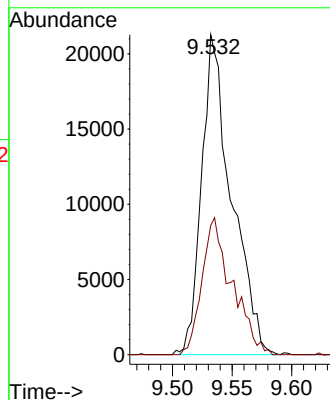
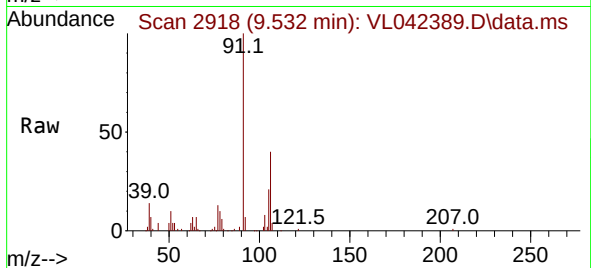
106 43.2 35.4 53.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2025

Supervised By :Mahesh Dadoda 04/21/2025



#60

o-Xylene

Concen: 0.254 ppbv

RT: 9.966 min Scan# 3052

Delta R.T. 0.003 min

Lab File: VL042389.D

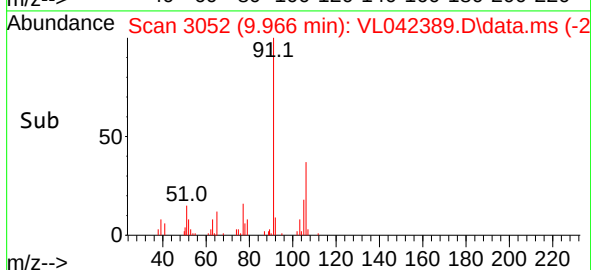
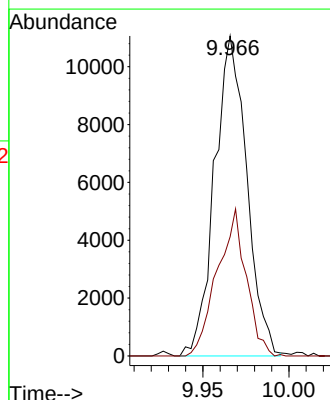
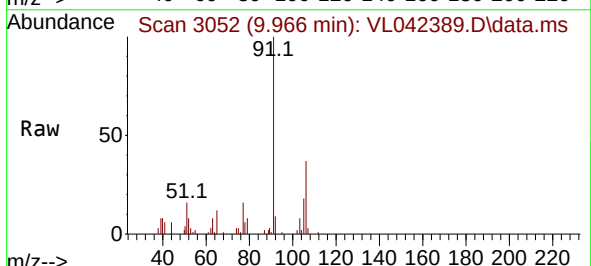
Acq: 18 Apr 2025 13:43

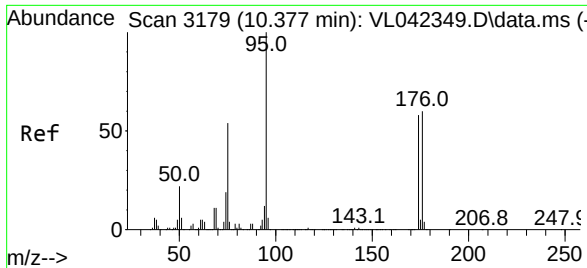
Tgt Ion: 91 Resp: 14405

Ion Ratio Lower Upper

91 100

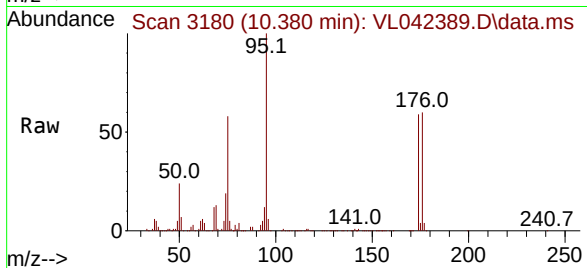
106 41.4 21.1 63.4





#68
1-Bromo-4-Fluorobenzene
Concen: 9.876 ppbv
RT: 10.380 min Scan# 3179
Delta R.T. 0.003 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

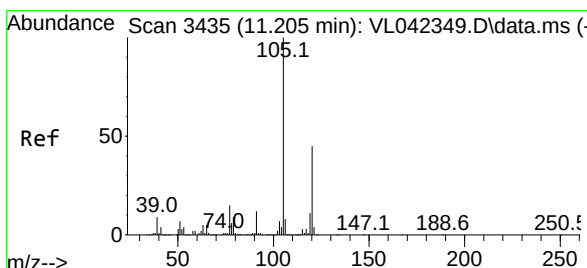
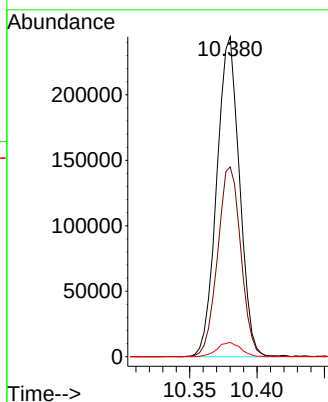
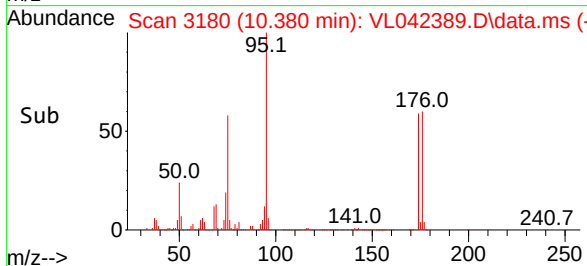
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL2



Tgt Ion: 95 Resp: 286509
Ion Ratio Lower Upper
95 100
174 60.9 48.5 72.7
175 4.6 3.7 5.5

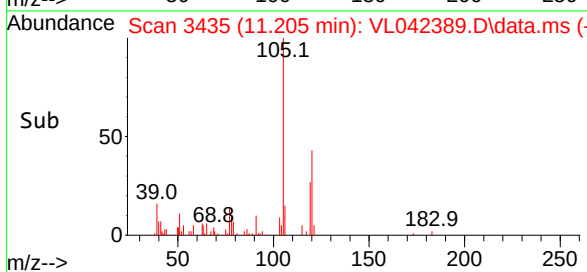
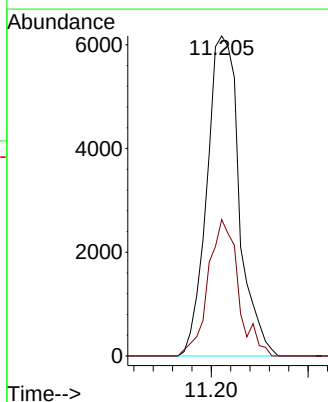
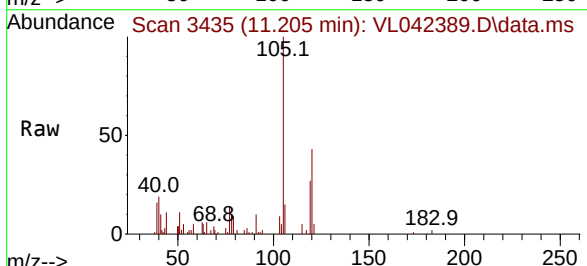
Manual Integrations
APPROVED

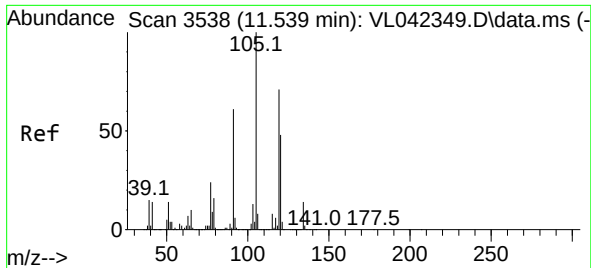
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025



#73
1,3,5-Trimethylbenzene
Concen: 0.117 ppbv
RT: 11.205 min Scan# 3435
Delta R.T. -0.000 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

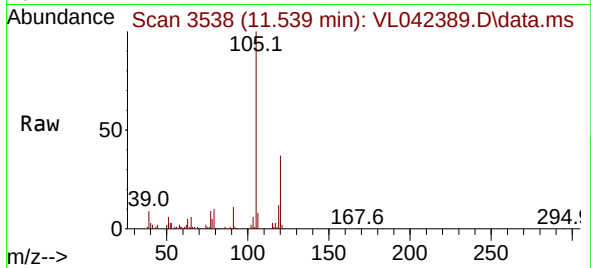
Tgt Ion:105 Resp: 7150
Ion Ratio Lower Upper
105 100
120 42.6 35.6 53.4





#74
 1,2,4-Trimethylbenzene
 Concen: 0.338 ppbv
 RT: 11.539 min Scan# 3538
 Delta R.T. -0.000 min
 Lab File: VL042389.D
 Acq: 18 Apr 2025 13:43

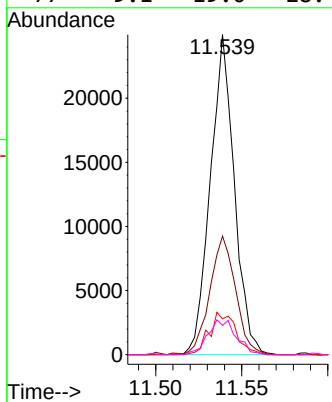
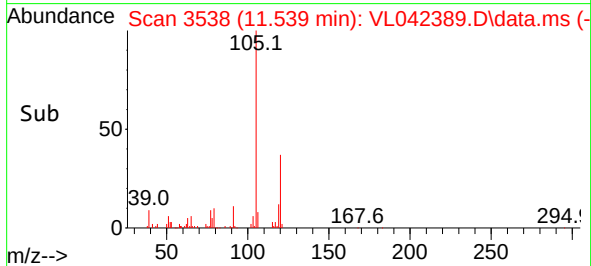
Instrument : MSVOA_L
 ClientSampleId :
 IA-B2-5-03312025DL2



Tgt Ion:	105	Resp:	2421
Ion	Ratio	Lower	Upper
105	100		
120	37.1	38.1	57.1
91	11.2	48.8	73.2
77	9.1	19.0	28.4

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2025
 Supervised By :Mahesh Dadoda 04/21/2025



Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-1-03312025	SDG No.:	Q1726
Lab Sample ID:	Q1726-05	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
VL042370.D	1		04/17/25 22:19	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.50	2.47		1.04	2.47	ug/m3
64-17-5	Ethanol	280	528	EQ	0.60	0.94	ug/m3
74-87-3	Chloromethane	0.65	1.34		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	0.25	1.40	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
593-60-2	Bromoethene	0.12	0.52	U	0.52	2.19	ug/m3
75-65-0	tert-Butyl alcohol	0.71	2.15		0.58	1.52	ug/m3
142-82-5	Heptane	4.80	19.7		0.45	2.05	ug/m3
67-63-0	Isopropyl Alcohol	36.7	90.2	E	0.17	1.23	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
67-64-1	Acetone	170	404	E	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	2.60	9.03		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	1.40	4.82		0.76	1.72	ug/m3
78-93-3	2-Butanone	1.20	3.54		0.35	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.090	0.57		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	0.030	0.16		0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	12.1	56.5		0.47	2.34	ug/m3
71-43-2	Benzene	1.30	4.15		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	30.8	116	E	0.41	1.88	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-1-03312025	SDG No.:	Q1726
Lab Sample ID:	Q1726-05	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
VL042370.D	1		04/17/25 22:19	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
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
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	0.20	1.36		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	6.20	26.9		0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	21.6	93.8		0.91	4.34	ug/m3
95-47-6	o-Xylene	8.40	36.5		0.52	2.17	ug/m3
100-42-5	Styrene	0.38	1.62	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	0.80	4.14		0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	3.40	16.7		0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	9.30	45.7		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	0.15	0.90	J	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	0.36	1.89		0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	3.10	15.2		0.59	2.46	ug/m3
110-54-3	Hexane	3.90	13.7		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	10.0		70 (65) - 130 (135)	100%	SPK: 10
----------	-------------------------	------	--	---------------------	------	---------

INTERNAL STANDARDS

74-97-5	Bromochloromethane	114000	2.787
540-36-3	1,4-Difluorobenzene	331000	3.959
3114-55-4	Chlorobenzene-d5	291000	8.882

TENTATIVE IDENTIFIED COMPOUNDS

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-1-03312025	SDG No.:	Q1726
Lab Sample ID:	Q1726-05	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
VL042370.D	1		04/17/25 22:19	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
75-45-6	Chlorodifluoromethane	0.28		J		1.47	ppbv
115-07-1	Propene	3.10		J		1.49	ppbv
000106-97-8	Butane	10.0		J		1.62	ppbv
000071-23-8	1-Propanol	4.30		J		2.27	ppbv
000096-37-7	Cyclopentane, methyl-	4.50		J		3.23	ppbv
000591-76-4	Hexane, 2-methyl-	6.10		J		4.05	ppbv
000589-34-4	Hexane, 3-methyl-	6.90		J		4.27	ppbv
000108-87-2	Cyclohexane, methyl-	5.70		J		5.66	ppbv
000565-75-3	Pentane, 2,3,4-trimethyl-	8.30		J		6.83	ppbv
000589-81-1	Heptane, 3-methyl-	5.50		J		7.60	ppbv
016747-26-5	Hexane, 2,2,4-trimethyl-	4.10		J		7.89	ppbv
000111-65-9	Octane	5.90		J		8.30	ppbv
98-82-8	Isopropylbenzene	0.57		J		10.5	ppbv
103-65-1	n-propylbenzene	1.90		J		11.0	ppbv
135-98-8	sec-Butylbenzene	0.13		J		11.8	ppbv
99-87-6	p-Isopropyltoluene	0.24		J		11.9	ppbv
104-51-8	n-Butylbenzene	0.55		J		12.3	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 : VL042370.D
 Acq On : 17 Apr 2025 22:19
 Operator : SY/MD
 Sample : Q1726-05
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-1-03312025

Manual Integrations
 APPROVED

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

Quant Time: Apr 18 02:45:15 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	113751	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	331268	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	291013	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	238323	9.966	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.700%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	10027	0.499	ppbv	94
3) Chlorodifluoromethane	1.473	51	5371m	0.281	ppbv	
4) Chloromethane	1.534	50	5131	0.645	ppbv	99
9) Propene	1.489	41	27016m	3.100	ppbv	
10) Heptane	4.978	43	117936	4.816	ppbv	99
11) Trichlorofluoromethane	1.878	101	4815	0.252	ppbv	98
13) Ethanol	1.722	45	389165	280.929	ppbv	76
15) Acetone	1.835	43	3179147	170.726	ppbv #	41
17) tert-Butyl alcohol	2.046	59	16324m	0.707	ppbv	
19) Isopropyl Alcohol	1.887	45	379189	36.656	ppbv #	33
20) Methylene Chloride	2.062	84	19314	2.648	ppbv	94
26) Hexane	2.826	57	72332	3.893	ppbv #	40
30) Cyclohexane	3.852	84	20839m	1.387	ppbv	
32) 1,1,1-Trichloroethane	3.370	97	984m	0.033	ppbv	
34) 2-Butanone	2.560	43	30710	1.172	ppbv	97
35) Carbon Tetrachloride	3.761	117	2547	0.085	ppbv #	65
36) Benzene	3.654	78	46043	1.289	ppbv	96
44) 2,2,4-Trimethylpentane	4.642	57	746896	12.103	ppbv	97
52) Tetrachloroethene	8.231	164	2745m	0.199	ppbv	
53) Toluene	6.933	91	1320170	30.789	ppbv	100
58) Ethyl Benzene	9.354	91	360069	6.245	ppbv	99
59) m/p-Xylene	9.532	91	1004159	21.619	ppbv	100
60) o-Xylene	9.966	91	393388	8.410	ppbv	99
61) Styrene	9.872	104	8391	0.376	ppbv	95
62) Isopropylbenzene	10.539	105	39493	0.575	ppbv	95
64) n-propylbenzene	10.989	120	32073	1.858	ppbv	96
67) sec-Butylbenzene	11.769	105	11229	0.128	ppbv #	62
69) p-Isopropyltoluene	11.924	119	18095	0.237	ppbv	99
70) n-Butylbenzene	12.283	91	43525	0.548	ppbv #	42
71) 2-Chlorotoluene	10.905	91	42867	0.796	ppbv	97
72) 4-Ethyltoluene	11.128	105	178872	3.128	ppbv #	56
73) 1,3,5-Trimethylbenzene	11.206	105	173796	3.443	ppbv	98
74) 1,2,4-Trimethylbenzene	11.536	105	550459	9.336	ppbv #	63
76) 1,4-Dichlorobenzene	11.672	146	4575	0.149	ppbv	87
79) Naphthalene	13.513	128	25684	0.364	ppbv	97

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

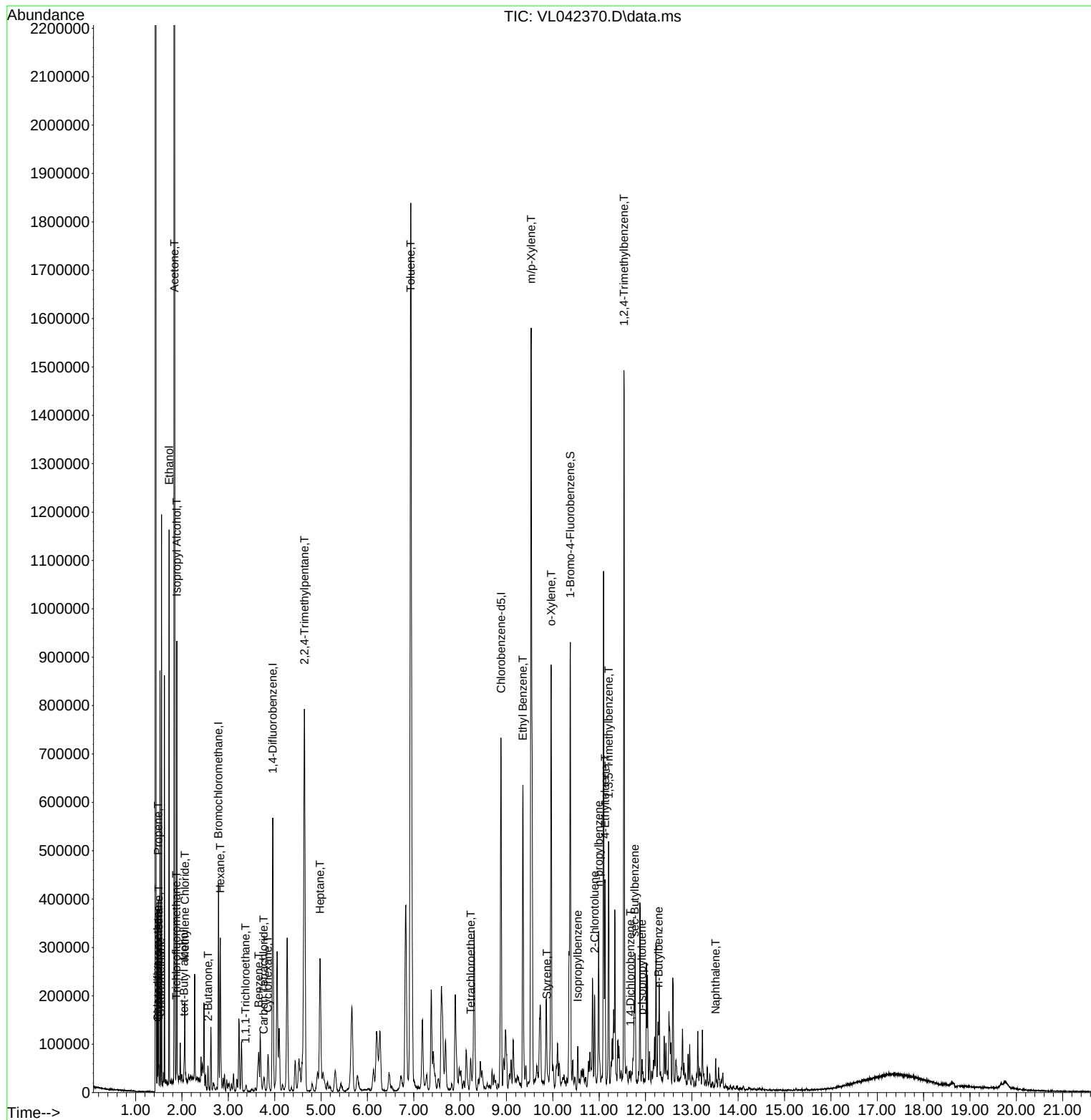
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042370.D
Acq On : 17 Apr 2025 22:19
Operator : SY/MD
Sample : Q1726-05
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

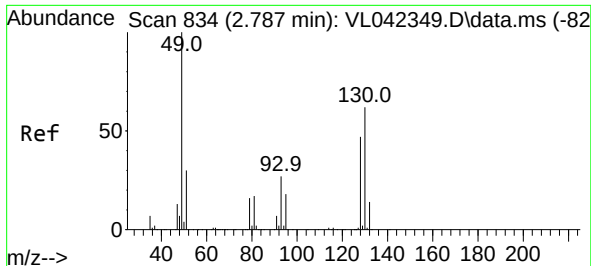
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

Quant Time: Apr 18 02:45:15 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

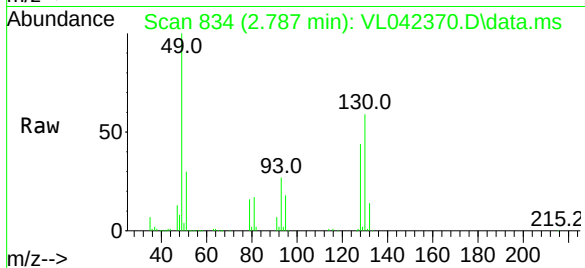
Reviewed By : Semsettin Yesilyurt 04/18/2025
Supervised By : Mahesh Dadoda 04/18/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 834
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

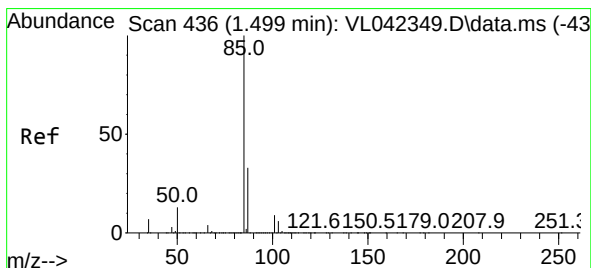
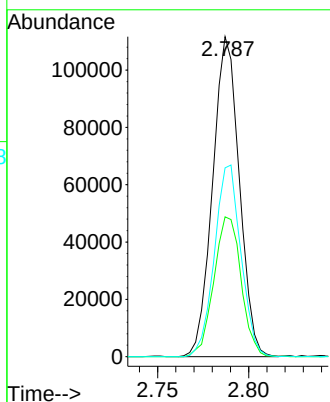
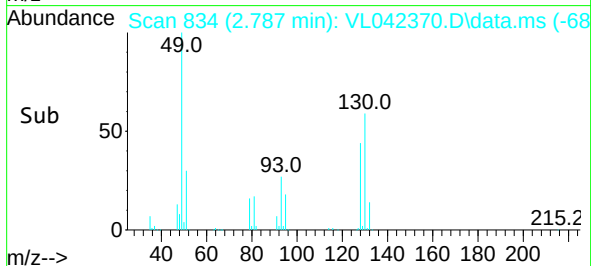
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025



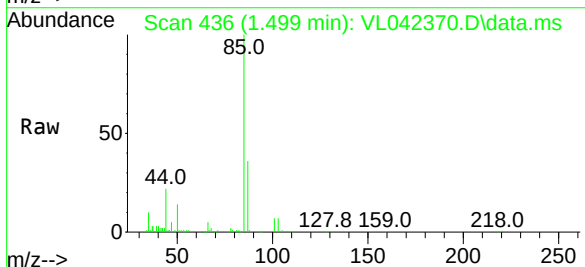
Tgt Ion: 49 Resp: 11375
Ion Ratio Lower Upper
49 100
128 44.7 22.8 68.4
130 59.5 29.3 88.0

Manual Integrations
APPROVED

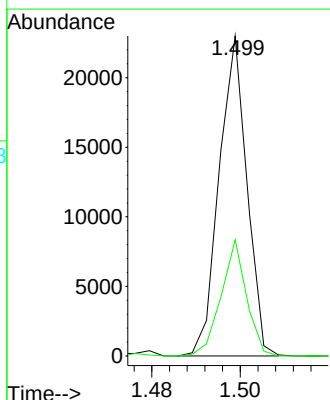
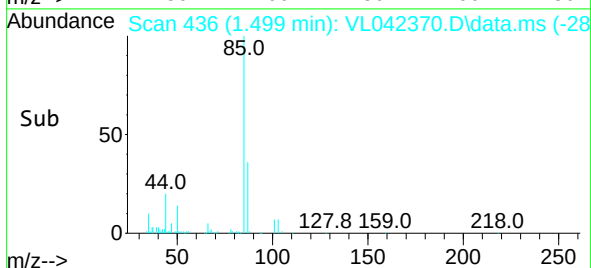
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

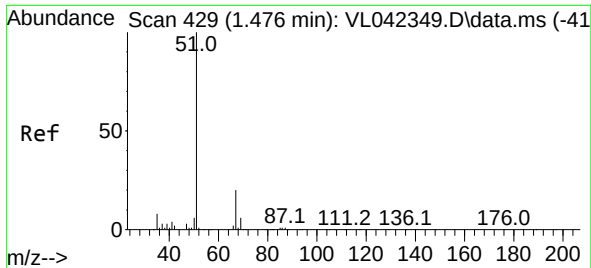


#2
Dichlorodifluoromethane
Concen: 0.499 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19



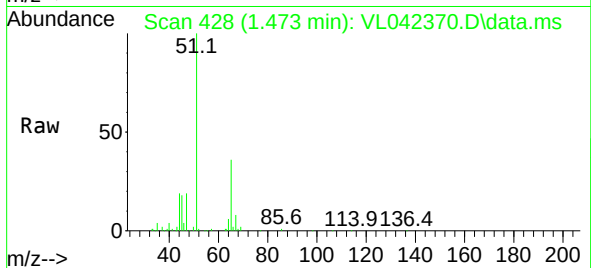
Tgt Ion: 85 Resp: 10027
Ion Ratio Lower Upper
85 100
87 36.3 26.6 39.8





#3
Chlorodifluoromethane
Concen: 0.281 ppbv m
RT: 1.473 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

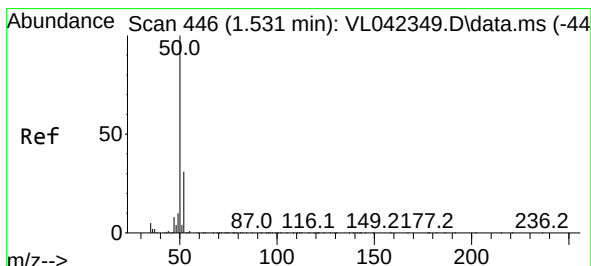
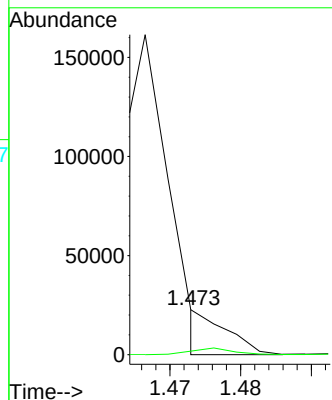
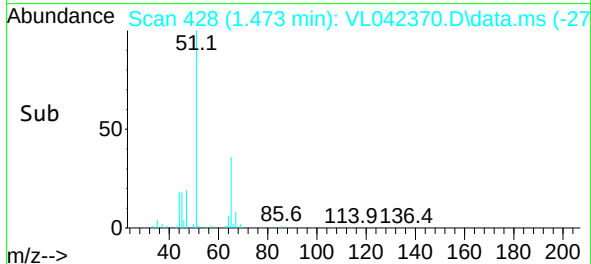
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025



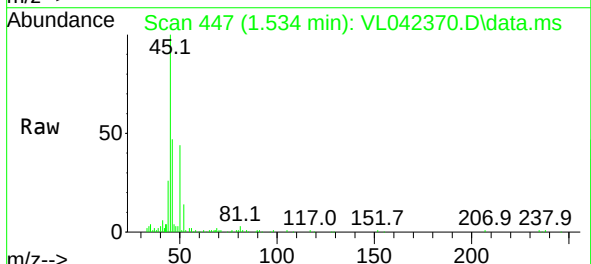
Tgt Ion: 51 Resp: 537
Ion Ratio Lower Upper
51 100
67 29.8 16.2 24.4

Manual Integrations
APPROVED

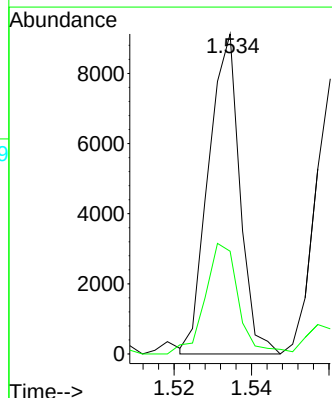
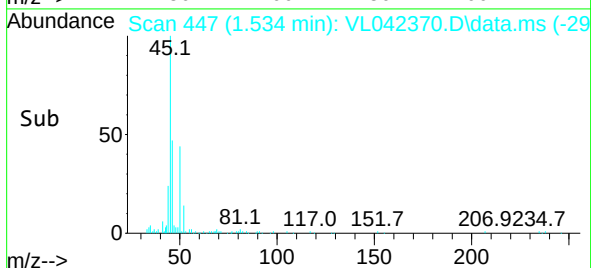
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

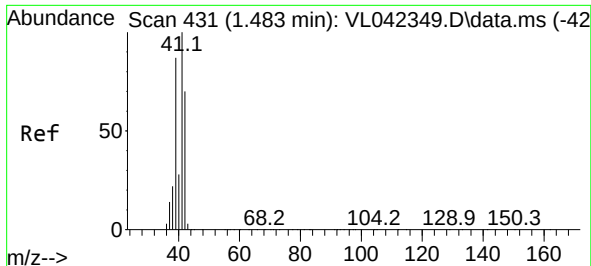


#4
Chloromethane
Concen: 0.645 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19



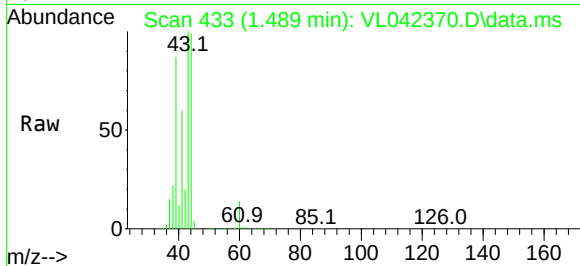
Tgt Ion: 50 Resp: 5131
Ion Ratio Lower Upper
50 100
52 31.2 24.7 37.1





#9
 Propene
 Concen: 3.100 ppbv m
 RT: 1.489 min Scan# 41
 Delta R.T. 0.007 min
 Lab File: VL042370.D
 Acq: 17 Apr 2025 22:19

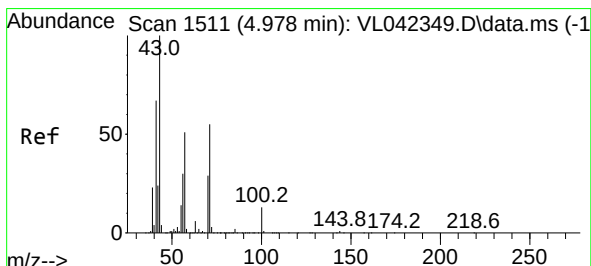
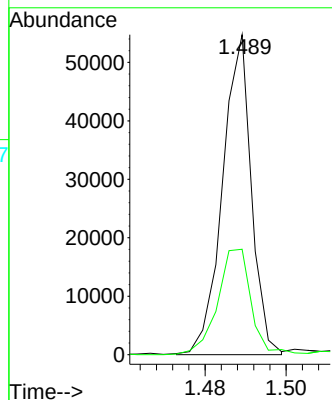
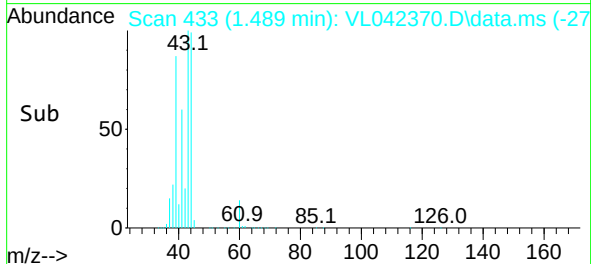
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-1-03312025



Tgt Ion: 41 Resp: 27010
 Ion Ratio Lower Upper
 41 100
 42 333.1 56.2 84.4

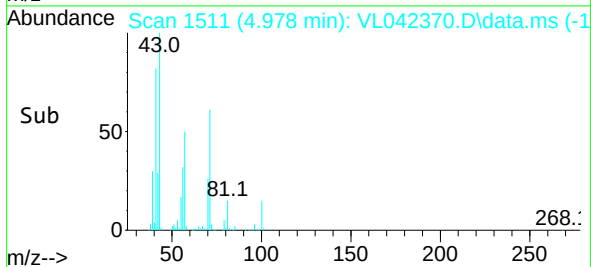
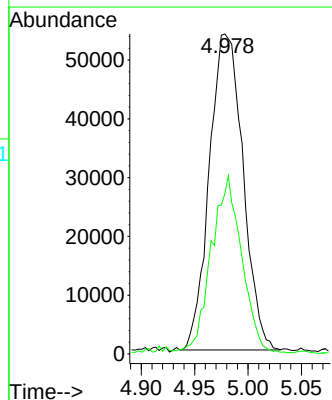
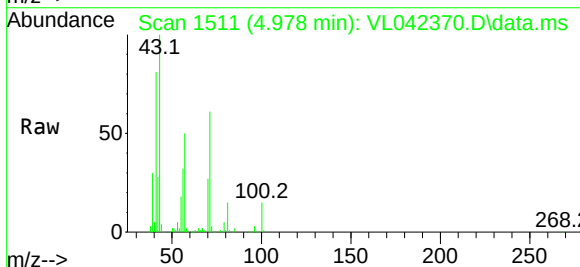
Manual Integrations
 APPROVED

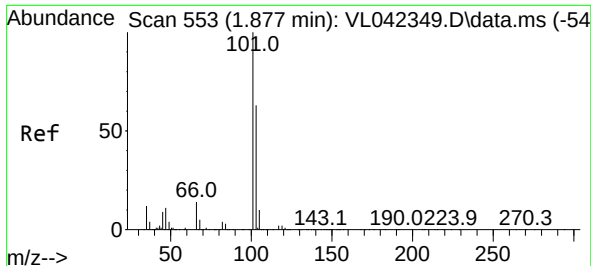
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#10
 Heptane
 Concen: 4.816 ppbv
 RT: 4.978 min Scan# 1511
 Delta R.T. 0.000 min
 Lab File: VL042370.D
 Acq: 17 Apr 2025 22:19

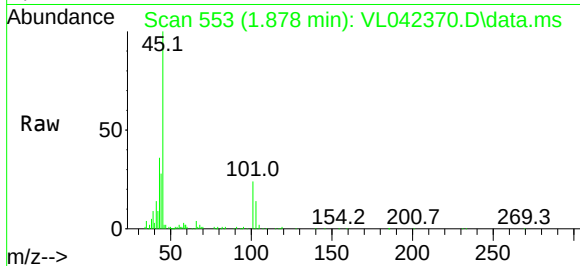
Tgt Ion: 43 Resp: 117936
 Ion Ratio Lower Upper
 43 100
 57 50.5 39.9 59.9





#11
Trichlorofluoromethane
Concen: 0.252 ppbv
RT: 1.878 min Scan# 501
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

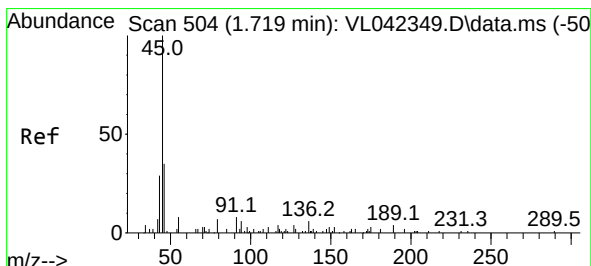
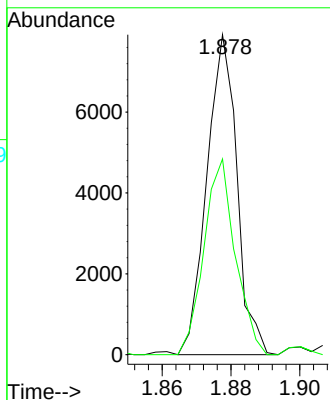
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025



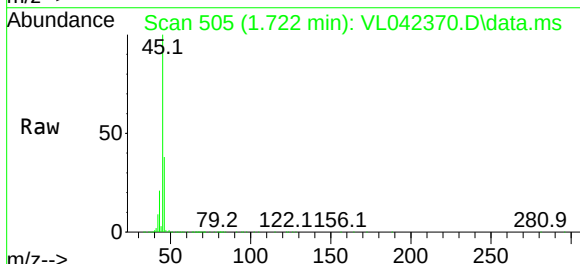
Tgt Ion:101 Resp: 4815
Ion Ratio Lower Upper
101 100
103 61.2 50.1 75.1

Manual Integrations
APPROVED

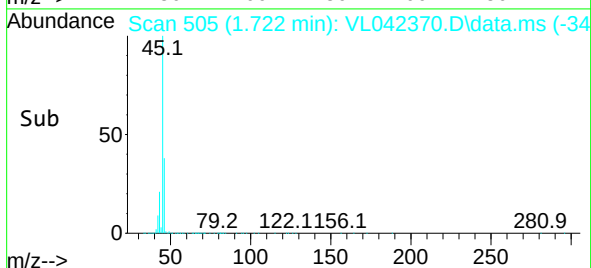
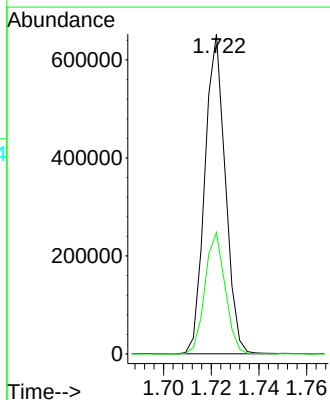
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

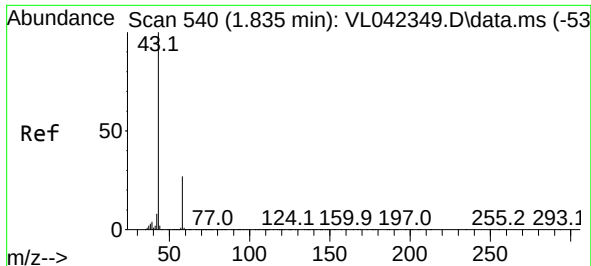


#13
Ethanol
Concen: 280.929 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19



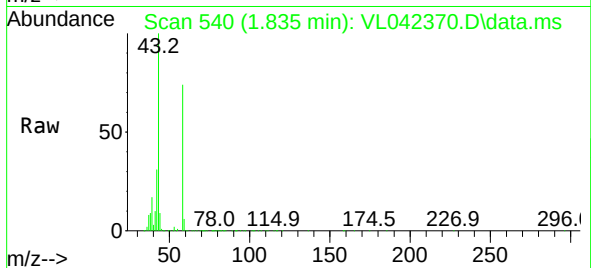
Tgt Ion: 45 Resp: 389165
Ion Ratio Lower Upper
45 100
46 37.8 21.9 87.7





#15
Acetone
Concen: 170.726 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

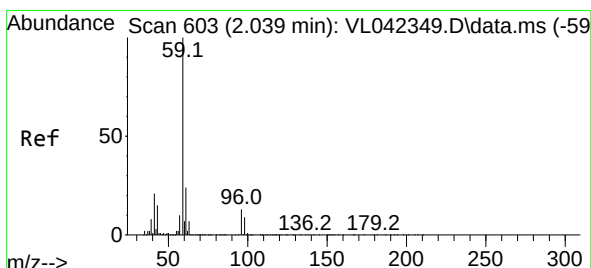
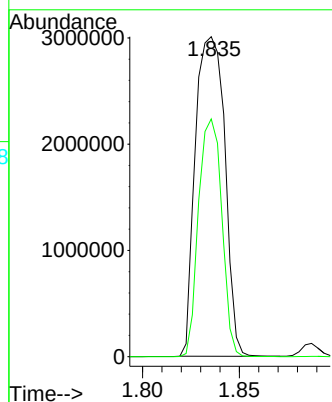
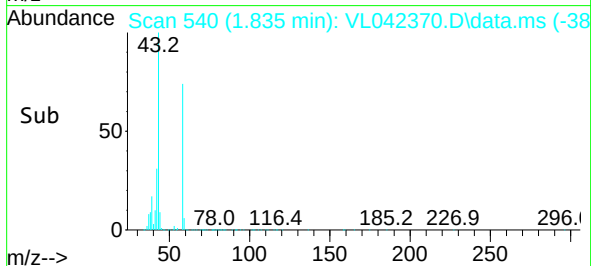
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025



Tgt Ion: 43 Resp: 317914
Ion Ratio Lower Upper
43 100
58 59.0 22.4 33.6

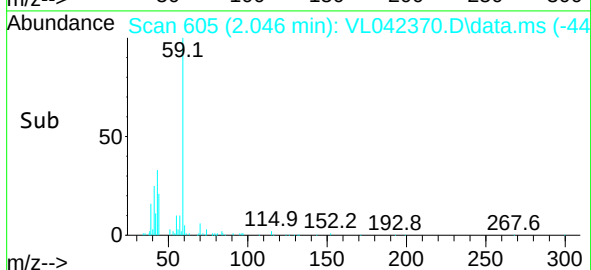
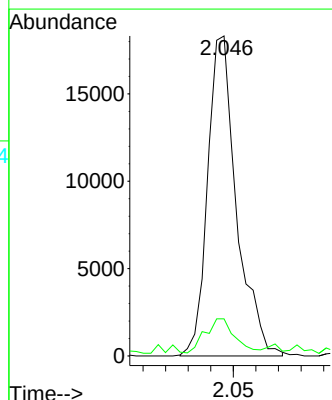
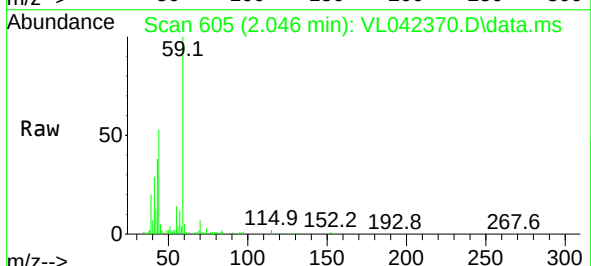
Manual Integrations
APPROVED

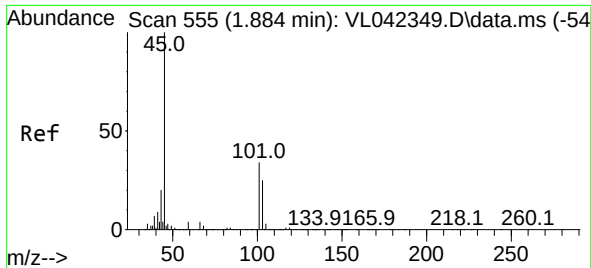
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#17
tert-Butyl alcohol
Concen: 0.707 ppbv m
RT: 2.046 min Scan# 605
Delta R.T. 0.007 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

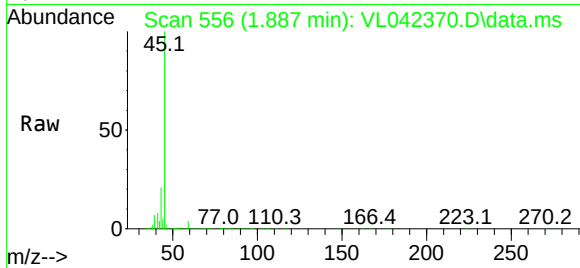
Tgt Ion: 59 Resp: 16324
Ion Ratio Lower Upper
59 100
57 25.6 8.7 13.1





#19
Isopropyl Alcohol
Concen: 36.656 ppbv
RT: 1.887 min Scan# 555
Delta R.T. 0.003 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

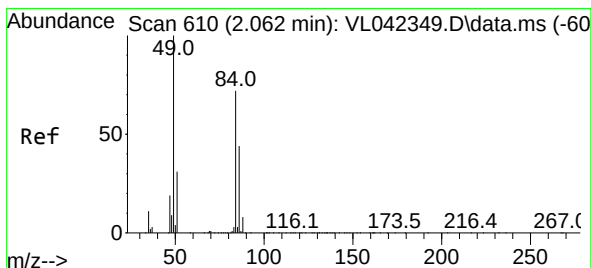
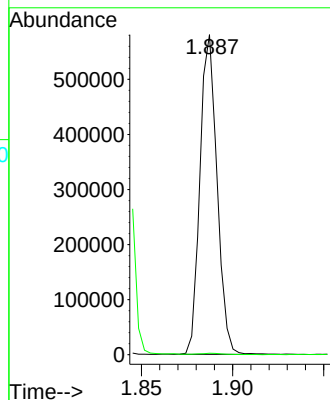
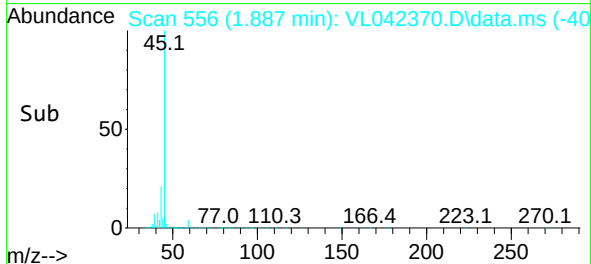
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025



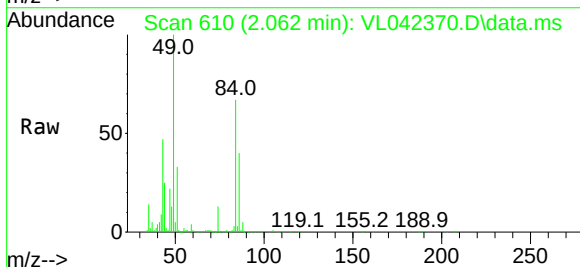
Tgt Ion: 45 Resp: 379189
Ion Ratio Lower Upper
45 100
58 0.0 34.5 51.7

Manual Integrations
APPROVED

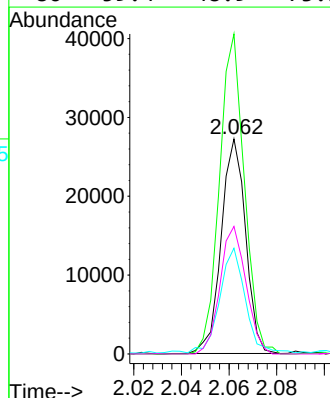
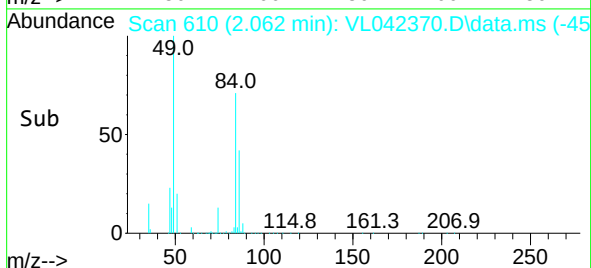
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

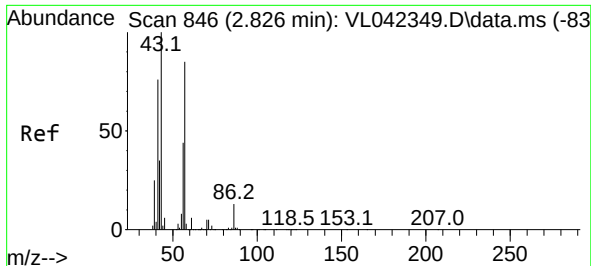


#20
Methylene Chloride
Concen: 2.648 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19



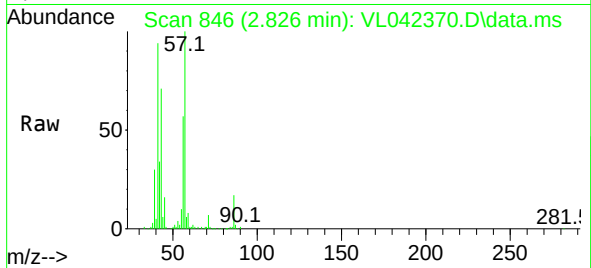
Tgt Ion: 84 Resp: 19314
Ion Ratio Lower Upper
84 100
49 149.1 111.6 167.4
51 48.0 35.1 52.7
86 59.4 48.9 73.3





#26
Hexane
Concen: 3.893 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

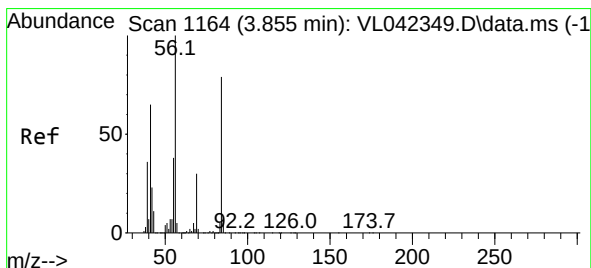
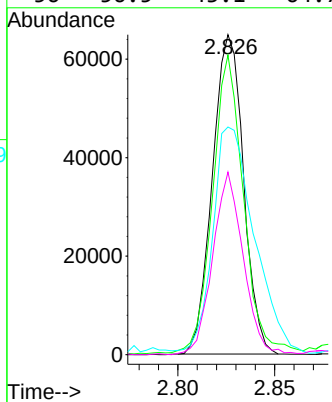
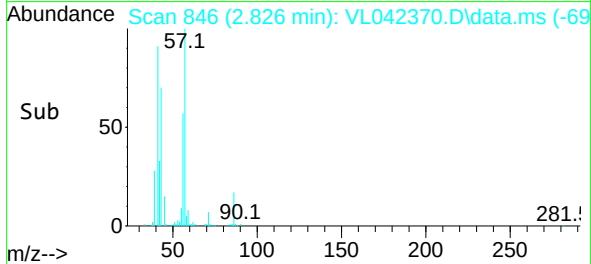
Instrument : MSVOA_L
ClientSampleId : IA-B2-1-03312025



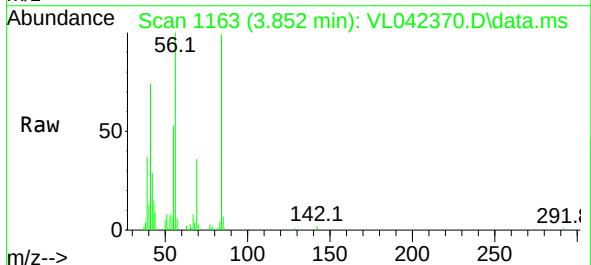
Tgt Ion: 57 Resp: 72332
Ion Ratio Lower Upper
57 100
41 93.6 77.9 116.9
43 95.6 208.4 312.6
56 56.5 43.1 64.7

Manual Integrations
APPROVED

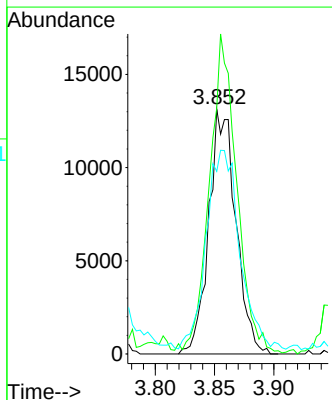
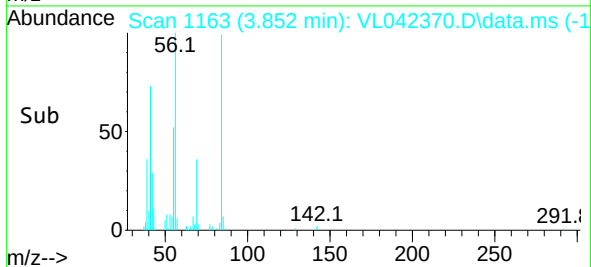
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

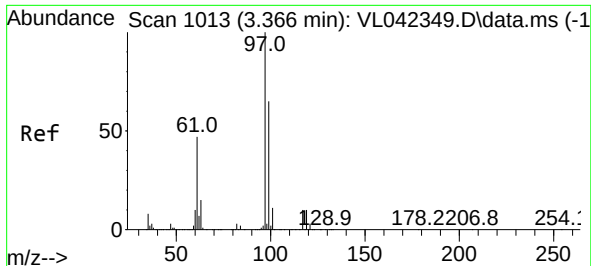


#30
Cyclohexane
Concen: 1.387 ppbv m
RT: 3.852 min Scan# 1163
Delta R.T. -0.003 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19



Tgt Ion: 84 Resp: 20839
Ion Ratio Lower Upper
84 100
56 132.3 101.0 151.4
41 102.7 67.4 101.0#





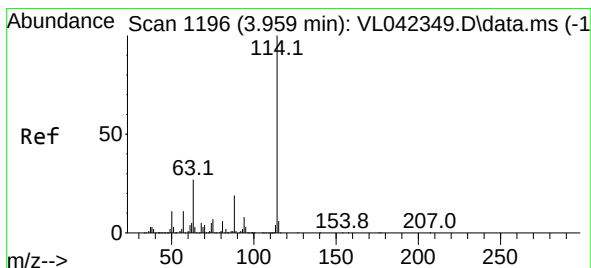
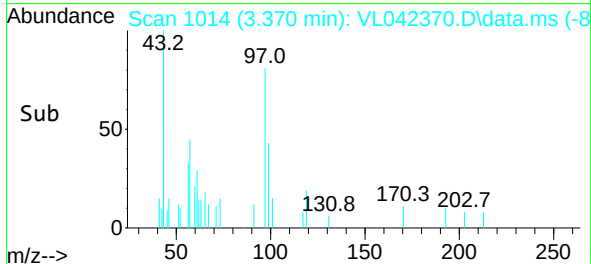
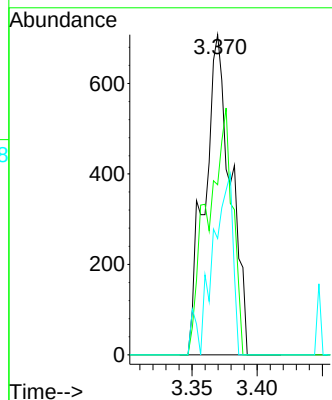
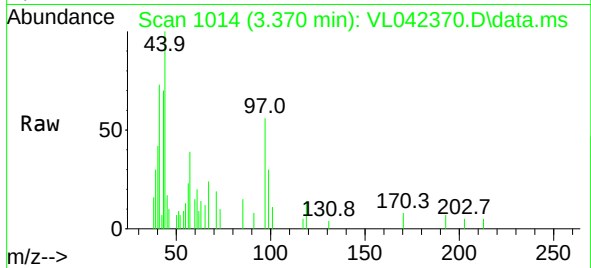
#32
1,1,1-Trichloroethane
Concen: 0.033 ppbv m
RT: 3.370 min Scan# 1013
Delta R.T. 0.003 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

Tgt Ion: 97 Resp: 984
Ion Ratio Lower Upper
97 100
99 0.0 51.0 76.4
61 0.0 38.8 58.2

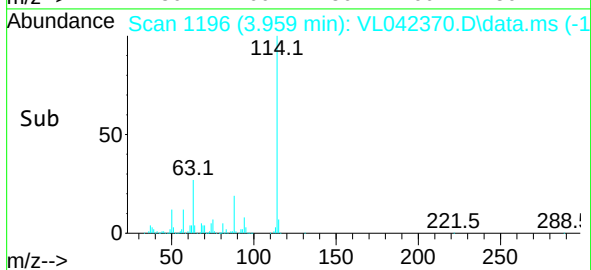
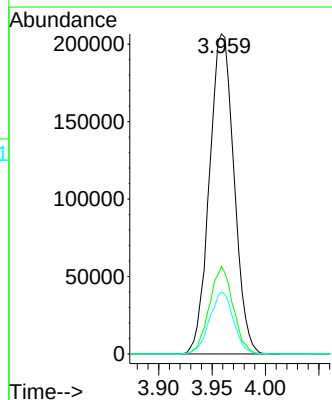
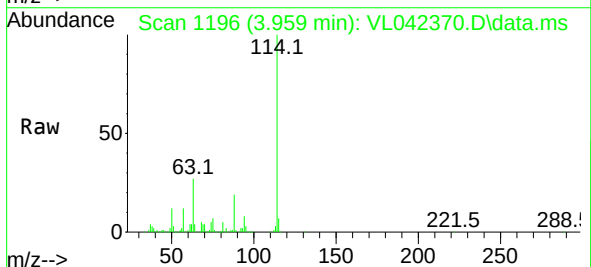
Manual Integrations
APPROVED

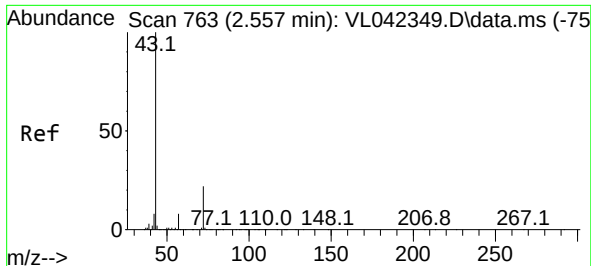
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

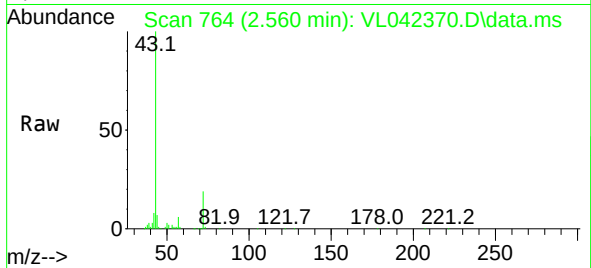
Tgt Ion:114 Resp: 331268
Ion Ratio Lower Upper
114 100
63 26.3 21.8 32.6
88 18.8 15.5 23.3





#34
2-Butanone
Concen: 1.172 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

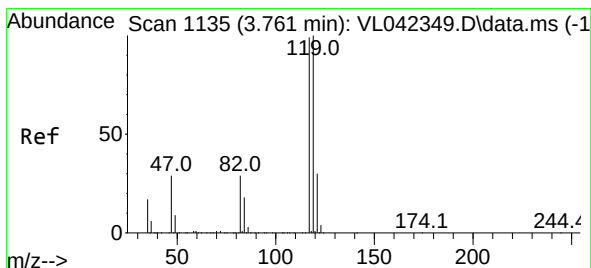
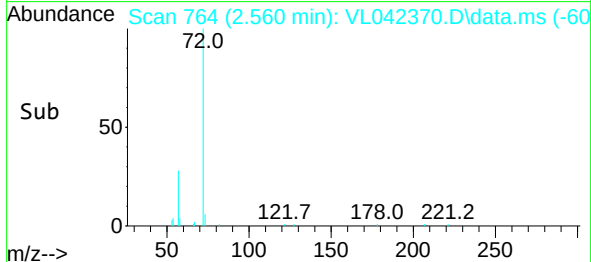
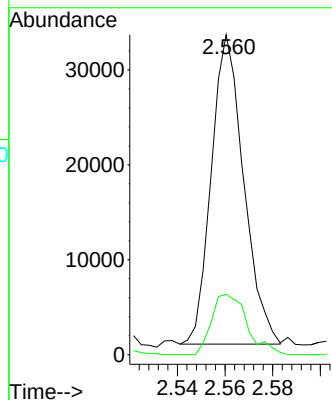
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025



Tgt Ion: 43 Resp: 30710
Ion Ratio Lower Upper
43 100
72 21.4 18.2 27.2

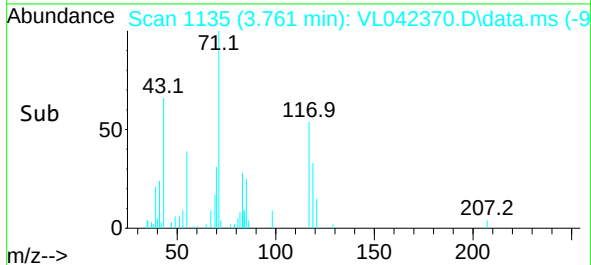
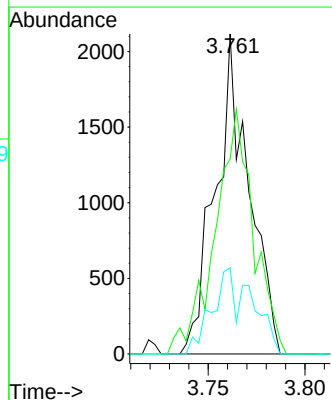
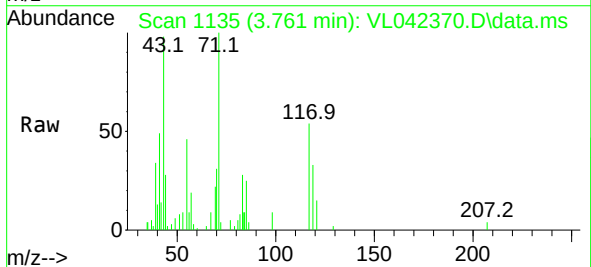
Manual Integrations
APPROVED

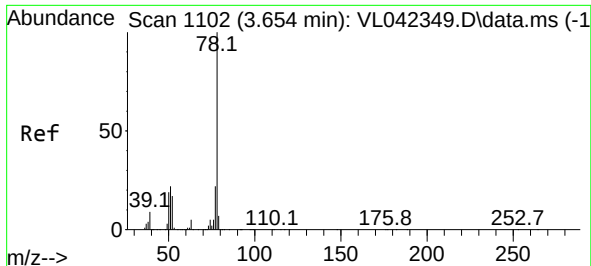
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#35
Carbon Tetrachloride
Concen: 0.085 ppbv
RT: 3.761 min Scan# 1135
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion:117 Resp: 2547
Ion Ratio Lower Upper
117 100
119 56.7 80.5 120.7#
121 26.9 24.2 36.2





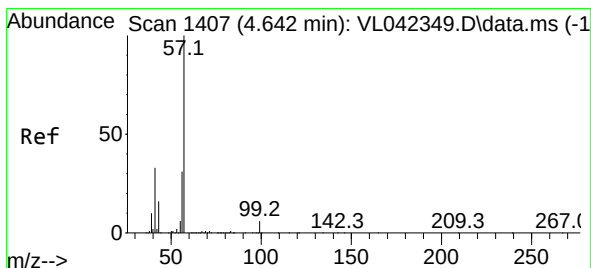
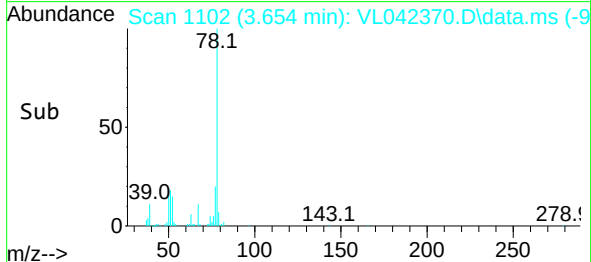
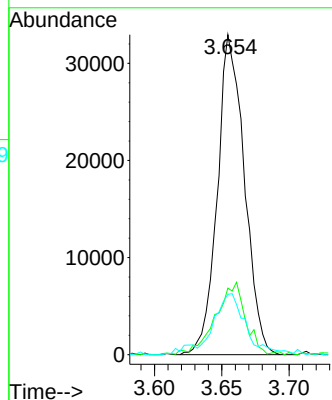
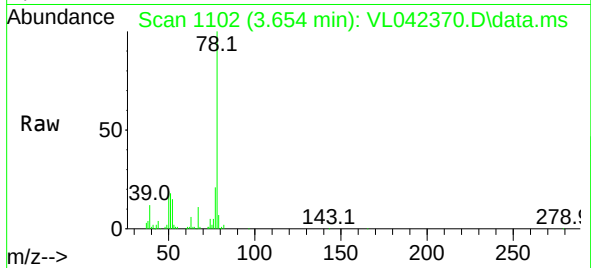
#36
Benzene
Concen: 1.289 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Instrument : MSVOA_L
ClientSampleId : IA-B2-1-03312025

Tgt Ion: 78 Resp: 4604
Ion Ratio Lower Upper
78 100
77 20.0 17.4 26.0
50 17.7 15.5 23.3

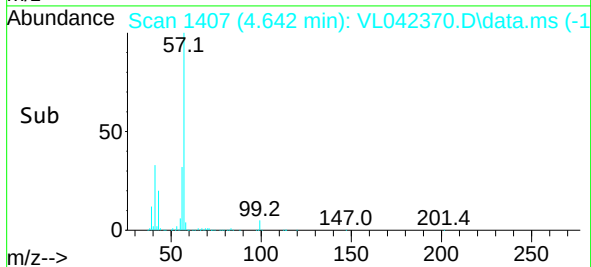
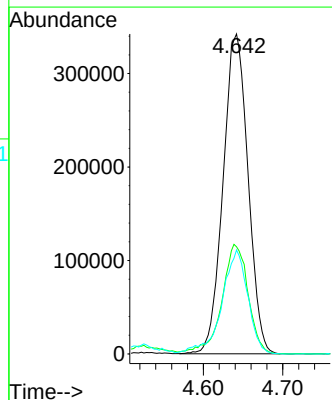
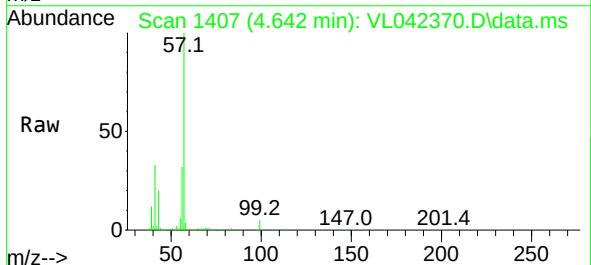
Manual Integrations
APPROVED

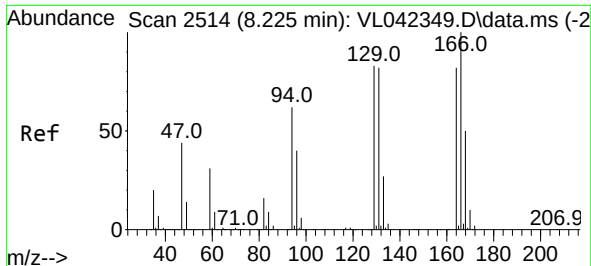
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#44
2,2,4-Trimethylpentane
Concen: 12.103 ppbv
RT: 4.642 min Scan# 1407
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

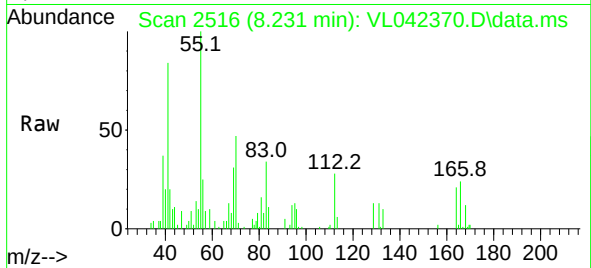
Tgt Ion: 57 Resp: 746896
Ion Ratio Lower Upper
57 100
41 36.1 27.2 40.8
56 33.9 25.7 38.5





#52
Tetrachloroethene
Concen: 0.199 ppbv m
RT: 8.231 min Scan# 2115
Delta R.T. 0.007 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

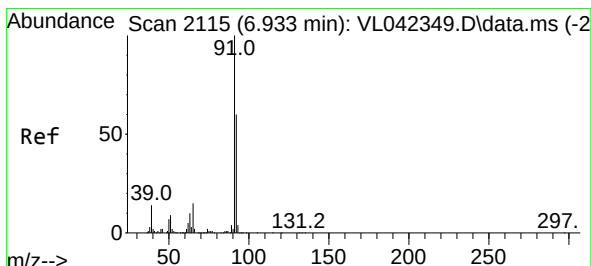
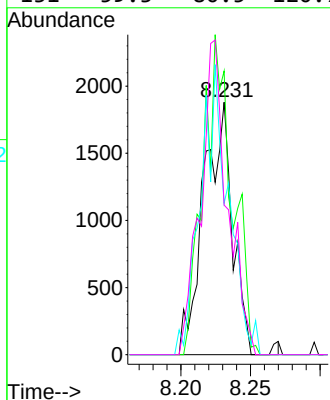
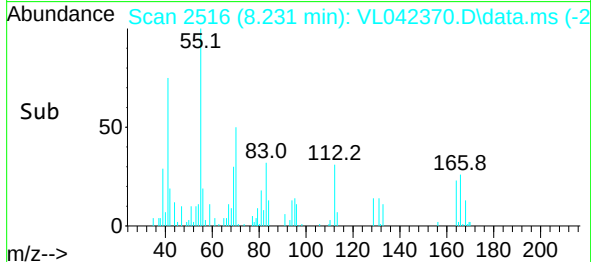
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025



Tgt Ion:164 Resp: 274
Ion Ratio Lower Upper
164 100
166 112.4 98.2 147.2
129 60.0 81.8 122.8
131 59.3 80.5 120.7#

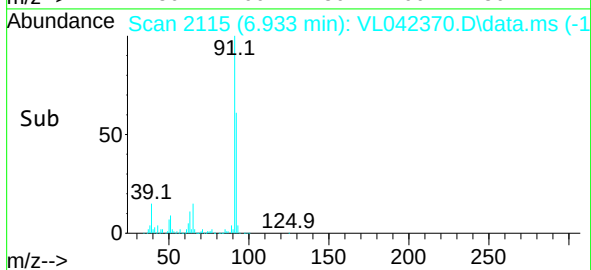
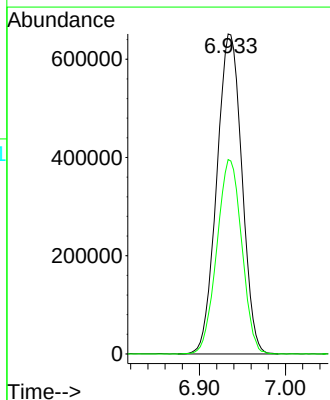
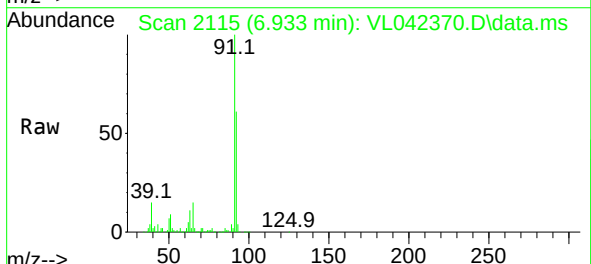
Manual Integrations
APPROVED

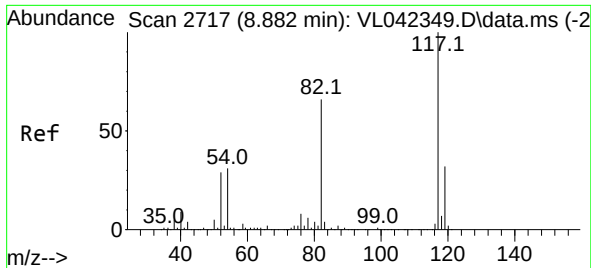
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#53
Toluene
Concen: 30.789 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion: 91 Resp: 1320170
Ion Ratio Lower Upper
91 100
92 60.4 48.2 72.4





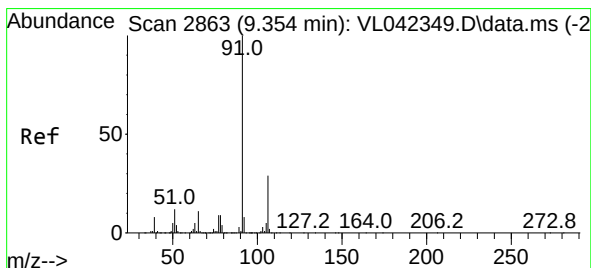
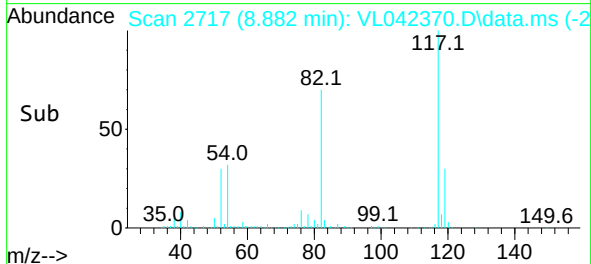
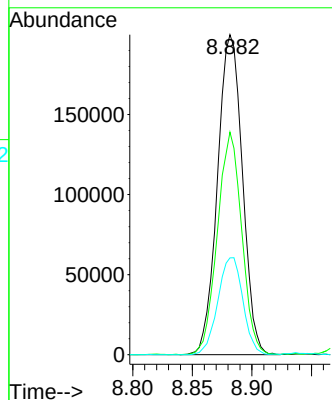
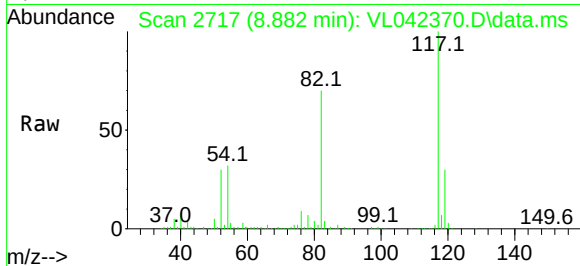
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2717
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

Tgt Ion:117 Resp: 291011
Ion Ratio Lower Upper
117 100
82 67.8 57.8 86.6
119 30.5 25.2 37.8

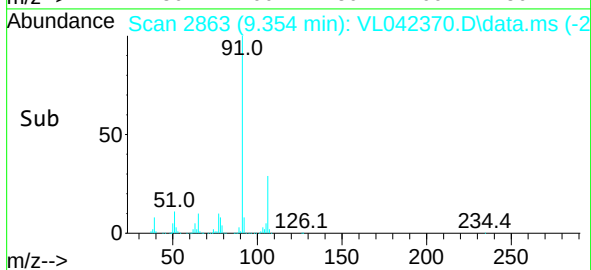
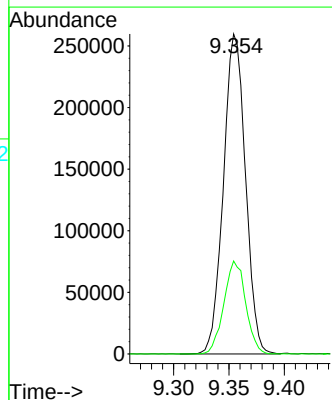
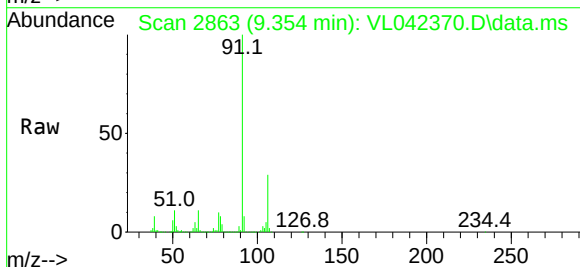
Manual Integrations
APPROVED

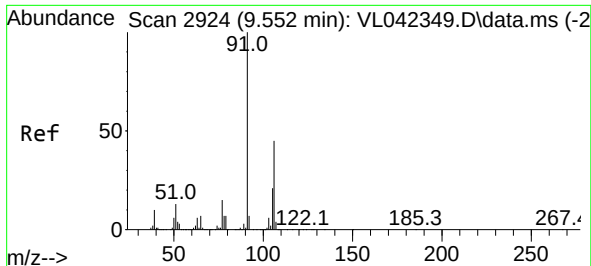
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#58
Ethyl Benzene
Concen: 6.245 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion: 91 Resp: 360069
Ion Ratio Lower Upper
91 100
106 29.1 23.0 34.4





#59

m/p-Xylene

Concen: 21.619 ppbv

RT: 9.532 min Scan# 2918

Delta R.T. -0.019 min

Lab File: VL042370.D

Acq: 17 Apr 2025 22:19

Instrument :

MSVOA_L

ClientSampleId :

IA-B2-1-03312025

Tgt Ion: 91 Resp: 100415

Ion Ratio Lower Upper

91 100

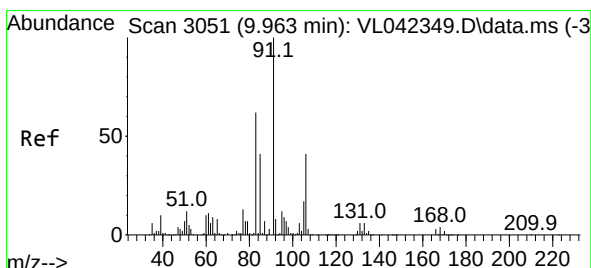
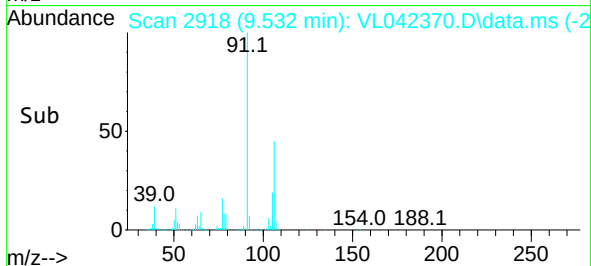
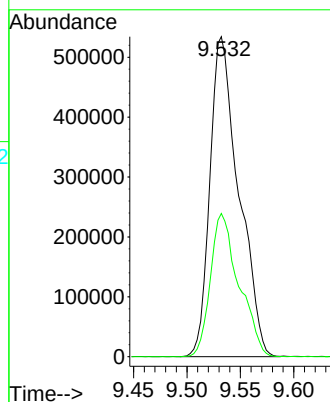
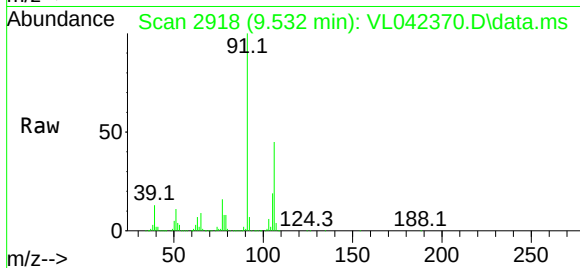
106 44.2 35.4 53.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#60

o-Xylene

Concen: 8.410 ppbv

RT: 9.966 min Scan# 3052

Delta R.T. 0.003 min

Lab File: VL042370.D

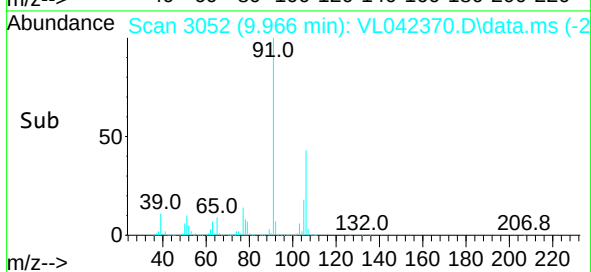
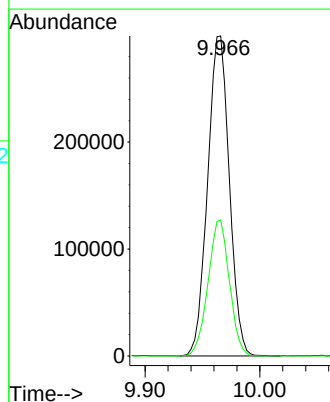
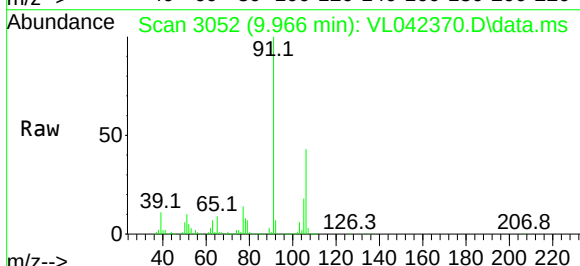
Acq: 17 Apr 2025 22:19

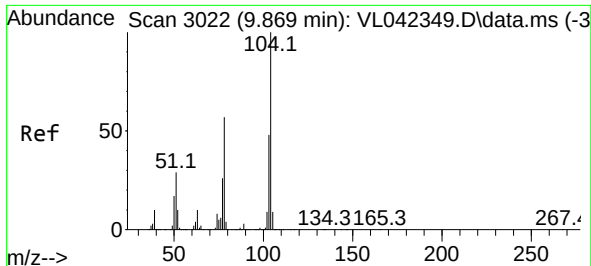
Tgt Ion: 91 Resp: 393388

Ion Ratio Lower Upper

91 100

106 41.9 21.1 63.4





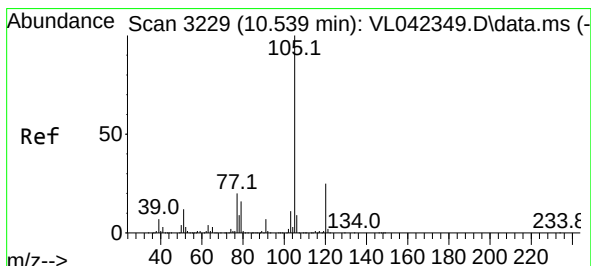
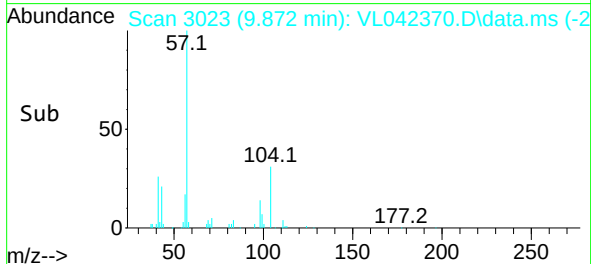
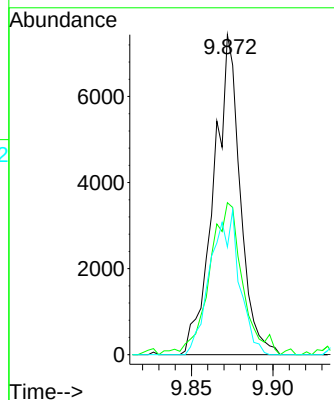
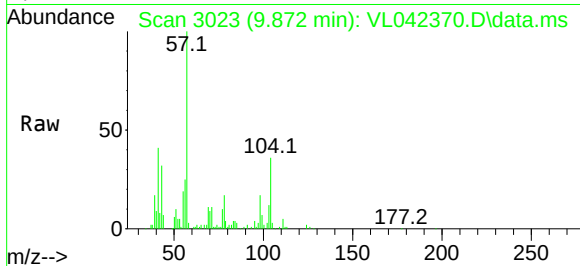
#61
Styrene
Concen: 0.376 ppbv
RT: 9.872 min Scan# 3022
Delta R.T. 0.003 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

Tgt Ion:104 Resp: 839
Ion Ratio Lower Upper
104 100
78 60.3 44.6 66.8
103 49.1 37.4 56.0

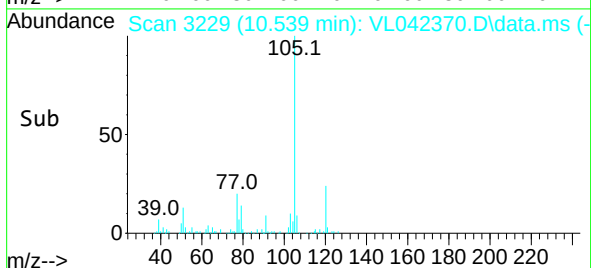
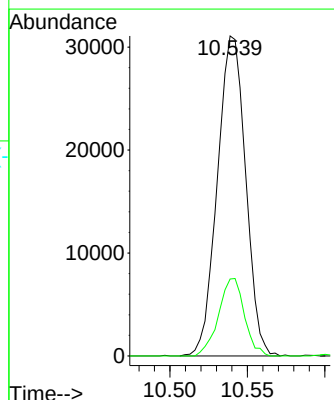
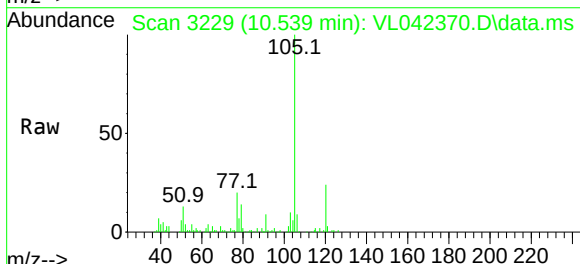
Manual Integrations
APPROVED

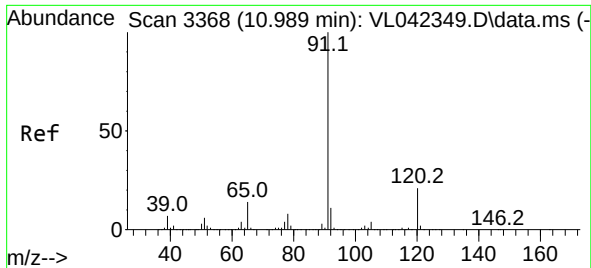
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#62
Isopropylbenzene
Concen: 0.575 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion:105 Resp: 39493
Ion Ratio Lower Upper
105 100
120 22.1 19.8 29.8





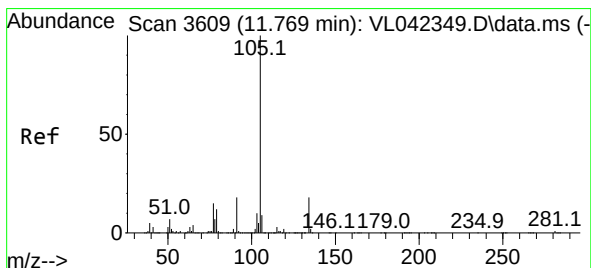
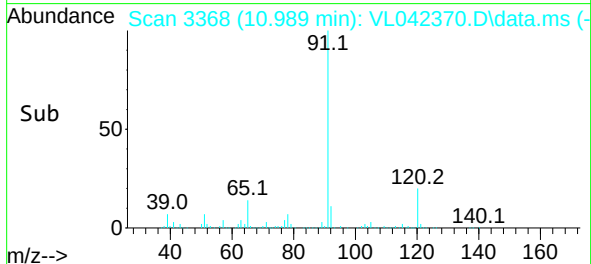
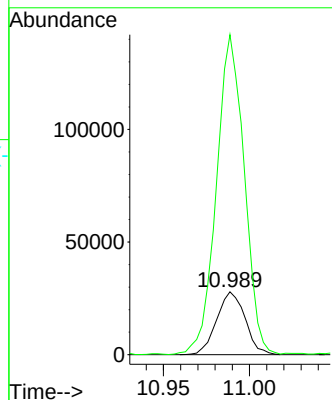
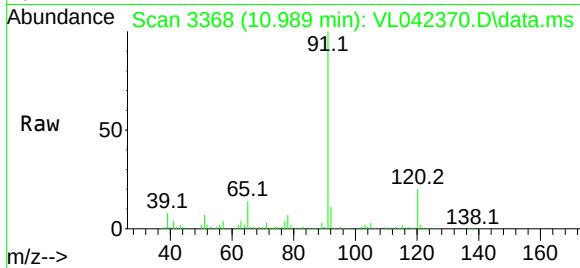
#64
n-propylbenzene
Concen: 1.858 ppbv
RT: 10.989 min Scan# 31
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

Tgt Ion:120 Resp: 3207
Ion Ratio Lower Upper
120 100
91 500.9 392.4 588.6

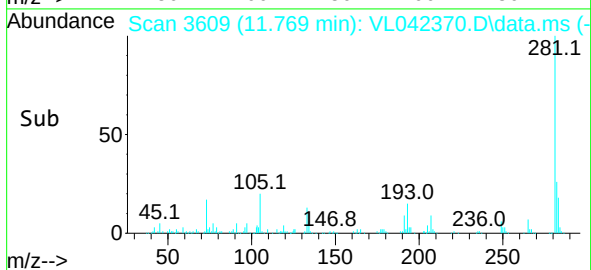
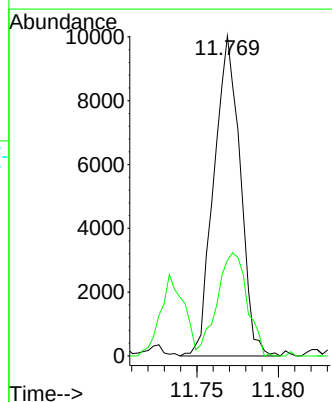
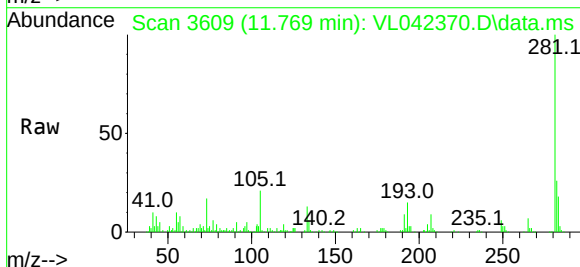
Manual Integrations
APPROVED

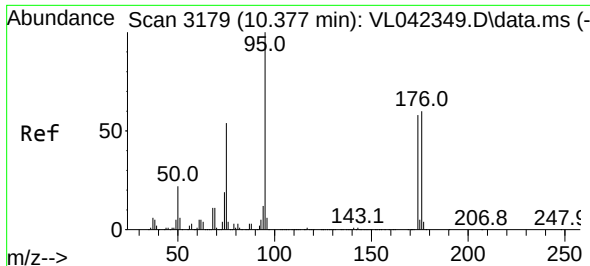
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#67
sec-Butylbenzene
Concen: 0.128 ppbv
RT: 11.769 min Scan# 3609
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

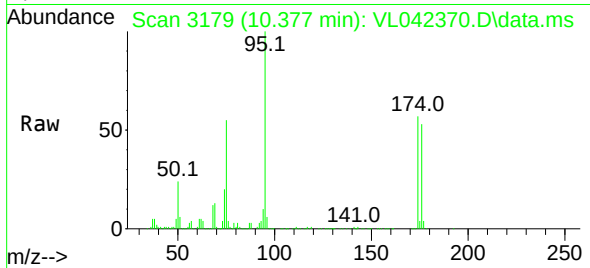
Tgt Ion:105 Resp: 11229
Ion Ratio Lower Upper
105 100
134 35.1 14.6 21.8#





#68
1-Bromo-4-Fluorobenzene
Concen: 9.966 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

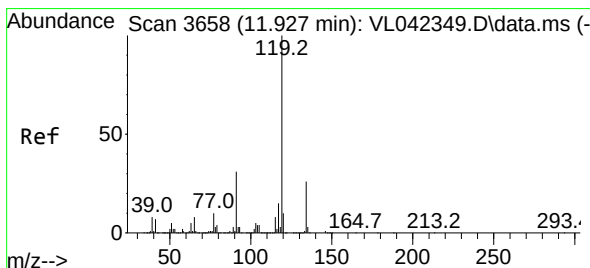
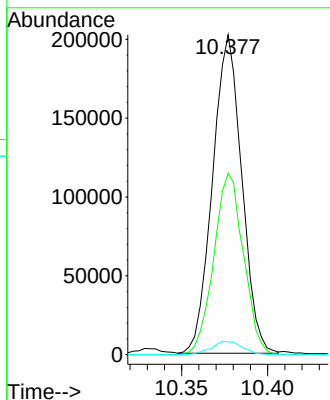
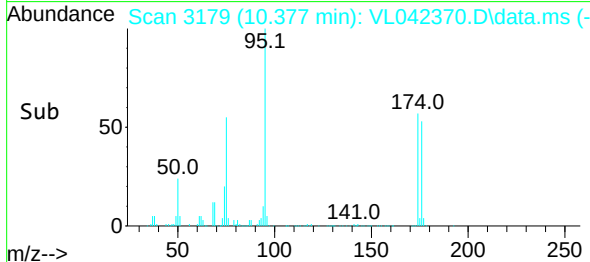
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025



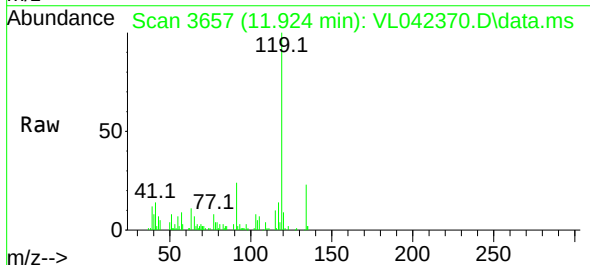
Tgt Ion: 95 Resp: 23832
Ion Ratio Lower Upper
95 100
174 58.0 48.5 72.7
175 4.5 3.7 5.5

Manual Integrations
APPROVED

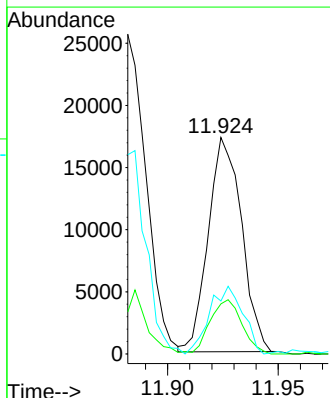
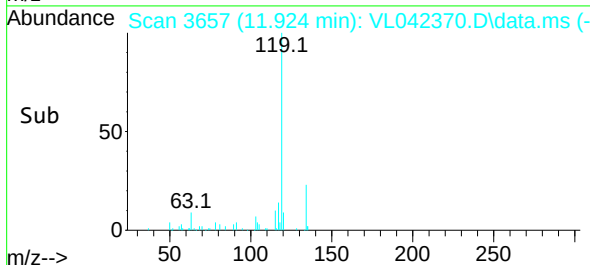
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

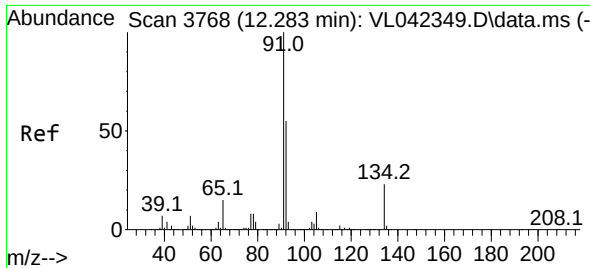


#69
p-Isopropyltoluene
Concen: 0.237 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. -0.003 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19



Tgt Ion:119 Resp: 18095
Ion Ratio Lower Upper
119 100
134 24.6 20.0 30.0
91 31.1 24.4 36.6





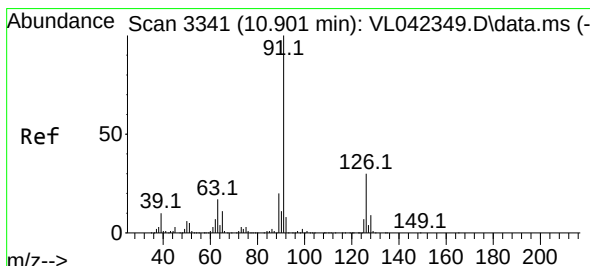
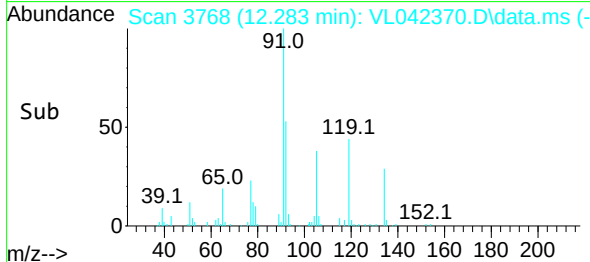
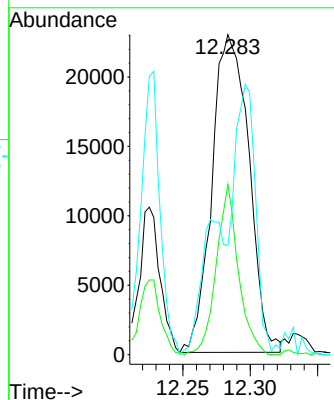
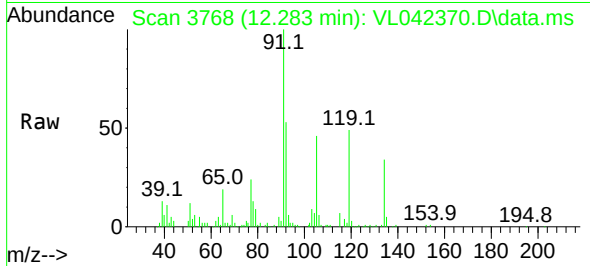
#70
n-Butylbenzene
Concen: 0.548 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

Tgt Ion: 91 Resp: 4352
Ion Ratio Lower Upper
91 100
92 32.2 44.2 66.4
134 81.0 18.2 27.4

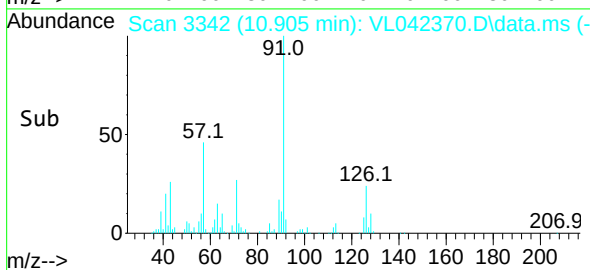
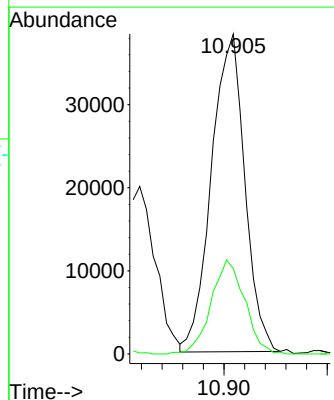
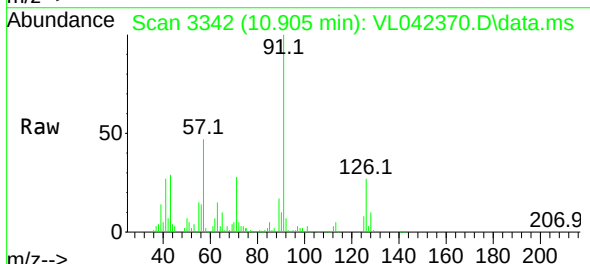
Manual Integrations
APPROVED

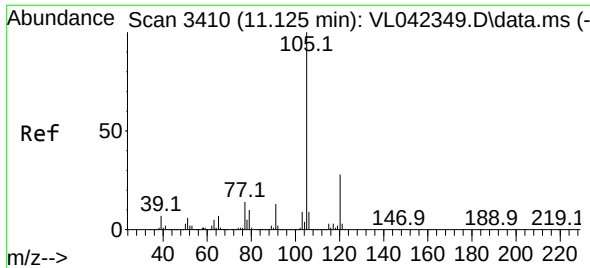
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#71
2-Chlorotoluene
Concen: 0.796 ppbv
RT: 10.905 min Scan# 3342
Delta R.T. 0.003 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

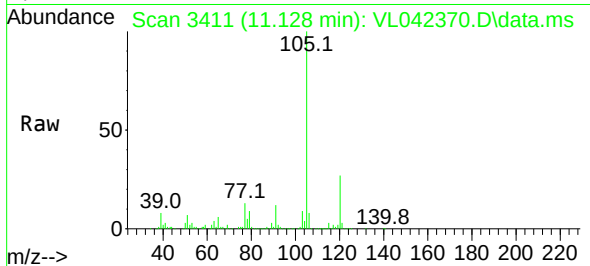
Tgt Ion: 91 Resp: 42867
Ion Ratio Lower Upper
91 100
126 29.9 11.4 45.4





#72
4-Ethyltoluene
Concen: 3.128 ppbv
RT: 11.128 min Scan# 3410
Delta R.T. 0.003 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

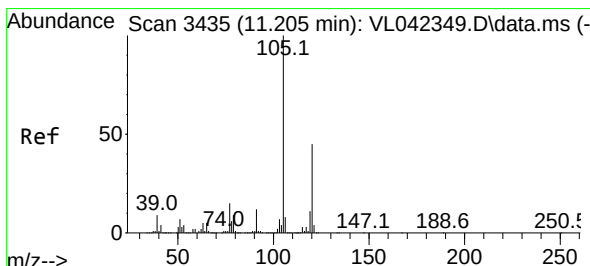
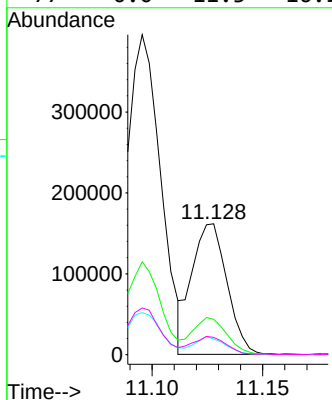
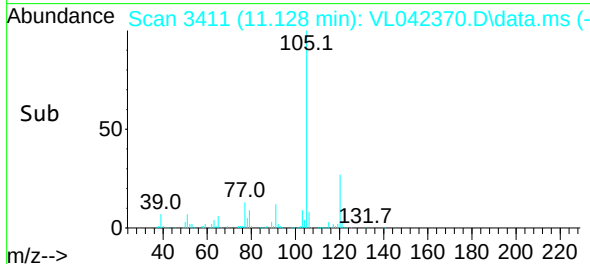
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025



Tgt Ion:105 Resp: 178872
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#

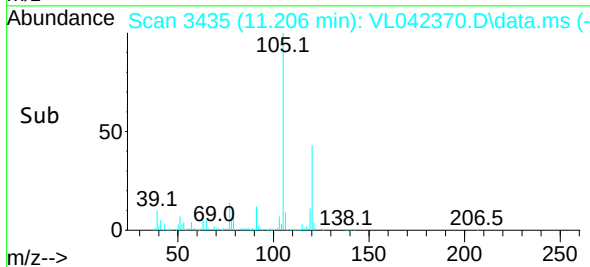
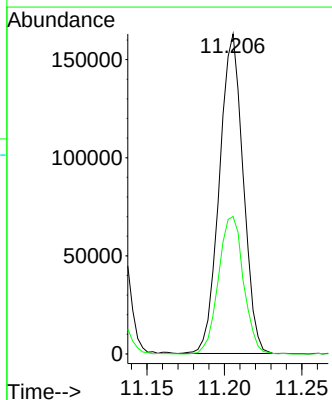
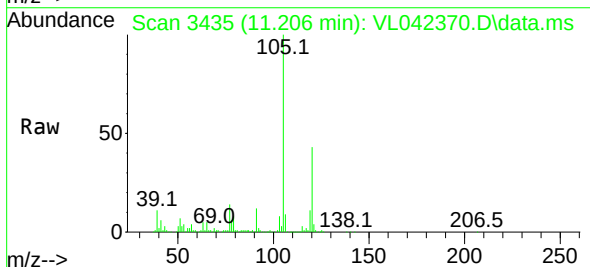
Manual Integrations
APPROVED

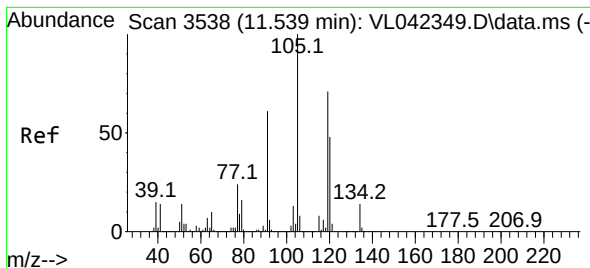
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#73
1,3,5-Trimethylbenzene
Concen: 3.443 ppbv
RT: 11.206 min Scan# 3435
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion:105 Resp: 173796
Ion Ratio Lower Upper
105 100
120 43.0 35.6 53.4





#74

1,2,4-Trimethylbenzene

Concen: 9.336 ppbv

RT: 11.536 min Scan# 3538

Delta R.T. -0.003 min

Lab File: VL042370.D

Acq: 17 Apr 2025 22:19

Instrument :

MSVOA_L

ClientSampleId :

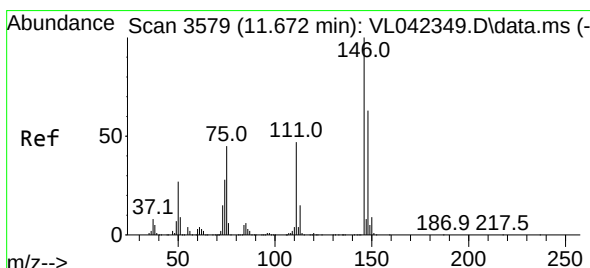
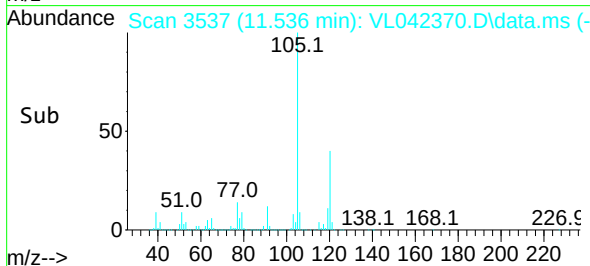
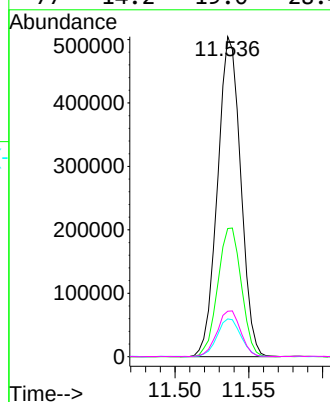
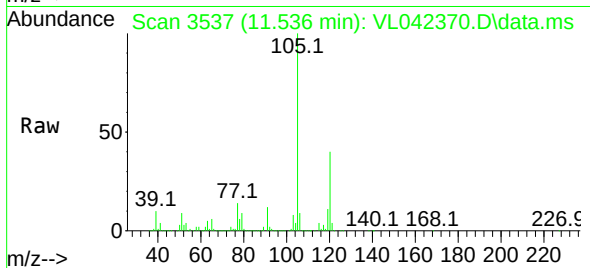
IA-B2-1-03312025

Tgt Ion:	105	Resp:	55045
Ion Ratio	Lower	Upper	
105	100		
120	40.1	38.1	57.1
91	11.7	48.8	73.2
77	14.2	19.0	28.4

Manual Integrations

APPROVED

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



#76

1,4-Dichlorobenzene

Concen: 0.149 ppbv

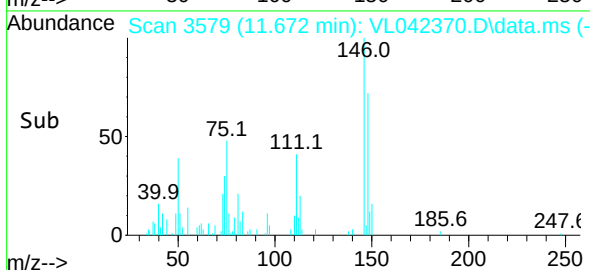
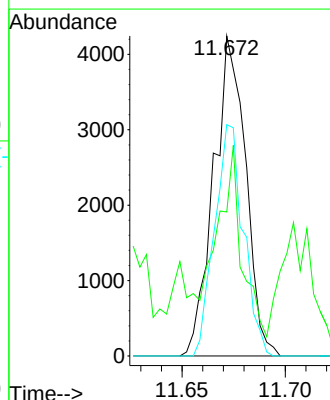
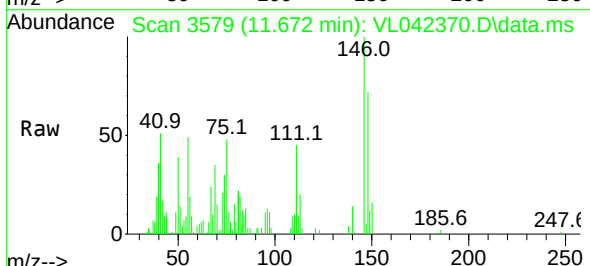
RT: 11.672 min Scan# 3579

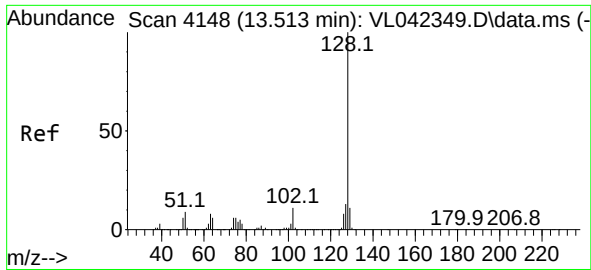
Delta R.T. 0.000 min

Lab File: VL042370.D

Acq: 17 Apr 2025 22:19

Tgt Ion:	146	Resp:	4575
Ion Ratio	Lower	Upper	
146	100		
111	68.4	24.2	72.6
148	65.0	32.1	96.5





#79

Naphthalene

Concen: 0.364 ppbv

RT: 13.513 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL042370.D

Acq: 17 Apr 2025 22:19

Instrument :

MSVOA_L

ClientSampleId :

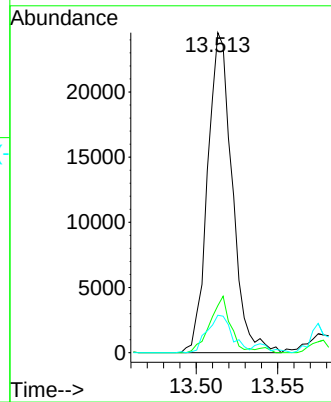
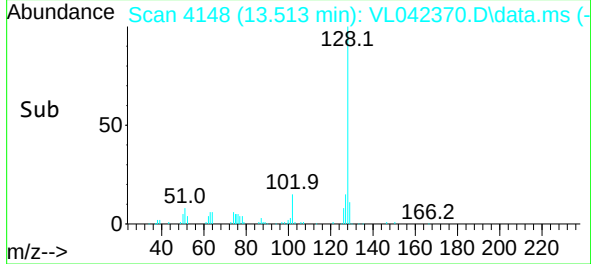
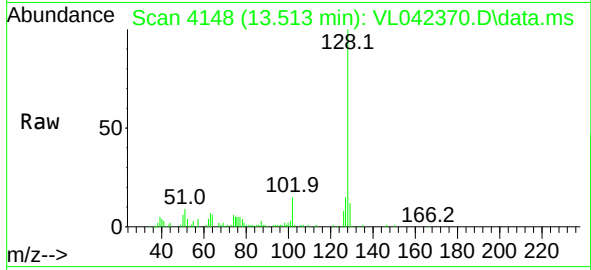
IA-B2-1-03312025

Tgt Ion:	128	Resp:	25684
Ion Ratio	Lower	Upper	
128	100		
127	14.7	10.6	15.8
129	11.7	8.6	12.8

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 : VL042370.D
 Acq On : 17 Apr 2025 22:19
 Operator : SY/MD
 Sample : Q1726-05
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-1-03312025

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: VL042370.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	4190677	4720856	64.16%	9.494%
2	1.466	423	426	429	rVV	371491	180159	2.45%	0.362%
3	1.489	429	433	439	rVV2	388721	204224	2.78%	0.411%
4	1.525	441	444	451	rVV	857865	465934	6.33%	0.937%
5	1.560	451	455	459	rVB	1177392	625455	8.50%	1.258%
6	1.622	470	474	478	rVB	842974	431433	5.86%	0.868%
7	1.722	499	505	510	rBV	1147260	687314	9.34%	1.382%
8	1.835	535	540	549	rBV	8237661	7358302	100.00%	14.798%
9	1.887	549	556	561	rBV	906796	603441	8.20%	1.214%
10	2.059	600	609	614	rBV3	163533	171357	2.33%	0.345%
11	2.272	669	675	683	rVB2	218413	185703	2.52%	0.373%
12	2.473	732	737	743	rVB2	171413	172104	2.34%	0.346%
13	2.625	773	784	792	rBV	130302	140774	1.91%	0.283%
14	2.787	827	834	840	rBV	426130	433131	5.89%	0.871%
15	2.826	840	846	858	rVB2	311046	377598	5.13%	0.759%
16	3.227	962	970	979	rVV2	145128	193708	2.63%	0.390%
17	3.285	979	988	998	rVB3	102708	148986	2.02%	0.300%
18	3.654	1085	1102	1108	rBV4	78978	172423	2.34%	0.347%
19	3.687	1108	1112	1126	rVB	118636	171568	2.33%	0.345%
20	3.855	1151	1164	1180	rBV3	75170	138982	1.89%	0.280%
21	3.959	1182	1196	1208	rVV	563766	895248	12.17%	1.800%
22	4.053	1208	1225	1233	rVV2	287111	549487	7.47%	1.105%
23	4.098	1233	1239	1253	rVB2	128345	214824	2.92%	0.432%
24	4.269	1273	1292	1307	rVB3	316040	616215	8.37%	1.239%
25	4.441	1334	1345	1357	rBV4	61535	122875	1.67%	0.247%
26	4.525	1357	1371	1384	rVV7	66128	187809	2.55%	0.378%
27	4.642	1384	1407	1423	rVB	788812	1835343	24.94%	3.691%
28	4.923	1478	1494	1500	rBV8	39747	92276	1.25%	0.186%
29	4.978	1500	1511	1525	rVB3	252320	523150	7.11%	1.052%
30	5.305	1597	1612	1627	rBV9	43020	117578	1.60%	0.236%
31	5.664	1697	1723	1741	rVB5	173749	507516	6.90%	1.021%
32	5.781	1746	1759	1780	rBV9	31114	93072	1.26%	0.187%
33	6.134	1853	1868	1877	rBV8	42289	107787	1.46%	0.217%
34	6.198	1877	1888	1900	rBV5	102663	272321	3.70%	0.548%
35	6.273	1910	1911	1928	rVB3	119686	152813	2.08%	0.307%
36	6.467	1956	1971	1982	rBV4	38589	91809	1.25%	0.185%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042370.D
 Acq On : 17 Apr 2025 22:19
 Operator : SY/MD
 Sample : Q1726-05
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-1-03312025

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	6.830	2065	2083	2100	rBV4	374758	936403	12.73%	1.883%
38	6.936	2100	2116	2137	rVB2	1817487	4157590	56.50%	8.361%
39	7.189	2174	2194	2208	rBV3	142876	313991	4.27%	0.631%
40	7.377	2235	2252	2262	rBV3	207786	420853	5.72%	0.846%
41	7.600	2309	2321	2338	rBV5	209382	619631	8.42%	1.246%
42	7.684	2338	2347	2365	rVB7	101355	219137	2.98%	0.441%
43	7.894	2400	2412	2431	rBV3	198290	463486	6.30%	0.932%
44	8.131	2476	2485	2504	rVB7	81558	179566	2.44%	0.361%
45	8.228	2504	2515	2524	rVV6	64824	131064	1.78%	0.264%
46	8.302	2524	2538	2554	rVB5	330485	668560	9.09%	1.345%
47	8.882	2702	2717	2727	rBV2	723068	1131473	15.38%	2.275%
48	8.940	2727	2735	2740	rVV4	60638	101429	1.38%	0.204%
49	8.979	2740	2747	2764	rVB7	121466	286058	3.89%	0.575%
50	9.144	2791	2798	2812	rBV	88760	143504	1.95%	0.289%
51	9.354	2853	2863	2876	rBV	625764	921636	12.53%	1.853%
52	9.532	2900	2918	2936	rVB	1562439	2964531	40.29%	5.962%
53	9.730	2966	2979	2991	rVB3	158890	355256	4.83%	0.714%
54	9.862	3005	3020	3034	rBV4	176905	318396	4.33%	0.640%
55	9.963	3037	3051	3061	rBV	860851	1232191	16.75%	2.478%
56	10.099	3088	3093	3100	rVB3	67189	84524	1.15%	0.170%
57	10.354	3161	3172	3173	rBV2	272364	287932	3.91%	0.579%
58	10.377	3173	3179	3189	rVB	906204	1148004	15.60%	2.309%
59	10.539	3220	3229	3236	rBV	90277	121863	1.66%	0.245%
60	10.772	3289	3301	3305	rBV3	53080	87705	1.19%	0.176%
61	10.856	3321	3327	3334	rVB2	203113	241121	3.28%	0.485%
62	10.901	3334	3341	3354	rVB2	182917	233803	3.18%	0.470%
63	10.989	3354	3368	3382	rBV	314093	435429	5.92%	0.876%
64	11.095	3393	3401	3406	rBV	1046955	1163691	15.81%	2.340%
65	11.125	3406	3410	3420	rVB	422431	467230	6.35%	0.940%
66	11.202	3420	3434	3443	rBV	501322	602802	8.19%	1.212%
67	11.312	3462	3468	3471	rBV2	106576	119099	1.62%	0.240%
68	11.338	3471	3476	3483	rVB	339144	375242	5.10%	0.755%
69	11.406	3490	3497	3500	rBV2	83515	101509	1.38%	0.204%
70	11.536	3528	3537	3549	rBV	1461127	1645271	22.36%	3.309%
71	11.756	3599	3605	3607	rBV2	123272	128022	1.74%	0.257%
72	11.775	3607	3611	3621	rVB2	266254	315154	4.28%	0.634%
73	11.879	3637	3643	3652	rVB2	369236	397995	5.41%	0.800%
74	12.018	3676	3686	3690	rBV	246758	277541	3.77%	0.558%
75	12.044	3690	3694	3701	rVV4	221746	235773	3.20%	0.474%
76	12.086	3701	3707	3717	rVB3	64745	84577	1.15%	0.170%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042370.D
Acq On : 17 Apr 2025 22:19
Operator : SY/MD
Sample : Q1726-05
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

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	12.225	3745	3750	3757	rVB2	277625	286370	3.89%	0.576%
78	12.270	3757	3764	3767	rBV	114078	128849	1.75%	0.259%
79	12.296	3767	3772	3778	rVB2	189687	209608	2.85%	0.422%
80	12.403	3795	3805	3811	rBV2	93620	120157	1.63%	0.242%
81	12.507	3831	3837	3840	rBV3	140497	154524	2.10%	0.311%
82	12.588	3855	3862	3872	rBV2	217812	323028	4.39%	0.650%
83	12.798	3921	3927	3933	rVB5	95403	100866	1.37%	0.203%
84	12.953	3969	3975	3984	rVB	83274	84592	1.15%	0.170%
85	13.128	4024	4029	4036	rVB	102020	98375	1.34%	0.198%
86	13.228	4053	4060	4067	rBV4	112617	135293	1.84%	0.272%

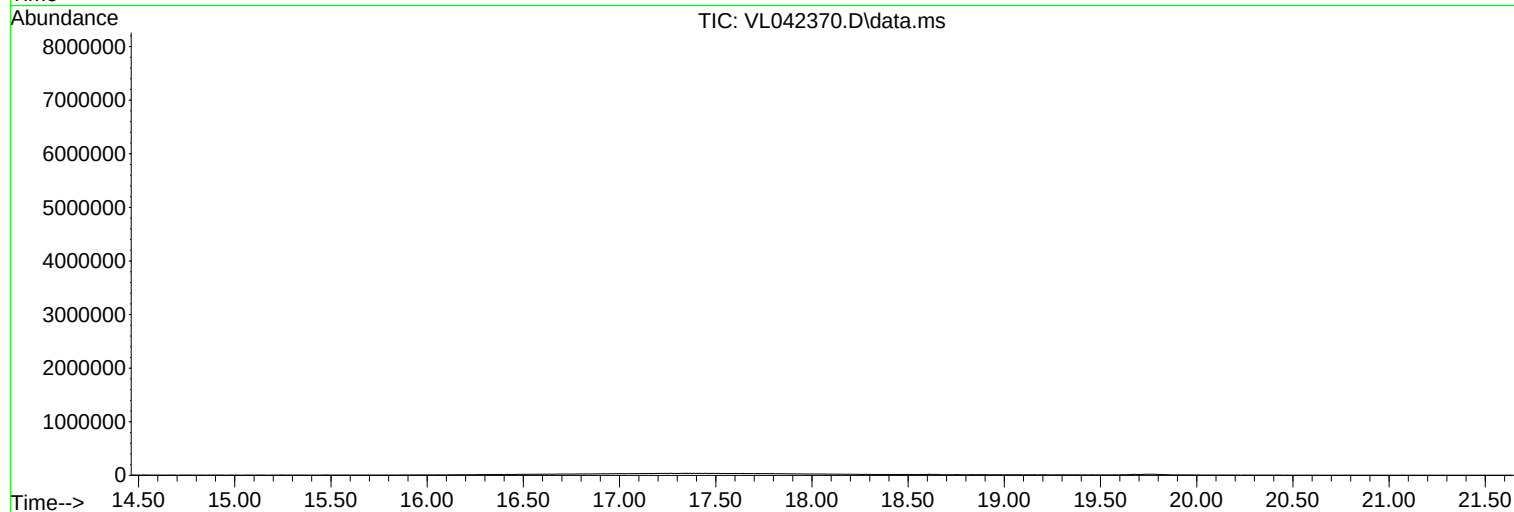
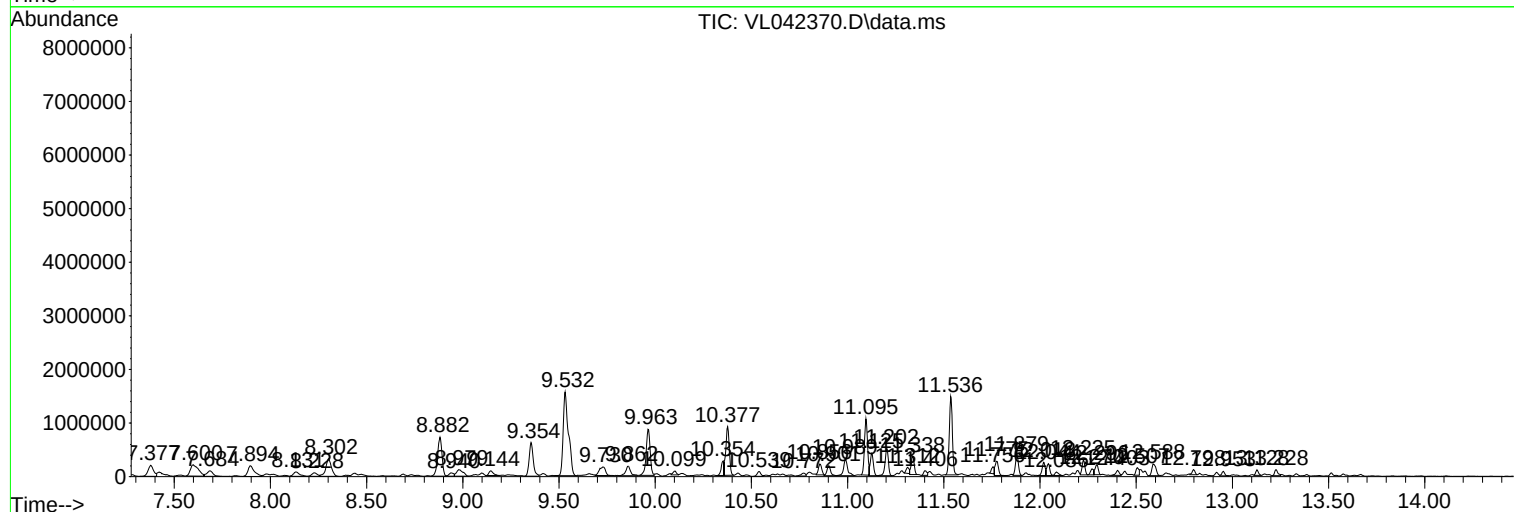
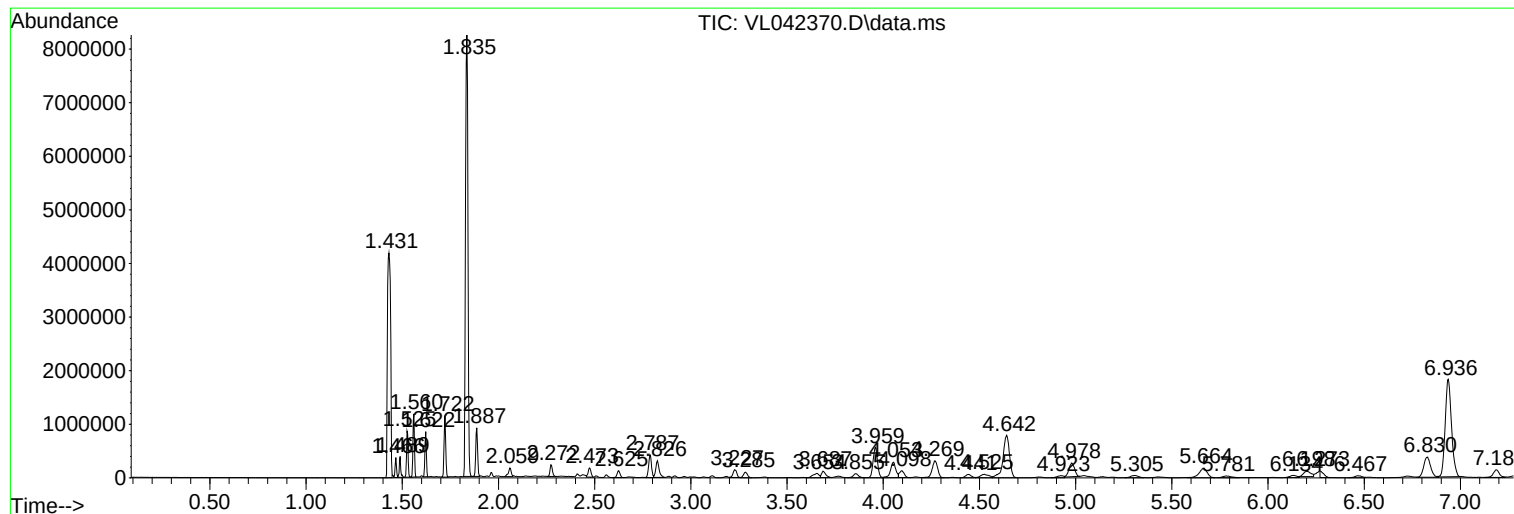
Sum of corrected areas: 49724279

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042370.D
Acq On : 17 Apr 2025 22:19
Operator : SY/MD
Sample : Q1726-05
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

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 : VL042370.D
Acq On : 17 Apr 2025 22:19
Operator : SY/MD
Sample : Q1726-05
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

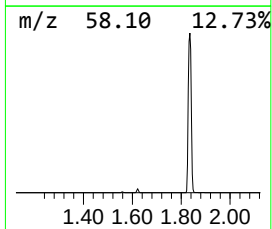
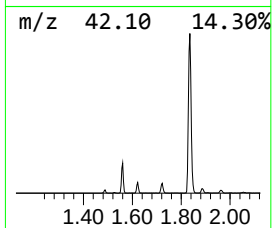
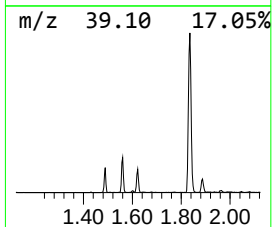
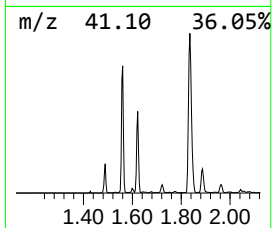
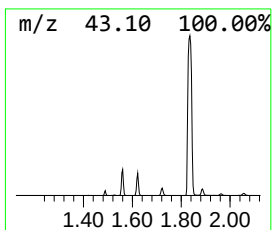
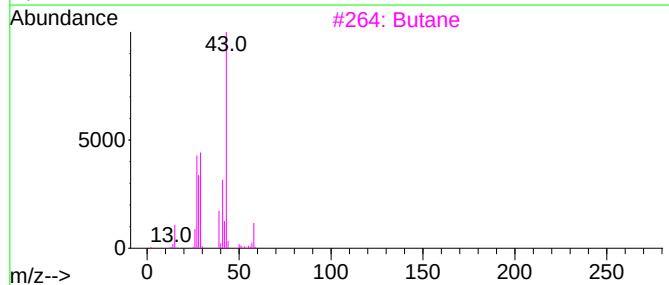
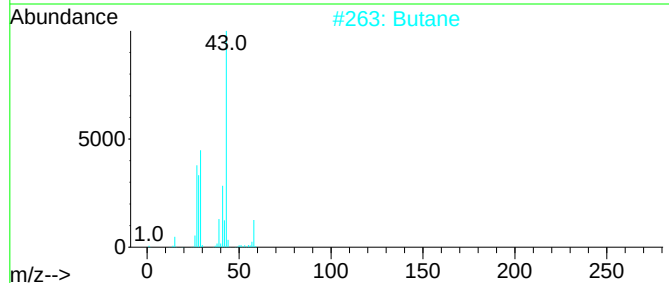
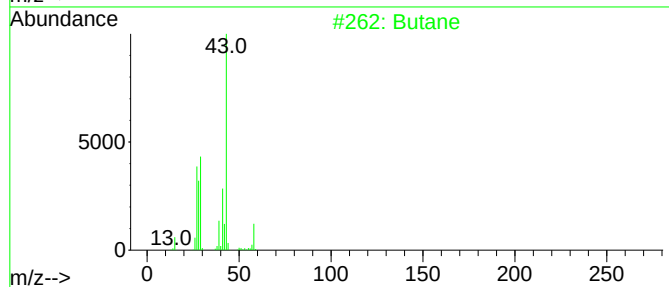
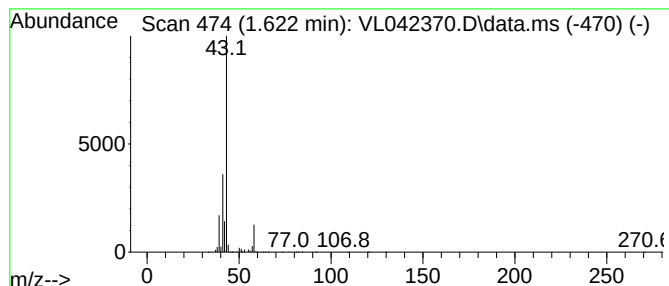
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 1 Butane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.622	9.96 ppbv	431433	Bromochloromethane	2.787

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane			58	C4H10	000106-97-8	72
2	Butane			58	C4H10	000106-97-8	72
3	Butane			58	C4H10	000106-97-8	64
4	Butane			58	C4H10	000106-97-8	64
5	Isobutane			58	C4H10	000075-28-5	9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042370.D
Acq On : 17 Apr 2025 22:19
Operator : SY/MD
Sample : Q1726-05
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

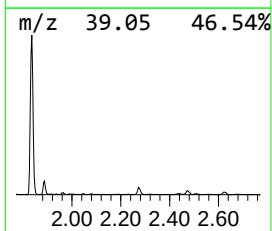
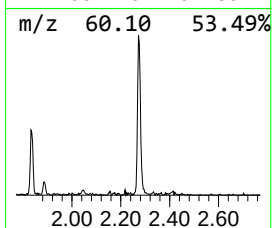
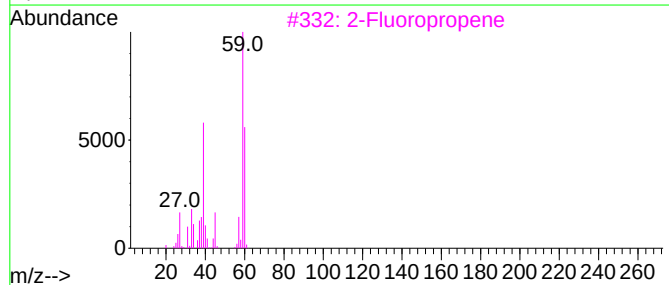
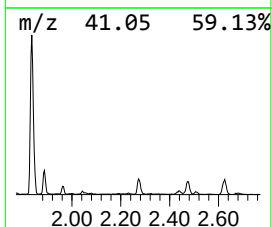
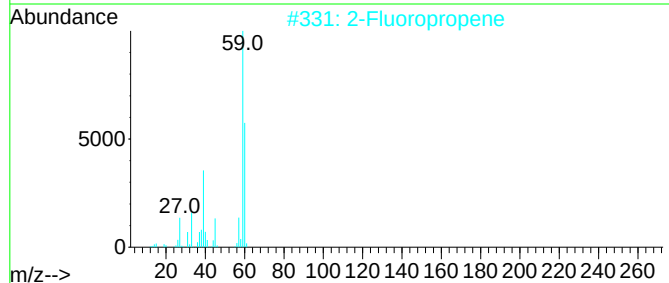
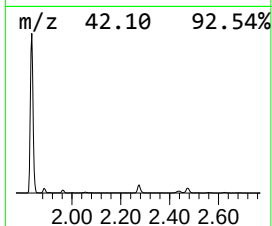
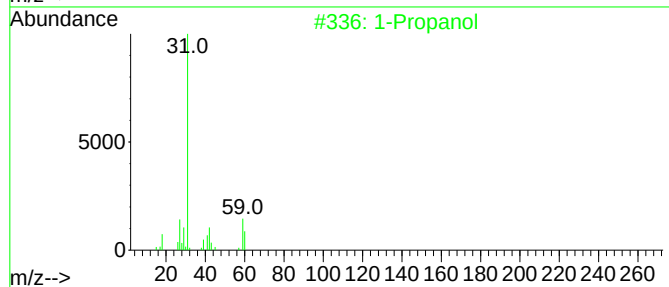
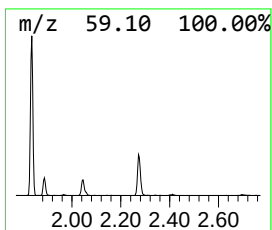
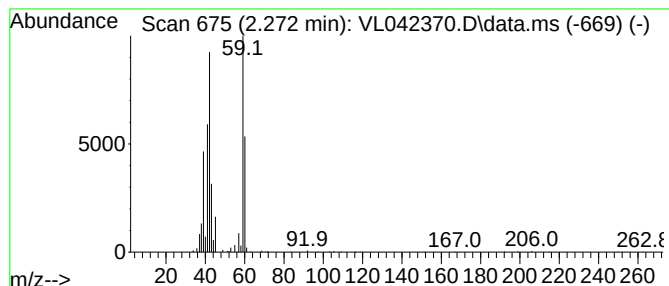
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 2 1-Propanol Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.272	4.29 ppbv	185703	Bromochloromethane	2.787

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Propanol			60	C3H8O	000071-23-8	59
2	2-Fluoropropene			60	C3H5F	001184-60-7	50
3	2-Fluoropropene			60	C3H5F	001184-60-7	50
4	1-Propanol			60	C3H8O	000071-23-8	49
5	1-Propanol			60	C3H8O	000071-23-8	38



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042370.D
Acq On : 17 Apr 2025 22:19
Operator : SY/MD
Sample : Q1726-05
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

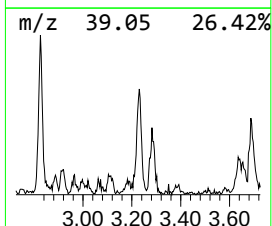
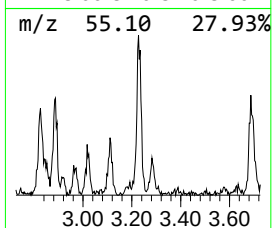
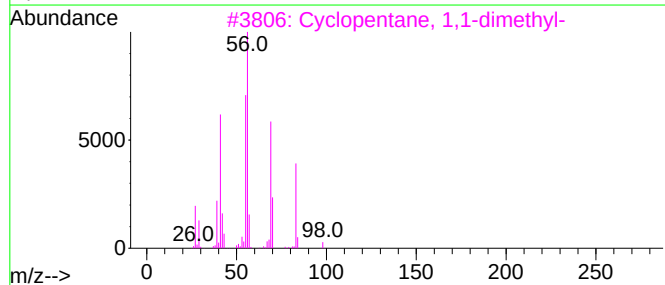
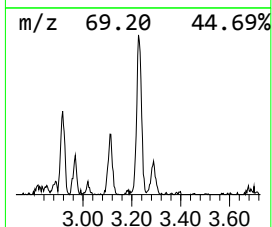
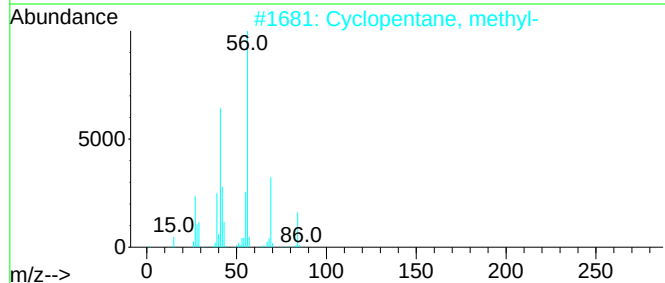
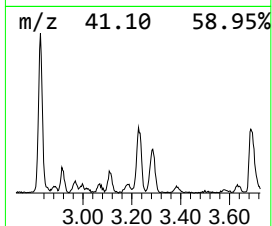
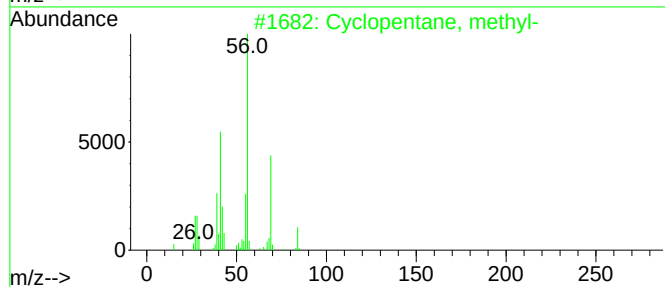
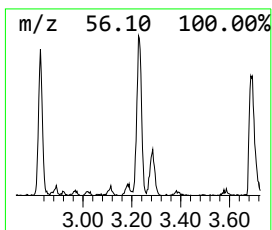
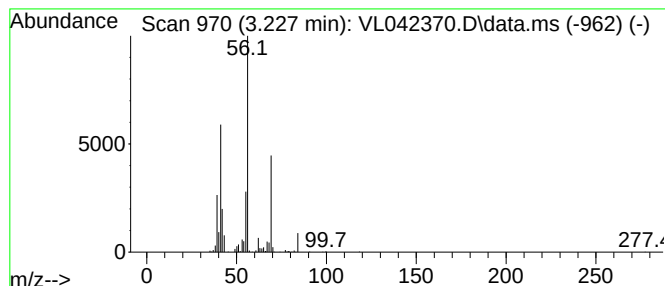
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 3 Cyclopentane, methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.227	4.47 ppbv	193708	Bromochloromethane	2.787

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Cyclopentane, methyl-	84	C6H12	000096-37-7	90
2			Cyclopentane, methyl-	84	C6H12	000096-37-7	80
3			Cyclopentane, 1,1-dimethyl-	98	C7H14	001638-26-2	72
4			Cyclohexane	84	C6H12	000110-82-7	72
5			Cyclohexane	84	C6H12	000110-82-7	72



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042370.D
Acq On : 17 Apr 2025 22:19
Operator : SY/MD
Sample : Q1726-05
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

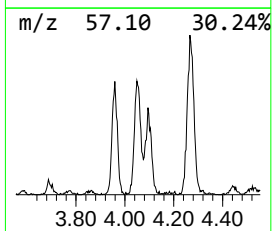
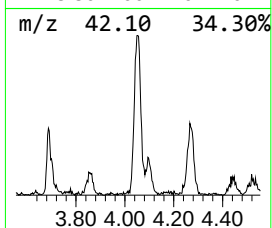
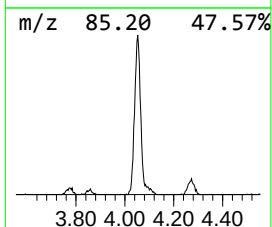
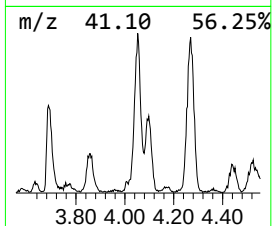
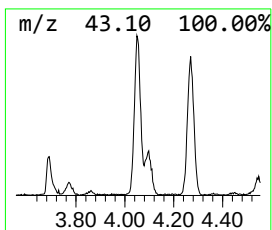
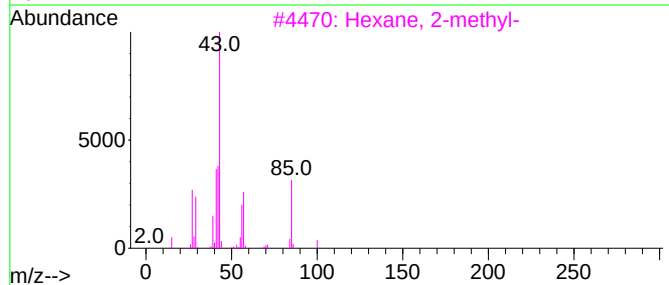
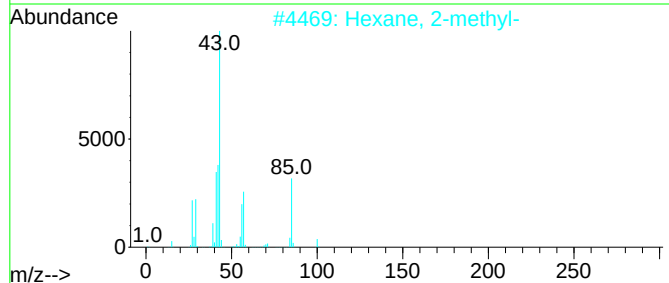
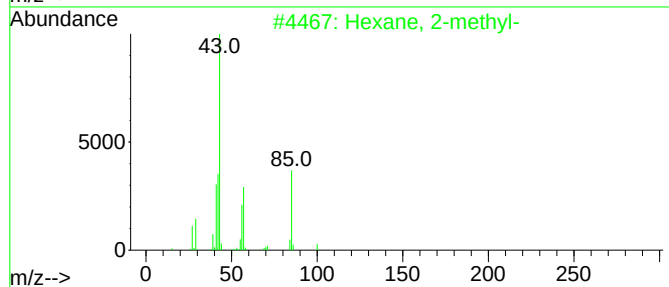
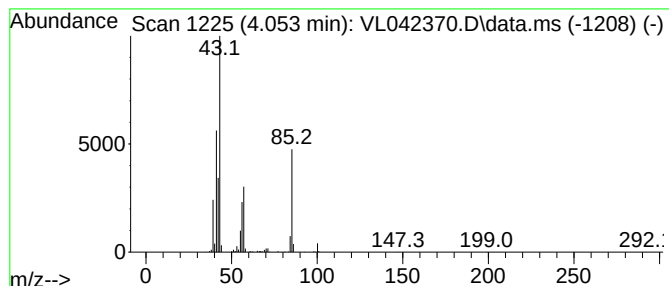
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.053	6.14 ppbv	549487	1,4-Difluorobenzene	3.959

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Hexane, 2-methyl-	100	C7H16	000591-76-4	90
2			Hexane, 2-methyl-	100	C7H16	000591-76-4	76
3			Hexane, 2-methyl-	100	C7H16	000591-76-4	76
4			Oxalic acid, diisohexyl ester	258	C14H26O4	1010309-32-9	50
5			Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	50



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042370.D
Acq On : 17 Apr 2025 22:19
Operator : SY/MD
Sample : Q1726-05
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

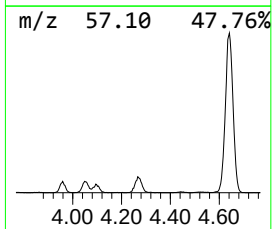
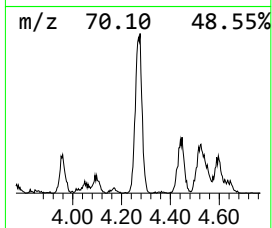
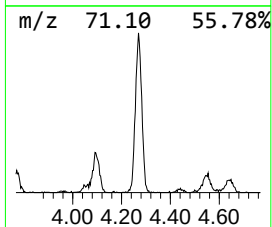
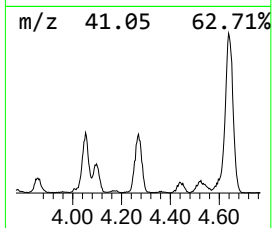
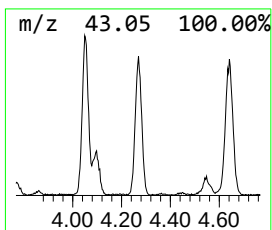
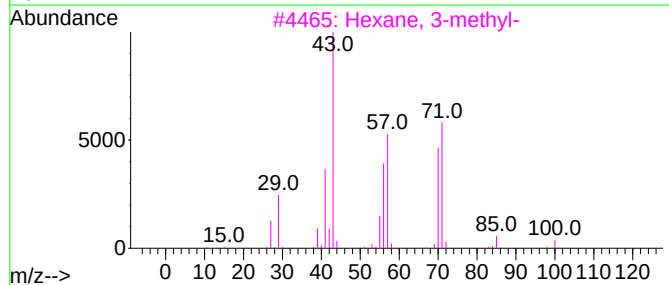
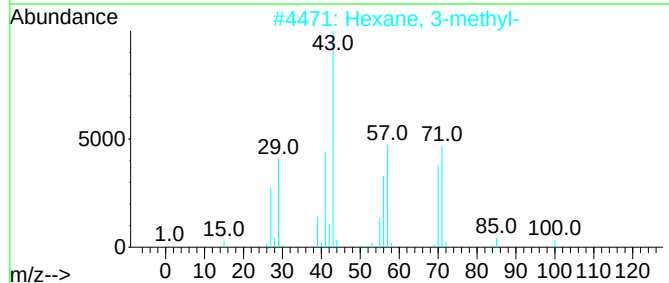
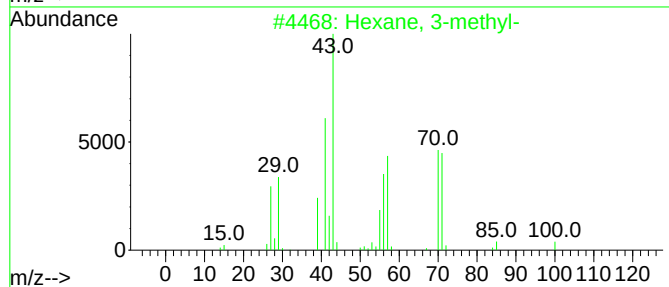
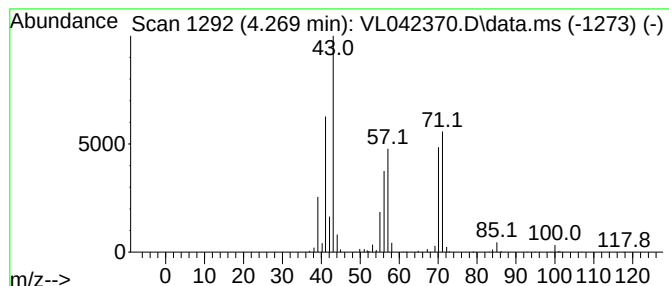
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 5 Hexane, 3-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.269	6.88 ppbv	616215	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	91
4			Heptane, 4-methyl-	114	C8H18	000589-53-7	72
5			Pentane, 3-ethyl-	100	C7H16	000617-78-7	72



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042370.D
Acq On : 17 Apr 2025 22:19
Operator : SY/MD
Sample : Q1726-05
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

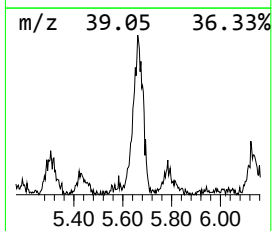
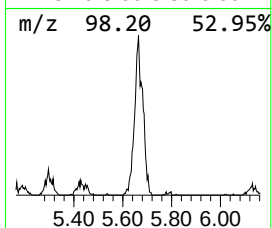
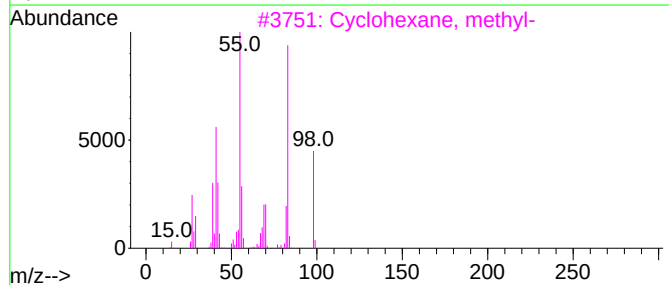
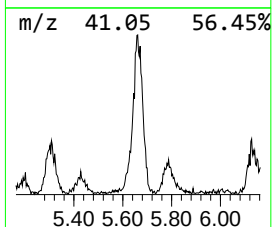
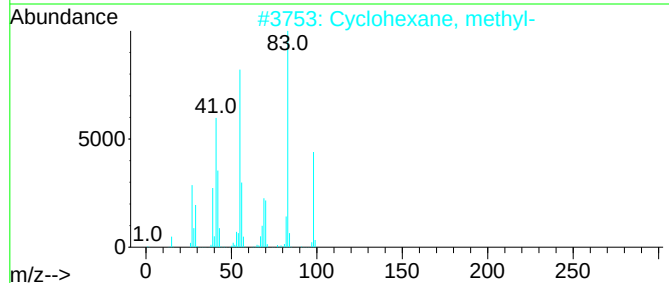
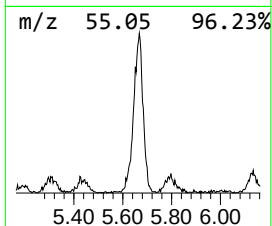
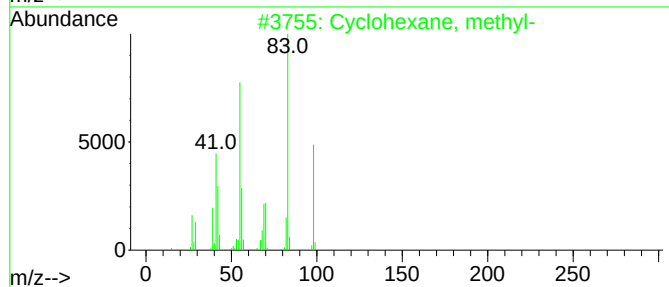
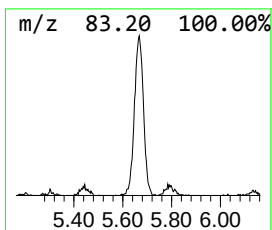
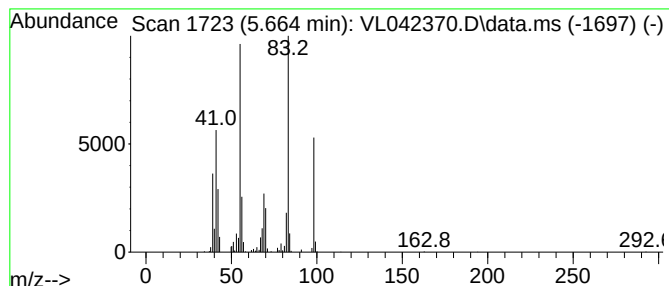
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 6 Cyclohexane, methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.664	5.67 ppbv	507516	1,4-Difluorobenzene	3.959

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Cyclohexane, methyl-	98	C7H14	000108-87-2	97
2			Cyclohexane, methyl-	98	C7H14	000108-87-2	95
3			Cyclohexane, methyl-	98	C7H14	000108-87-2	95
4			Cyclohexane, methyl-	98	C7H14	000108-87-2	86
5			Cyclohexane, methyl-	98	C7H14	000108-87-2	72



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042370.D
Acq On : 17 Apr 2025 22:19
Operator : SY/MD
Sample : Q1726-05
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

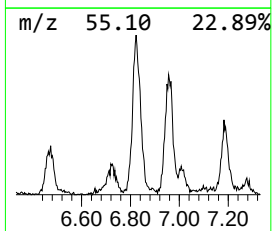
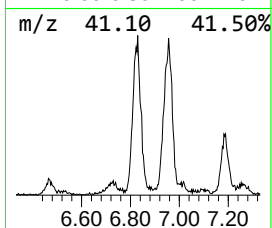
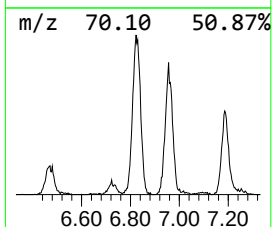
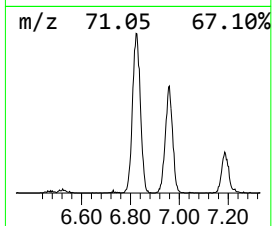
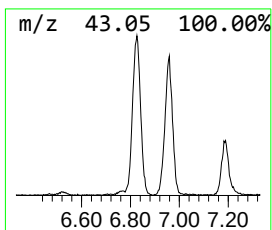
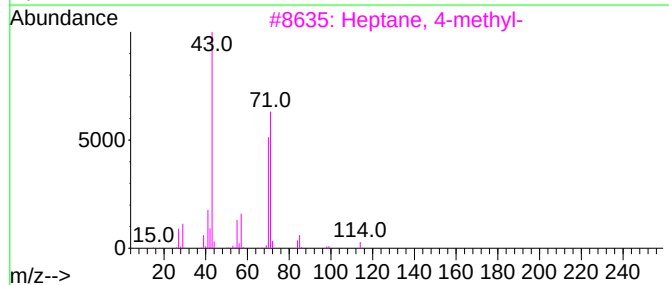
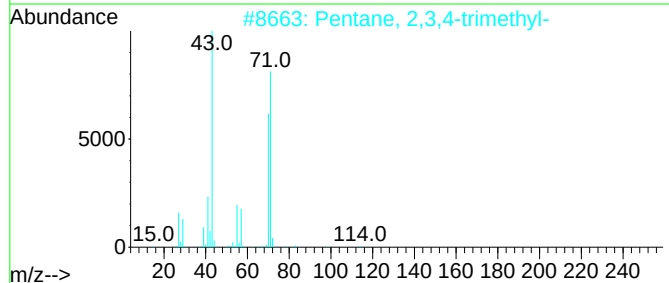
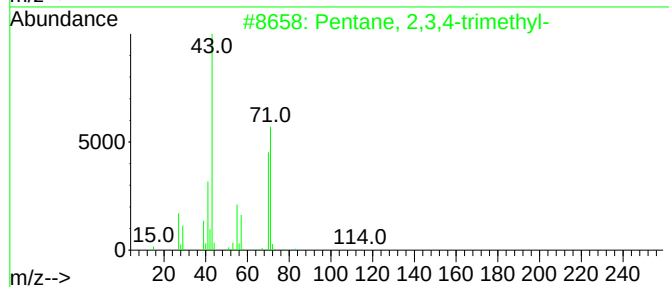
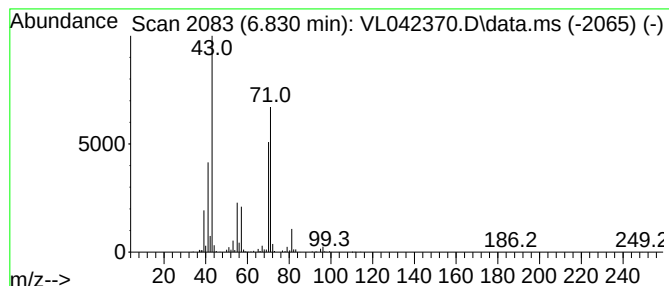
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 7 Pentane, 2,3,4-trimethyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.830	8.28 ppbv	936403	Chlorobenzene-d5	8.882

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	80
2		Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	72
3		Heptane, 4-methyl-	114	C8H18	000589-53-7	72
4		Heptane, 4-methyl-	114	C8H18	000589-53-7	72
5		Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	72



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042370.D
Acq On : 17 Apr 2025 22:19
Operator : SY/MD
Sample : Q1726-05
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

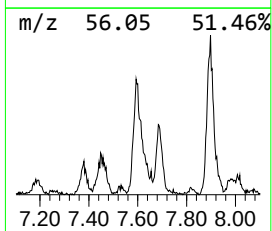
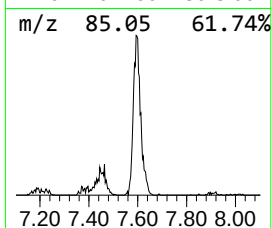
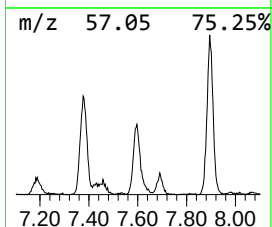
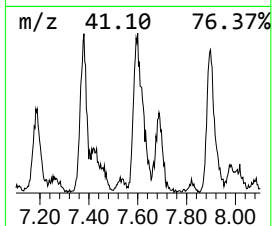
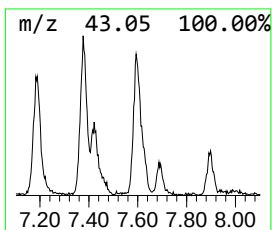
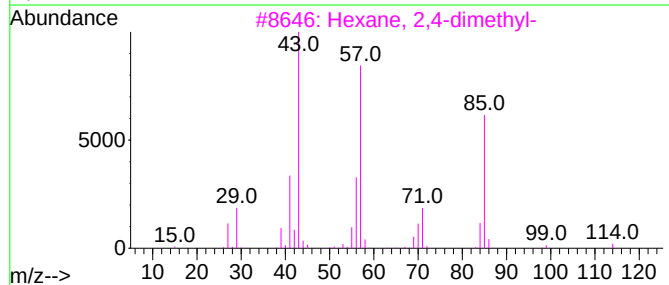
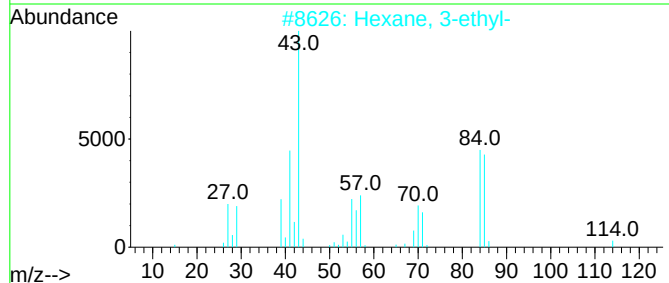
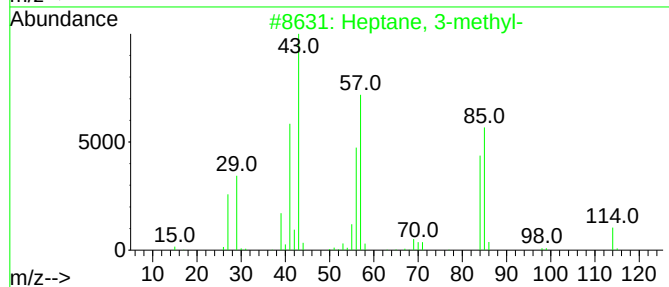
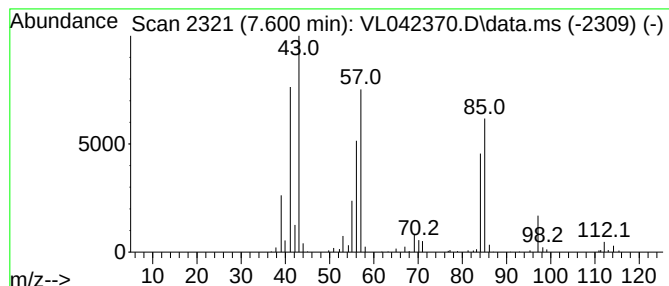
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 8 Heptane, 3-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.600	5.48 ppbv	619631	Chlorobenzene-d5	8.882

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		Heptane, 3-methyl-	114	C8H18	000589-81-1	90
2		Hexane, 3-ethyl-	114	C8H18	000619-99-8	58
3		Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	52
4		Heptane, 3-methyl-	114	C8H18	000589-81-1	52
5		Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	49



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042370.D
Acq On : 17 Apr 2025 22:19
Operator : SY/MD
Sample : Q1726-05
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

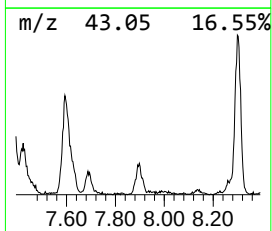
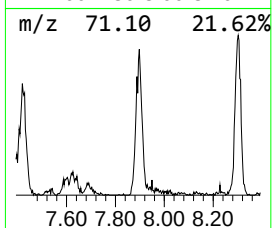
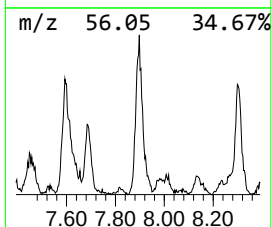
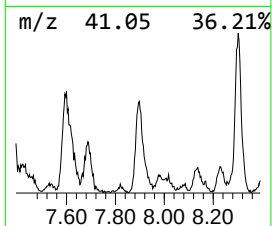
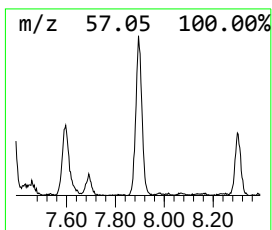
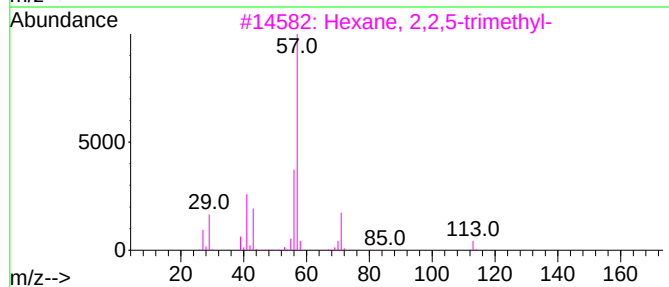
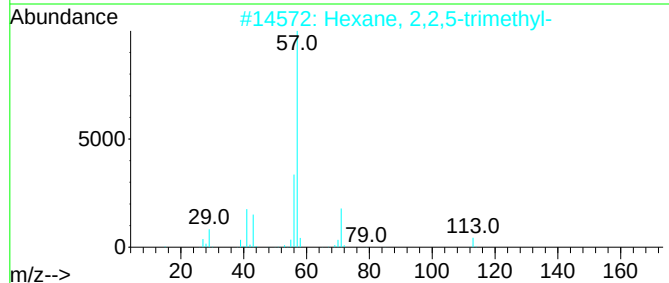
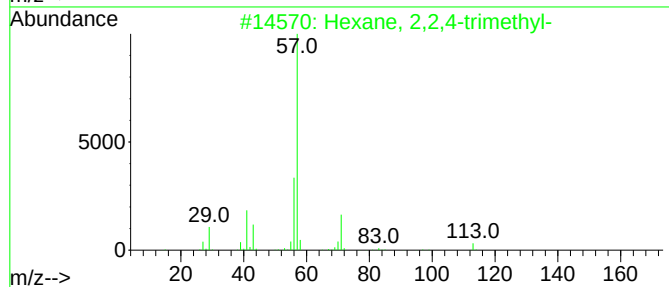
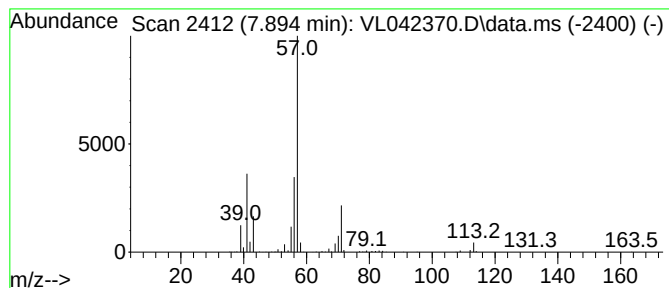
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 9 Hexane, 2,2,4-trimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD			R.T.
7.894	4.10 ppbv	463486	Chlorobenzene-d5			8.882

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexane, 2,2,4-trimethyl-		128	C9H20	016747-26-5	72
2	Hexane, 2,2,5-trimethyl-		128	C9H20	003522-94-9	64
3	Hexane, 2,2,5-trimethyl-		128	C9H20	003522-94-9	64
4	Hexane, 2,2,5-trimethyl-		128	C9H20	003522-94-9	64
5	Heptane, 2,2-dimethyl-		128	C9H20	001071-26-7	59



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042370.D
Acq On : 17 Apr 2025 22:19
Operator : SY/MD
Sample : Q1726-05
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

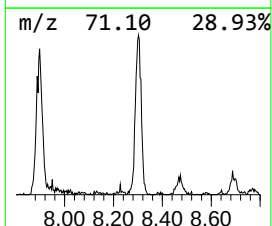
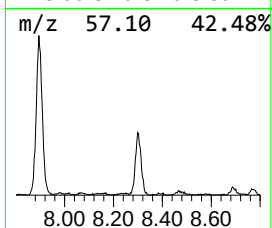
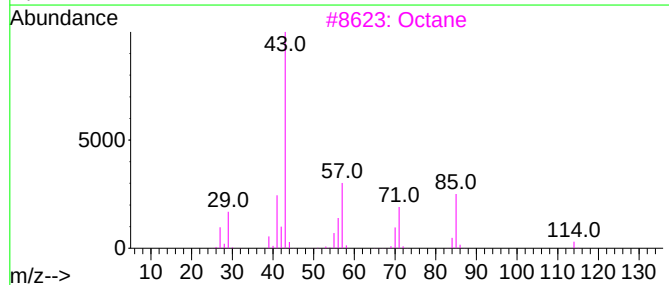
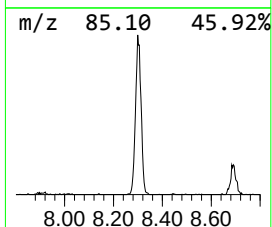
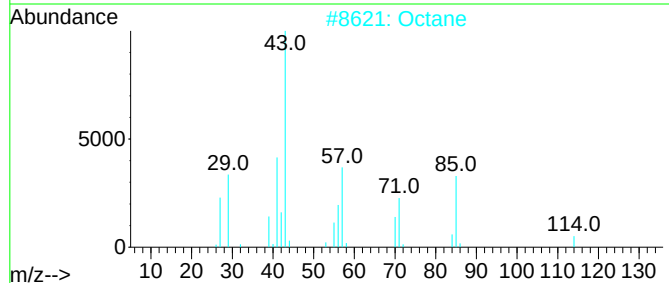
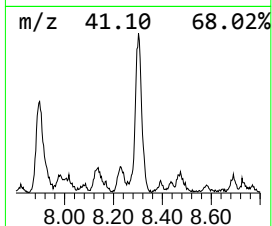
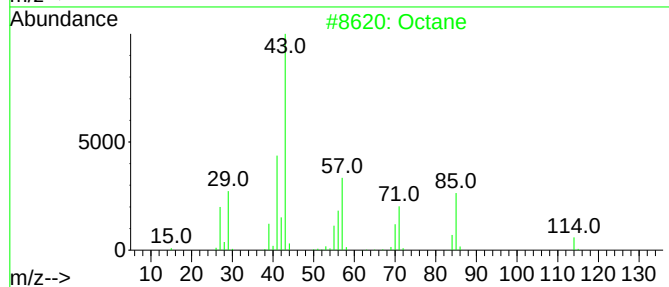
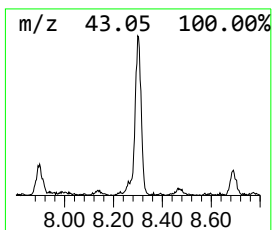
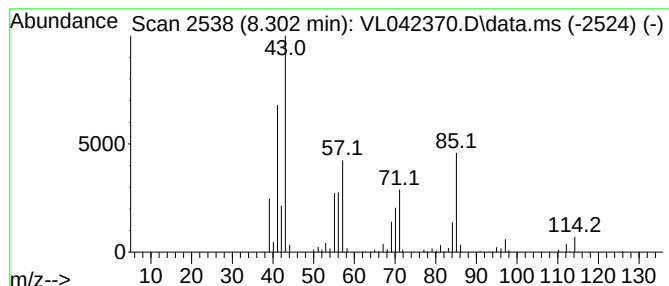
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 10 Octane Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.302	5.91 ppbv	668560	Chlorobenzene-d5	8.882

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane		114	C8H18	000111-65-9	87
2	Octane		114	C8H18	000111-65-9	83
3	Octane		114	C8H18	000111-65-9	80
4	Octane		114	C8H18	000111-65-9	80
5	Heptane, 2,4-dimethyl-		128	C9H20	002213-23-2	53



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042370.D
Acq On : 17 Apr 2025 22:19
Operator : SY/MD
Sample : Q1726-05
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

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
Butane	1.622	10.0	ppbv	431433	1	2.787	433131	10.0
1-Propanol	2.272	4.3	ppbv	185703	1	2.787	433131	10.0
Cyclopentane, m...	3.227	4.5	ppbv	193708	1	2.787	433131	10.0
Hexane, 2-methyl-	4.053	6.1	ppbv	549487	2	3.959	895248	10.0
Hexane, 3-methyl-	4.269	6.9	ppbv	616215	2	3.959	895248	10.0
Cyclohexane, me...	5.664	5.7	ppbv	507516	2	3.959	895248	10.0
Pentane, 2,3,4-...	6.830	8.3	ppbv	936403	3	8.882	1131470	10.0
Heptane, 3-methyl-	7.600	5.5	ppbv	619631	3	8.882	1131470	10.0
Hexane, 2,2,4-t...	7.894	4.1	ppbv	463486	3	8.882	1131470	10.0
Octane	8.302	5.9	ppbv	668560	3	8.882	1131470	10.0

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-1-03312025DL	SDG No.:	Q1726
Lab Sample ID:	Q1726-05DL	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
VL042380.D	20		04/18/25 03:34	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	4.20	20.8	UD	20.8	49.5	ug/m3
64-17-5	Ethanol	360	678	EDQ	12.1	18.8	ug/m3
74-87-3	Chloromethane	2.00	4.13	UD	4.13	20.6	ug/m3
75-01-4	Vinyl Chloride	0.28	0.72	UD	0.72	1.53	ug/m3
74-83-9	Bromomethane	2.80	10.9	UD	10.9	38.8	ug/m3
75-00-3	Chloroethane	3.40	8.97	UD	8.97	26.4	ug/m3
109-99-9	Tetrahydrofuran	2.60	7.67	UD	7.67	29.5	ug/m3
75-69-4	Trichlorofluoromethane	3.20	18.0	UD	18.0	56.2	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	3.20	24.5	UD	24.5	76.7	ug/m3
76-14-2	Dichlorotetrafluoroethane	1.80	12.6	UD	12.6	69.9	ug/m3
593-60-2	Bromoethene	2.40	10.5	UD	10.5	43.7	ug/m3
75-65-0	tert-Butyl alcohol	3.80	11.5	UD	11.5	30.3	ug/m3
142-82-5	Heptane	5.60	22.9	JD	9.02	41.0	ug/m3
67-63-0	Isopropyl Alcohol	47.1	116	D	3.44	24.6	ug/m3
75-35-4	1,1-Dichloroethene	2.80	11.1	UD	11.1	39.6	ug/m3
67-64-1	Acetone	760	1810	ED	11.4	23.8	ug/m3
75-15-0	Carbon Disulfide	3.20	9.97	UD	9.97	31.1	ug/m3
1634-04-4	Methyl tert-Butyl Ether	2.40	8.65	UD	8.65	36.0	ug/m3
75-09-2	Methylene Chloride	3.80	13.2	UD	13.2	34.7	ug/m3
156-60-5	trans-1,2-Dichloroethene	3.80	15.1	UD	15.1	39.6	ug/m3
75-34-3	1,1-Dichloroethane	2.60	10.5	UD	10.5	40.5	ug/m3
110-82-7	Cyclohexane	4.40	15.2	UD	15.2	34.4	ug/m3
78-93-3	2-Butanone	2.40	7.08	UD	7.08	29.5	ug/m3
56-23-5	Carbon Tetrachloride	0.22	1.38	UD	1.38	3.77	ug/m3
156-59-2	cis-1,2-Dichloroethene	1.80	7.14	UD	7.14	39.6	ug/m3
67-66-3	Chloroform	1.70	8.30	UD	8.30	48.8	ug/m3
71-55-6	1,1,1-Trichloroethane	0.19	1.04	UD	1.04	3.27	ug/m3
540-84-1	2,2,4-Trimethylpentane	12.5	58.4	D	9.34	46.7	ug/m3
71-43-2	Benzene	1.70	5.43	UD	5.43	31.9	ug/m3
107-06-2	1,2-Dichloroethane	1.80	7.29	UD	7.29	40.5	ug/m3
79-01-6	Trichloroethene	0.34	1.83	UD	1.83	3.22	ug/m3
78-87-5	1,2-Dichloropropane	2.20	10.2	UD	10.2	46.2	ug/m3
75-27-4	Bromodichloromethane	1.50	10.1	UD	10.1	67.0	ug/m3
108-10-1	4-Methyl-2-Pentanone	1.90	7.79	UD	7.79	41.0	ug/m3
108-88-3	Toluene	34.9	132	D	8.29	37.7	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-1-03312025DL	SDG No.:	Q1726
Lab Sample ID:	Q1726-05DL	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
VL042380.D	20		04/18/25 03:34	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	1.20	5.45	UD	5.45	45.4	ug/m3
10061-01-5	cis-1,3-Dichloropropene	1.30	5.90	UD	5.90	45.4	ug/m3
79-00-5	1,1,2-Trichloroethane	1.40	7.64	UD	7.64	54.6	ug/m3
124-48-1	Dibromochloromethane	1.30	11.1	UD	11.1	85.2	ug/m3
106-93-4	1,2-Dibromoethane	1.40	10.8	UD	10.8	15.4	ug/m3
127-18-4	Tetrachloroethene	0.30	2.03	UD	2.03	4.07	ug/m3
108-90-7	Chlorobenzene	1.50	6.91	UD	6.91	46.0	ug/m3
100-41-4	Ethyl Benzene	6.70	29.1	JD	10.4	43.4	ug/m3
179601-23-1	m/p-Xylene	23.9	104	D	18.2	86.9	ug/m3
95-47-6	o-Xylene	9.10	39.5	JD	10.4	43.4	ug/m3
100-42-5	Styrene	2.20	9.37	UD	9.37	42.6	ug/m3
75-25-2	Bromoform	1.10	11.4	UD	11.4	103	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.22	1.51	UD	1.51	4.12	ug/m3
95-49-8	2-Chlorotoluene	2.20	11.4	UD	11.4	51.8	ug/m3
108-67-8	1,3,5-Trimethylbenzene	4.00	19.7	JD	10.8	49.2	ug/m3
95-63-6	1,2,4-Trimethylbenzene	9.90	48.7	JD	7.87	49.2	ug/m3
541-73-1	1,3-Dichlorobenzene	1.60	9.62	UD	9.62	60.1	ug/m3
106-46-7	1,4-Dichlorobenzene	1.10	6.61	UD	6.61	60.1	ug/m3
95-50-1	1,2-Dichlorobenzene	1.50	9.02	UD	9.02	60.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	1.70	12.6	UD	12.6	74.2	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	1.70	18.1	UD	18.1	107	ug/m3
106-99-0	1,3-Butadiene	2.60	5.75	UD	5.75	22.1	ug/m3
91-20-3	Naphthalene	1.50	7.86	UD	7.86	10.5	ug/m3
622-96-8	4-Ethyltoluene	3.40	16.7	JD	11.8	49.2	ug/m3
110-54-3	Hexane	2.20	7.75	UD	7.75	35.2	ug/m3
107-05-1	Allyl Chloride	3.00	9.39	UD	9.39	31.3	ug/m3
123-91-1	1,4-Dioxane	4.20	15.1	UD	15.1	36.0	ug/m3
80-62-6	Methyl Methacrylate	1.70	6.96	UD	6.96	41.0	ug/m3

SURROGATES

460-00-4	1-Bromo-4-Fluorobenzene	10.4		70 (65) - 130 (135)	104%	SPK: 10
----------	-------------------------	------	--	---------------------	------	---------

INTERNAL STANDARDS

74-97-5	Bromochloromethane	90000	2.787
540-36-3	1,4-Difluorobenzene	253000	3.955
3114-55-4	Chlorobenzene-d5	219000	8.878

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-1-03312025DL	SDG No.:	Q1726
Lab Sample ID:	Q1726-05DL	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
VL042380.D	20		04/18/25 03:34	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 : VL042380.D
 Acq On : 18 Apr 2025 03:34
 Operator : SY/MD
 Sample : Q1726-05DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-1-03312025DL

Manual Integrations
 APPROVED

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

Quant Time: Apr 18 04:41:49 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	90034	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	252514	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	219443	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	187830	10.416	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.200%
Target Compounds						
					Qvalue	
9) Propene	1.486	41	1466m	0.213	ppbv	
10) Heptane	4.978	43	5390m	0.278	ppbv	
13) Ethanol	1.722	45	19984	18.226	ppbv	76
15) Acetone	1.835	43	563713	38.247	ppbv	98
19) Isopropyl Alcohol	1.887	45	19270	2.354	ppbv #	1
44) 2,2,4-Trimethylpentane	4.635	57	29451	0.626	ppbv #	90
53) Toluene	6.927	91	57048	1.745	ppbv	97
58) Ethyl Benzene	9.351	91	14493	0.333	ppbv	92
59) m/p-Xylene	9.529	91	41899	1.196	ppbv	98
60) o-Xylene	9.959	91	16128	0.457	ppbv	99
72) 4-Ethyltoluene	11.125	105	7252	0.168	ppbv #	63
73) 1,3,5-Trimethylbenzene	11.202	105	7522	0.198	ppbv	98
74) 1,2,4-Trimethylbenzene	11.532	105	21924	0.493	ppbv #	63

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

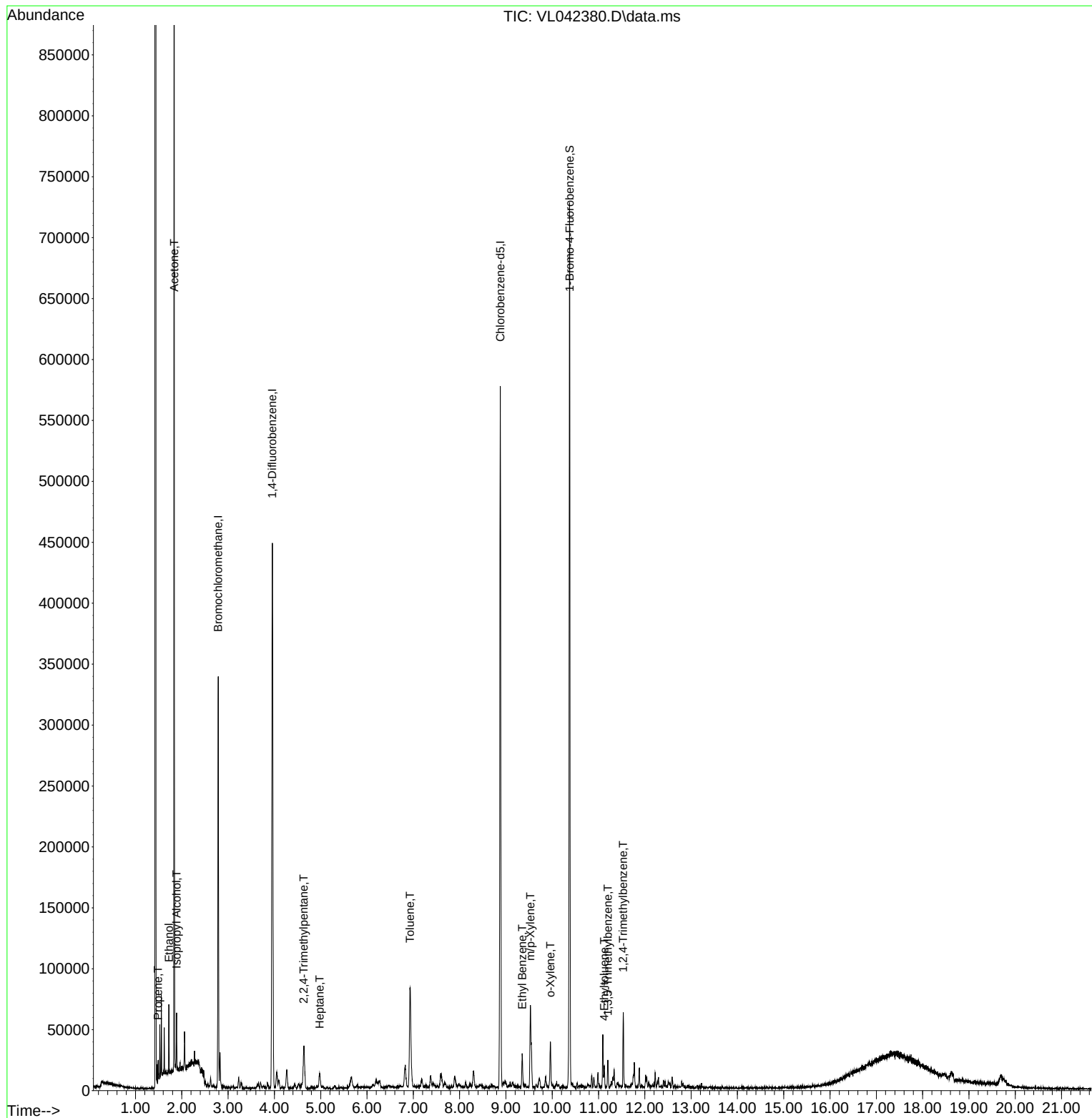
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042380.D
Acq On : 18 Apr 2025 03:34
Operator : SY/MD
Sample : Q1726-05DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

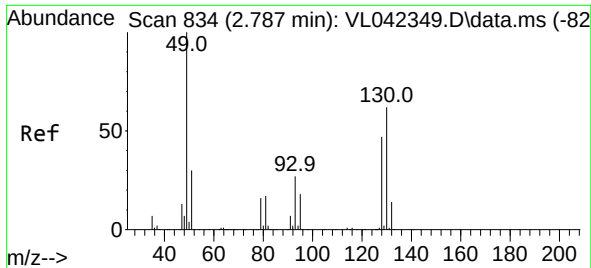
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025DL

Quant Time: Apr 18 04:41:49 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

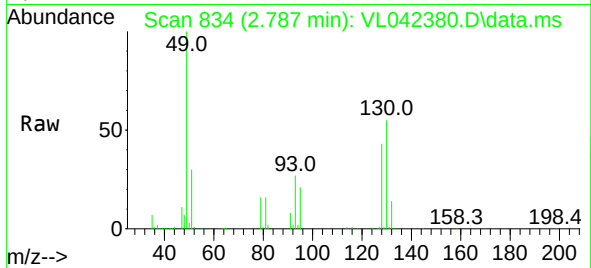
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. 0.000 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

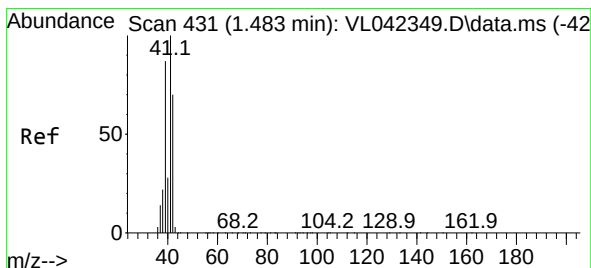
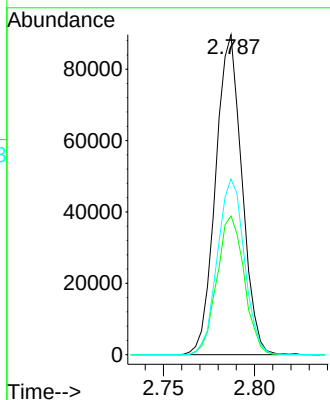
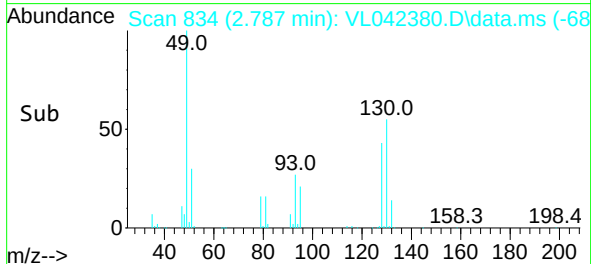
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025DL



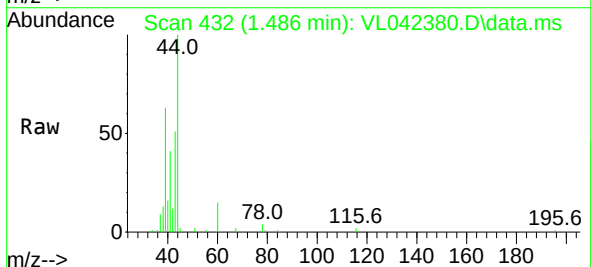
Tgt Ion: 49 Resp: 90034
Ion Ratio Lower Upper
49 100
128 44.9 22.8 68.4
130 56.3 29.3 88.0

Manual Integrations
APPROVED

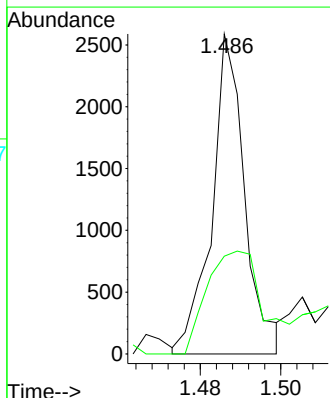
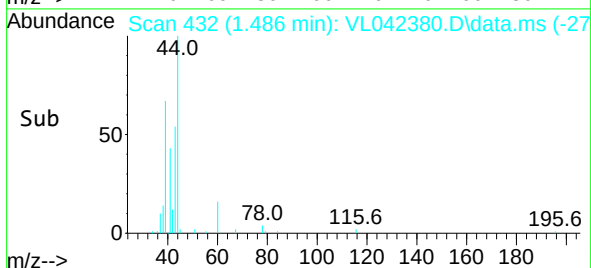
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

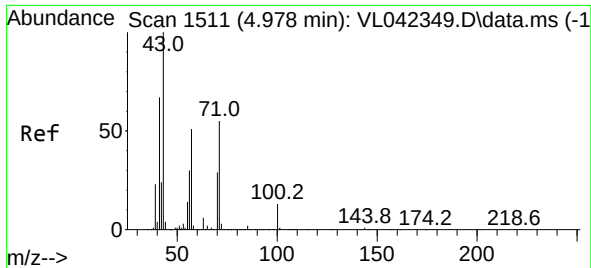


#9
Propene
Concen: 0.213 ppbv m
RT: 1.486 min Scan# 432
Delta R.T. 0.003 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34



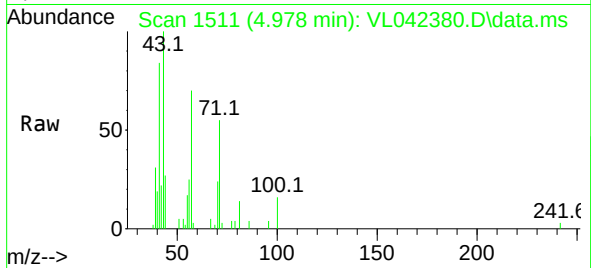
Tgt Ion: 41 Resp: 1466
Ion Ratio Lower Upper
41 100
42 369.4 56.2 84.4#





#10
Heptane
Concen: 0.278 ppbv m
RT: 4.978 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

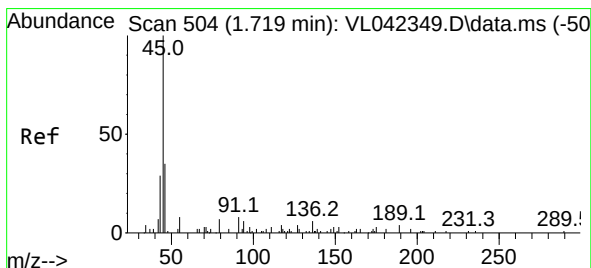
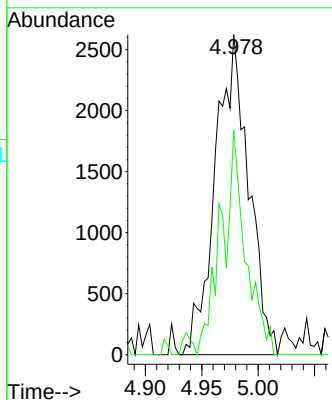
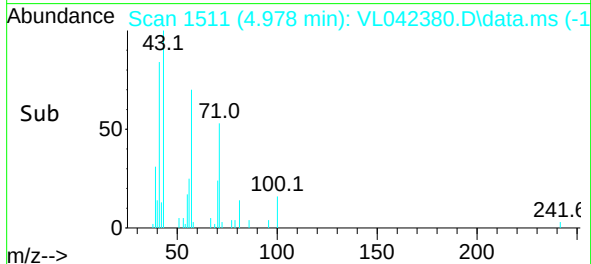
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025DL



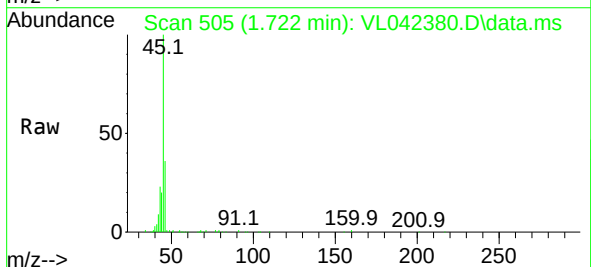
Tgt Ion: 43 Resp: 5390
Ion Ratio Lower Upper
43 100
57 52.7 39.9 59.9

Manual Integrations
APPROVED

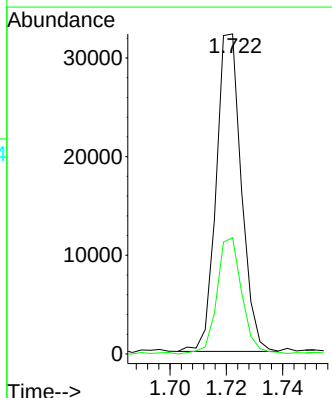
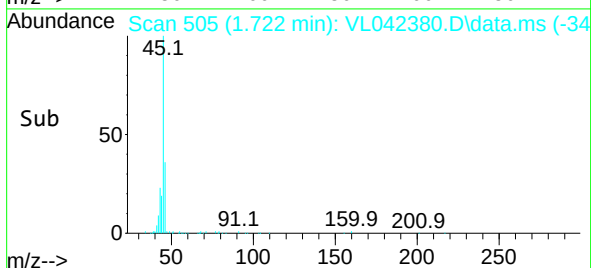
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

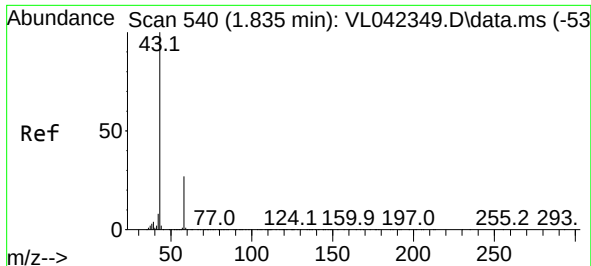


#13
Ethanol
Concen: 18.226 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34



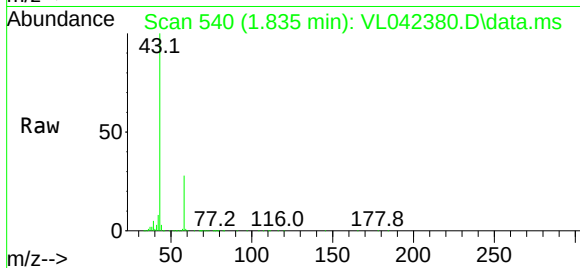
Tgt Ion: 45 Resp: 19984
Ion Ratio Lower Upper
45 100
46 37.5 21.9 87.7





#15
Acetone
Concen: 38.247 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

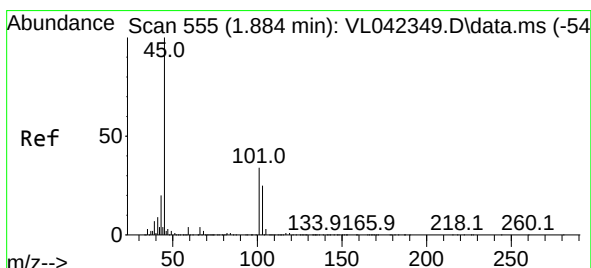
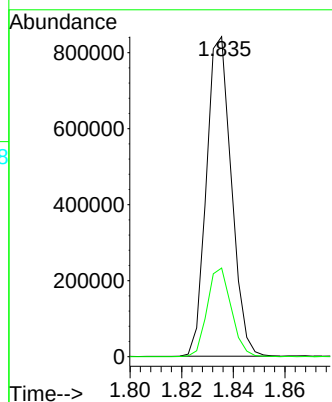
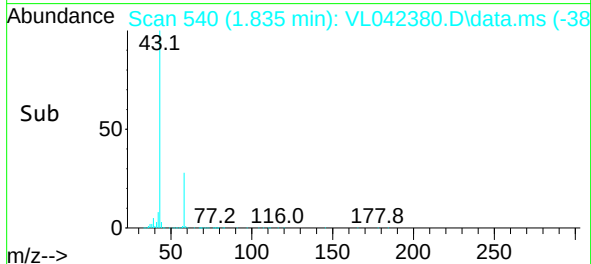
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025DL



Tgt Ion: 43 Resp: 563711
Ion Ratio Lower Upper
43 100
58 27.0 22.4 33.6

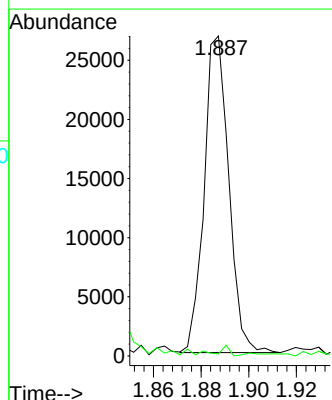
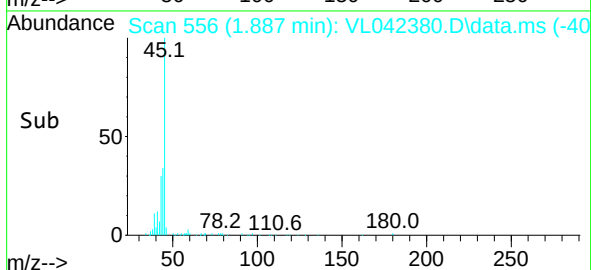
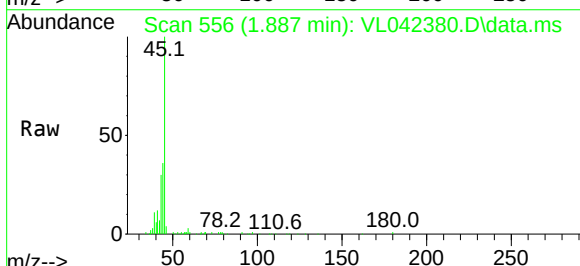
Manual Integrations
APPROVED

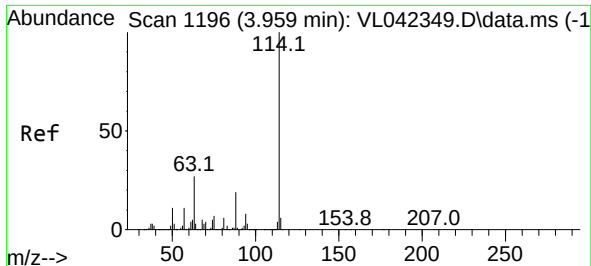
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#19
Isopropyl Alcohol
Concen: 2.354 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

Tgt Ion: 45 Resp: 19270
Ion Ratio Lower Upper
45 100
58 790.9 34.5 51.7#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.955 min Scan# 1196

Delta R.T. -0.003 min

Lab File: VL042380.D

Acq: 18 Apr 2025 03:34

Instrument :

MSVOA_L

ClientSampleId :

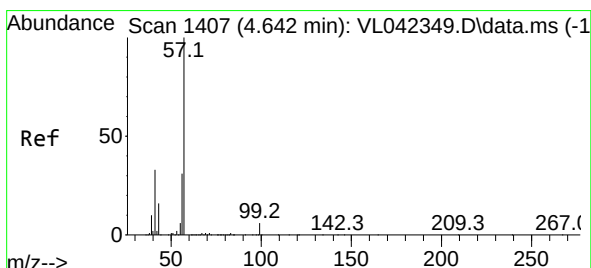
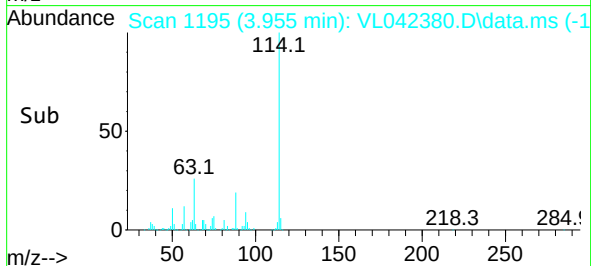
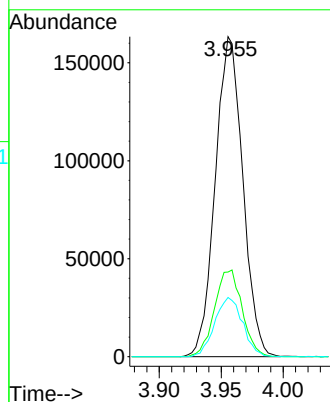
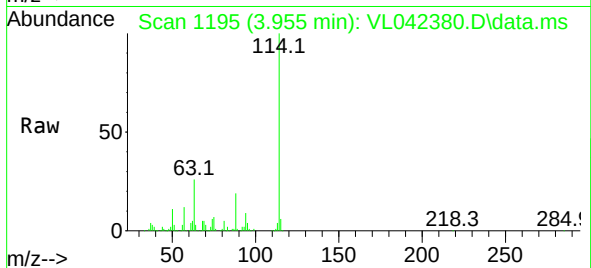
IA-B2-1-03312025DL

Tgt Ion:	114	Resp:	252514
Ion	Ratio	Lower	Upper
114	100		
63	27.2	21.8	32.6
88	18.8	15.5	23.3

Manual Integrations

APPROVED

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



#44

2,2,4-Trimethylpentane

Concen: 0.626 ppbv

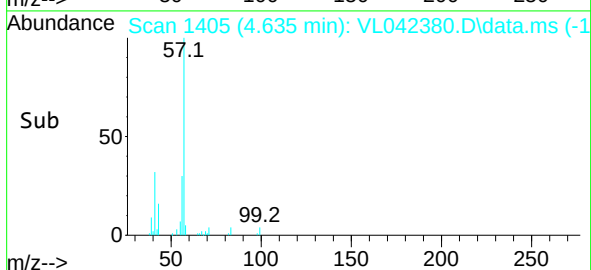
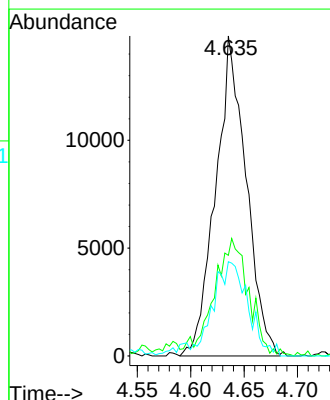
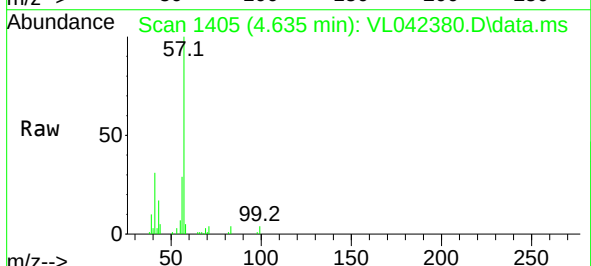
RT: 4.635 min Scan# 1405

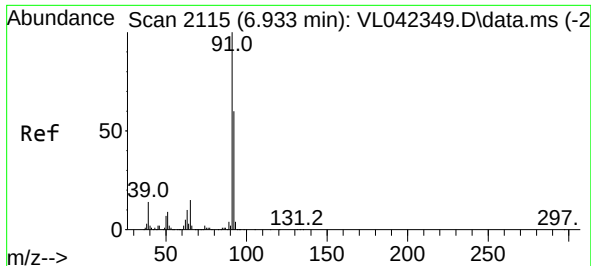
Delta R.T. -0.006 min

Lab File: VL042380.D

Acq: 18 Apr 2025 03:34

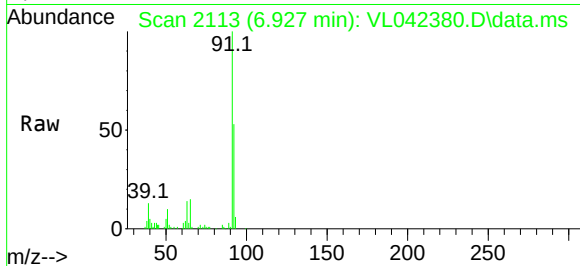
Tgt Ion:	57	Resp:	29451
Ion	Ratio	Lower	Upper
57	100		
41	42.2	27.2	40.8
56	35.5	25.7	38.5





#53
Toluene
Concen: 1.745 ppbv
RT: 6.927 min Scan# 2113
Delta R.T. -0.006 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

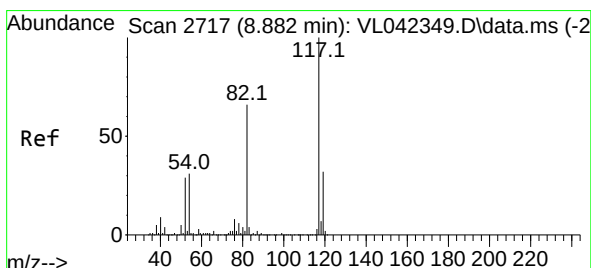
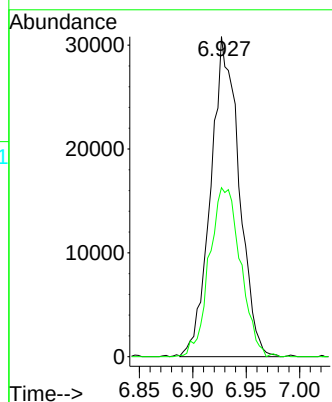
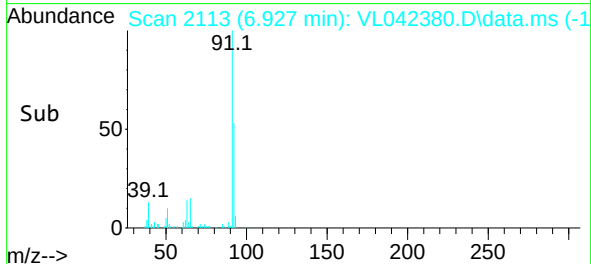
Instrument : MSVOA_L
ClientSampleId : IA-B2-1-03312025DL



Tgt Ion: 91 Resp: 57048
Ion Ratio Lower Upper
91 100
92 58.1 48.2 72.4

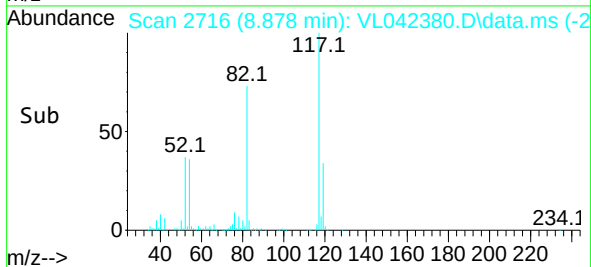
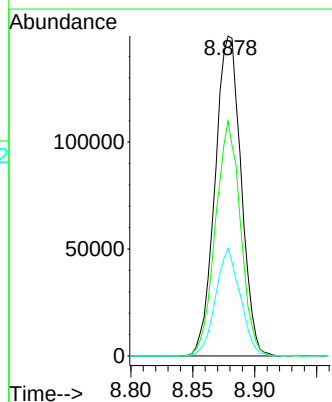
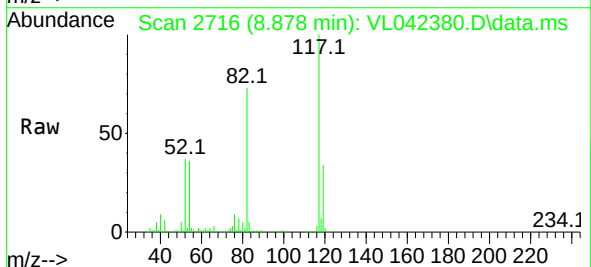
Manual Integrations
APPROVED

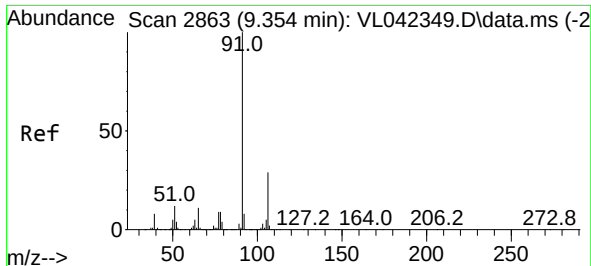
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2716
Delta R.T. -0.003 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

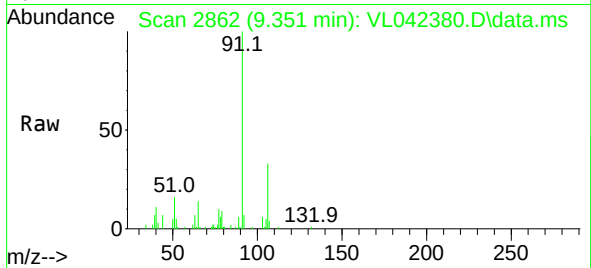
Tgt Ion:117 Resp: 219443
Ion Ratio Lower Upper
117 100
82 70.4 57.8 86.6
119 31.8 25.2 37.8





#58
Ethyl Benzene
Concen: 0.333 ppbv
RT: 9.351 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

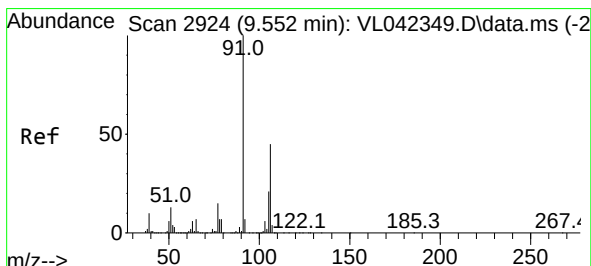
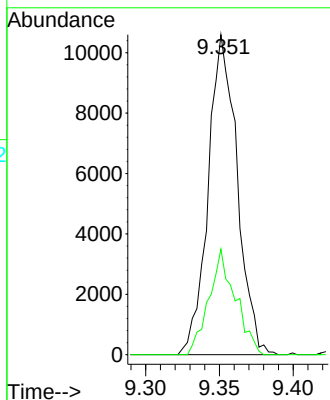
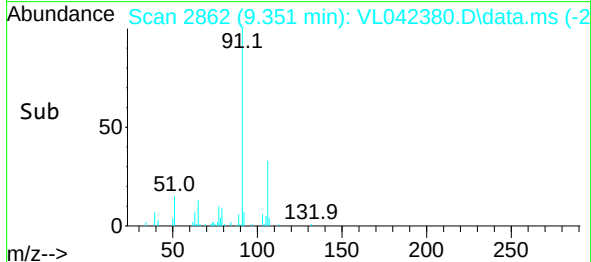
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025DL



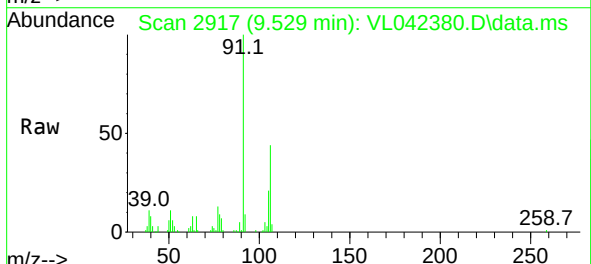
Tgt Ion: 91 Resp: 1449
Ion Ratio Lower Upper
91 100
106 33.0 23.0 34.4

Manual Integrations
APPROVED

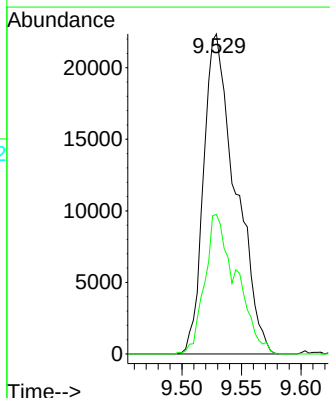
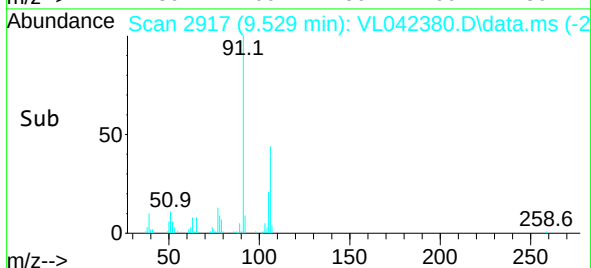
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

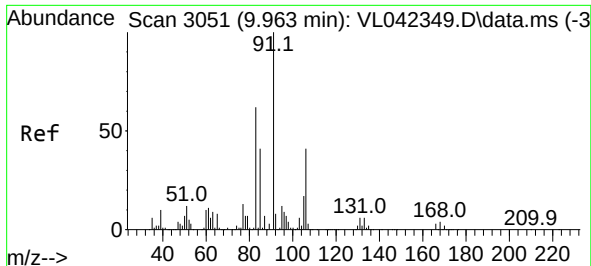


#59
m/p-Xylene
Concen: 1.196 ppbv
RT: 9.529 min Scan# 2917
Delta R.T. -0.023 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34



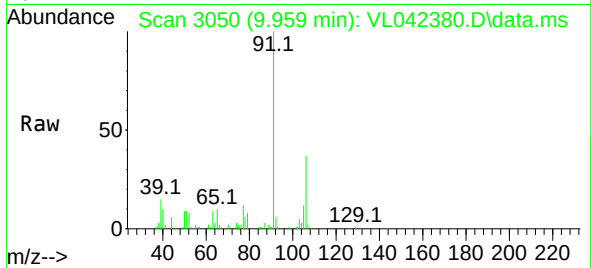
Tgt Ion: 91 Resp: 41899
Ion Ratio Lower Upper
91 100
106 43.0 35.4 53.2





#60
o-Xylene
Concen: 0.457 ppbv
RT: 9.959 min Scan# 3051
Delta R.T. -0.003 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

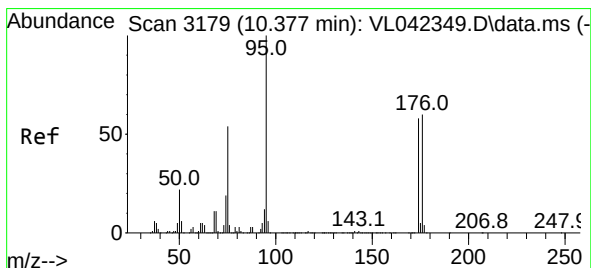
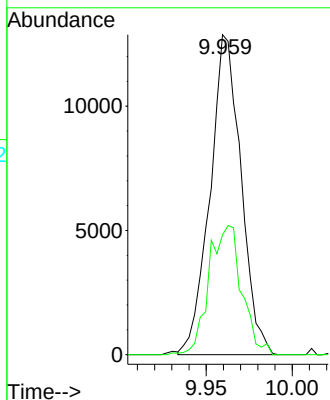
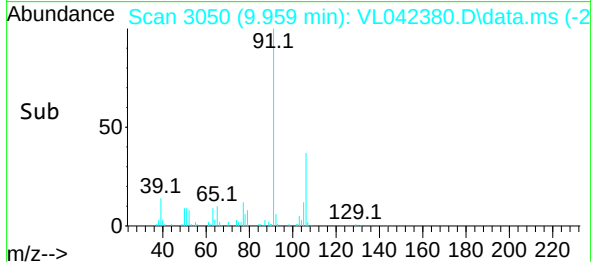
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025DL



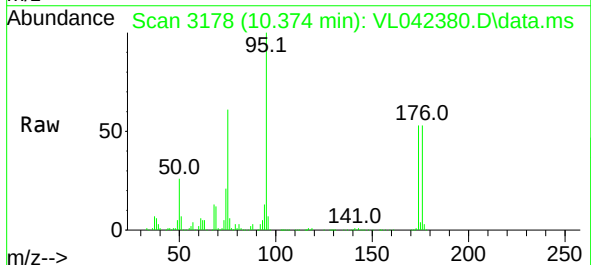
Tgt Ion: 91 Resp: 16128
Ion Ratio Lower Upper
91 100
106 42.8 21.1 63.4

Manual Integrations
APPROVED

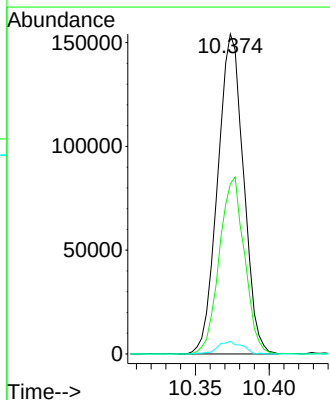
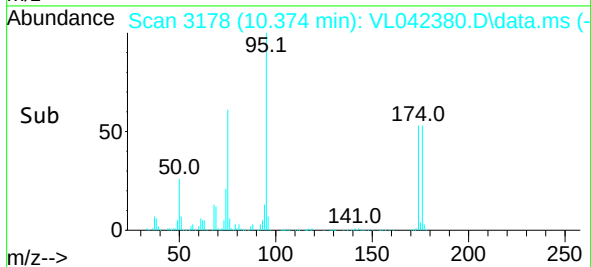
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

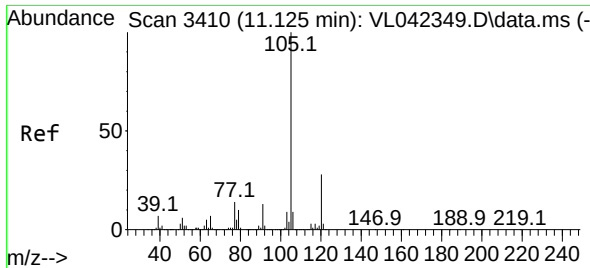


#68
1-Bromo-4-Fluorobenzene
Concen: 10.416 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. -0.003 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34



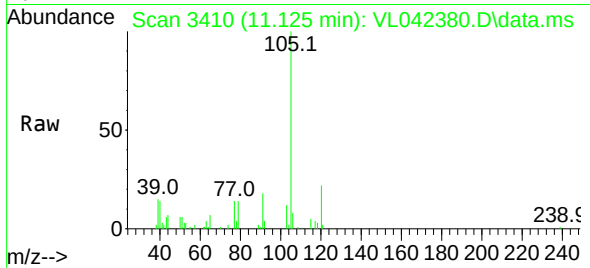
Tgt Ion: 95 Resp: 187830
Ion Ratio Lower Upper
95 100
174 53.9 48.5 72.7
175 3.8 3.7 5.5





#72
4-Ethyltoluene
Concen: 0.168 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.000 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

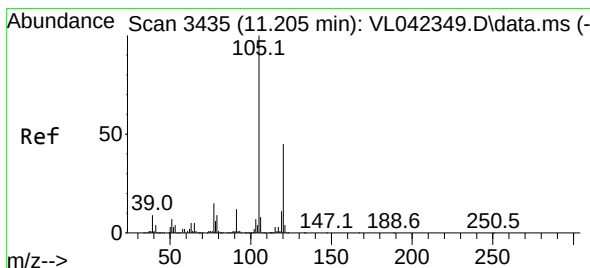
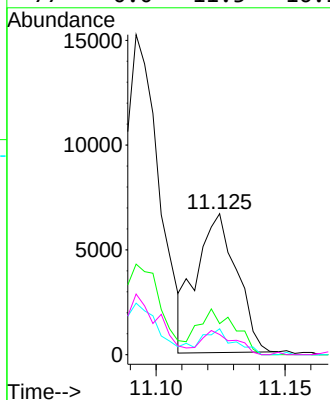
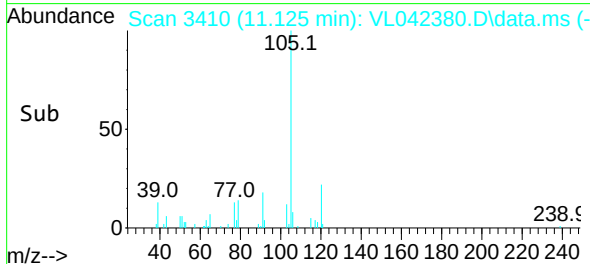
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025DL



Tgt Ion:105 Resp: 7252
Ion Ratio Lower Upper
105 100
120 0.0 23.2 34.8
91 13.8 10.4 15.6
77 0.0 11.3 16.9#

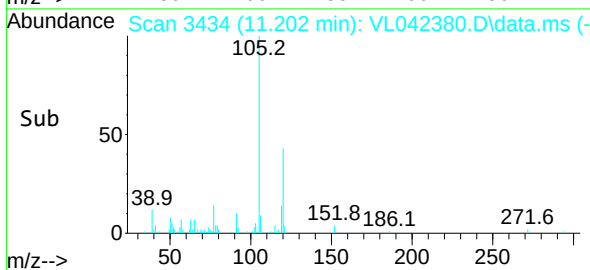
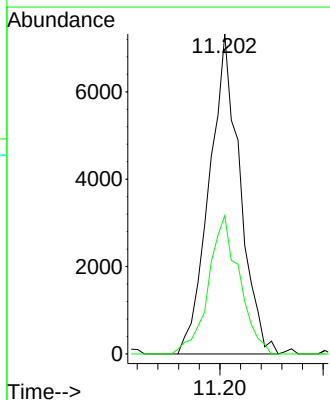
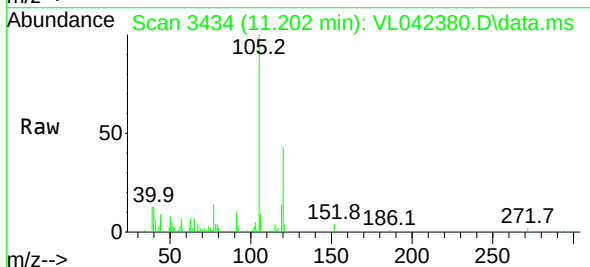
Manual Integrations
APPROVED

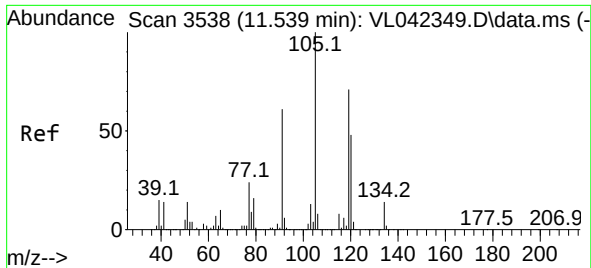
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#73
1,3,5-Trimethylbenzene
Concen: 0.198 ppbv
RT: 11.202 min Scan# 3434
Delta R.T. -0.003 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

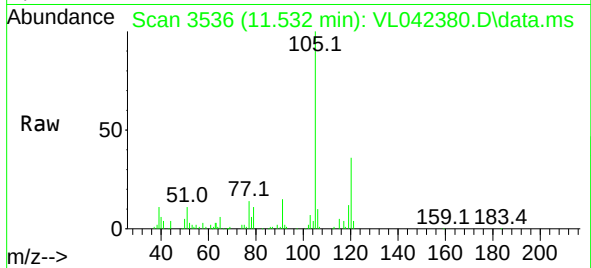
Tgt Ion:105 Resp: 7522
Ion Ratio Lower Upper
105 100
120 43.2 35.6 53.4





#74
 1,2,4-Trimethylbenzene
 Concen: 0.493 ppbv
 RT: 11.532 min Scan# 3536
 Delta R.T. -0.006 min
 Lab File: VL042380.D
 Acq: 18 Apr 2025 03:34

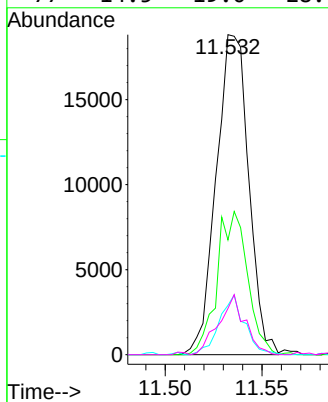
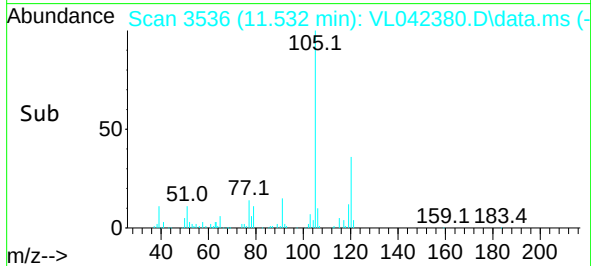
Instrument : MSVOA_L
 ClientSampleId : IA-B2-1-03312025DL



Tgt Ion:	105	Resp:	21924
Ion	Ratio	Lower	Upper
105	100		
120	35.8	38.1	57.1
91	15.0	48.8	73.2
77	14.5	19.0	28.4

Manual Integrations
 APPROVED

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



Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-1-03312025DL2	SDG No.:	Q1726
Lab Sample ID:	Q1726-05DL2	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
VL042391.D	100		04/18/25 14:45	VL041825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	21.0	104	UD	104	247	ug/m3
64-17-5	Ethanol	200	377	DQ	60.3	94.2	ug/m3
74-87-3	Chloromethane	9.80	20.2	UD	20.2	103	ug/m3
75-01-4	Vinyl Chloride	1.40	3.58	UD	3.58	7.67	ug/m3
74-83-9	Bromomethane	14.0	54.4	UD	54.4	194	ug/m3
75-00-3	Chloroethane	17.0	44.9	UD	44.9	132	ug/m3
109-99-9	Tetrahydrofuran	13.0	38.3	UDQ	38.3	147	ug/m3
75-69-4	Trichlorofluoromethane	16.0	89.9	UD	89.9	281	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	16.0	123	UD	123	383	ug/m3
76-14-2	Dichlorotetrafluoroethane	8.80	61.5	UD	61.5	349	ug/m3
593-60-2	Bromoethene	12.0	52.5	UD	52.5	219	ug/m3
75-65-0	tert-Butyl alcohol	19.0	57.6	UD	57.6	152	ug/m3
142-82-5	Heptane	11.0	45.1	UDQ	45.1	205	ug/m3
67-63-0	Isopropyl Alcohol	29.5	72.5	JD	17.0	123	ug/m3
75-35-4	1,1-Dichloroethene	14.0	55.5	UD	55.5	198	ug/m3
67-64-1	Acetone	510	1210	D	57.0	119	ug/m3
75-15-0	Carbon Disulfide	16.0	49.8	UD	49.8	156	ug/m3
1634-04-4	Methyl tert-Butyl Ether	12.0	43.3	UD	43.3	180	ug/m3
75-09-2	Methylene Chloride	19.0	66.0	UD	66.0	174	ug/m3
156-60-5	trans-1,2-Dichloroethene	19.0	75.3	UD	75.3	198	ug/m3
75-34-3	1,1-Dichloroethane	13.0	52.6	UD	52.6	202	ug/m3
110-82-7	Cyclohexane	22.0	75.7	UD	75.7	172	ug/m3
78-93-3	2-Butanone	12.0	35.4	UD	35.4	147	ug/m3
56-23-5	Carbon Tetrachloride	1.10	6.92	UD	6.92	18.9	ug/m3
156-59-2	cis-1,2-Dichloroethene	8.90	35.3	UD	35.3	198	ug/m3
67-66-3	Chloroform	8.30	40.5	UD	40.5	244	ug/m3
71-55-6	1,1,1-Trichloroethane	0.95	5.18	UD	5.18	16.4	ug/m3
540-84-1	2,2,4-Trimethylpentane	10.0	46.7	UD	46.7	234	ug/m3
71-43-2	Benzene	8.70	27.8	UD	27.8	160	ug/m3
107-06-2	1,2-Dichloroethane	9.10	36.8	UD	36.8	202	ug/m3
79-01-6	Trichloroethene	1.70	9.14	UD	9.14	16.1	ug/m3
78-87-5	1,2-Dichloropropane	11.0	50.8	UD	50.8	231	ug/m3
75-27-4	Bromodichloromethane	7.70	51.6	UD	51.6	335	ug/m3
108-10-1	4-Methyl-2-Pentanone	9.30	38.1	UD	38.1	205	ug/m3
108-88-3	Toluene	19.4	73.1	JD	41.5	188	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-1-03312025DL2	SDG No.:	Q1726
Lab Sample ID:	Q1726-05DL2	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
VL042391.D	100		04/18/25 14:45	VL041825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	6.00	27.2	UD	27.2	227	ug/m3
10061-01-5	cis-1,3-Dichloropropene	6.40	29.1	UD	29.1	227	ug/m3
79-00-5	1,1,2-Trichloroethane	7.10	38.7	UD	38.7	273	ug/m3
124-48-1	Dibromochloromethane	6.60	56.2	UD	56.2	426	ug/m3
106-93-4	1,2-Dibromoethane	7.20	55.3	UD	55.3	76.8	ug/m3
127-18-4	Tetrachloroethene	1.50	10.2	UD	10.2	20.3	ug/m3
108-90-7	Chlorobenzene	7.60	35.0	UD	35.0	230	ug/m3
100-41-4	Ethyl Benzene	12.0	52.1	UD	52.1	217	ug/m3
179601-23-1	m/p-Xylene	21.0	91.2	UD	91.2	434	ug/m3
95-47-6	o-Xylene	12.0	52.1	UD	52.1	217	ug/m3
100-42-5	Styrene	11.0	46.8	UD	46.8	213	ug/m3
75-25-2	Bromoform	5.70	58.9	UD	58.9	517	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	1.10	7.55	UD	7.55	20.6	ug/m3
95-49-8	2-Chlorotoluene	11.0	57.0	UD	57.0	259	ug/m3
108-67-8	1,3,5-Trimethylbenzene	11.0	54.1	UD	54.1	246	ug/m3
95-63-6	1,2,4-Trimethylbenzene	7.80	38.4	UD	38.4	246	ug/m3
541-73-1	1,3-Dichlorobenzene	8.00	48.1	UD	48.1	301	ug/m3
106-46-7	1,4-Dichlorobenzene	5.30	31.9	UD	31.9	301	ug/m3
95-50-1	1,2-Dichlorobenzene	7.50	45.1	UD	45.1	301	ug/m3
120-82-1	1,2,4-Trichlorobenzene	8.50	63.1	UD	63.1	371	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	8.50	90.7	UD	90.7	533	ug/m3
106-99-0	1,3-Butadiene	13.0	28.8	UD	28.8	111	ug/m3
91-20-3	Naphthalene	7.50	39.3	UD	39.3	52.4	ug/m3
622-96-8	4-Ethyltoluene	12.0	59.0	UD	59.0	246	ug/m3
110-54-3	Hexane	11.0	38.8	UD	38.8	176	ug/m3
107-05-1	Allyl Chloride	15.0	47.0	UD	47.0	157	ug/m3
123-91-1	1,4-Dioxane	21.0	75.7	UD	75.7	180	ug/m3
80-62-6	Methyl Methacrylate	8.60	35.2	UDQ	35.2	205	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	126000	2.787
540-36-3	1,4-Difluorobenzene	390000	3.959
3114-55-4	Chlorobenzene-d5	328000	8.882

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-1-03312025DL2	SDG No.:	Q1726
Lab Sample ID:	Q1726-05DL2	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
VL042391.D	100		04/18/25 14:45	VL041825

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\VL041825\
 Data File : VL042391.D
 Acq On : 18 Apr 2025 14:45
 Operator : SY/MD
 Sample : Q1726-05DL2 100X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-1-03312025DL2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2025
 Supervised By :Mahesh Dadoda 04/21/2025

Quant Time: Apr 18 22:59:44 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 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	125703	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	390416	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	327579	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	273896	10.175	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.700%
Target Compounds						
13) Ethanol	1.722	45	3027	1.977	ppbv #	24
15) Acetone	1.835	43	104075	5.058	ppbv	99
19) Isopropyl Alcohol	1.890	45	3377	0.295	ppbv #	1
53) Toluene	6.936	91	9781m	0.194	ppbv	
59) m/p-Xylene	9.529	91	6487m	0.124	ppbv	

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

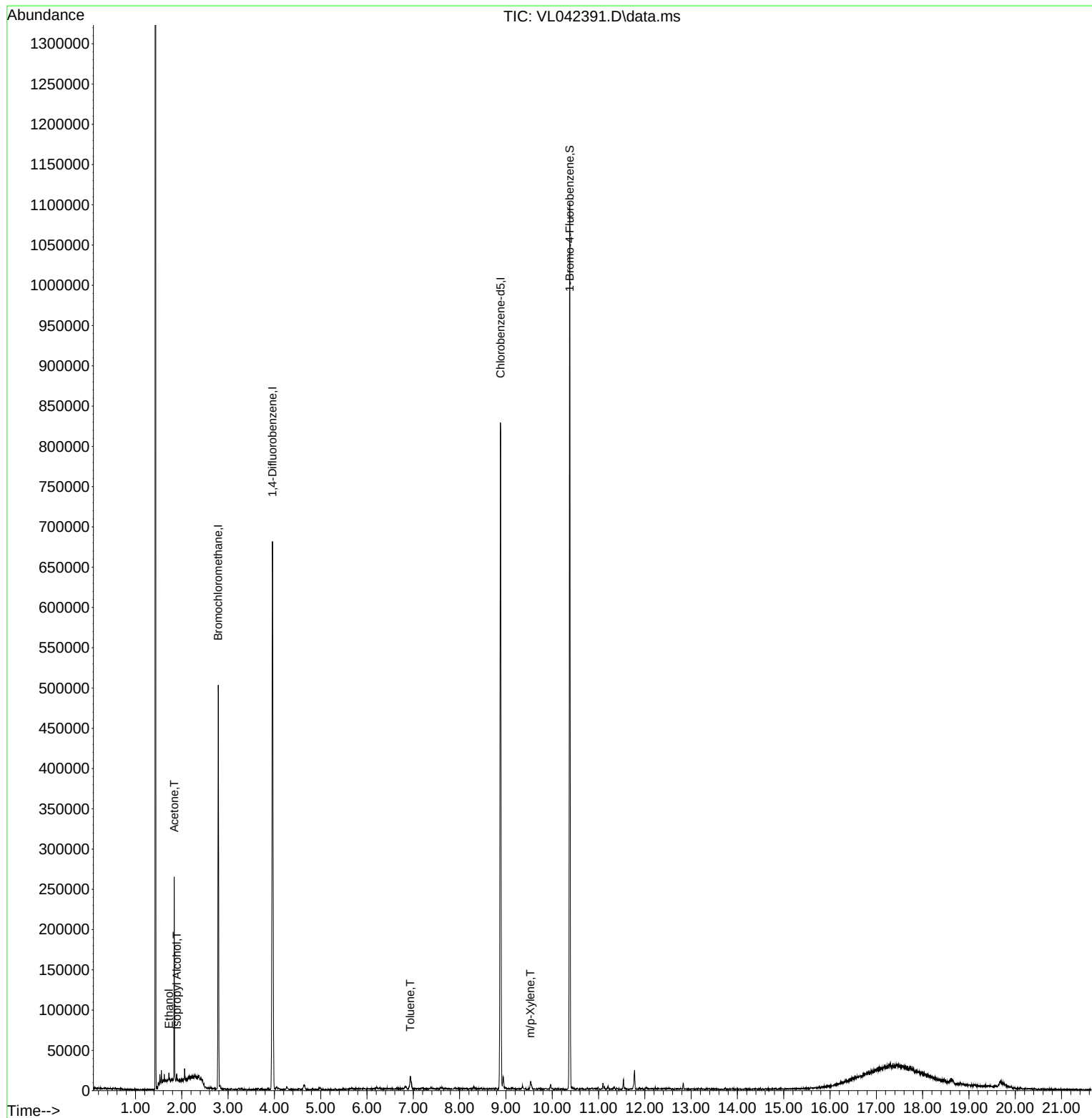
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
Data File : VL042391.D
Acq On : 18 Apr 2025 14:45
Operator : SY/MD
Sample : Q1726-05DL2 100X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

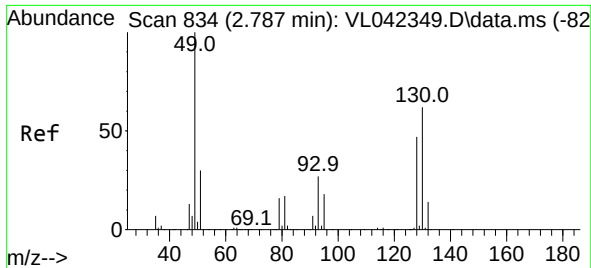
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025DL2

Quant Time: Apr 18 22:59:44 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

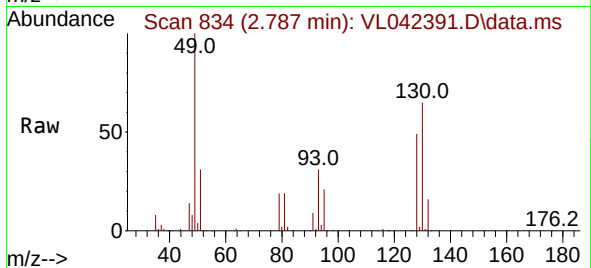
Reviewed By : Semsettin Yesilyurt 04/21/2025
Supervised By : Mahesh Dadoda 04/21/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 834
Delta R.T. -0.000 min
Lab File: VL042391.D
Acq: 18 Apr 2025 14:45

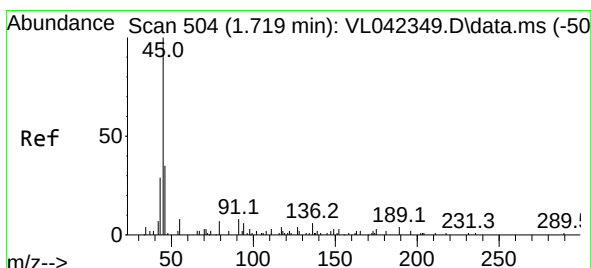
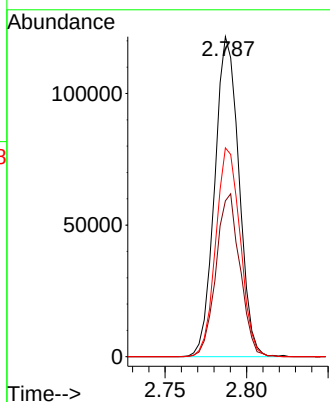
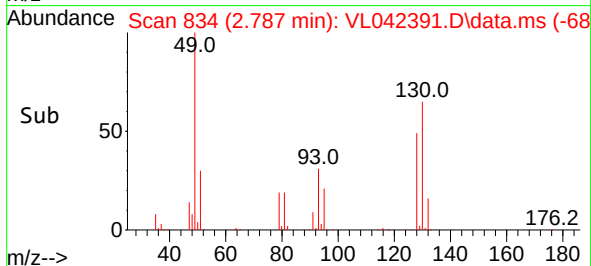
Instrument : MSVOA_L
ClientSampleId : IA-B2-1-03312025DL2



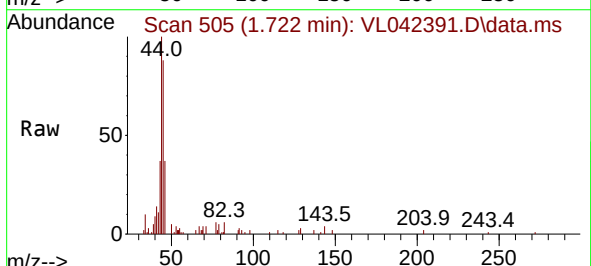
Tgt Ion: 49 Resp: 12570
Ion Ratio Lower Upper
49 100
128 50.5 22.8 68.4
130 65.7 29.3 88.0

Manual Integrations
APPROVED

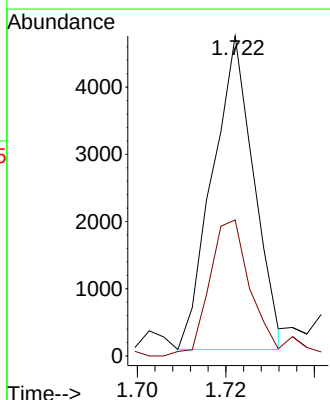
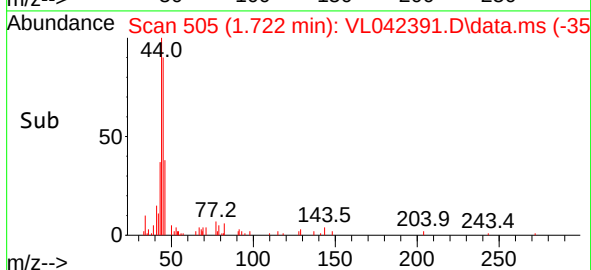
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

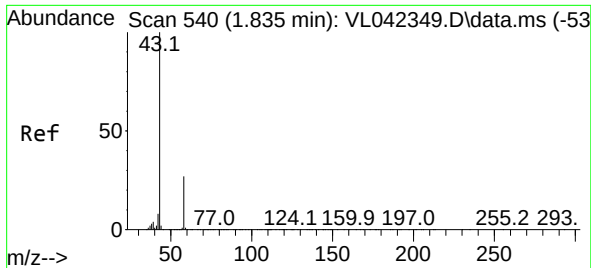


#13
Ethanol
Concen: 1.977 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042391.D
Acq: 18 Apr 2025 14:45



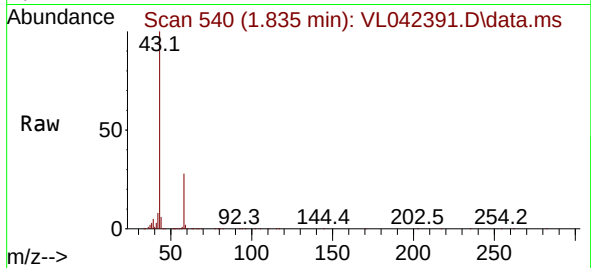
Tgt Ion: 45 Resp: 3027
Ion Ratio Lower Upper
45 100
46 0.0 21.9 87.7#





#15
Acetone
Concen: 5.058 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042391.D
Acq: 18 Apr 2025 14:45

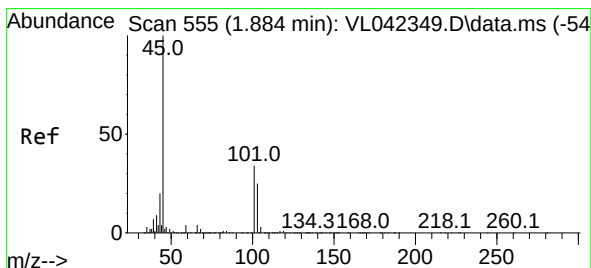
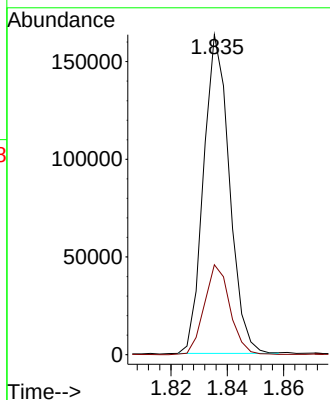
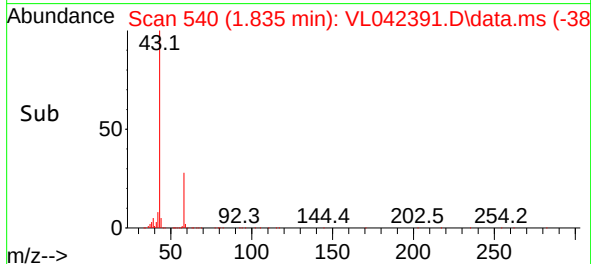
Instrument : MSVOA_L
ClientSampleId : IA-B2-1-03312025DL2



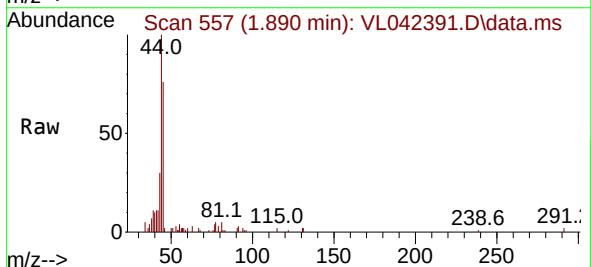
Tgt Ion: 43 Resp: 104075
Ion Ratio Lower Upper
43 100
58 28.5 22.4 33.6

Manual Integrations
APPROVED

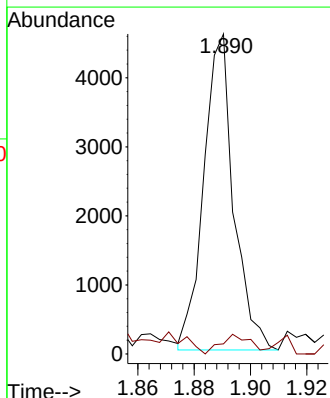
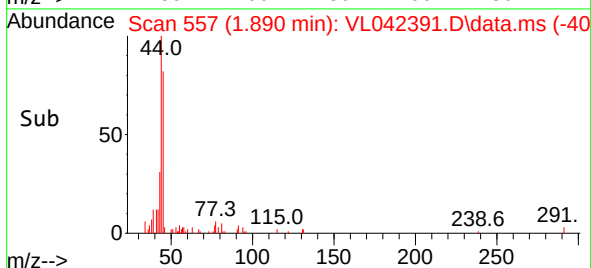
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

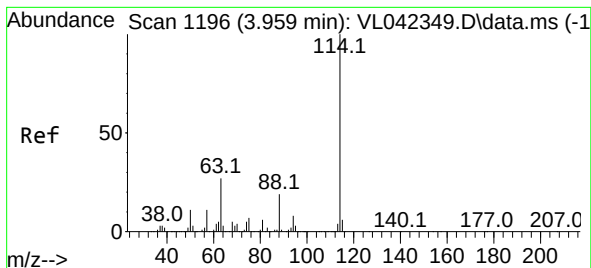


#19
Isopropyl Alcohol
Concen: 0.295 ppbv
RT: 1.890 min Scan# 557
Delta R.T. 0.006 min
Lab File: VL042391.D
Acq: 18 Apr 2025 14:45



Tgt Ion: 45 Resp: 3377
Ion Ratio Lower Upper
45 100
58 879.1 34.5 51.7#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. 0.000 min

Lab File: VL042391.D

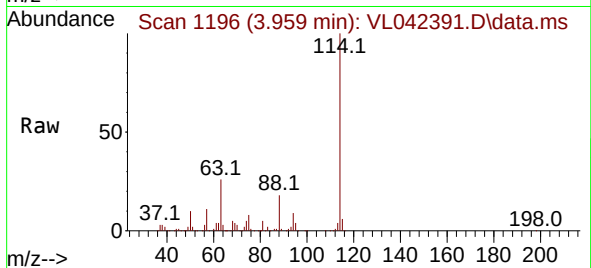
Acq: 18 Apr 2025 14:45

Instrument :

MSVOA_L

ClientSampleId :

IA-B2-1-03312025DL2



Tgt Ion:114 Resp: 390410

Ion Ratio Lower Upper

114 100

63 25.9 21.8 32.6

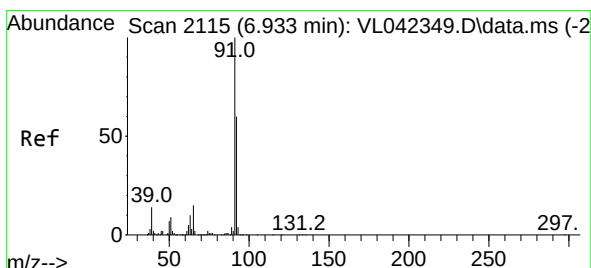
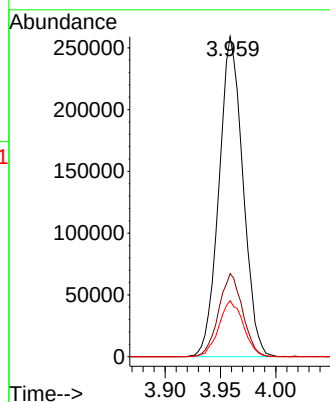
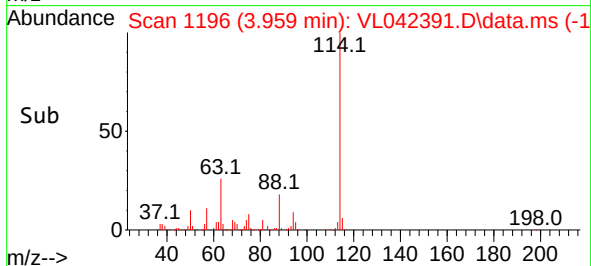
88 17.9 15.5 23.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2025

Supervised By :Mahesh Dadoda 04/21/2025



#53

Toluene

Concen: 0.194 ppbv m

RT: 6.936 min Scan# 2116

Delta R.T. 0.003 min

Lab File: VL042391.D

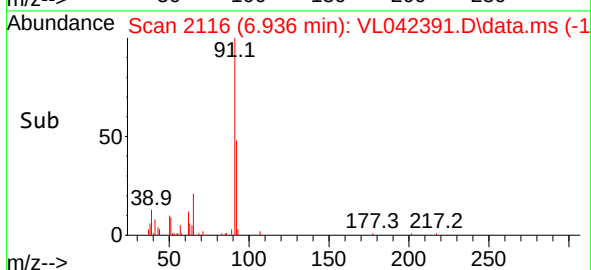
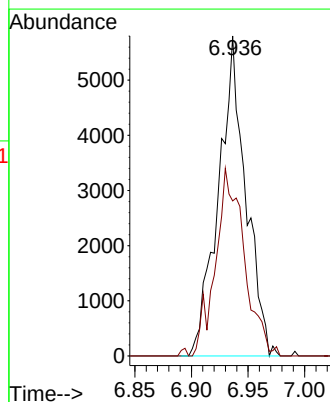
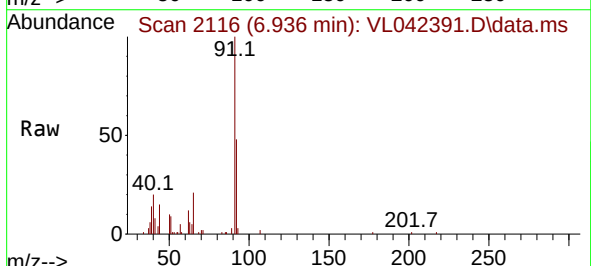
Acq: 18 Apr 2025 14:45

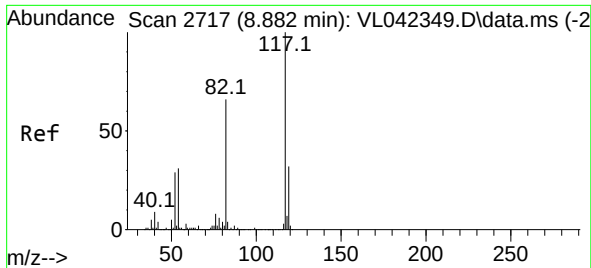
Tgt Ion: 91 Resp: 9781

Ion Ratio Lower Upper

91 100

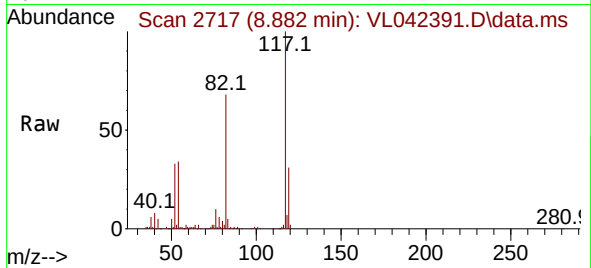
92 62.0 48.2 72.4





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042391.D
Acq: 18 Apr 2025 14:45

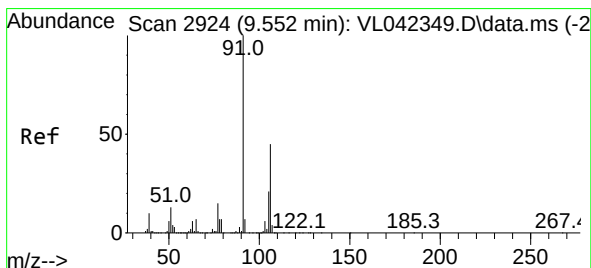
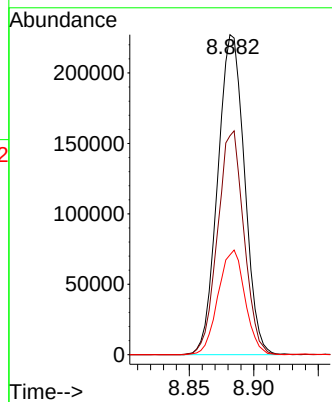
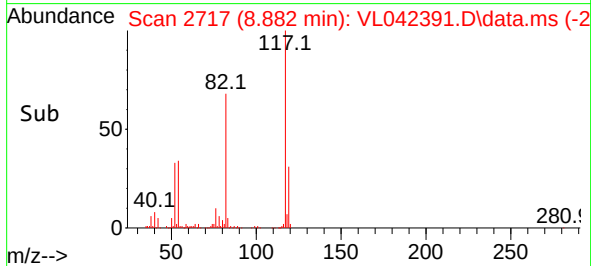
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025DL2



Tgt Ion:117 Resp: 327579
Ion Ratio Lower Upper
117 100
82 68.9 57.8 86.6
119 32.8 25.2 37.8

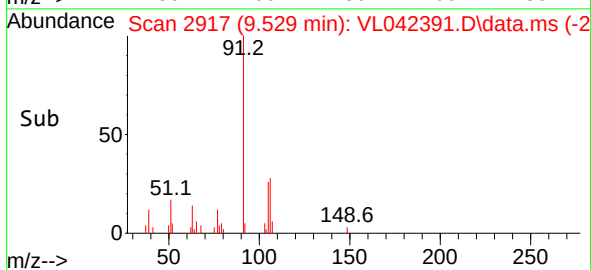
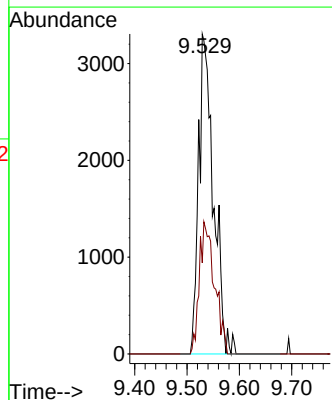
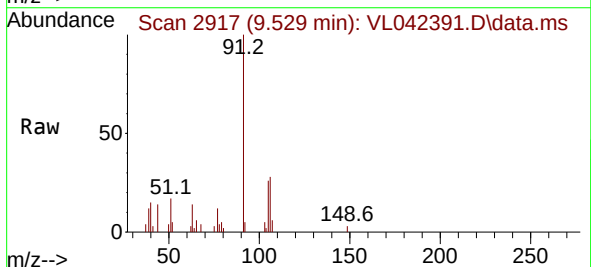
Manual Integrations
APPROVED

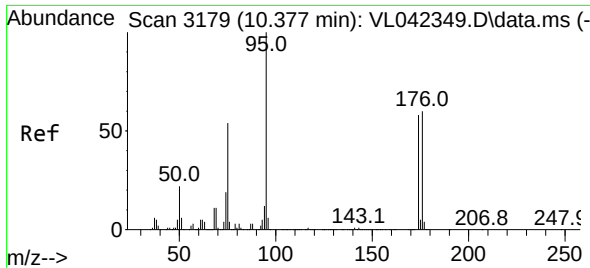
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025



#59
m/p-Xylene
Concen: 0.124 ppbv m
RT: 9.529 min Scan# 2917
Delta R.T. -0.023 min
Lab File: VL042391.D
Acq: 18 Apr 2025 14:45

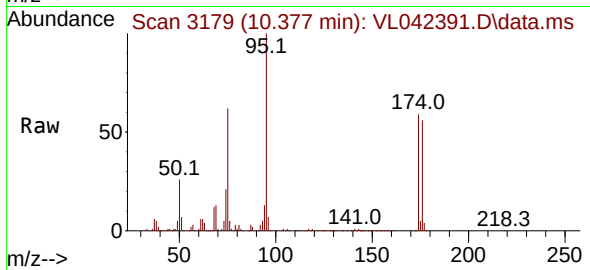
Tgt Ion: 91 Resp: 6487
Ion Ratio Lower Upper
91 100
106 0.0 35.4 53.2#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.175 ppbv
 RT: 10.377 min Scan# 3179
 Delta R.T. 0.000 min
 Lab File: VL042391.D
 Acq: 18 Apr 2025 14:45

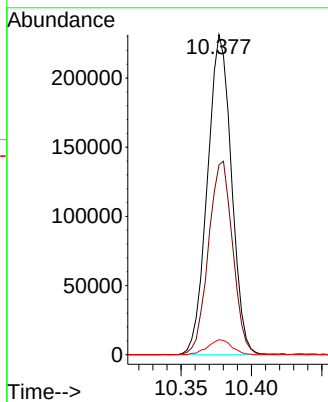
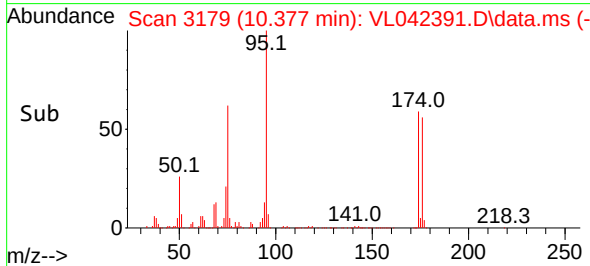
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-1-03312025DL2



Tgt Ion: 95 Resp: 273890
 Ion Ratio Lower Upper
 95 100
 174 61.3 48.5 72.7
 175 4.7 3.7 5.5

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2025
 Supervised By :Mahesh Dadoda 04/21/2025



Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-3-03312025	SDG No.:	Q1726
Lab Sample ID:	Q1726-06	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
VL042371.D	1		04/17/25 22:52	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
64-17-5	Ethanol	310	584	EQ	0.60	0.94	ug/m3
74-87-3	Chloromethane	1.20	2.48		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	0.36	1.06	J	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
593-60-2	Bromoethene	0.12	0.52	U	0.52	2.19	ug/m3
75-65-0	tert-Butyl alcohol	0.69	2.09		0.58	1.52	ug/m3
142-82-5	Heptane	3.40	13.9		0.45	2.05	ug/m3
67-63-0	Isopropyl Alcohol	34.5	84.8	E	0.17	1.23	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
67-64-1	Acetone	170	404	E	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	3.20	11.1		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	1.10	3.79		0.76	1.72	ug/m3
78-93-3	2-Butanone	2.10	6.19		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	0.15	0.73	J	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	9.40	43.9		0.47	2.34	ug/m3
71-43-2	Benzene	1.10	3.51		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	22.3	84.0	E	0.41	1.88	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-3-03312025	SDG No.:	Q1726
Lab Sample ID:	Q1726-06	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
VL042371.D	1		04/17/25 22:52	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
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
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	0.14	0.95		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	4.30	18.7		0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	14.9	64.7		0.91	4.34	ug/m3
95-47-6	o-Xylene	5.80	25.2		0.52	2.17	ug/m3
100-42-5	Styrene	0.39	1.66	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	0.84	4.35		0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	2.60	12.8		0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	7.20	35.4		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	0.20	1.20	J	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	0.45	2.36		0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	2.10	10.3		0.59	2.46	ug/m3
110-54-3	Hexane	3.50	12.3		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	113000	2.787
540-36-3	1,4-Difluorobenzene	323000	3.959
3114-55-4	Chlorobenzene-d5	284000	8.882

TENTATIVE IDENTIFIED COMPOUNDS

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-3-03312025	SDG No.:	Q1726
Lab Sample ID:	Q1726-06	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
VL042371.D	1		04/17/25 22:52	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
75-45-6	Chlorodifluoromethane	0.31		J		1.47	ppbv
115-07-1	Propene	3.00		J		1.49	ppbv
000106-97-8	Butane	9.00		J		1.62	ppbv
000071-23-8	1-Propanol	5.60		J		2.28	ppbv
000107-83-5	Pentane, 2-methyl-	3.80		J		2.47	ppbv
000096-37-7	Cyclopentane, methyl-	4.30		J		3.23	ppbv
000591-76-4	Hexane, 2-methyl-	4.40		J		4.05	ppbv
000589-34-4	Hexane, 3-methyl-	5.00		J		4.27	ppbv
000108-87-2	Cyclohexane, methyl-	4.20		J		5.67	ppbv
000565-75-3	Pentane, 2,3,4-trimethyl-	6.20		J		6.83	ppbv
000589-81-1	Heptane, 3-methyl-	3.80		J		7.60	ppbv
000111-65-9	Octane	4.70		J		8.30	ppbv
98-82-8	Isopropylbenzene	0.39		J		10.5	ppbv
103-65-1	n-propylbenzene	1.30		J		11.0	ppbv
99-87-6	p-Isopropyltoluene	0.31		J		11.9	ppbv
104-51-8	n-Butylbenzene	0.43		J		12.3	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 : VL042371.D
 Acq On : 17 Apr 2025 22:52
 Operator : SY/MD
 Sample : Q1726-06
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-3-03312025

Manual Integrations
 APPROVED

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

Quant Time: Apr 18 02:45:58 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	2.787	49	113154	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	322735	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	284478	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	237949	10.179	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.800%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	9517	0.476	ppbv	98
3) Chlorodifluoromethane	1.473	51	5944m	0.312	ppbv	
4) Chloromethane	1.534	50	9764	1.234	ppbv	98
9) Propene	1.489	41	26287m	3.032	ppbv	
10) Heptane	4.981	43	82673	3.394	ppbv	99
11) Trichlorofluoromethane	1.874	101	4499	0.237	ppbv #	83
13) Ethanol	1.722	45	429340	311.565	ppbv	75
15) Acetone	1.835	43	3062508	165.330	ppbv #	44
17) tert-Butyl alcohol	2.043	59	15845m	0.690	ppbv	
19) Isopropyl Alcohol	1.887	45	355287	34.527	ppbv #	33
20) Methylene Chloride	2.062	84	22966	3.166	ppbv	89
26) Hexane	2.826	57	65232	3.529	ppbv #	37
29) Chloroform	2.852	83	3991	0.153	ppbv	86
30) Cyclohexane	3.855	84	16571	1.109	ppbv #	84
34) 2-Butanone	2.560	43	54027	2.117	ppbv	99
35) Carbon Tetrachloride	3.764	117	2319	0.079	ppbv	84
36) Benzene	3.661	78	36905	1.060	ppbv	96
41) Tetrahydrofuran	3.065	42	5385m	0.362	ppbv	
44) 2,2,4-Trimethylpentane	4.645	57	567345	9.437	ppbv	95
52) Tetrachloroethene	8.228	164	1944m	0.144	ppbv	
53) Toluene	6.936	91	931135	22.290	ppbv	99
58) Ethyl Benzene	9.357	91	239708	4.253	ppbv	98
59) m/p-Xylene	9.532	91	678219	14.937	ppbv	100
60) o-Xylene	9.966	91	265965	5.817	ppbv	99
61) Styrene	9.872	104	8564	0.392	ppbv	95
62) Isopropylbenzene	10.539	105	26216	0.391	ppbv	99
64) n-propylbenzene	10.992	120	21875	1.296	ppbv	95
69) p-Isopropyltoluene	11.927	119	23201	0.311	ppbv	94
70) n-Butylbenzene	12.283	91	33438m	0.431	ppbv	
71) 2-Chlorotoluene	10.901	91	44364	0.843	ppbv	96
72) 4-Ethyltoluene	11.125	105	117824	2.108	ppbv #	56
73) 1,3,5-Trimethylbenzene	11.205	105	128254	2.599	ppbv	99
74) 1,2,4-Trimethylbenzene	11.536	105	415758	7.213	ppbv #	63
76) 1,4-Dichlorobenzene	11.675	146	6136	0.204	ppbv	82
79) Naphthalene	13.516	128	31283	0.454	ppbv #	95
80) Naphthalene,2-methyl-	14.461	142	5013	0.128	ppbv #	88

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

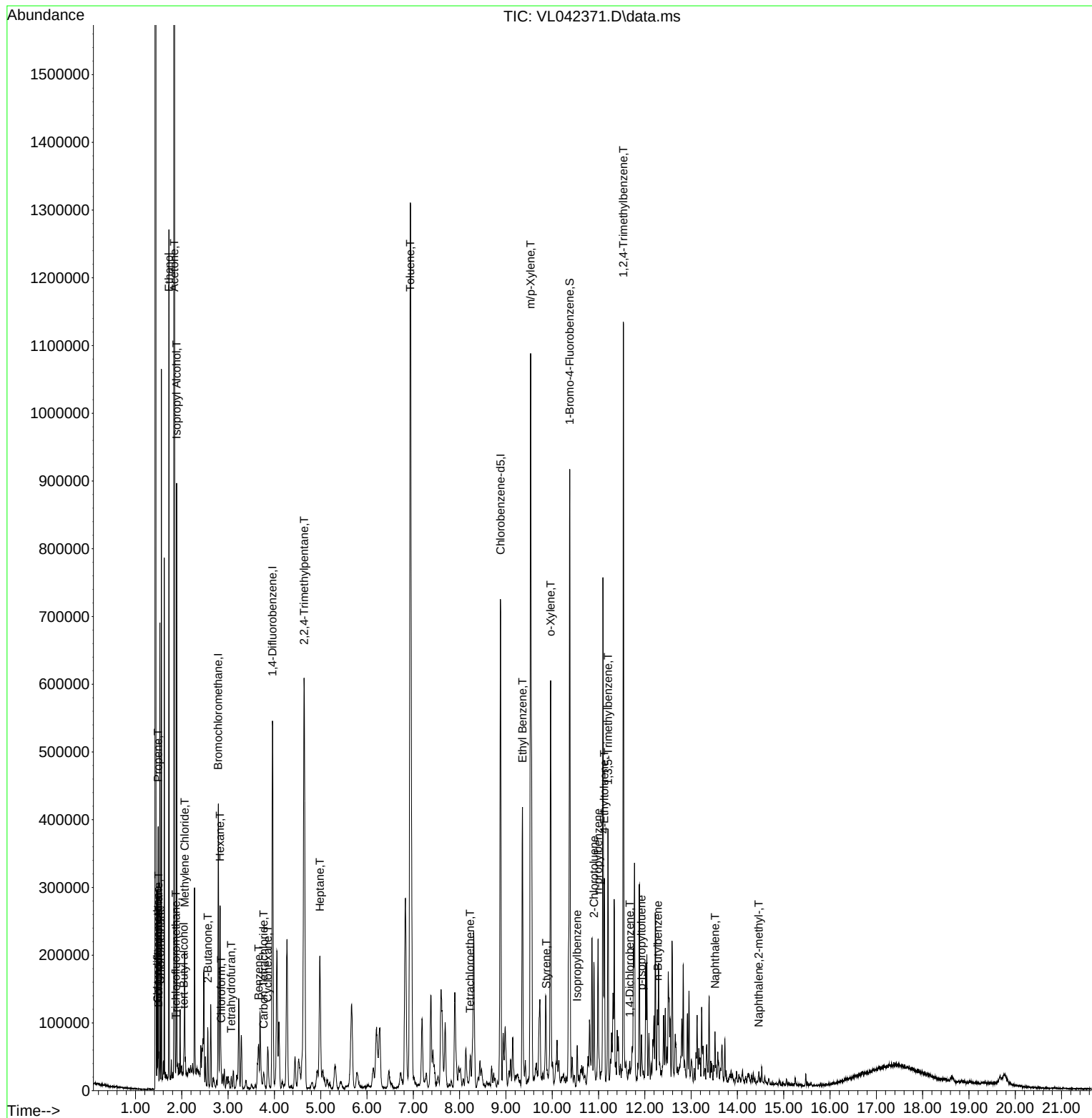
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042371.D
Acq On : 17 Apr 2025 22:52
Operator : SY/MD
Sample : Q1726-06
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

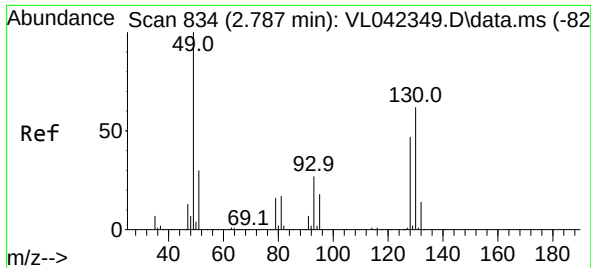
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

Quant Time: Apr 18 02:45:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

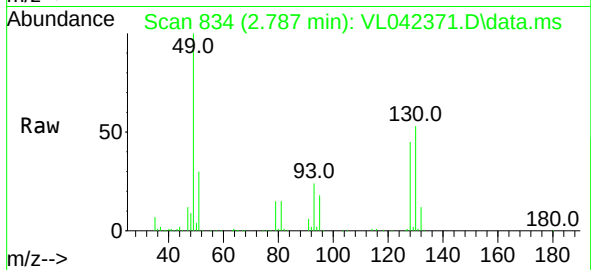
Reviewed By : Semsettin Yesilyurt 04/18/2025
Supervised By : Mahesh Dadoda 04/18/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

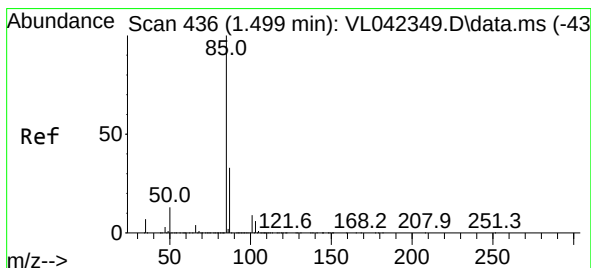
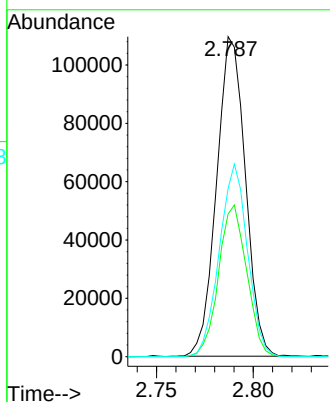
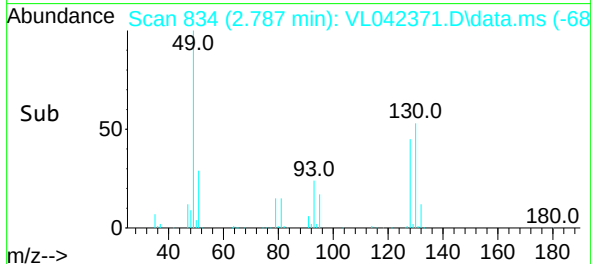
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025



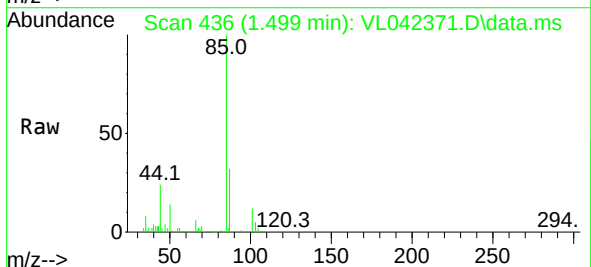
Tgt Ion: 49 Resp: 113154
Ion Ratio Lower Upper
49 100
128 46.5 22.8 68.4
130 59.1 29.3 88.0

Manual Integrations
APPROVED

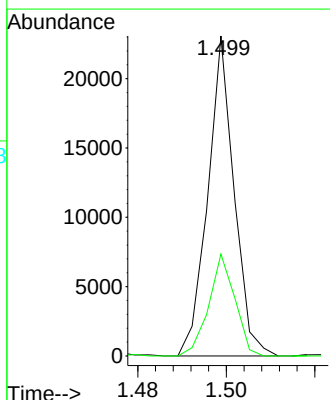
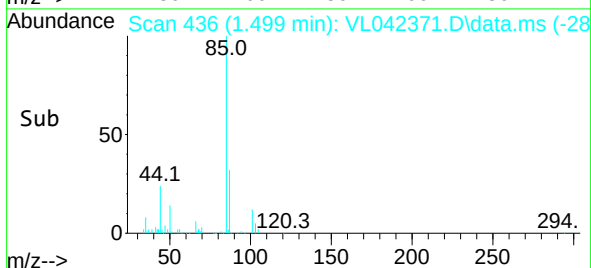
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

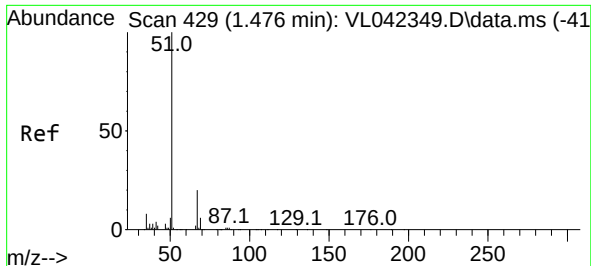


#2
Dichlorodifluoromethane
Concen: 0.476 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52



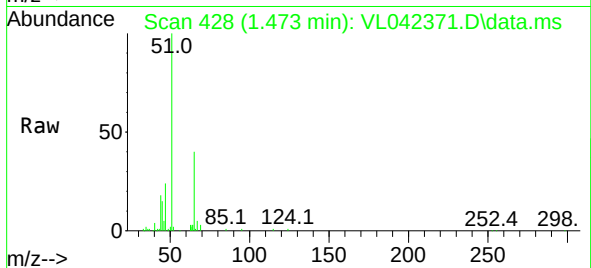
Tgt Ion: 85 Resp: 9517
Ion Ratio Lower Upper
85 100
87 31.9 26.6 39.8





#3
Chlorodifluoromethane
Concen: 0.312 ppbv m
RT: 1.473 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

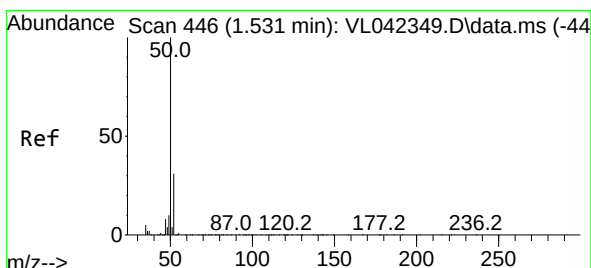
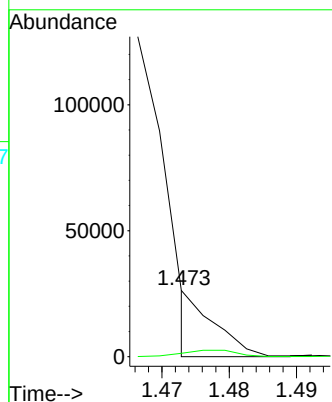
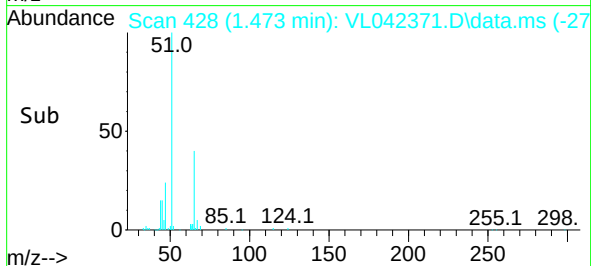
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025



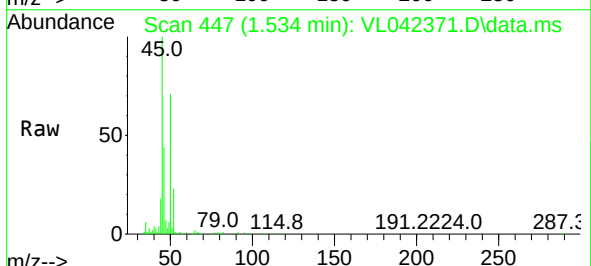
Tgt Ion: 51 Resp: 5944
Ion Ratio Lower Upper
51 100
67 30.9 16.2 24.4

Manual Integrations
APPROVED

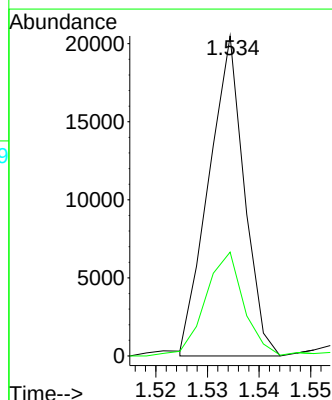
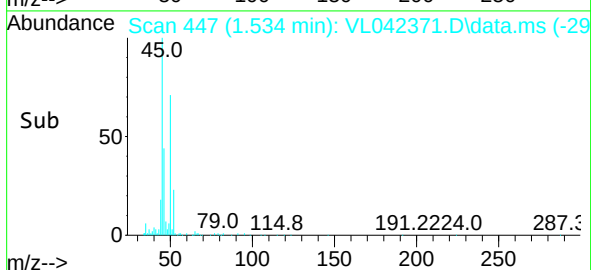
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

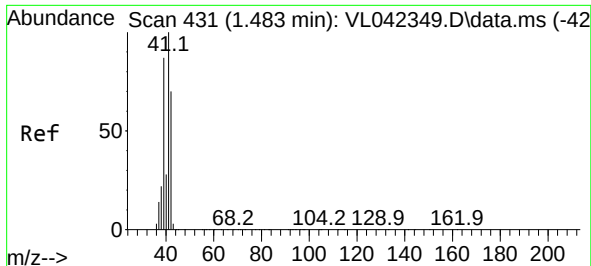


#4
Chloromethane
Concen: 1.234 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52



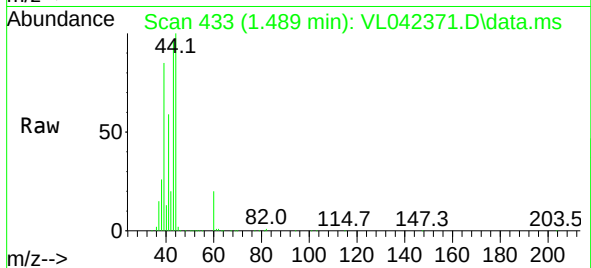
Tgt Ion: 50 Resp: 9764
Ion Ratio Lower Upper
50 100
52 32.2 24.7 37.1





#9
 Propene
 Concen: 3.032 ppbv m
 RT: 1.489 min Scan# 41
 Delta R.T. 0.006 min
 Lab File: VL042371.D
 Acq: 17 Apr 2025 22:52

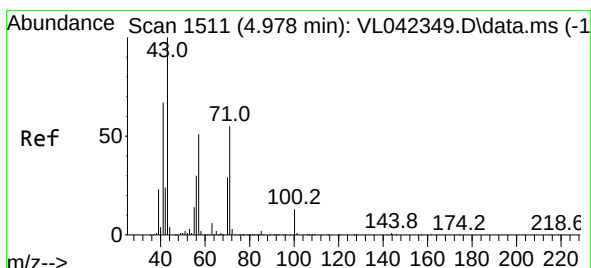
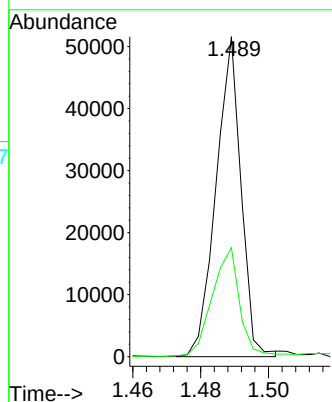
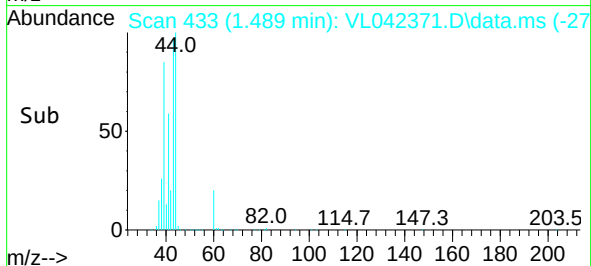
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-3-03312025



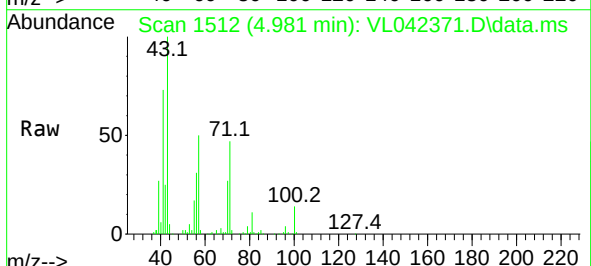
Tgt Ion: 41 Resp: 2628
 Ion Ratio Lower Upper
 41 100
 42 281.2 56.2 84.4

Manual Integrations
 APPROVED

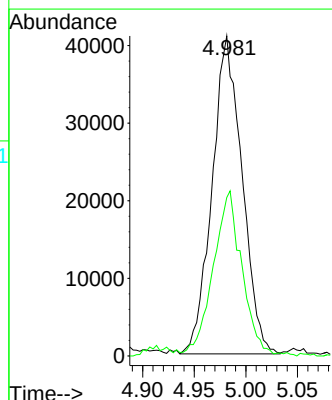
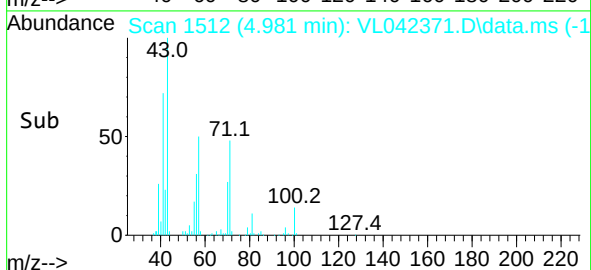
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

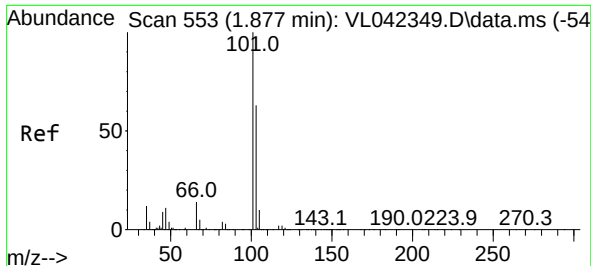


#10
 Heptane
 Concen: 3.394 ppbv
 RT: 4.981 min Scan# 1512
 Delta R.T. 0.003 min
 Lab File: VL042371.D
 Acq: 17 Apr 2025 22:52



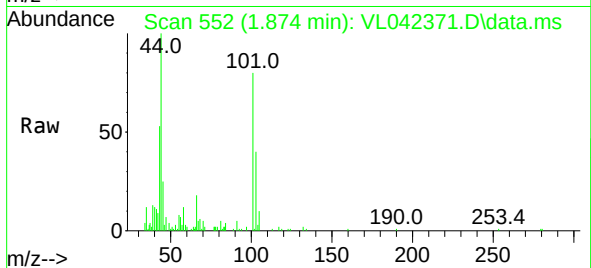
Tgt Ion: 43 Resp: 82673
 Ion Ratio Lower Upper
 43 100
 57 50.3 39.9 59.9





#11
 Trichlorofluoromethane
 Concen: 0.237 ppbv
 RT: 1.874 min Scan# 505
 Delta R.T. -0.003 min
 Lab File: VL042371.D
 Acq: 17 Apr 2025 22:52

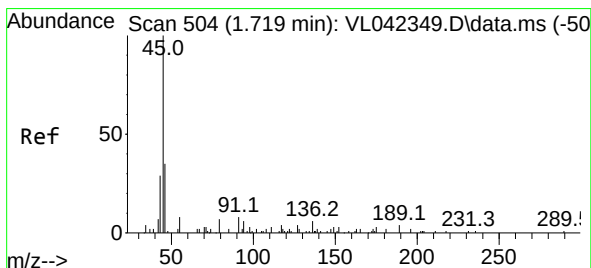
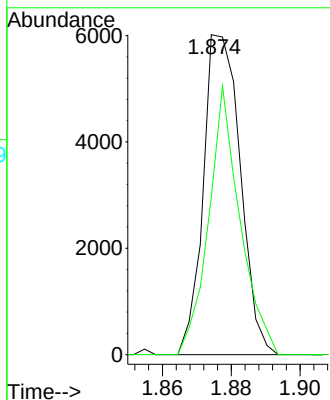
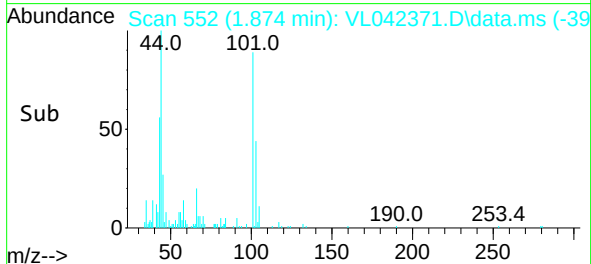
Instrument : MSVOA_L
 ClientSampleId : IA-B2-3-03312025



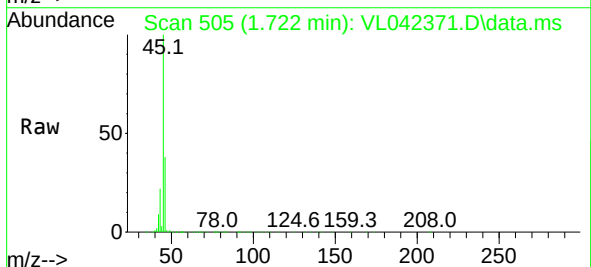
Tgt Ion:101 Resp: 4499
 Ion Ratio Lower Upper
 101 100
 103 49.2 50.1 75.1

Manual Integrations
 APPROVED

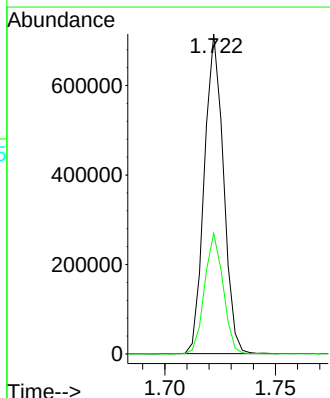
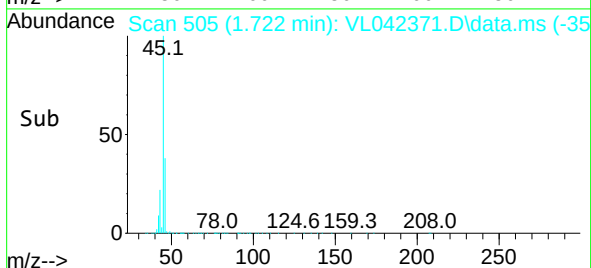
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

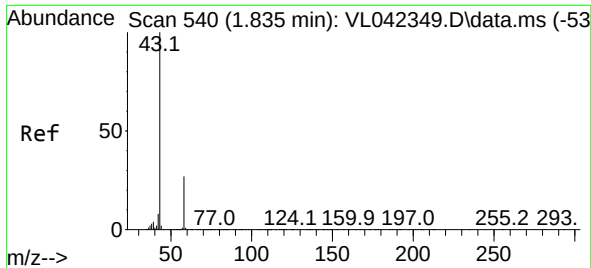


#13
 Ethanol
 Concen: 311.565 ppbv
 RT: 1.722 min Scan# 505
 Delta R.T. 0.003 min
 Lab File: VL042371.D
 Acq: 17 Apr 2025 22:52



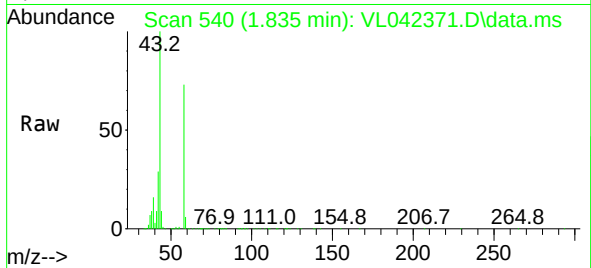
Tgt Ion: 45 Resp: 429340
 Ion Ratio Lower Upper
 45 100
 46 36.8 21.9 87.7





#15
Acetone
Concen: 165.330 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

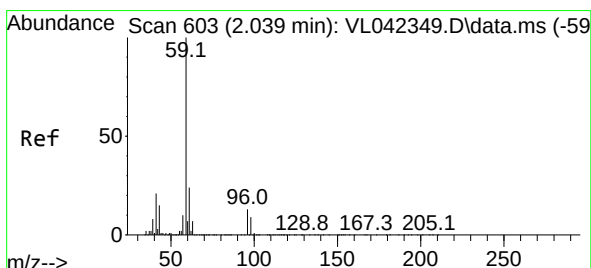
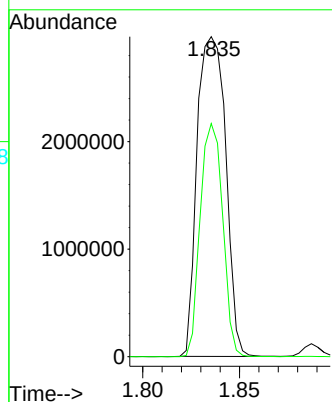
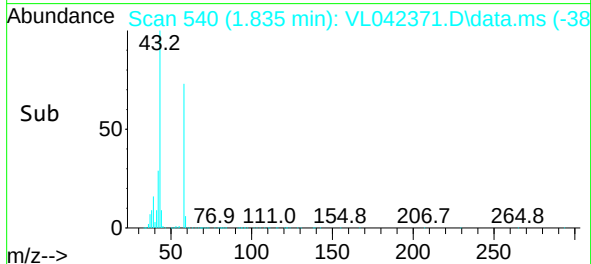
Instrument : MSVOA_L
ClientSampleId : IA-B2-3-03312025



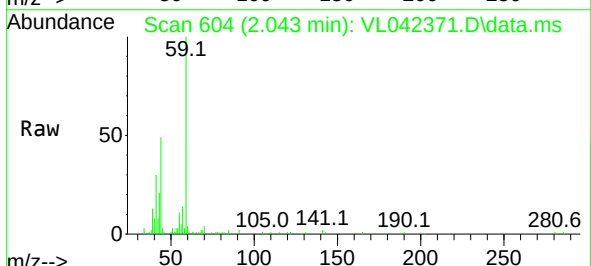
Tgt Ion: 43 Resp: 3062508
Ion Ratio Lower Upper
43 100
58 57.3 22.4 33.6

Manual Integrations
APPROVED

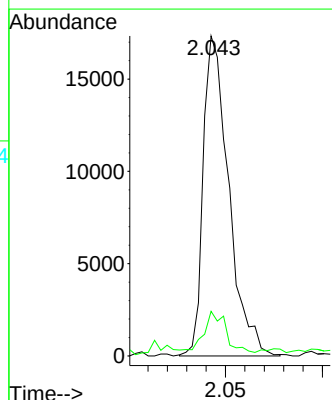
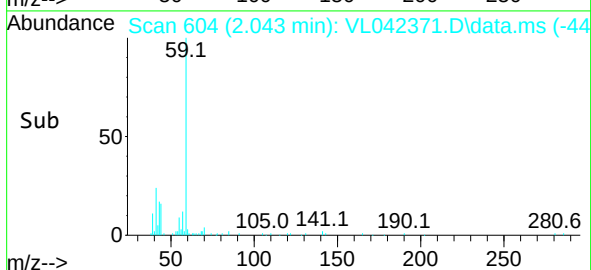
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

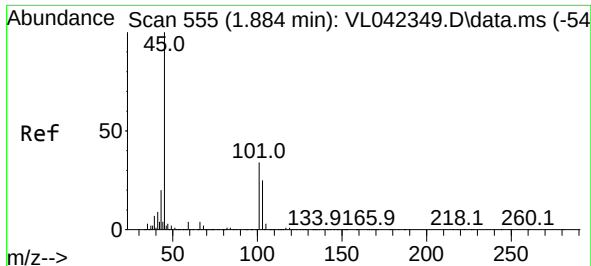


#17
tert-Butyl alcohol
Concen: 0.690 ppbv m
RT: 2.043 min Scan# 604
Delta R.T. 0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52



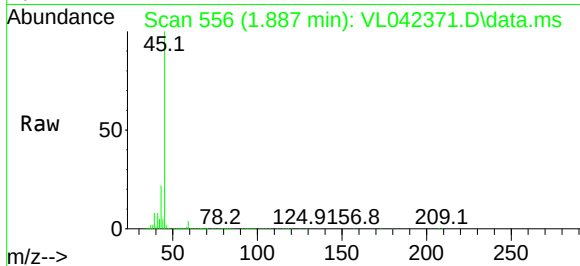
Tgt Ion: 59 Resp: 15845
Ion Ratio Lower Upper
59 100
57 38.3 8.7 13.1





#19
Isopropyl Alcohol
Concen: 34.527 ppbv
RT: 1.887 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

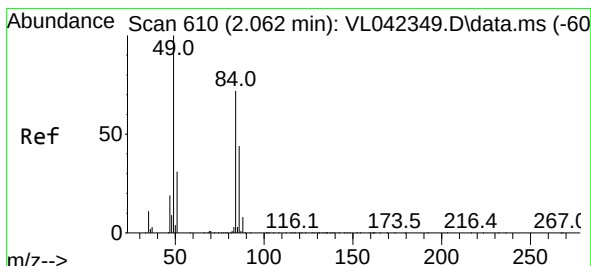
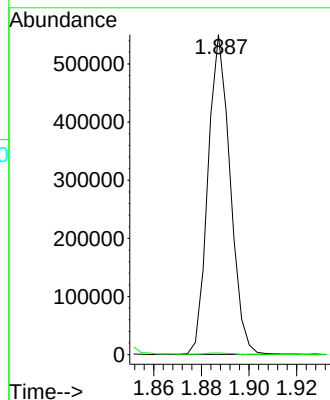
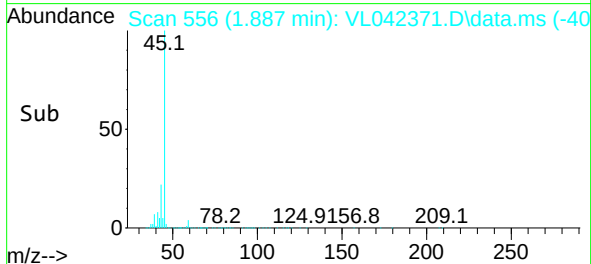
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025



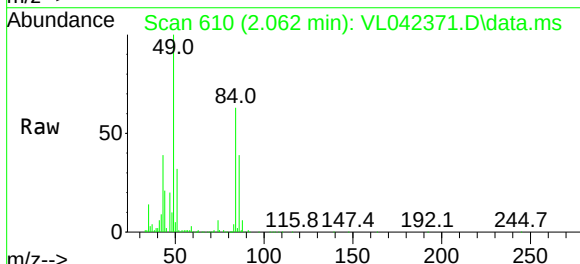
Tgt Ion: 45 Resp: 35528
Ion Ratio Lower Upper
45 100
58 0.0 34.5 51.7

Manual Integrations
APPROVED

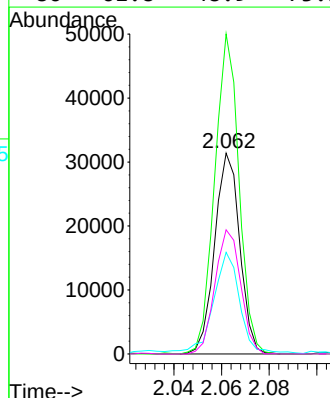
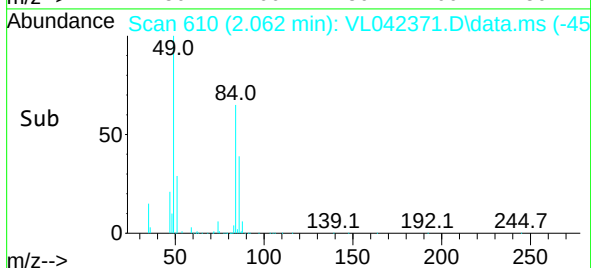
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

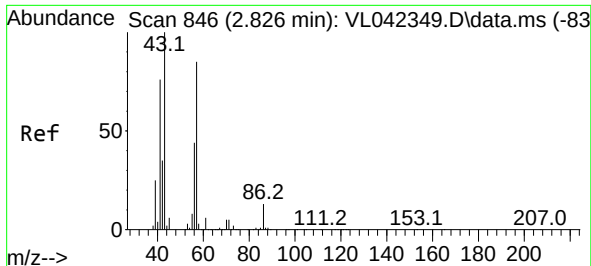


#20
Methylene Chloride
Concen: 3.166 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.000 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52



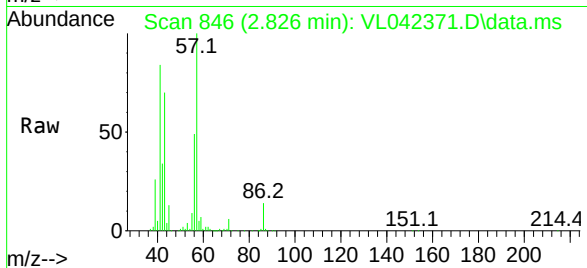
Tgt Ion: 84 Resp: 22966
Ion Ratio Lower Upper
84 100
49 159.3 111.6 167.4
51 49.6 35.1 52.7
86 61.8 48.9 73.3





#26
Hexane
Concen: 3.529 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.000 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

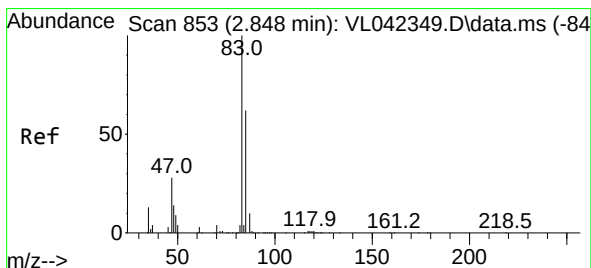
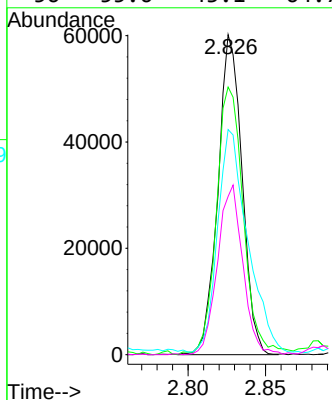
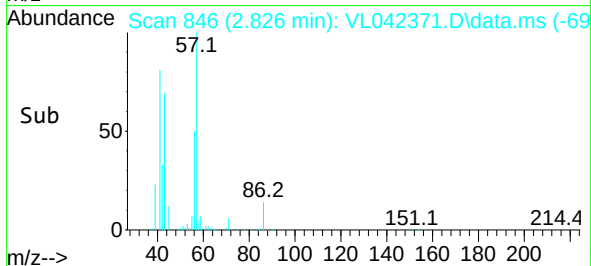
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025



Tgt Ion: 57 Resp: 6523
Ion Ratio Lower Upper
57 100
41 92.4 77.9 116.9
43 85.1 208.4 312.6
56 55.6 43.1 64.7

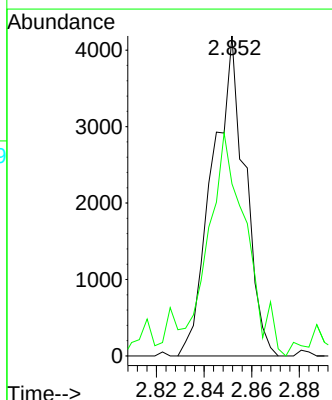
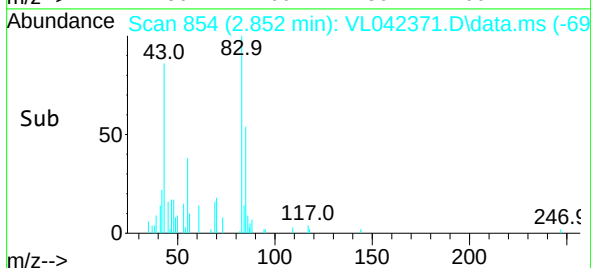
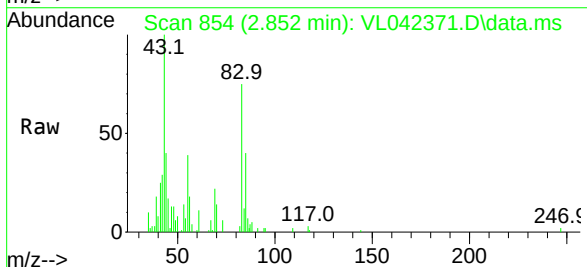
Manual Integrations
APPROVED

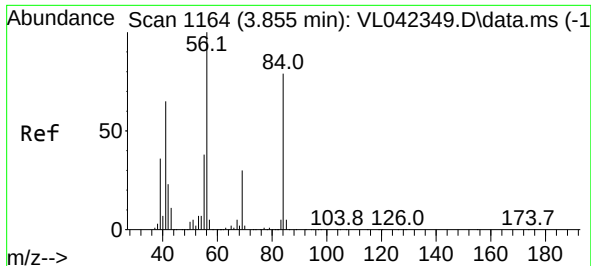
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#29
Chloroform
Concen: 0.153 ppbv
RT: 2.852 min Scan# 854
Delta R.T. 0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

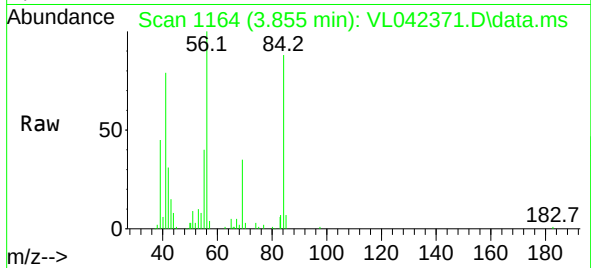
Tgt Ion: 83 Resp: 3991
Ion Ratio Lower Upper
83 100
85 51.6 50.0 75.0





#30
Cyclohexane
Concen: 1.109 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. -0.000 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

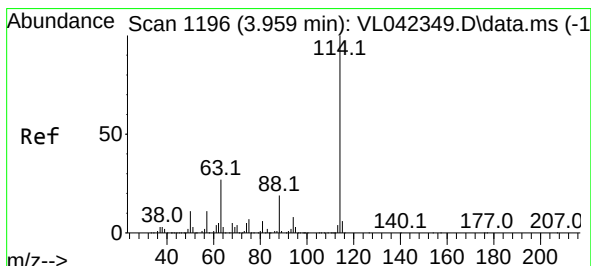
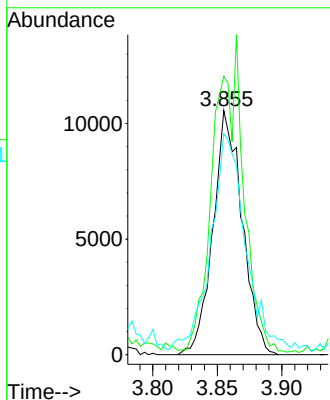
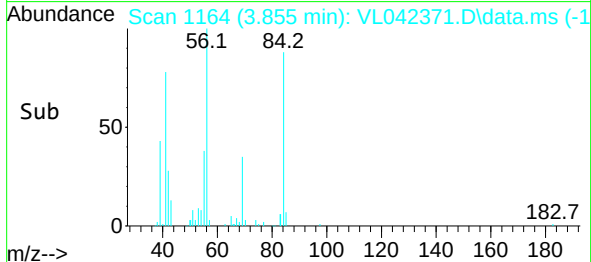
Instrument : MSVOA_L
ClientSampleId : IA-B2-3-03312025



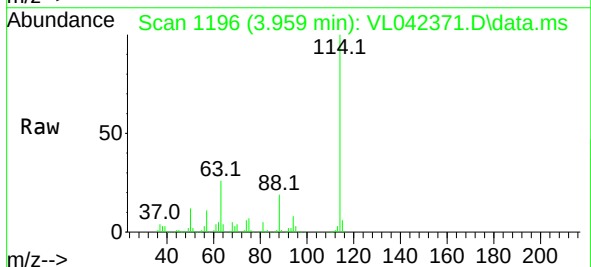
Tgt Ion: 84 Resp: 1657
Ion Ratio Lower Upper
84 100
56 136.5 101.0 151.4
41 109.0 67.4 101.0

Manual Integrations
APPROVED

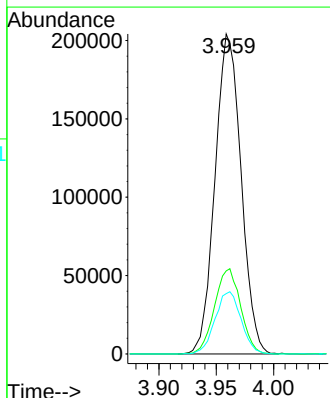
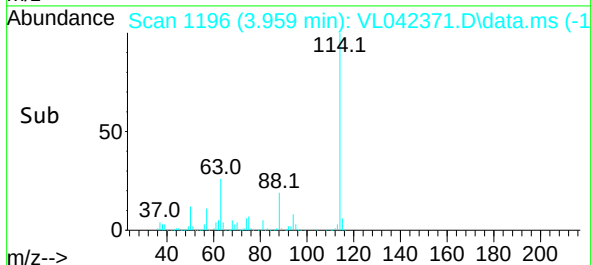
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

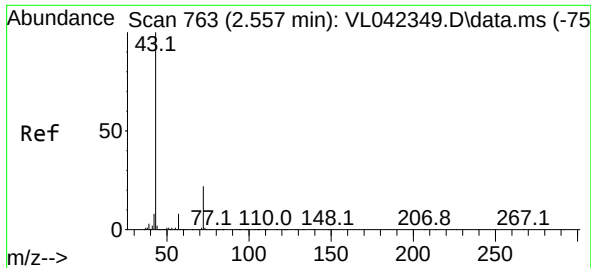


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. -0.000 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52



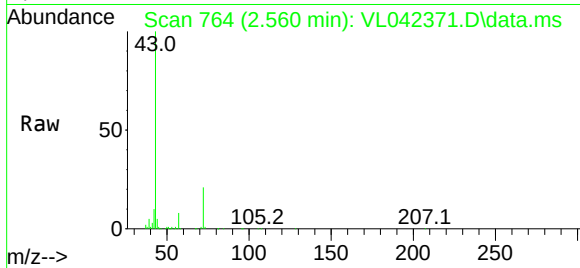
Tgt Ion:114 Resp: 322735
Ion Ratio Lower Upper
114 100
63 26.7 21.8 32.6
88 19.4 15.5 23.3





#34
2-Butanone
Concen: 2.117 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

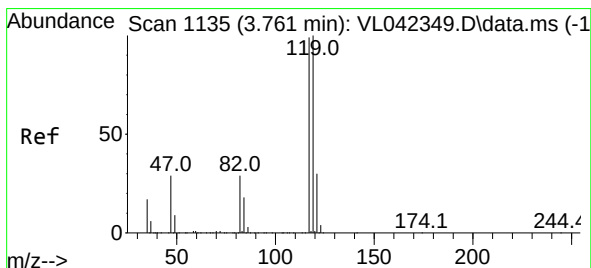
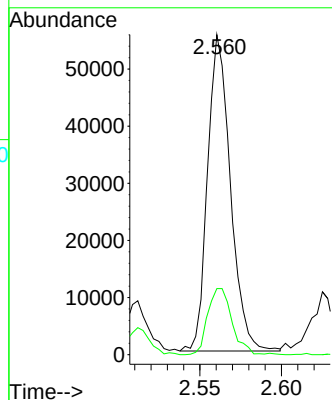
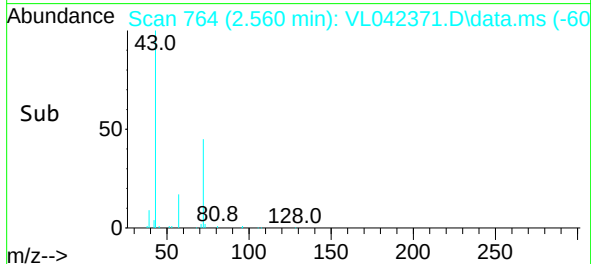
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025



Tgt Ion: 43 Resp: 5402
Ion Ratio Lower Upper
43 100
72 22.4 18.2 27.2

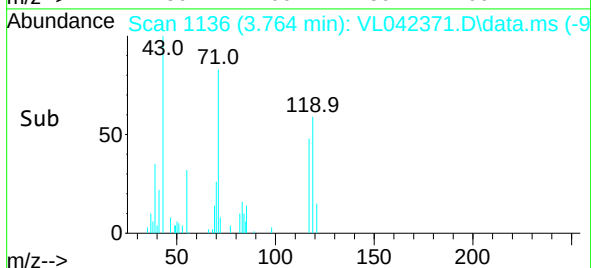
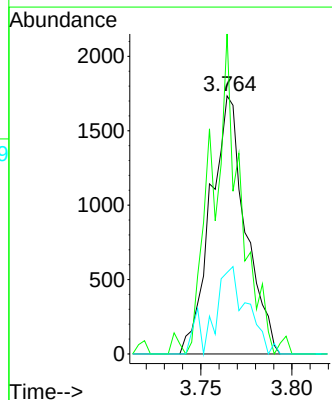
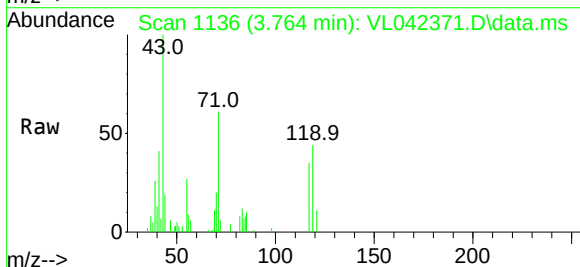
Manual Integrations
APPROVED

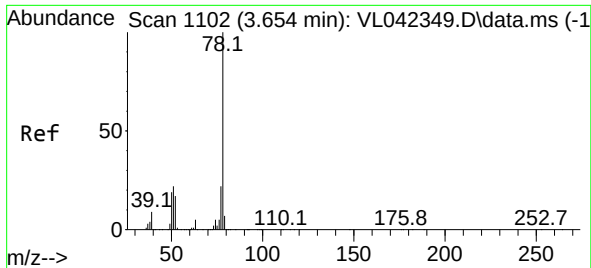
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#35
Carbon Tetrachloride
Concen: 0.079 ppbv
RT: 3.764 min Scan# 1136
Delta R.T. 0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion:117 Resp: 2319
Ion Ratio Lower Upper
117 100
119 120.2 80.5 120.7
121 31.5 24.2 36.2





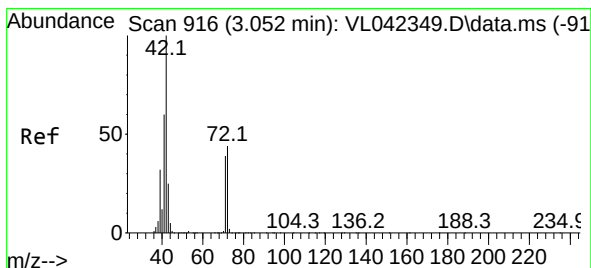
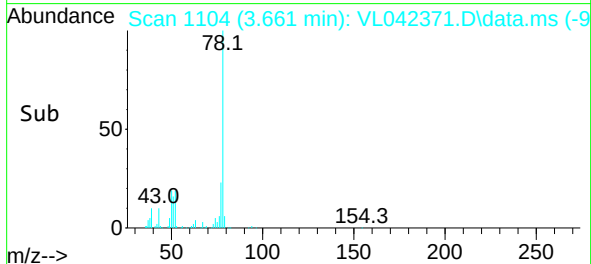
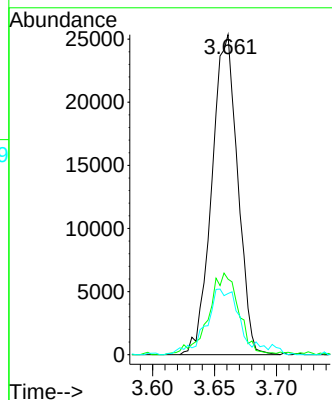
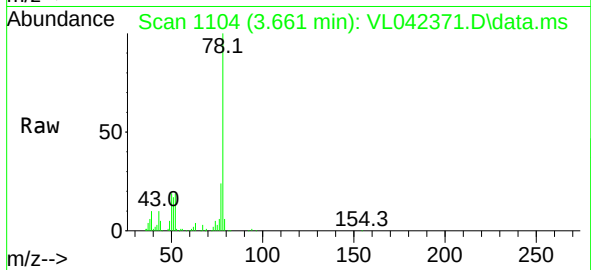
#36
Benzene
Concen: 1.060 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. 0.006 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Instrument : MSVOA_L
ClientSampleId : IA-B2-3-03312025

Tgt Ion: 78 Resp: 3690
Ion Ratio Lower Upper
78 100
77 22.8 17.4 26.0
50 17.0 15.5 23.3

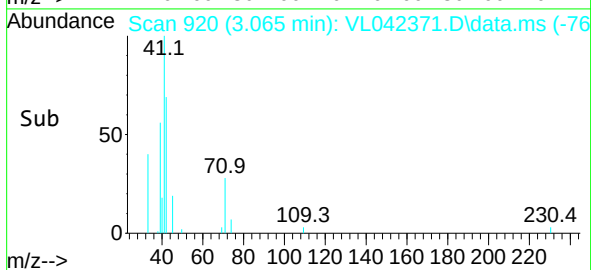
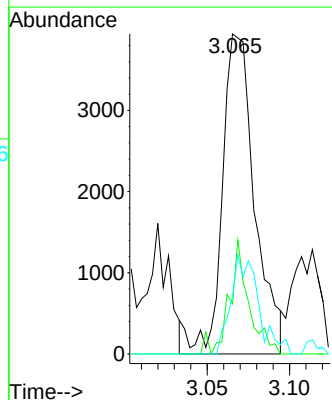
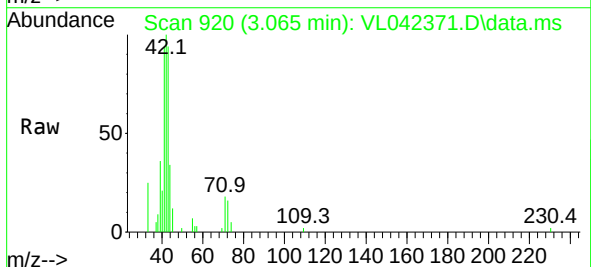
Manual Integrations
APPROVED

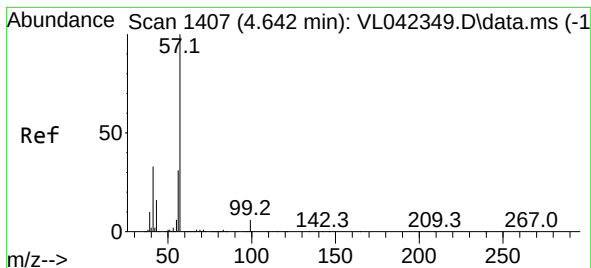
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#41
Tetrahydrofuran
Concen: 0.362 ppbv m
RT: 3.065 min Scan# 920
Delta R.T. 0.013 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion: 42 Resp: 5385
Ion Ratio Lower Upper
42 100
72 0.0 32.3 48.5#
71 0.0 31.4 47.2#





#44

2,2,4-Trimethylpentane

Concen: 9.437 ppbv

RT: 4.645 min Scan# 1407

Delta R.T. 0.003 min

Lab File: VL042371.D

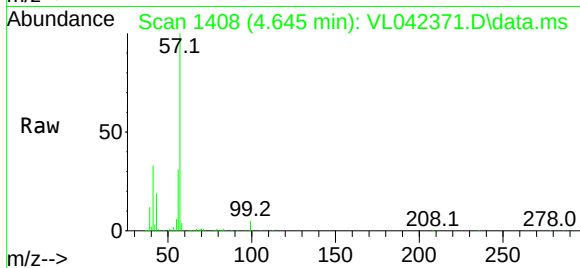
Acq: 17 Apr 2025 22:52

Instrument :

MSVOA_L

ClientSampleId :

IA-B2-3-03312025



Tgt Ion: 57 Resp: 56734

Ion Ratio Lower Upper

57 100

41 37.3 27.2 40.8

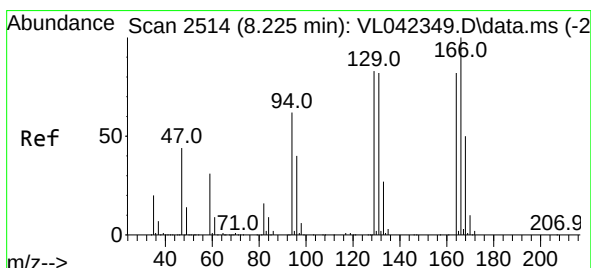
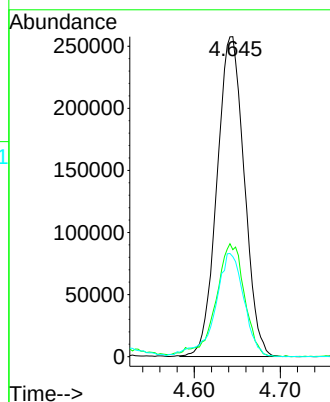
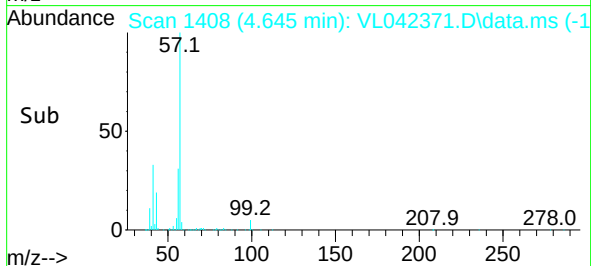
56 34.4 25.7 38.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#52

Tetrachloroethene

Concen: 0.144 ppbv m

RT: 8.228 min Scan# 2515

Delta R.T. 0.003 min

Lab File: VL042371.D

Acq: 17 Apr 2025 22:52

Tgt Ion:164 Resp: 1944

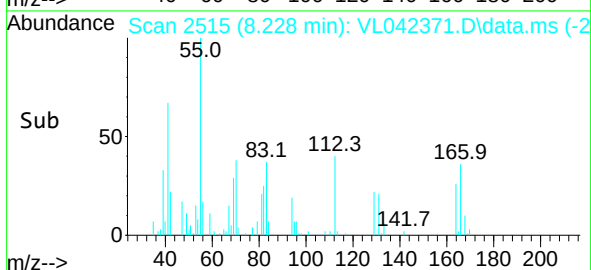
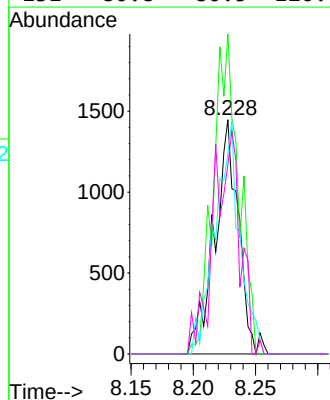
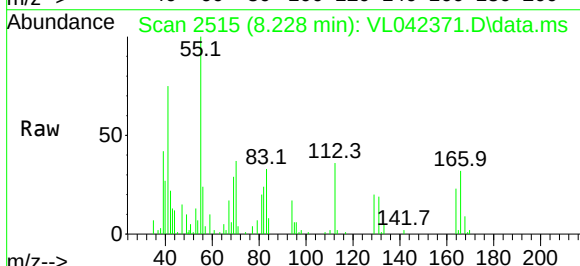
Ion Ratio Lower Upper

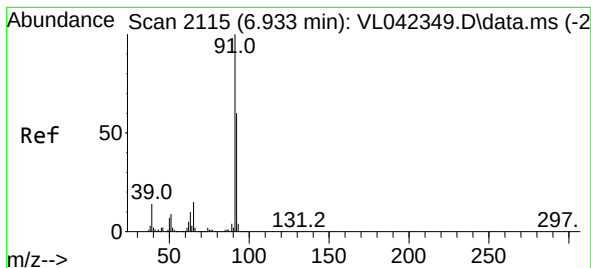
164 100

166 136.6 98.2 147.2

129 85.3 81.8 122.8

131 80.8 80.5 120.7





#53

Toluene

Concen: 22.290 ppbv

RT: 6.936 min Scan# 2115

Delta R.T. 0.003 min

Lab File: VL042371.D

Acq: 17 Apr 2025 22:52

Instrument :

MSVOA_L

ClientSampleId :

IA-B2-3-03312025

Tgt Ion: 91 Resp: 93113

Ion Ratio Lower Upper

91 100

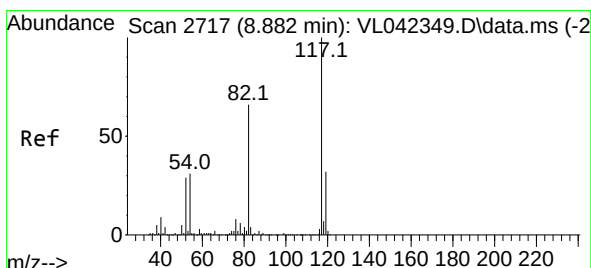
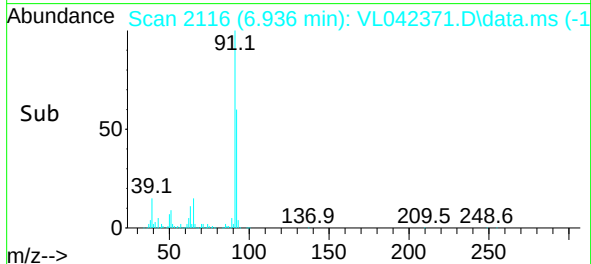
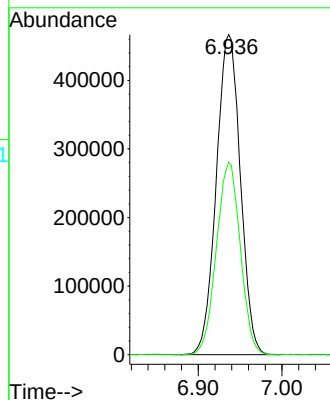
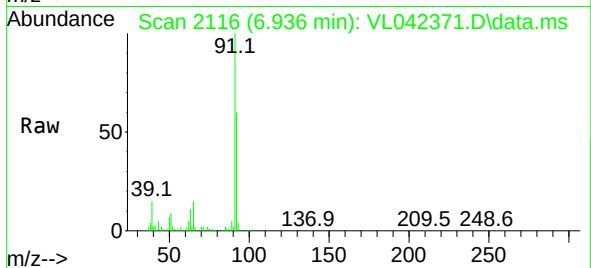
92 59.7 48.2 72.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.882 min Scan# 2717

Delta R.T. -0.000 min

Lab File: VL042371.D

Acq: 17 Apr 2025 22:52

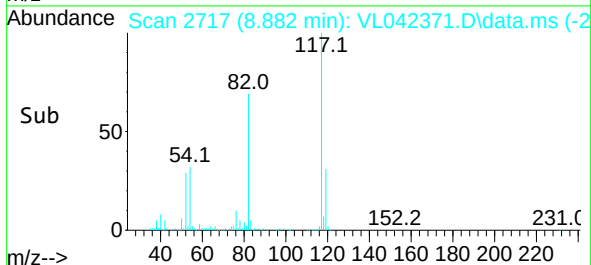
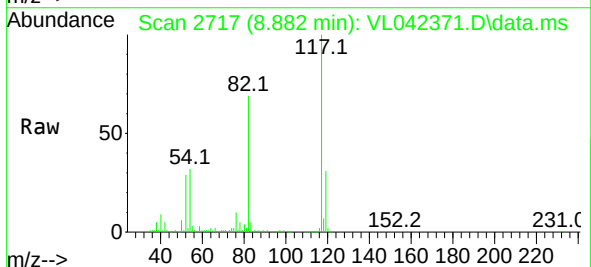
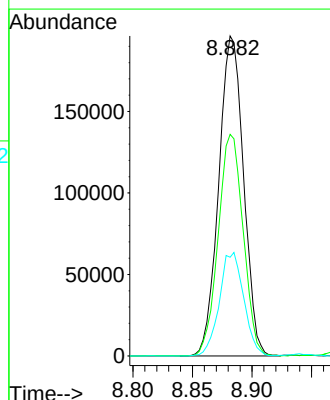
Tgt Ion:117 Resp: 284478

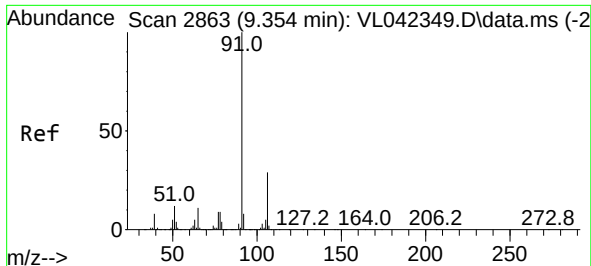
Ion Ratio Lower Upper

117 100

82 69.5 57.8 86.6

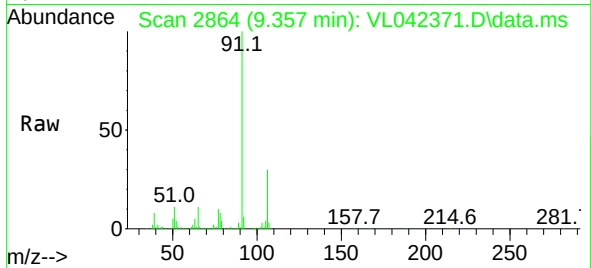
119 31.9 25.2 37.8





#58
Ethyl Benzene
Concen: 4.253 ppbv
RT: 9.357 min Scan# 218
Delta R.T. 0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

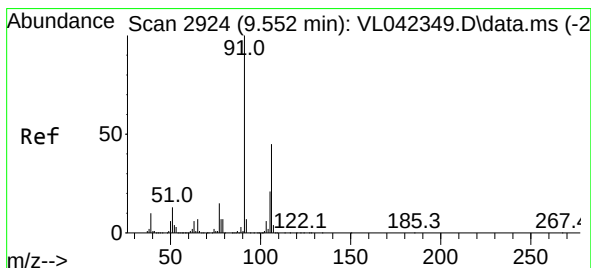
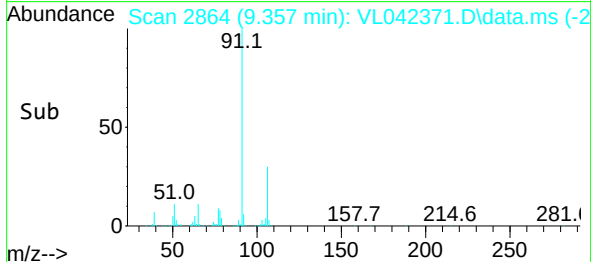
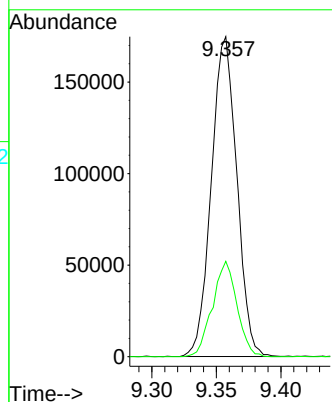
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025



Tgt Ion: 91 Resp: 239708
Ion Ratio Lower Upper
91 100
106 29.8 23.0 34.4

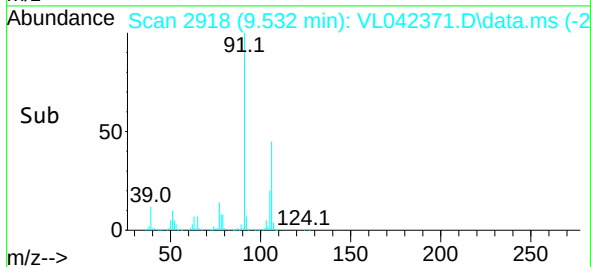
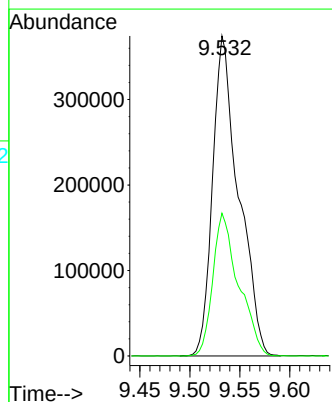
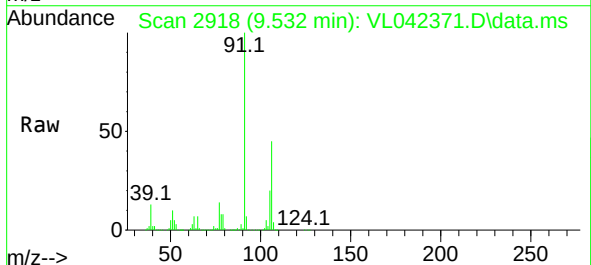
Manual Integrations
APPROVED

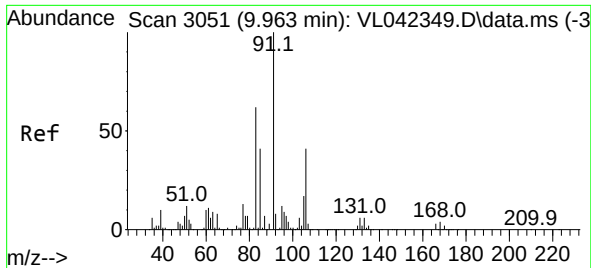
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#59
m/p-Xylene
Concen: 14.937 ppbv
RT: 9.532 min Scan# 2918
Delta R.T. -0.019 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

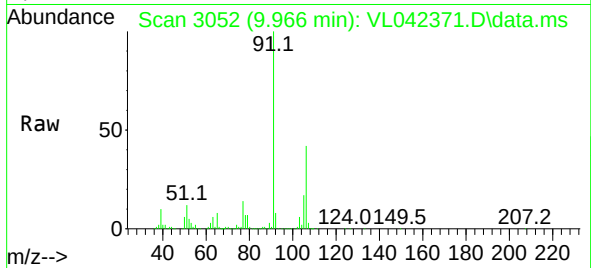
Tgt Ion: 91 Resp: 678219
Ion Ratio Lower Upper
91 100
106 44.2 35.4 53.2





#60
o-Xylene
Concen: 5.817 ppbv
RT: 9.966 min Scan# 3051
Delta R.T. 0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

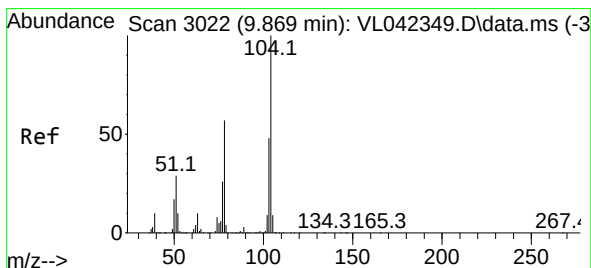
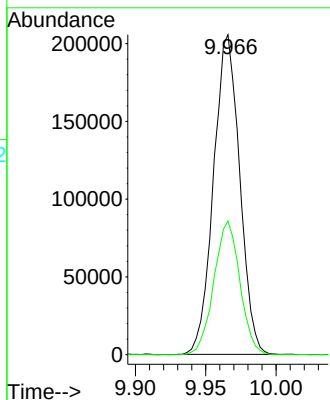
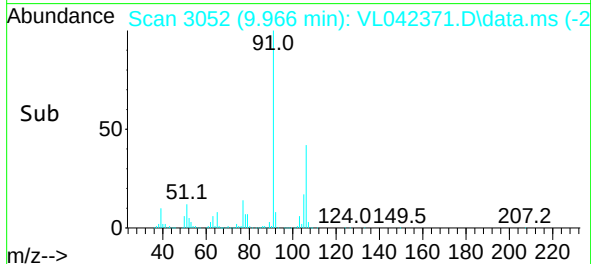
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025



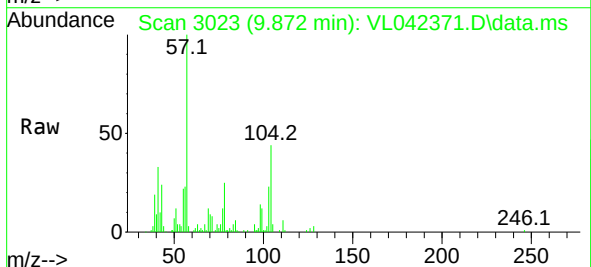
Tgt Ion: 91 Resp: 26596
Ion Ratio Lower Upper
91 100
106 41.5 21.1 63.4

Manual Integrations
APPROVED

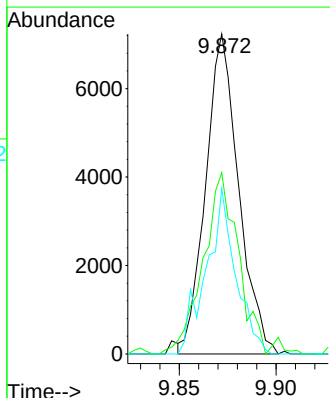
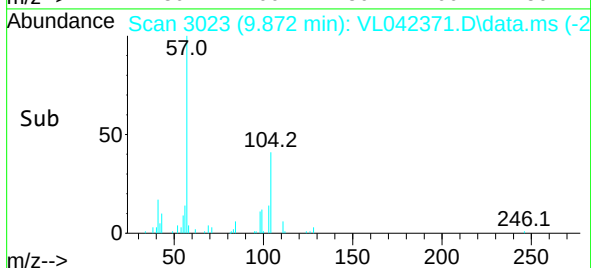
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

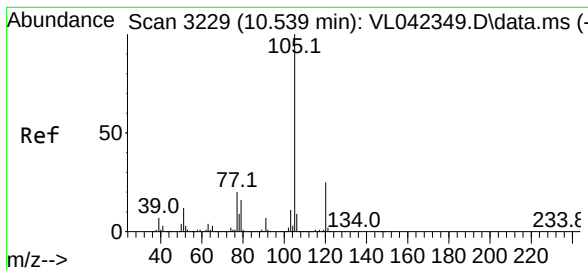


#61
Styrene
Concen: 0.392 ppbv
RT: 9.872 min Scan# 3023
Delta R.T. 0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52



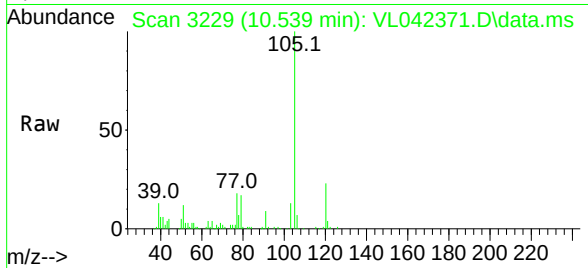
Tgt Ion:104 Resp: 8564
Ion Ratio Lower Upper
104 100
78 62.3 44.6 66.8
103 46.3 37.4 56.0





#62
Isopropylbenzene
Concen: 0.391 ppbv
RT: 10.539 min Scan# 31
Delta R.T. 0.000 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

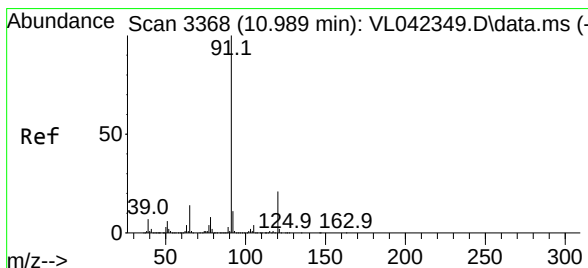
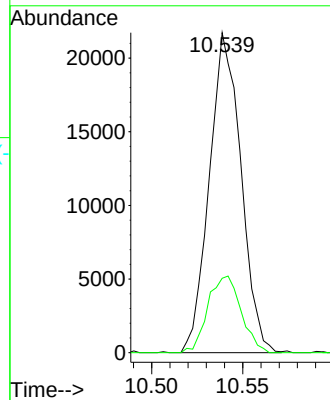
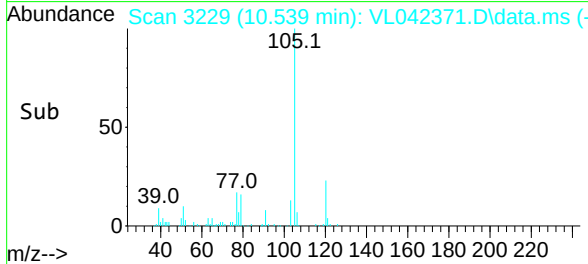
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025



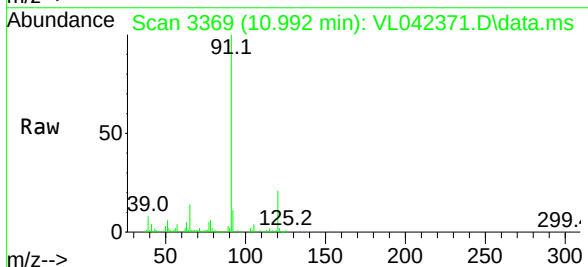
Tgt Ion:105 Resp: 26210
Ion Ratio Lower Upper
105 100
120 25.1 19.8 29.8

Manual Integrations
APPROVED

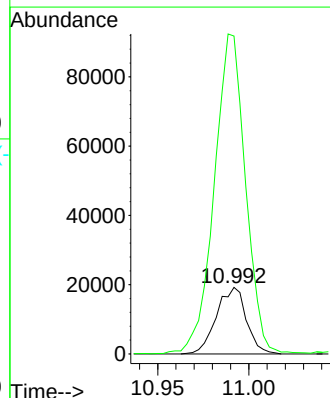
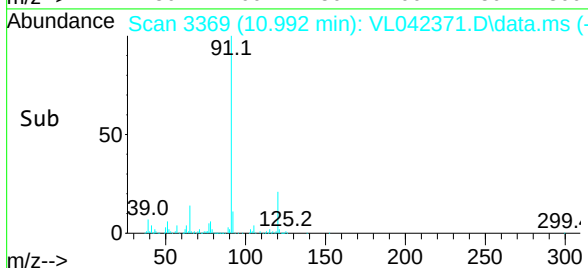
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

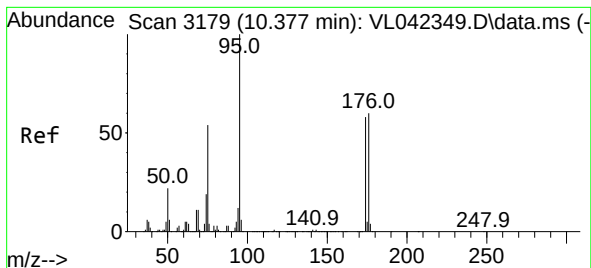


#64
n-propylbenzene
Concen: 1.296 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. 0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52



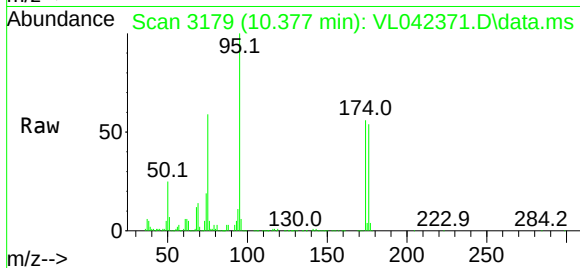
Tgt Ion:120 Resp: 21875
Ion Ratio Lower Upper
120 100
91 503.1 392.4 588.6





#68
1-Bromo-4-Fluorobenzene
Concen: 10.179 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.000 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

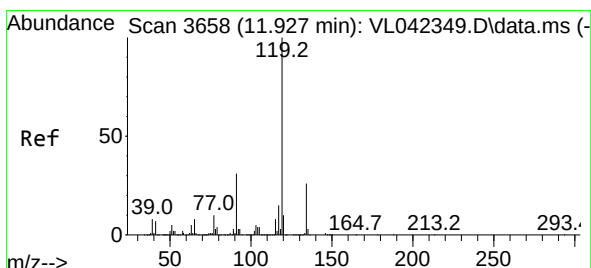
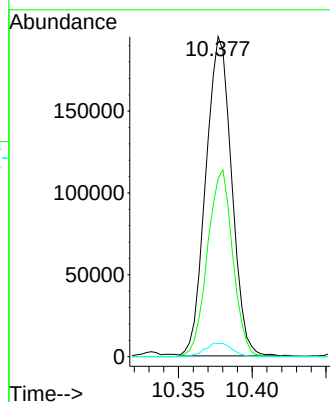
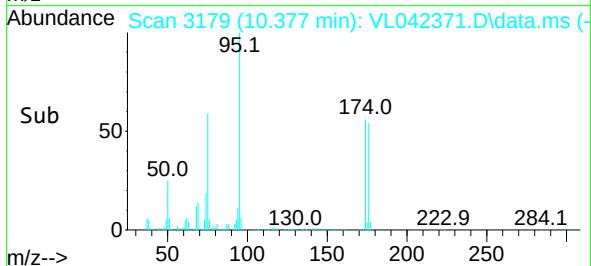
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025



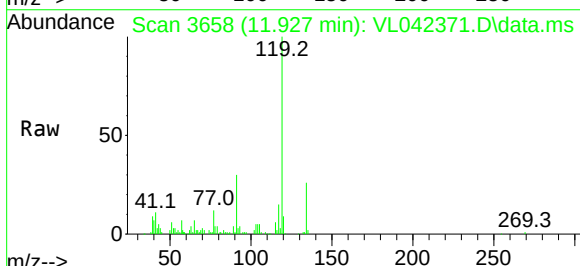
Tgt Ion: 95 Resp: 237949
Ion Ratio Lower Upper
95 100
174 57.3 48.5 72.7
175 4.5 3.7 5.5

Manual Integrations
APPROVED

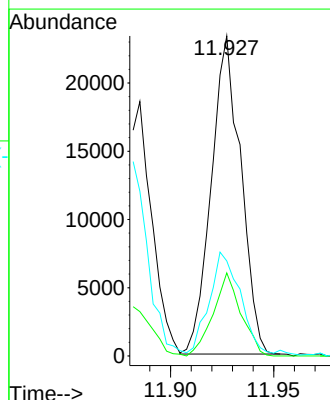
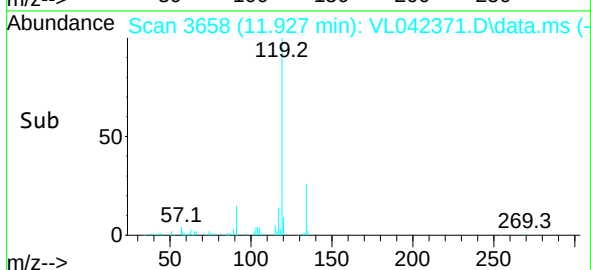
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

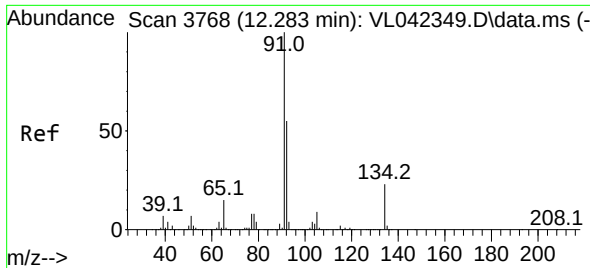


#69
p-Isopropyltoluene
Concen: 0.311 ppbv
RT: 11.927 min Scan# 3658
Delta R.T. 0.000 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52



Tgt Ion:119 Resp: 23201
Ion Ratio Lower Upper
119 100
134 24.5 20.0 30.0
91 36.2 24.4 36.6





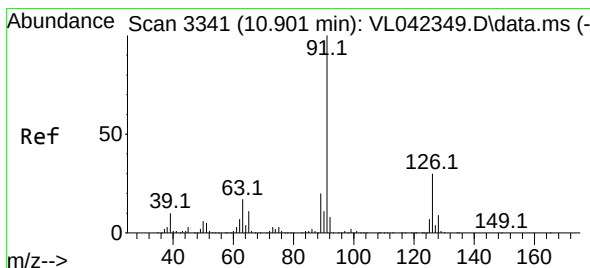
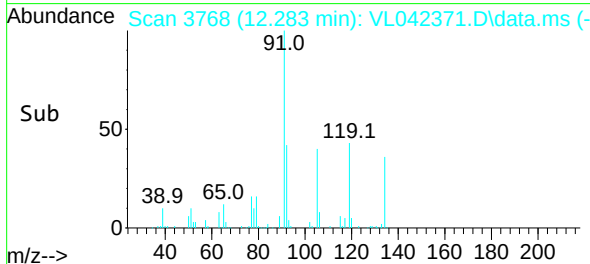
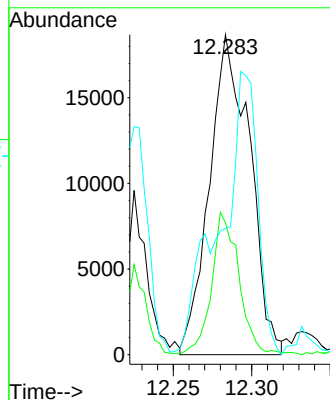
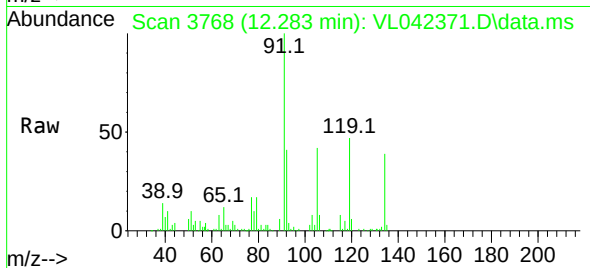
#70
n-Butylbenzene
Concen: 0.431 ppbv m
RT: 12.283 min Scan# 3768
Delta R.T. -0.000 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

Tgt Ion: 91 Resp: 33438
Ion Ratio Lower Upper
91 100
92 30.8 44.2 66.4
134 0.0 18.2 27.4

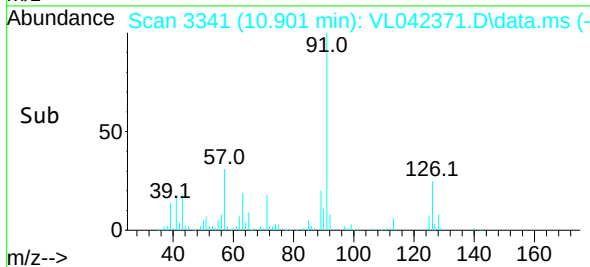
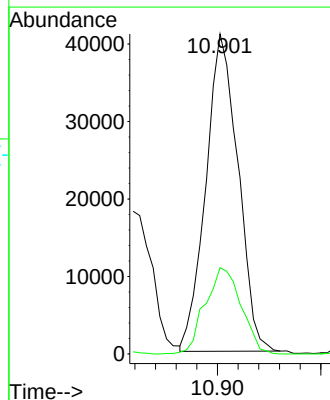
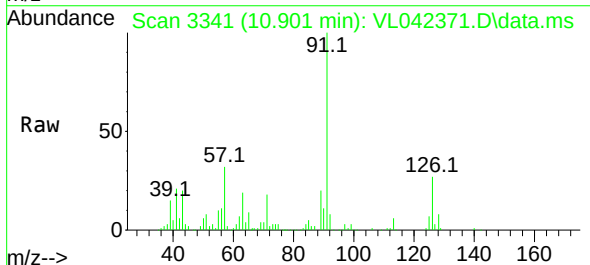
Manual Integrations
APPROVED

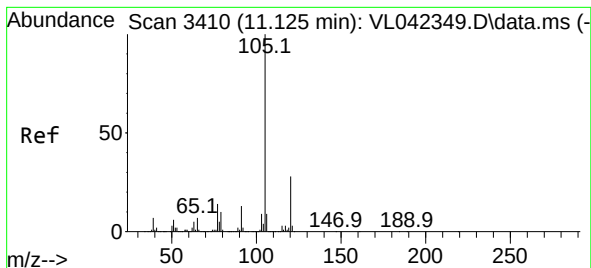
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#71
2-Chlorotoluene
Concen: 0.843 ppbv
RT: 10.901 min Scan# 3341
Delta R.T. 0.000 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

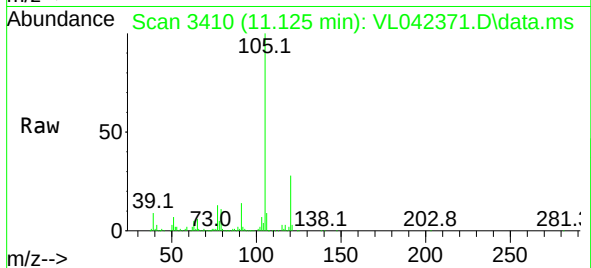
Tgt Ion: 91 Resp: 44364
Ion Ratio Lower Upper
91 100
126 30.4 11.4 45.4





#72
4-Ethyltoluene
Concen: 2.108 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. -0.000 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

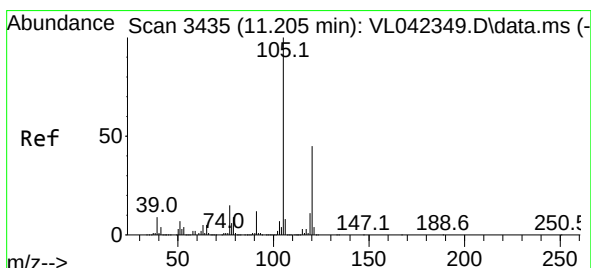
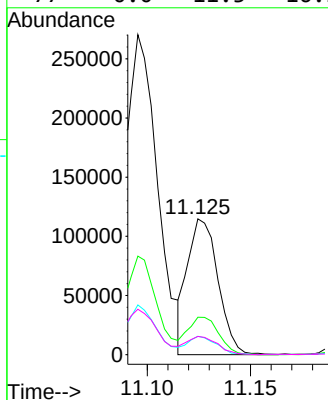
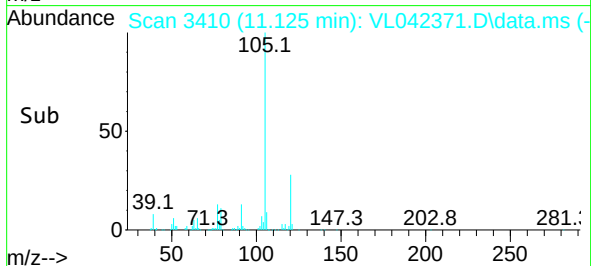
Instrument : MSVOA_L
ClientSampleId : IA-B2-3-03312025



Tgt Ion:105 Resp: 117824
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

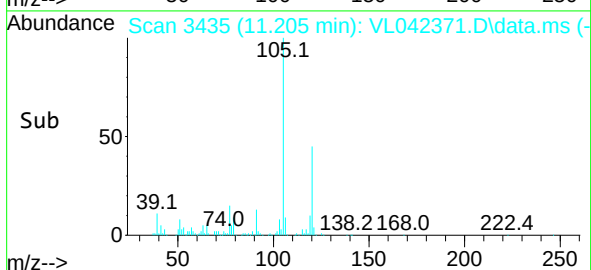
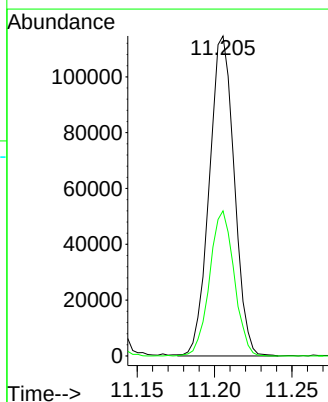
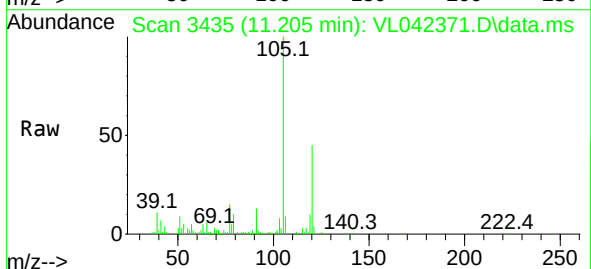
Manual Integrations
APPROVED

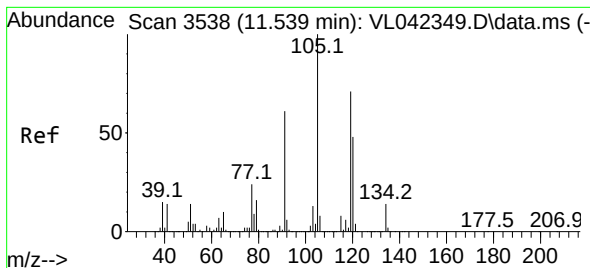
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#73
1,3,5-Trimethylbenzene
Concen: 2.599 ppbv
RT: 11.205 min Scan# 3435
Delta R.T. -0.000 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion:105 Resp: 128254
Ion Ratio Lower Upper
105 100
120 45.4 35.6 53.4





#74

1,2,4-Trimethylbenzene

Concen: 7.213 ppbv

RT: 11.536 min Scan# 3538

Delta R.T. -0.003 min

Lab File: VL042371.D

Acq: 17 Apr 2025 22:52

Instrument :

MSVOA_L

ClientSampleId :

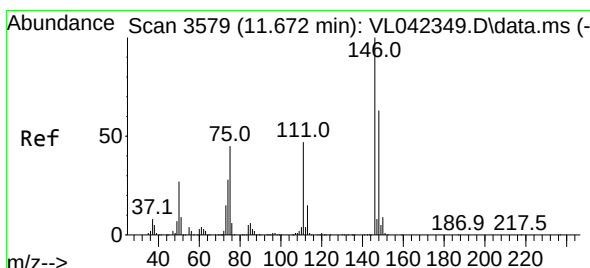
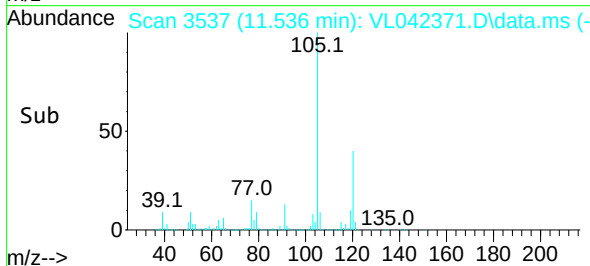
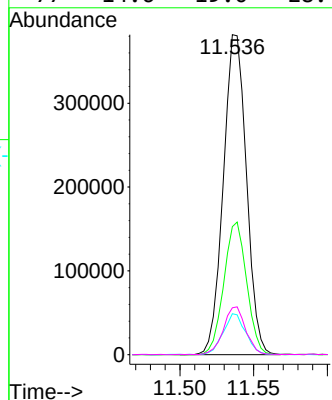
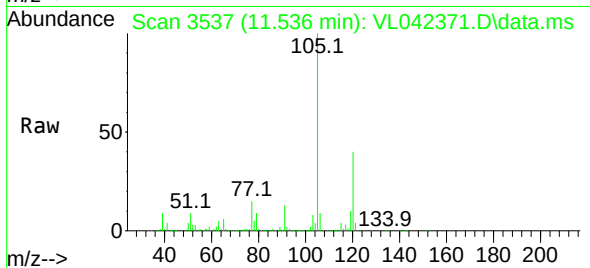
IA-B2-3-03312025

Tgt Ion:105	Resp:	41575
Ion Ratio	Lower	Upper
105	100	
120	40.0	38.1 57.1
91	12.7	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



#76

1,4-Dichlorobenzene

Concen: 0.204 ppbv

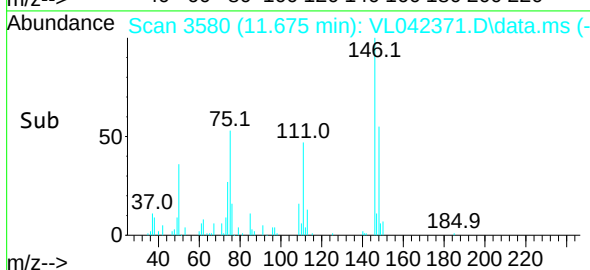
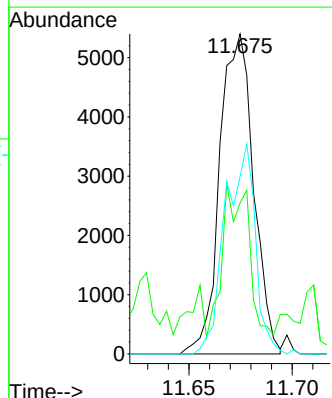
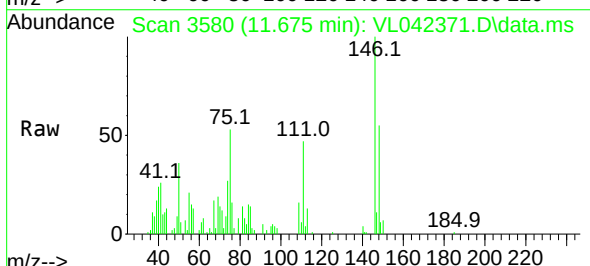
RT: 11.675 min Scan# 3580

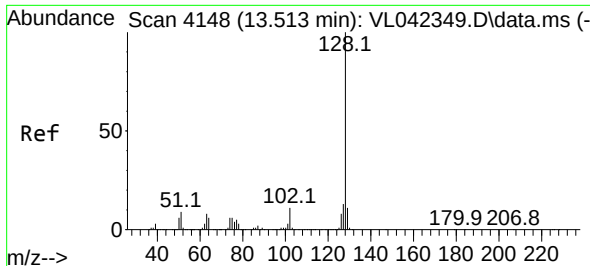
Delta R.T. 0.003 min

Lab File: VL042371.D

Acq: 17 Apr 2025 22:52

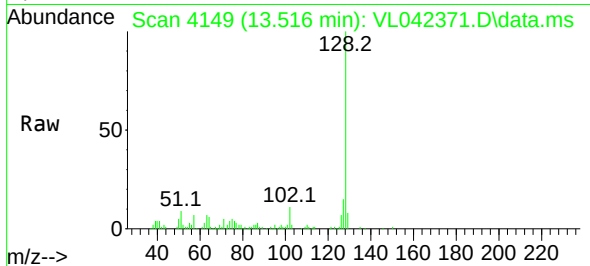
Tgt Ion:146	Resp:	6136
Ion Ratio	Lower	Upper
146	100	
111	71.0	24.2 72.6
148	58.8	32.1 96.5





#79
Naphthalene
Concen: 0.454 ppbv
RT: 13.516 min Scan# 4148
Delta R.T. 0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

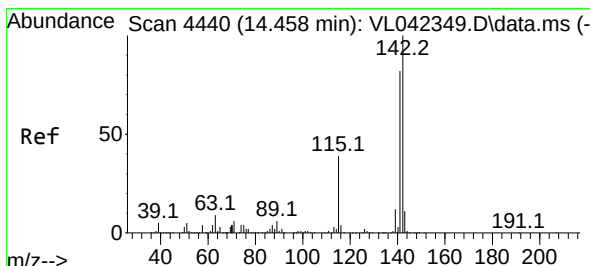
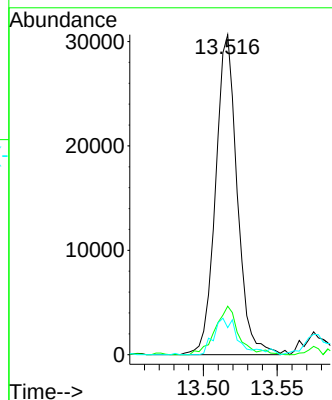
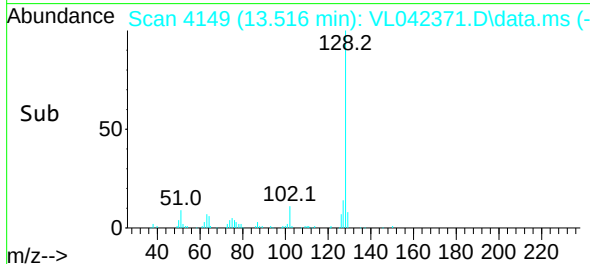
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025



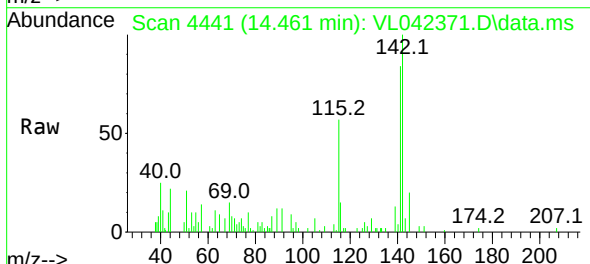
Tgt Ion:128 Resp: 3128
Ion Ratio Lower Upper
128 100
127 15.2 10.6 15.8
129 8.5 8.6 12.8

Manual Integrations
APPROVED

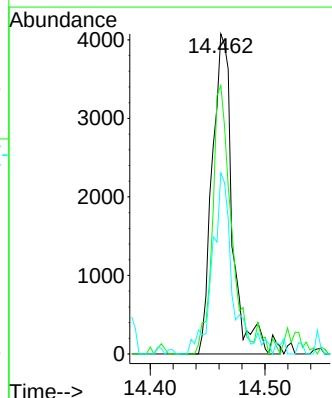
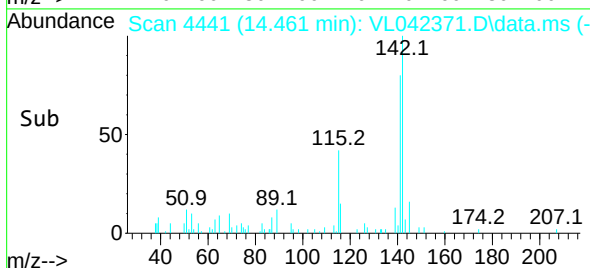
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#80
Naphthalene,2-methyl-
Concen: 0.128 ppbv
RT: 14.461 min Scan# 4441
Delta R.T. 0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52



Tgt Ion:142 Resp: 5013
Ion Ratio Lower Upper
142 100
141 80.6 66.8 100.2
115 60.7 33.4 50.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042371.D
 Acq On : 17 Apr 2025 22:52
 Operator : SY/MD
 Sample : Q1726-06
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-3-03312025

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: VL042371.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	4134196	4610486	66.29%	11.124%
2	1.466	423	426	429	rBV	274948	129904	1.87%	0.313%
3	1.489	429	433	435	rBV	355726	147060	2.11%	0.355%
4	1.528	441	445	451	rBV	674218	364646	5.24%	0.880%
5	1.560	451	455	459	rBV	1047250	532995	7.66%	1.286%
6	1.622	470	474	478	rVB	767173	390922	5.62%	0.943%
7	1.722	500	505	511	rVB	1252293	741224	10.66%	1.788%
8	1.835	535	540	550	rBV	7915808	6955429	100.00%	16.781%
9	1.887	550	556	561	rBV	870553	566212	8.14%	1.366%
10	2.062	600	610	614	rBV3	181276	177074	2.55%	0.427%
11	2.276	670	676	686	rVB	275266	243781	3.50%	0.588%
12	2.473	733	737	744	rVB2	162448	165794	2.38%	0.400%
13	2.560	759	764	773	rVB	87512	85343	1.23%	0.206%
14	2.625	775	784	793	rVB	121844	125733	1.81%	0.303%
15	2.790	827	835	841	rBV	415801	434667	6.25%	1.049%
16	2.826	841	846	859	rVB2	263442	328484	4.72%	0.793%
17	3.230	960	971	980	rVB2	130286	187052	2.69%	0.451%
18	3.285	980	988	1000	rVB3	78984	118337	1.70%	0.286%
19	3.661	1087	1104	1108	rBV4	64509	143641	2.07%	0.347%
20	3.690	1108	1113	1127	rVB	106251	159278	2.29%	0.384%
21	3.855	1154	1164	1177	rBV4	61079	110321	1.59%	0.266%
22	3.959	1185	1196	1208	rBV	540912	871230	12.53%	2.102%
23	4.052	1210	1225	1233	rVV2	202421	385722	5.55%	0.931%
24	4.098	1233	1239	1251	rVB3	97998	166572	2.39%	0.402%
25	4.273	1280	1293	1306	rVB4	218048	431196	6.20%	1.040%
26	4.444	1334	1346	1356	rBV4	47588	91431	1.31%	0.221%
27	4.642	1385	1407	1426	rVB2	606265	1411579	20.29%	3.406%
28	4.981	1500	1512	1526	rVB3	178573	342672	4.93%	0.827%
29	5.308	1597	1613	1631	rBV3	35342	103444	1.49%	0.250%
30	5.668	1703	1724	1744	rVB6	123206	362805	5.22%	0.875%
31	6.208	1877	1891	1901	rBV6	75037	199008	2.86%	0.480%
32	6.279	1912	1913	1930	rVB	88163	90902	1.31%	0.219%
33	6.830	2065	2083	2099	rVB3	275051	681902	9.80%	1.645%
34	6.936	2099	2116	2136	rVV2	1294318	2973049	42.74%	7.173%
35	7.189	2177	2194	2206	rBV2	98521	212387	3.05%	0.512%
36	7.377	2235	2252	2261	rBV5	135680	278892	4.01%	0.673%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042371.D
 Acq On : 17 Apr 2025 22:52
 Operator : SY/MD
 Sample : Q1726-06
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-3-03312025

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	7.597	2310	2320	2338	rBV8	139506	421885	6.07%	1.018%
38	7.687	2338	2348	2364	rVB5	94112	196046	2.82%	0.473%
39	7.894	2400	2412	2432	rBV3	140056	328771	4.73%	0.793%
40	8.137	2476	2487	2499	rBV8	54415	108820	1.56%	0.263%
41	8.305	2523	2539	2556	rVB6	231569	517768	7.44%	1.249%
42	8.882	2703	2717	2728	rBV	716468	1097655	15.78%	2.648%
43	8.940	2728	2735	2741	rVV2	77015	125155	1.80%	0.302%
44	8.985	2741	2749	2764	rVB8	86665	200207	2.88%	0.483%
45	9.147	2791	2799	2813	rBV2	64480	106616	1.53%	0.257%
46	9.357	2853	2864	2877	rBV	411535	626638	9.01%	1.512%
47	9.532	2908	2918	2937	rVB	1073215	1994276	28.67%	4.812%
48	9.733	2966	2980	2992	rVB7	118512	263965	3.80%	0.637%
49	9.859	3007	3019	3027	rBV4	123443	200257	2.88%	0.483%
50	9.966	3037	3052	3062	rBV	586615	821124	11.81%	1.981%
51	10.377	3161	3179	3189	rBV2	903472	1364287	19.61%	3.292%
52	10.539	3221	3229	3236	rBV	60340	81053	1.17%	0.196%
53	10.804	3306	3311	3320	rBV5	68906	87517	1.26%	0.211%
54	10.859	3320	3328	3334	rVV	195322	238389	3.43%	0.575%
55	10.901	3334	3341	3353	rVB2	174323	220603	3.17%	0.532%
56	10.992	3353	3369	3383	rBV2	208628	309403	4.45%	0.746%
57	11.095	3391	3401	3407	rBV	730884	824374	11.85%	1.989%
58	11.125	3407	3410	3420	rVB	300079	310102	4.46%	0.748%
59	11.205	3420	3435	3443	rBV	372870	447940	6.44%	1.081%
60	11.312	3463	3468	3471	rBV4	89548	97382	1.40%	0.235%
61	11.338	3471	3476	3483	rVB	248075	270524	3.89%	0.653%
62	11.536	3529	3537	3550	rBV	1105993	1235893	17.77%	2.982%
63	11.756	3598	3605	3607	rBV2	157102	163930	2.36%	0.396%
64	11.775	3607	3611	3623	rVB	320403	386785	5.56%	0.933%
65	11.882	3637	3644	3652	rVB2	283642	306988	4.41%	0.741%
66	11.927	3652	3658	3669	rBV	61702	81152	1.17%	0.196%
67	12.021	3678	3687	3690	rBV2	169022	185430	2.67%	0.447%
68	12.044	3690	3694	3701	rVV3	182889	195998	2.82%	0.473%
69	12.089	3701	3708	3717	rVB3	68367	92995	1.34%	0.224%
70	12.225	3745	3750	3757	rVB2	232420	240539	3.46%	0.580%
71	12.270	3757	3764	3768	rBV3	89236	112656	1.62%	0.272%
72	12.296	3768	3772	3778	rVB2	151298	151476	2.18%	0.365%
73	12.406	3799	3806	3811	rBV2	77262	82288	1.18%	0.199%
74	12.442	3811	3817	3823	rVV	83883	81868	1.18%	0.198%
75	12.507	3832	3837	3842	rBV3	135170	180313	2.59%	0.435%
76	12.545	3846	3849	3855	rVB3	85648	84565	1.22%	0.204%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042371.D
Acq On : 17 Apr 2025 22:52
Operator : SY/MD
Sample : Q1726-06
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

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	12.587	3855	3862	3875	rBV2	200079	276320	3.97%	0.667%
78	12.655	3875	3883	3894	rBV7	61171	112749	1.62%	0.272%
79	12.830	3932	3937	3942	rVB2	152238	143379	2.06%	0.346%
80	12.921	3956	3965	3970	rBV	95568	108439	1.56%	0.262%
81	12.953	3970	3975	3983	rVB2	126894	133643	1.92%	0.322%
82	13.128	4025	4029	4036	rVB2	80477	79714	1.15%	0.192%
83	13.228	4054	4060	4066	rBV2	102664	125661	1.81%	0.303%
84	13.335	4087	4093	4102	rBV9	51672	82252	1.18%	0.198%
85	13.387	4102	4109	4116	rVB3	120153	138551	1.99%	0.334%
86	13.662	4189	4194	4206	rVB6	50970	81716	1.17%	0.197%

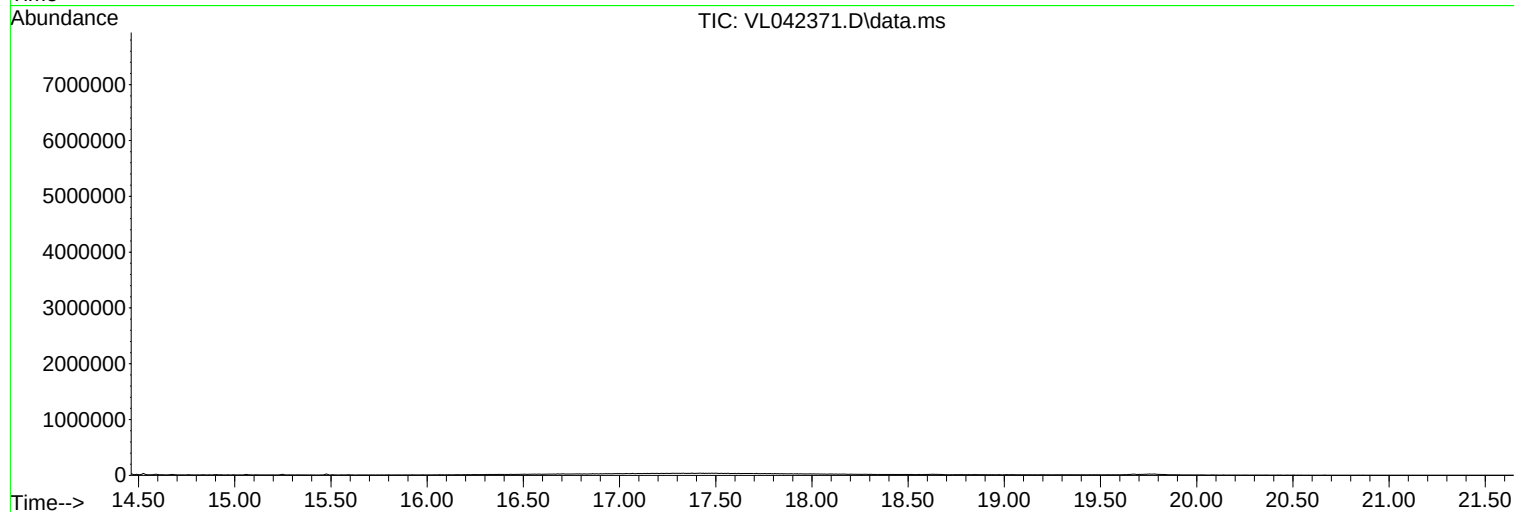
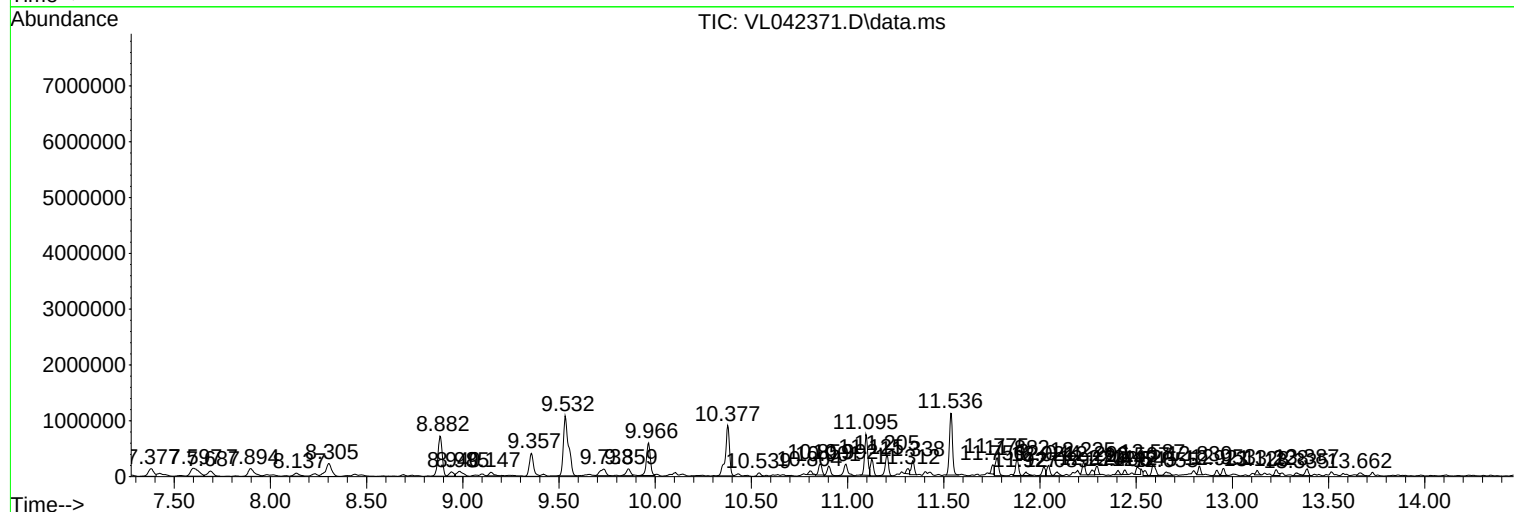
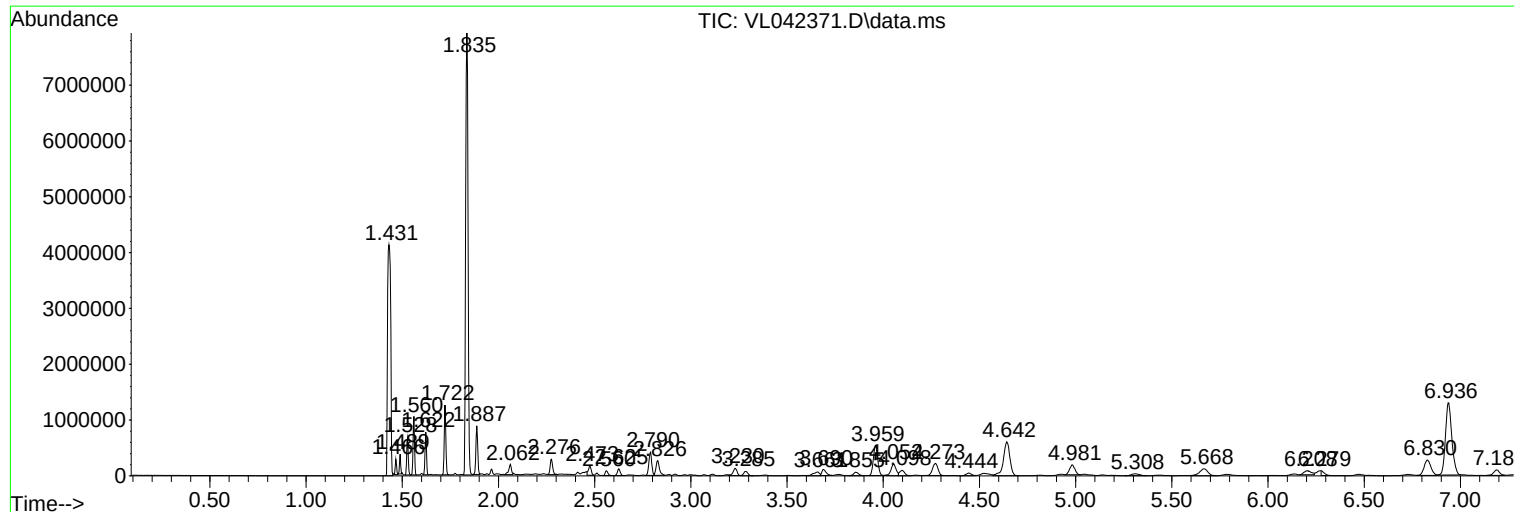
Sum of corrected areas: 41447231

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042371.D
Acq On : 17 Apr 2025 22:52
Operator : SY/MD
Sample : Q1726-06
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

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 : VL042371.D
Acq On : 17 Apr 2025 22:52
Operator : SY/MD
Sample : Q1726-06
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

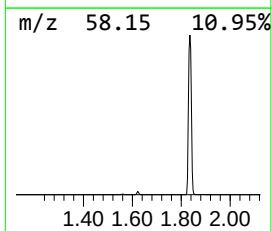
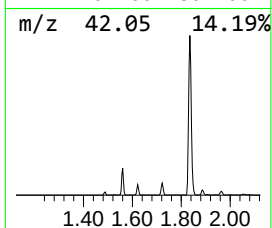
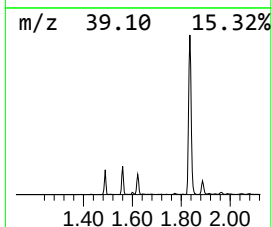
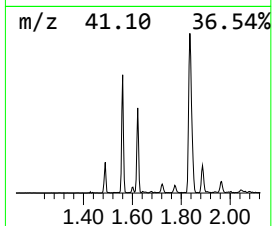
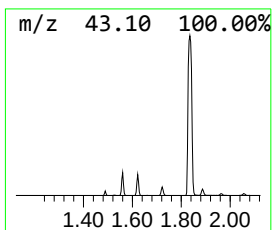
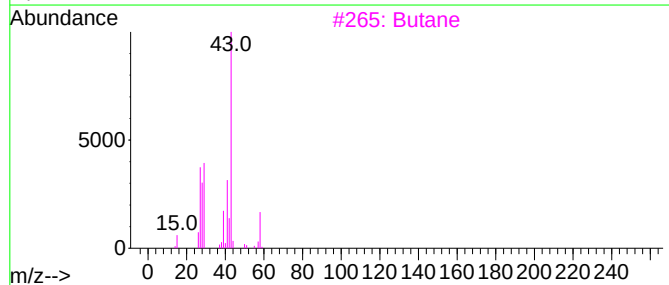
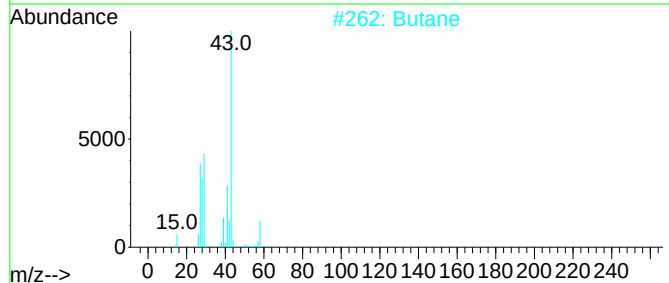
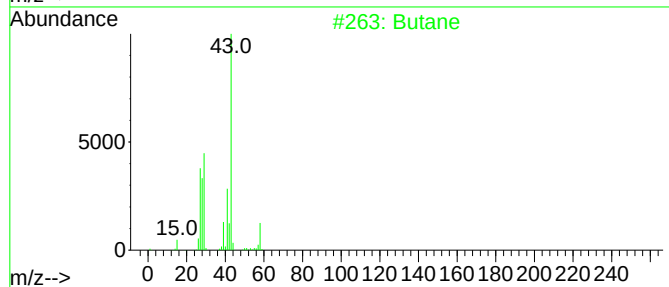
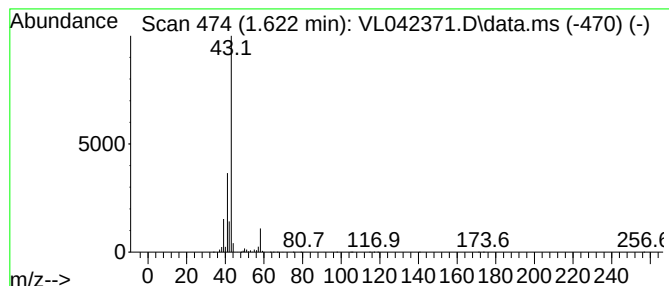
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 1 Butane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.622	8.99 ppbv	390922	Bromochloromethane	2.787

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane			58	C4H10	000106-97-8	80
2	Butane			58	C4H10	000106-97-8	80
3	Butane			58	C4H10	000106-97-8	72
4	Butane			58	C4H10	000106-97-8	72
5	Isobutane			58	C4H10	000075-28-5	50



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042371.D
Acq On : 17 Apr 2025 22:52
Operator : SY/MD
Sample : Q1726-06
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

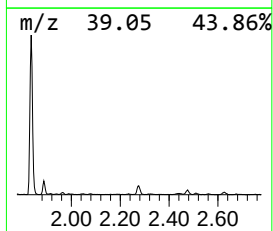
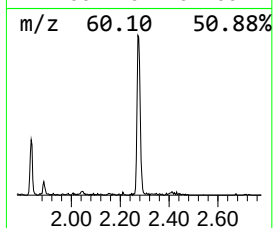
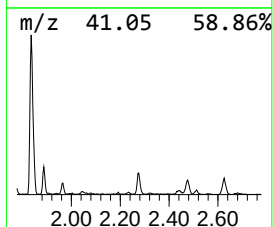
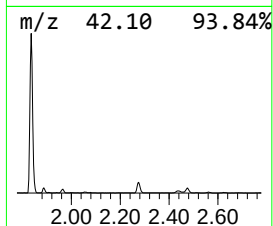
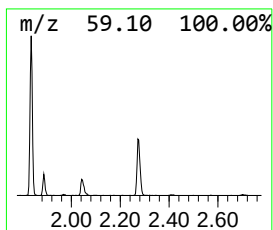
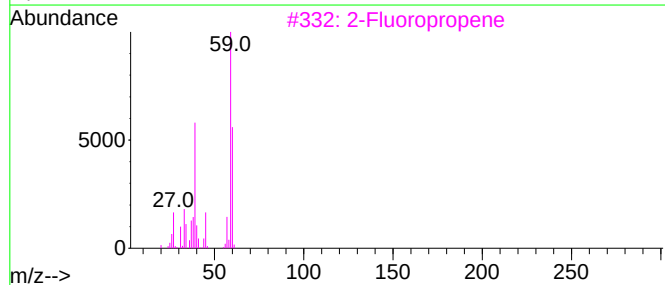
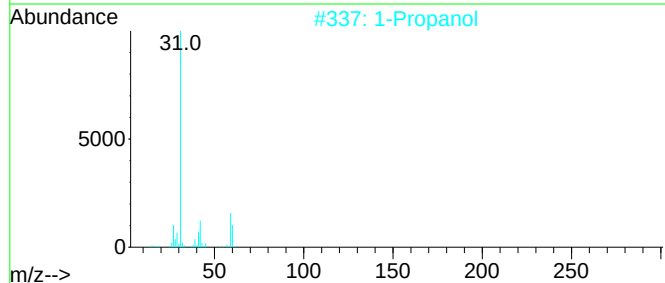
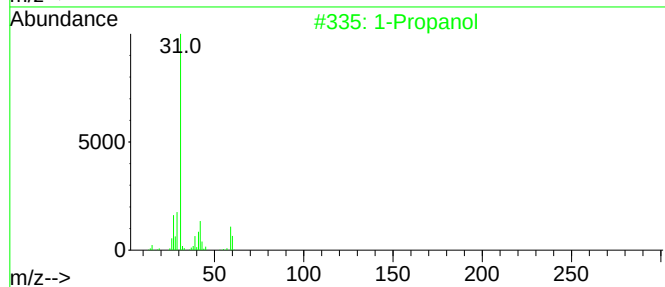
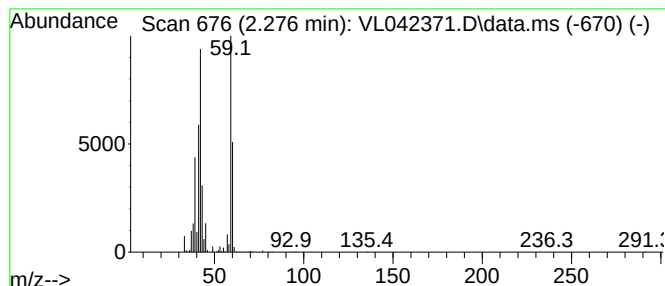
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 2 1-Propanol Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.276	5.61 ppbv	243781	Bromochloromethane	2.787

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Propanol		60	C3H8O	000071-23-8	58
2	1-Propanol		60	C3H8O	000071-23-8	53
3	2-Fluoropropene		60	C3H5F	001184-60-7	53
4	2-Fluoropropene		60	C3H5F	001184-60-7	43
5	1-Propanol		60	C3H8O	000071-23-8	40



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042371.D
Acq On : 17 Apr 2025 22:52
Operator : SY/MD
Sample : Q1726-06
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

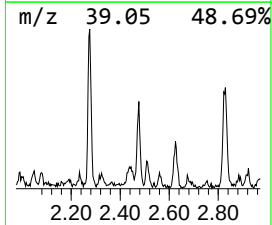
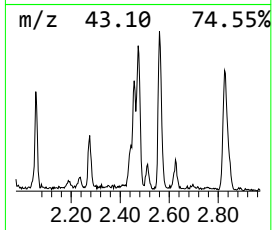
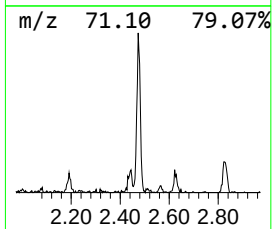
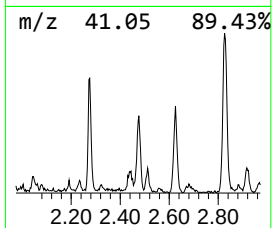
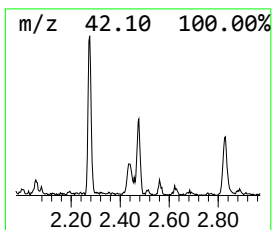
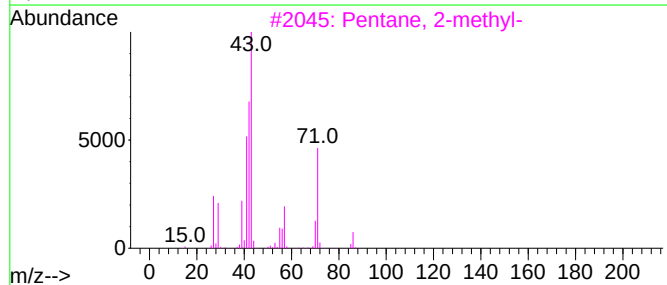
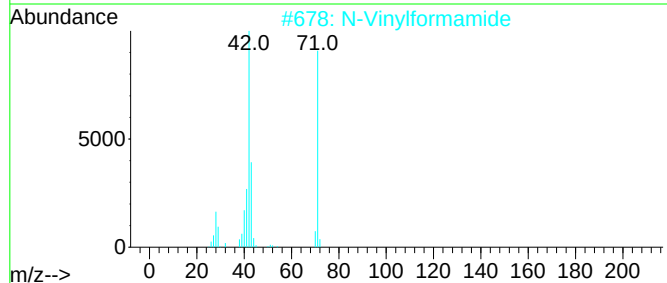
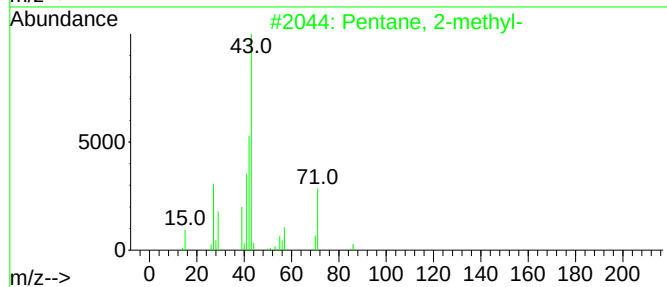
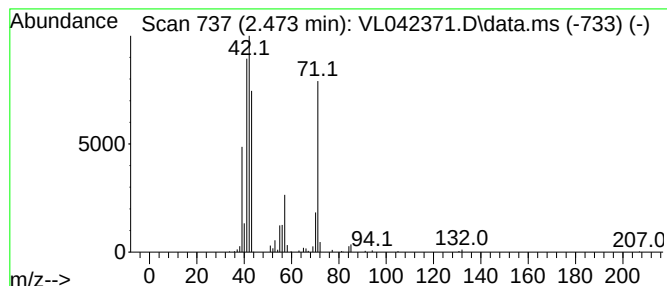
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 3 Pentane, 2-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.473	3.81 ppbv	165794	Bromochloromethane	2.787

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Pentane, 2-methyl-	86	C6H14	000107-83-5	56
2			N-Vinylformamide	71	C3H5NO	013162-05-5	50
3			Pentane, 2-methyl-	86	C6H14	000107-83-5	45
4			Pentane, 2-methyl-	86	C6H14	000107-83-5	42
5			Pentane, 2-methyl-	86	C6H14	000107-83-5	42



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042371.D
Acq On : 17 Apr 2025 22:52
Operator : SY/MD
Sample : Q1726-06
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

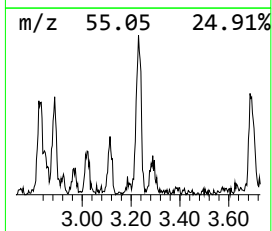
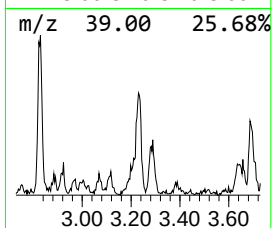
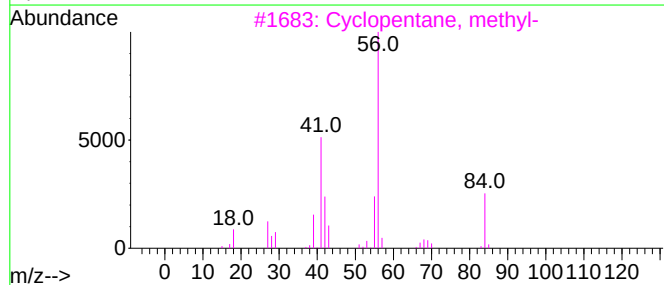
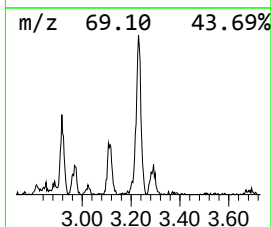
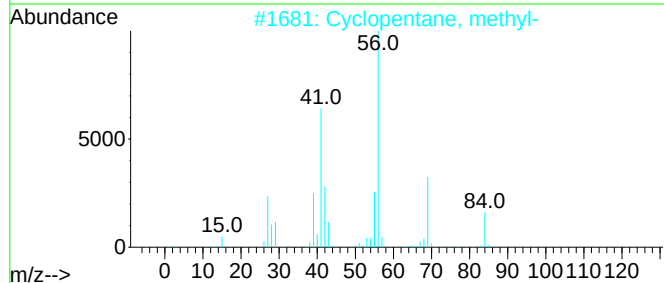
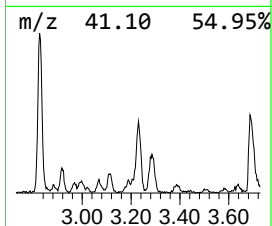
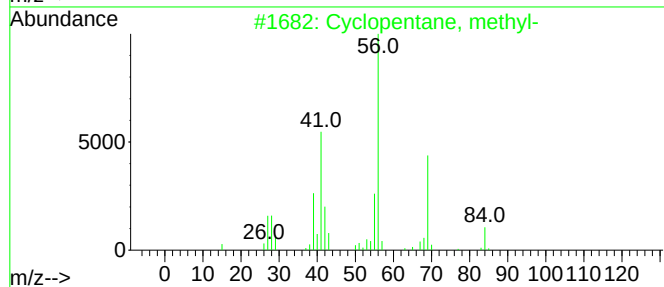
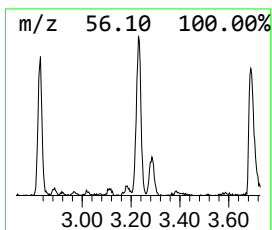
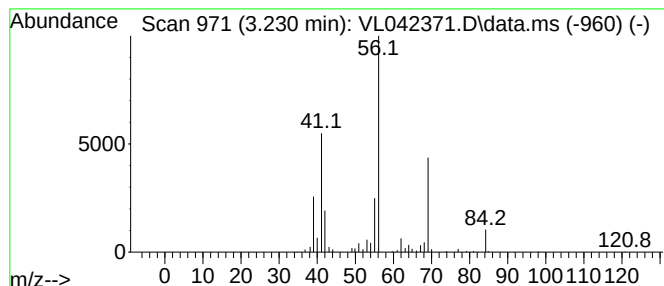
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 4 Cyclopentane, methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.230	4.30 ppbv	187052	Bromochloromethane	2.787

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Cyclopentane, methyl-	84	C6H12	000096-37-7	87
2			Cyclopentane, methyl-	84	C6H12	000096-37-7	86
3			Cyclopentane, methyl-	84	C6H12	000096-37-7	72
4			Cyclobutane, ethyl-	84	C6H12	004806-61-5	64
5			Cyclopentane, 1,1-dimethyl-	98	C7H14	001638-26-2	64



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042371.D
Acq On : 17 Apr 2025 22:52
Operator : SY/MD
Sample : Q1726-06
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

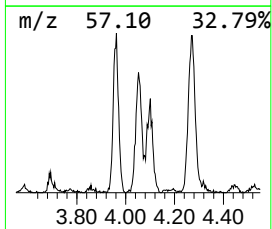
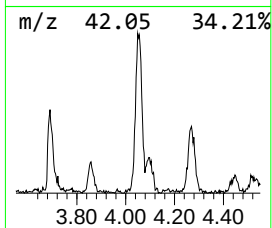
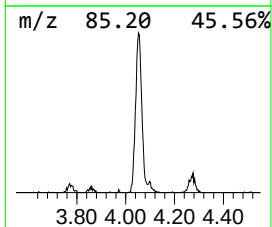
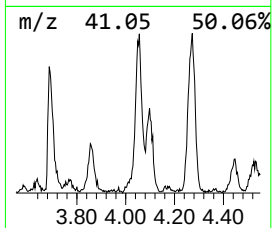
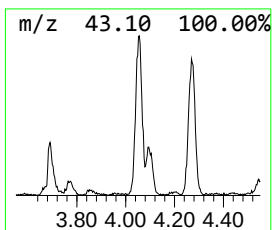
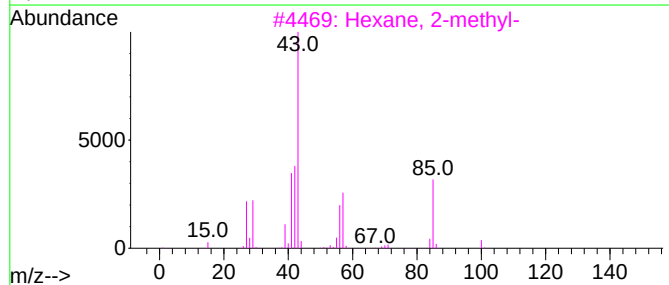
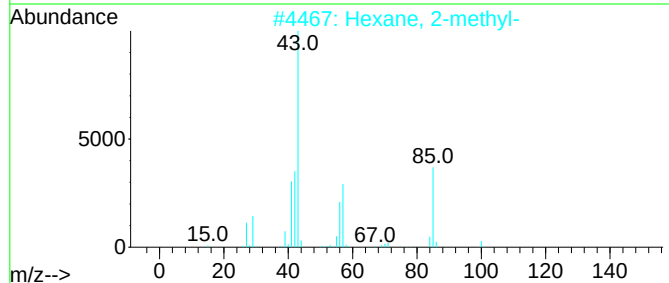
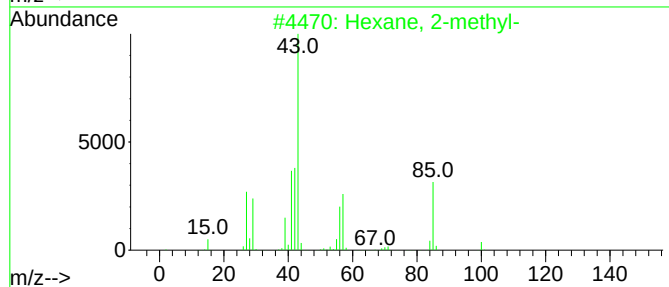
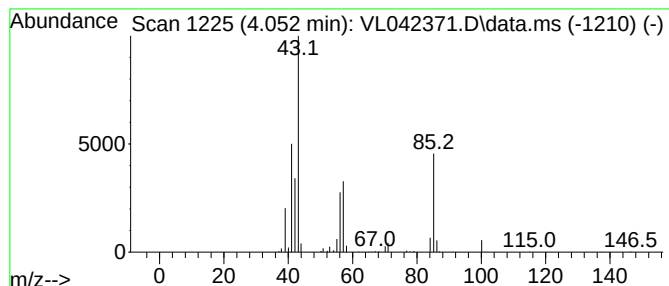
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 5 Hexane, 2-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.052	4.43 ppbv	385722	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			Heptane, 3-methyl-	114	C8H18	000589-81-1	59
5			Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	53



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042371.D
Acq On : 17 Apr 2025 22:52
Operator : SY/MD
Sample : Q1726-06
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

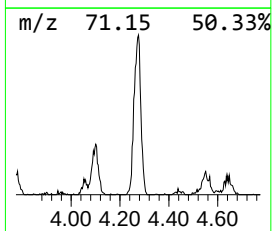
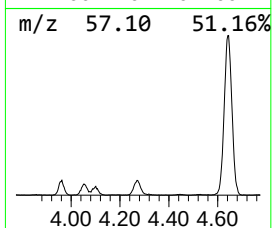
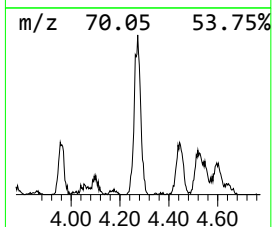
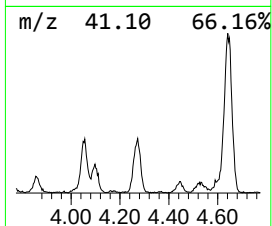
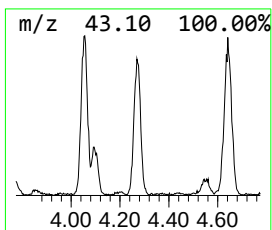
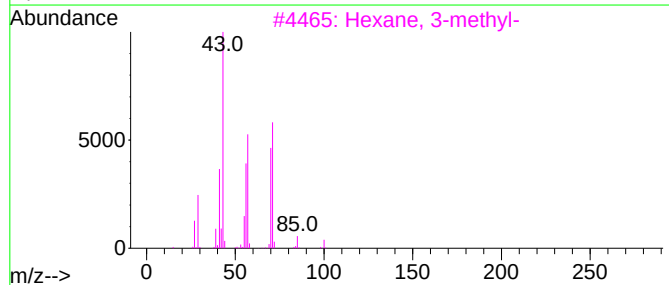
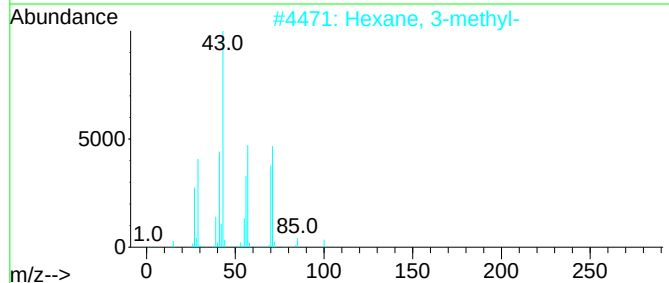
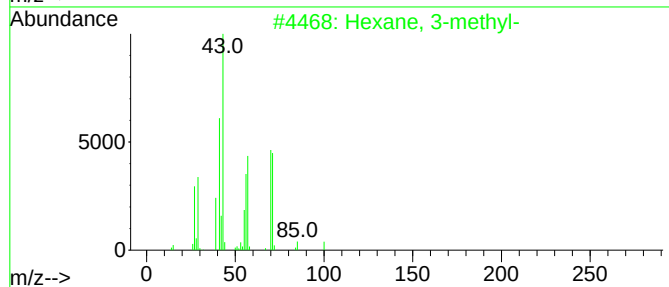
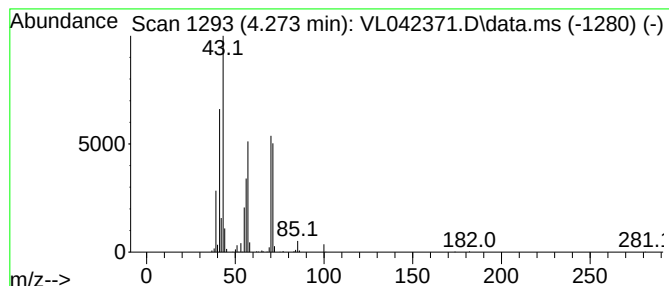
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 6 Hexane, 3-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.273	4.95 ppbv	431196	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	90
3			Hexane, 3-methyl-	100	C7H16	000589-34-4	90
4			Pentane, 3-ethyl-	100	C7H16	000617-78-7	64
5			Heptane, 4-methyl-	114	C8H18	000589-53-7	64



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042371.D
Acq On : 17 Apr 2025 22:52
Operator : SY/MD
Sample : Q1726-06
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

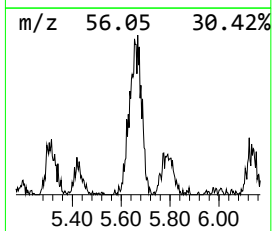
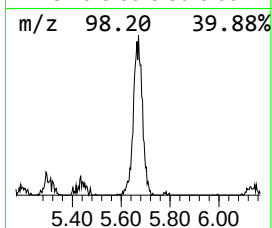
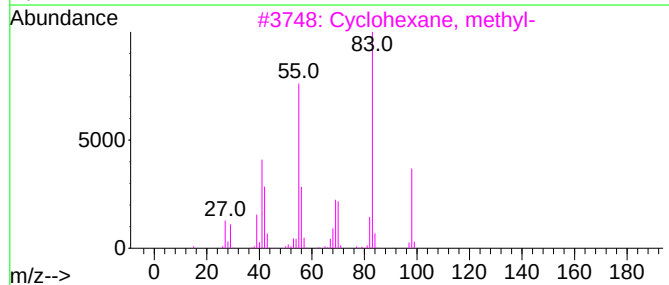
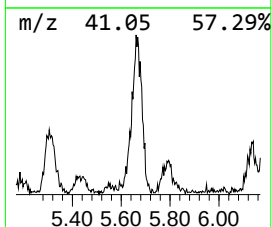
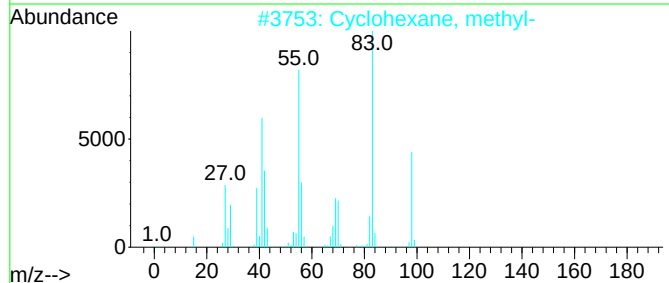
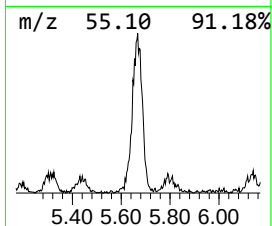
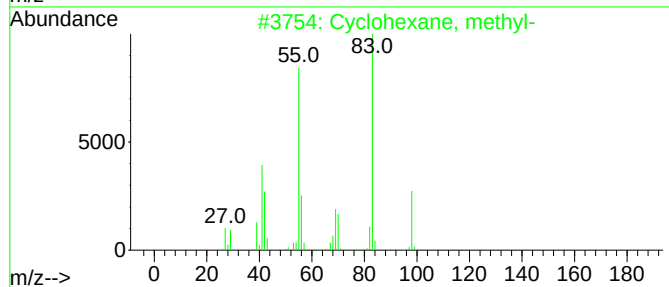
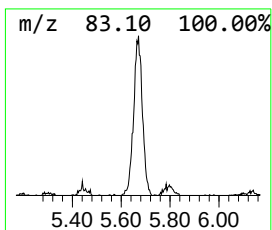
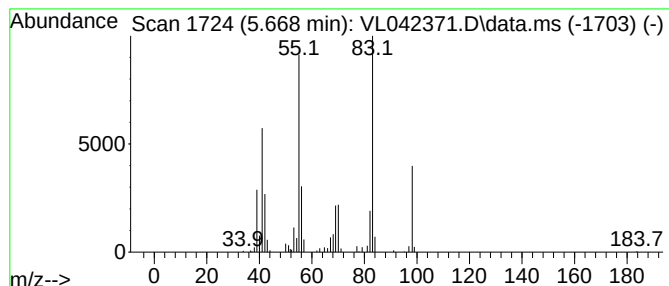
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 7 Cyclohexane, methyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.668	4.16 ppbv	362805	1,4-Difluorobenzene	3.959

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Cyclohexane, methyl-	98	C7H14	000108-87-2	94
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	93
5			Cyclohexane, methyl-	98	C7H14	000108-87-2	90



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042371.D
Acq On : 17 Apr 2025 22:52
Operator : SY/MD
Sample : Q1726-06
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

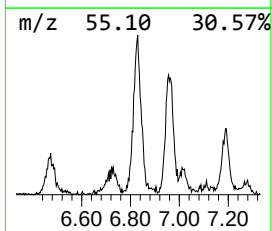
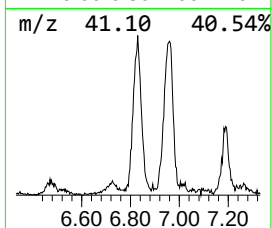
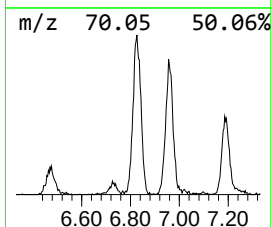
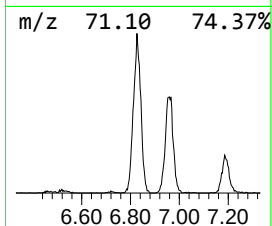
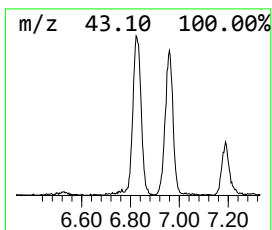
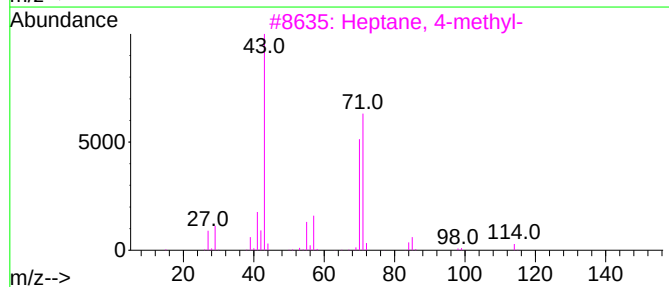
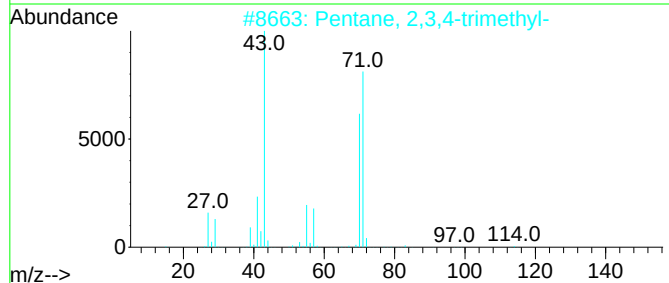
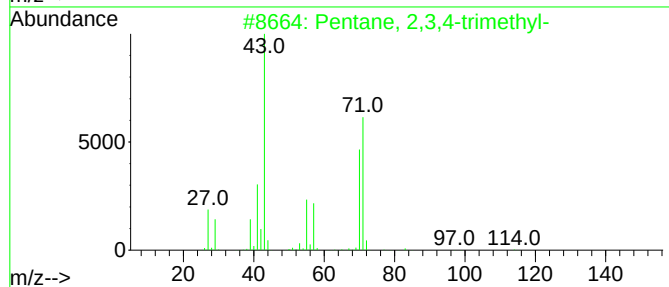
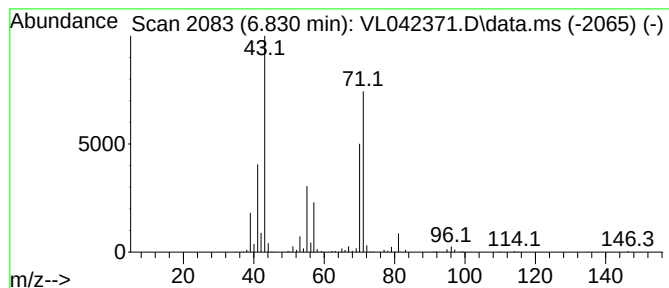
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 8 Pentane, 2,3,4-trimethyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.830	6.21 ppbv	681902	Chlorobenzene-d5	8.882

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	90
2			Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	90
3			Heptane, 4-methyl-	114	C8H18	000589-53-7	78
4			Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	74
5			Decane, 3,3,4-trimethyl-	184	C13H28	049622-18-6	72



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042371.D
Acq On : 17 Apr 2025 22:52
Operator : SY/MD
Sample : Q1726-06
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

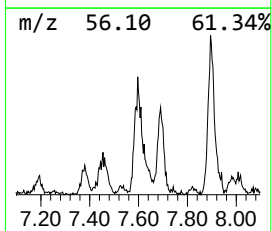
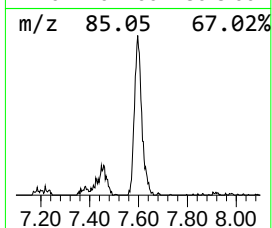
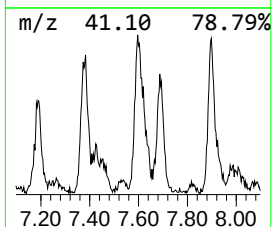
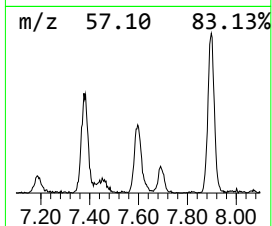
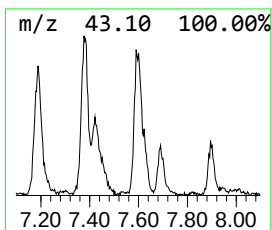
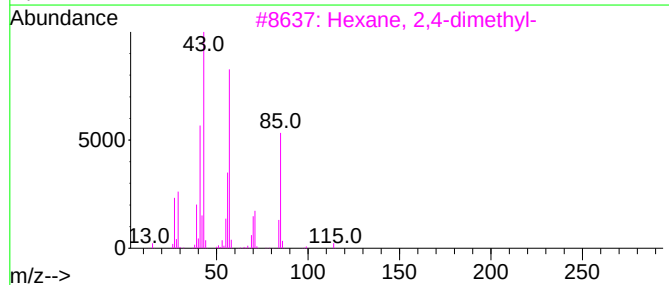
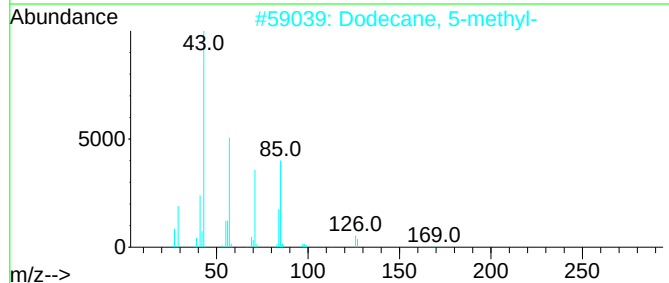
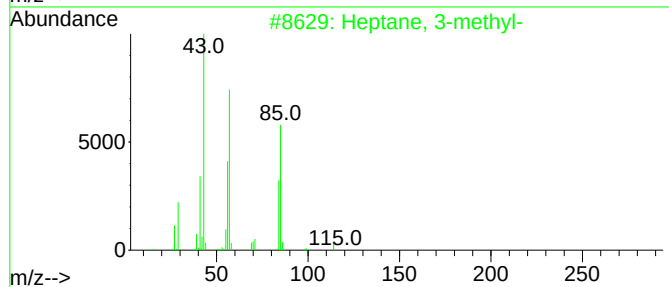
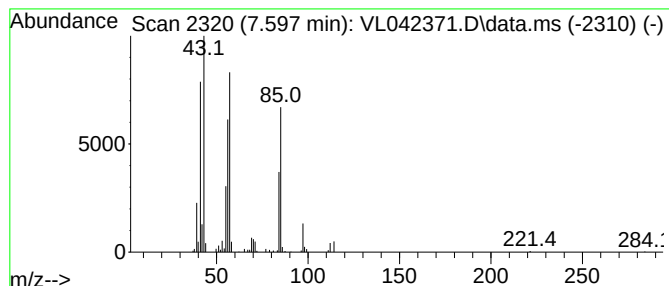
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 9 Heptane, 3-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.597	3.84 ppbv	421885	Chlorobenzene-d5	8.882

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Heptane, 3-methyl-	114	C8H18	000589-81-1	62
2			Dodecane, 5-methyl-	184	C13H28	017453-93-9	50
3			Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	49
4			2H-Pyran, 2-(1,1-dimethylethoxy)...	158	C9H18O2	001927-69-1	47
5			Hexane, 3,4-dimethyl-	114	C8H18	000583-48-2	47



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042371.D
Acq On : 17 Apr 2025 22:52
Operator : SY/MD
Sample : Q1726-06
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

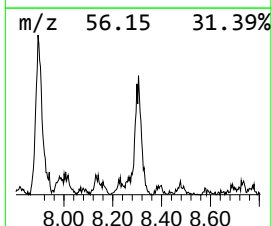
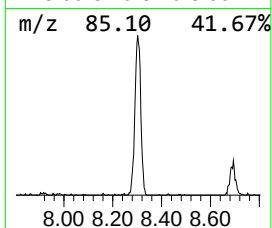
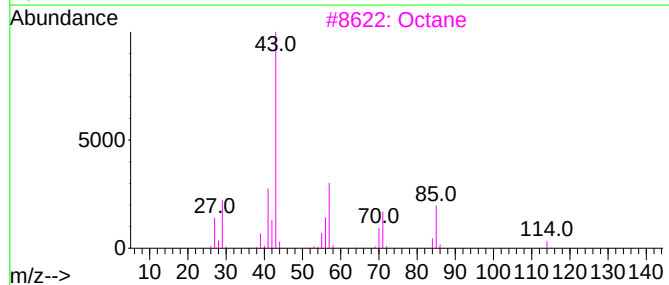
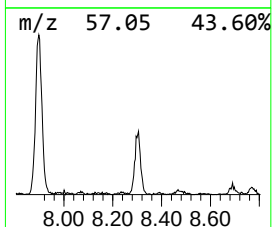
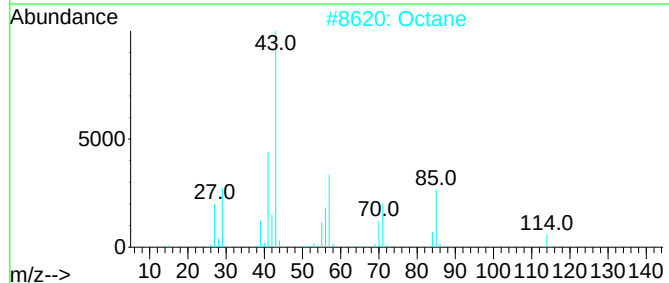
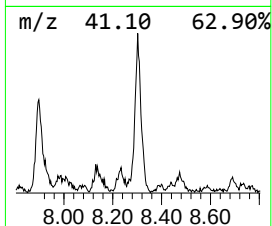
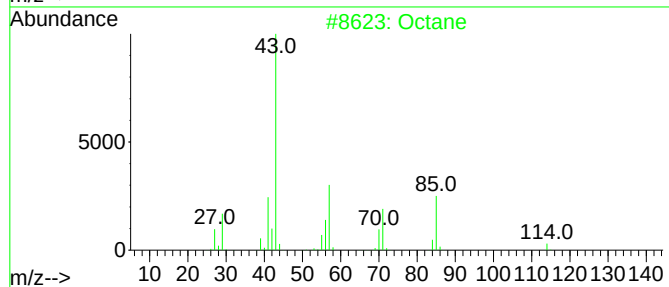
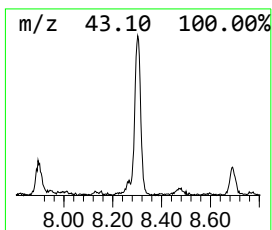
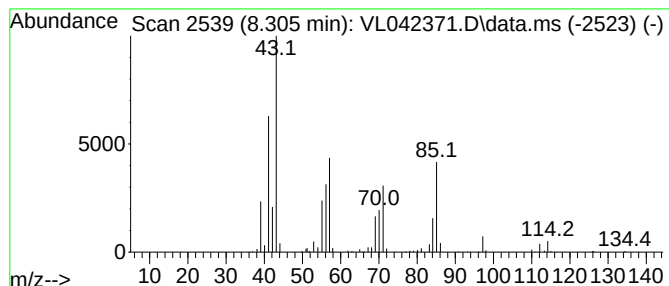
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 10 Octane Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.305	4.72 ppbv	517768	Chlorobenzene-d5	8.882

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane		114	C8H18	000111-65-9	86
2	Octane		114	C8H18	000111-65-9	86
3	Octane		114	C8H18	000111-65-9	86
4	Octane		114	C8H18	000111-65-9	80
5	Heptane, 2,4-dimethyl-		128	C9H20	002213-23-2	53



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042371.D
Acq On : 17 Apr 2025 22:52
Operator : SY/MD
Sample : Q1726-06
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

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
Butane	1.622	9.0	ppbv	390922	1	2.787	434667	10.0
1-Propanol	2.276	5.6	ppbv	243781	1	2.787	434667	10.0
Pentane, 2-methyl-	2.473	3.8	ppbv	165794	1	2.787	434667	10.0
Cyclopentane, m...	3.230	4.3	ppbv	187052	1	2.787	434667	10.0
Hexane, 2-methyl-	4.052	4.4	ppbv	385722	2	3.959	871230	10.0
Hexane, 3-methyl-	4.273	5.0	ppbv	431196	2	3.959	871230	10.0
Cyclohexane, me...	5.668	4.2	ppbv	362805	2	3.959	871230	10.0
Pentane, 2,3,4-...	6.830	6.2	ppbv	681902	3	8.882	1097660	10.0
Heptane, 3-methyl-	7.597	3.8	ppbv	421885	3	8.882	1097660	10.0
Octane	8.305	4.7	ppbv	517768	3	8.882	1097660	10.0

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-3-03312025DL	SDG No.:	Q1726
Lab Sample ID:	Q1726-06DL	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
VL042381.D	20		04/18/25 04:05	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	4.20	20.8	UD	20.8	49.5	ug/m3
64-17-5	Ethanol	370	697	EDQ	12.1	18.8	ug/m3
74-87-3	Chloromethane	2.00	4.13	UD	4.13	20.6	ug/m3
75-01-4	Vinyl Chloride	0.28	0.72	UD	0.72	1.53	ug/m3
74-83-9	Bromomethane	2.80	10.9	UD	10.9	38.8	ug/m3
75-00-3	Chloroethane	3.40	8.97	UD	8.97	26.4	ug/m3
109-99-9	Tetrahydrofuran	2.60	7.67	UD	7.67	29.5	ug/m3
75-69-4	Trichlorofluoromethane	3.20	18.0	UD	18.0	56.2	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	3.20	24.5	UD	24.5	76.7	ug/m3
76-14-2	Dichlorotetrafluoroethane	1.80	12.6	UD	12.6	69.9	ug/m3
593-60-2	Bromoethene	2.40	10.5	UD	10.5	43.7	ug/m3
75-65-0	tert-Butyl alcohol	3.80	11.5	UD	11.5	30.3	ug/m3
142-82-5	Heptane	3.90	16.0	JD	9.02	41.0	ug/m3
67-63-0	Isopropyl Alcohol	45.0	111	D	3.44	24.6	ug/m3
75-35-4	1,1-Dichloroethene	2.80	11.1	UD	11.1	39.6	ug/m3
67-64-1	Acetone	670	1590	ED	11.4	23.8	ug/m3
75-15-0	Carbon Disulfide	3.20	9.97	UD	9.97	31.1	ug/m3
1634-04-4	Methyl tert-Butyl Ether	2.40	8.65	UD	8.65	36.0	ug/m3
75-09-2	Methylene Chloride	3.80	13.2	UD	13.2	34.7	ug/m3
156-60-5	trans-1,2-Dichloroethene	3.80	15.1	UD	15.1	39.6	ug/m3
75-34-3	1,1-Dichloroethane	2.60	10.5	UD	10.5	40.5	ug/m3
110-82-7	Cyclohexane	4.40	15.2	UD	15.2	34.4	ug/m3
78-93-3	2-Butanone	3.20	9.44	JD	7.08	29.5	ug/m3
56-23-5	Carbon Tetrachloride	0.22	1.38	UD	1.38	3.77	ug/m3
156-59-2	cis-1,2-Dichloroethene	1.80	7.14	UD	7.14	39.6	ug/m3
67-66-3	Chloroform	1.70	8.30	UD	8.30	48.8	ug/m3
71-55-6	1,1,1-Trichloroethane	0.19	1.04	UD	1.04	3.27	ug/m3
540-84-1	2,2,4-Trimethylpentane	9.90	46.2	JD	9.34	46.7	ug/m3
71-43-2	Benzene	1.70	5.43	UD	5.43	31.9	ug/m3
107-06-2	1,2-Dichloroethane	1.80	7.29	UD	7.29	40.5	ug/m3
79-01-6	Trichloroethene	0.34	1.83	UD	1.83	3.22	ug/m3
78-87-5	1,2-Dichloropropane	2.20	10.2	UD	10.2	46.2	ug/m3
75-27-4	Bromodichloromethane	1.50	10.1	UD	10.1	67.0	ug/m3
108-10-1	4-Methyl-2-Pentanone	1.90	7.79	UD	7.79	41.0	ug/m3
108-88-3	Toluene	23.3	87.8	D	8.29	37.7	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-3-03312025DL	SDG No.:	Q1726
Lab Sample ID:	Q1726-06DL	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
VL042381.D	20		04/18/25 04:05	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	1.20	5.45	UD	5.45	45.4	ug/m3
10061-01-5	cis-1,3-Dichloropropene	1.30	5.90	UD	5.90	45.4	ug/m3
79-00-5	1,1,2-Trichloroethane	1.40	7.64	UD	7.64	54.6	ug/m3
124-48-1	Dibromochloromethane	1.30	11.1	UD	11.1	85.2	ug/m3
106-93-4	1,2-Dibromoethane	1.40	10.8	UD	10.8	15.4	ug/m3
127-18-4	Tetrachloroethene	0.30	2.03	UD	2.03	4.07	ug/m3
108-90-7	Chlorobenzene	1.50	6.91	UD	6.91	46.0	ug/m3
100-41-4	Ethyl Benzene	4.40	19.1	JD	10.4	43.4	ug/m3
179601-23-1	m/p-Xylene	15.7	68.2	JD	18.2	86.9	ug/m3
95-47-6	o-Xylene	6.00	26.1	JD	10.4	43.4	ug/m3
100-42-5	Styrene	2.20	9.37	UD	9.37	42.6	ug/m3
75-25-2	Bromoform	1.10	11.4	UD	11.4	103	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.22	1.51	UD	1.51	4.12	ug/m3
95-49-8	2-Chlorotoluene	2.20	11.4	UD	11.4	51.8	ug/m3
108-67-8	1,3,5-Trimethylbenzene	2.70	13.3	JD	10.8	49.2	ug/m3
95-63-6	1,2,4-Trimethylbenzene	7.60	37.4	JD	7.87	49.2	ug/m3
541-73-1	1,3-Dichlorobenzene	1.60	9.62	UD	9.62	60.1	ug/m3
106-46-7	1,4-Dichlorobenzene	1.10	6.61	UD	6.61	60.1	ug/m3
95-50-1	1,2-Dichlorobenzene	1.50	9.02	UD	9.02	60.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	1.70	12.6	UD	12.6	74.2	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	1.70	18.1	UD	18.1	107	ug/m3
106-99-0	1,3-Butadiene	2.60	5.75	UD	5.75	22.1	ug/m3
91-20-3	Naphthalene	1.50	7.86	UD	7.86	10.5	ug/m3
622-96-8	4-Ethyltoluene	2.40	11.8	UD	11.8	49.2	ug/m3
110-54-3	Hexane	2.20	7.75	UD	7.75	35.2	ug/m3
107-05-1	Allyl Chloride	3.00	9.39	UD	9.39	31.3	ug/m3
123-91-1	1,4-Dioxane	4.20	15.1	UD	15.1	36.0	ug/m3
80-62-6	Methyl Methacrylate	1.70	6.96	UD	6.96	41.0	ug/m3

SURROGATES

460-00-4	1-Bromo-4-Fluorobenzene	10.3		70 (65) - 130 (135)	103%	SPK: 10
----------	-------------------------	------	--	---------------------	------	---------

INTERNAL STANDARDS

74-97-5	Bromochloromethane	87600	2.784
540-36-3	1,4-Difluorobenzene	247000	3.952
3114-55-4	Chlorobenzene-d5	211000	8.875

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-3-03312025DL	SDG No.:	Q1726
Lab Sample ID:	Q1726-06DL	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
VL042381.D	20		04/18/25 04:05	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 : VL042381.D
 Acq On : 18 Apr 2025 04:05
 Operator : SY/MD
 Sample : Q1726-06DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-3-03312025DL

Manual Integrations
 APPROVED

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

Quant Time: Apr 18 04:42:23 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 02:14:00 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	87593	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	246915	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	211054	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	179405	10.344	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.400%
Target Compounds						
					Qvalue	
9) Propene	1.486	41	1388m	0.207	ppbv	
10) Heptane	4.965	43	3685m	0.195	ppbv	
13) Ethanol	1.719	45	19745	18.510	ppbv	80
15) Acetone	1.832	43	477735	33.317	ppbv	98
19) Isopropyl Alcohol	1.884	45	17914	2.249	ppbv #	1
34) 2-Butanone	2.557	43	3077m	0.158	ppbv	
44) 2,2,4-Trimethylpentane	4.635	57	22777	0.495	ppbv	93
53) Toluene	6.927	91	37165m	1.163	ppbv	
58) Ethyl Benzene	9.348	91	9155	0.219	ppbv	90
59) m/p-Xylene	9.526	91	26414m	0.784	ppbv	
60) o-Xylene	9.959	91	10141	0.299	ppbv	100
73) 1,3,5-Trimethylbenzene	11.196	105	4940	0.135	ppbv	87
74) 1,2,4-Trimethylbenzene	11.532	105	16215	0.379	ppbv #	61

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

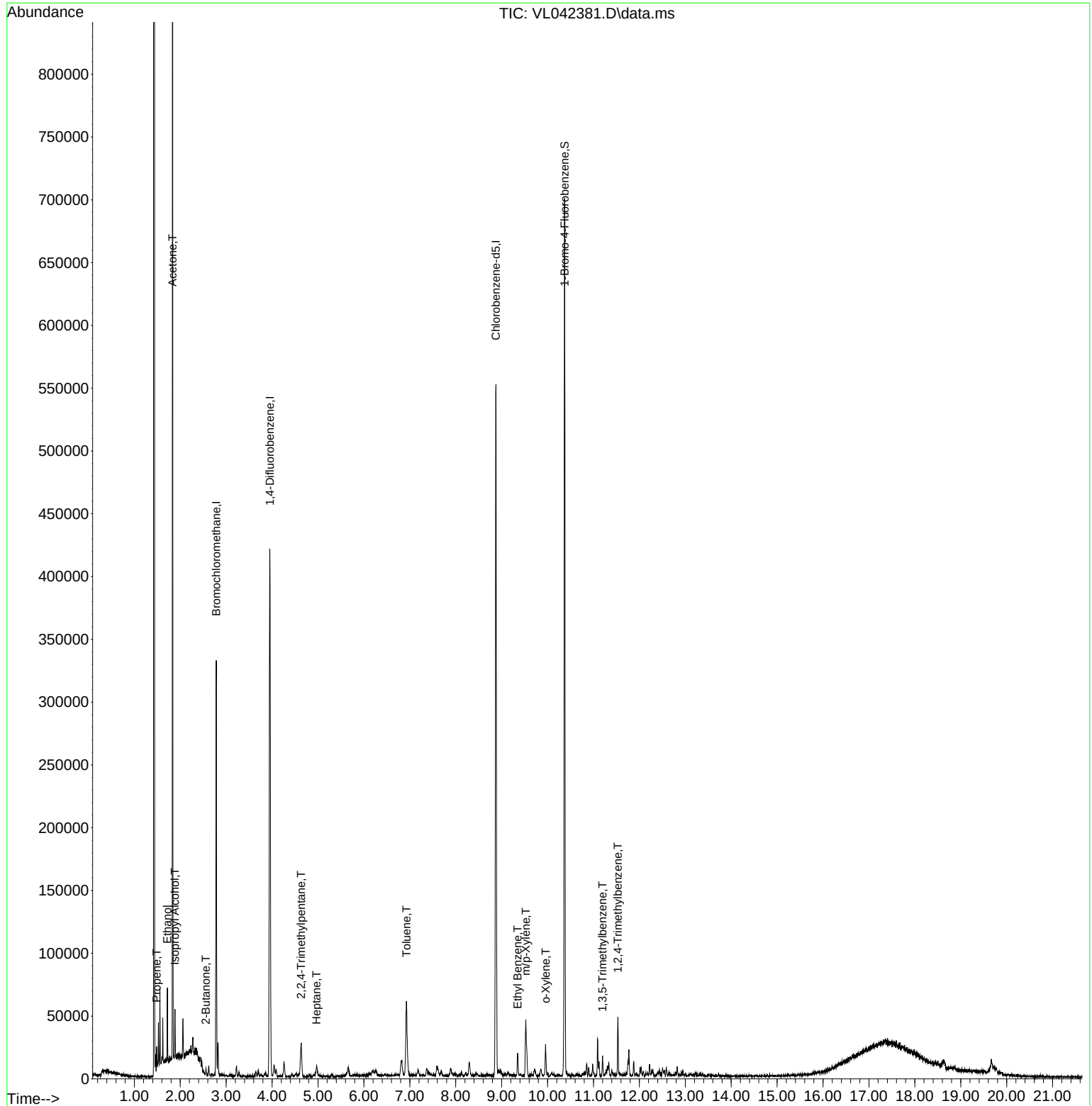
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042381.D
Acq On : 18 Apr 2025 04:05
Operator : SY/MD
Sample : Q1726-06DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

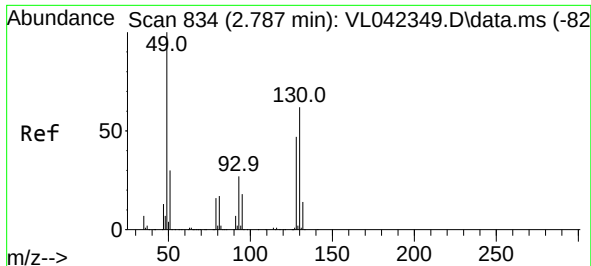
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL

Quant Time: Apr 18 04:42:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

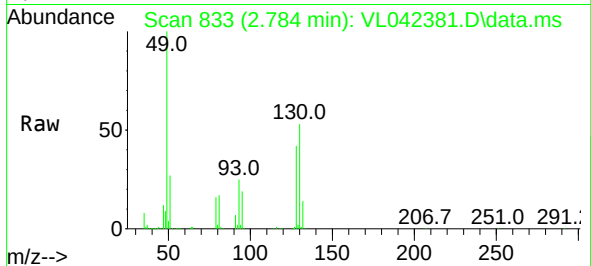
Reviewed By : Semsettin Yesilyurt 04/18/2025
Supervised By : Mahesh Dadoda 04/18/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

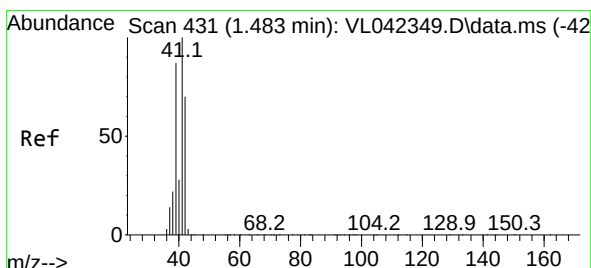
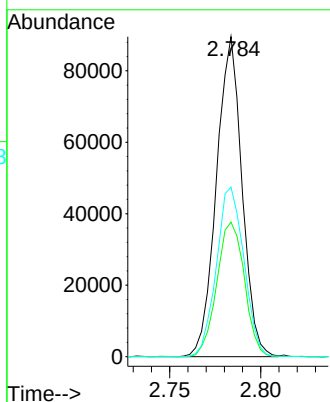
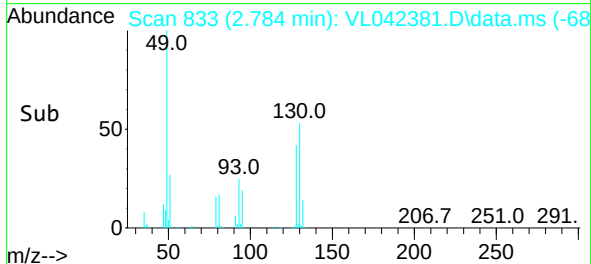
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL



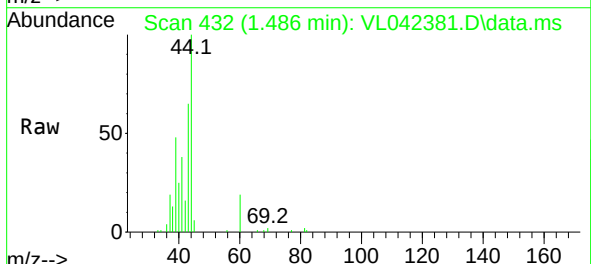
Tgt Ion: 49 Resp: 8759
Ion Ratio Lower Upper
49 100
128 45.3 22.8 68.4
130 56.9 29.3 88.0

Manual Integrations
APPROVED

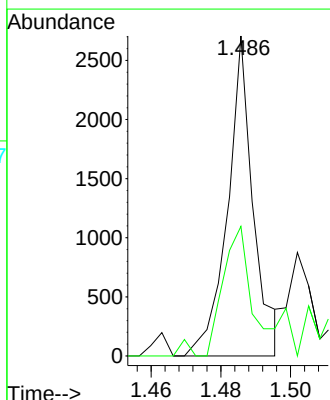
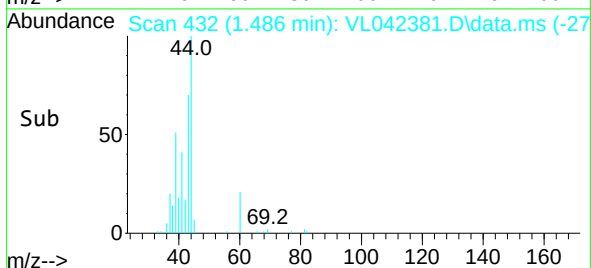
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

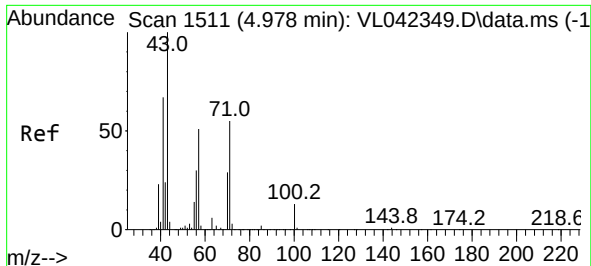


#9
Propene
Concen: 0.207 ppbv m
RT: 1.486 min Scan# 432
Delta R.T. 0.003 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05



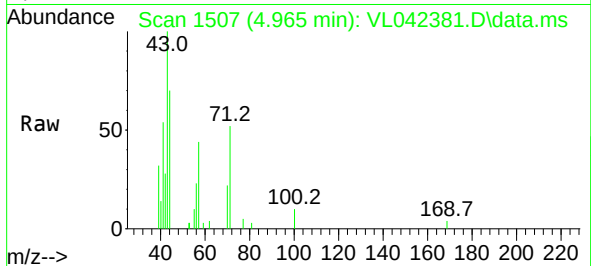
Tgt Ion: 41 Resp: 1388
Ion Ratio Lower Upper
41 100
42 259.2 56.2 84.4#





#10
Heptane
Concen: 0.195 ppbv m
RT: 4.965 min Scan# 11
Delta R.T. -0.013 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

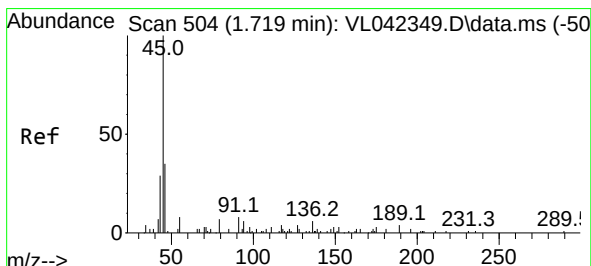
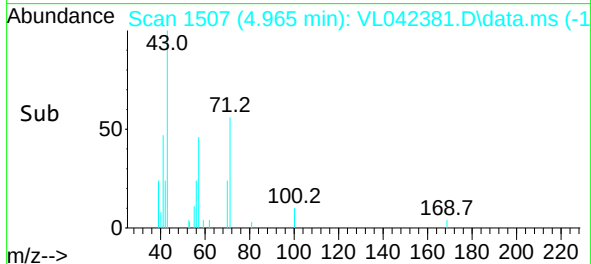
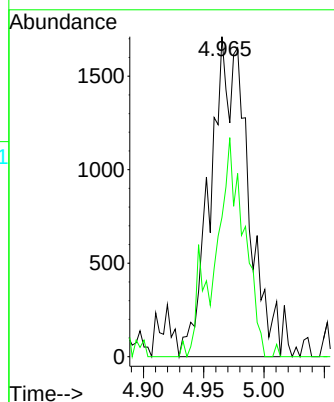
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL



Tgt Ion: 43 Resp: 368
Ion Ratio Lower Upper
43 100
57 54.5 39.9 59.9

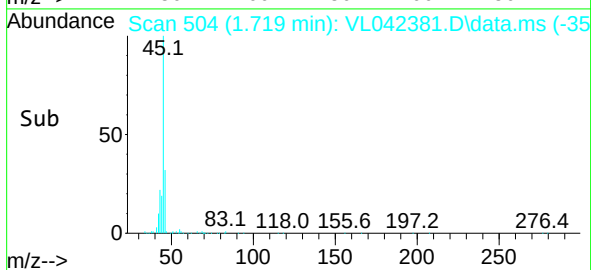
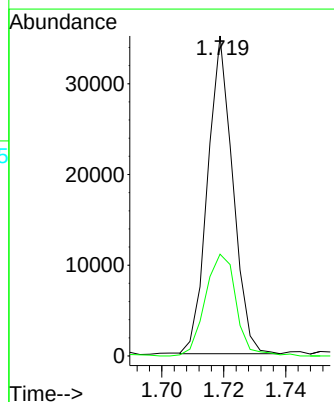
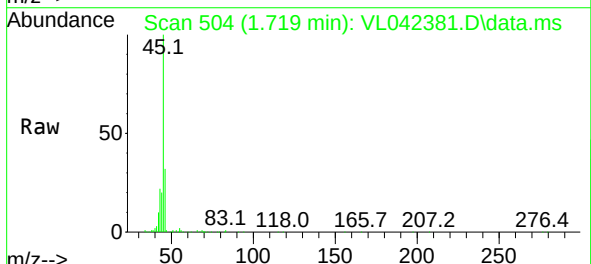
Manual Integrations
APPROVED

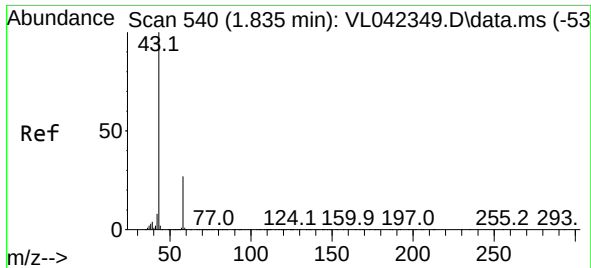
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#13
Ethanol
Concen: 18.510 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

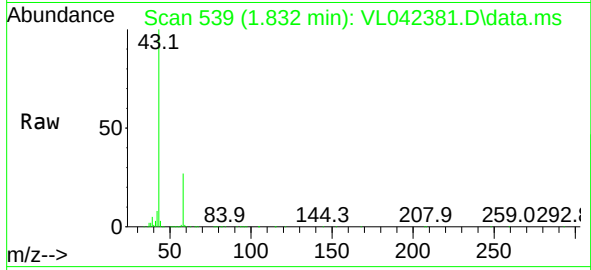
Tgt Ion: 45 Resp: 19745
Ion Ratio Lower Upper
45 100
46 40.4 21.9 87.7





#15
Acetone
Concen: 33.317 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.003 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

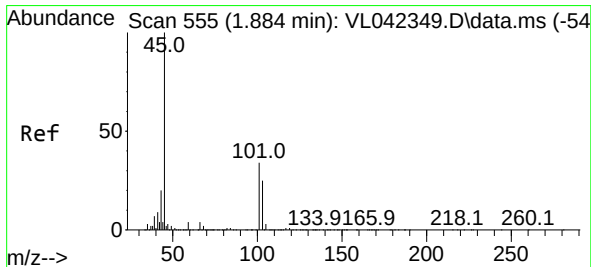
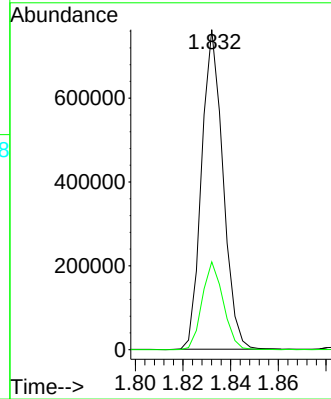
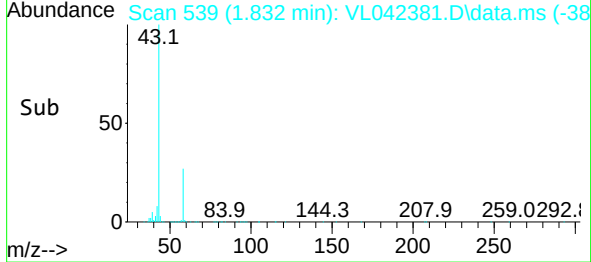
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL



Tgt Ion: 43 Resp: 477735
Ion Ratio Lower Upper
43 100
58 27.2 22.4 33.6

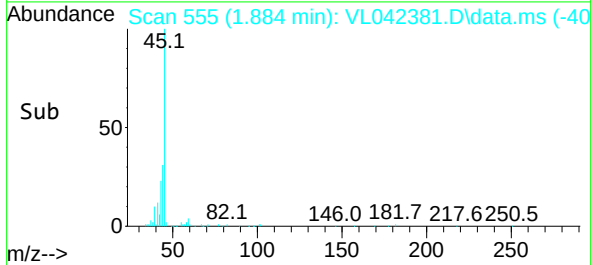
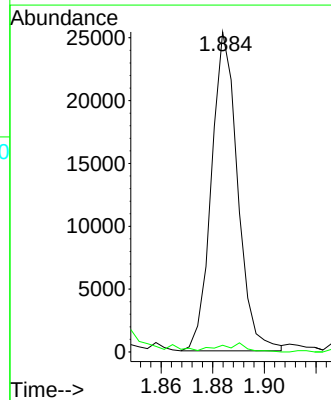
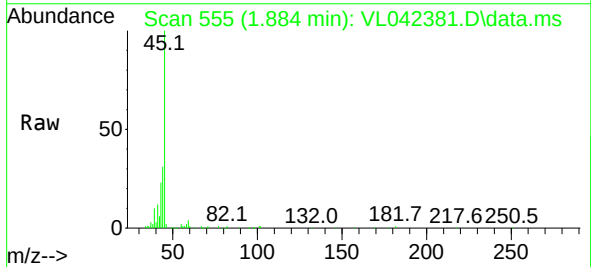
Manual Integrations
APPROVED

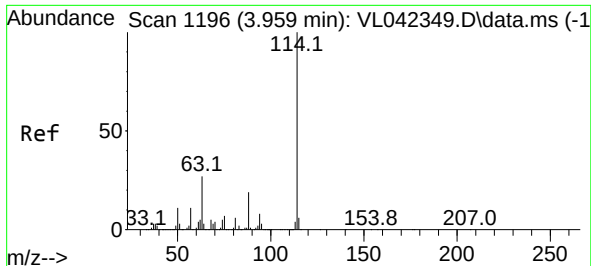
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#19
Isopropyl Alcohol
Concen: 2.249 ppbv
RT: 1.884 min Scan# 555
Delta R.T. -0.000 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

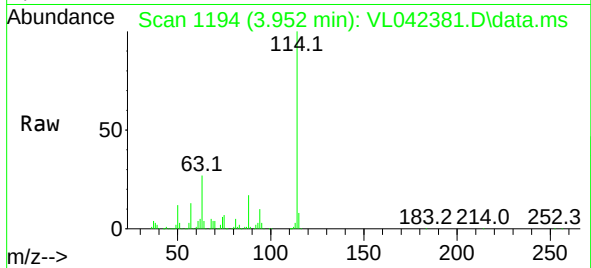
Tgt Ion: 45 Resp: 17914
Ion Ratio Lower Upper
45 100
58 724.8 34.5 51.7#





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. -0.007 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

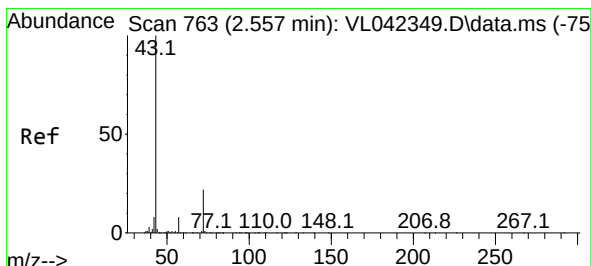
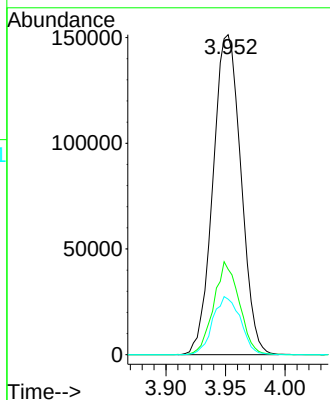
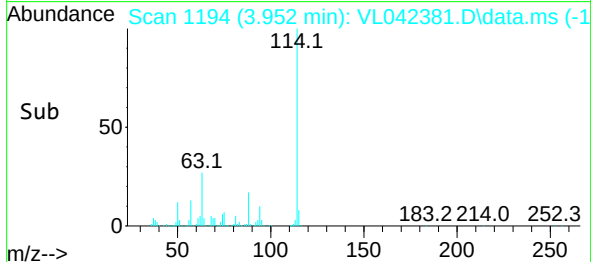
Instrument : MSVOA_L
ClientSampleId : IA-B2-3-03312025DL



Tgt Ion: 114 Resp: 246915
Ion Ratio Lower Upper
114 100
63 26.6 21.8 32.6
88 17.9 15.5 23.3

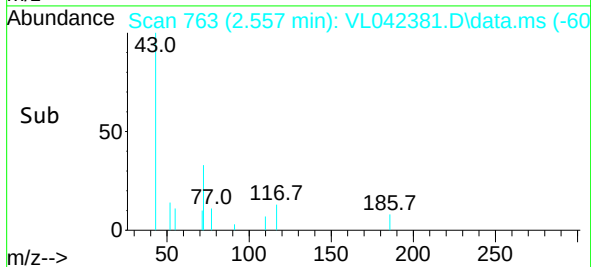
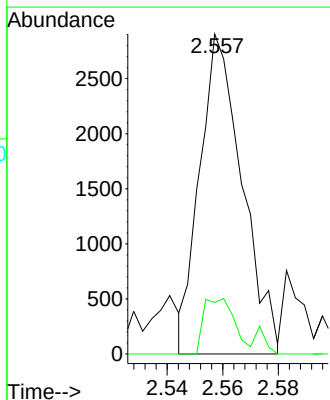
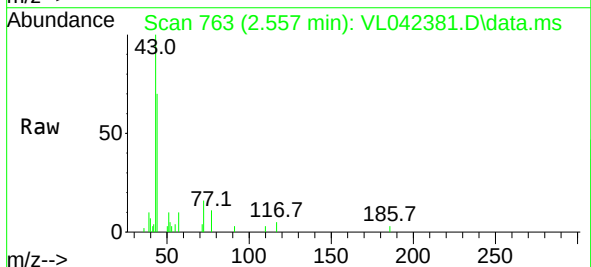
Manual Integrations
APPROVED

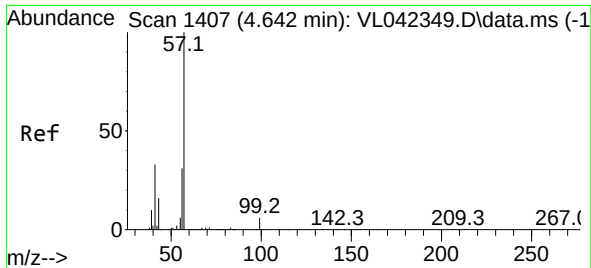
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#34
2-Butanone
Concen: 0.158 ppbv m
RT: 2.557 min Scan# 763
Delta R.T. -0.000 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

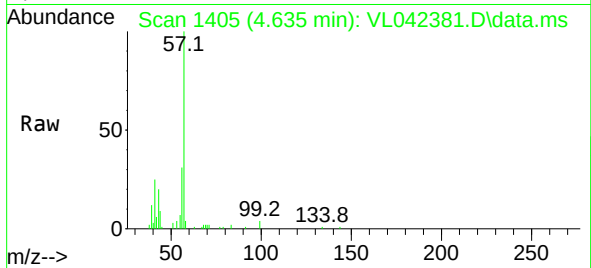
Tgt Ion: 43 Resp: 3077
Ion Ratio Lower Upper
43 100
72 14.7 18.2 27.2#





#44
2,2,4-Trimethylpentane
Concen: 0.495 ppbv
RT: 4.635 min Scan# 1405
Delta R.T. -0.007 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

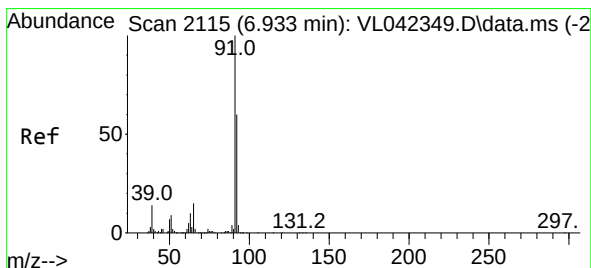
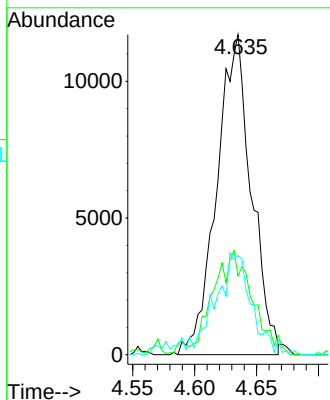
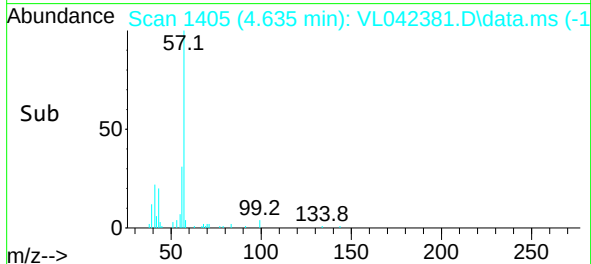
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL



Tgt Ion: 57 Resp: 2277
Ion Ratio Lower Upper
57 100
41 38.3 27.2 40.8
56 35.7 25.7 38.5

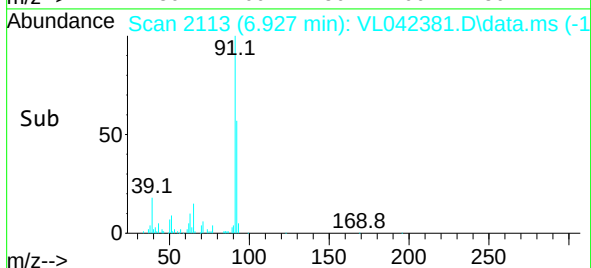
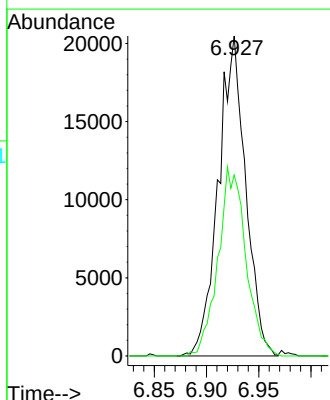
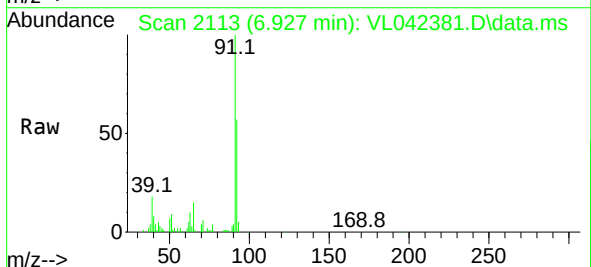
Manual Integrations
APPROVED

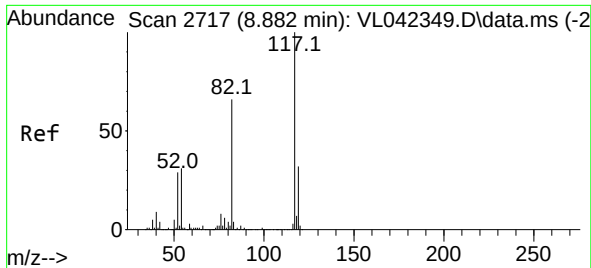
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#53
Toluene
Concen: 1.163 ppbv m
RT: 6.927 min Scan# 2113
Delta R.T. -0.007 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

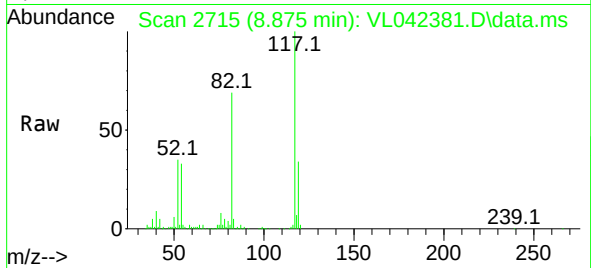
Tgt Ion: 91 Resp: 37165
Ion Ratio Lower Upper
91 100
92 60.0 48.2 72.4





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 211054
Delta R.T. -0.007 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

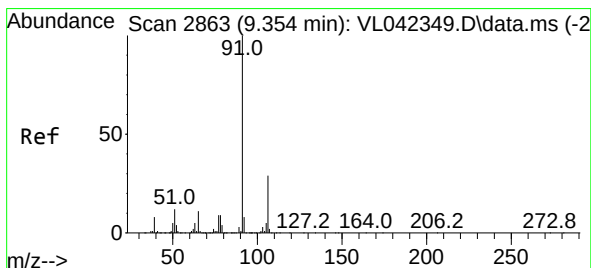
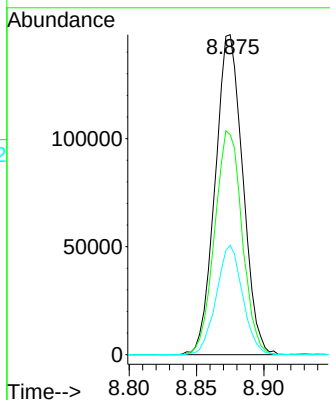
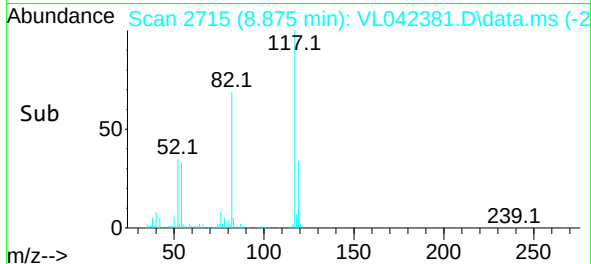
Instrument : MSVOA_L
ClientSampleId : IA-B2-3-03312025DL



Tgt Ion: 117 Resp: 211054
Ion Ratio Lower Upper
117 100
82 69.8 57.8 86.6
119 32.7 25.2 37.8

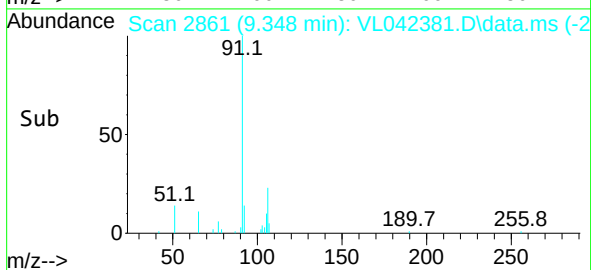
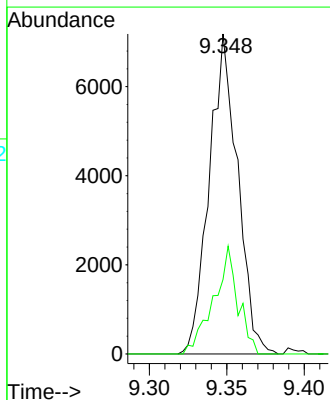
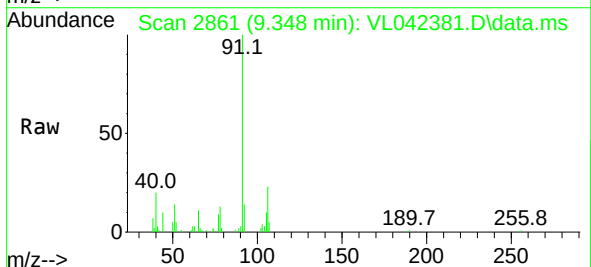
Manual Integrations
APPROVED

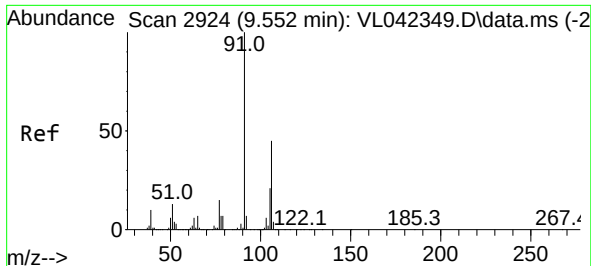
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#58
Ethyl Benzene
Concen: 0.219 ppbv
RT: 9.348 min Scan# 2861
Delta R.T. -0.007 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

Tgt Ion: 91 Resp: 9155
Ion Ratio Lower Upper
91 100
106 23.3 23.0 34.4





#59

m/p-Xylene

Concen: 0.784 ppbv m

RT: 9.526 min Scan# 2916

Delta R.T. -0.026 min

Lab File: VL042381.D

Acq: 18 Apr 2025 04:05

Instrument :

MSVOA_L

ClientSampleId :

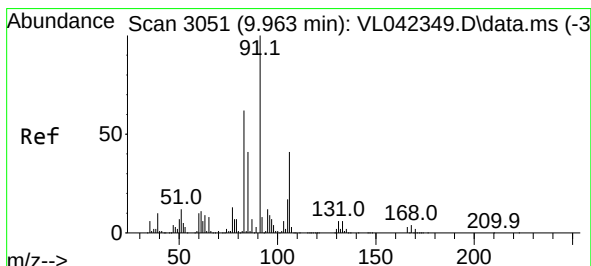
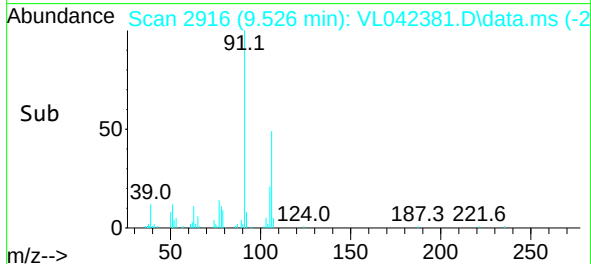
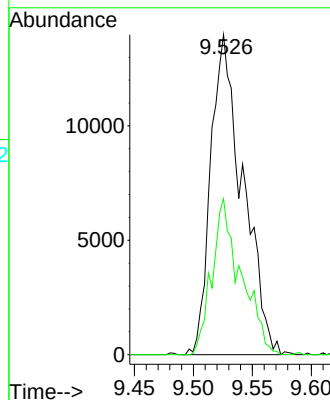
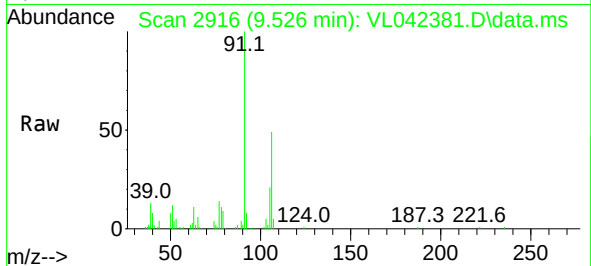
IA-B2-3-03312025DL

Tgt Ion: 91 Resp: 26414
 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: 0.299 ppbv

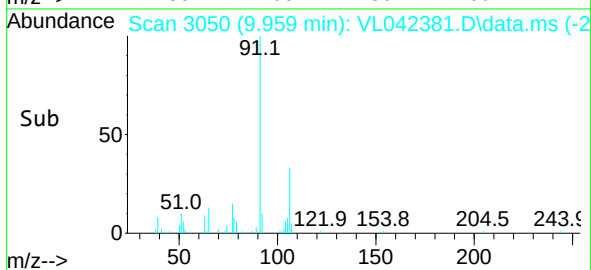
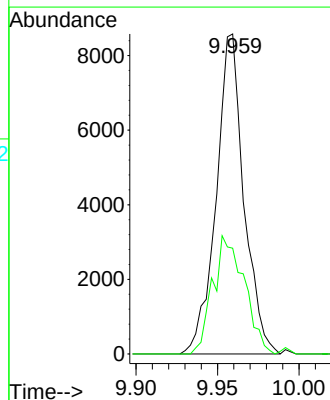
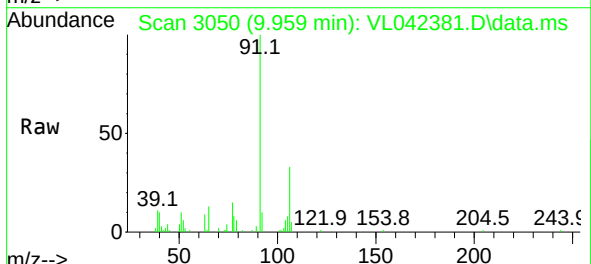
RT: 9.959 min Scan# 3050

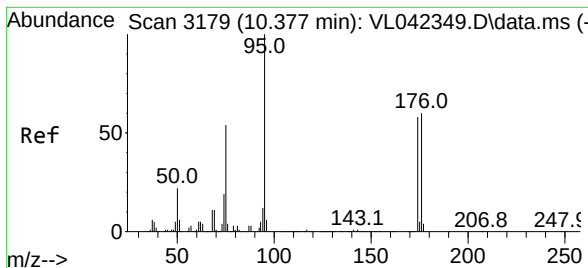
Delta R.T. -0.003 min

Lab File: VL042381.D

Acq: 18 Apr 2025 04:05

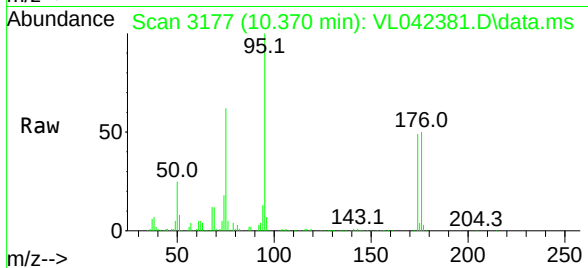
Tgt Ion: 91 Resp: 10141
 Ion Ratio Lower Upper
 91 100
 106 42.6 21.1 63.4





#68
1-Bromo-4-Fluorobenzene
Concen: 10.344 ppbv
RT: 10.370 min Scan# 3179
Delta R.T. -0.007 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

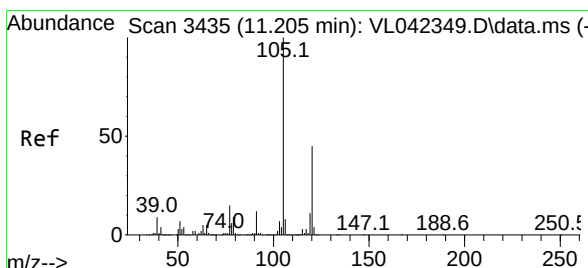
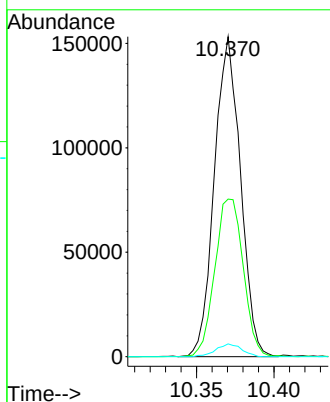
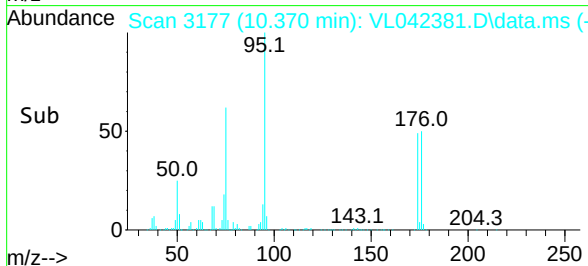
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL



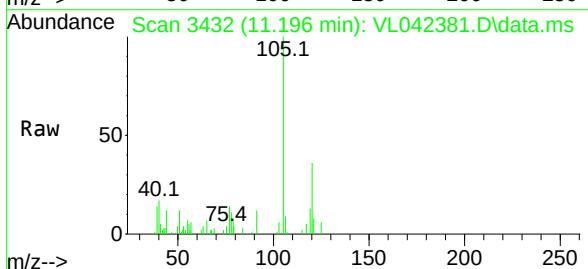
Tgt Ion: 95 Resp: 17940
Ion Ratio Lower Upper
95 100
174 53.8 48.5 72.7
175 4.0 3.7 5.5

Manual Integrations
APPROVED

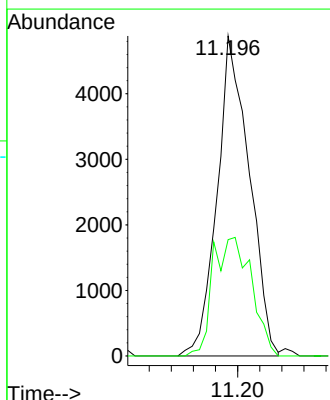
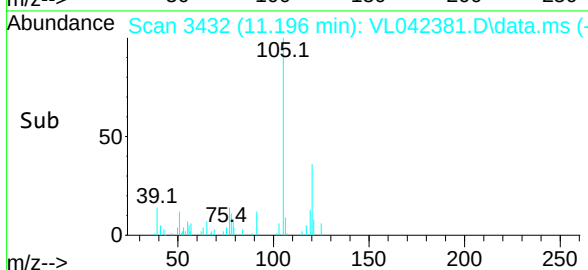
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

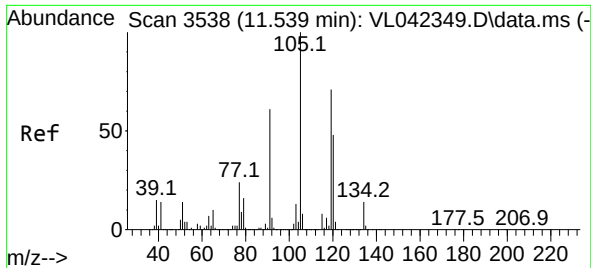


#73
1,3,5-Trimethylbenzene
Concen: 0.135 ppbv
RT: 11.196 min Scan# 3432
Delta R.T. -0.010 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05



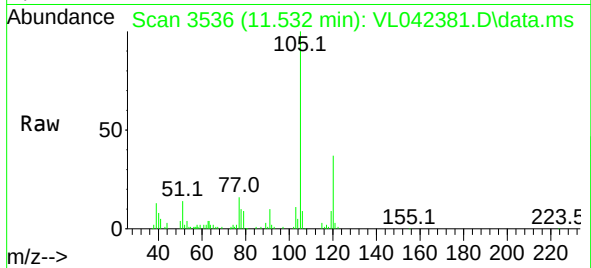
Tgt Ion:105 Resp: 4940
Ion Ratio Lower Upper
105 100
120 36.4 35.6 53.4





#74
 1,2,4-Trimethylbenzene
 Concen: 0.379 ppbv
 RT: 11.532 min Scan# 3536
 Delta R.T. -0.007 min
 Lab File: VL042381.D
 Acq: 18 Apr 2025 04:05

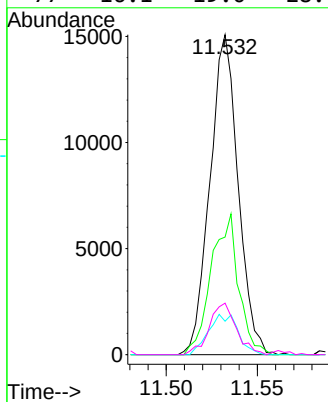
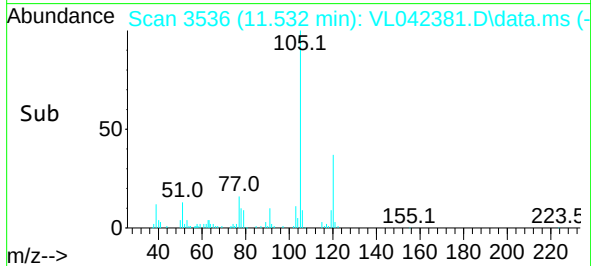
Instrument : MSVOA_L
 ClientSampleId : IA-B2-3-03312025DL



Tgt Ion:	105	Resp:	1621
Ion Ratio	Lower	Upper	
105	100		
120	36.7	38.1	57.1
91	10.5	48.8	73.2
77	16.1	19.0	28.4

Manual Integrations
 APPROVED

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



Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-3-03312025DL2	SDG No.:	Q1726
Lab Sample ID:	Q1726-06DL2	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
VL042392.D	100		04/18/25 15:16	VL041825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	21.0	104	UD	104	247	ug/m3
64-17-5	Ethanol	290	546	DQ	60.3	94.2	ug/m3
74-87-3	Chloromethane	9.80	20.2	UD	20.2	103	ug/m3
75-01-4	Vinyl Chloride	1.40	3.58	UD	3.58	7.67	ug/m3
74-83-9	Bromomethane	14.0	54.4	UD	54.4	194	ug/m3
75-00-3	Chloroethane	17.0	44.9	UD	44.9	132	ug/m3
109-99-9	Tetrahydrofuran	13.0	38.3	UDQ	38.3	147	ug/m3
75-69-4	Trichlorofluoromethane	16.0	89.9	UD	89.9	281	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	16.0	123	UD	123	383	ug/m3
76-14-2	Dichlorotetrafluoroethane	8.80	61.5	UD	61.5	349	ug/m3
593-60-2	Bromoethene	12.0	52.5	UD	52.5	219	ug/m3
75-65-0	tert-Butyl alcohol	19.0	57.6	UD	57.6	152	ug/m3
142-82-5	Heptane	11.0	45.1	UDQ	45.1	205	ug/m3
67-63-0	Isopropyl Alcohol	35.1	86.3	JD	17.0	123	ug/m3
75-35-4	1,1-Dichloroethene	14.0	55.5	UD	55.5	198	ug/m3
67-64-1	Acetone	520	1240	D	57.0	119	ug/m3
75-15-0	Carbon Disulfide	16.0	49.8	UD	49.8	156	ug/m3
1634-04-4	Methyl tert-Butyl Ether	12.0	43.3	UD	43.3	180	ug/m3
75-09-2	Methylene Chloride	19.0	66.0	UD	66.0	174	ug/m3
156-60-5	trans-1,2-Dichloroethene	19.0	75.3	UD	75.3	198	ug/m3
75-34-3	1,1-Dichloroethane	13.0	52.6	UD	52.6	202	ug/m3
110-82-7	Cyclohexane	22.0	75.7	UD	75.7	172	ug/m3
78-93-3	2-Butanone	12.0	35.4	UD	35.4	147	ug/m3
56-23-5	Carbon Tetrachloride	1.10	6.92	UD	6.92	18.9	ug/m3
156-59-2	cis-1,2-Dichloroethene	8.90	35.3	UD	35.3	198	ug/m3
67-66-3	Chloroform	8.30	40.5	UD	40.5	244	ug/m3
71-55-6	1,1,1-Trichloroethane	0.95	5.18	UD	5.18	16.4	ug/m3
540-84-1	2,2,4-Trimethylpentane	10.0	46.7	UD	46.7	234	ug/m3
71-43-2	Benzene	8.70	27.8	UD	27.8	160	ug/m3
107-06-2	1,2-Dichloroethane	9.10	36.8	UD	36.8	202	ug/m3
79-01-6	Trichloroethene	1.70	9.14	UD	9.14	16.1	ug/m3
78-87-5	1,2-Dichloropropane	11.0	50.8	UD	50.8	231	ug/m3
75-27-4	Bromodichloromethane	7.70	51.6	UD	51.6	335	ug/m3
108-10-1	4-Methyl-2-Pentanone	9.30	38.1	UD	38.1	205	ug/m3
108-88-3	Toluene	14.1	53.1	JD	41.5	188	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-3-03312025DL2	SDG No.:	Q1726
Lab Sample ID:	Q1726-06DL2	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
VL042392.D	100		04/18/25 15:16	VL041825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	6.00	27.2	UD	27.2	227	ug/m3
10061-01-5	cis-1,3-Dichloropropene	6.40	29.1	UD	29.1	227	ug/m3
79-00-5	1,1,2-Trichloroethane	7.10	38.7	UD	38.7	273	ug/m3
124-48-1	Dibromochloromethane	6.60	56.2	UD	56.2	426	ug/m3
106-93-4	1,2-Dibromoethane	7.20	55.3	UD	55.3	76.8	ug/m3
127-18-4	Tetrachloroethene	1.50	10.2	UD	10.2	20.3	ug/m3
108-90-7	Chlorobenzene	7.60	35.0	UD	35.0	230	ug/m3
100-41-4	Ethyl Benzene	12.0	52.1	UD	52.1	217	ug/m3
179601-23-1	m/p-Xylene	21.0	91.2	UD	91.2	434	ug/m3
95-47-6	o-Xylene	12.0	52.1	UD	52.1	217	ug/m3
100-42-5	Styrene	11.0	46.8	UD	46.8	213	ug/m3
75-25-2	Bromoform	5.70	58.9	UD	58.9	517	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	1.10	7.55	UD	7.55	20.6	ug/m3
95-49-8	2-Chlorotoluene	11.0	57.0	UD	57.0	259	ug/m3
108-67-8	1,3,5-Trimethylbenzene	11.0	54.1	UD	54.1	246	ug/m3
95-63-6	1,2,4-Trimethylbenzene	7.80	38.4	UD	38.4	246	ug/m3
541-73-1	1,3-Dichlorobenzene	8.00	48.1	UD	48.1	301	ug/m3
106-46-7	1,4-Dichlorobenzene	5.30	31.9	UD	31.9	301	ug/m3
95-50-1	1,2-Dichlorobenzene	7.50	45.1	UD	45.1	301	ug/m3
120-82-1	1,2,4-Trichlorobenzene	8.50	63.1	UD	63.1	371	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	8.50	90.7	UD	90.7	533	ug/m3
106-99-0	1,3-Butadiene	13.0	28.8	UD	28.8	111	ug/m3
91-20-3	Naphthalene	7.50	39.3	UD	39.3	52.4	ug/m3
622-96-8	4-Ethyltoluene	12.0	59.0	UD	59.0	246	ug/m3
110-54-3	Hexane	11.0	38.8	UD	38.8	176	ug/m3
107-05-1	Allyl Chloride	15.0	47.0	UD	47.0	157	ug/m3
123-91-1	1,4-Dioxane	21.0	75.7	UD	75.7	180	ug/m3
80-62-6	Methyl Methacrylate	8.60	35.2	UDQ	35.2	205	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	122000	2.791
540-36-3	1,4-Difluorobenzene	380000	3.966
3114-55-4	Chlorobenzene-d5	325000	8.885

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-3-03312025DL2	SDG No.:	Q1726
Lab Sample ID:	Q1726-06DL2	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
VL042392.D	100		04/18/25 15:16	VL041825

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\VL041825\
 Data File : VL042392.D
 Acq On : 18 Apr 2025 15:16
 Operator : SY/MD
 Sample : Q1726-06DL2 100X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-3-03312025DL2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2025
 Supervised By :Mahesh Dadoda 04/21/2025

Quant Time: Apr 18 23:00:07 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	2.791	49	121646	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.966	114	379829	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	325040	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.381	95	267080	9.999	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.000%
Target Compounds						
					Qvalue	
13) Ethanol	1.723	45	4246	2.866	ppbv #	24
15) Acetone	1.839	43	102862	5.165	ppbv	98
19) Isopropyl Alcohol	1.888	45	3881	0.351	ppbv #	1
53) Toluene	6.940	91	6938m	0.141	ppbv	

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

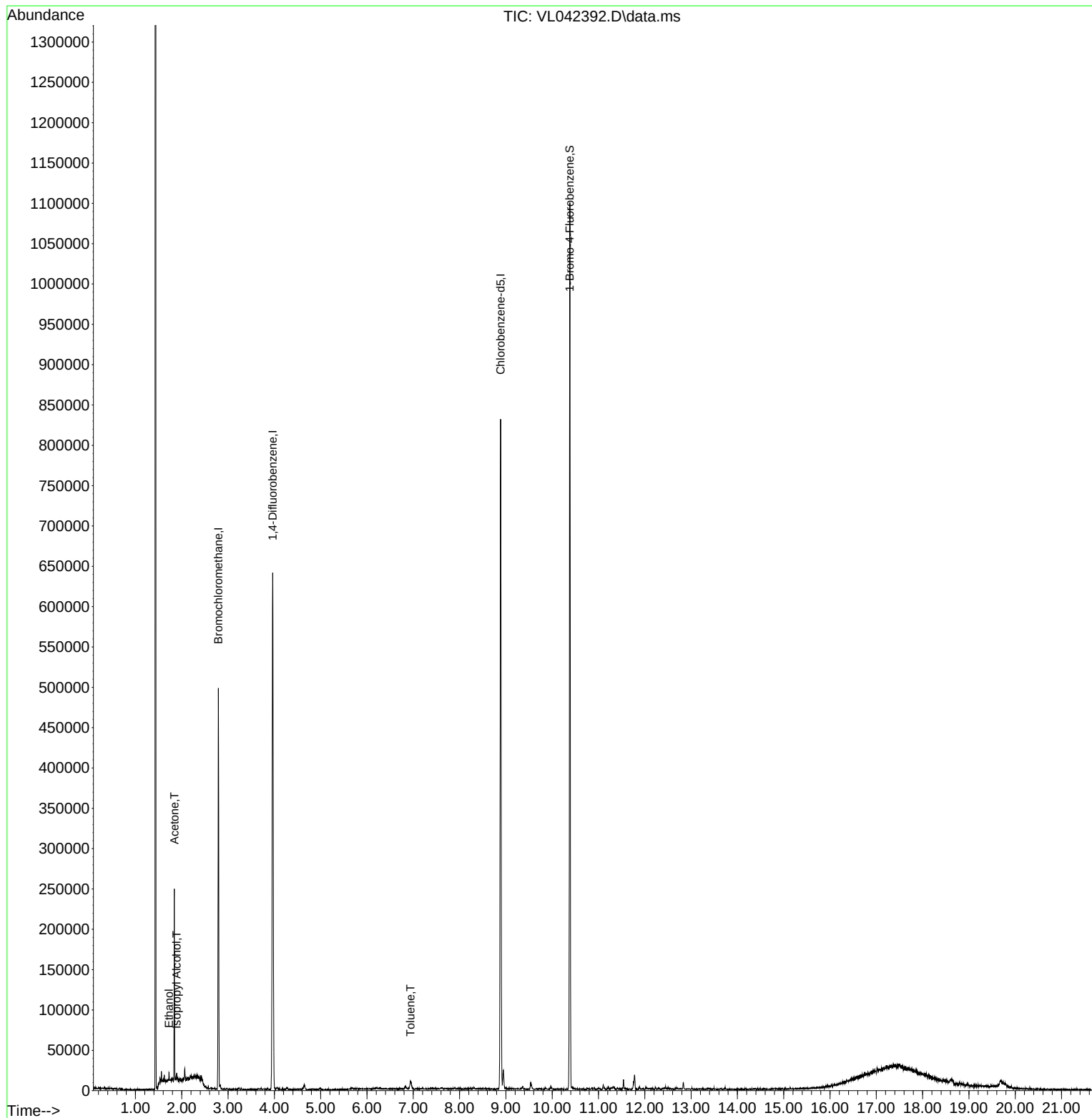
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
Data File : VL042392.D
Acq On : 18 Apr 2025 15:16
Operator : SY/MD
Sample : Q1726-06DL2 100X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

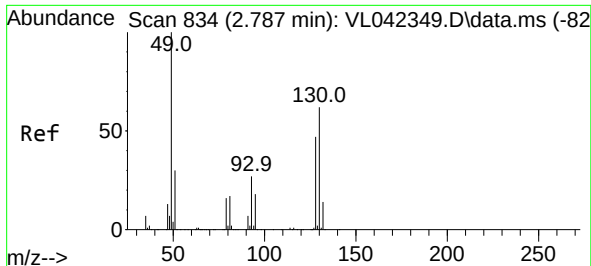
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL2

Quant Time: Apr 18 23:00:07 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 04/21/2025
Supervised By : Mahesh Dadoda 04/21/2025





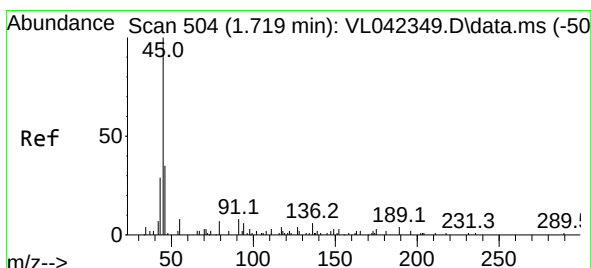
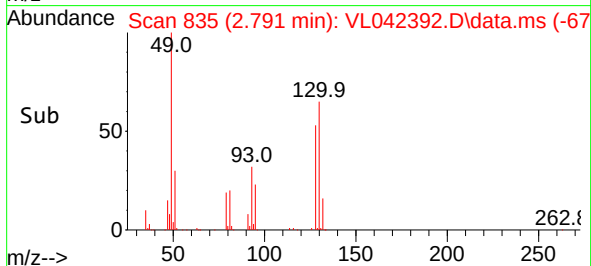
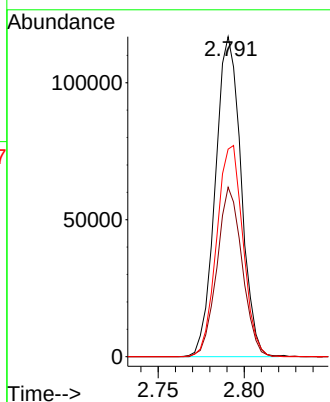
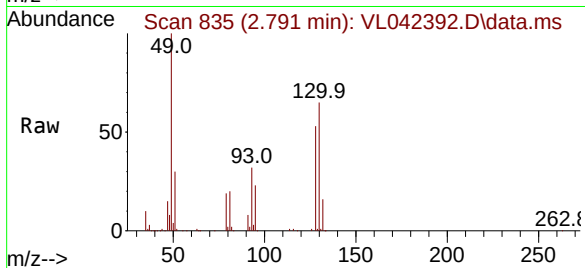
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.791 min Scan# 81
Delta R.T. 0.004 min
Lab File: VL042392.D
Acq: 18 Apr 2025 15:16

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL2

Tgt Ion: 49 Resp: 121640
Ion Ratio Lower Upper
49 100
128 51.9 22.8 68.4
130 67.3 29.3 88.0

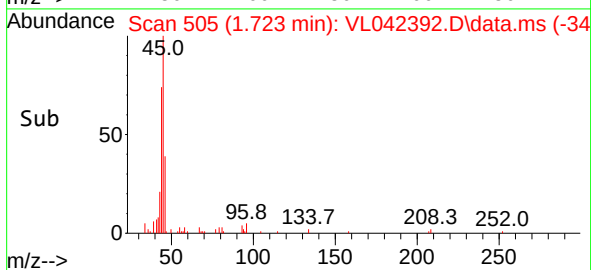
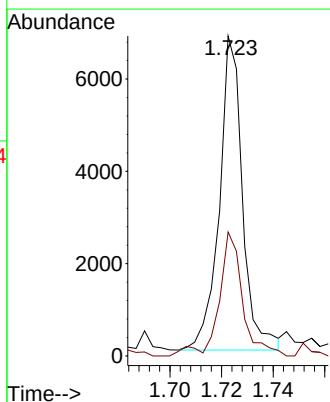
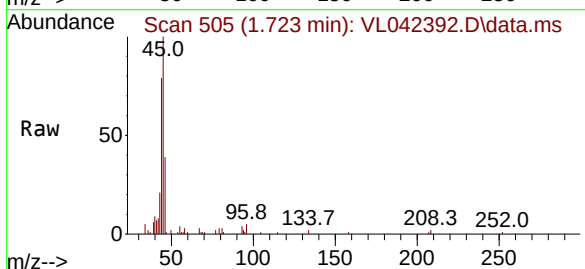
Manual Integrations
APPROVED

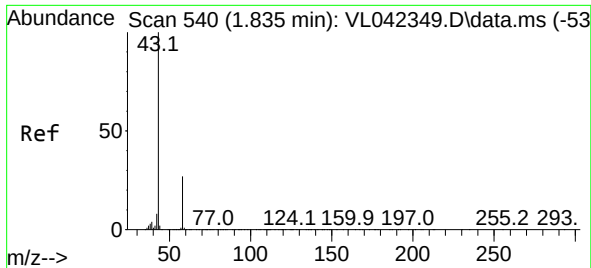
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025



#13
Ethanol
Concen: 2.866 ppbv
RT: 1.723 min Scan# 505
Delta R.T. 0.004 min
Lab File: VL042392.D
Acq: 18 Apr 2025 15:16

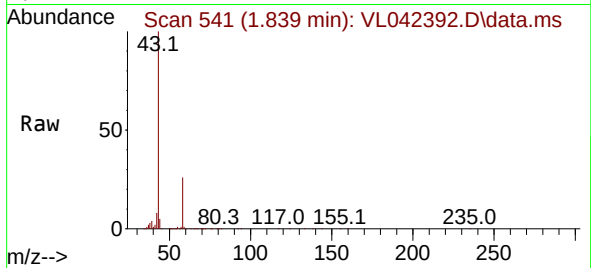
Tgt Ion: 45 Resp: 4246
Ion Ratio Lower Upper
45 100
46 0.0 21.9 87.7#





#15
Acetone
Concen: 5.165 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.004 min
Lab File: VL042392.D
Acq: 18 Apr 2025 15:16

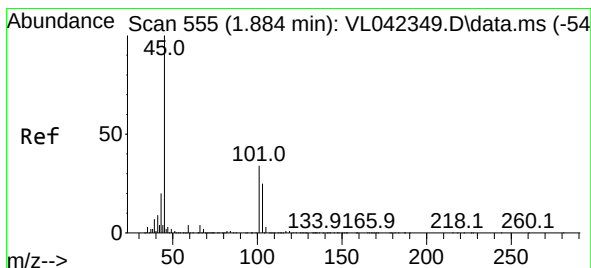
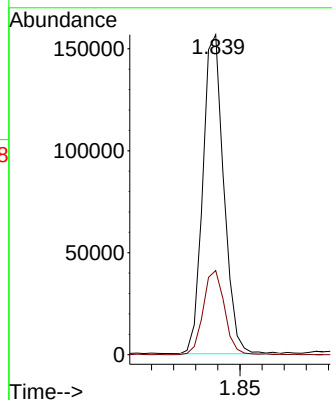
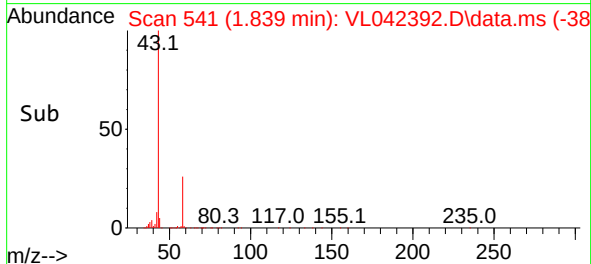
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL2



Tgt Ion: 43 Resp: 102862
Ion Ratio Lower Upper
43 100
58 27.1 22.4 33.6

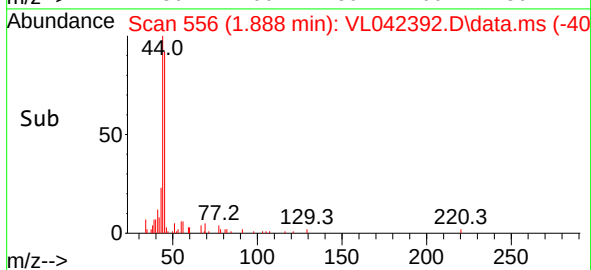
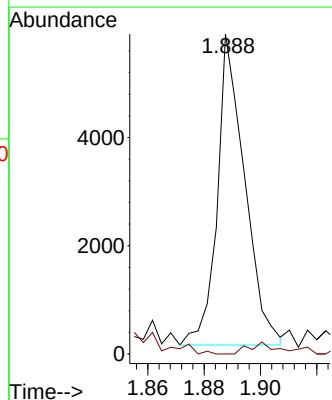
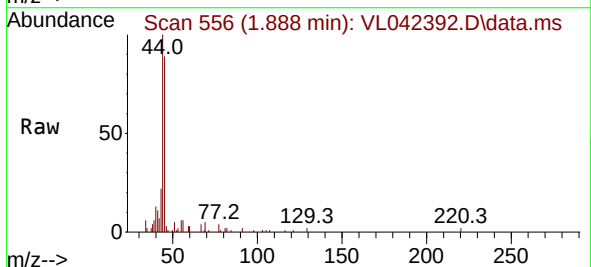
Manual Integrations
APPROVED

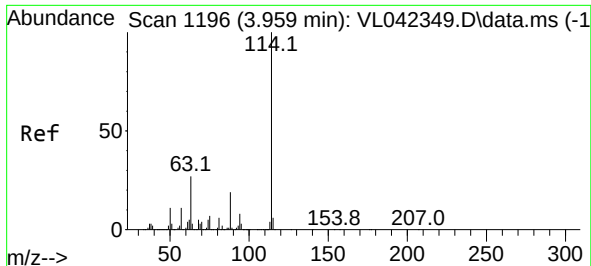
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025



#19
Isopropyl Alcohol
Concen: 0.351 ppbv
RT: 1.888 min Scan# 556
Delta R.T. 0.004 min
Lab File: VL042392.D
Acq: 18 Apr 2025 15:16

Tgt Ion: 45 Resp: 3881
Ion Ratio Lower Upper
45 100
58 717.0 34.5 51.7#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.966 min Scan# 1198

Delta R.T. 0.007 min

Lab File: VL042392.D

Acq: 18 Apr 2025 15:16

Instrument :

MSVOA_L

ClientSampleId :

IA-B2-3-03312025DL2

Tgt Ion:114 Resp: 379829

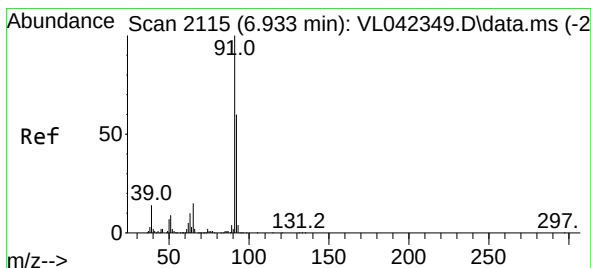
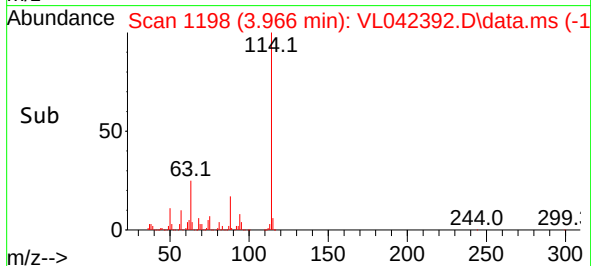
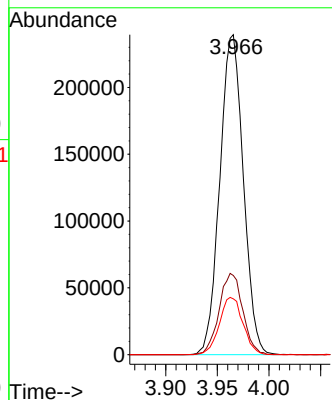
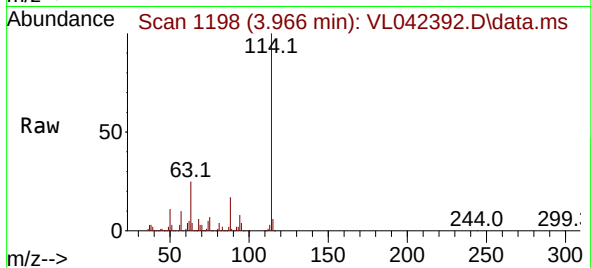
Ion	Ratio	Lower	Upper
114	100		
63	25.5	21.8	32.6
88	17.9	15.5	23.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2025

Supervised By :Mahesh Dadoda 04/21/2025



#53

Toluene

Concen: 0.141 ppbv m

RT: 6.940 min Scan# 2117

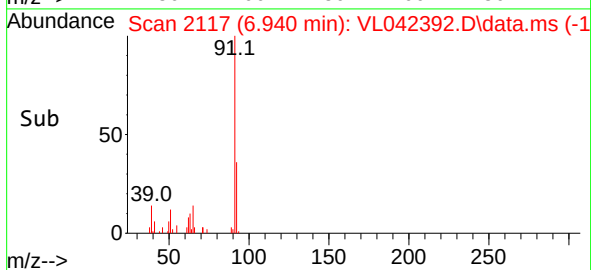
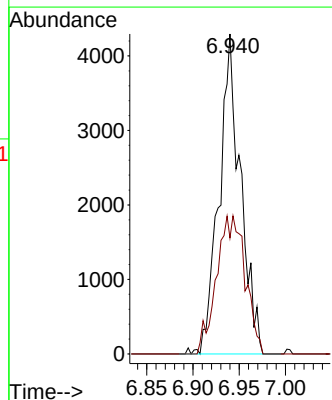
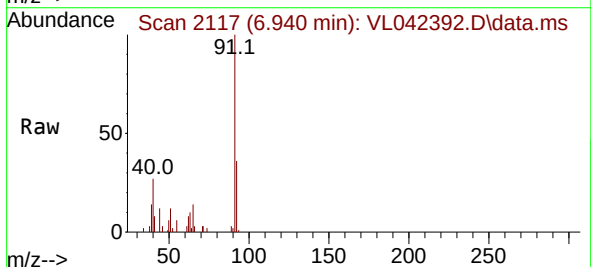
Delta R.T. 0.007 min

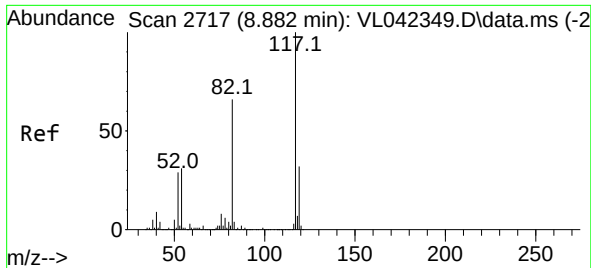
Lab File: VL042392.D

Acq: 18 Apr 2025 15:16

Tgt Ion: 91 Resp: 6938

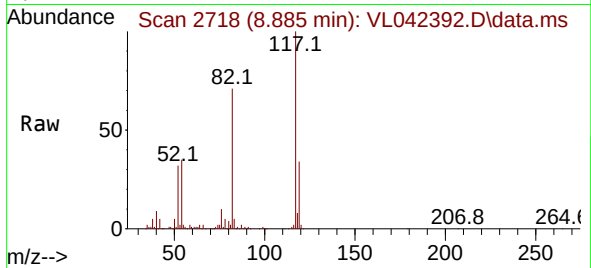
Ion	Ratio	Lower	Upper
91	100		
92	57.6	48.2	72.4





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 21
Delta R.T. 0.004 min
Lab File: VL042392.D
Acq: 18 Apr 2025 15:16

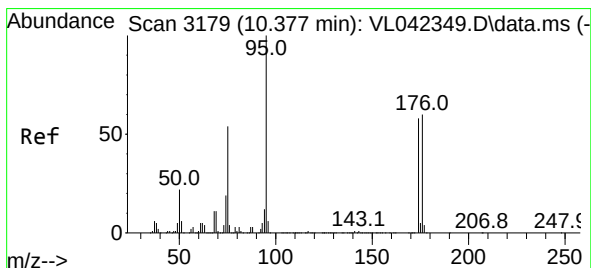
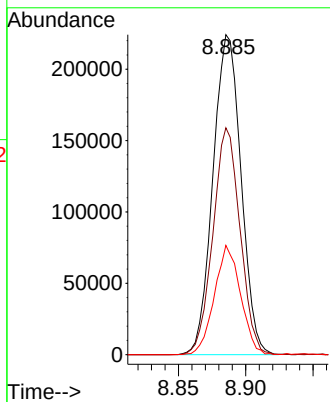
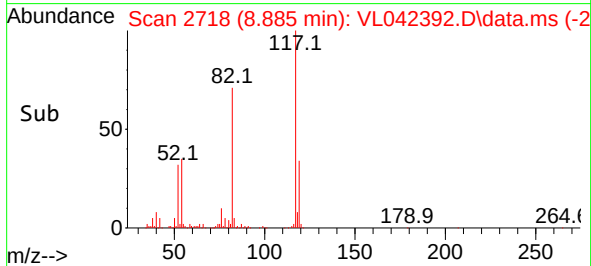
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL2



Tgt Ion: 117 Resp: 325040
Ion Ratio Lower Upper
117 100
82 68.5 57.8 86.6
119 32.0 25.2 37.8

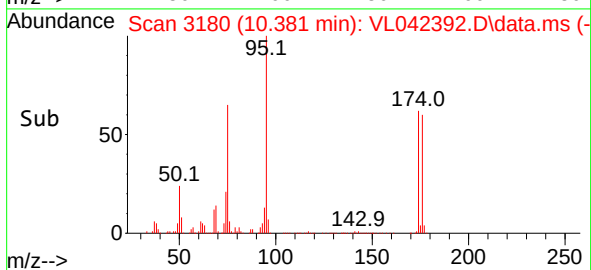
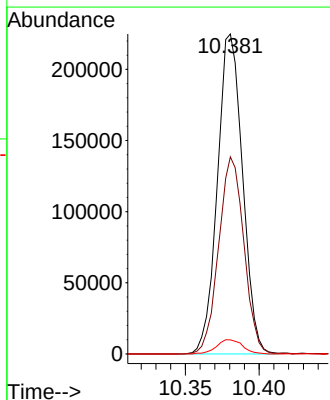
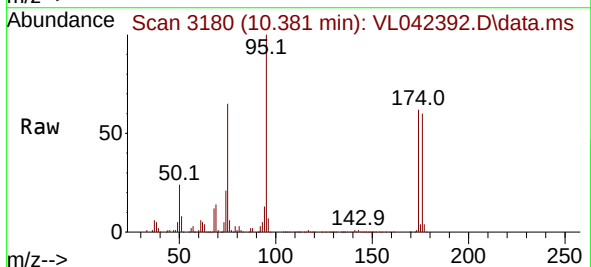
Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.999 ppbv
RT: 10.381 min Scan# 3180
Delta R.T. 0.004 min
Lab File: VL042392.D
Acq: 18 Apr 2025 15:16

Tgt Ion: 95 Resp: 267080
Ion Ratio Lower Upper
95 100
174 61.9 48.5 72.7
175 4.6 3.7 5.5



Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-4-03312025	SDG No.:	Q1726
Lab Sample ID:	Q1726-07	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
VL042372.D	1		04/17/25 23:26	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	0.51	2.52		1.04	2.47	ug/m3
64-17-5	Ethanol	320	603	EQ	0.60	0.94	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	0.27	1.52	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
593-60-2	Bromoethene	0.12	0.52	U	0.52	2.19	ug/m3
75-65-0	tert-Butyl alcohol	0.74	2.24		0.58	1.52	ug/m3
142-82-5	Heptane	4.20	17.2		0.45	2.05	ug/m3
67-63-0	Isopropyl Alcohol	34.3	84.3	E	0.17	1.23	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
67-64-1	Acetone	170	404	E	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	2.70	9.38		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	1.30	4.47		0.76	1.72	ug/m3
78-93-3	2-Butanone	1.20	3.54		0.35	1.47	ug/m3
56-23-5	Carbon Tetrachloride	0.090	0.57		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	0.11	0.54	J	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	10.6	49.5		0.47	2.34	ug/m3
71-43-2	Benzene	1.10	3.51		0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.21	0.85	J	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	0.42	1.72	J	0.37	2.05	ug/m3
108-88-3	Toluene	26.5	99.9	E	0.41	1.88	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-4-03312025	SDG No.:	Q1726
Lab Sample ID:	Q1726-07	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
VL042372.D	1		04/17/25 23:26	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
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
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	0.13	0.88		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	5.10	22.1		0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	17.5	76.0		0.91	4.34	ug/m3
95-47-6	o-Xylene	6.90	30.0		0.52	2.17	ug/m3
100-42-5	Styrene	0.37	1.58	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	1.40	7.25		0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	3.30	16.2		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	0.080	0.48	U	0.48	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	0.36	2.16	J	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	0.58	3.04		0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	2.70	13.3		0.59	2.46	ug/m3
110-54-3	Hexane	3.80	13.4		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	110000	2.787
540-36-3	1,4-Difluorobenzene	317000	3.956
3114-55-4	Chlorobenzene-d5	275000	8.879

TENTATIVE IDENTIFIED COMPOUNDS

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-4-03312025	SDG No.:	Q1726
Lab Sample ID:	Q1726-07	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
VL042372.D	1		04/17/25 23:26	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
75-45-6	Chlorodifluoromethane	0.22		J		1.47	ppbv
115-07-1	Propene	2.90		J		1.49	ppbv
000106-97-8	Butane	8.90		J		1.62	ppbv
000071-23-8	1-Propanol	5.00		J		2.27	ppbv
000107-83-5	Pentane, 2-methyl-	4.10		J		2.47	ppbv
000591-76-4	Hexane, 2-methyl-	5.40		J		4.05	ppbv
000589-34-4	Hexane, 3-methyl-	5.80		J		4.27	ppbv
000108-87-2	Cyclohexane, methyl-	5.00		J		5.66	ppbv
000565-75-3	Pentane, 2,3,4-trimethyl-	7.10		J		6.82	ppbv
035852-47-2	4-Methylpentyl pentanoate	4.70		J		7.60	ppbv
000111-65-9	Octane	5.10		J		8.30	ppbv
98-82-8	Isopropylbenzene	0.50		J		10.5	ppbv
103-65-1	n-propylbenzene	1.70		J		11.0	ppbv
135-98-8	sec-Butylbenzene	0.12		J		11.8	ppbv
99-87-6	p-Isopropyltoluene	0.55		J		11.9	ppbv
104-51-8	n-Butylbenzene	0.54		J		12.3	ppbv
013450-73-2	11H-Dibenzo[b,e][1,4]diazepin-11-o	4.30		J		13.4	ppbv
91-57-6	Naphthalene,2-methyl-	0.21		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 : VL042372.D
 Acq On : 17 Apr 2025 23:26
 Operator : SY/MD
 Sample : Q1726-07
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-4-03312025

Manual Integrations
 APPROVED

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

Quant Time: Apr 18 02:46:43 2025

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

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 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	110448	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.956	114	317011	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.879	117	275197	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	229240	10.137	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.400%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	9928	0.509	ppbv	92
3) Chlorodifluoromethane	1.473	51	4119m	0.222	ppbv	
4) Chloromethane	1.531	50	4664	0.604	ppbv	95
9) Propene	1.486	41	24901m	2.943	ppbv	
10) Heptane	4.978	43	98760	4.154	ppbv	99
11) Trichlorofluoromethane	1.875	101	5086	0.274	ppbv	100
13) Ethanol	1.719	45	434403	322.963	ppbv	75
15) Acetone	1.832	43	3068967	169.738	ppbv #	45
17) tert-Butyl alcohol	2.043	59	16507m	0.737	ppbv	
19) Isopropyl Alcohol	1.884	45	344907	34.339	ppbv #	33
20) Methylene Chloride	2.062	84	19413	2.742	ppbv	97
26) Hexane	2.823	57	68262	3.784	ppbv #	38
29) Chloroform	2.846	83	2771m	0.109	ppbv	
30) Cyclohexane	3.855	84	18963	1.300	ppbv	93
34) 2-Butanone	2.557	43	29844	1.190	ppbv	96
35) Carbon Tetrachloride	3.758	117	2428m	0.085	ppbv	
36) Benzene	3.651	78	38575	1.128	ppbv	95
37) 1,2-Dichloroethane	3.218	62	4357	0.212	ppbv #	93
44) 2,2,4-Trimethylpentane	4.639	57	623779	10.563	ppbv	95
50) 4-Methyl-2-Pentanone	5.762	43	17333m	0.416	ppbv	
52) Tetrachloroethene	8.222	164	1704m	0.129	ppbv	
53) Toluene	6.933	91	1085281	26.450	ppbv	99
58) Ethyl Benzene	9.351	91	277437	5.088	ppbv	100
59) m/p-Xylene	9.529	91	770401	17.539	ppbv	99
60) o-Xylene	9.963	91	305451	6.906	ppbv	98
61) Styrene	9.872	104	7737	0.366	ppbv	91
62) Isopropylbenzene	10.536	105	32373	0.499	ppbv	99
64) n-propylbenzene	10.986	120	27039	1.657	ppbv	87
67) sec-Butylbenzene	11.766	105	10233	0.123	ppbv #	60
69) p-Isopropyltoluene	11.924	119	39473	0.547	ppbv	95
70) n-Butylbenzene	12.280	91	40596m	0.540	ppbv	
71) 2-Chlorotoluene	10.902	91	70326	1.381	ppbv	100
72) 4-Ethyltoluene	11.122	105	146733	2.714	ppbv #	56
73) 1,3,5-Trimethylbenzene	11.203	105	156177	3.271	ppbv	98
74) 1,2,4-Trimethylbenzene	11.536	105	502862	9.018	ppbv #	64
76) 1,4-Dichlorobenzene	11.669	146	10548	0.362	ppbv #	80
79) Naphthalene	13.513	128	38387	0.576	ppbv	96
80) Naphthalene,2-methyl-	14.459	142	7927	0.209	ppbv #	89

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

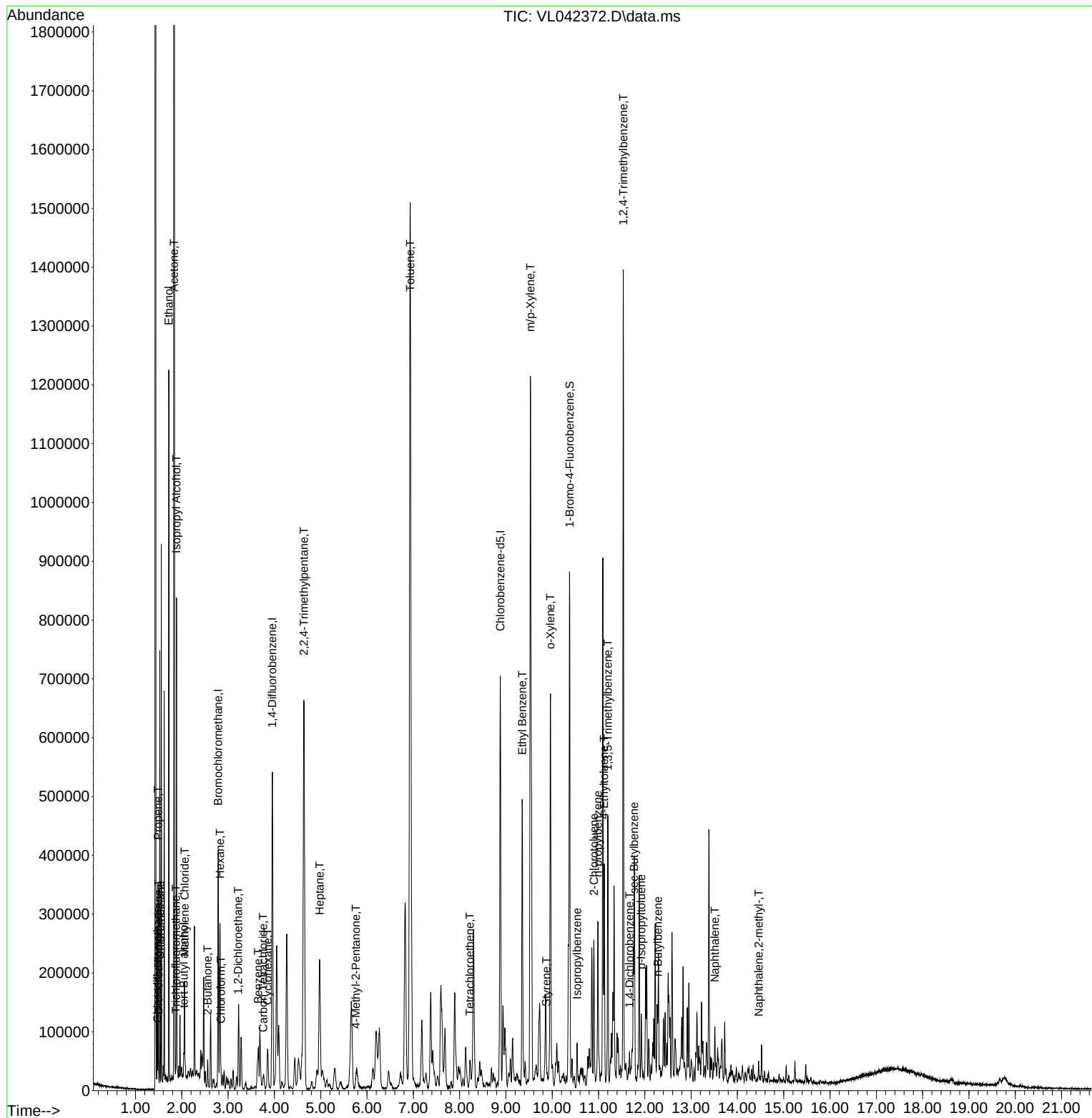
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042372.D
Acq On : 17 Apr 2025 23:26
Operator : SY/MD
Sample : Q1726-07
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

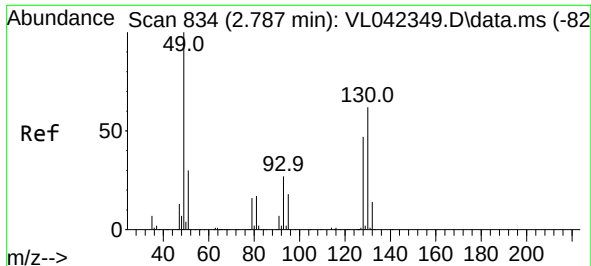
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

Manual Integrations
APPROVED

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

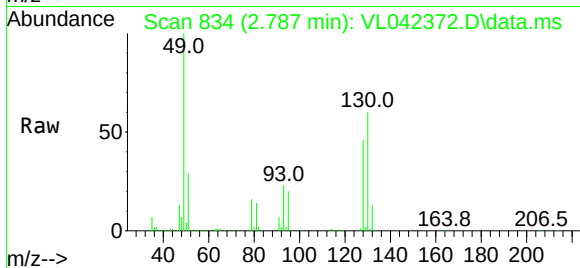
Quant Time: Apr 18 02:46:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 834
Delta R.T. 0.000 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

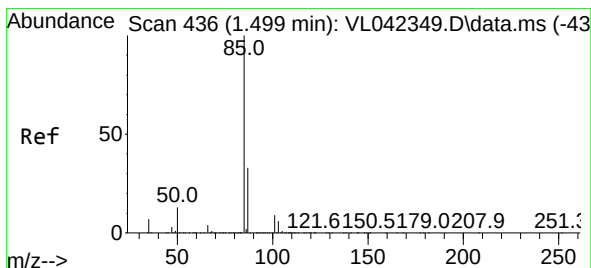
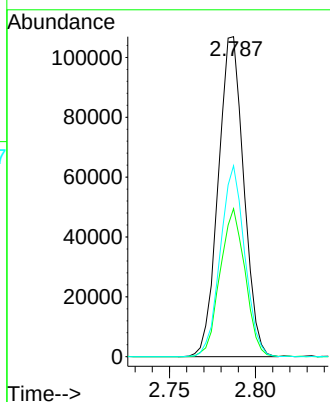
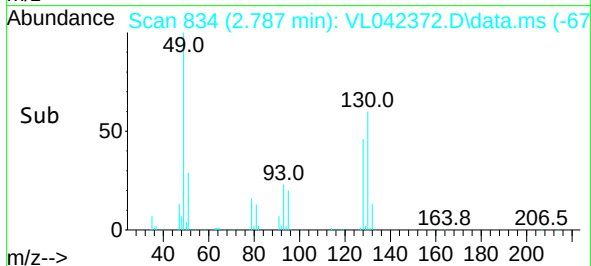
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025



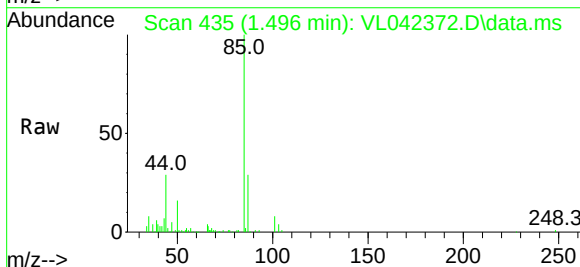
Tgt Ion: 49 Resp: 110448
Ion Ratio Lower Upper
49 100
128 45.3 22.8 68.4
130 57.0 29.3 88.0

Manual Integrations
APPROVED

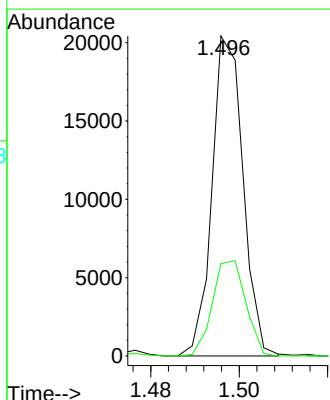
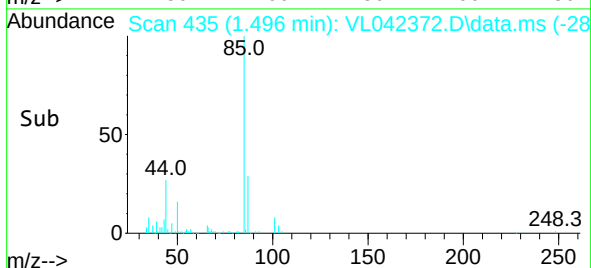
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

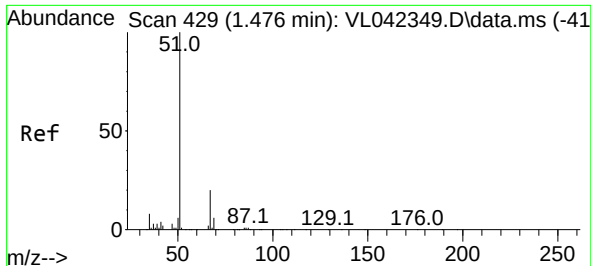


#2
Dichlorodifluoromethane
Concen: 0.509 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26



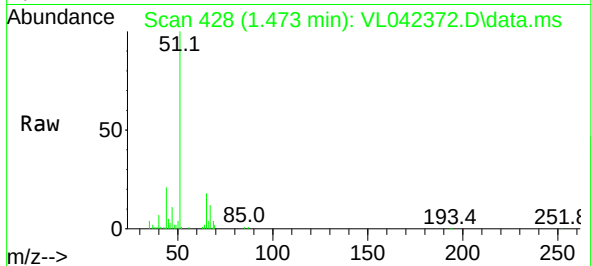
Tgt Ion: 85 Resp: 9928
Ion Ratio Lower Upper
85 100
87 28.9 26.6 39.8





#3
Chlorodifluoromethane
Concen: 0.222 ppbv m
RT: 1.473 min Scan# 419
Delta R.T. -0.003 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

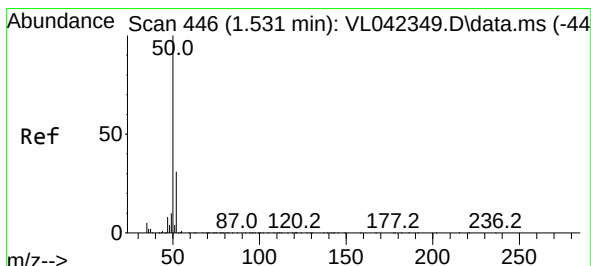
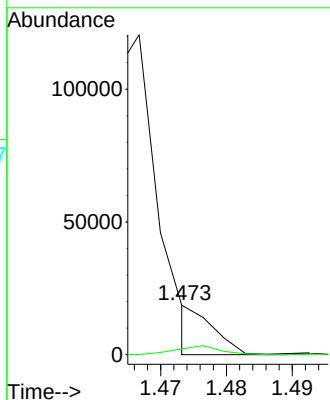
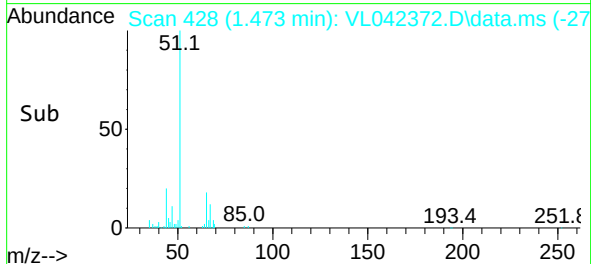
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025



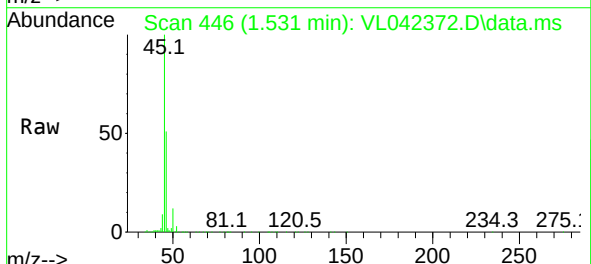
Tgt Ion: 51 Resp: 4119
Ion Ratio Lower Upper
51 100
67 44.6 16.2 24.4

Manual Integrations
APPROVED

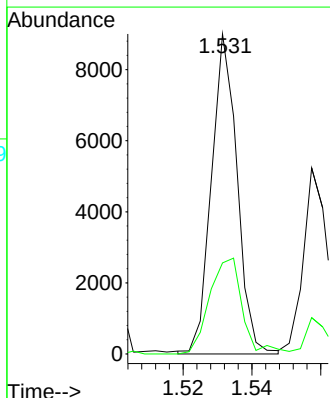
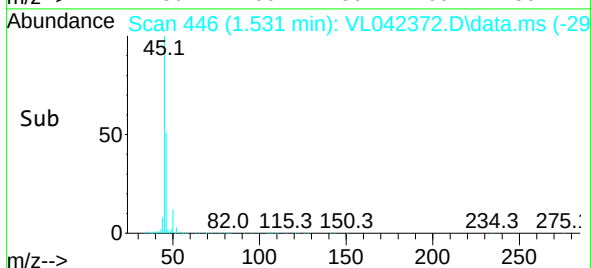
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

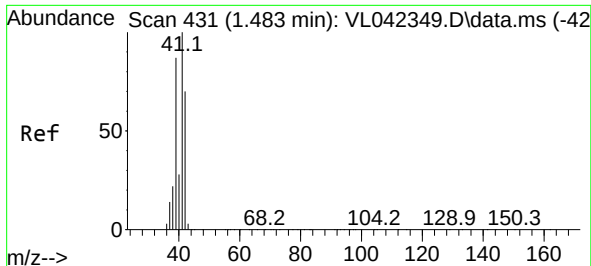


#4
Chloromethane
Concen: 0.604 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26



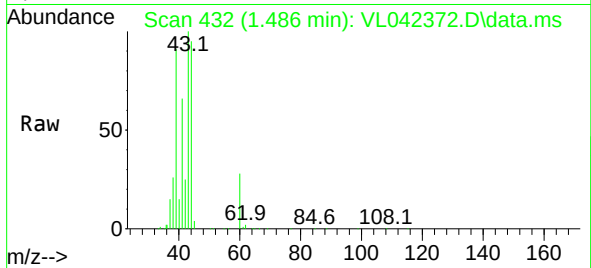
Tgt Ion: 50 Resp: 4664
Ion Ratio Lower Upper
50 100
52 27.9 24.7 37.1





#9
 Propene
 Concen: 2.943 ppbv m
 RT: 1.486 min Scan# 41
 Delta R.T. 0.004 min
 Lab File: VL042372.D
 Acq: 17 Apr 2025 23:26

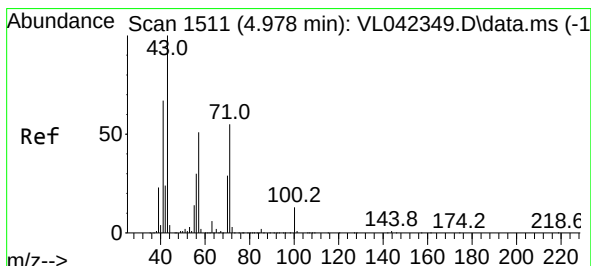
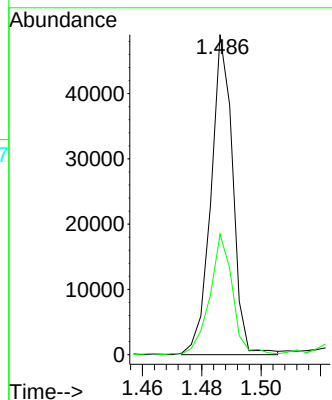
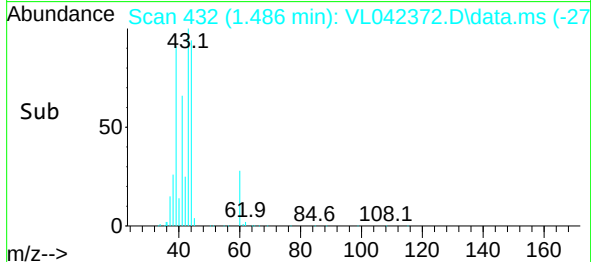
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-4-03312025



Tgt Ion: 41 Resp: 2490
 Ion Ratio Lower Upper
 41 100
 42 260.6 56.2 84.4

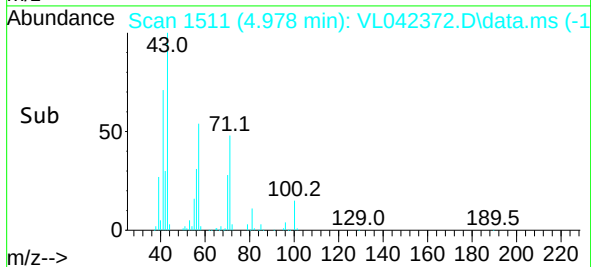
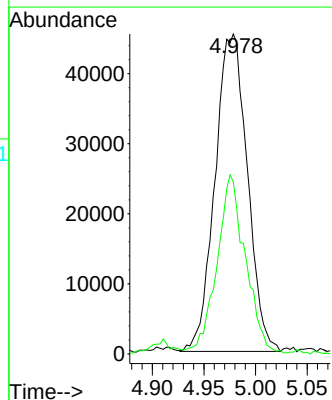
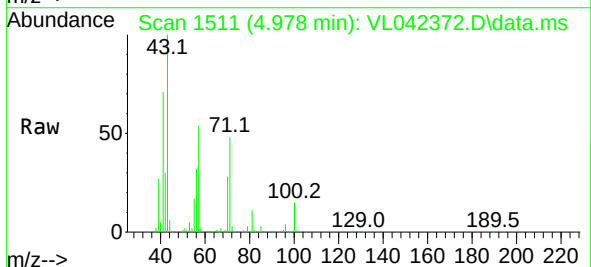
Manual Integrations
 APPROVED

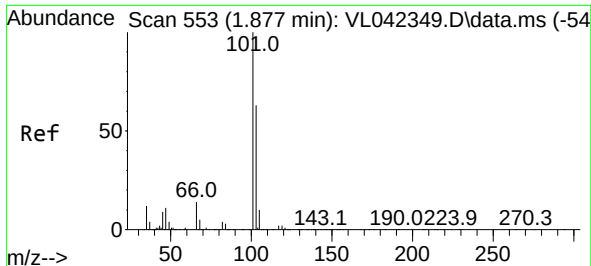
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#10
 Heptane
 Concen: 4.154 ppbv
 RT: 4.978 min Scan# 1511
 Delta R.T. 0.000 min
 Lab File: VL042372.D
 Acq: 17 Apr 2025 23:26

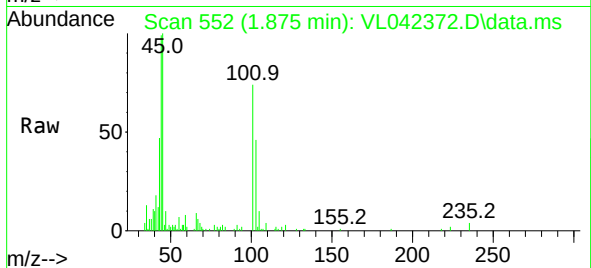
Tgt Ion: 43 Resp: 98760
 Ion Ratio Lower Upper
 43 100
 57 50.3 39.9 59.9





#11
Trichlorofluoromethane
Concen: 0.274 ppbv
RT: 1.875 min Scan# 511
Delta R.T. -0.003 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

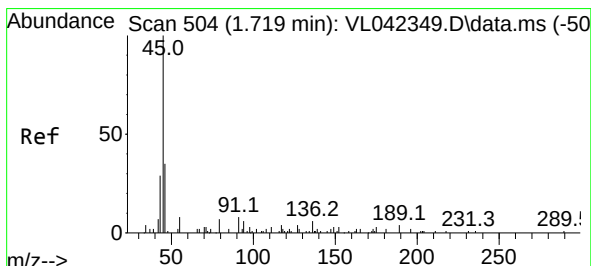
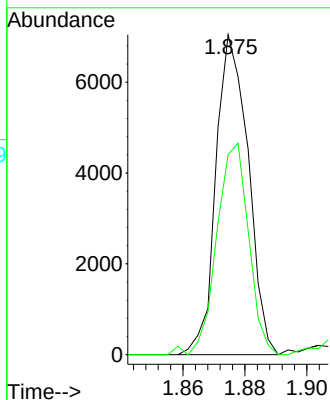
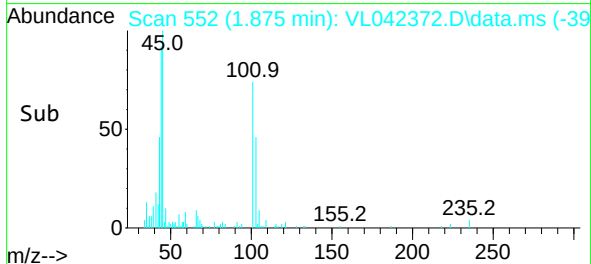
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025



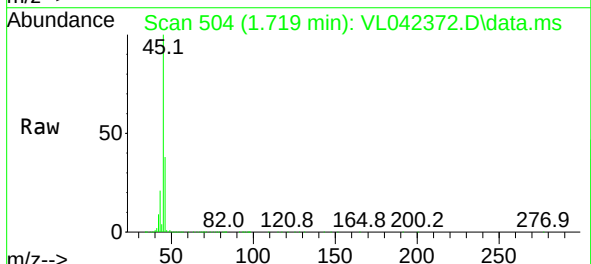
Tgt Ion:101 Resp: 5080
Ion Ratio Lower Upper
101 100
103 62.5 50.1 75.1

Manual Integrations
APPROVED

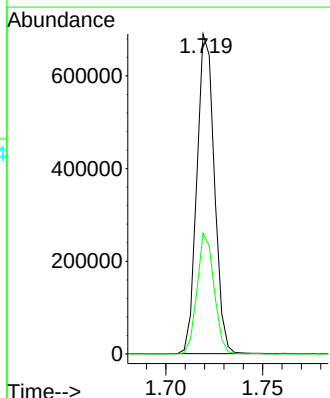
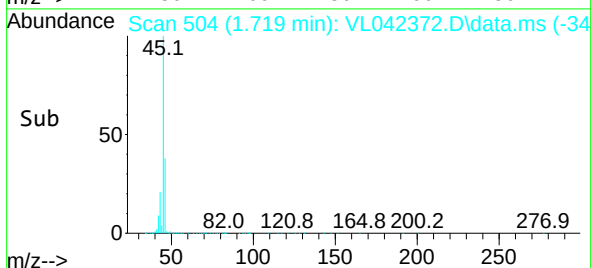
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

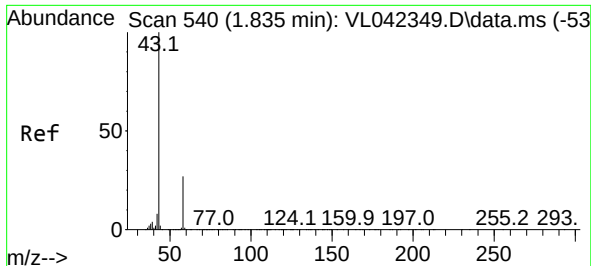


#13
Ethanol
Concen: 322.963 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26



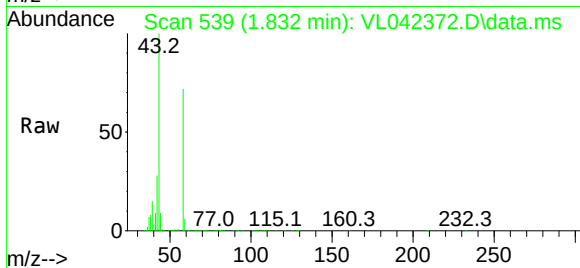
Tgt Ion: 45 Resp: 434403
Ion Ratio Lower Upper
45 100
46 36.8 21.9 87.7





#15
Acetone
Concen: 169.738 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.003 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

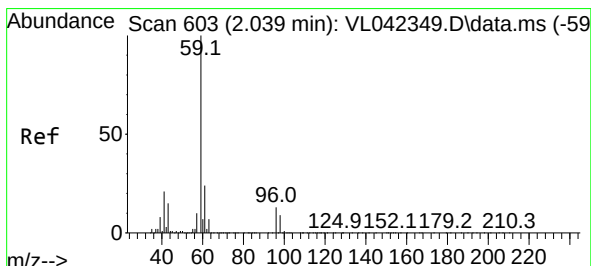
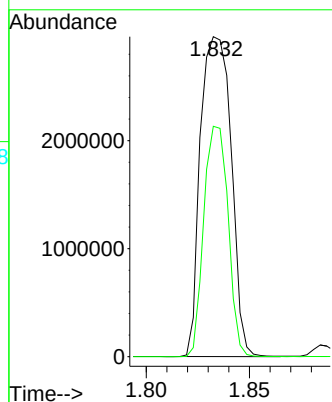
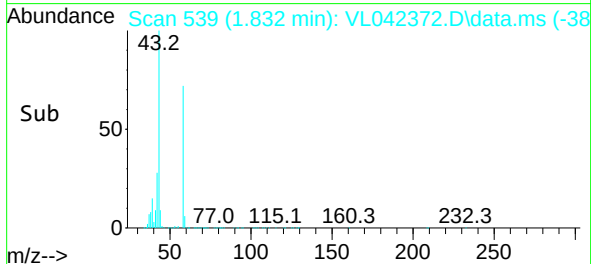
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025



Tgt Ion: 43 Resp: 306896
Ion Ratio Lower Upper
43 100
58 56.8 22.4 33.6

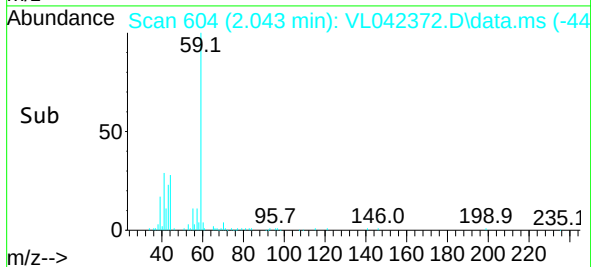
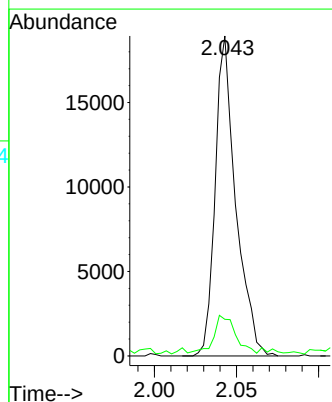
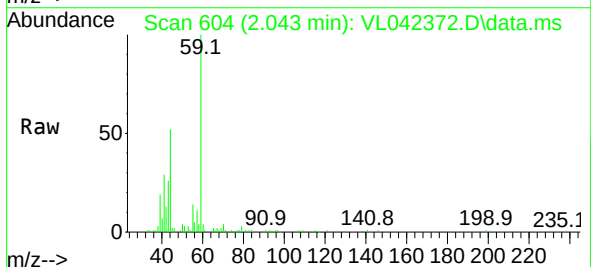
Manual Integrations
APPROVED

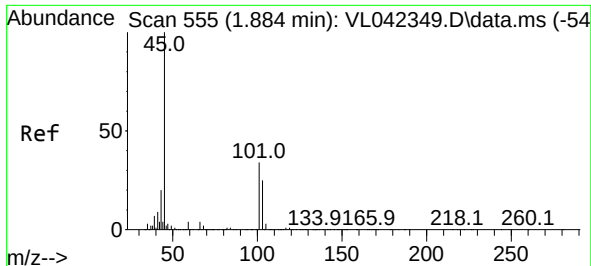
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#17
tert-Butyl alcohol
Concen: 0.737 ppbv m
RT: 2.043 min Scan# 604
Delta R.T. 0.004 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

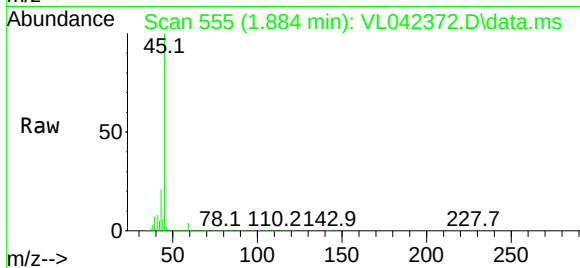
Tgt Ion: 59 Resp: 16507
Ion Ratio Lower Upper
59 100
57 27.4 8.7 13.1#





#19
Isopropyl Alcohol
Concen: 34.339 ppbv
RT: 1.884 min Scan# 511
Delta R.T. 0.000 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

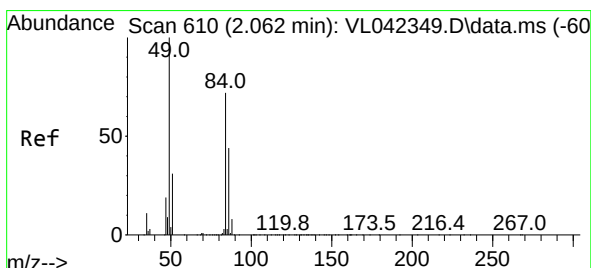
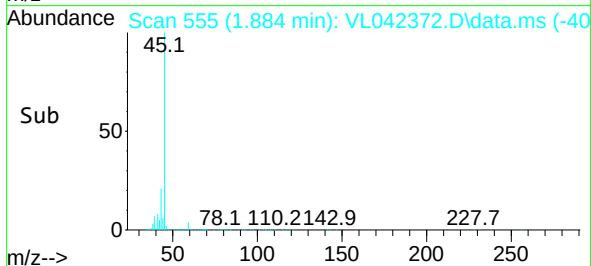
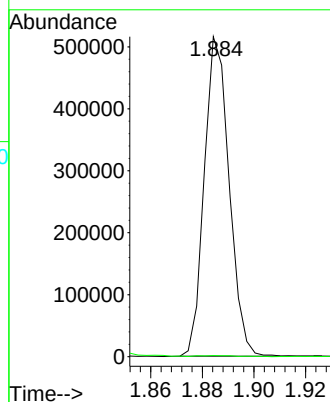
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025



Tgt Ion: 45 Resp: 344907
Ion Ratio Lower Upper
45 100
58 0.0 34.5 51.7

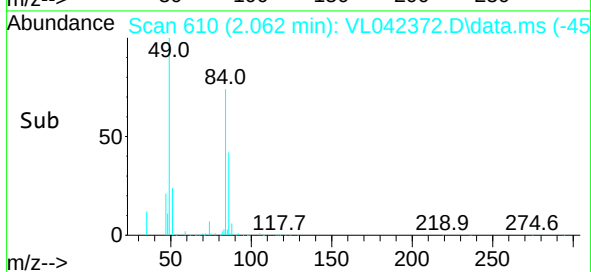
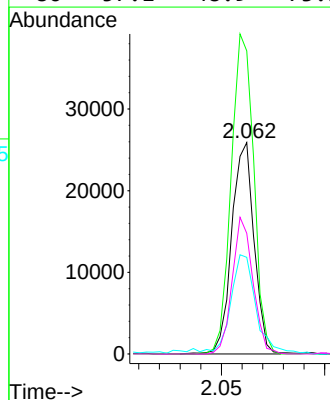
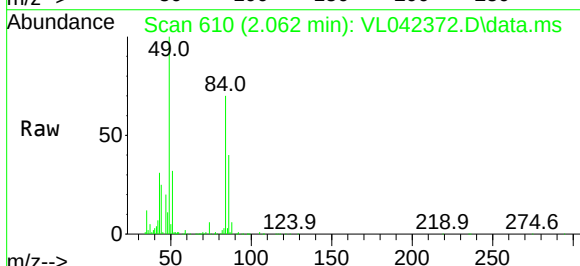
Manual Integrations
APPROVED

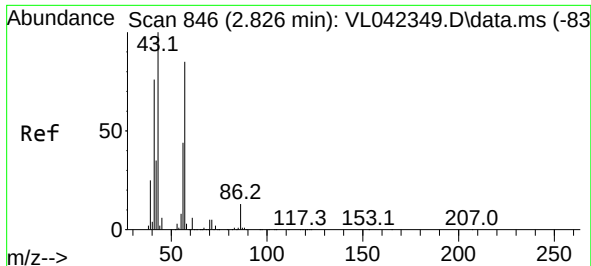
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#20
Methylene Chloride
Concen: 2.742 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

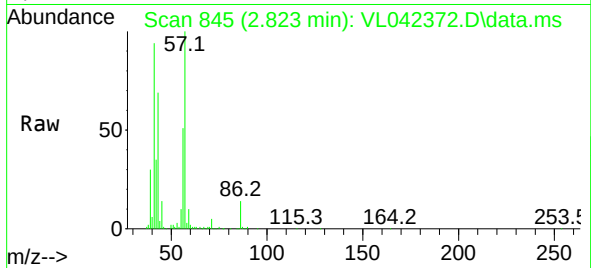
Tgt Ion: 84 Resp: 19413
Ion Ratio Lower Upper
84 100
49 143.4 111.6 167.4
51 44.2 35.1 52.7
86 57.1 48.9 73.3





#26
Hexane
Concen: 3.784 ppbv
RT: 2.823 min Scan# 846
Delta R.T. -0.003 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

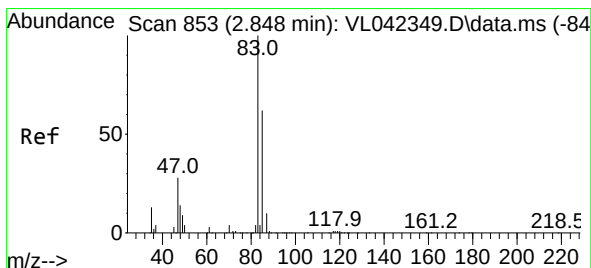
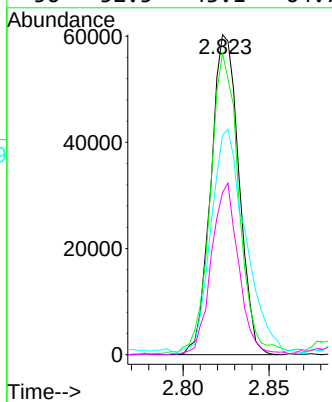
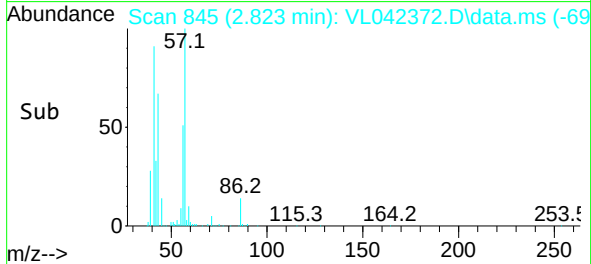
Instrument : MSVOA_L
ClientSampleId : IA-B2-4-03312025



Tgt Ion: 57 Resp: 68262
Ion Ratio Lower Upper
57 100
41 96.5 77.9 116.9
43 86.0 208.4 312.6
56 52.5 43.1 64.7

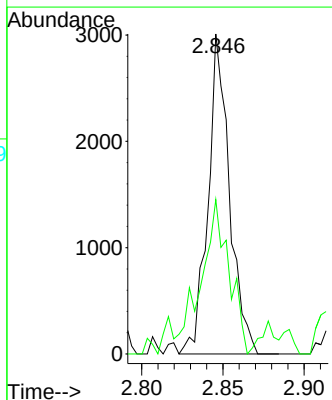
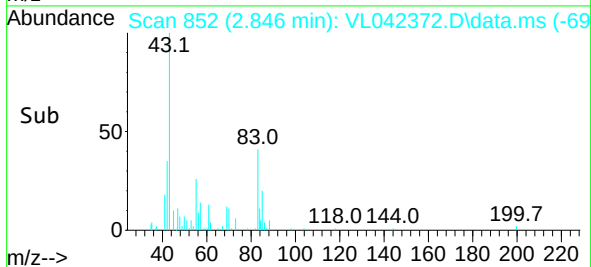
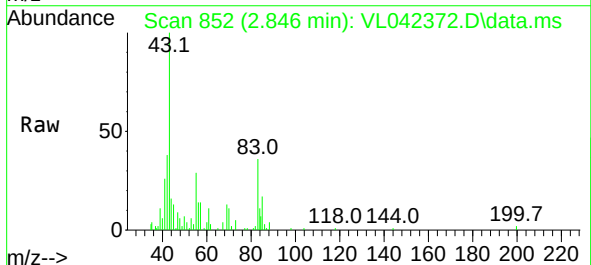
Manual Integrations
APPROVED

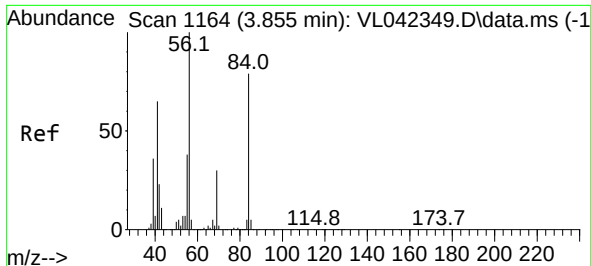
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#29
Chloroform
Concen: 0.109 ppbv m
RT: 2.846 min Scan# 852
Delta R.T. -0.003 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

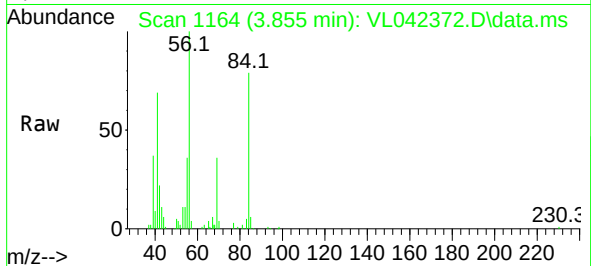
Tgt Ion: 83 Resp: 2771
Ion Ratio Lower Upper
83 100
85 48.2 50.0 75.0#





#30
Cyclohexane
Concen: 1.300 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. 0.000 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

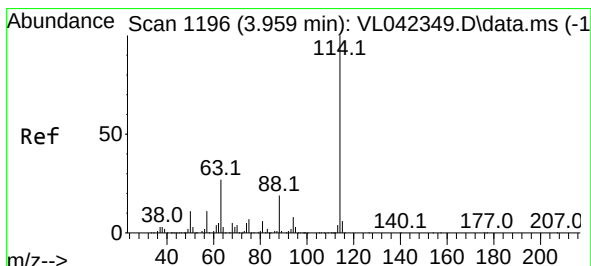
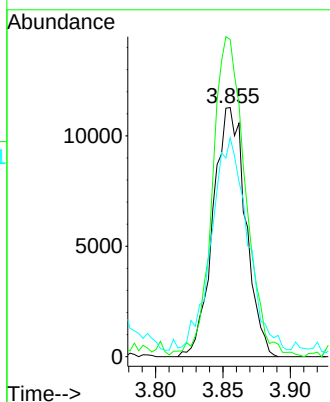
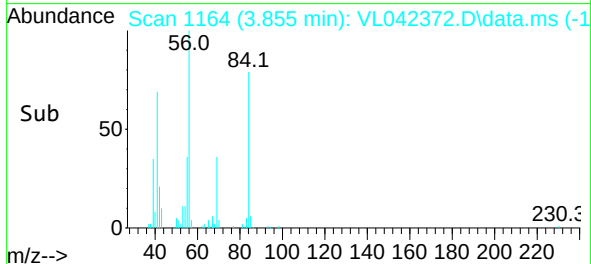
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025



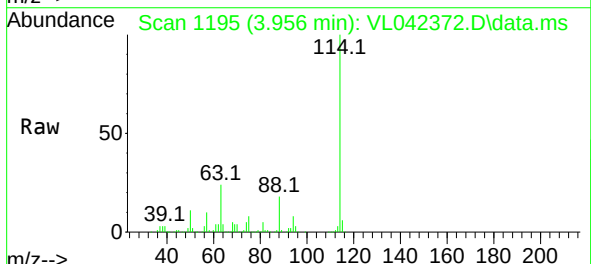
Tgt Ion: 84 Resp: 1896
Ion Ratio Lower Upper
84 100
56 131.9 101.0 151.4
41 93.9 67.4 101.0

Manual Integrations
APPROVED

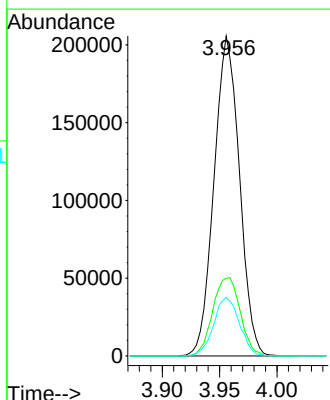
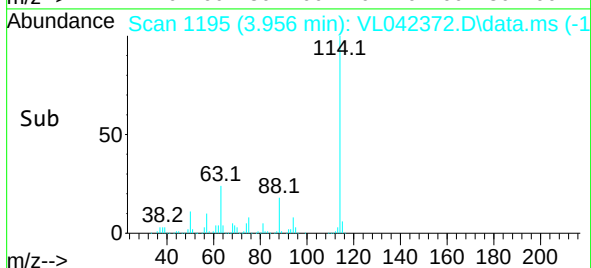
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

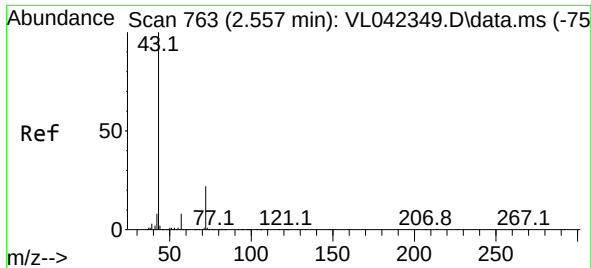


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.956 min Scan# 1195
Delta R.T. -0.003 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26



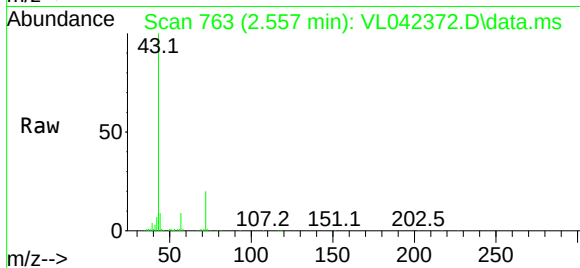
Tgt Ion:114 Resp: 317011
Ion Ratio Lower Upper
114 100
63 26.5 21.8 32.6
88 18.5 15.5 23.3





#34
2-Butanone
Concen: 1.190 ppbv
RT: 2.557 min Scan# 70
Delta R.T. 0.000 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

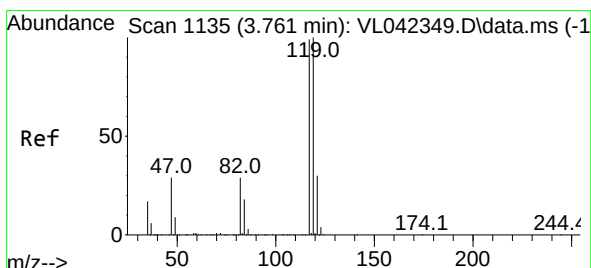
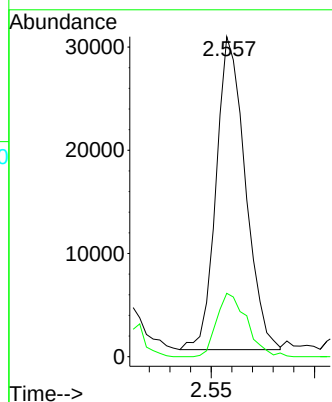
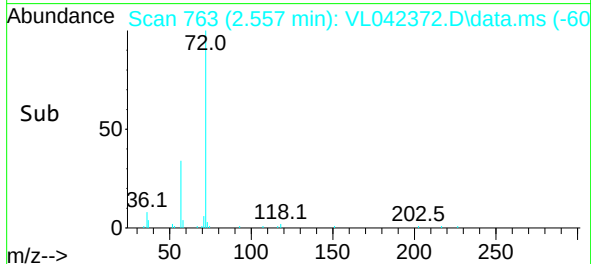
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025



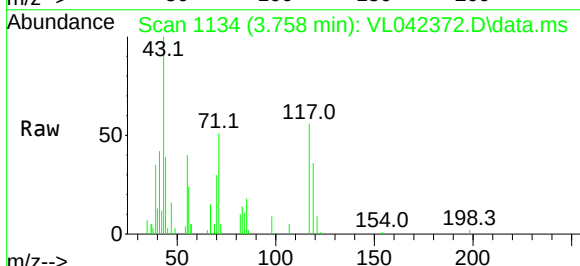
Tgt Ion: 43 Resp: 2984
Ion Ratio Lower Upper
43 100
72 20.9 18.2 27.2

Manual Integrations
APPROVED

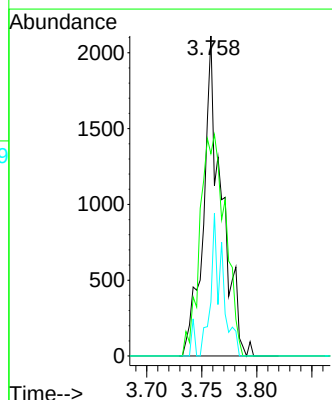
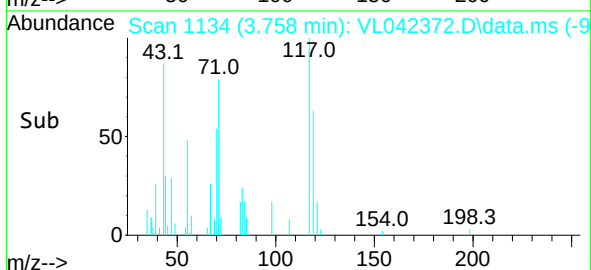
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

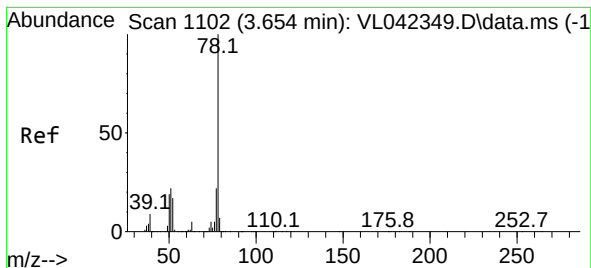


#35
Carbon Tetrachloride
Concen: 0.085 ppbv m
RT: 3.758 min Scan# 1134
Delta R.T. -0.003 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26



Tgt Ion:117 Resp: 2428
Ion Ratio Lower Upper
117 100
119 63.2 80.5 120.7#
121 16.9 24.2 36.2#





#36

Benzene

Concen: 1.128 ppbv

RT: 3.651 min Scan# 1102

Delta R.T. -0.003 min

Lab File: VL042372.D

Acq: 17 Apr 2025 23:26

Instrument :

MSVOA_L

ClientSampleId :

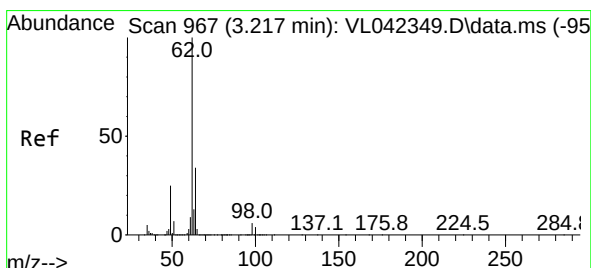
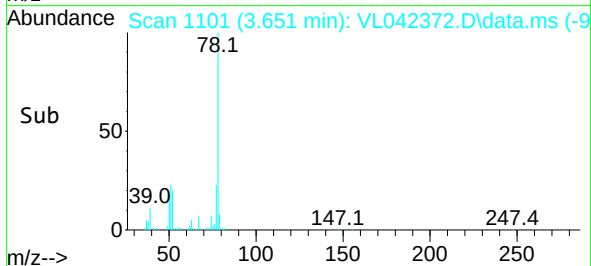
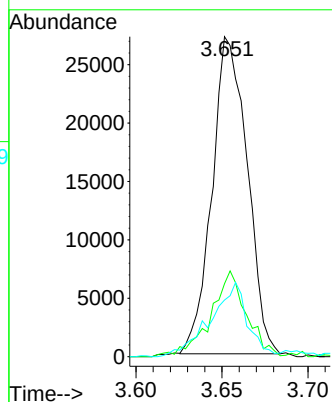
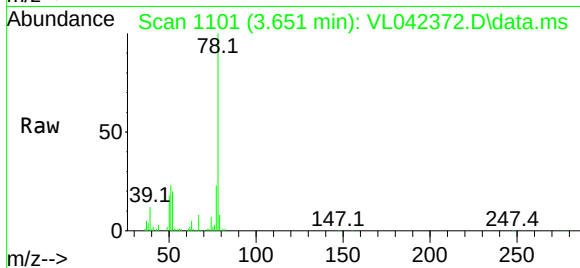
IA-B2-4-03312025

Tgt Ion: 78	Resp: 3857
Ion Ratio	Lower Upper
78 100	
77 22.7	17.4 26.0
50 15.8	15.5 23.3

Manual Integrations

APPROVED

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



#37

1,2-Dichloroethane

Concen: 0.212 ppbv

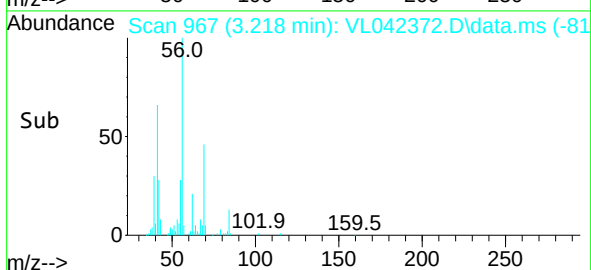
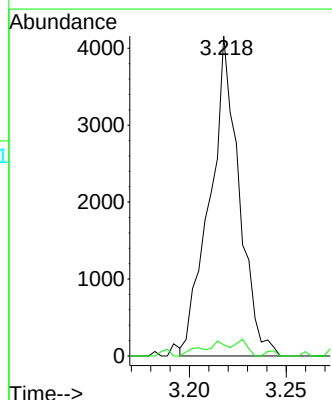
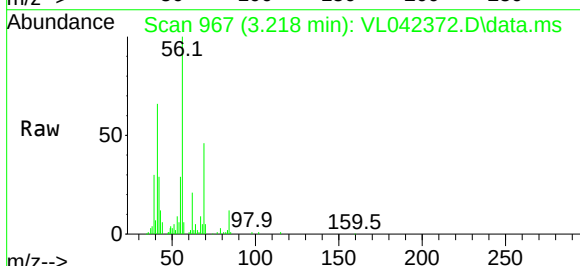
RT: 3.218 min Scan# 967

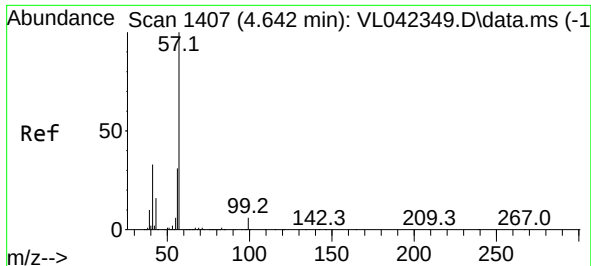
Delta R.T. 0.000 min

Lab File: VL042372.D

Acq: 17 Apr 2025 23:26

Tgt Ion: 62	Resp: 4357
Ion Ratio	Lower Upper
62 100	
98 8.8	5.1 7.7#





#44

2,2,4-Trimethylpentane

Concen: 10.563 ppbv

RT: 4.639 min Scan# 1406

Delta R.T. -0.003 min

Lab File: VL042372.D

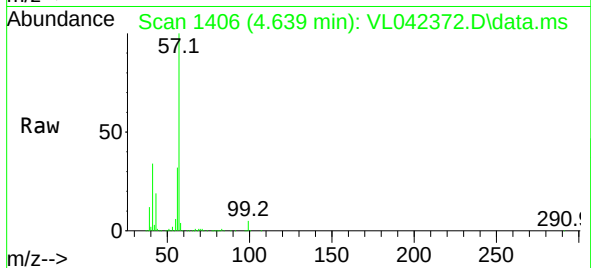
Acq: 17 Apr 2025 23:26

Instrument :

MSVOA_L

ClientSampleId :

IA-B2-4-03312025



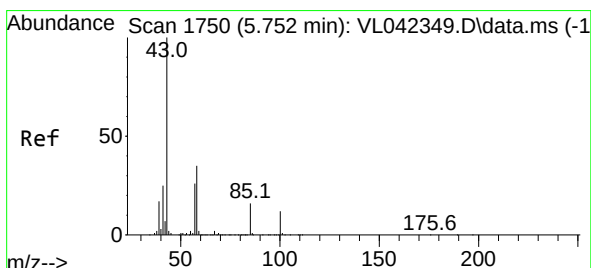
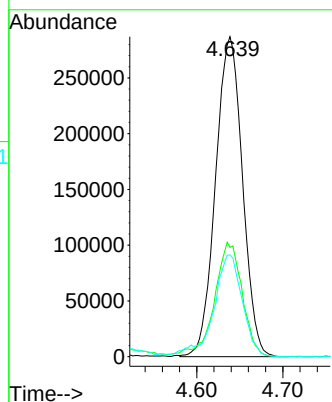
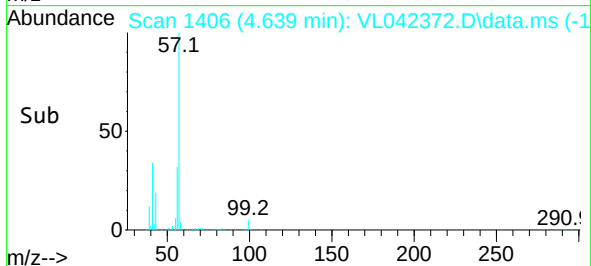
Tgt Ion: 57 Resp: 623779

Ion	Ratio	Lower	Upper
57	100		
41	37.2	27.2	40.8
56	34.0	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: 0.416 ppbv m

RT: 5.762 min Scan# 1753

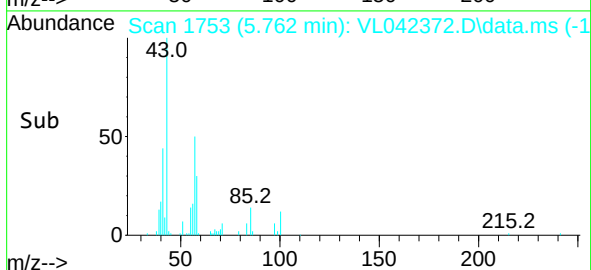
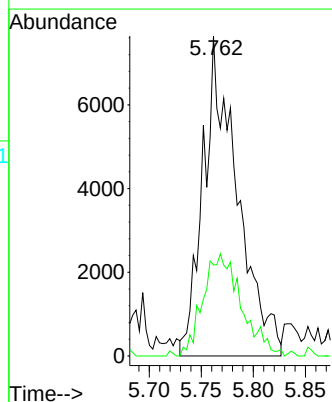
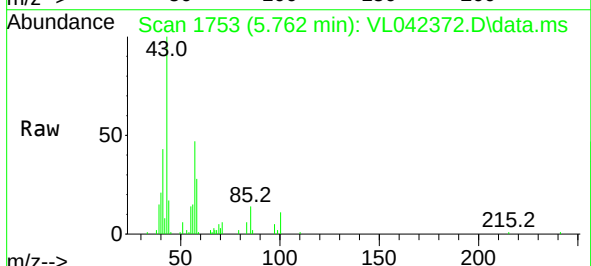
Delta R.T. 0.010 min

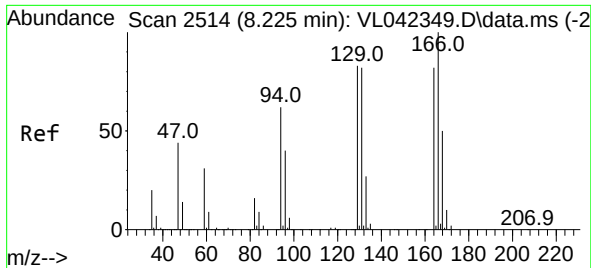
Lab File: VL042372.D

Acq: 17 Apr 2025 23:26

Tgt Ion: 43 Resp: 17333

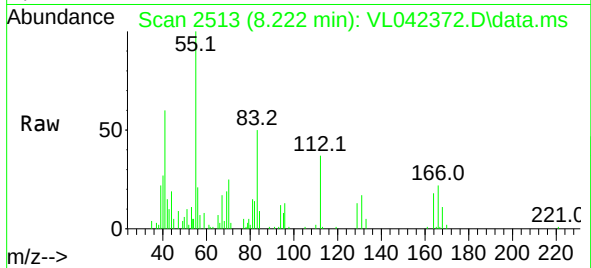
Ion	Ratio	Lower	Upper
43	100		
58	0.0	28.6	43.0#





#52
Tetrachloroethene
Concen: 0.129 ppbv m
RT: 8.222 min Scan# 2115
Delta R.T. -0.003 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

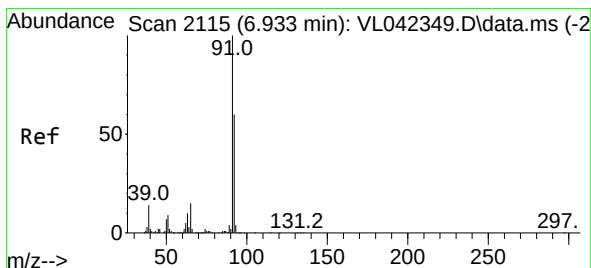
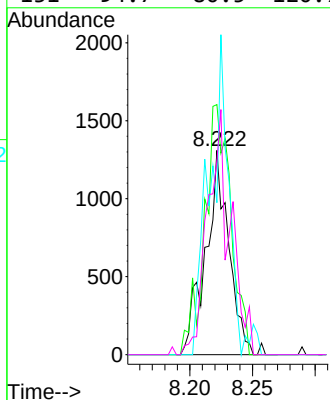
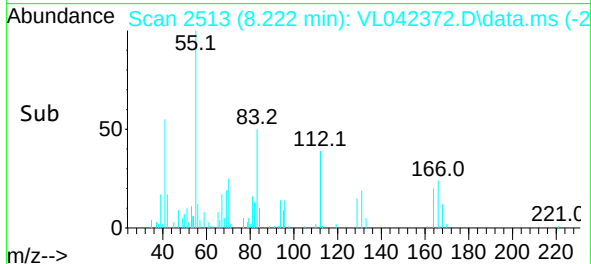
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025



Tgt Ion:164 Resp: 1704
Ion Ratio Lower Upper
164 100
166 122.4 98.2 147.2
129 74.4 81.8 122.8
131 94.7 80.5 120.7

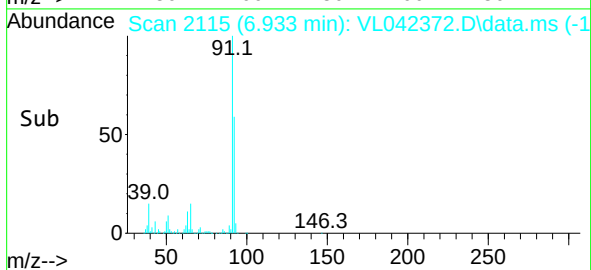
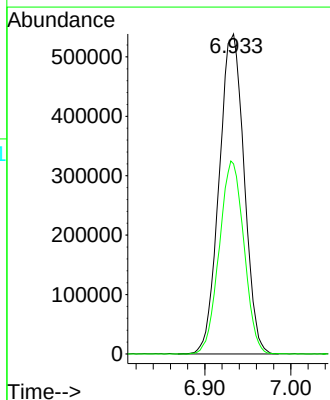
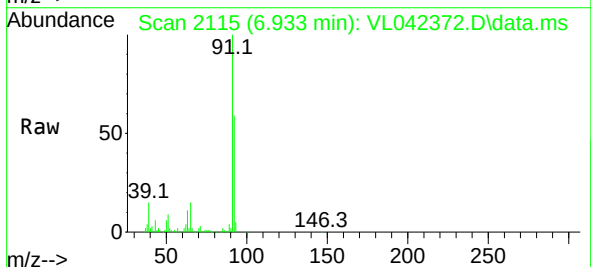
Manual Integrations
APPROVED

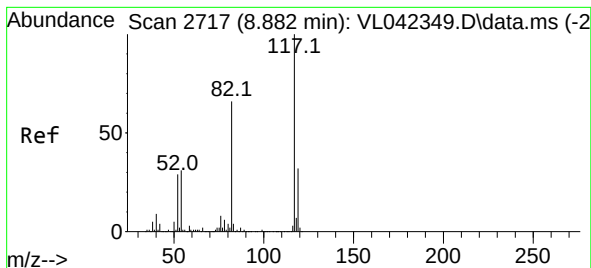
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#53
Toluene
Concen: 26.450 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. 0.000 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion: 91 Resp: 1085281
Ion Ratio Lower Upper
91 100
92 59.7 48.2 72.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.879 min Scan# 21

Delta R.T. -0.003 min

Lab File: VL042372.D

Acq: 17 Apr 2025 23:26

Instrument :

MSVOA_L

ClientSampleId :

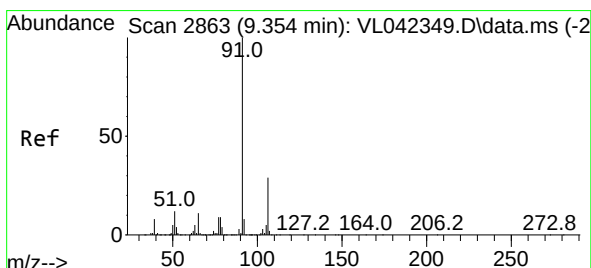
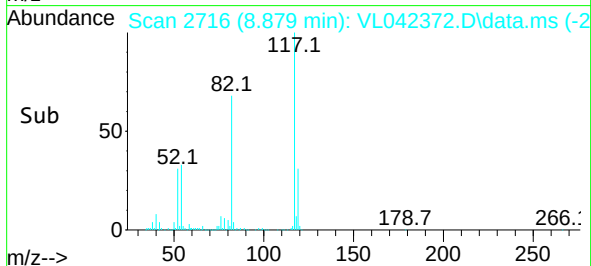
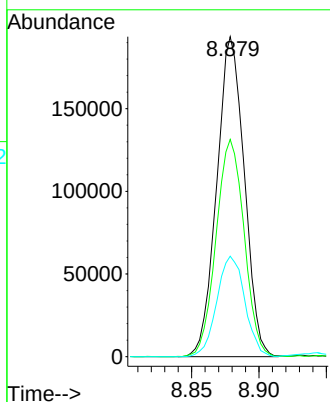
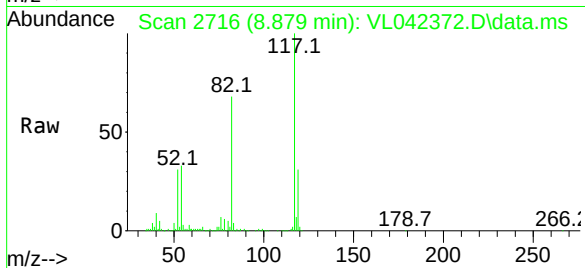
IA-B2-4-03312025

Tgt Ion:117	Resp: 27519
Ion Ratio	Lower Upper
117 100	
82 69.1	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: 5.088 ppbv

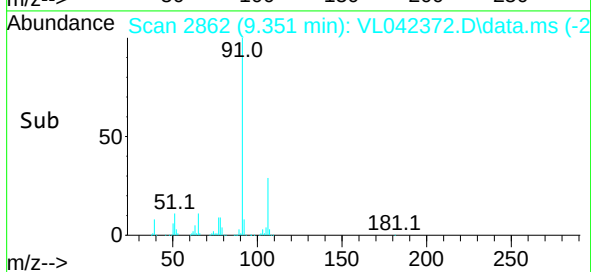
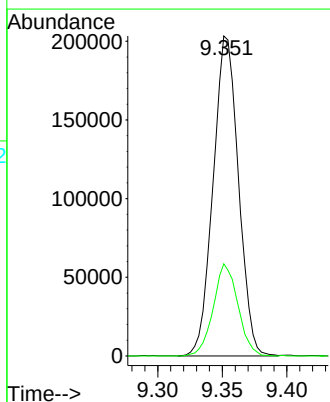
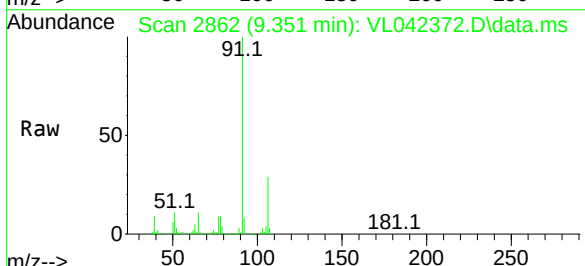
RT: 9.351 min Scan# 2862

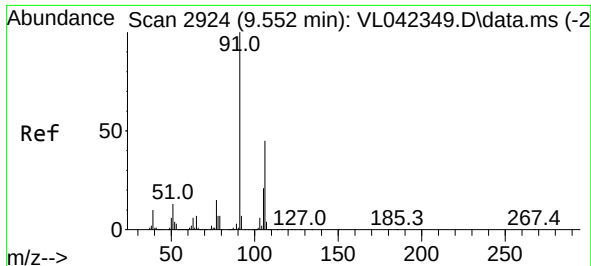
Delta R.T. -0.003 min

Lab File: VL042372.D

Acq: 17 Apr 2025 23:26

Tgt Ion: 91	Resp: 277437
Ion Ratio	Lower Upper
91 100	
106 28.8	23.0 34.4





#59

m/p-Xylene

Concen: 17.539 ppbv

RT: 9.529 min Scan# 2917

Delta R.T. -0.022 min

Lab File: VL042372.D

Acq: 17 Apr 2025 23:26

Instrument :

MSVOA_L

ClientSampleId :

IA-B2-4-03312025

Tgt Ion: 91 Resp: 77040

Ion Ratio Lower Upper

91 100

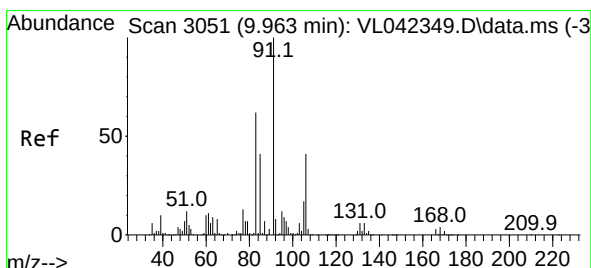
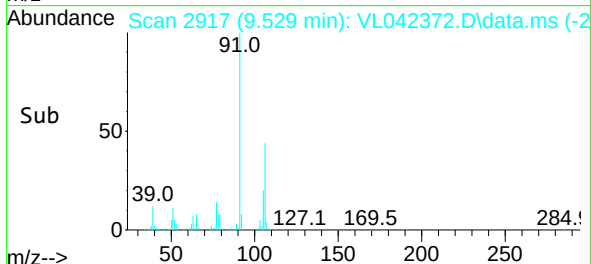
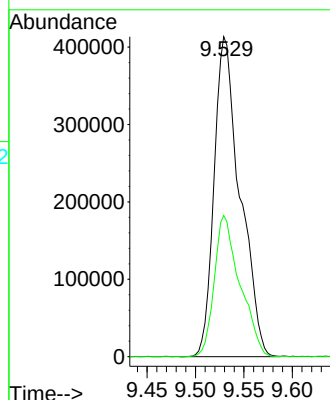
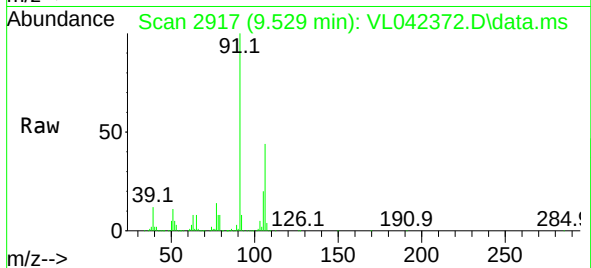
106 43.7 35.4 53.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#60

o-Xylene

Concen: 6.906 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. 0.000 min

Lab File: VL042372.D

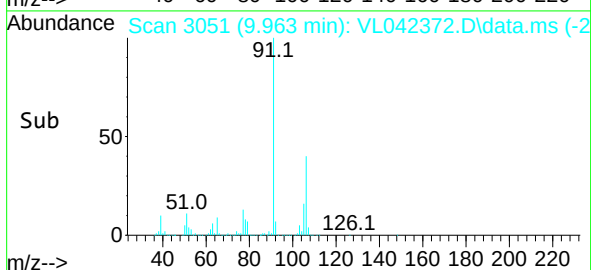
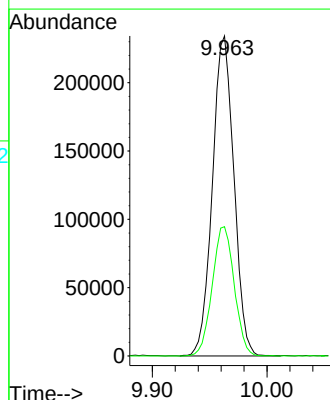
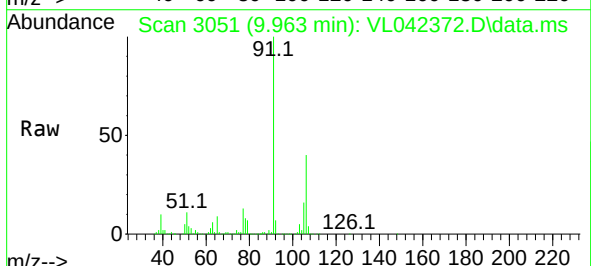
Acq: 17 Apr 2025 23:26

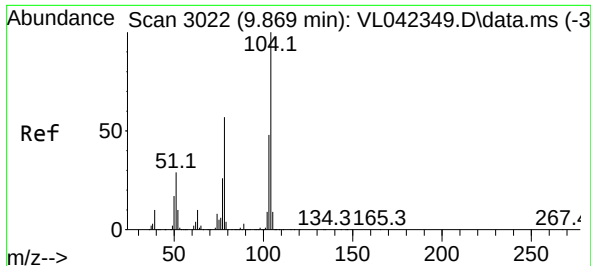
Tgt Ion: 91 Resp: 305451

Ion Ratio Lower Upper

91 100

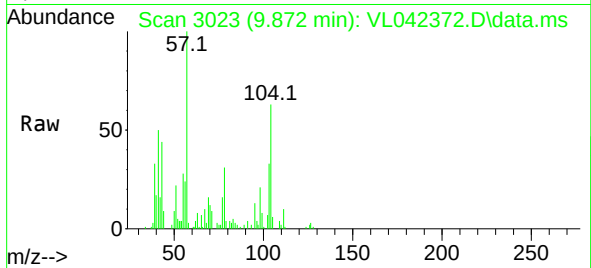
106 41.3 21.1 63.4





#61
Styrene
Concen: 0.366 ppbv
RT: 9.872 min Scan# 3022
Delta R.T. 0.004 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

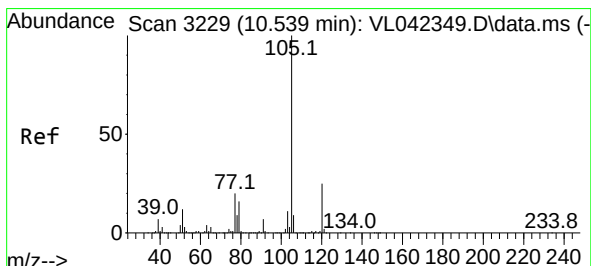
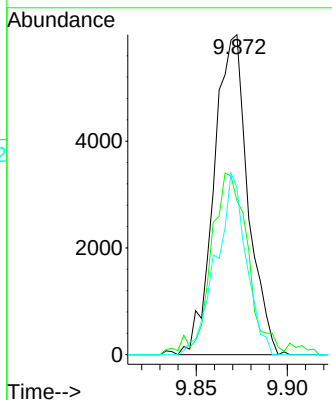
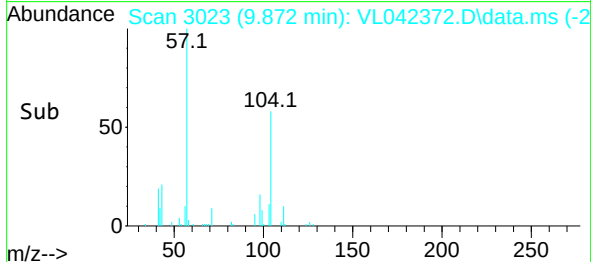
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025



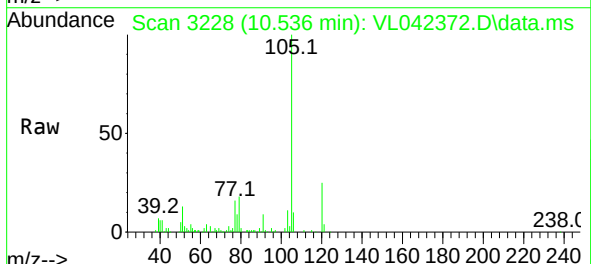
Tgt Ion:104 Resp: 773
Ion Ratio Lower Upper
104 100
78 63.5 44.6 66.8
103 50.7 37.4 56.0

Manual Integrations
APPROVED

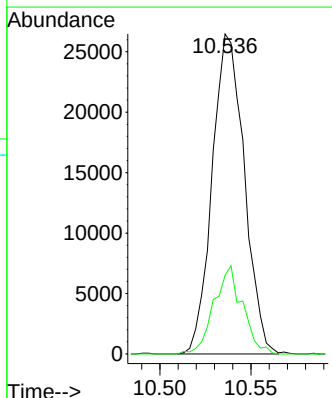
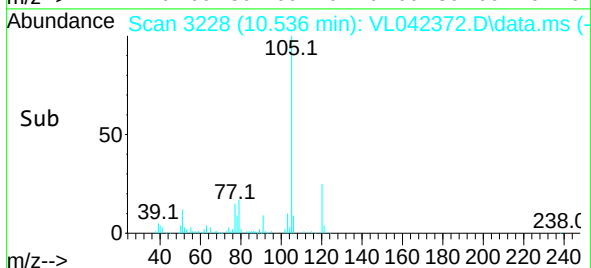
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

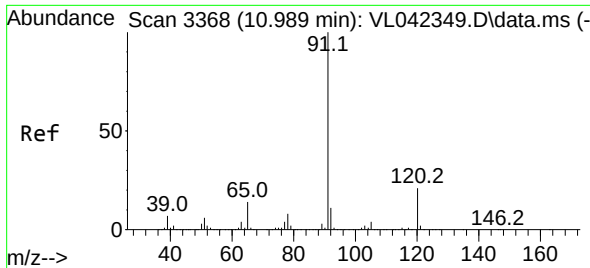


#62
Isopropylbenzene
Concen: 0.499 ppbv
RT: 10.536 min Scan# 3228
Delta R.T. -0.003 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26



Tgt Ion:105 Resp: 32373
Ion Ratio Lower Upper
105 100
120 24.4 19.8 29.8





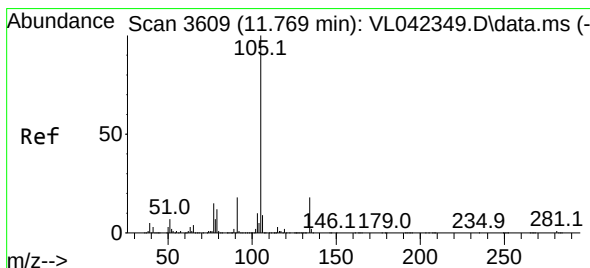
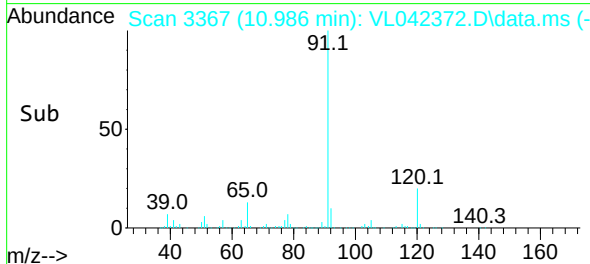
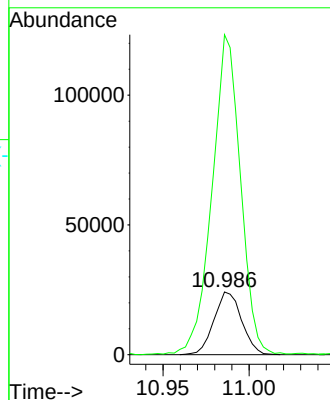
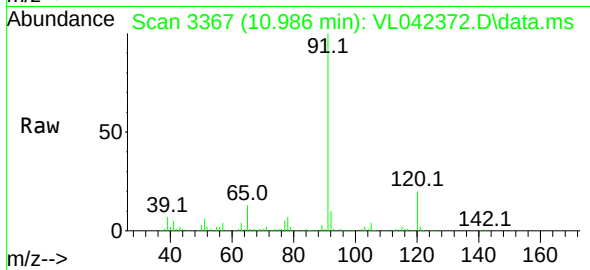
#64
n-propylbenzene
Concen: 1.657 ppbv
RT: 10.986 min Scan# 31
Delta R.T. -0.003 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

Tgt Ion:120 Resp: 27039
Ion Ratio Lower Upper
120 100
91 526.4 392.4 588.6

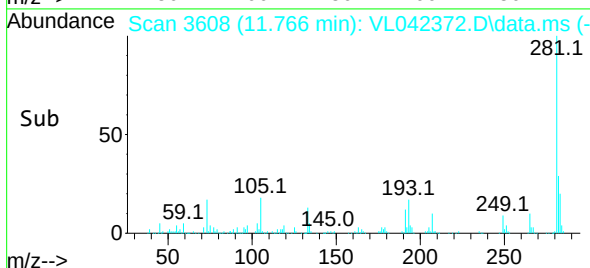
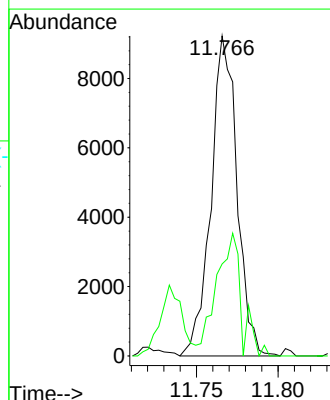
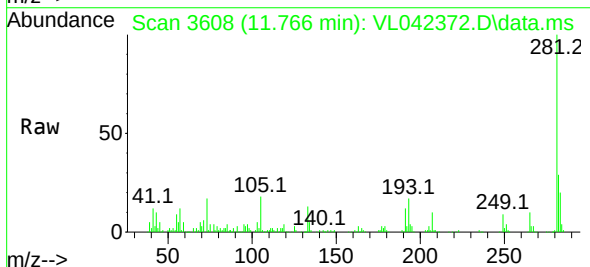
Manual Integrations
APPROVED

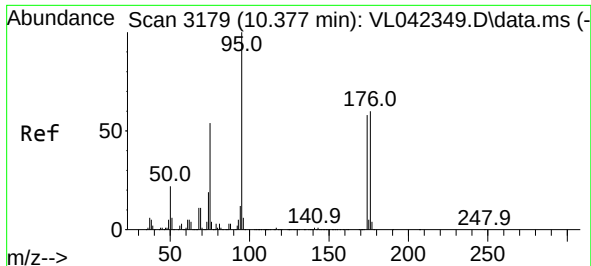
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#67
sec-Butylbenzene
Concen: 0.123 ppbv
RT: 11.766 min Scan# 3608
Delta R.T. -0.003 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

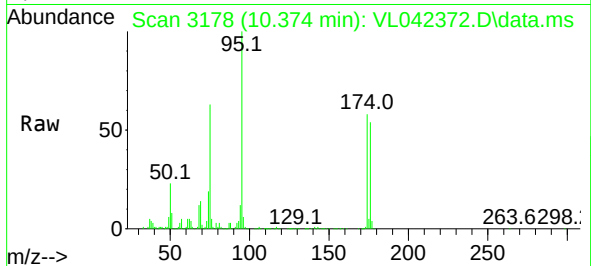
Tgt Ion:105 Resp: 10233
Ion Ratio Lower Upper
105 100
134 36.2 14.6 21.8#





#68
1-Bromo-4-Fluorobenzene
Concen: 10.137 ppbv
RT: 10.374 min Scan# 3179
Delta R.T. -0.003 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

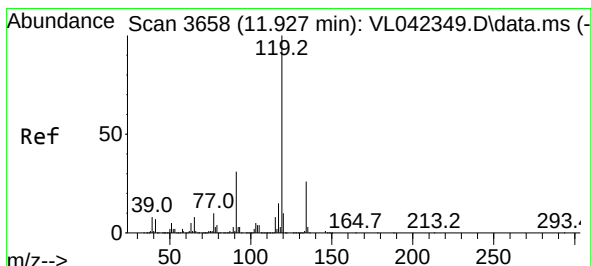
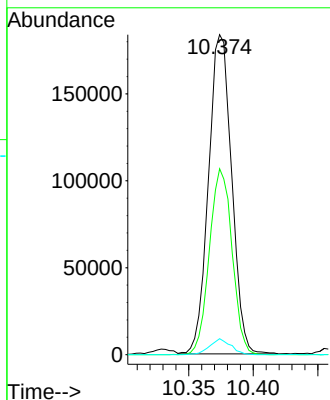
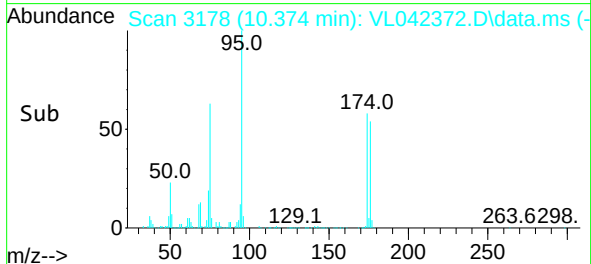
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025



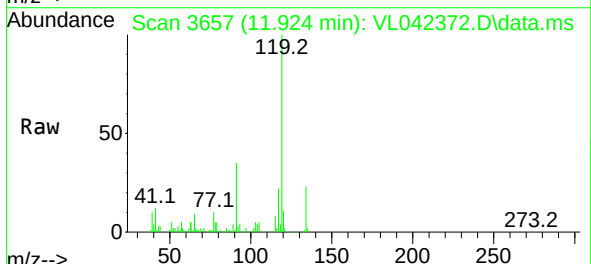
Tgt Ion: 95 Resp: 229240
Ion Ratio Lower Upper
95 100
174 57.0 48.5 72.7
175 4.6 3.7 5.5

Manual Integrations
APPROVED

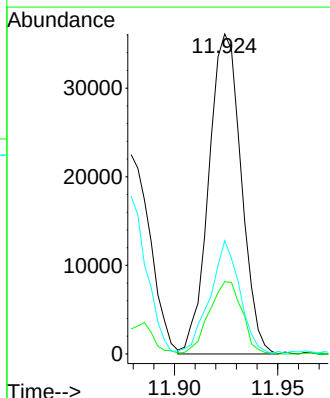
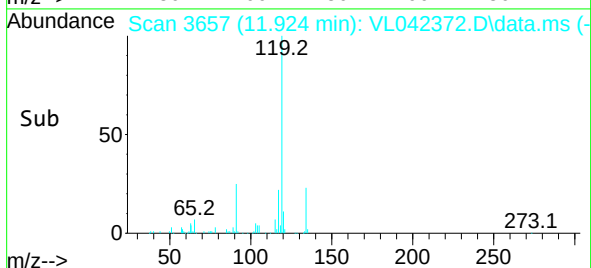
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

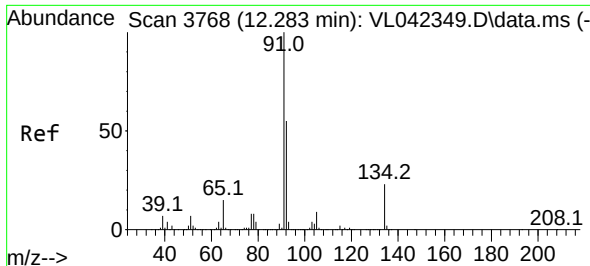


#69
p-Isopropyltoluene
Concen: 0.547 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. -0.003 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26



Tgt Ion:119 Resp: 39473
Ion Ratio Lower Upper
119 100
134 23.0 20.0 30.0
91 33.9 24.4 36.6





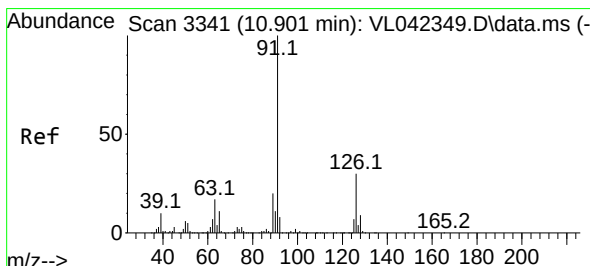
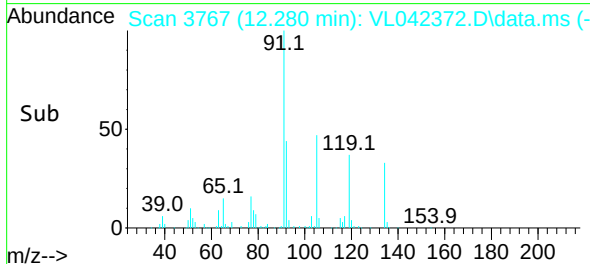
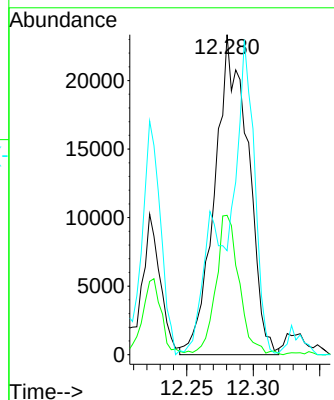
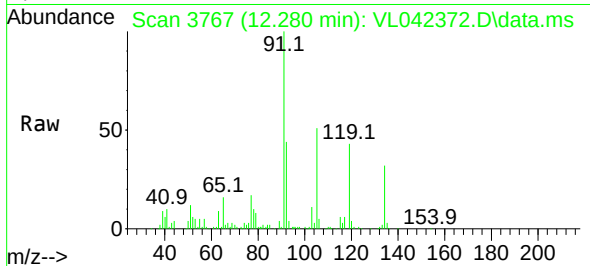
#70
n-Butylbenzene
Concen: 0.540 ppbv m
RT: 12.280 min Scan# 3768
Delta R.T. -0.003 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

Tgt Ion: 91 Resp: 40590
Ion Ratio Lower Upper
91 100
92 30.5 44.2 66.4
134 0.0 18.2 27.4

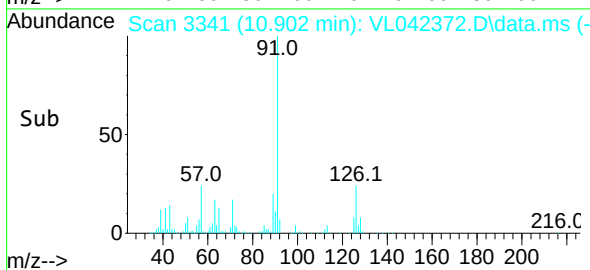
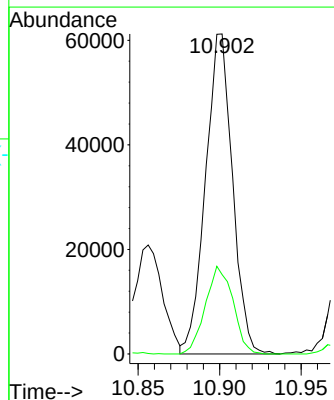
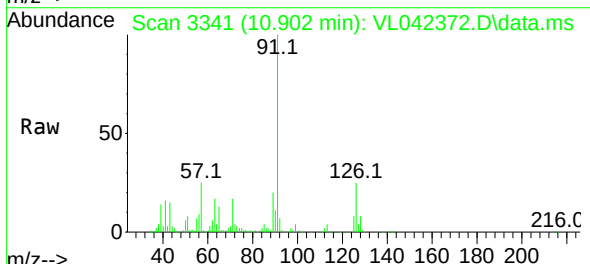
Manual Integrations
APPROVED

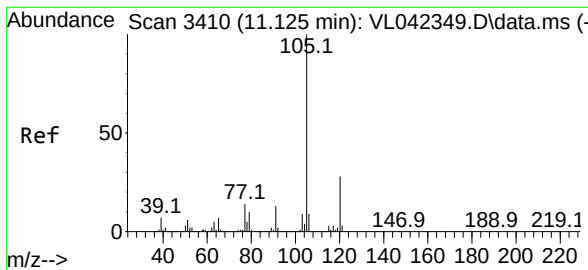
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#71
2-Chlorotoluene
Concen: 1.381 ppbv
RT: 10.902 min Scan# 3341
Delta R.T. 0.000 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

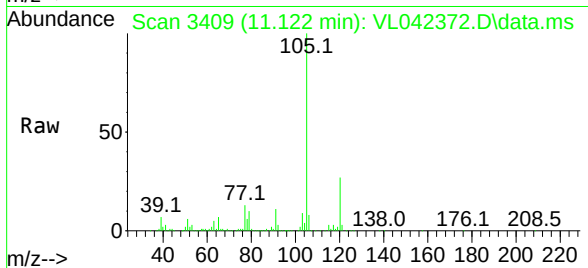
Tgt Ion: 91 Resp: 70326
Ion Ratio Lower Upper
91 100
126 28.3 11.4 45.4





#72
4-Ethyltoluene
Concen: 2.714 ppbv
RT: 11.122 min Scan# 3410
Delta R.T. -0.003 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

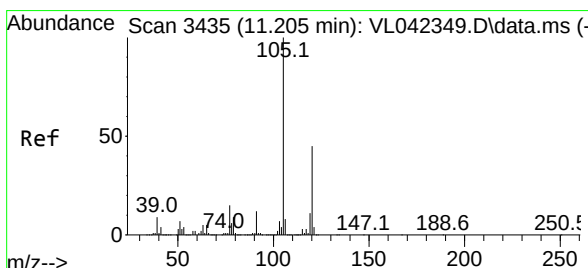
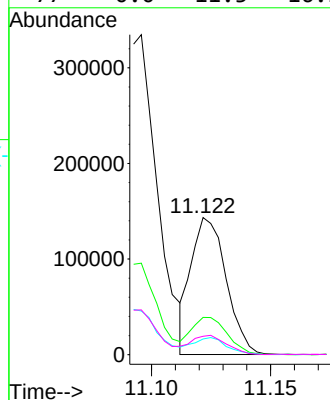
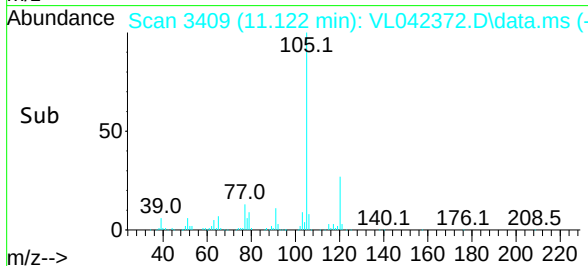
Instrument : MSVOA_L
ClientSampleId : IA-B2-4-03312025



Tgt Ion:105 Resp: 146731
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

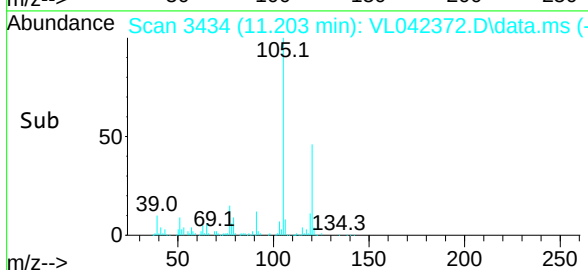
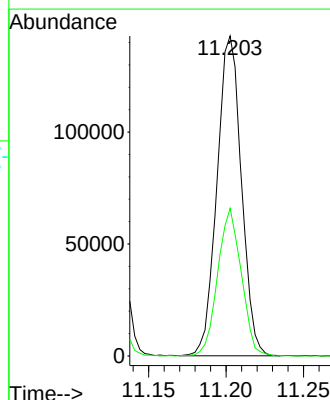
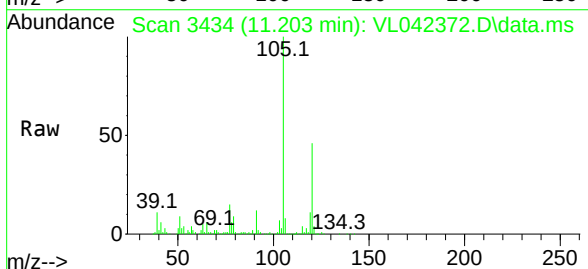
Manual Integrations
APPROVED

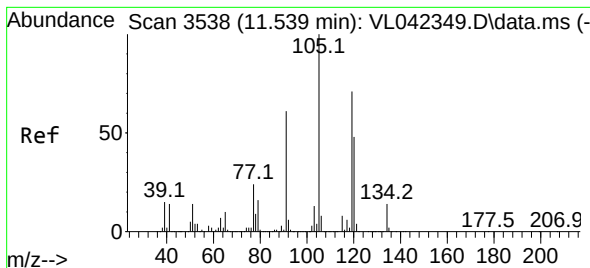
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#73
1,3,5-Trimethylbenzene
Concen: 3.271 ppbv
RT: 11.203 min Scan# 3434
Delta R.T. -0.003 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion:105 Resp: 156177
Ion Ratio Lower Upper
105 100
120 46.1 35.6 53.4





#74

1,2,4-Trimethylbenzene

Concen: 9.018 ppbv

RT: 11.536 min Scan# 3538

Delta R.T. -0.003 min

Lab File: VL042372.D

Acq: 17 Apr 2025 23:26

Instrument :

MSVOA_L

ClientSampleId :

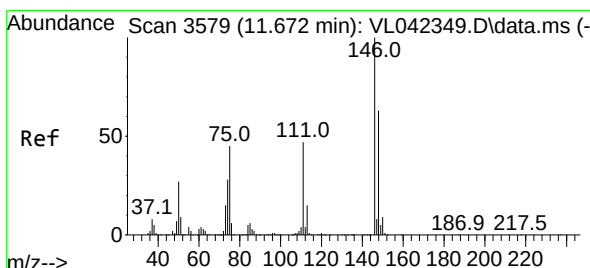
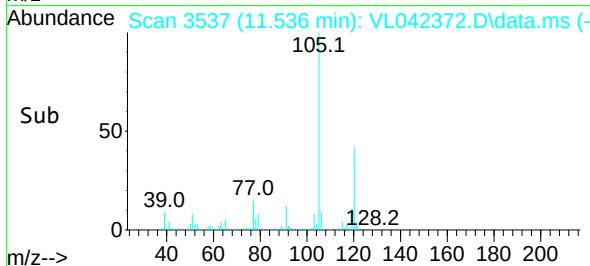
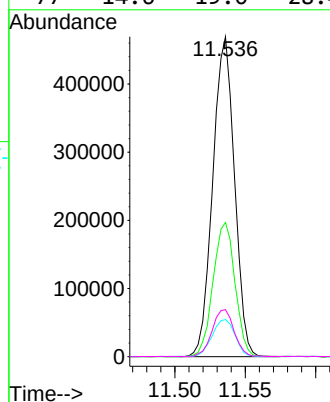
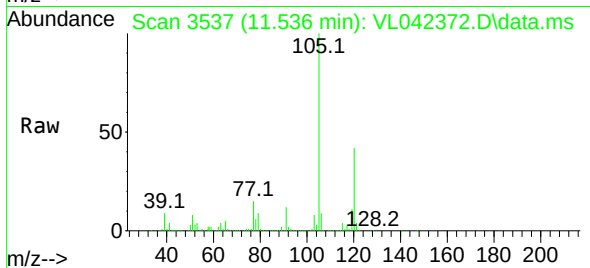
IA-B2-4-03312025

Tgt Ion:	105	Resp:	502862
Ion Ratio	Lower	Upper	
105	100		
120	42.0	38.1	57.1
91	11.6	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



#76

1,4-Dichlorobenzene

Concen: 0.362 ppbv

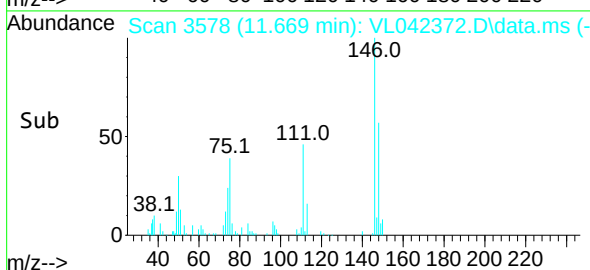
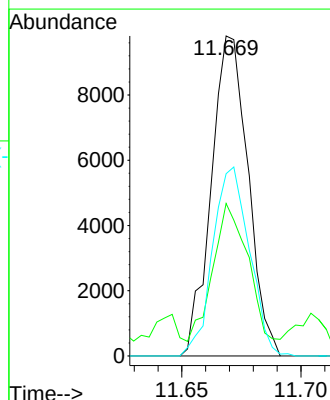
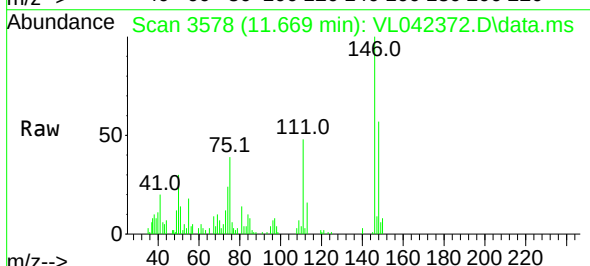
RT: 11.669 min Scan# 3578

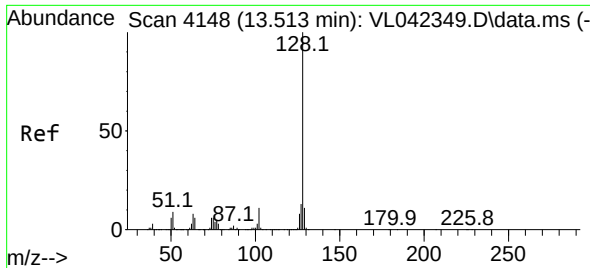
Delta R.T. -0.003 min

Lab File: VL042372.D

Acq: 17 Apr 2025 23:26

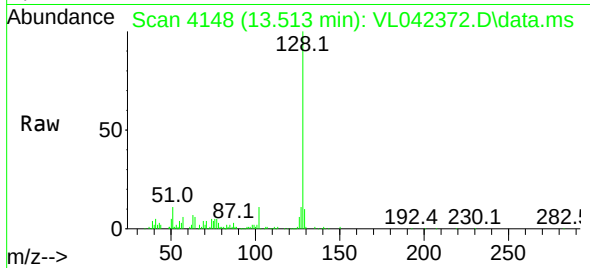
Tgt Ion:	146	Resp:	10548
Ion Ratio	Lower	Upper	
146	100		
111	73.6	24.2	72.6
148	58.9	32.1	96.5





#79
Naphthalene
Concen: 0.576 ppbv
RT: 13.513 min Scan# 4148
Delta R.T. 0.000 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

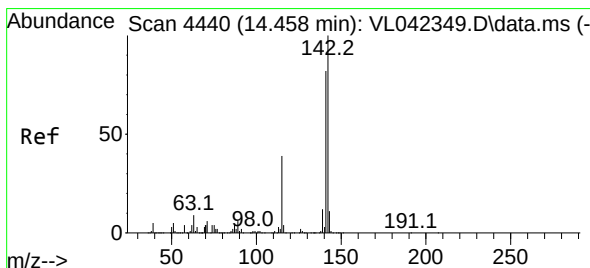
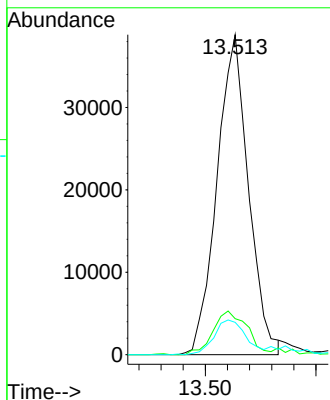
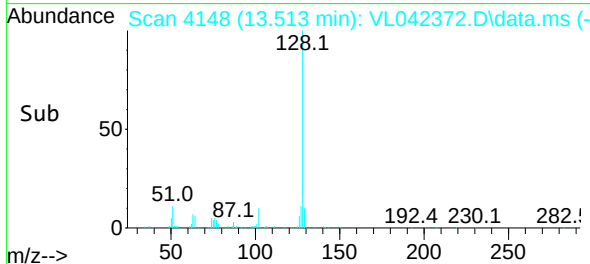
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025



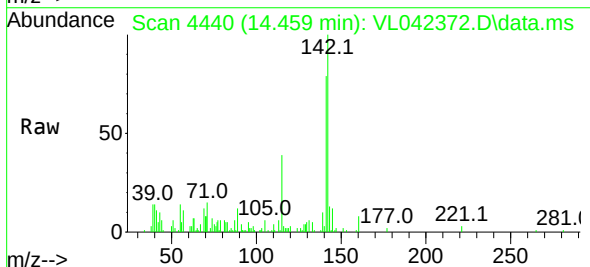
Tgt Ion:128 Resp: 3838
Ion Ratio Lower Upper
128 100
127 11.3 10.6 15.8
129 9.9 8.6 12.8

Manual Integrations
APPROVED

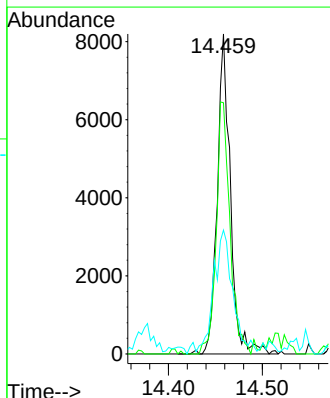
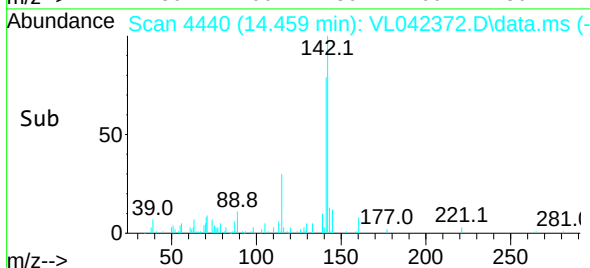
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#80
Naphthalene,2-methyl-
Concen: 0.209 ppbv
RT: 14.459 min Scan# 4440
Delta R.T. 0.000 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26



Tgt Ion:142 Resp: 7927
Ion Ratio Lower Upper
142 100
141 82.5 66.8 100.2
115 61.2 33.4 50.2#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042372.D
 Acq On : 17 Apr 2025 23:26
 Operator : SY/MD
 Sample : Q1726-07
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-4-03312025

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: VL042372.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.428	410	414	420	rBV	4149173	4703643	68.01%	10.408%
2	1.467	423	426	429	rBV	259836	133380	1.93%	0.295%
3	1.486	429	432	435	rBV	316661	142354	2.06%	0.315%
4	1.525	440	444	449	rBV	734418	363120	5.25%	0.804%
5	1.557	450	454	458	rVV	911598	461565	6.67%	1.021%
6	1.619	469	473	477	rVB	660892	370310	5.35%	0.819%
7	1.719	500	504	511	rBV	1208071	756328	10.94%	1.674%
8	1.832	534	539	549	rBV	7780993	6916070	100.00%	15.304%
9	1.884	549	555	561	rBV	809961	546342	7.90%	1.209%
10	2.059	600	609	619	rVB4	162694	176880	2.56%	0.391%
11	2.273	669	675	681	rBV	254929	208922	3.02%	0.462%
12	2.473	732	737	743	rVB	179645	172311	2.49%	0.381%
13	2.622	776	783	792	rVB2	123325	135181	1.95%	0.299%
14	2.787	826	834	840	rBV	401765	418293	6.05%	0.926%
15	2.823	840	845	857	rVB3	275398	340875	4.93%	0.754%
16	3.227	961	970	978	rVV	139403	181926	2.63%	0.403%
17	3.279	978	986	1003	rVB2	88499	134115	1.94%	0.297%
18	3.655	1086	1102	1107	rBV5	69014	148196	2.14%	0.328%
19	3.687	1107	1112	1125	rVB	99309	143646	2.08%	0.318%
20	3.852	1150	1163	1173	rBV4	66815	121378	1.76%	0.269%
21	3.956	1182	1195	1206	rBV	537662	850976	12.30%	1.883%
22	4.050	1206	1224	1232	rVV2	242427	456330	6.60%	1.010%
23	4.092	1232	1237	1249	rVB4	106689	183283	2.65%	0.406%
24	4.266	1276	1291	1303	rVB2	260029	495297	7.16%	1.096%
25	4.441	1328	1345	1356	rBV3	53043	110956	1.60%	0.246%
26	4.522	1356	1370	1383	rVV9	52987	160939	2.33%	0.356%
27	4.639	1385	1406	1425	rVB	660751	1548994	22.40%	3.428%
28	4.978	1498	1511	1523	rVB4	198877	401112	5.80%	0.888%
29	5.661	1700	1722	1741	rVB6	148541	424241	6.13%	0.939%
30	6.189	1874	1885	1886	rBV	78178	80112	1.16%	0.177%
31	6.267	1908	1909	1929	rVB3	102601	143145	2.07%	0.317%
32	6.823	2065	2081	2099	rBV5	307833	763726	11.04%	1.690%
33	6.933	2099	2115	2134	rVV2	1491384	3423662	49.50%	7.576%
34	7.183	2179	2192	2203	rBV4	110483	224943	3.25%	0.498%
35	7.377	2237	2252	2260	rBV2	161952	324167	4.69%	0.717%
36	7.422	2260	2266	2285	rVB6	60173	142619	2.06%	0.316%

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042372.D
 Acq On : 17 Apr 2025 23:26
 Operator : SY/MD
 Sample : Q1726-07
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-4-03312025

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	7.597	2308	2320	2338	rBV5	170190	501113	7.25%	1.109%
38	7.684	2338	2347	2359	rVB6	97166	184748	2.67%	0.409%
39	7.895	2397	2412	2430	rBV3	162489	375813	5.43%	0.832%
40	8.131	2475	2485	2503	rVB5	67741	142306	2.06%	0.315%

41	8.299	2522	2537	2555	rVB4	269872	548237	7.93%	1.213%
42	8.879	2701	2716	2726	rBV	697195	1073718	15.52%	2.376%
43	8.937	2726	2734	2741	rVV3	137167	230811	3.34%	0.511%
44	8.979	2741	2747	2763	rVB8	99404	221831	3.21%	0.491%
45	9.144	2790	2798	2812	rBV4	74802	126242	1.83%	0.279%

46	9.351	2853	2862	2877	rBV	486831	723039	10.45%	1.600%
47	9.529	2906	2917	2936	rVB	1197373	2268016	32.79%	5.019%
48	9.727	2965	2978	2991	rVB4	132097	288390	4.17%	0.638%
49	9.856	3004	3018	3033	rBV2	146337	248872	3.60%	0.551%
50	9.963	3036	3051	3061	rBV	655358	935170	13.52%	2.069%

51	10.351	3160	3171	3172	rBV3	234217	237469	3.43%	0.525%
52	10.374	3172	3178	3189	rVB	862092	1102000	15.93%	2.439%
53	10.539	3220	3229	3236	rBV2	75230	101100	1.46%	0.224%
54	10.856	3319	3327	3334	rVB	213940	260205	3.76%	0.576%
55	10.902	3334	3341	3352	rVB	239932	296569	4.29%	0.656%

56	10.986	3352	3367	3382	rVB	271421	384662	5.56%	0.851%
57	11.092	3391	3400	3406	rBV	880630	1027079	14.85%	2.273%
58	11.122	3406	3409	3418	rVB	372327	388889	5.62%	0.861%
59	11.203	3420	3434	3443	rVB	452411	533755	7.72%	1.181%
60	11.309	3462	3467	3471	rBV2	111751	126298	1.83%	0.279%

61	11.335	3471	3475	3489	rVB	327028	358641	5.19%	0.794%
62	11.400	3489	3495	3499	rBV3	76075	89012	1.29%	0.197%
63	11.536	3528	3537	3549	rBV	1362958	1506473	21.78%	3.334%
64	11.753	3598	3604	3606	rBV	185553	180252	2.61%	0.399%
65	11.772	3606	3610	3619	rVB2	377131	446560	6.46%	0.988%

66	11.879	3636	3643	3650	rVB2	343333	364664	5.27%	0.807%
67	11.924	3650	3657	3667	rBV	107973	129583	1.87%	0.287%
68	12.015	3675	3685	3689	rBV2	186582	215179	3.11%	0.476%
69	12.041	3689	3693	3700	rVV3	194183	209337	3.03%	0.463%
70	12.083	3700	3706	3716	rVB4	69788	100878	1.46%	0.223%

71	12.222	3744	3749	3756	rVB2	251209	264833	3.83%	0.586%
72	12.267	3756	3763	3766	rBV2	113453	118587	1.71%	0.262%
73	12.293	3766	3771	3777	rVB2	198681	211848	3.06%	0.469%
74	12.403	3798	3805	3810	rBV4	84810	92602	1.34%	0.205%
75	12.439	3810	3816	3821	rVV2	91923	87717	1.27%	0.194%

76	12.504	3831	3836	3840	rBV4	156170	185846	2.69%	0.411%
----	--------	------	------	------	------	--------	--------	-------	--------

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042372.D
Acq On : 17 Apr 2025 23:26
Operator : SY/MD
Sample : Q1726-07
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

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	12.543	3846	3848	3854	rVB3	101954	83960	1.21%	0.186%
78	12.588	3854	3862	3871	rBV3	245858	328697	4.75%	0.727%
79	12.653	3876	3882	3893	rVV7	62180	112361	1.62%	0.249%
80	12.827	3931	3936	3942	rVB2	172187	166620	2.41%	0.369%
81	12.918	3956	3964	3969	rBV	121424	134011	1.94%	0.297%
82	12.950	3969	3974	3981	rVB	159739	158560	2.29%	0.351%
83	13.125	4024	4028	4036	rVB3	99913	106666	1.54%	0.236%
84	13.225	4053	4059	4064	rBV	124137	137419	1.99%	0.304%
85	13.329	4085	4091	4101	rBV8	60879	99528	1.44%	0.220%
86	13.384	4101	4108	4115	rVB	422006	463895	6.71%	1.027%
87	13.666	4188	4195	4204	rVB6	69971	108183	1.56%	0.239%
88	13.724	4207	4213	4219	rBV2	96133	93536	1.35%	0.207%

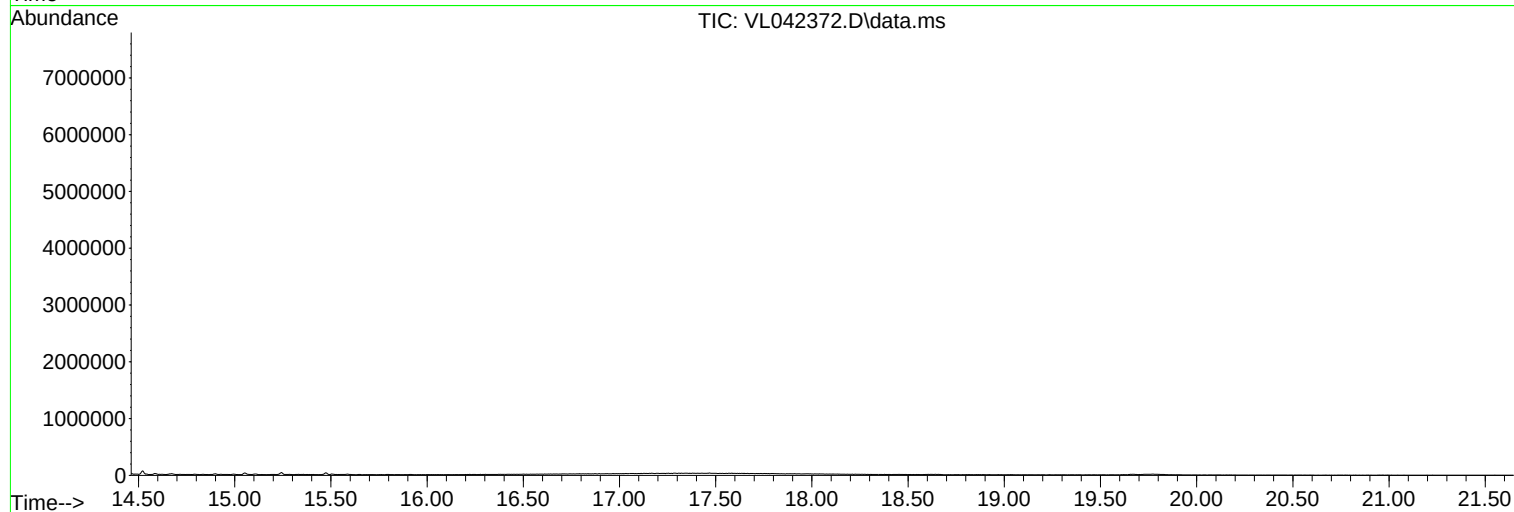
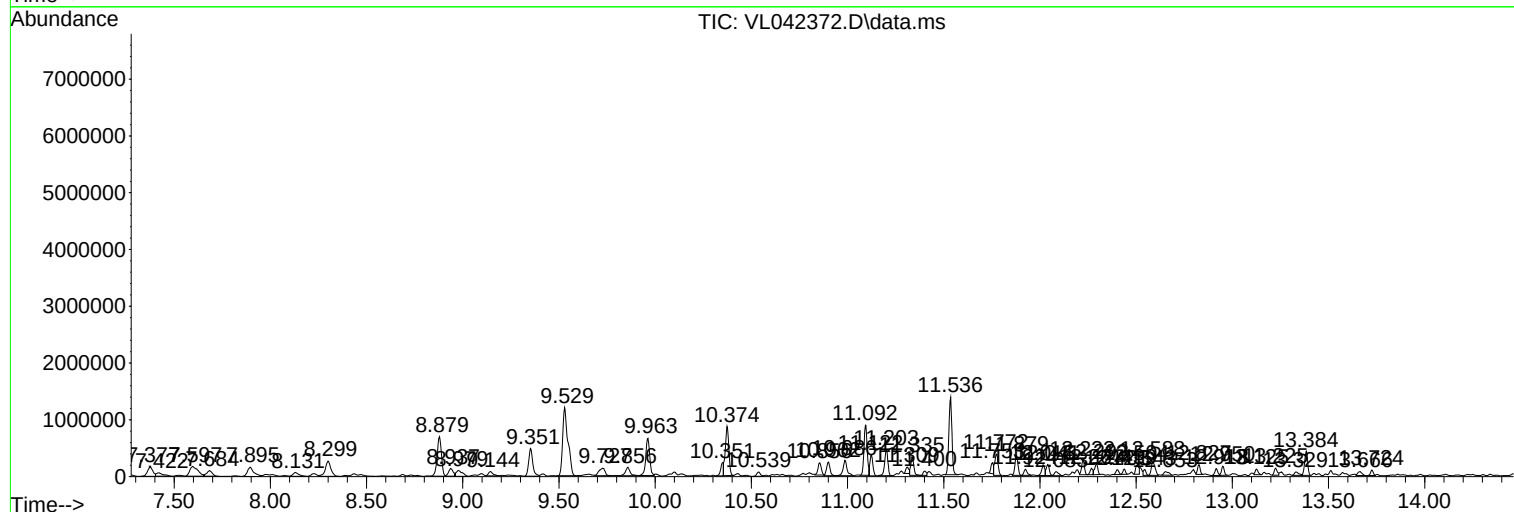
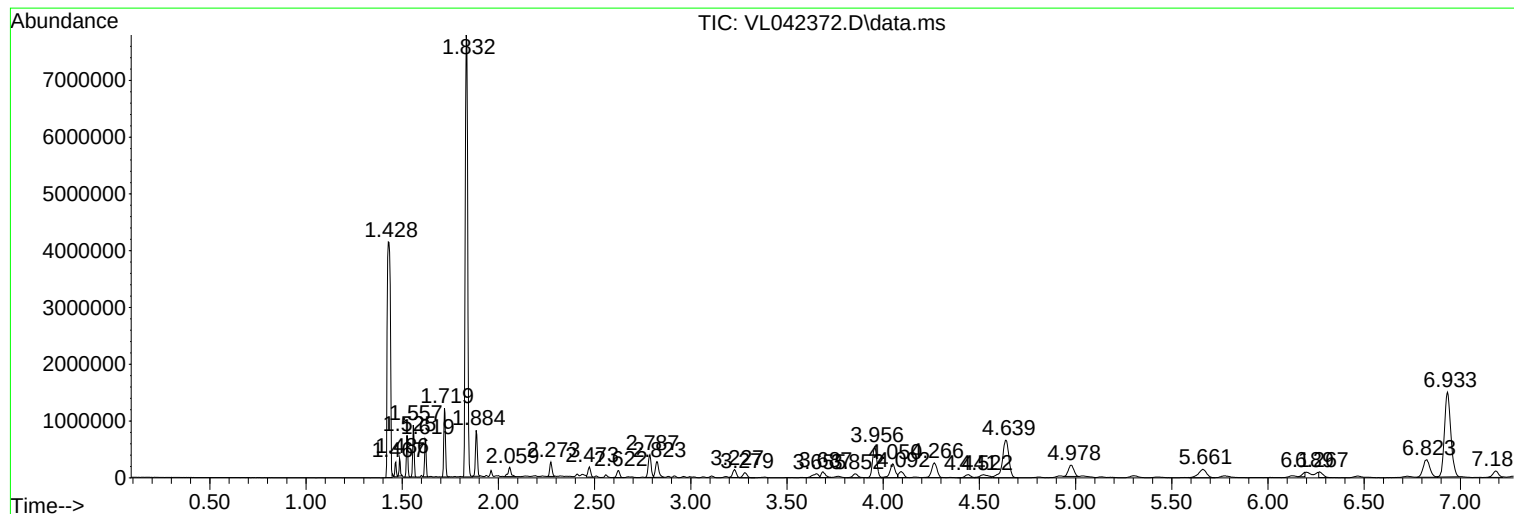
Sum of corrected areas: 45191117

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042372.D
Acq On : 17 Apr 2025 23:26
Operator : SY/MD
Sample : Q1726-07
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

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 : VL042372.D
Acq On : 17 Apr 2025 23:26
Operator : SY/MD
Sample : Q1726-07
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

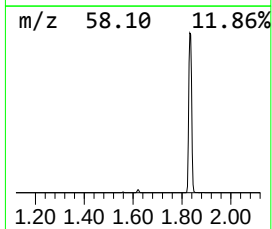
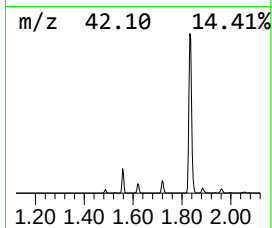
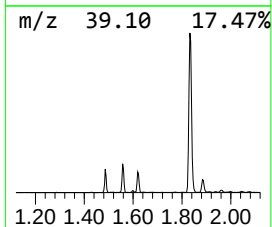
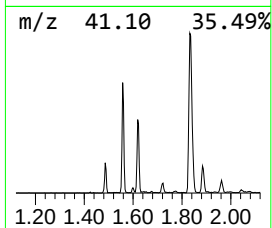
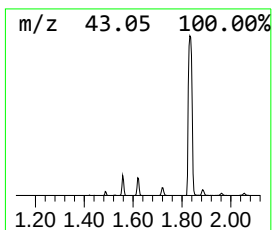
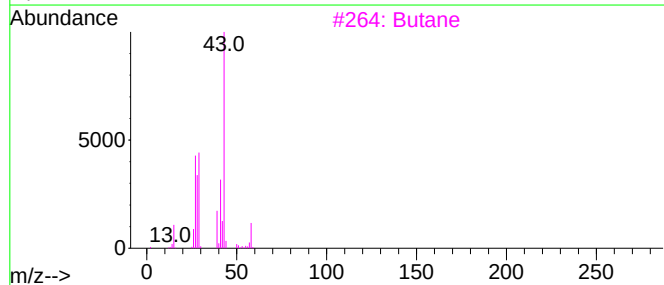
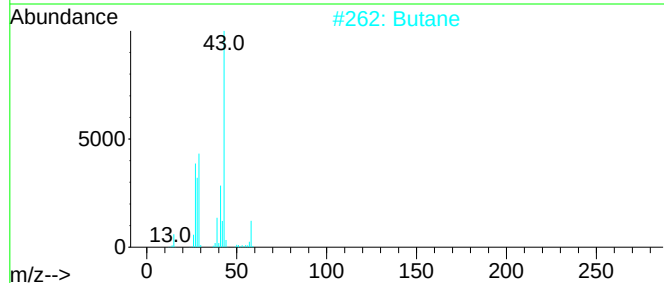
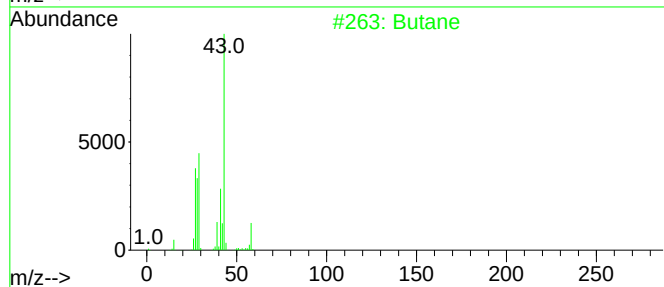
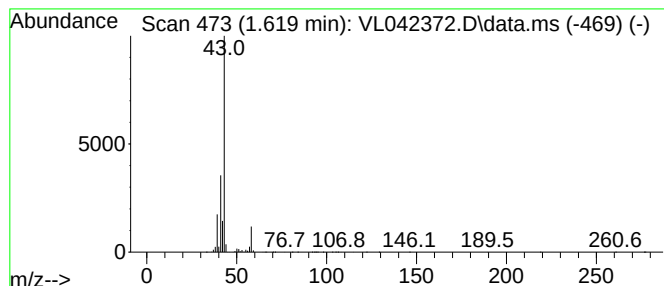
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 1 Butane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.619	8.85 ppbv	370310	Bromochloromethane	2.787

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane			58	C4H10	000106-97-8	80
2	Butane			58	C4H10	000106-97-8	80
3	Butane			58	C4H10	000106-97-8	72
4	Butane			58	C4H10	000106-97-8	72
5	Isobutane			58	C4H10	000075-28-5	9



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042372.D
Acq On : 17 Apr 2025 23:26
Operator : SY/MD
Sample : Q1726-07
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

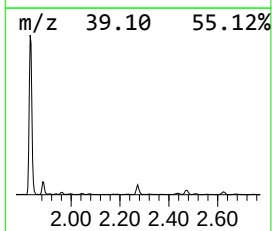
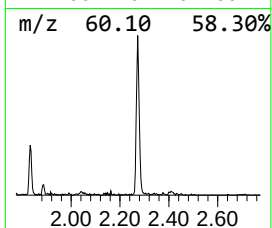
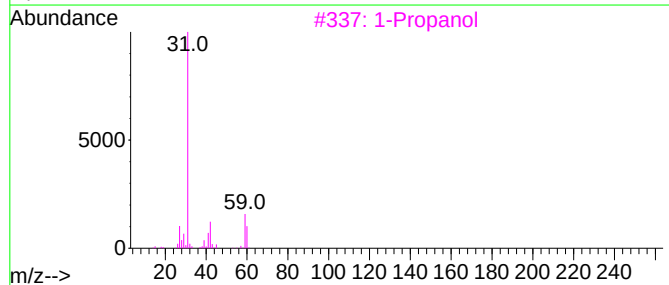
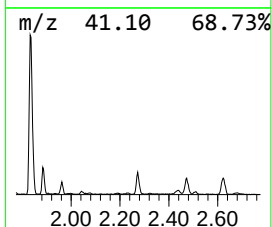
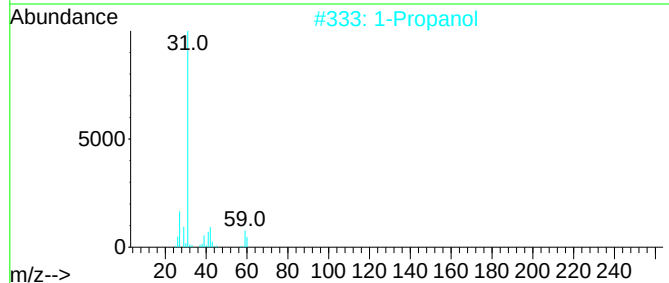
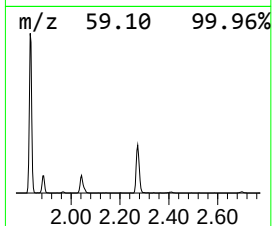
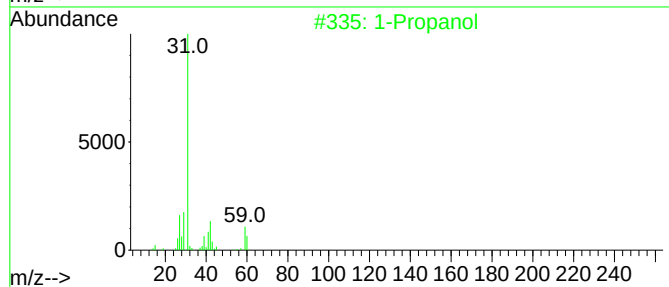
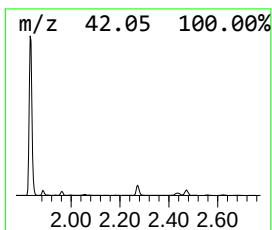
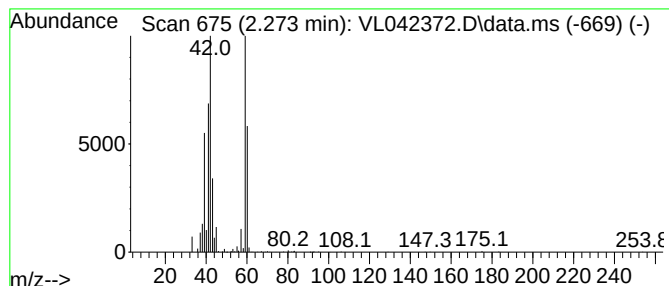
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 2 1-Propanol Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.273	4.99 ppbv	208922	Bromochloromethane	2.787

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Propanol			60	C3H8O	000071-23-8	58
2	1-Propanol			60	C3H8O	000071-23-8	53
3	1-Propanol			60	C3H8O	000071-23-8	53
4	1-Propanol			60	C3H8O	000071-23-8	53
5	1-Propanol			60	C3H8O	000071-23-8	33



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042372.D
Acq On : 17 Apr 2025 23:26
Operator : SY/MD
Sample : Q1726-07
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

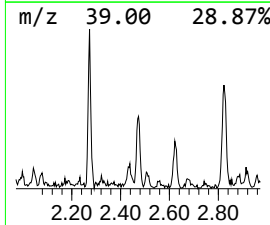
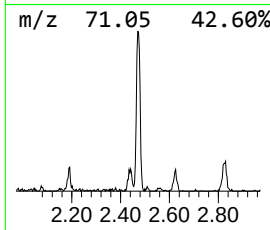
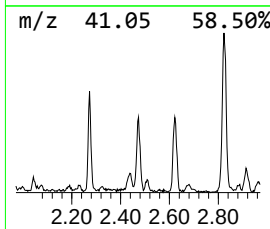
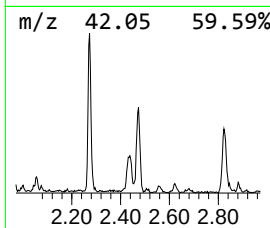
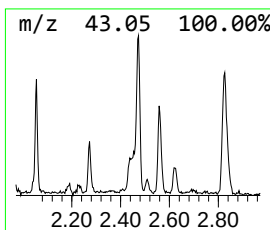
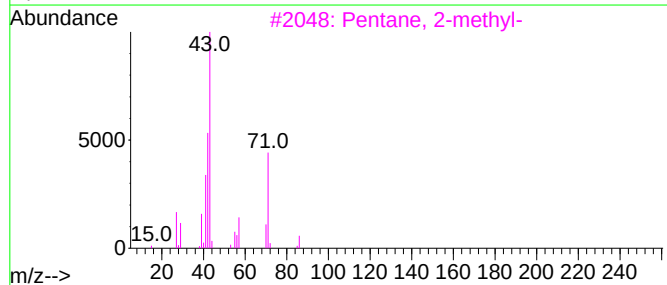
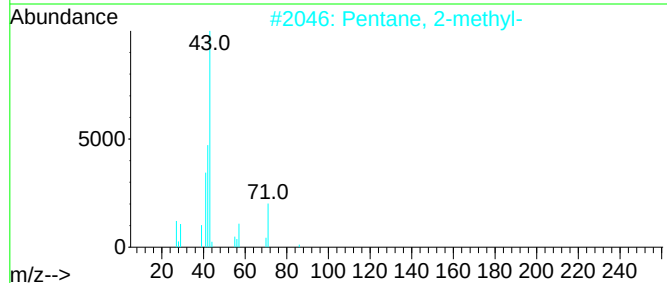
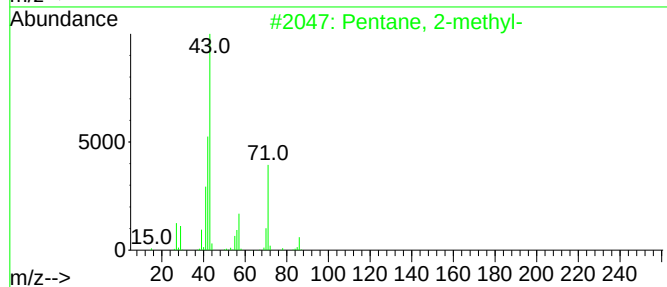
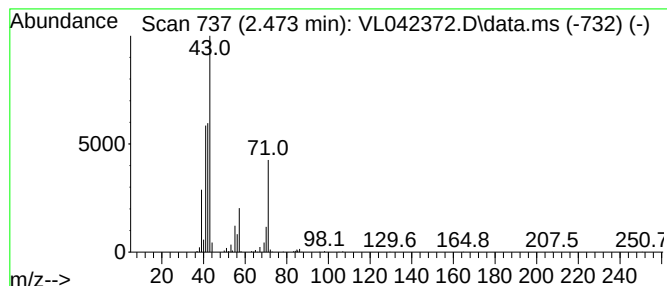
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 3 Pentane, 2-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.473	4.12 ppbv	172311	Bromochloromethane	2.787

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Pentane, 2-methyl-	86	C6H14	000107-83-5	83
2			Pentane, 2-methyl-	86	C6H14	000107-83-5	78
3			Pentane, 2-methyl-	86	C6H14	000107-83-5	78
4			Pentane, 2-methyl-	86	C6H14	000107-83-5	78
5			Pentane, 2-methyl-	86	C6H14	000107-83-5	78



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042372.D
Acq On : 17 Apr 2025 23:26
Operator : SY/MD
Sample : Q1726-07
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

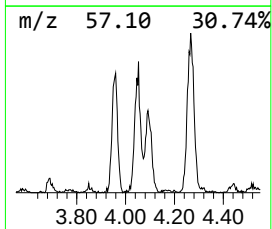
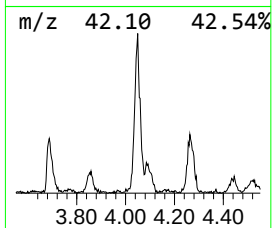
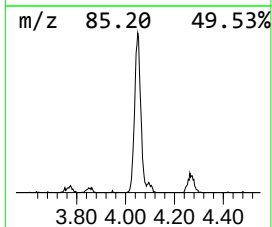
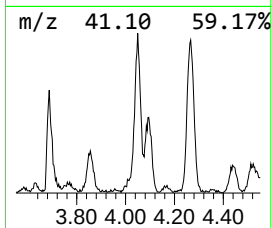
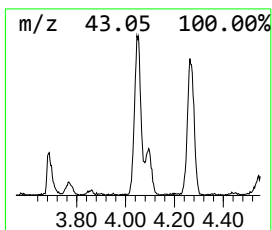
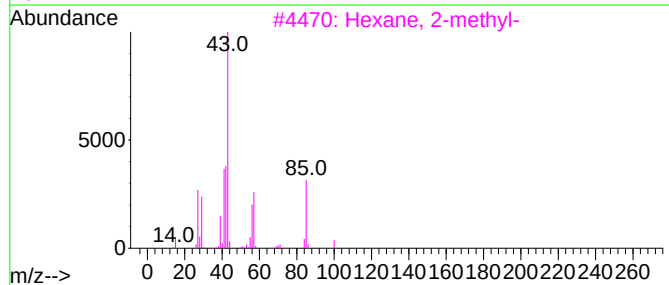
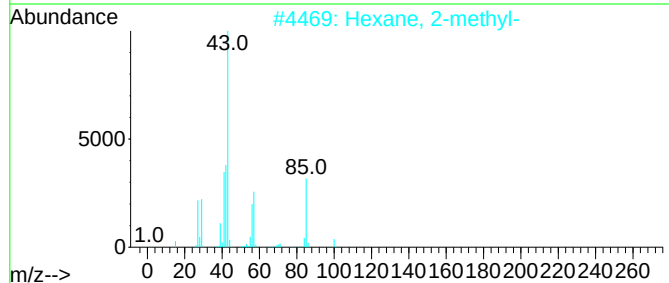
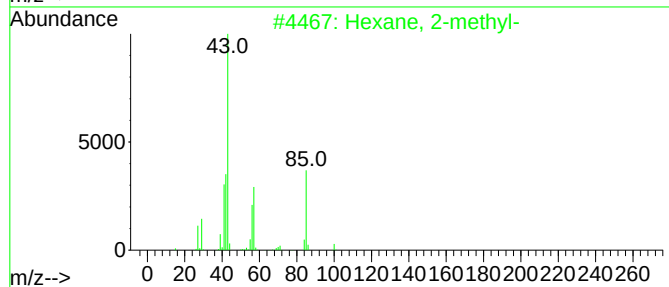
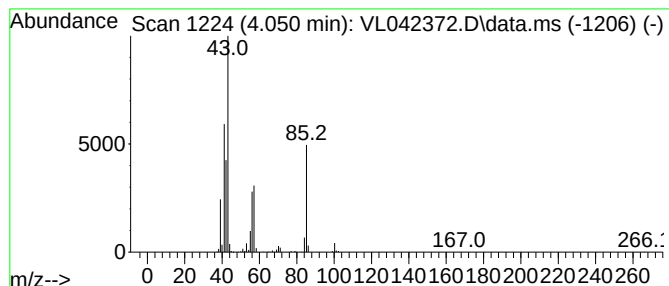
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.050	5.36 ppbv	456330	1,4-Difluorobenzene	3.956

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	72
4			Pentane, 2,4-dimethyl-	100	C7H16	000108-08-7	64
5			Octane	114	C8H18	000111-65-9	50



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042372.D
Acq On : 17 Apr 2025 23:26
Operator : SY/MD
Sample : Q1726-07
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

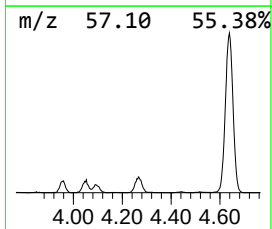
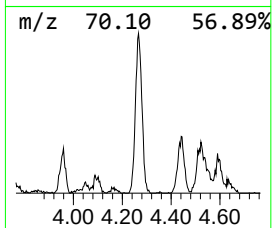
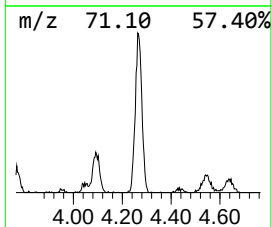
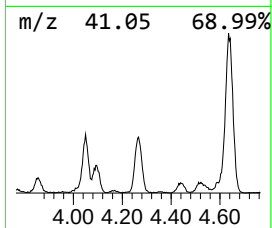
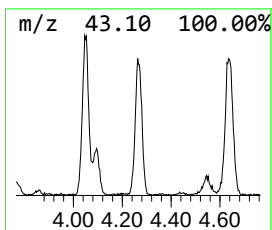
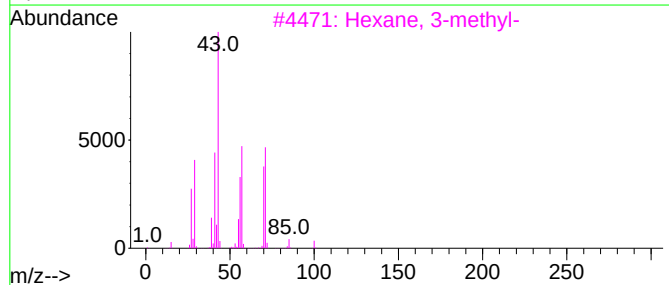
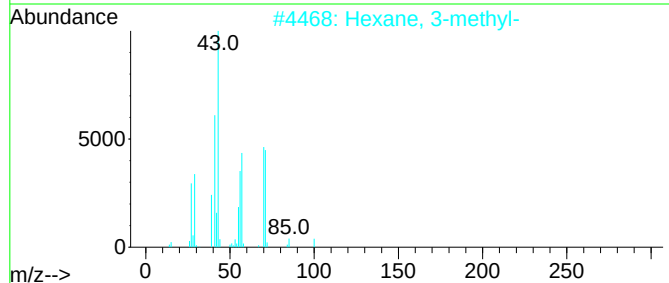
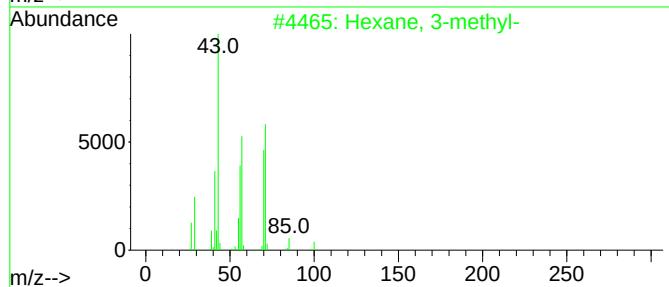
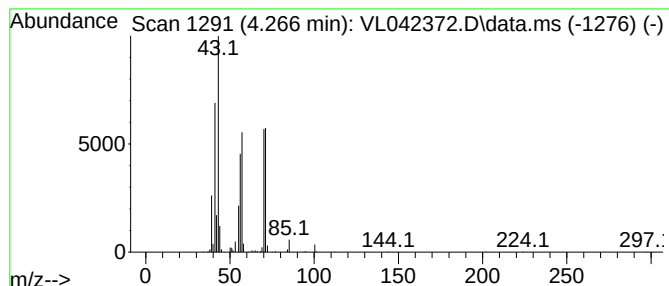
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 5 Hexane, 3-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.266	5.82 ppbv	495297	1,4-Difluorobenzene	3.956

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	72
4			Heptane, 4-methyl-	114	C8H18	000589-53-7	53
5			Pentane, 3-ethyl-	100	C7H16	000617-78-7	53



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042372.D
Acq On : 17 Apr 2025 23:26
Operator : SY/MD
Sample : Q1726-07
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

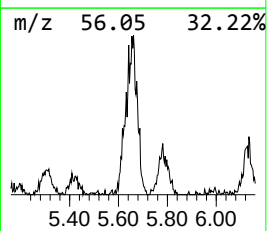
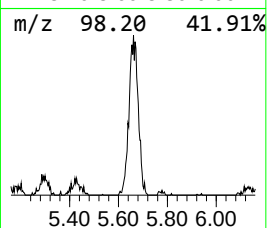
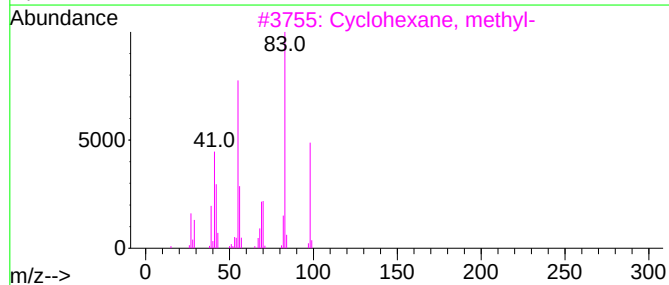
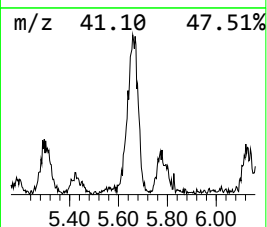
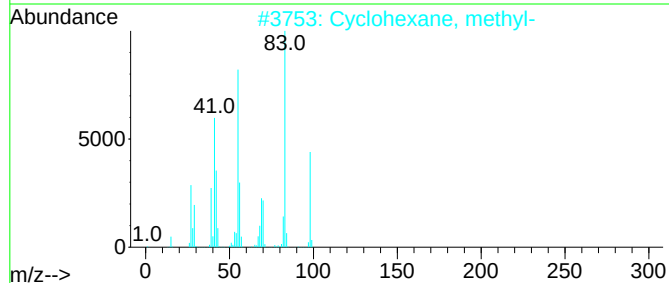
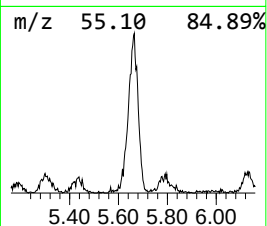
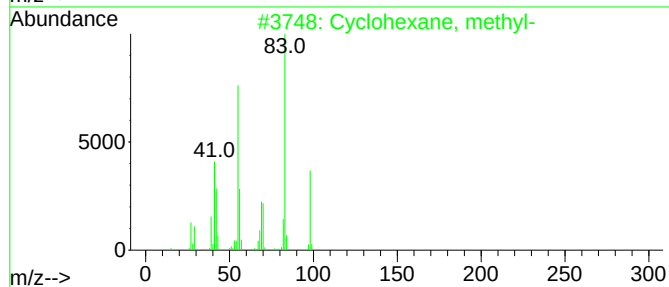
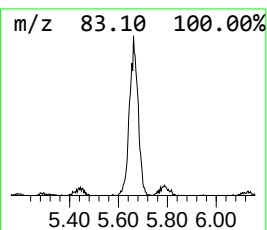
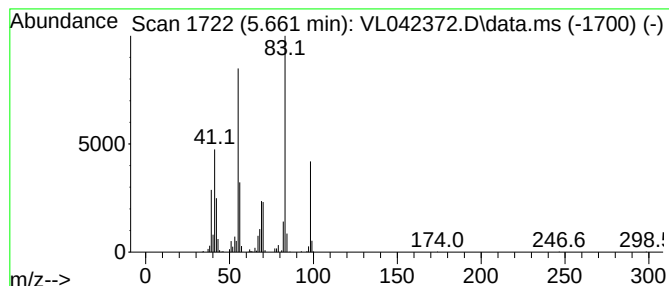
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 6 Cyclohexane, methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.661	4.99 ppbv	424241	1,4-Difluorobenzene	3.956

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Cyclohexane, methyl-	98	C7H14	000108-87-2	97
2			Cyclohexane, methyl-	98	C7H14	000108-87-2	93
3			Cyclohexane, methyl-	98	C7H14	000108-87-2	93
4			Cyclohexane, methyl-	98	C7H14	000108-87-2	80
5			2-Pentene, 3,4-dimethyl-, (E)-	98	C7H14	004914-92-5	64



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042372.D
Acq On : 17 Apr 2025 23:26
Operator : SY/MD
Sample : Q1726-07
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

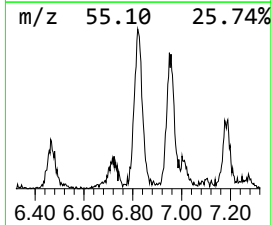
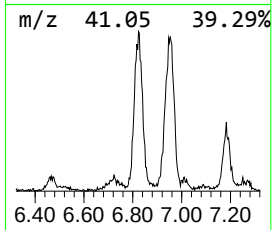
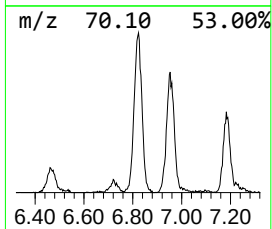
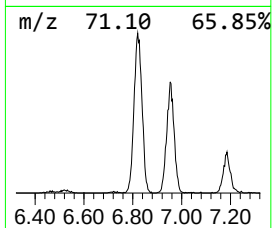
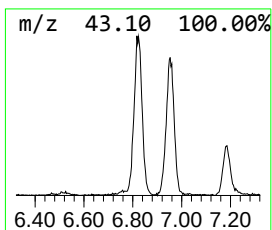
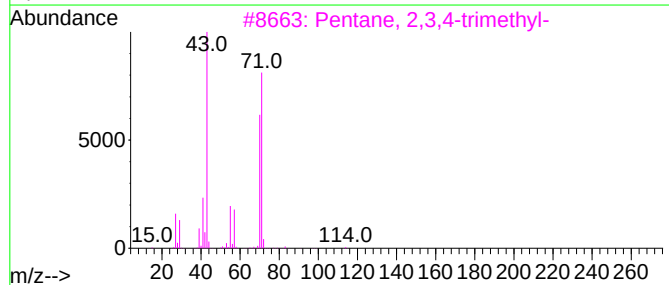
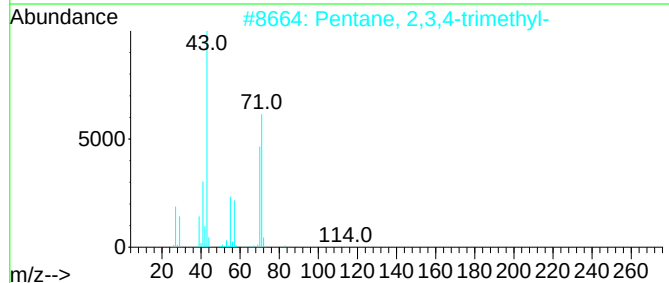
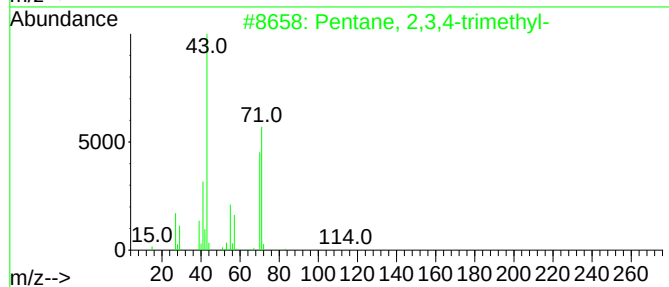
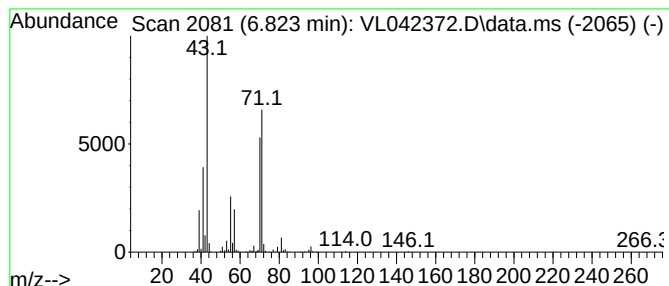
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 7 Pentane, 2,3,4-trimethyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.823	7.11 ppbv	763726	Chlorobenzene-d5	8.879

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	90
2			Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	90
3			Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	86
4			Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	86
5			Heptane, 4-methyl-	114	C8H18	000589-53-7	78



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042372.D
Acq On : 17 Apr 2025 23:26
Operator : SY/MD
Sample : Q1726-07
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

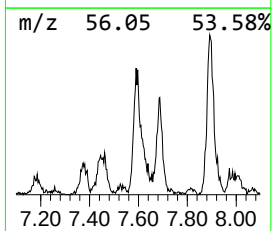
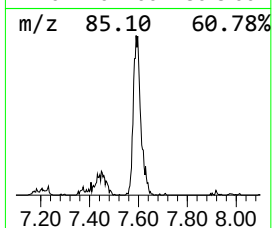
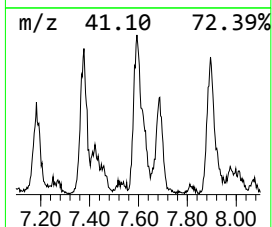
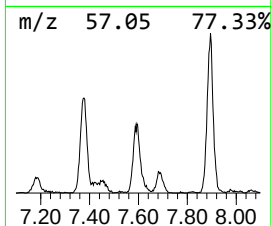
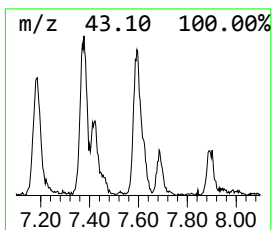
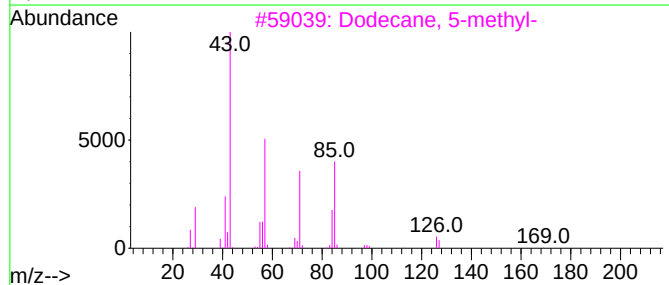
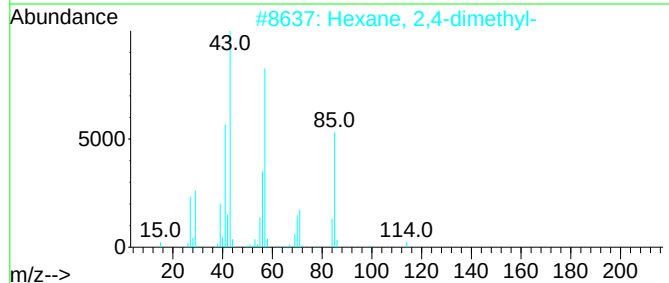
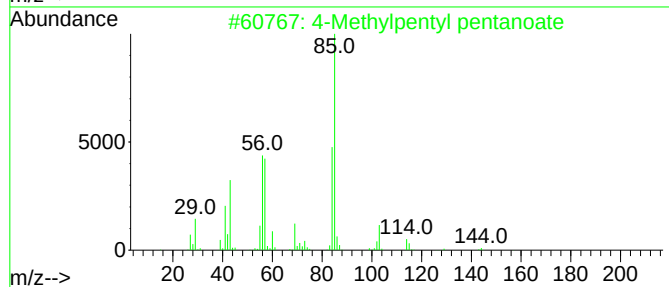
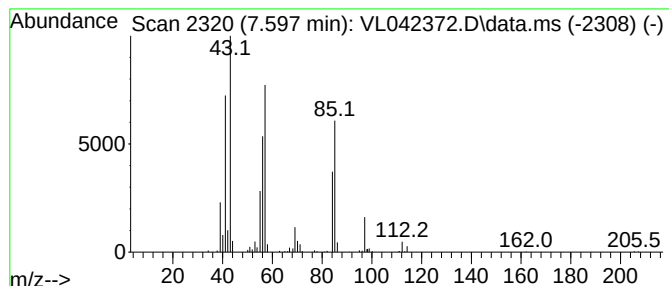
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 8 4-Methylpentyl pentanoate Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.597	4.67 ppbv	501113	Chlorobenzene-d5	8.879

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			4-Methylpentyl pentanoate	186	C11H22O2	035852-47-2	64
2			Hexane, 2,4-dimethyl-	114	C8H18	000589-43-5	58
3			Dodecane, 5-methyl-	184	C13H28	017453-93-9	53
4			Hexane, 1,1'-oxybis-	186	C12H26O	000112-58-3	53
5			Hexane, 1,1'-oxybis-	186	C12H26O	000112-58-3	53



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042372.D
Acq On : 17 Apr 2025 23:26
Operator : SY/MD
Sample : Q1726-07
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

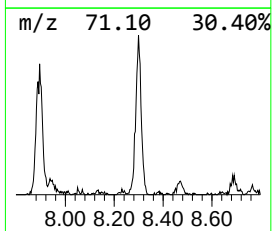
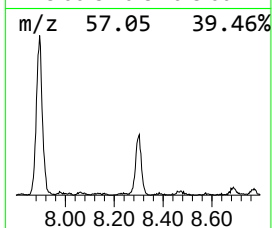
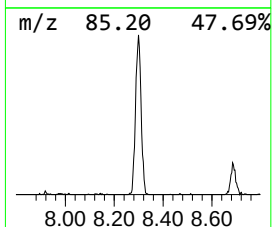
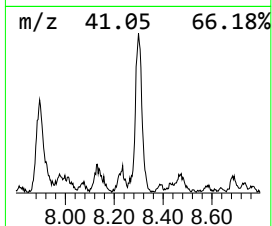
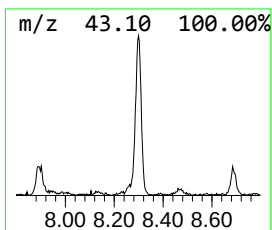
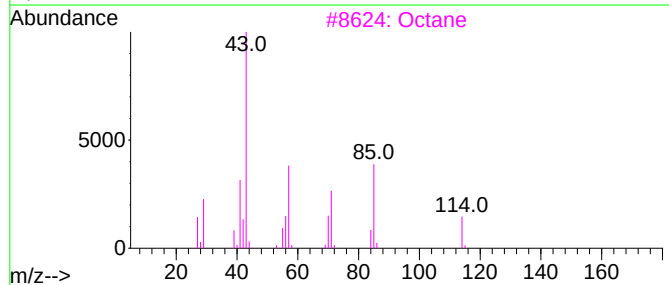
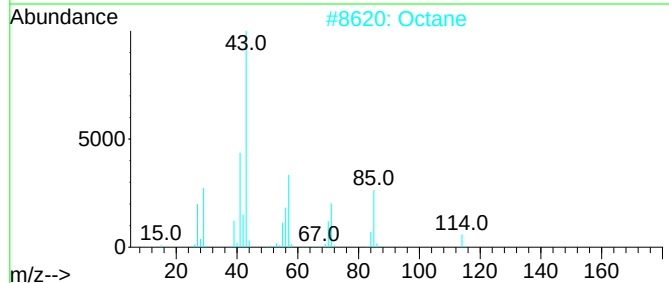
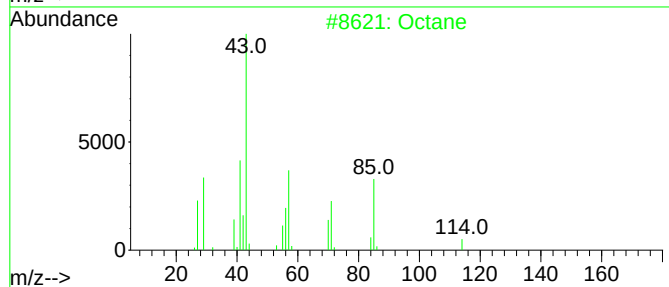
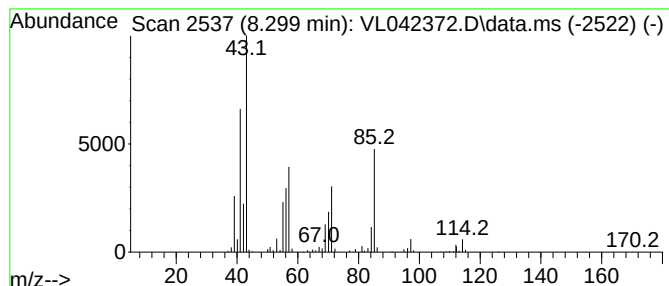
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 9 Octane Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.299	5.11 ppbv	548237	Chlorobenzene-d5	8.879

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octane		114	C8H18	000111-65-9	87
2	Octane		114	C8H18	000111-65-9	74
3	Octane		114	C8H18	000111-65-9	64
4	Heptane, 2,3-dimethyl-		128	C9H20	003074-71-3	64
5	Heptane, 2,4-dimethyl-		128	C9H20	002213-23-2	53



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042372.D
Acq On : 17 Apr 2025 23:26
Operator : SY/MD
Sample : Q1726-07
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

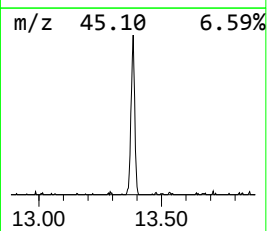
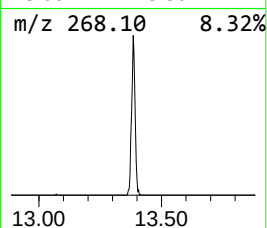
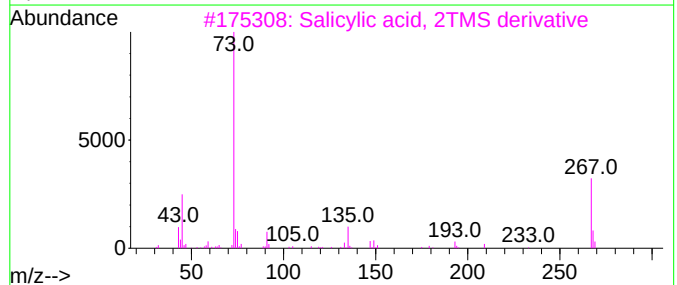
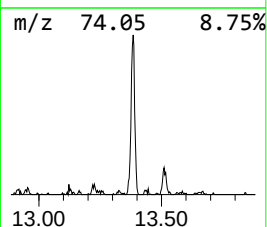
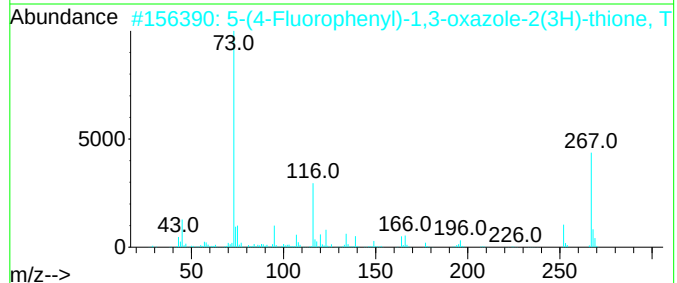
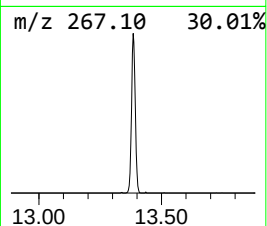
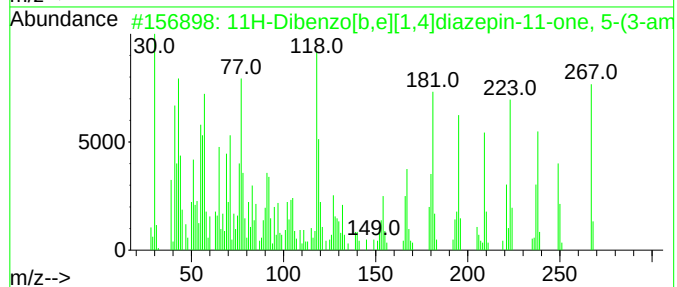
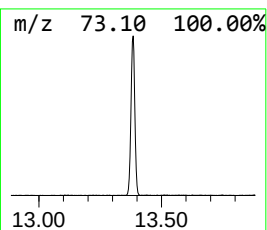
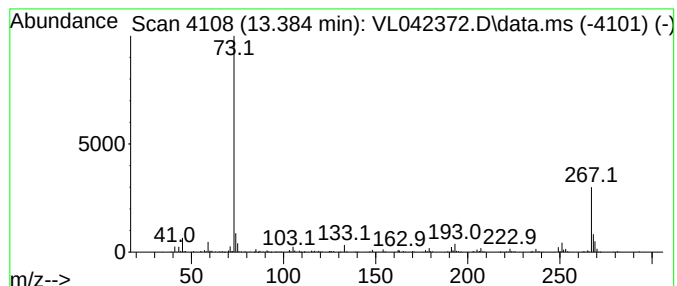
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 10 11H-Dibenzo[b,e][1,4]diazep... Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.384	4.32 ppbv	463895	Chlorobenzene-d5	8.879

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			11H-Dibenzo[b,e][1,4]diazepin-11...	267	C16H17N3O	013450-73-2	94
2			5-(4-Fluorophenyl)-1,3-oxazole-2...	267	C12H14FNOSSi	1000497-07-6	50
3			Salicylic acid, 2TMS derivative	282	C13H22O3Si2	003789-85-3	45
4			Salicylic acid, 2TMS derivative	282	C13H22O3Si2	003789-85-3	45
5			Salicylic acid, 2TMS derivative	282	C13H22O3Si2	003789-85-3	45



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042372.D
Acq On : 17 Apr 2025 23:26
Operator : SY/MD
Sample : Q1726-07
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

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
Butane	1.619	8.8	ppbv	370310	1	2.787	418293	10.0
1-Propanol	2.273	5.0	ppbv	208922	1	2.787	418293	10.0
Pentane, 2-methyl-	2.473	4.1	ppbv	172311	1	2.787	418293	10.0
Hexane, 2-methyl-	4.050	5.4	ppbv	456330	2	3.956	850976	10.0
Hexane, 3-methyl-	4.266	5.8	ppbv	495297	2	3.956	850976	10.0
Cyclohexane, me...	5.661	5.0	ppbv	424241	2	3.956	850976	10.0
Pentane, 2,3,4-...	6.823	7.1	ppbv	763726	3	8.879	1073720	10.0
4-Methylpentyl ...	7.597	4.7	ppbv	501113	3	8.879	1073720	10.0
Octane	8.299	5.1	ppbv	548237	3	8.879	1073720	10.0
11H-Dibenzo[b,e...	13.384	4.3	ppbv	463895	3	8.879	1073720	10.0

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-4-03312025DL	SDG No.:	Q1726
Lab Sample ID:	Q1726-07DL	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
VL042373.D	20		04/17/25 23:57	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	4.20	20.8	UD	20.8	49.5	ug/m3
64-17-5	Ethanol	380	716	EDQ	12.1	18.8	ug/m3
74-87-3	Chloromethane	2.00	4.13	UD	4.13	20.6	ug/m3
75-01-4	Vinyl Chloride	0.28	0.72	UD	0.72	1.53	ug/m3
74-83-9	Bromomethane	2.80	10.9	UD	10.9	38.8	ug/m3
75-00-3	Chloroethane	3.40	8.97	UD	8.97	26.4	ug/m3
109-99-9	Tetrahydrofuran	2.60	7.67	UD	7.67	29.5	ug/m3
75-69-4	Trichlorofluoromethane	3.20	18.0	UD	18.0	56.2	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	3.20	24.5	UD	24.5	76.7	ug/m3
76-14-2	Dichlorotetrafluoroethane	1.80	12.6	UD	12.6	69.9	ug/m3
593-60-2	Bromoethene	2.40	10.5	UD	10.5	43.7	ug/m3
75-65-0	tert-Butyl alcohol	3.80	11.5	UD	11.5	30.3	ug/m3
142-82-5	Heptane	5.10	20.9	JD	9.02	41.0	ug/m3
67-63-0	Isopropyl Alcohol	37.9	93.2	D	3.44	24.6	ug/m3
75-35-4	1,1-Dichloroethene	2.80	11.1	UD	11.1	39.6	ug/m3
67-64-1	Acetone	590	1400	ED	11.4	23.8	ug/m3
75-15-0	Carbon Disulfide	3.20	9.97	UD	9.97	31.1	ug/m3
1634-04-4	Methyl tert-Butyl Ether	2.40	8.65	UD	8.65	36.0	ug/m3
75-09-2	Methylene Chloride	3.80	13.2	UD	13.2	34.7	ug/m3
156-60-5	trans-1,2-Dichloroethene	3.80	15.1	UD	15.1	39.6	ug/m3
75-34-3	1,1-Dichloroethane	2.60	10.5	UD	10.5	40.5	ug/m3
110-82-7	Cyclohexane	4.40	15.2	UD	15.2	34.4	ug/m3
78-93-3	2-Butanone	2.40	7.08	UD	7.08	29.5	ug/m3
56-23-5	Carbon Tetrachloride	0.22	1.38	UD	1.38	3.77	ug/m3
156-59-2	cis-1,2-Dichloroethene	1.80	7.14	UD	7.14	39.6	ug/m3
67-66-3	Chloroform	1.70	8.30	UD	8.30	48.8	ug/m3
71-55-6	1,1,1-Trichloroethane	0.19	1.04	UD	1.04	3.27	ug/m3
540-84-1	2,2,4-Trimethylpentane	10.9	50.9	D	9.34	46.7	ug/m3
71-43-2	Benzene	1.70	5.43	UD	5.43	31.9	ug/m3
107-06-2	1,2-Dichloroethane	1.80	7.29	UD	7.29	40.5	ug/m3
79-01-6	Trichloroethene	0.34	1.83	UD	1.83	3.22	ug/m3
78-87-5	1,2-Dichloropropane	2.20	10.2	UD	10.2	46.2	ug/m3
75-27-4	Bromodichloromethane	1.50	10.1	UD	10.1	67.0	ug/m3
108-10-1	4-Methyl-2-Pentanone	1.90	7.79	UD	7.79	41.0	ug/m3
108-88-3	Toluene	27.3	103	D	8.29	37.7	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-4-03312025DL	SDG No.:	Q1726
Lab Sample ID:	Q1726-07DL	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
VL042373.D	20		04/17/25 23:57	VL041725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	1.20	5.45	UD	5.45	45.4	ug/m3
10061-01-5	cis-1,3-Dichloropropene	1.30	5.90	UD	5.90	45.4	ug/m3
79-00-5	1,1,2-Trichloroethane	1.40	7.64	UD	7.64	54.6	ug/m3
124-48-1	Dibromochloromethane	1.30	11.1	UD	11.1	85.2	ug/m3
106-93-4	1,2-Dibromoethane	1.40	10.8	UD	10.8	15.4	ug/m3
127-18-4	Tetrachloroethene	0.30	2.03	UD	2.03	4.07	ug/m3
108-90-7	Chlorobenzene	1.50	6.91	UD	6.91	46.0	ug/m3
100-41-4	Ethyl Benzene	5.10	22.1	JD	10.4	43.4	ug/m3
179601-23-1	m/p-Xylene	17.7	76.9	JD	18.2	86.9	ug/m3
95-47-6	o-Xylene	6.80	29.5	JD	10.4	43.4	ug/m3
100-42-5	Styrene	2.20	9.37	UD	9.37	42.6	ug/m3
75-25-2	Bromoform	1.10	11.4	UD	11.4	103	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.22	1.51	UD	1.51	4.12	ug/m3
95-49-8	2-Chlorotoluene	2.20	11.4	UD	11.4	51.8	ug/m3
108-67-8	1,3,5-Trimethylbenzene	3.60	17.7	JD	10.8	49.2	ug/m3
95-63-6	1,2,4-Trimethylbenzene	9.40	46.2	JD	7.87	49.2	ug/m3
541-73-1	1,3-Dichlorobenzene	1.60	9.62	UD	9.62	60.1	ug/m3
106-46-7	1,4-Dichlorobenzene	1.10	6.61	UD	6.61	60.1	ug/m3
95-50-1	1,2-Dichlorobenzene	1.50	9.02	UD	9.02	60.1	ug/m3
120-82-1	1,2,4-Trichlorobenzene	1.70	12.6	UD	12.6	74.2	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	1.70	18.1	UD	18.1	107	ug/m3
106-99-0	1,3-Butadiene	2.60	5.75	UD	5.75	22.1	ug/m3
91-20-3	Naphthalene	1.50	7.86	UD	7.86	10.5	ug/m3
622-96-8	4-Ethyltoluene	2.60	12.8	JD	11.8	49.2	ug/m3
110-54-3	Hexane	2.20	7.75	UD	7.75	35.2	ug/m3
107-05-1	Allyl Chloride	3.00	9.39	UD	9.39	31.3	ug/m3
123-91-1	1,4-Dioxane	4.20	15.1	UD	15.1	36.0	ug/m3
80-62-6	Methyl Methacrylate	1.70	6.96	UD	6.96	41.0	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	108000	2.784
540-36-3	1,4-Difluorobenzene	303000	3.952
3114-55-4	Chlorobenzene-d5	266000	8.875

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-4-03312025DL	SDG No.:	Q1726
Lab Sample ID:	Q1726-07DL	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
VL042373.D	20		04/17/25 23:57	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 : VL042373.D
 Acq On : 17 Apr 2025 23:57
 Operator : SY/MD
 Sample : Q1726-07DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-4-03312025DL

Manual Integrations
 APPROVED

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

Quant Time: Apr 18 02:47:24 2025

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

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri 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	2.784	49	107602	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	303479	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	266154	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	220060	10.062	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 100.600%	
Target Compounds						
					Qvalue	
9) Propene	1.486	41	1529m	0.185	ppbv	
10) Heptane	4.972	43	5885m	0.254	ppbv	
13) Ethanol	1.719	45	24762	18.897	ppbv	74
15) Acetone	1.832	43	515571	29.269	ppbv	99
19) Isopropyl Alcohol	1.884	45	18557	1.896	ppbv #	1
44) 2,2,4-Trimethylpentane	4.639	57	30736m	0.544	ppbv	
53) Toluene	6.927	91	53637	1.365	ppbv	97
58) Ethyl Benzene	9.348	91	13474	0.256	ppbv	99
59) m/p-Xylene	9.529	91	37603m	0.885	ppbv	
60) o-Xylene	9.960	91	14506	0.339	ppbv	98
72) 4-Ethyltoluene	11.122	105	6684	0.128	ppbv #	56
73) 1,3,5-Trimethylbenzene	11.199	105	8296	0.180	ppbv	95
74) 1,2,4-Trimethylbenzene	11.536	105	25240	0.468	ppbv #	62

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

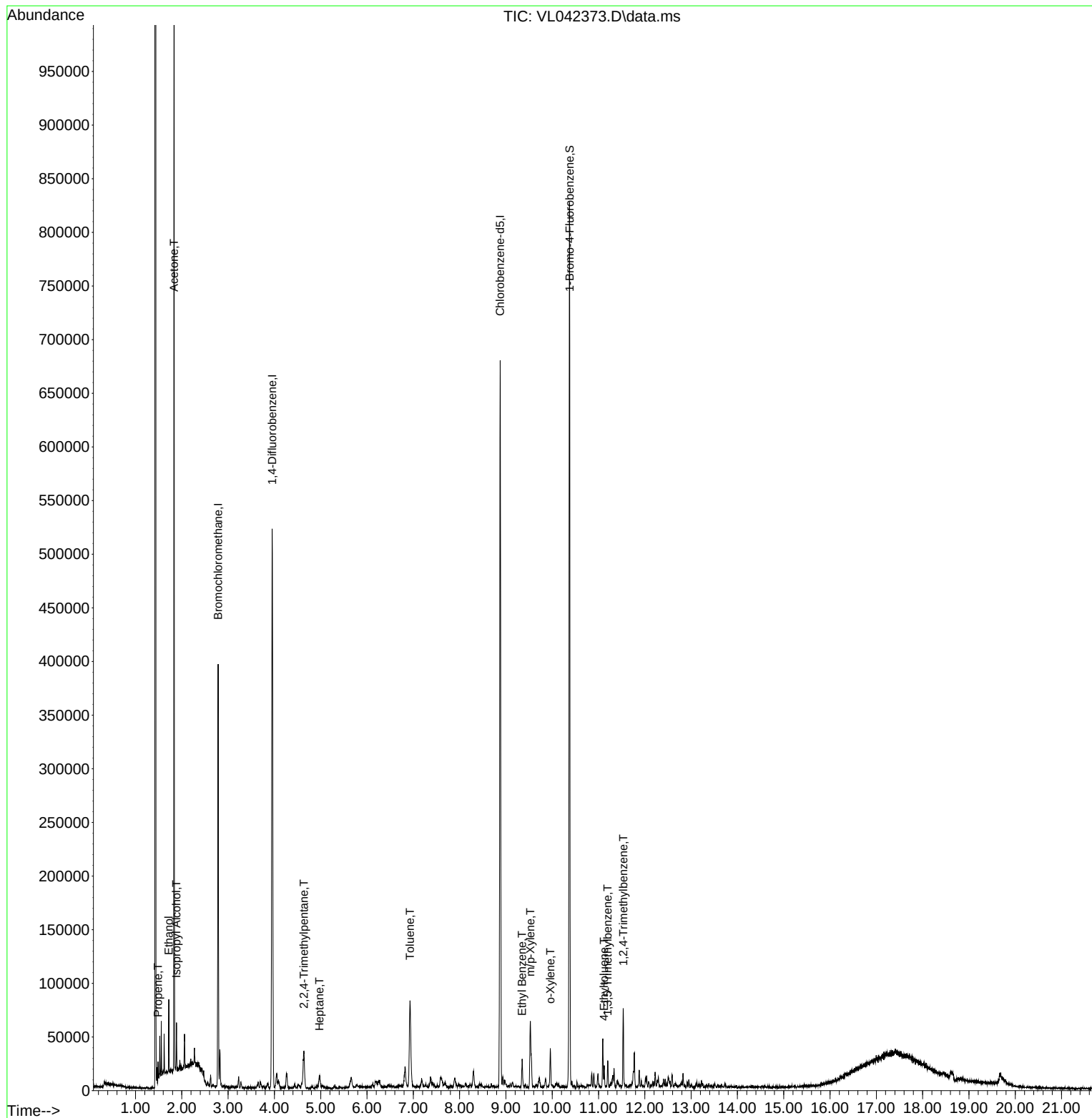
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042373.D
Acq On : 17 Apr 2025 23:57
Operator : SY/MD
Sample : Q1726-07DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

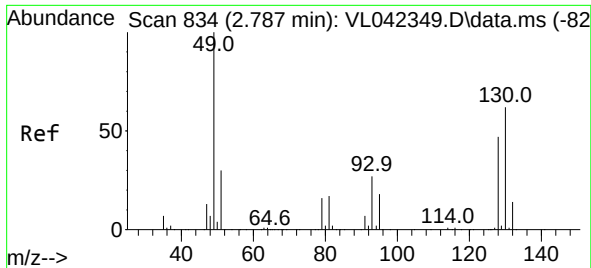
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL

Quant Time: Apr 18 02:47:24 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

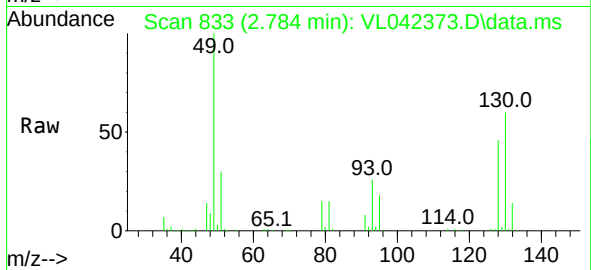
Reviewed By : Semsettin Yesilyurt 04/18/2025
Supervised By : Mahesh Dadoda 04/18/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

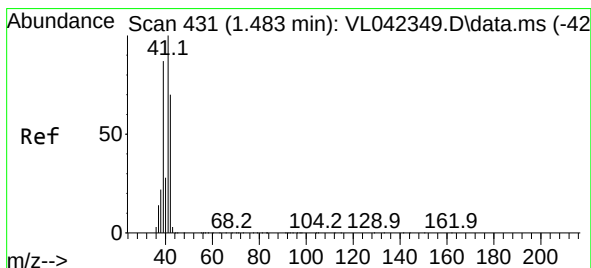
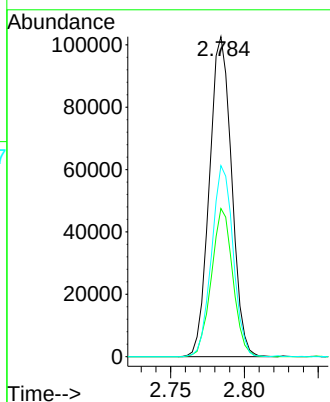
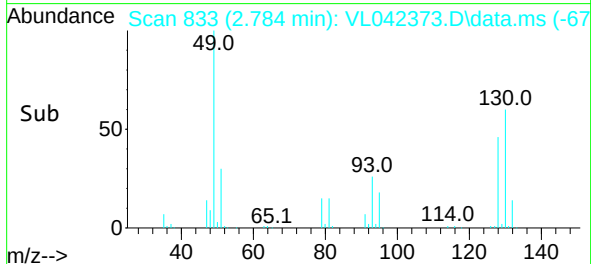
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL



Tgt Ion: 49 Resp: 107602
Ion Ratio Lower Upper
49 100
128 44.6 22.8 68.4
130 58.0 29.3 88.0

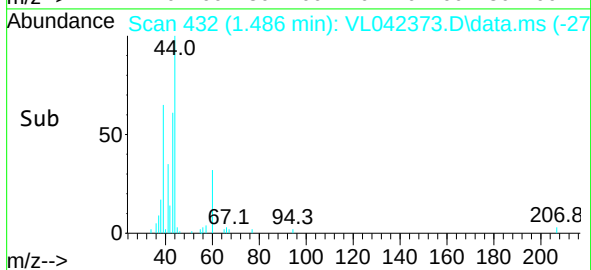
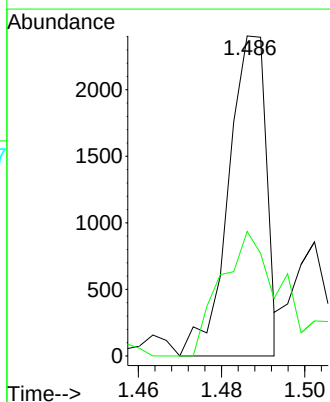
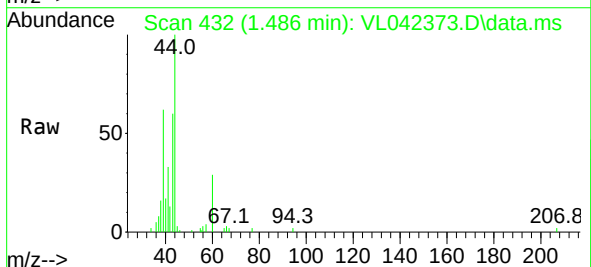
Manual Integrations
APPROVED

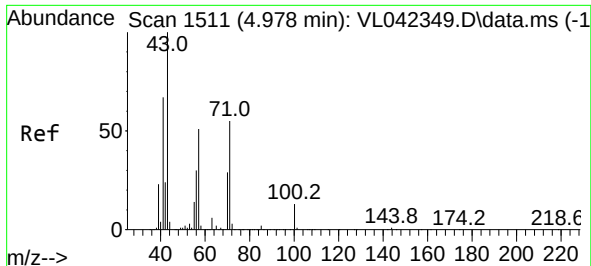
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#9
Propene
Concen: 0.185 ppbv m
RT: 1.486 min Scan# 432
Delta R.T. 0.004 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

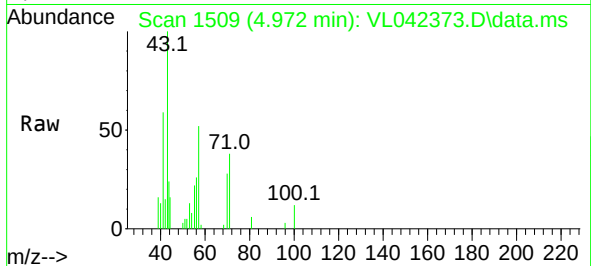
Tgt Ion: 41 Resp: 1529
Ion Ratio Lower Upper
41 100
42 228.9 56.2 84.4#





#10
Heptane
Concen: 0.254 ppbv m
RT: 4.972 min Scan# 1511
Delta R.T. -0.006 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

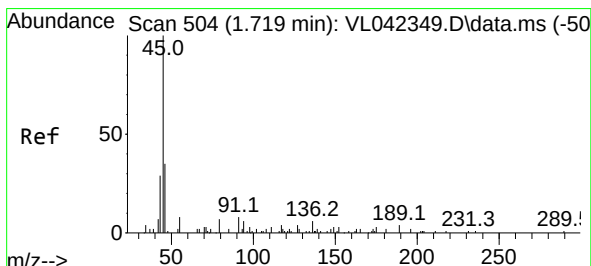
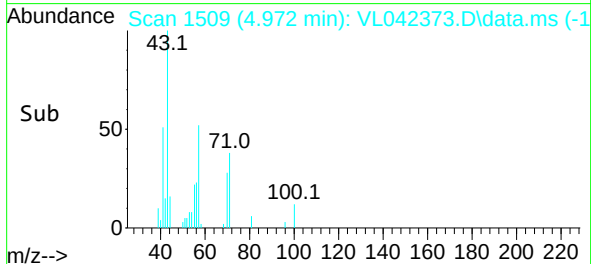
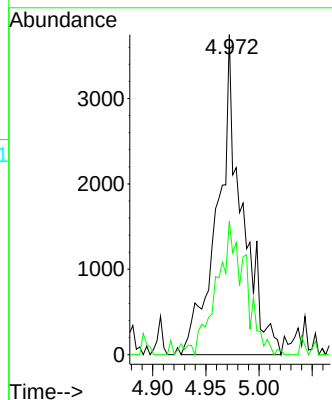
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL



Tgt Ion: 43 Resp: 588
Ion Ratio Lower Upper
43 100
57 50.8 39.9 59.9

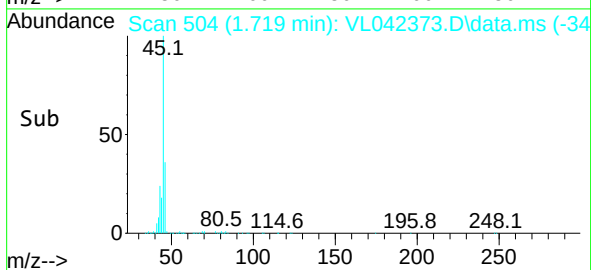
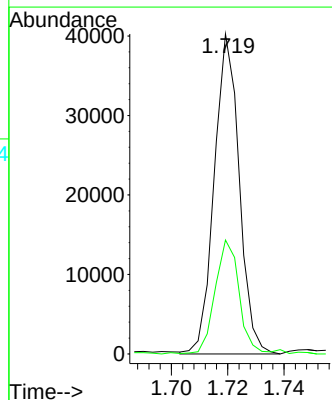
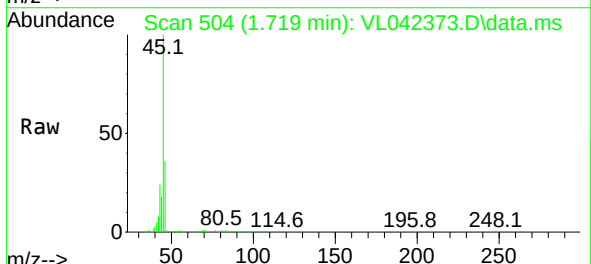
Manual Integrations
APPROVED

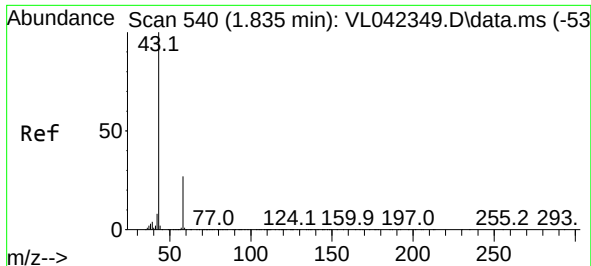
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#13
Ethanol
Concen: 18.897 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

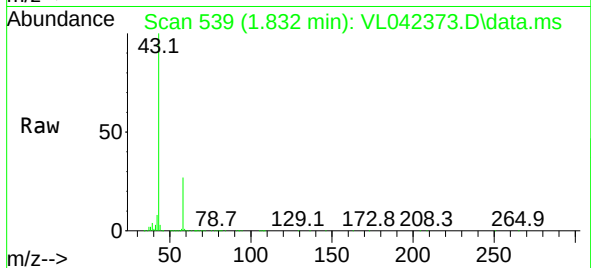
Tgt Ion: 45 Resp: 24762
Ion Ratio Lower Upper
45 100
46 35.9 21.9 87.7





#15
Acetone
Concen: 29.269 ppbv
RT: 1.832 min Scan# 515
Delta R.T. -0.003 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

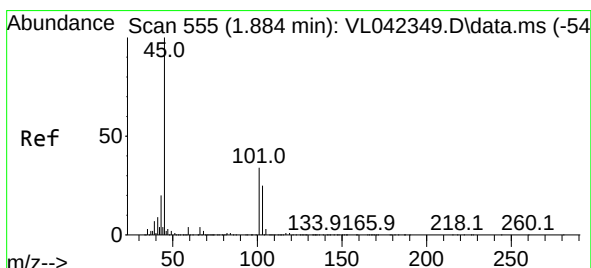
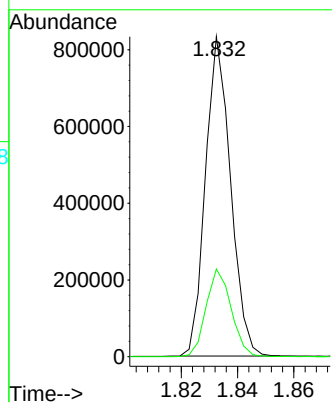
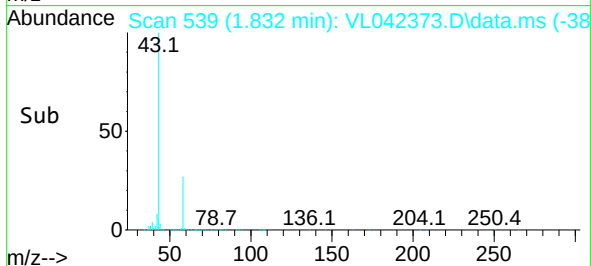
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL



Tgt Ion: 43 Resp: 51557
Ion Ratio Lower Upper
43 100
58 27.6 22.4 33.6

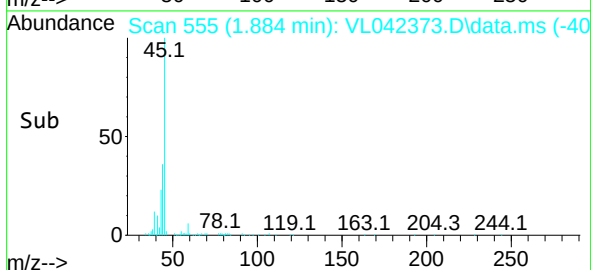
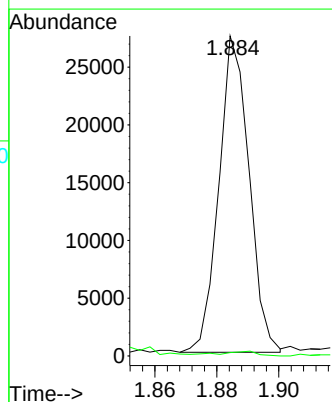
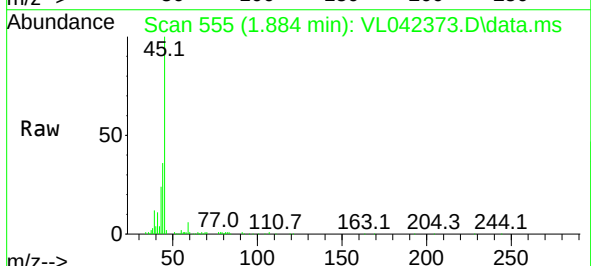
Manual Integrations
APPROVED

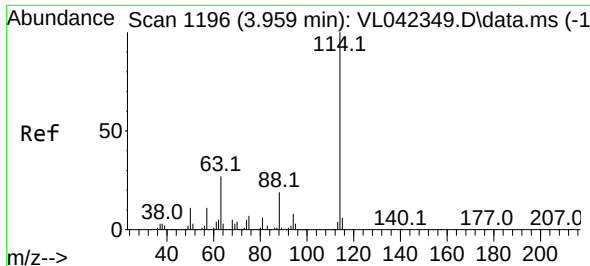
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#19
Isopropyl Alcohol
Concen: 1.896 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.000 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

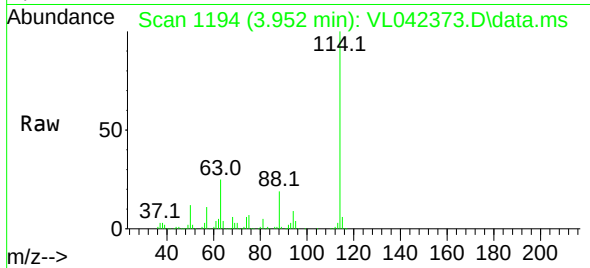
Tgt Ion: 45 Resp: 18557
Ion Ratio Lower Upper
45 100
58 767.1 34.5 51.7#





#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.952 min Scan# 1194
 Delta R.T. -0.006 min
 Lab File: VL042373.D
 Acq: 17 Apr 2025 23:57

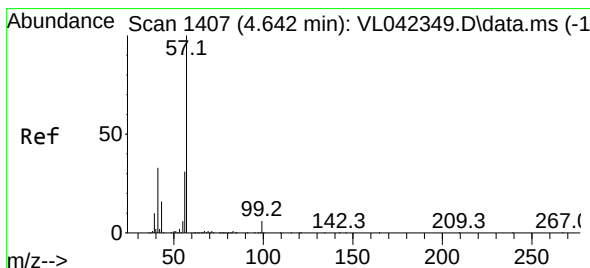
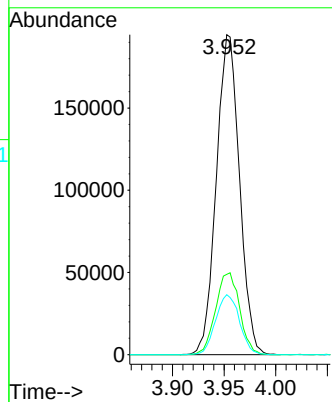
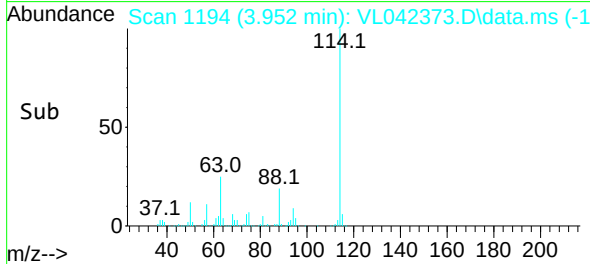
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-4-03312025DL



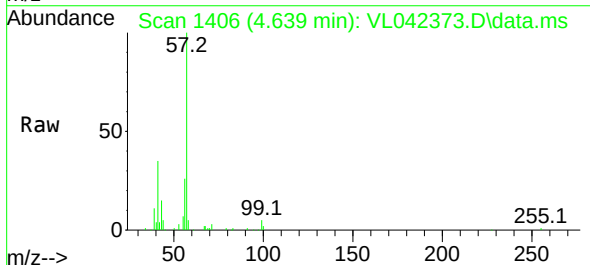
Tgt Ion: 114 Resp: 303479
 Ion Ratio Lower Upper
 114 100
 63 26.5 21.8 32.6
 88 19.4 15.5 23.3

Manual Integrations
 APPROVED

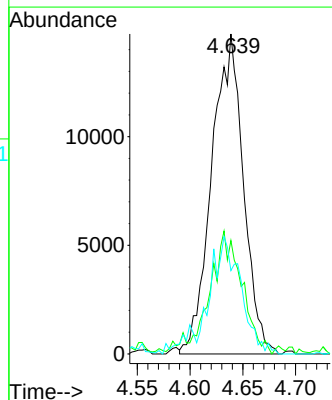
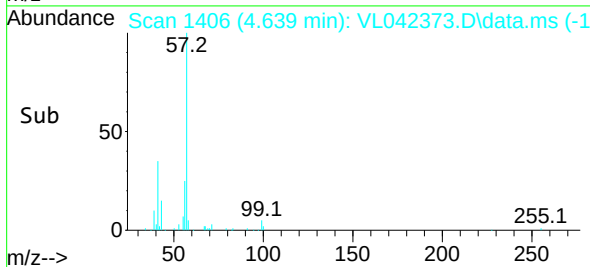
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

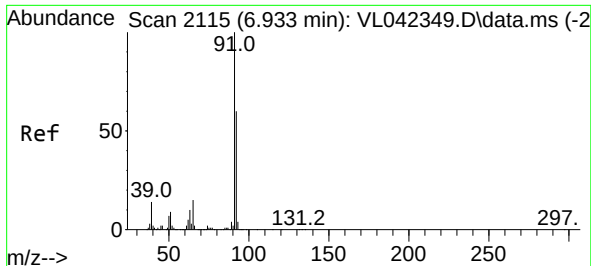


#44
 2,2,4-Trimethylpentane
 Concen: 0.544 ppbv m
 RT: 4.639 min Scan# 1406
 Delta R.T. -0.003 min
 Lab File: VL042373.D
 Acq: 17 Apr 2025 23:57



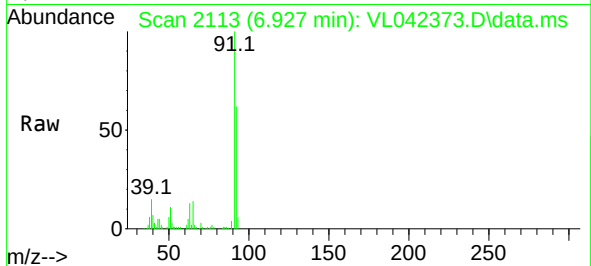
Tgt Ion: 57 Resp: 30736
 Ion Ratio Lower Upper
 57 100
 41 39.9 27.2 40.8
 56 38.4 25.7 38.5





#53
Toluene
Concen: 1.365 ppbv
RT: 6.927 min Scan# 2115
Delta R.T. -0.006 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

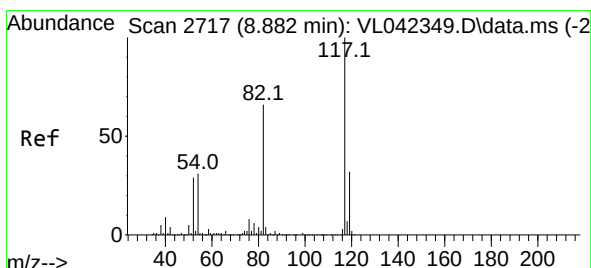
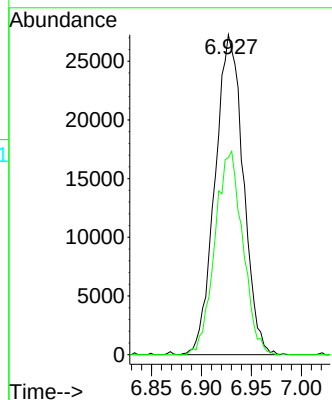
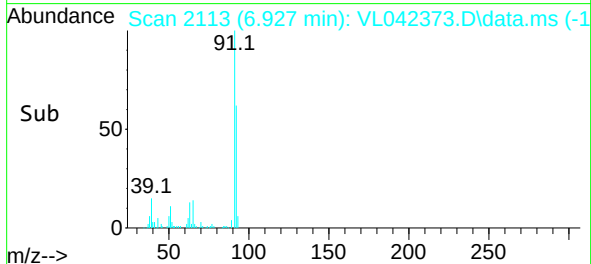
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL



Tgt Ion: 91 Resp: 5363
Ion Ratio Lower Upper
91 100
92 62.9 48.2 72.4

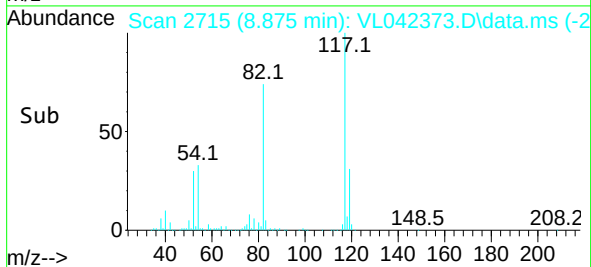
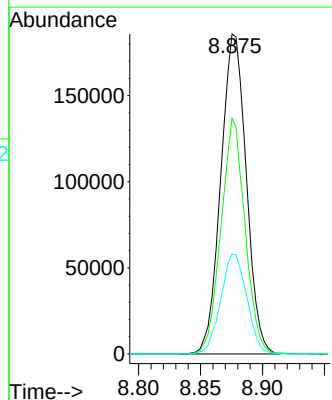
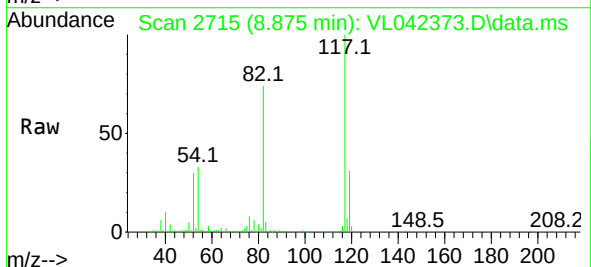
Manual Integrations
APPROVED

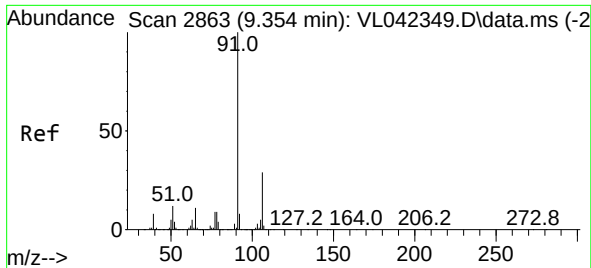
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. -0.006 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

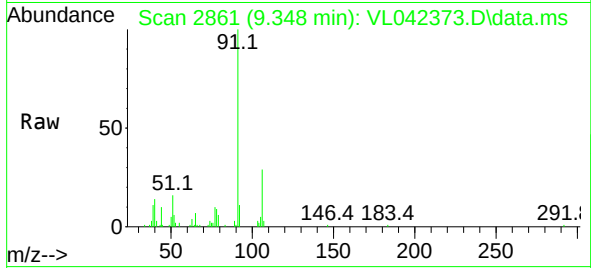
Tgt Ion:117 Resp: 266154
Ion Ratio Lower Upper
117 100
82 69.4 57.8 86.6
119 32.1 25.2 37.8





#58
Ethyl Benzene
Concen: 0.256 ppbv
RT: 9.348 min Scan# 2117
Delta R.T. -0.006 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

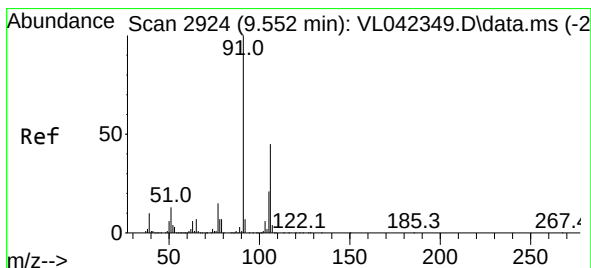
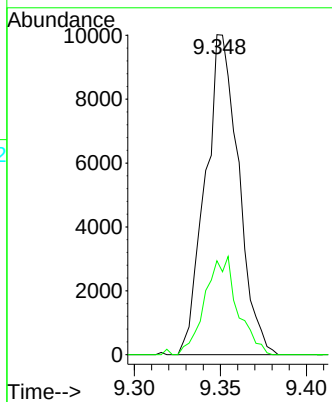
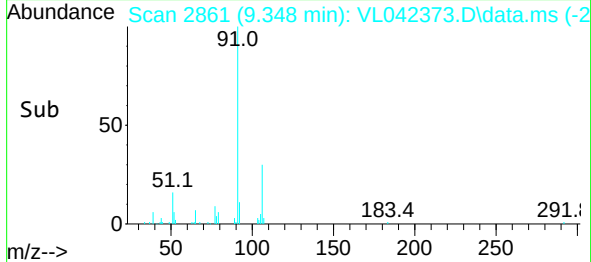
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL



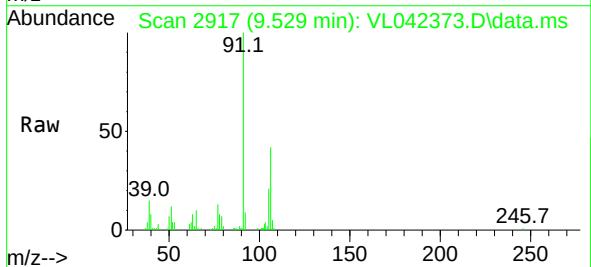
Tgt Ion: 91 Resp: 13474
Ion Ratio Lower Upper
91 100
106 29.4 23.0 34.4

Manual Integrations
APPROVED

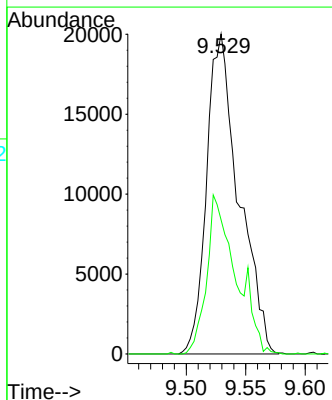
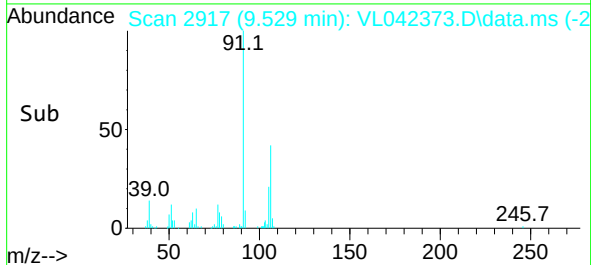
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

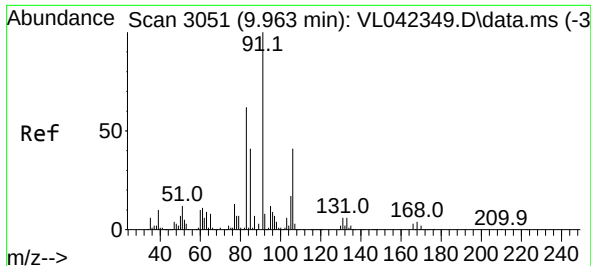


#59
m/p-Xylene
Concen: 0.885 ppbv m
RT: 9.529 min Scan# 2917
Delta R.T. -0.022 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57



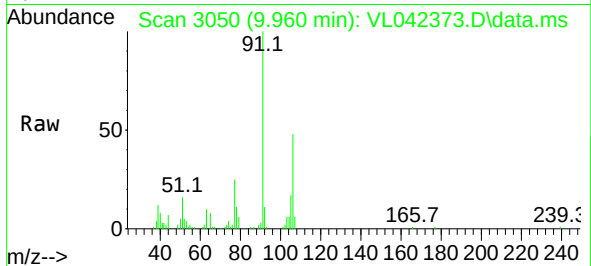
Tgt Ion: 91 Resp: 37603
Ion Ratio Lower Upper
91 100
106 45.1 35.4 53.2





#60
o-Xylene
Concen: 0.339 ppbv
RT: 9.960 min Scan# 3051
Delta R.T. -0.003 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

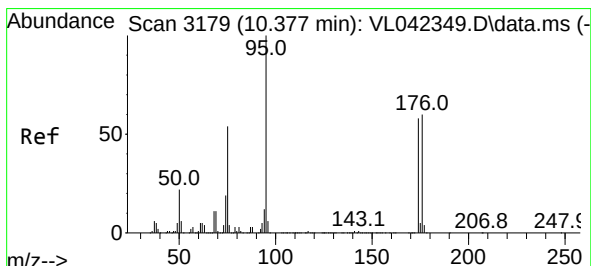
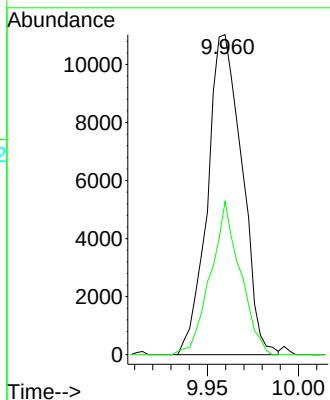
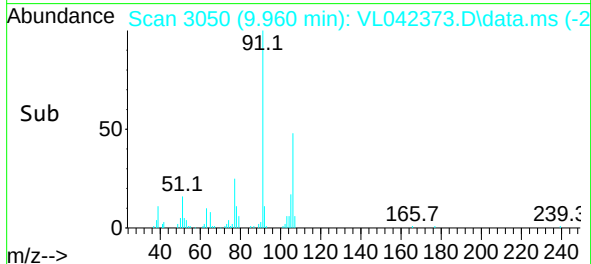
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL



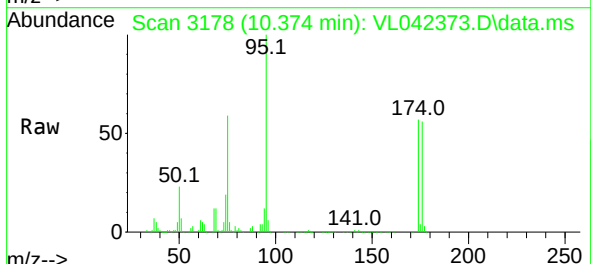
Tgt Ion: 91 Resp: 14500
Ion Ratio Lower Upper
91 100
106 41.3 21.1 63.4

Manual Integrations
APPROVED

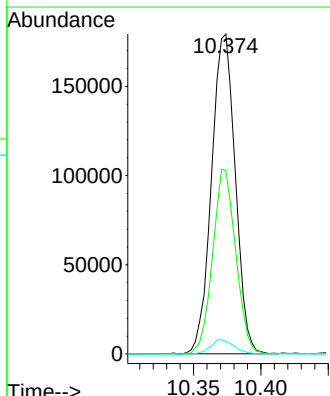
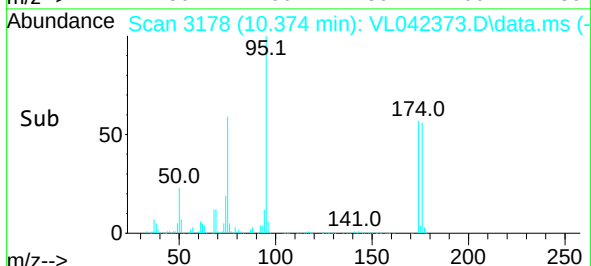
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

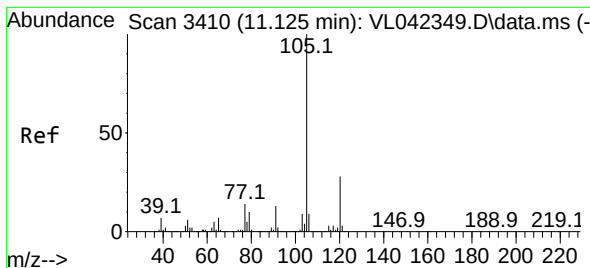


#68
1-Bromo-4-Fluorobenzene
Concen: 10.062 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. -0.003 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57



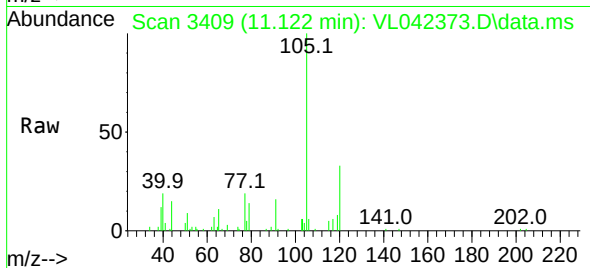
Tgt Ion: 95 Resp: 220060
Ion Ratio Lower Upper
95 100
174 56.3 48.5 72.7
175 4.4 3.7 5.5





#72
4-Ethyltoluene
Concen: 0.128 ppbv
RT: 11.122 min Scan# 3410
Delta R.T. -0.003 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

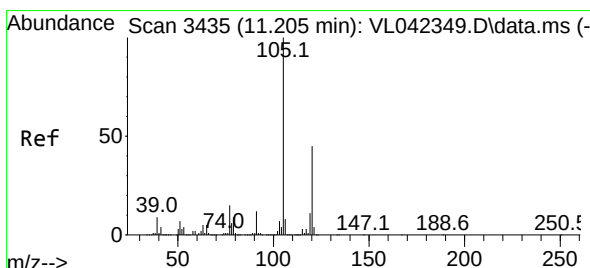
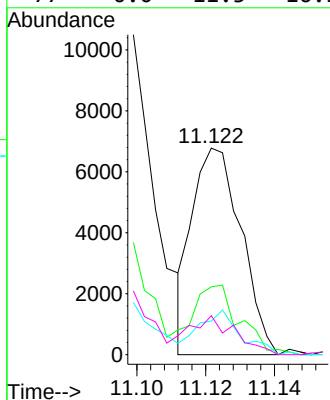
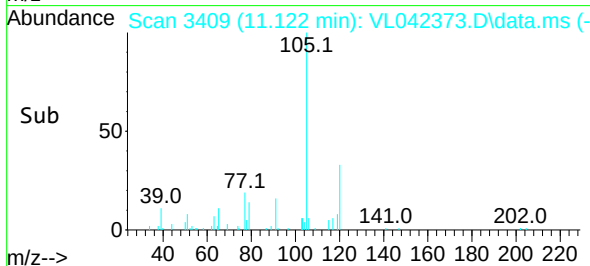
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL



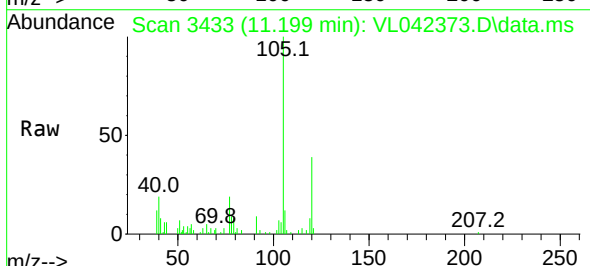
Tgt Ion:105 Resp: 6684
Ion Ratio Lower Upper
105 100
120 0.0 23.2 34.8
91 0.0 10.4 15.6
77 0.0 11.3 16.9#

Manual Integrations
APPROVED

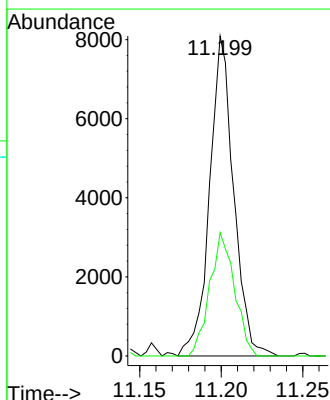
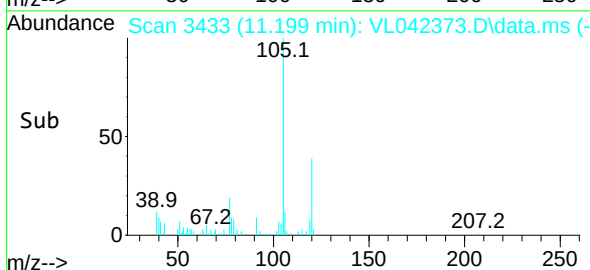
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

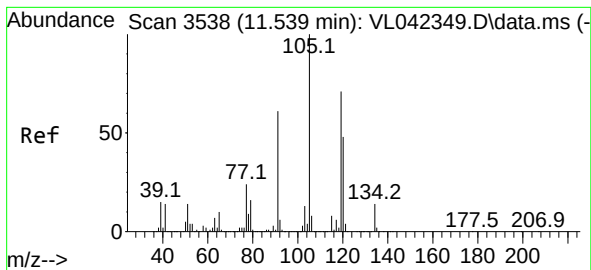


#73
1,3,5-Trimethylbenzene
Concen: 0.180 ppbv
RT: 11.199 min Scan# 3433
Delta R.T. -0.006 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57



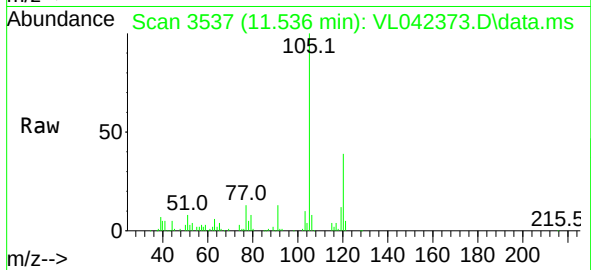
Tgt Ion:105 Resp: 8296
Ion Ratio Lower Upper
105 100
120 41.5 35.6 53.4





#74
 1,2,4-Trimethylbenzene
 Concen: 0.468 ppbv
 RT: 11.536 min Scan# 3537
 Delta R.T. -0.003 min
 Lab File: VL042373.D
 Acq: 17 Apr 2025 23:57

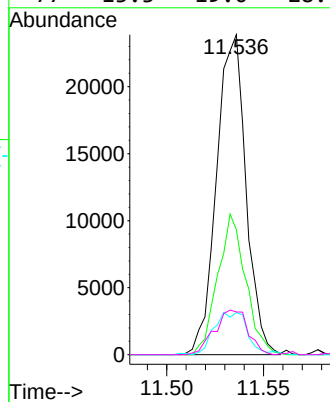
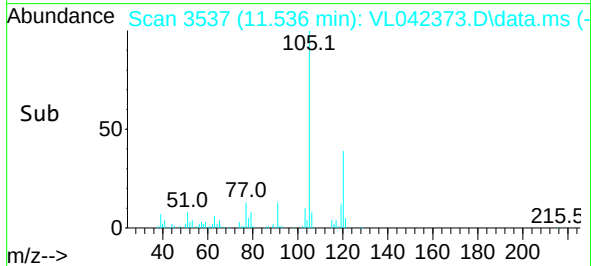
Instrument : MSVOA_L
 ClientSampleId : IA-B2-4-03312025DL



Tgt Ion:	105	Resp:	25240
Ion	Ratio	Lower	Upper
105	100		
120	38.8	38.1	57.1
91	12.8	48.8	73.2
77	13.3	19.0	28.4

Manual Integrations
 APPROVED

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



Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-4-03312025DL2	SDG No.:	Q1726
Lab Sample ID:	Q1726-07DL2	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
VL042386.D	40		04/18/25 12:09	VL041825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	8.40	41.5	UD	41.5	98.9	ug/m3
64-17-5	Ethanol	270	509	DQ	24.1	37.7	ug/m3
74-87-3	Chloromethane	3.90	8.05	UD	8.05	41.3	ug/m3
75-01-4	Vinyl Chloride	0.56	1.43	UD	1.43	3.07	ug/m3
74-83-9	Bromomethane	5.60	21.7	UD	21.7	77.7	ug/m3
75-00-3	Chloroethane	6.80	17.9	UD	17.9	52.8	ug/m3
109-99-9	Tetrahydrofuran	5.20	15.3	UDQ	15.3	59.0	ug/m3
75-69-4	Trichlorofluoromethane	6.40	36.0	UD	36.0	112	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	6.40	49.0	UD	49.0	153	ug/m3
76-14-2	Dichlorotetrafluoroethane	3.50	24.5	UD	24.5	140	ug/m3
593-60-2	Bromoethene	4.80	21.0	UD	21.0	87.4	ug/m3
75-65-0	tert-Butyl alcohol	7.60	23.0	UD	23.0	60.6	ug/m3
142-82-5	Heptane	4.40	18.0	UDQ	18.0	82.0	ug/m3
67-63-0	Isopropyl Alcohol	29.6	72.8	D	6.88	49.2	ug/m3
75-35-4	1,1-Dichloroethene	5.60	22.2	UD	22.2	79.3	ug/m3
67-64-1	Acetone	470	1120	D	22.8	47.5	ug/m3
75-15-0	Carbon Disulfide	6.40	19.9	UD	19.9	62.3	ug/m3
1634-04-4	Methyl tert-Butyl Ether	4.80	17.3	UD	17.3	72.1	ug/m3
75-09-2	Methylene Chloride	7.60	26.4	UD	26.4	69.5	ug/m3
156-60-5	trans-1,2-Dichloroethene	7.60	30.1	UD	30.1	79.3	ug/m3
75-34-3	1,1-Dichloroethane	5.20	21.1	UD	21.1	81.0	ug/m3
110-82-7	Cyclohexane	8.80	30.3	UD	30.3	68.8	ug/m3
78-93-3	2-Butanone	4.80	14.2	UD	14.2	59.0	ug/m3
56-23-5	Carbon Tetrachloride	0.44	2.77	UD	2.77	7.55	ug/m3
156-59-2	cis-1,2-Dichloroethene	3.60	14.3	UD	14.3	79.3	ug/m3
67-66-3	Chloroform	3.30	16.1	UD	16.1	97.7	ug/m3
71-55-6	1,1,1-Trichloroethane	0.38	2.07	UD	2.07	6.55	ug/m3
540-84-1	2,2,4-Trimethylpentane	7.20	33.6	JD	18.7	93.4	ug/m3
71-43-2	Benzene	3.50	11.2	UD	11.2	63.9	ug/m3
107-06-2	1,2-Dichloroethane	3.60	14.6	UD	14.6	81.0	ug/m3
79-01-6	Trichloroethene	0.68	3.65	UD	3.65	6.45	ug/m3
78-87-5	1,2-Dichloropropane	4.40	20.3	UD	20.3	92.4	ug/m3
75-27-4	Bromodichloromethane	3.10	20.8	UD	20.8	134	ug/m3
108-10-1	4-Methyl-2-Pentanone	3.70	15.2	UD	15.2	82.0	ug/m3
108-88-3	Toluene	18.3	69.0	JD	16.6	75.4	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-4-03312025DL2	SDG No.:	Q1726
Lab Sample ID:	Q1726-07DL2	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
VL042386.D	40		04/18/25 12:09	VL041825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	2.40	10.9	UD	10.9	90.8	ug/m3
10061-01-5	cis-1,3-Dichloropropene	2.60	11.8	UD	11.8	90.8	ug/m3
79-00-5	1,1,2-Trichloroethane	2.80	15.3	UD	15.3	109	ug/m3
124-48-1	Dibromochloromethane	2.60	22.1	UD	22.1	170	ug/m3
106-93-4	1,2-Dibromoethane	2.90	22.3	UD	22.3	30.7	ug/m3
127-18-4	Tetrachloroethene	0.60	4.07	UD	4.07	8.14	ug/m3
108-90-7	Chlorobenzene	3.00	13.8	UD	13.8	92.1	ug/m3
100-41-4	Ethyl Benzene	4.80	20.9	UD	20.9	86.9	ug/m3
179601-23-1	m/p-Xylene	12.2	53.0	JD	36.5	174	ug/m3
95-47-6	o-Xylene	4.80	20.9	UD	20.9	86.9	ug/m3
100-42-5	Styrene	4.40	18.7	UD	18.7	85.2	ug/m3
75-25-2	Bromoform	2.30	23.8	UD	23.8	207	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	0.44	3.02	UD	3.02	8.24	ug/m3
95-49-8	2-Chlorotoluene	4.40	22.8	UD	22.8	104	ug/m3
108-67-8	1,3,5-Trimethylbenzene	4.40	21.6	UD	21.6	98.3	ug/m3
95-63-6	1,2,4-Trimethylbenzene	3.10	15.2	UD	15.2	98.3	ug/m3
541-73-1	1,3-Dichlorobenzene	3.20	19.2	UD	19.2	120	ug/m3
106-46-7	1,4-Dichlorobenzene	2.10	12.6	UD	12.6	120	ug/m3
95-50-1	1,2-Dichlorobenzene	3.00	18.0	UD	18.0	120	ug/m3
120-82-1	1,2,4-Trichlorobenzene	3.40	25.2	UD	25.2	148	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	3.40	36.3	UD	36.3	213	ug/m3
106-99-0	1,3-Butadiene	5.20	11.5	UD	11.5	44.3	ug/m3
91-20-3	Naphthalene	3.00	15.7	UD	15.7	21.0	ug/m3
622-96-8	4-Ethyltoluene	4.80	23.6	UD	23.6	98.3	ug/m3
110-54-3	Hexane	4.40	15.5	UD	15.5	70.5	ug/m3
107-05-1	Allyl Chloride	6.00	18.8	UD	18.8	62.6	ug/m3
123-91-1	1,4-Dioxane	8.40	30.3	UD	30.3	72.1	ug/m3
80-62-6	Methyl Methacrylate	3.40	13.9	UDQ	13.9	81.9	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	138000	2.787
540-36-3	1,4-Difluorobenzene	425000	3.955
3114-55-4	Chlorobenzene-d5	369000	8.878

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/01/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/03/25
Client Sample ID:	IA-B2-4-03312025DL2	SDG No.:	Q1726
Lab Sample ID:	Q1726-07DL2	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
VL042386.D	40		04/18/25 12:09	VL041825

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\VL041825\
 Data File : VL042386.D
 Acq On : 18 Apr 2025 12:09
 Operator : SY/MD
 Sample : Q1726-07DL2 40X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-4-03312025DL2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2025
 Supervised By :Mahesh Dadoda 04/21/2025

Quant Time: Apr 18 22:57:29 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	137576	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	424572	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	368674	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	298684	9.859	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.600%
Target Compounds						
					Qvalue	
9) Propene	1.622	41	2578	0.245	ppbv	99
13) Ethanol	1.722	45	11275	6.730	ppbv	79
15) Acetone	1.835	43	264945	11.764	ppbv	100
19) Isopropyl Alcohol	1.887	45	9262	0.740	ppbv #	1
44) 2,2,4-Trimethylpentane	4.638	57	14250	0.180	ppbv #	88
53) Toluene	6.930	91	25162m	0.458	ppbv	
59) m/p-Xylene	9.529	91	17952m	0.305	ppbv	
60) o-Xylene	9.963	91	6838	0.115	ppbv	94

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

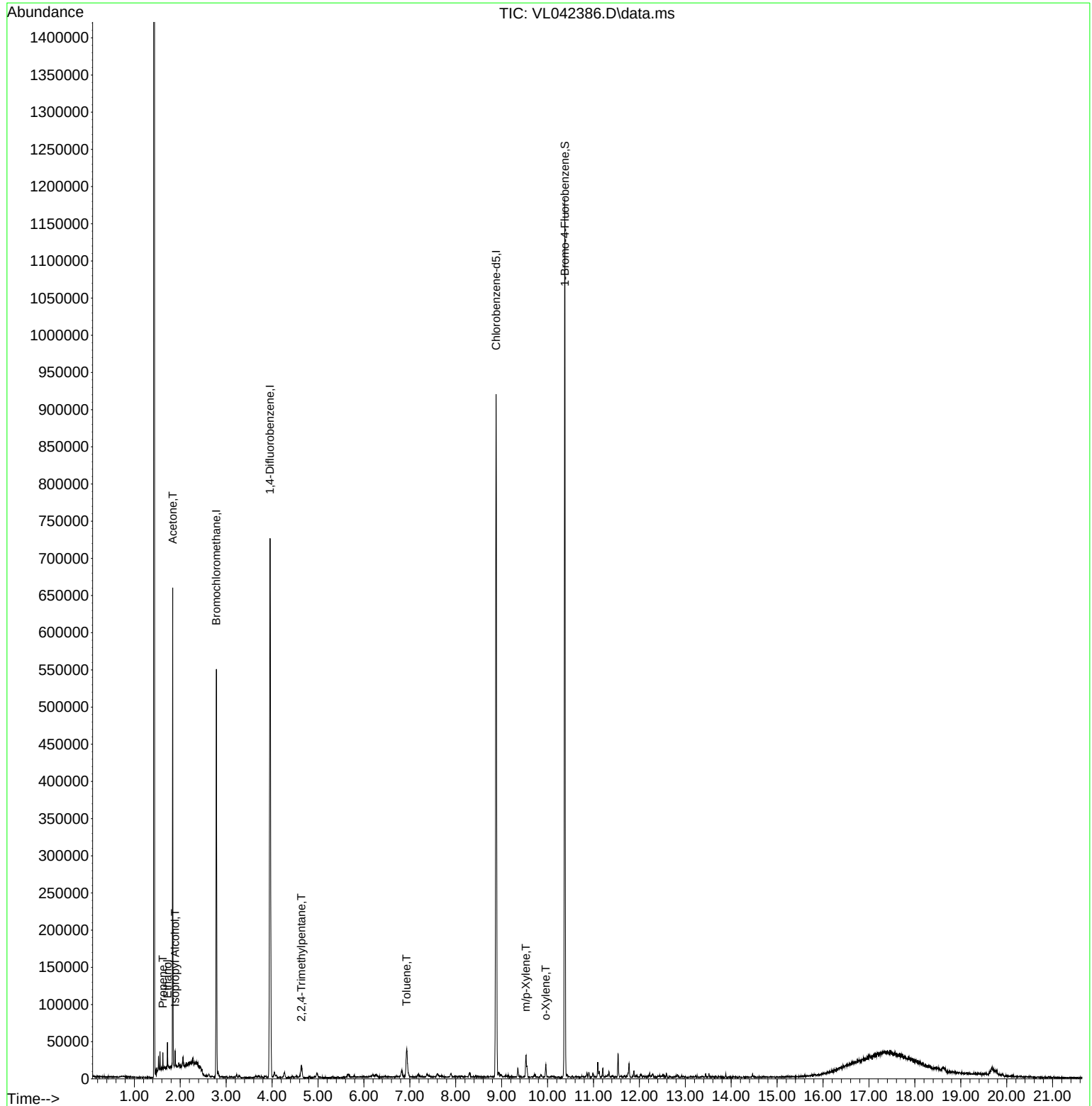
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
Data File : VL042386.D
Acq On : 18 Apr 2025 12:09
Operator : SY/MD
Sample : Q1726-07DL2 40X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

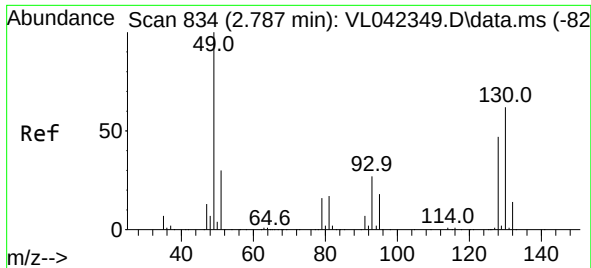
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

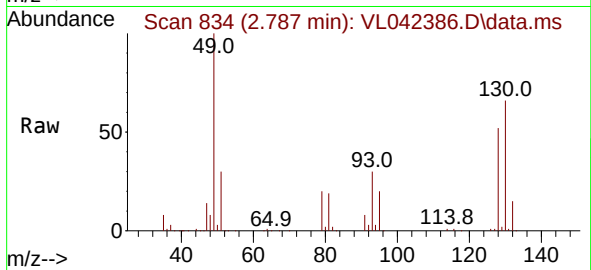
Quant Time: Apr 18 22:57:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. 0.000 min
Lab File: VL042386.D
Acq: 18 Apr 2025 12:09

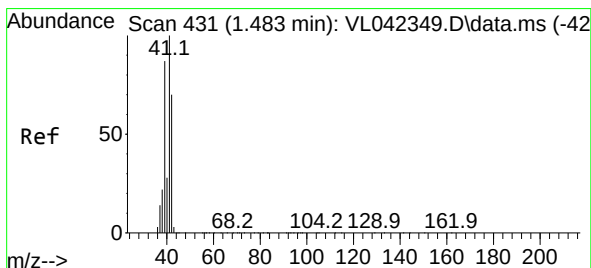
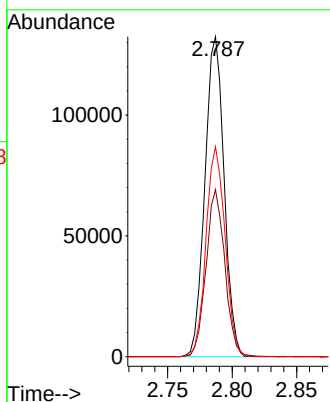
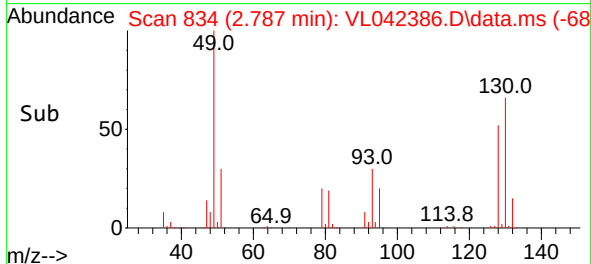
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL2



Tgt Ion: 49 Resp: 137570
Ion Ratio Lower Upper
49 100
128 50.8 22.8 68.4
130 65.1 29.3 88.0

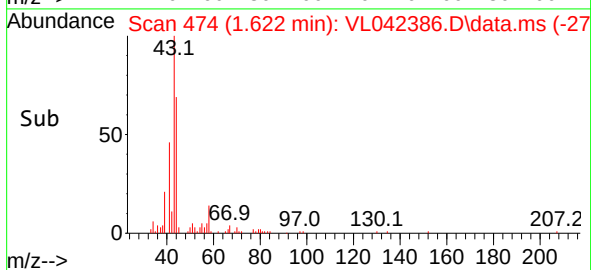
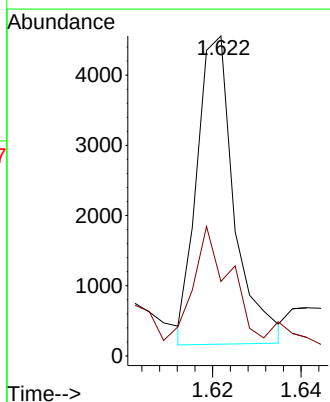
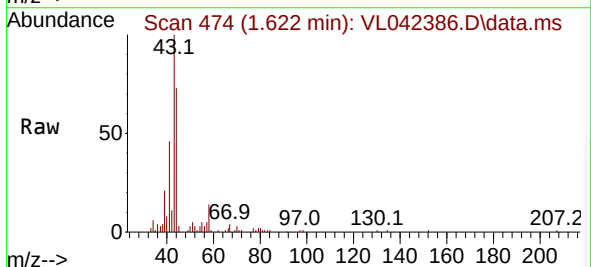
Manual Integrations
APPROVED

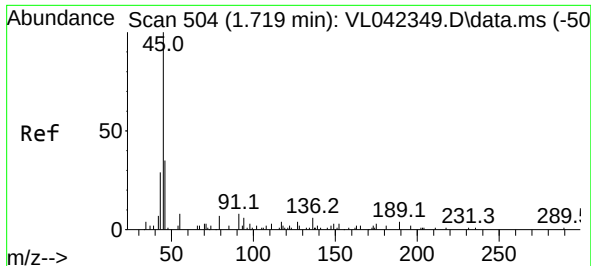
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025



#9
Propene
Concen: 0.245 ppbv
RT: 1.622 min Scan# 474
Delta R.T. 0.139 min
Lab File: VL042386.D
Acq: 18 Apr 2025 12:09

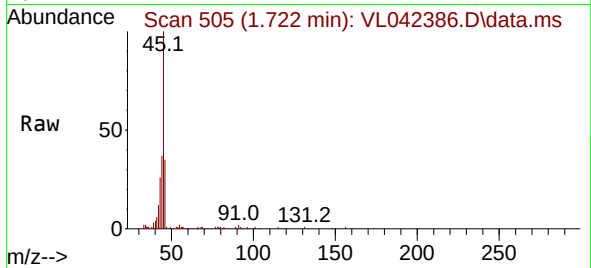
Tgt Ion: 41 Resp: 2578
Ion Ratio Lower Upper
41 100
42 71.3 56.2 84.4





#13
Ethanol
Concen: 6.730 ppbv
RT: 1.722 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL042386.D
Acq: 18 Apr 2025 12:09

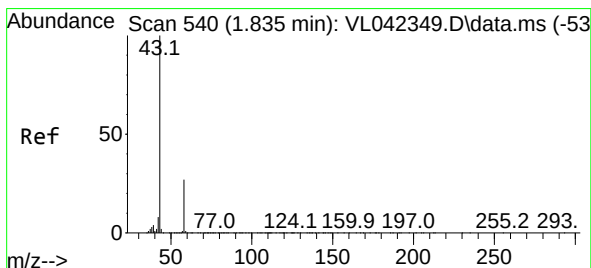
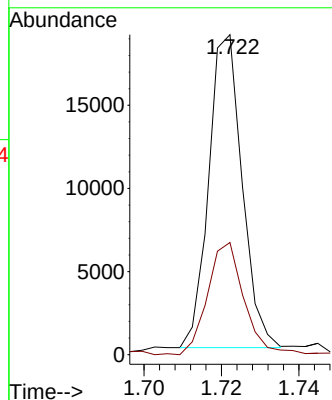
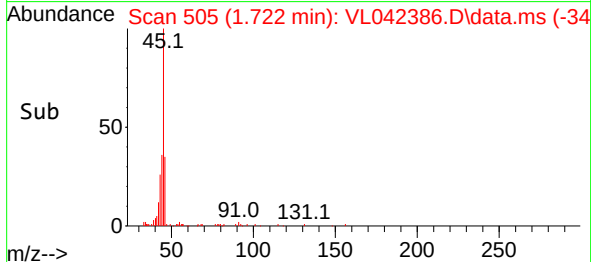
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL2



Tgt Ion: 45 Resp: 11275
Ion Ratio Lower Upper
45 100
46 39.6 21.9 87.7

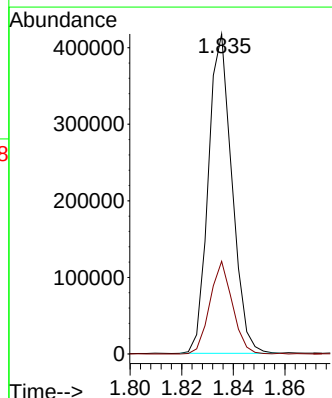
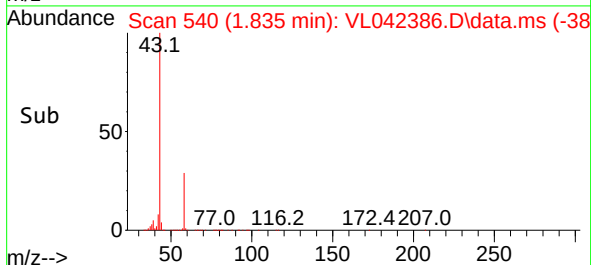
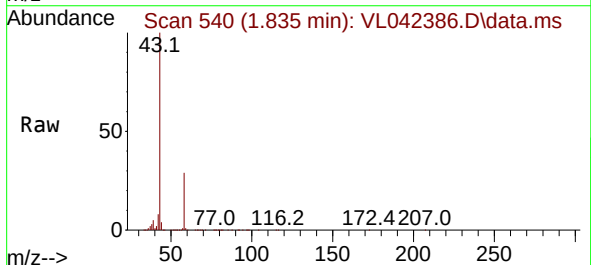
Manual Integrations
APPROVED

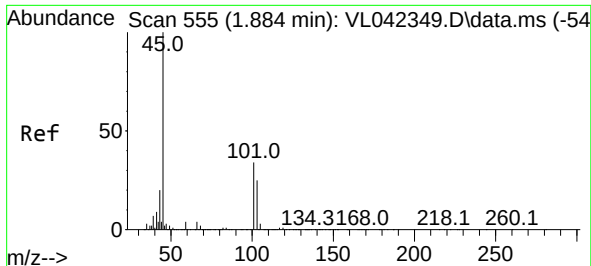
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025



#15
Acetone
Concen: 11.764 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042386.D
Acq: 18 Apr 2025 12:09

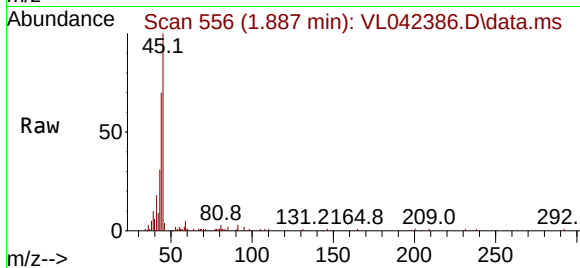
Tgt Ion: 43 Resp: 264945
Ion Ratio Lower Upper
43 100
58 27.9 22.4 33.6





#19
Isopropyl Alcohol
Concen: 0.740 ppbv
RT: 1.887 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042386.D
Acq: 18 Apr 2025 12:09

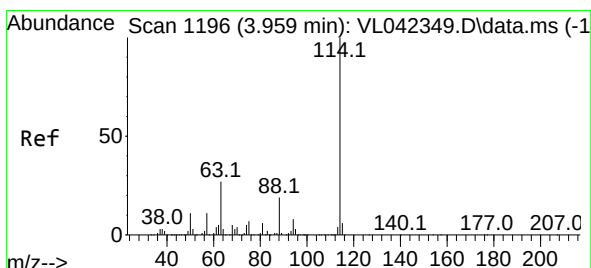
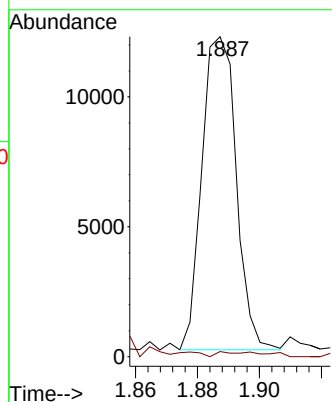
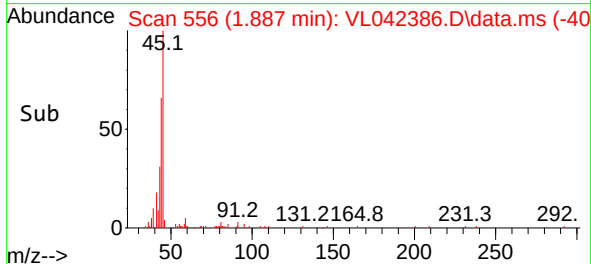
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL2



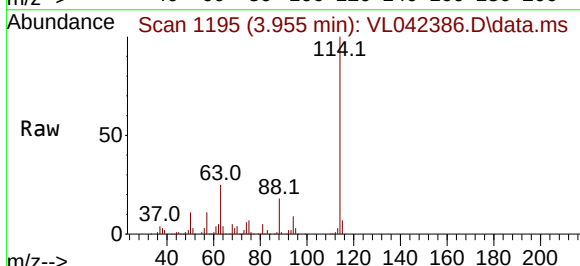
Tgt Ion: 45 Resp: 926
Ion Ratio Lower Upper
45 100
58 797.3 34.5 51.7

Manual Integrations
APPROVED

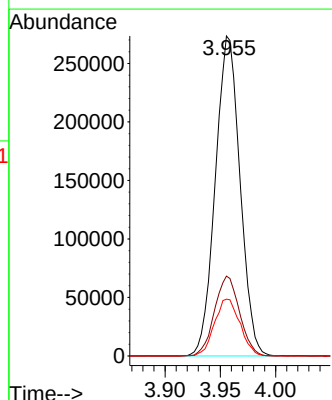
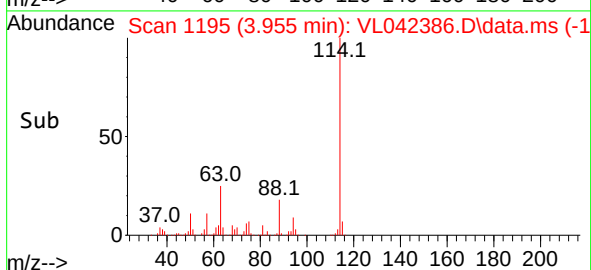
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

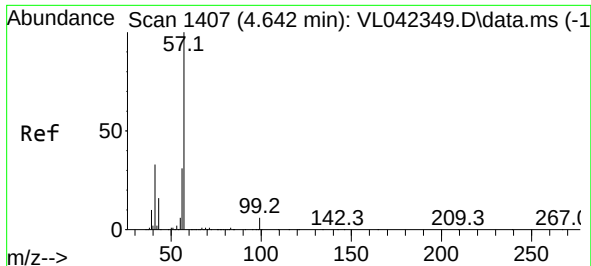


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. -0.003 min
Lab File: VL042386.D
Acq: 18 Apr 2025 12:09



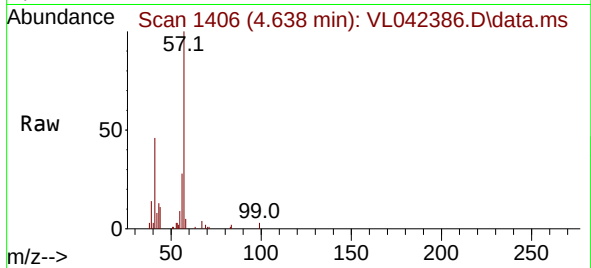
Tgt Ion:114 Resp: 424572
Ion Ratio Lower Upper
114 100
63 25.4 21.8 32.6
88 18.4 15.5 23.3





#44
 2,2,4-Trimethylpentane
 Concen: 0.180 ppbv
 RT: 4.638 min Scan# 1406
 Delta R.T. -0.003 min
 Lab File: VL042386.D
 Acq: 18 Apr 2025 12:09

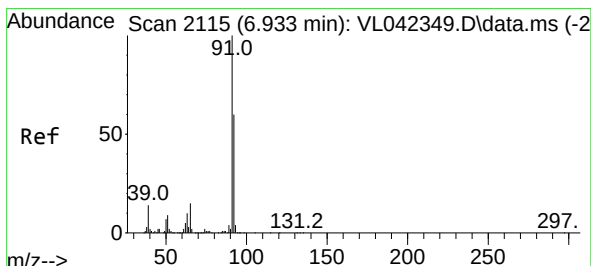
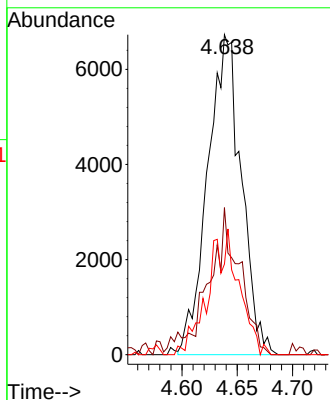
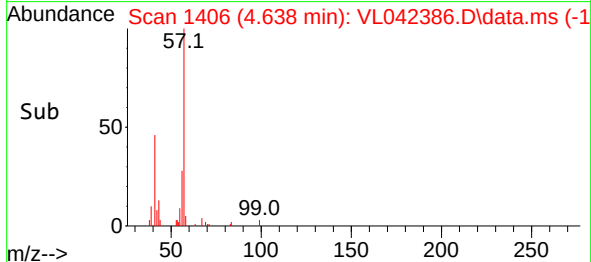
Instrument : MSVOA_L
 ClientSampleId :
 IA-B2-4-03312025DL2



Tgt Ion: 57 Resp: 14250
 Ion Ratio Lower Upper
 57 100
 41 43.5 27.2 40.8
 56 36.0 25.7 38.5

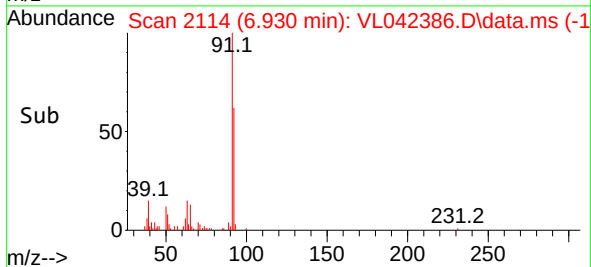
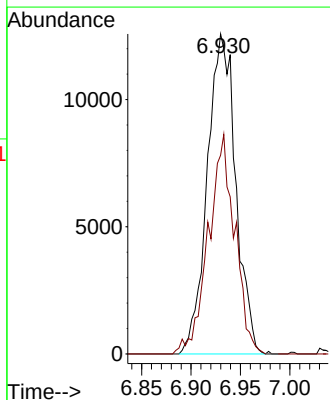
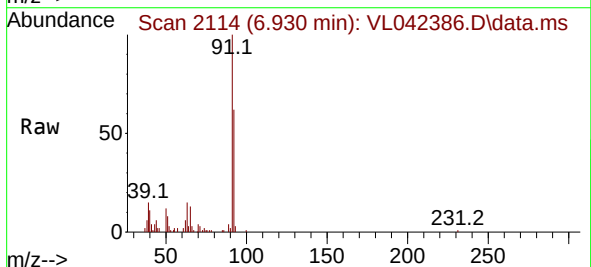
Manual Integrations
 APPROVED

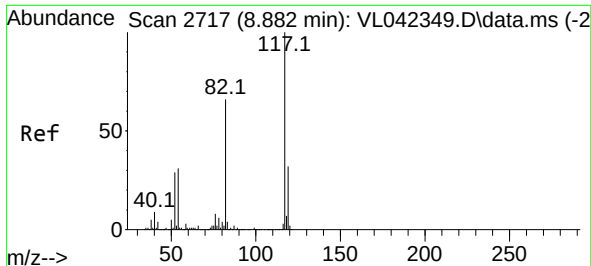
Reviewed By :Semsettin Yesilyurt 04/21/2025
 Supervised By :Mahesh Dadoda 04/21/2025



#53
 Toluene
 Concen: 0.458 ppbv m
 RT: 6.930 min Scan# 2114
 Delta R.T. -0.003 min
 Lab File: VL042386.D
 Acq: 18 Apr 2025 12:09

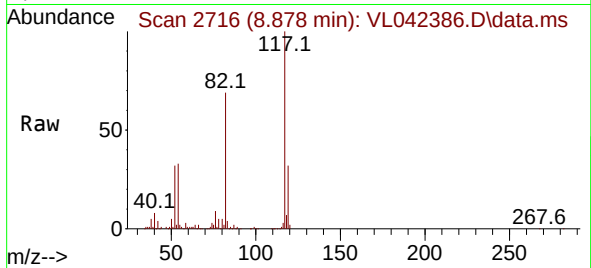
Tgt Ion: 91 Resp: 25162
 Ion Ratio Lower Upper
 91 100
 92 63.7 48.2 72.4





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2117
Delta R.T. -0.003 min
Lab File: VL042386.D
Acq: 18 Apr 2025 12:09

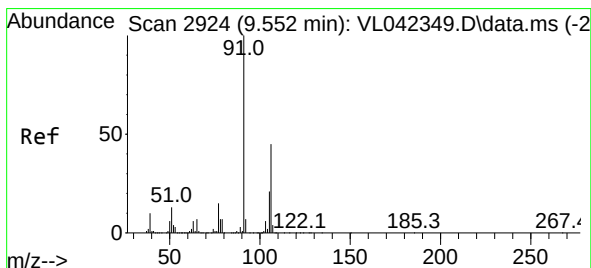
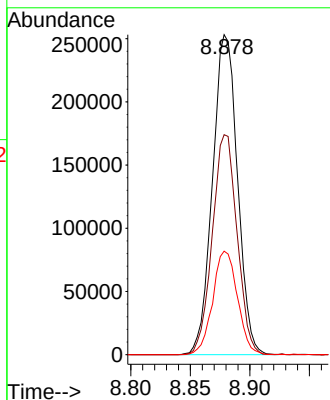
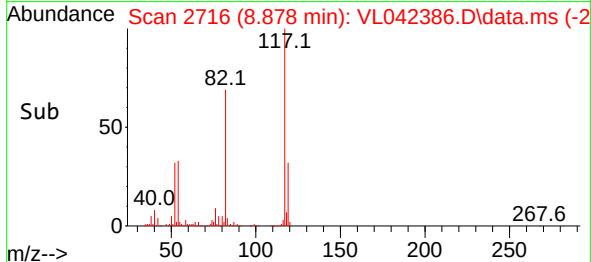
Instrument : MSVOA_L
ClientSampleId : IA-B2-4-03312025DL2



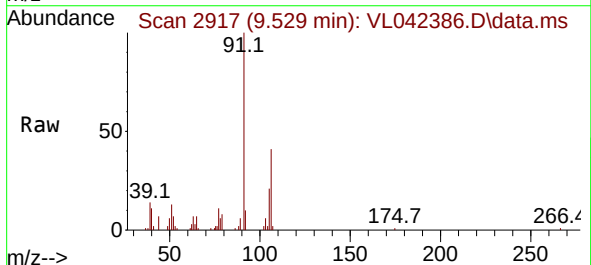
Tgt Ion: 117 Resp: 368674
Ion Ratio Lower Upper
117 100
82 68.2 57.8 86.6
119 32.1 25.2 37.8

Manual Integrations
APPROVED

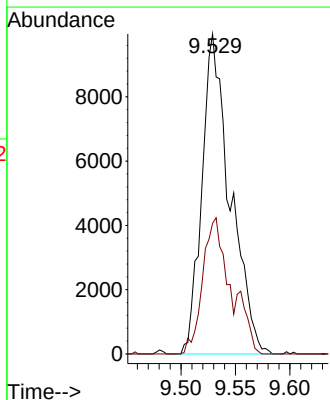
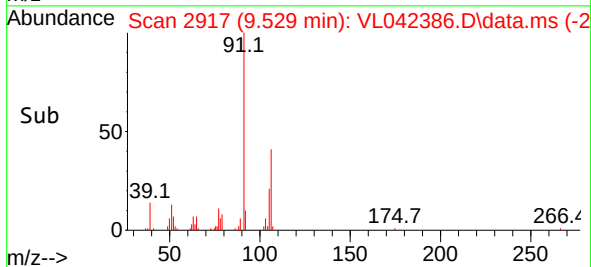
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

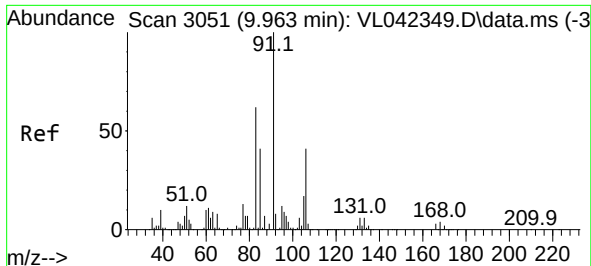


#59
m/p-Xylene
Concen: 0.305 ppbv m
RT: 9.529 min Scan# 2917
Delta R.T. -0.023 min
Lab File: VL042386.D
Acq: 18 Apr 2025 12:09



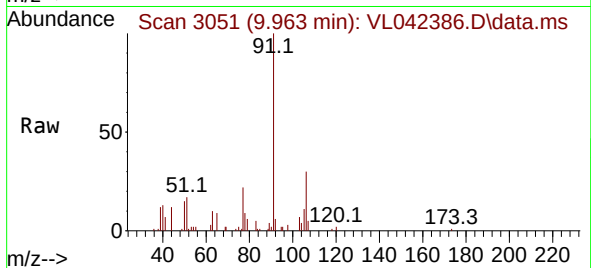
Tgt Ion: 91 Resp: 17952
Ion Ratio Lower Upper
91 100
106 0.0 35.4 53.2#





#60
o-Xylene
Concen: 0.115 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. 0.000 min
Lab File: VL042386.D
Acq: 18 Apr 2025 12:09

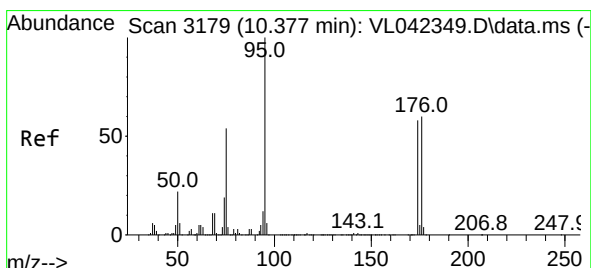
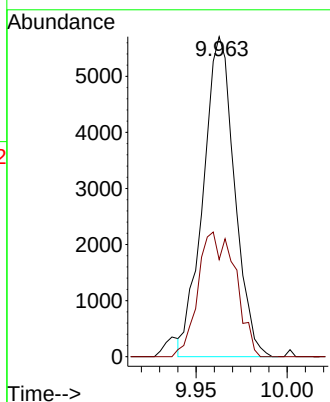
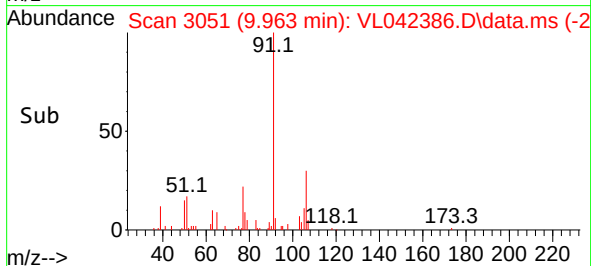
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL2



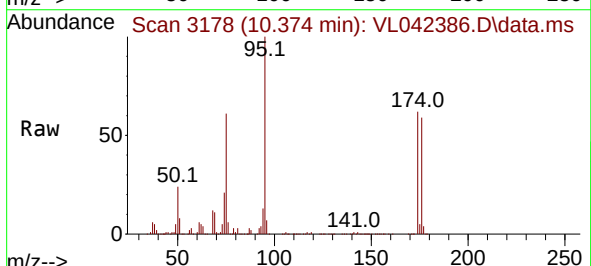
Tgt Ion: 91 Resp: 6838
Ion Ratio Lower Upper
91 100
106 46.2 21.1 63.4

Manual Integrations
APPROVED

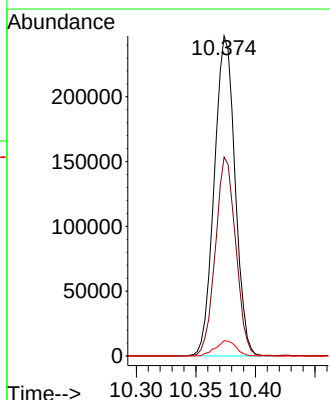
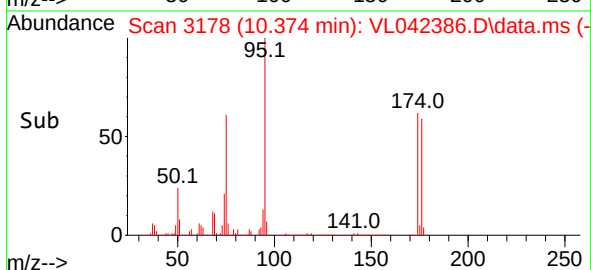
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.859 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. -0.003 min
Lab File: VL042386.D
Acq: 18 Apr 2025 12:09



Tgt Ion: 95 Resp: 298684
Ion Ratio Lower Upper
95 100
174 61.0 48.5 72.7
175 4.7 3.7 5.5





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)		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)		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)		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)		n-propylbenzene			0.645	0.605	0.610	0.542	0.564	0.593	6.81
65)		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)		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)		p-Isopropyltol...			2.834	2.818	2.811	2.304	2.338	2.621	10.46
70)		n-Butylbenzene			2.985	2.926	2.953	2.370	2.414	2.730	11.33
71)		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

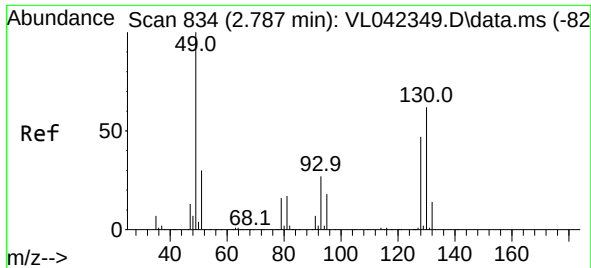
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Fri Apr 18 01:24:29 2025

Response via : Initial Calibration

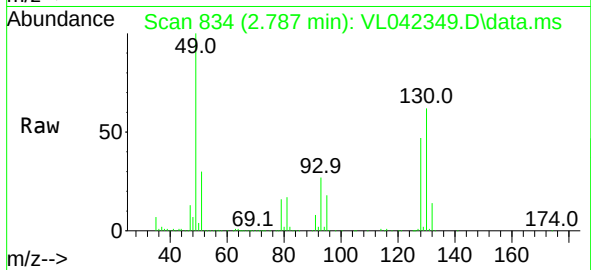
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.600	75	208811	9.377	ppbv	100
47) 1,1,2-Trichloroethane	6.580	97	137898	9.181	ppbv	100
48) Dibromochloromethane	7.386	129	248954	9.388	ppbv	100
49) Bromoform	9.480	173	225706	9.734	ppbv	100
50) 4-Methyl-2-Pentanone	5.752	43	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

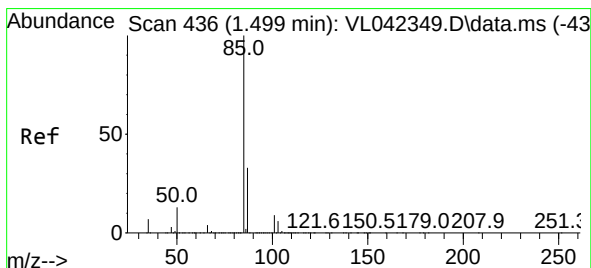
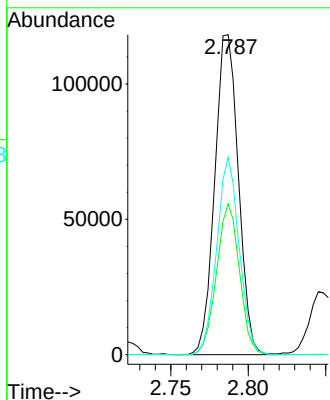
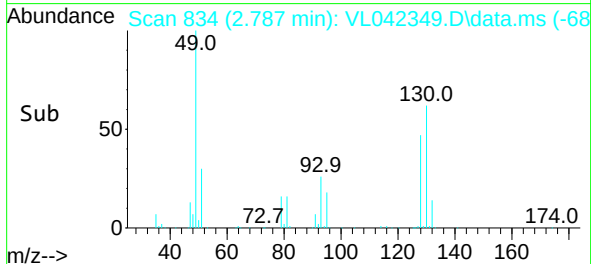
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



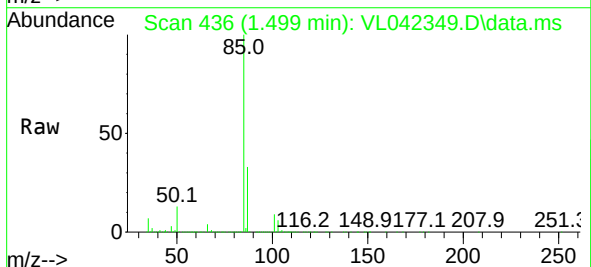
Tgt Ion: 49 Resp: 125458
Ion Ratio Lower Upper
49 100
128 45.6 22.8 68.4
130 58.7 29.3 88.0

Manual Integrations
APPROVED

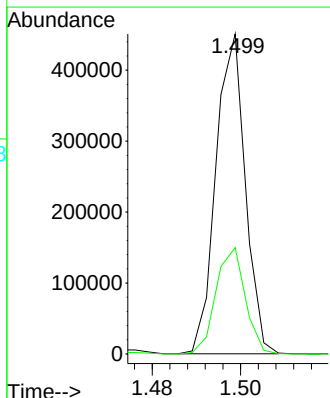
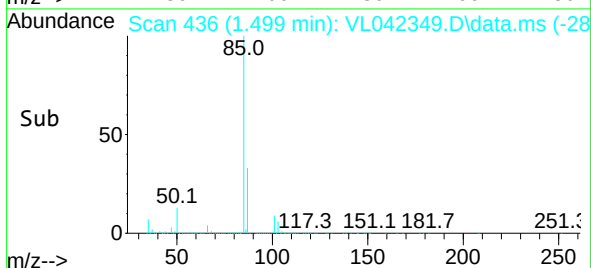
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

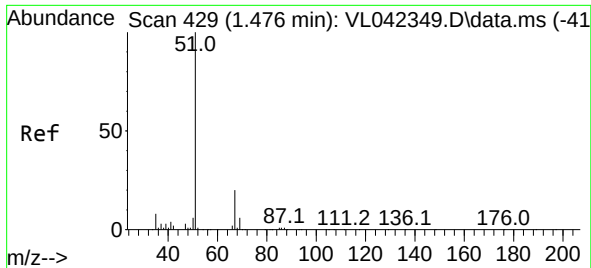


#2
Dichlorodifluoromethane
Concen: 9.382 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



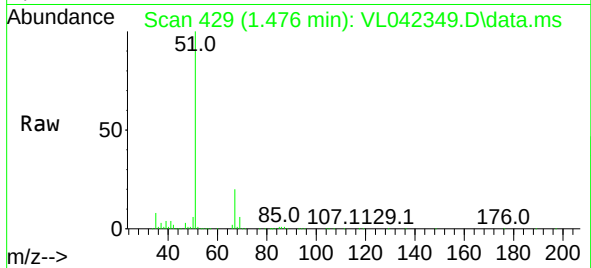
Tgt Ion: 85 Resp: 207962
Ion Ratio Lower Upper
85 100
87 33.2 26.6 39.8





#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

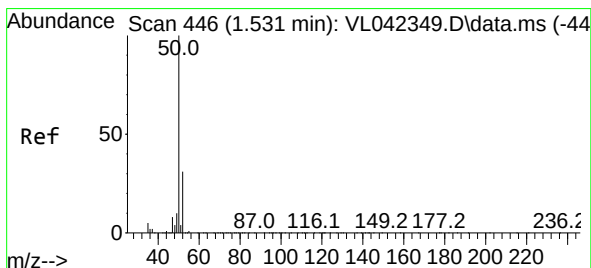
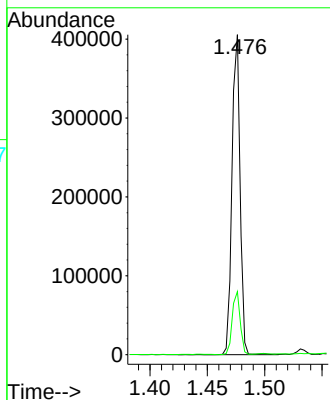
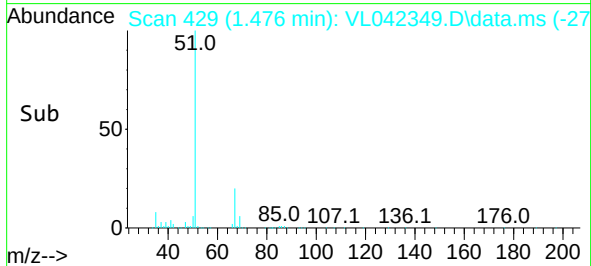
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



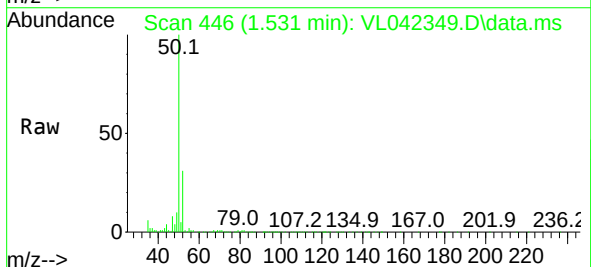
Tgt Ion: 51 Resp: 197334
Ion Ratio Lower Upper
51 100
67 20.3 16.2 24.4

Manual Integrations
APPROVED

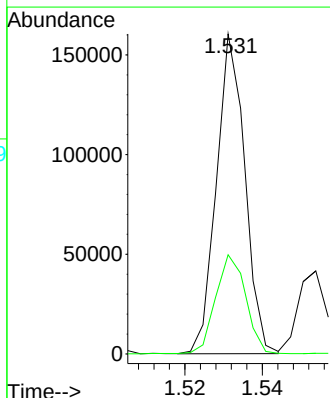
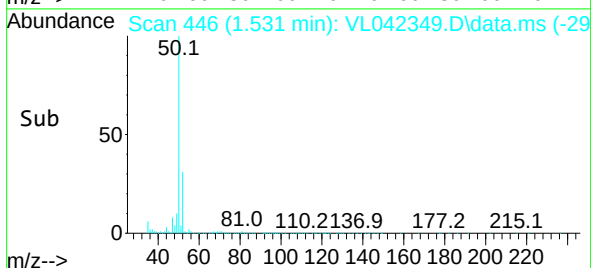
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

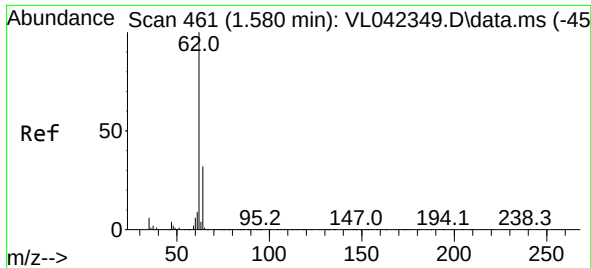


#4
Chloromethane
Concen: 9.330 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



Tgt Ion: 50 Resp: 81843
Ion Ratio Lower Upper
50 100
52 30.9 24.7 37.1





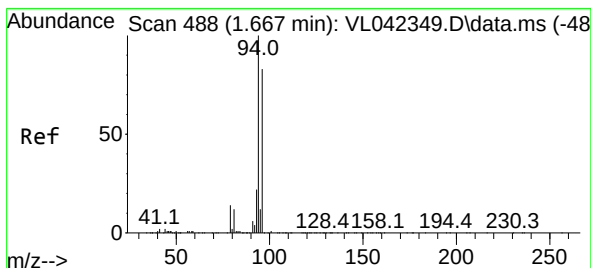
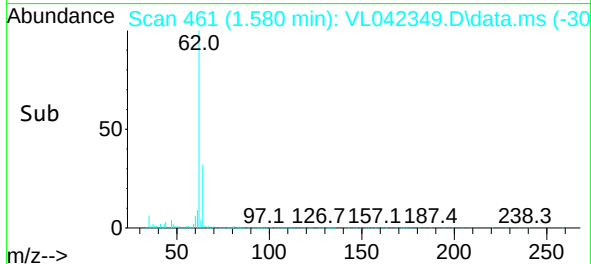
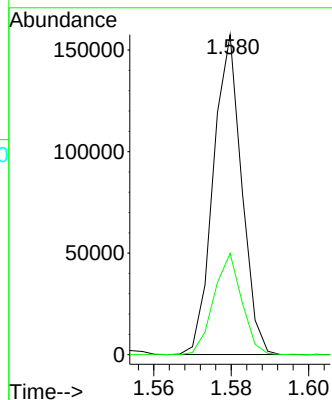
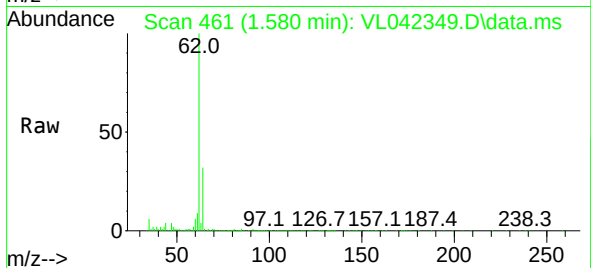
#5
 Vinyl Chloride
 Concen: 8.385 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tgt Ion: 62 Resp: 80068
 Ion Ratio Lower Upper
 62 100
 64 31.7 25.4 38.0

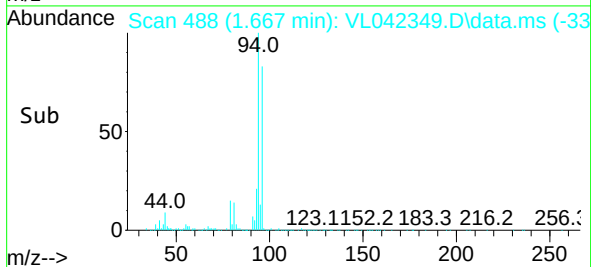
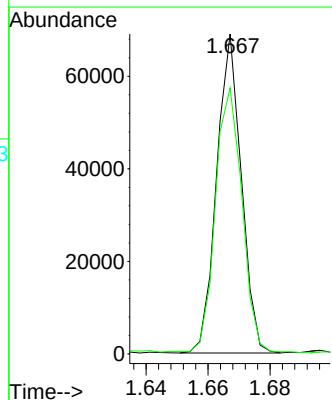
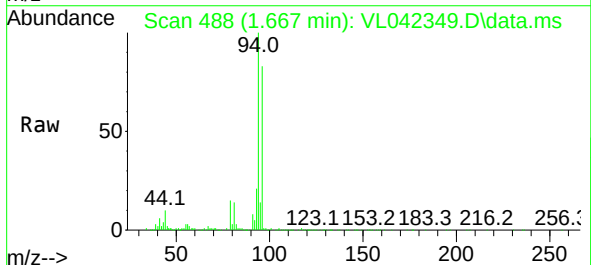
Manual Integrations
 APPROVED

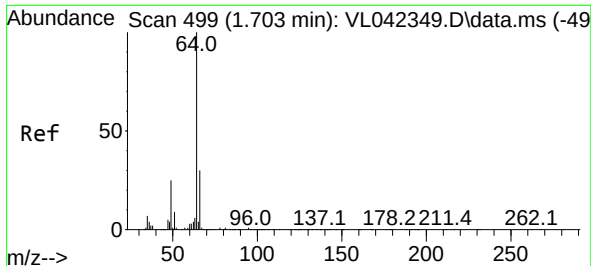
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#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

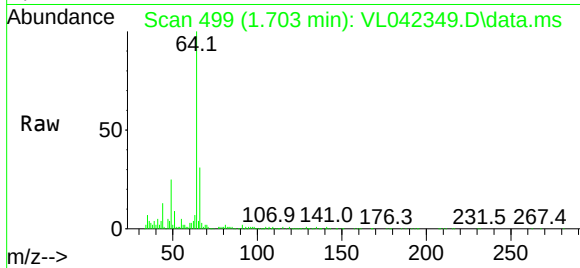
Tgt Ion: 94 Resp: 38128
 Ion Ratio Lower Upper
 94 100
 96 82.7 66.2 99.2





#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

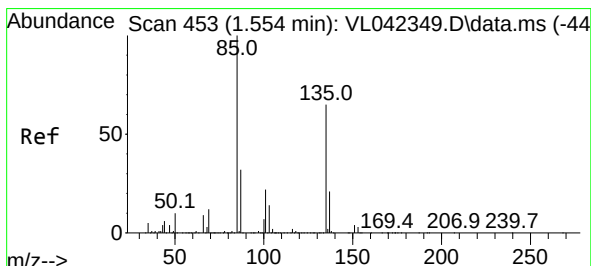
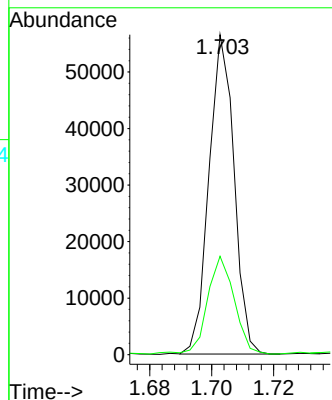
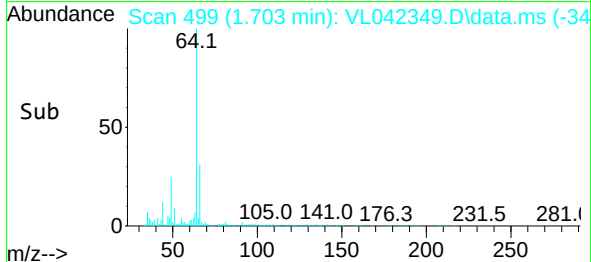
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



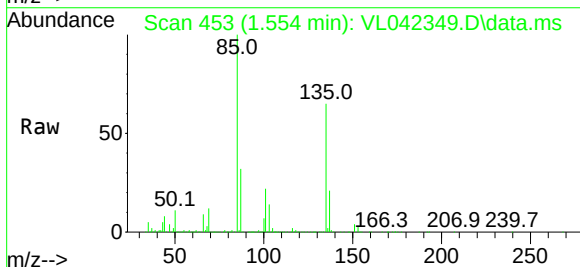
Tgt Ion: 64 Resp: 3170
Ion Ratio Lower Upper
64 100
66 30.8 24.6 37.0

Manual Integrations
APPROVED

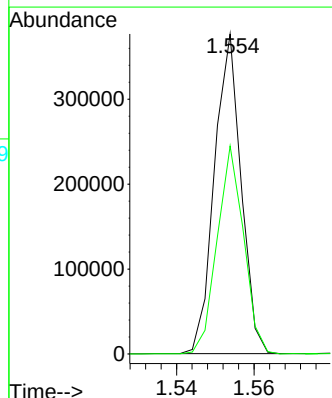
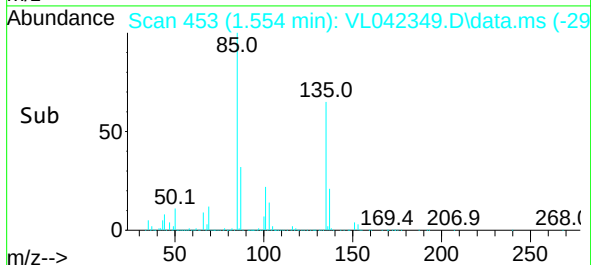
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

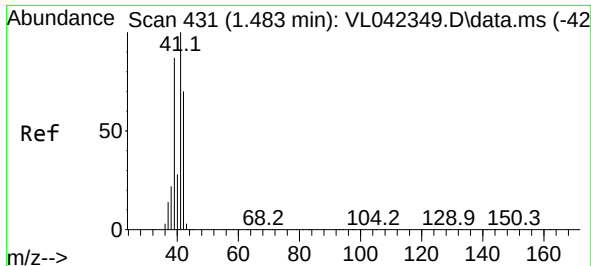


#8
Dichlorotetrafluoroethane
Concen: 9.442 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



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

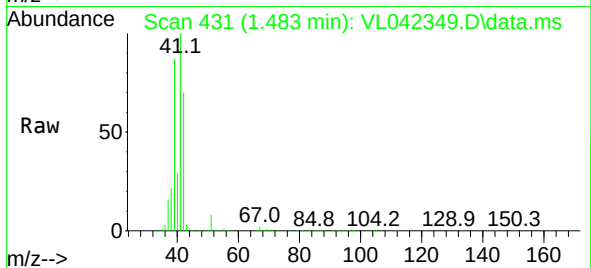
Acq: 17 Apr 2025 09:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010



Tgt Ion: 41 Resp: 86530

Ion Ratio Lower Upper

41 100

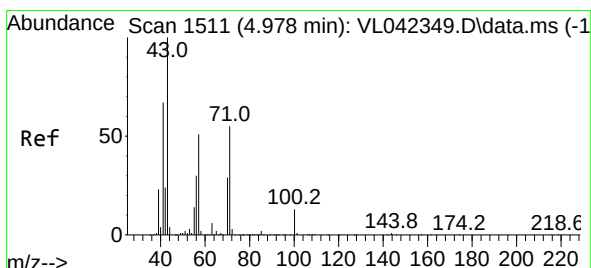
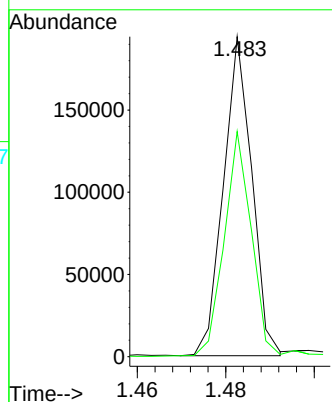
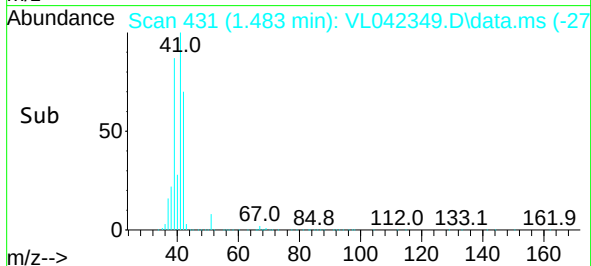
42 70.3 56.2 84.4

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

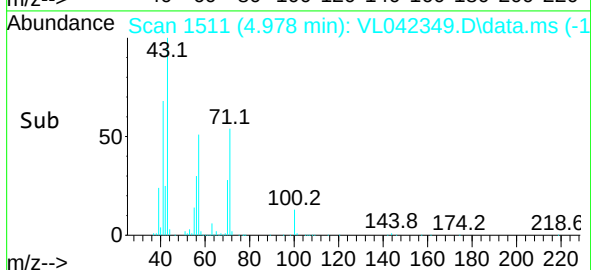
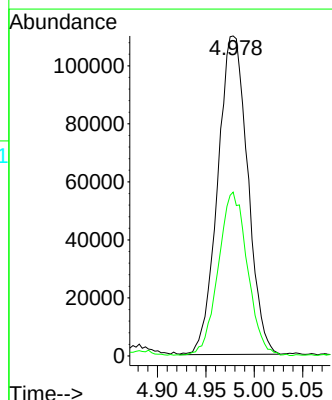
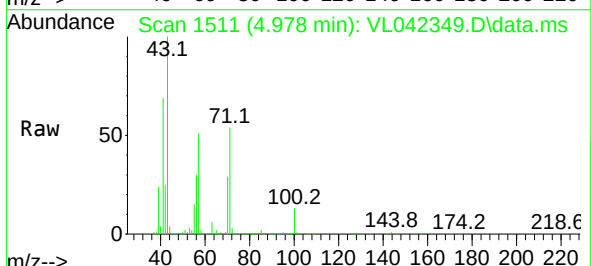
Acq: 17 Apr 2025 09:44

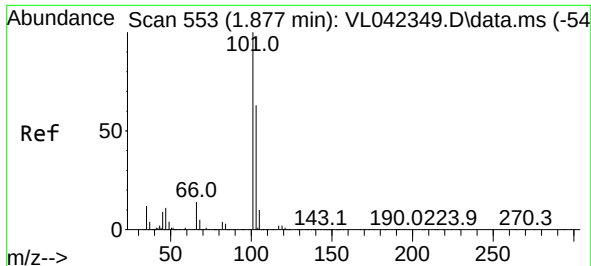
Tgt Ion: 43 Resp: 236341

Ion Ratio Lower Upper

43 100

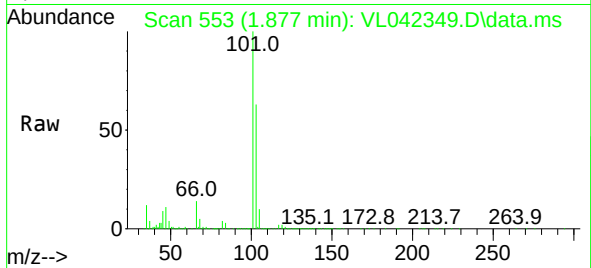
57 49.9 39.9 59.9





#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

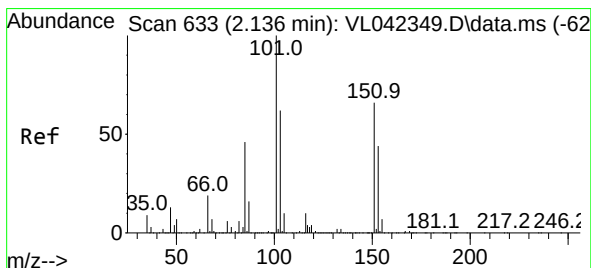
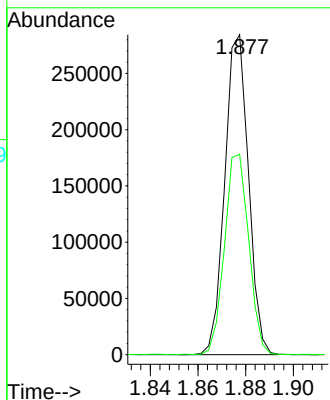
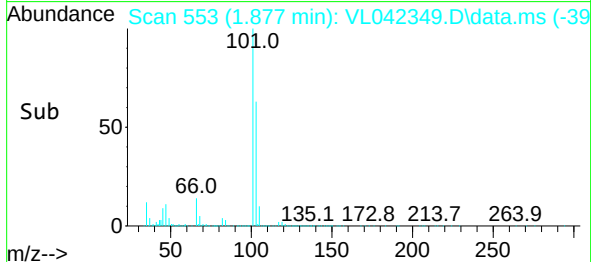
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



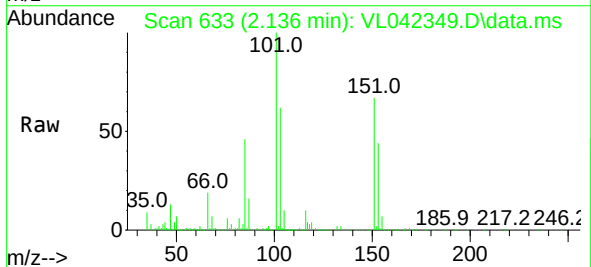
Tgt Ion:101 Resp: 196590
 Ion Ratio Lower Upper
 101 100
 103 62.6 50.1 75.1

Manual Integrations
 APPROVED

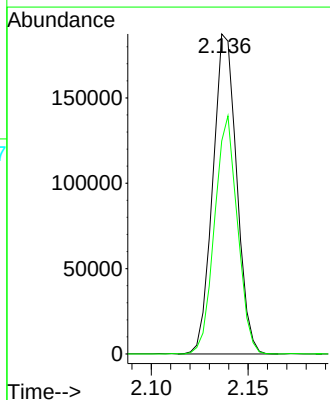
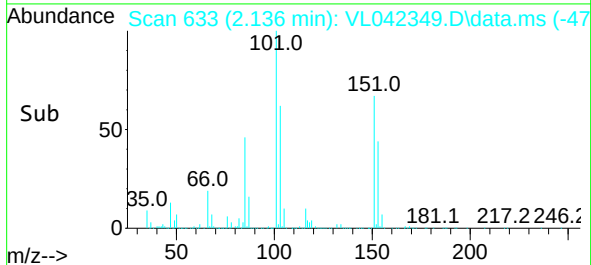
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

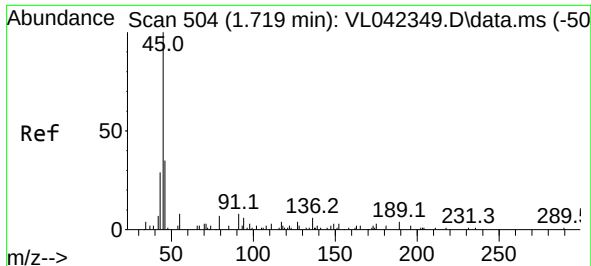


#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.323 ppbv
 RT: 2.136 min Scan# 633
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44



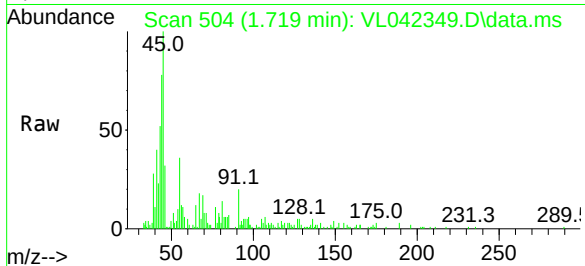
Tgt Ion:101 Resp: 160682
 Ion Ratio Lower Upper
 101 100
 151 71.3 57.0 85.6





#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

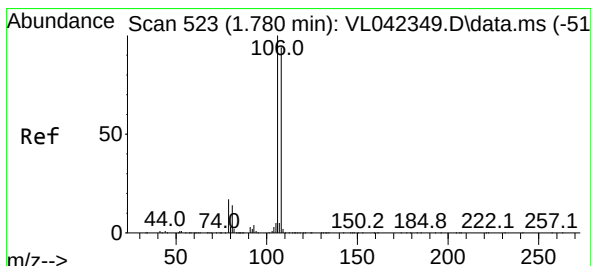
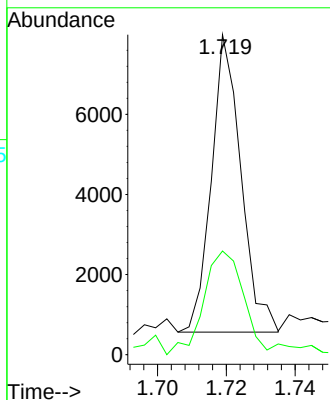
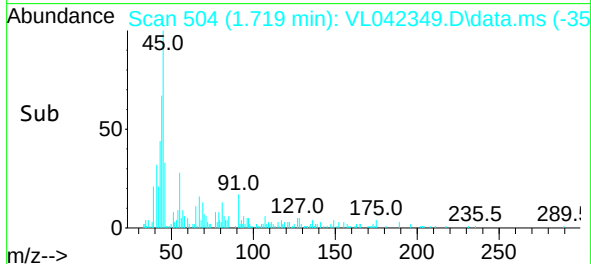
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



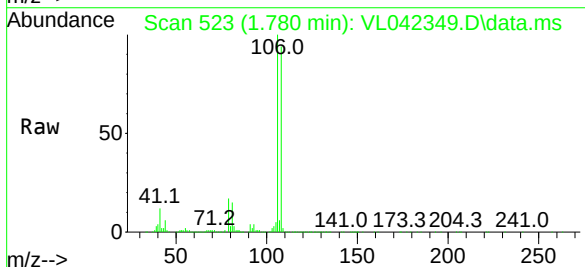
Tgt Ion: 45 Resp: 4439
Ion Ratio Lower Upper
45 100
46 54.8 21.9 87.7

Manual Integrations
APPROVED

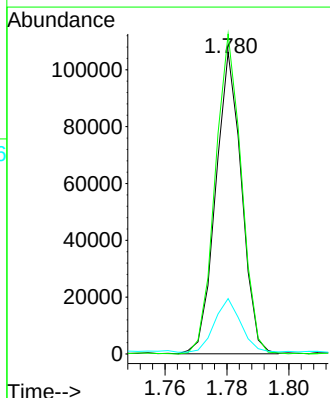
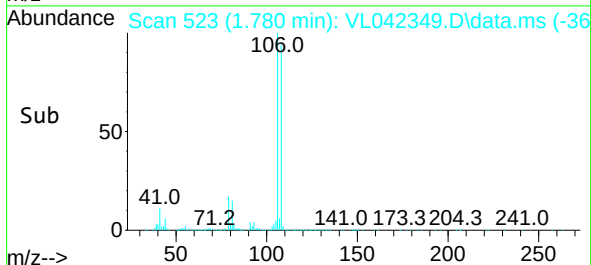
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

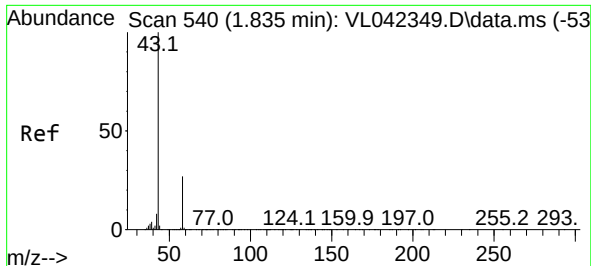


#14
Bromoethene
Concen: 9.466 ppbv
RT: 1.780 min Scan# 523
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



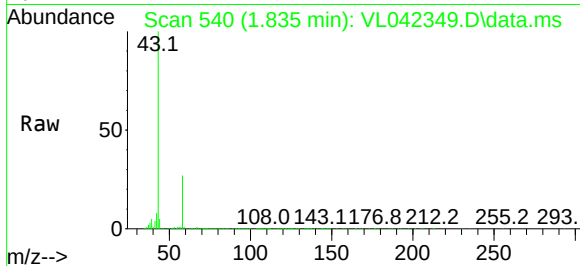
Tgt Ion:108 Resp: 61493
Ion Ratio Lower Upper
108 100
106 107.4 85.9 128.9
79 17.4 13.9 20.9





#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

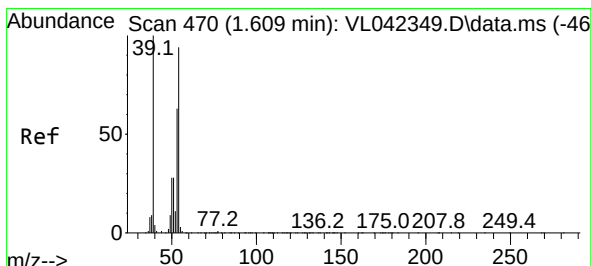
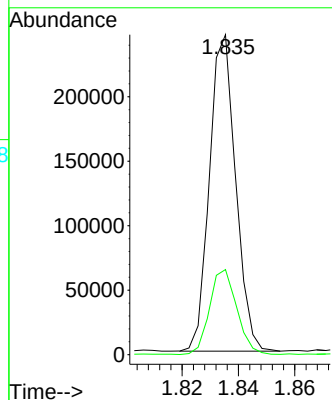
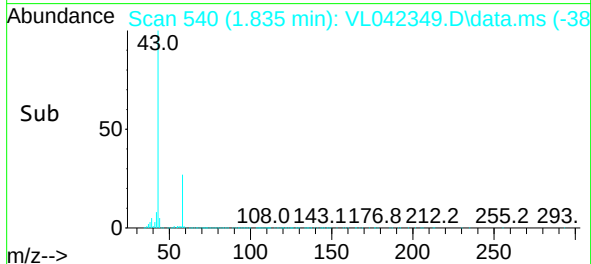
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



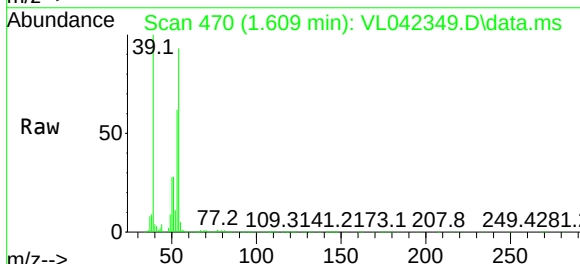
Tgt Ion: 43 Resp: 158490
Ion Ratio Lower Upper
43 100
58 28.0 22.4 33.6

Manual Integrations
APPROVED

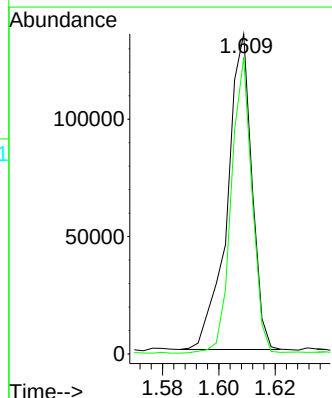
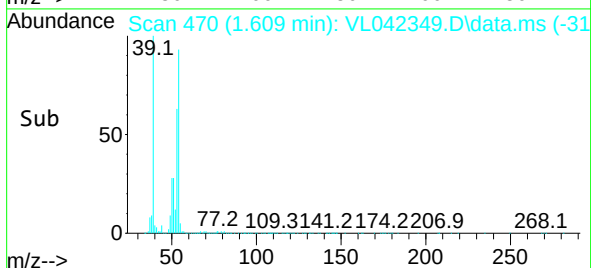
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

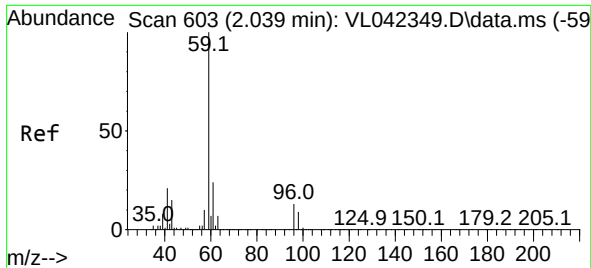


#16
1,3-Butadiene
Concen: 8.470 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



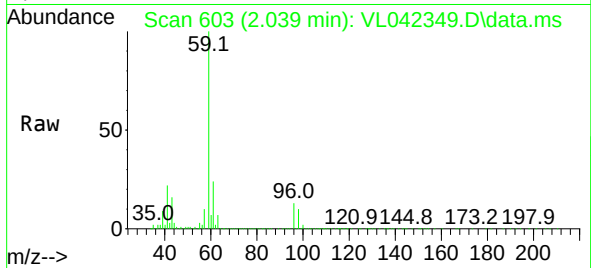
Tgt Ion: 39 Resp: 81688
Ion Ratio Lower Upper
39 100
54 81.1 64.9 97.3





#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

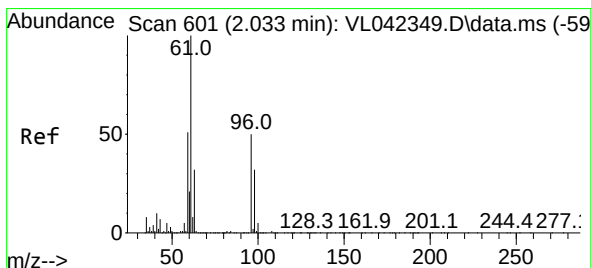
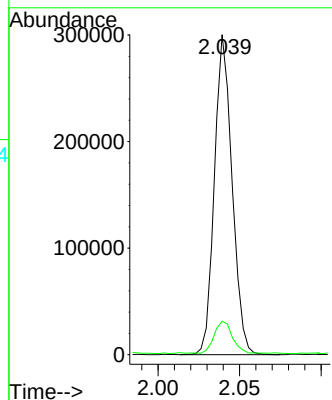
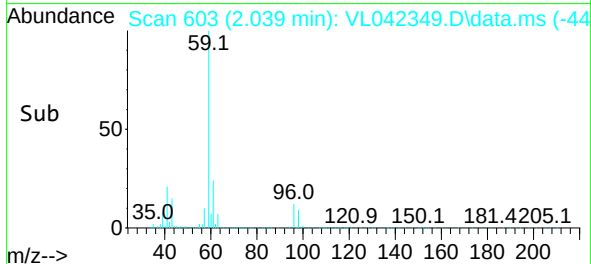
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



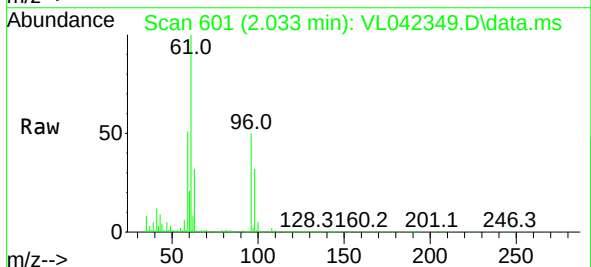
Tgt Ion: 59 Resp: 226280
Ion Ratio Lower Upper
59 100
57 10.9 8.7 13.1

Manual Integrations
APPROVED

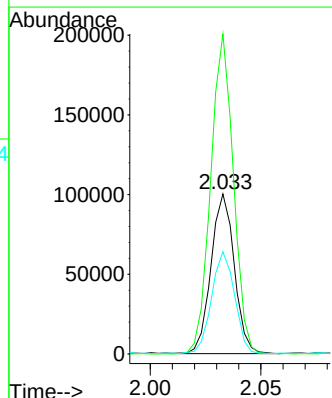
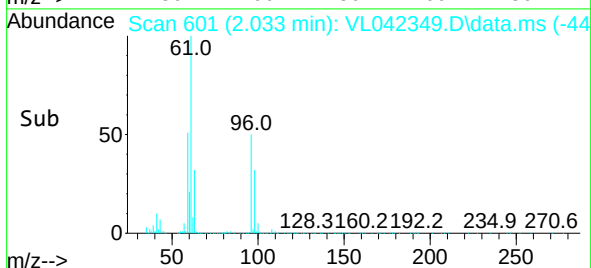
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

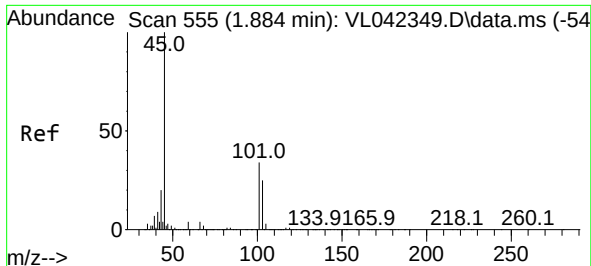


#18
1,1-Dichloroethene
Concen: 8.833 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



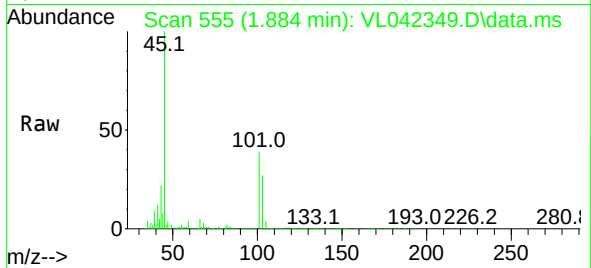
Tgt Ion: 96 Resp: 73186
Ion Ratio Lower Upper
96 100
61 200.2 160.2 240.2
98 63.7 51.0 76.4





#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

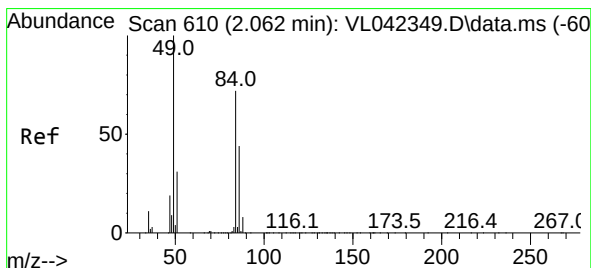
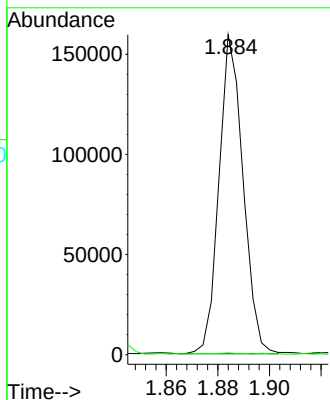
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



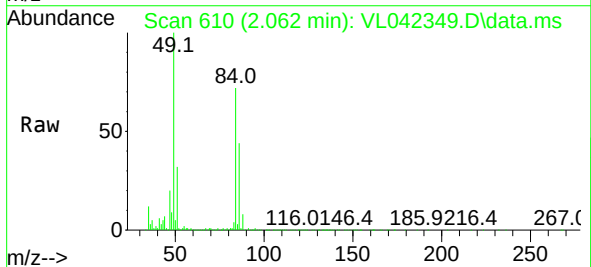
Tgt Ion: 45 Resp: 103029
Ion Ratio Lower Upper
45 100
58 43.1 34.5 51.7

Manual Integrations
APPROVED

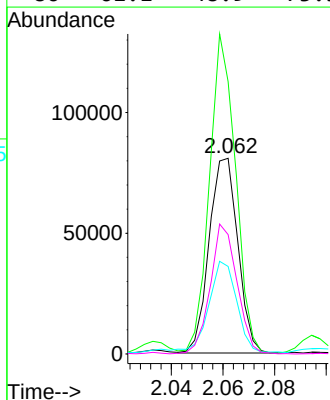
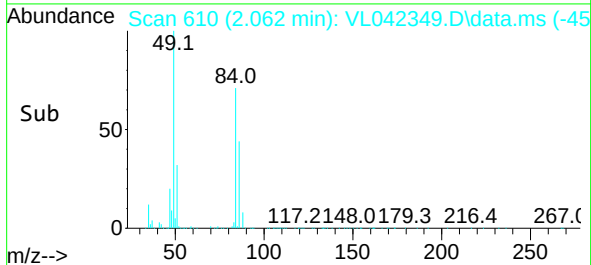
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

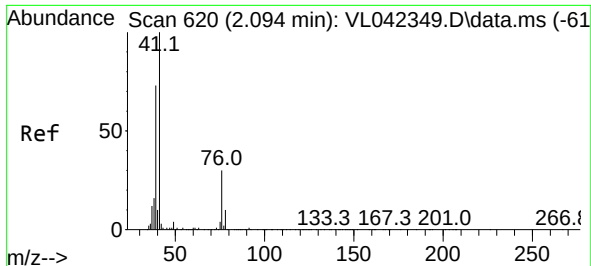


#20
Methylene Chloride
Concen: 7.760 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



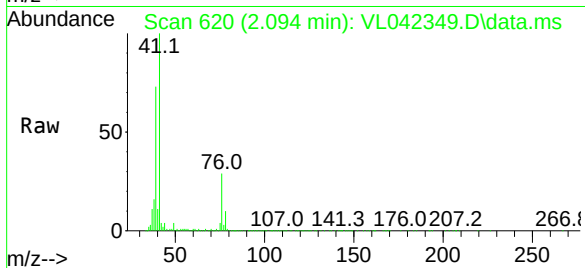
Tgt Ion: 84 Resp: 62414
Ion Ratio Lower Upper
84 100
49 139.5 111.6 167.4
51 43.9 35.1 52.7
86 61.1 48.9 73.3





#21
 Allyl Chloride
 Concen: 8.611 ppbv
 RT: 2.094 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44

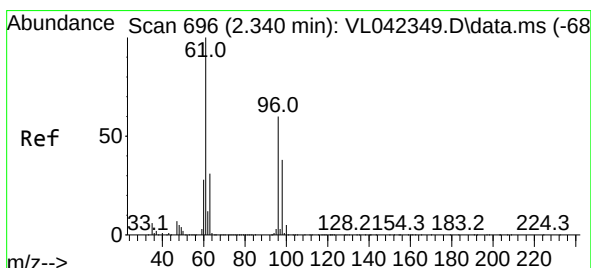
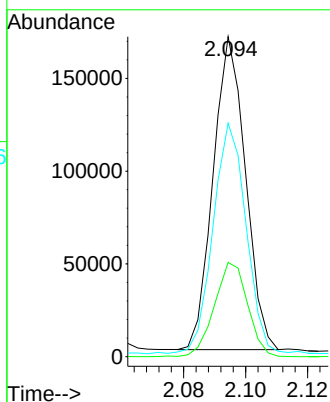
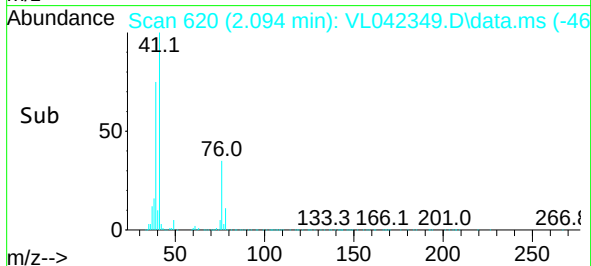
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



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

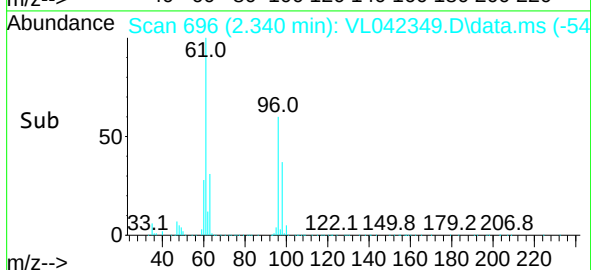
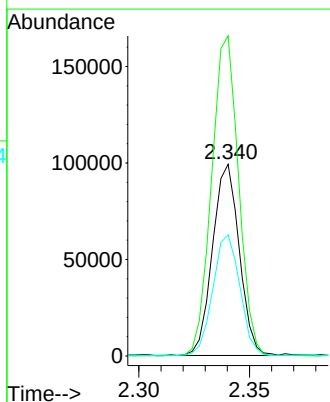
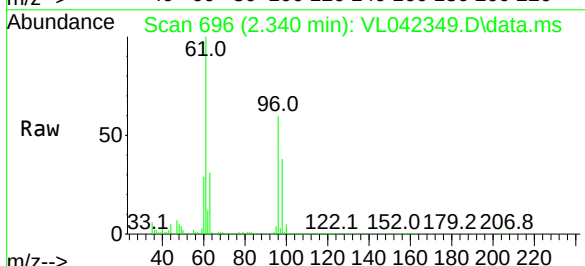
Manual Integrations
 APPROVED

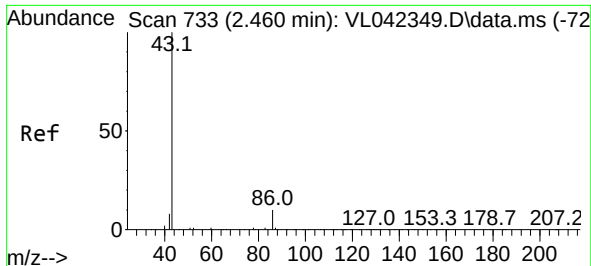
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#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

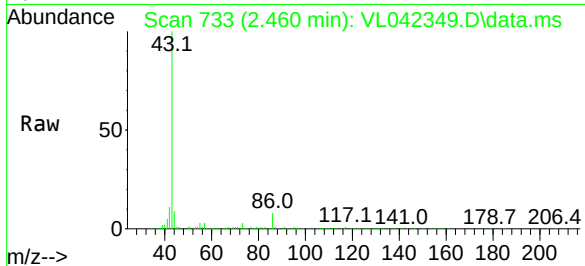
Tgt Ion: 96 Resp: 83278
 Ion Ratio Lower Upper
 96 100
 61 167.1 133.7 200.5
 98 62.9 50.3 75.5





#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

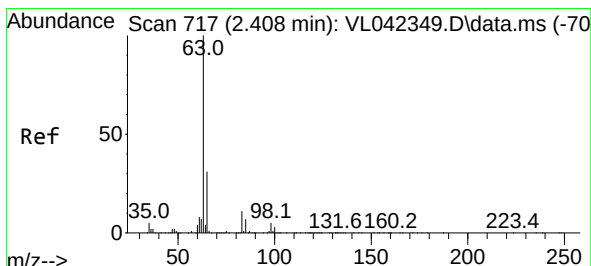
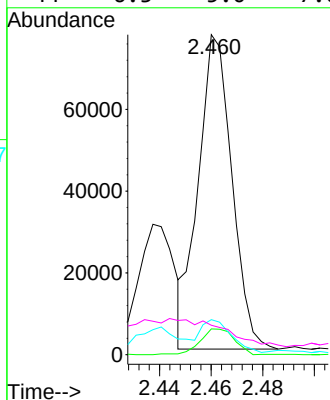
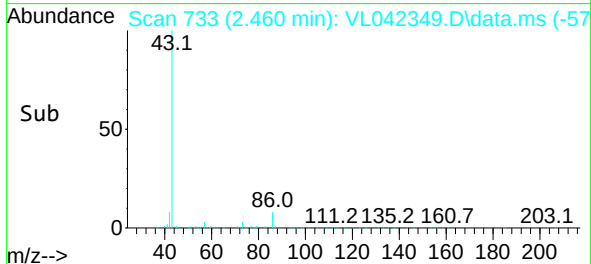
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010



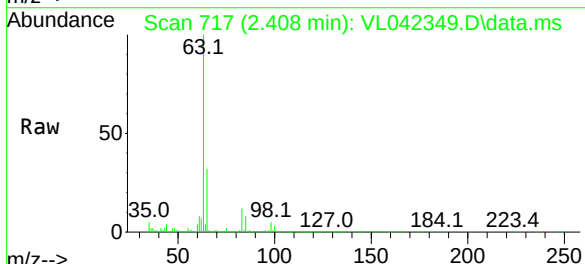
Tgt Ion: 43 Resp: 69649
 Ion Ratio Lower Upper
 43 100
 86 8.1 6.5 9.7
 42 9.8 7.8 11.8
 44 6.3 5.0 7.6

Manual Integrations
 APPROVED

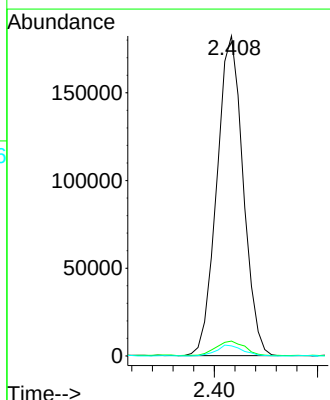
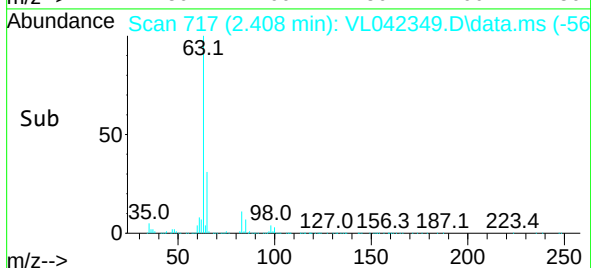
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

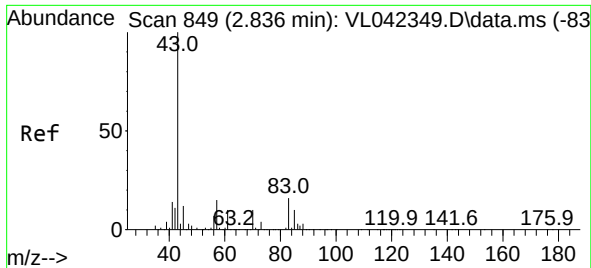


#24
 1,1-Dichloroethane
 Concen: 9.251 ppbv
 RT: 2.408 min Scan# 717
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44



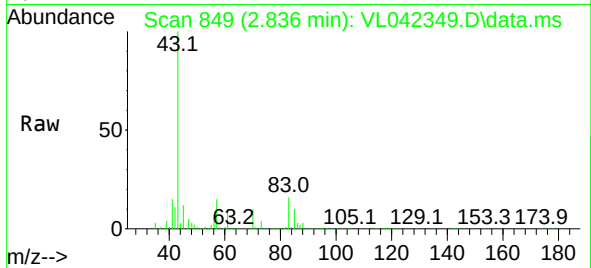
Tgt Ion: 63 Resp: 161102
 Ion Ratio Lower Upper
 63 100
 98 4.5 2.3 6.8
 100 3.2 1.6 4.8





#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

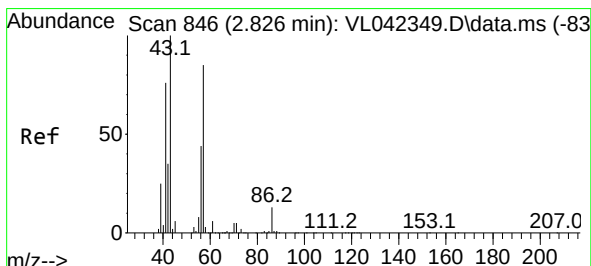
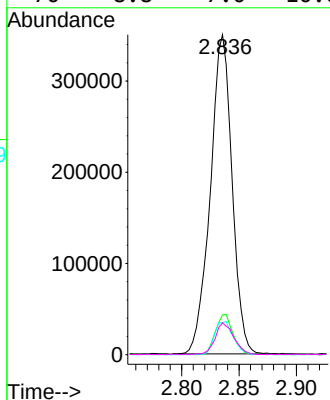
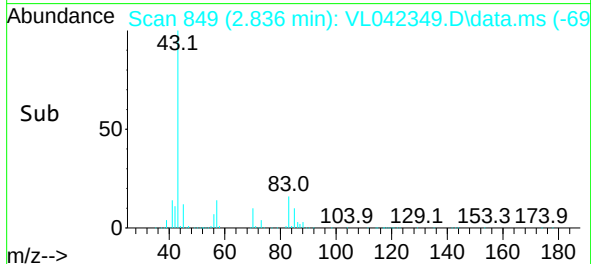
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



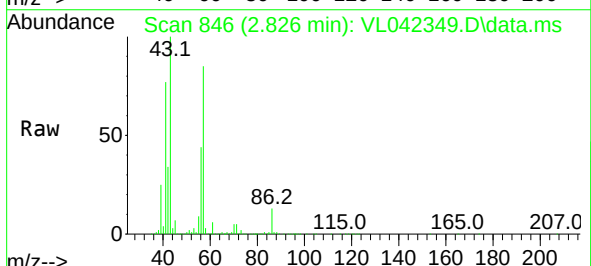
Tgt Ion: 43 Resp: 461315
Ion Ratio Lower Upper
43 100
45 10.4 8.3 12.5
61 9.1 7.3 10.9
70 8.8 7.0 10.6

Manual Integrations
APPROVED

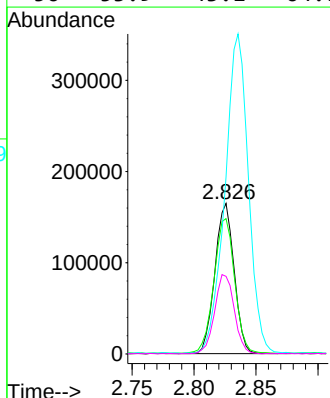
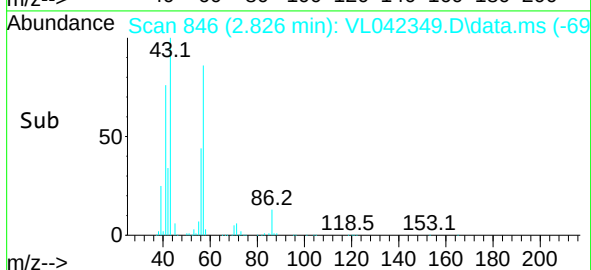
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

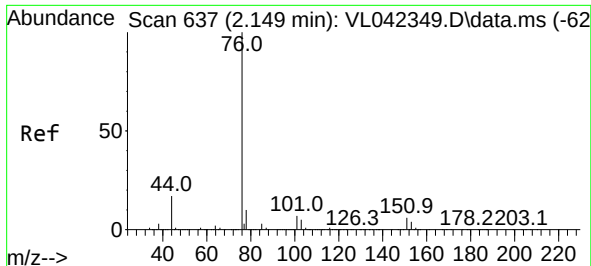


#26
Hexane
Concen: 8.720 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



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

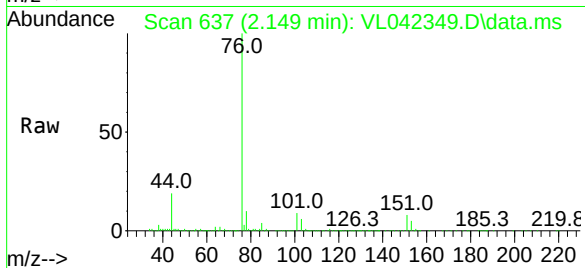
Acq: 17 Apr 2025 09:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010



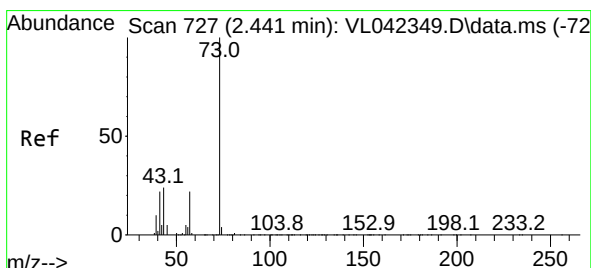
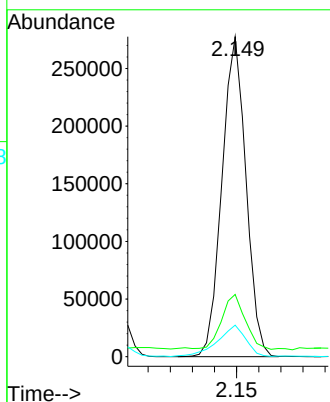
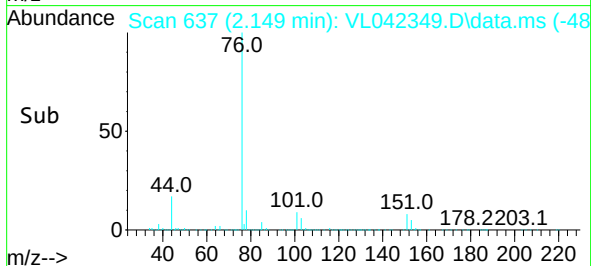
Tgt Ion: 76 Resp: 20929

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

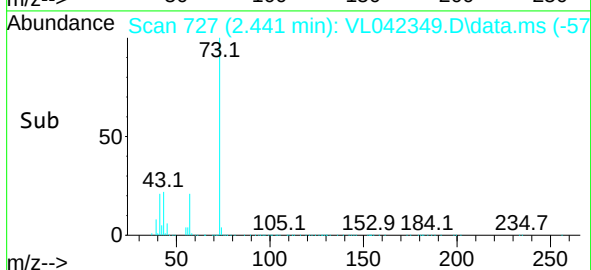
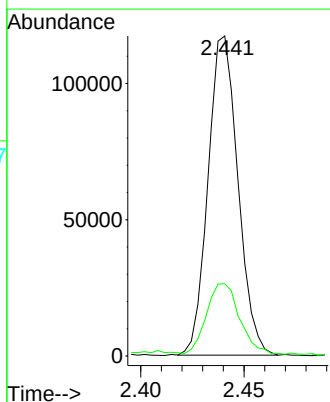
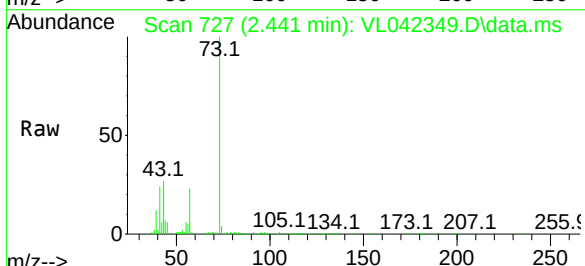
Delta R.T. 0.000 min

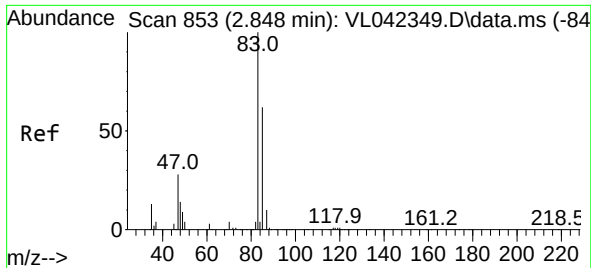
Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

Tgt Ion: 73 Resp: 117924

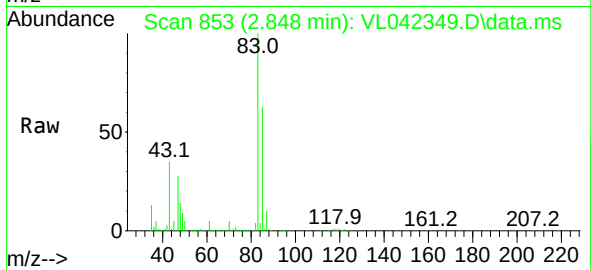
Ion	Ratio	Lower	Upper
73	100		
57	26.6	21.3	31.9





#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

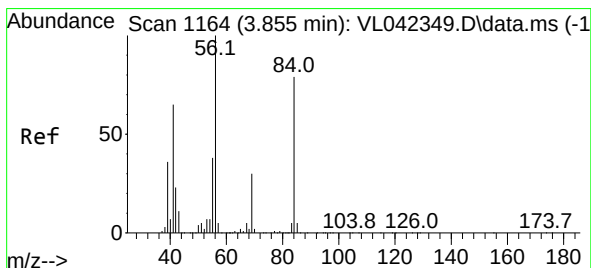
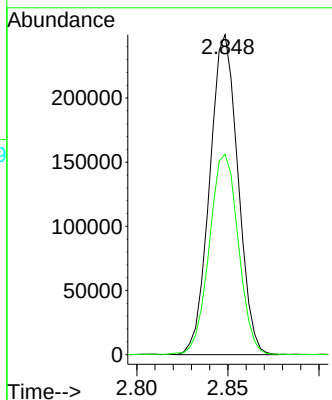
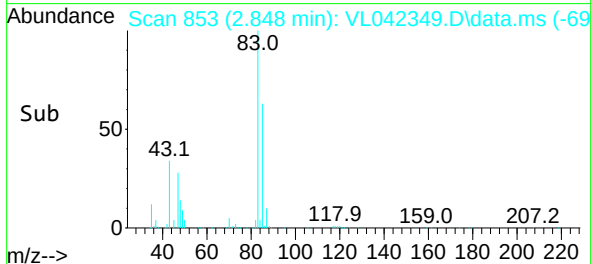
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



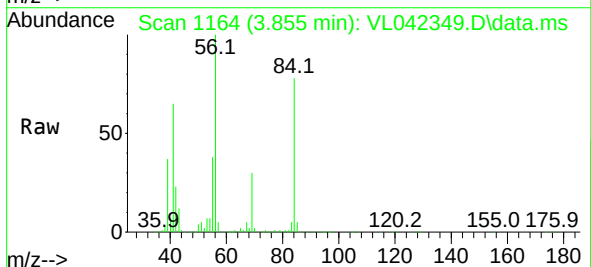
Tgt Ion: 83 Resp: 269088
Ion Ratio Lower Upper
83 100
85 62.5 50.0 75.0

Manual Integrations
APPROVED

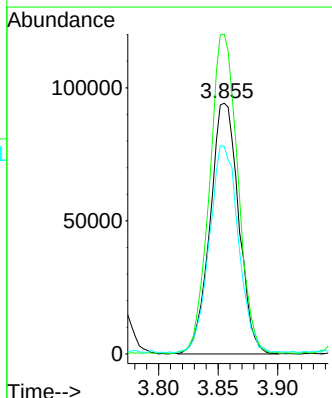
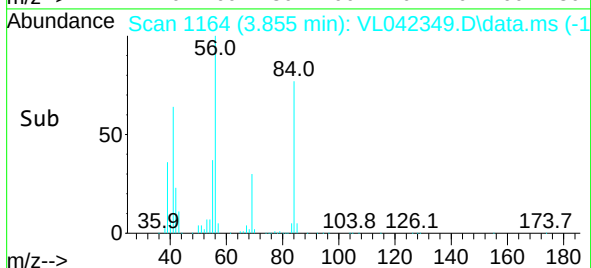
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

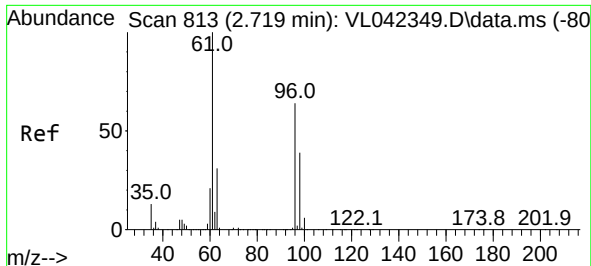


#30
Cyclohexane
Concen: 9.517 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



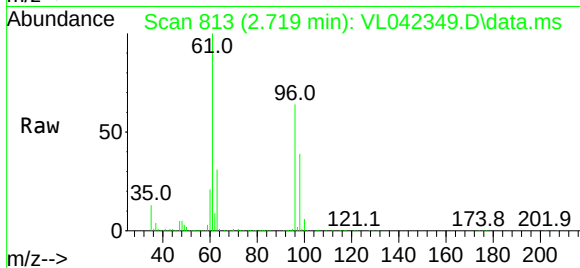
Tgt Ion: 84 Resp: 157035
Ion Ratio Lower Upper
84 100
56 126.2 101.0 151.4
41 84.2 67.4 101.0





#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

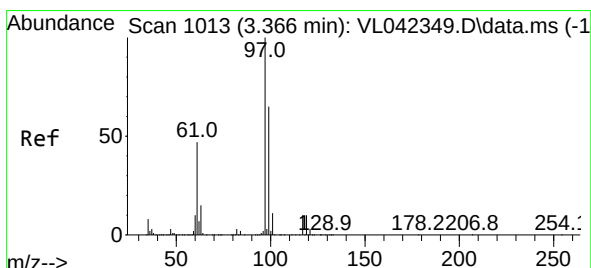
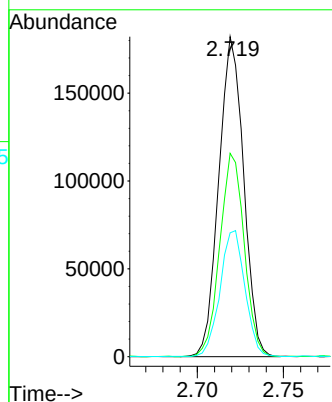
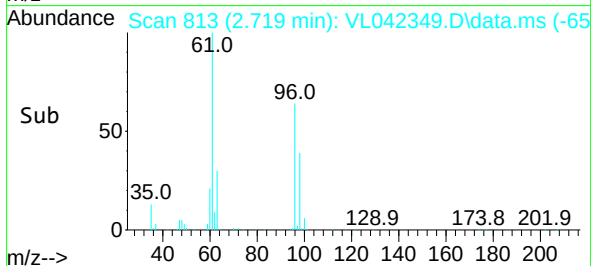
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



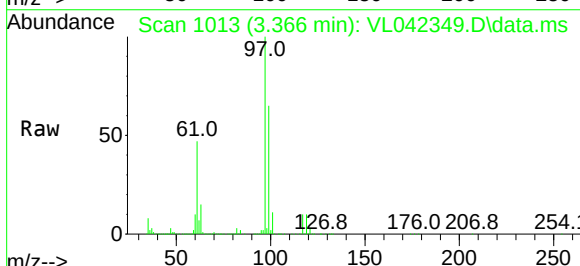
Tgt Ion: 61 Resp: 18308
 Ion Ratio Lower Upper
 61 100
 96 63.5 50.8 76.2
 98 38.6 30.9 46.3

Manual Integrations
 APPROVED

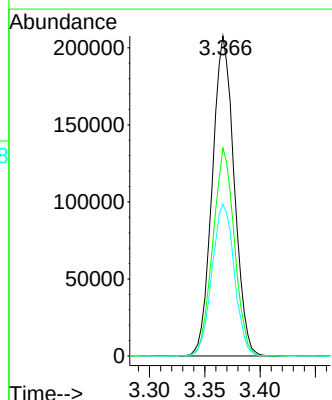
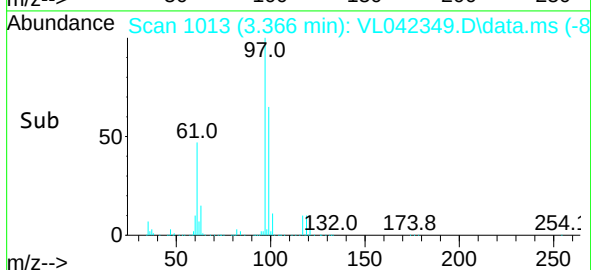
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

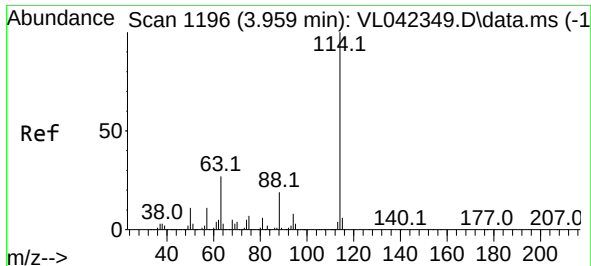


#32
 1,1,1-Trichloroethane
 Concen: 9.187 ppbv
 RT: 3.366 min Scan# 1013
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44



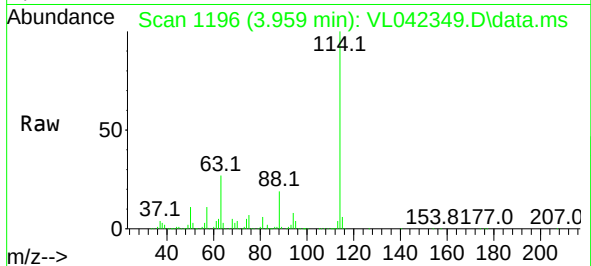
Tgt Ion: 97 Resp: 285336
 Ion Ratio Lower Upper
 97 100
 99 63.7 51.0 76.4
 61 48.5 38.8 58.2





#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

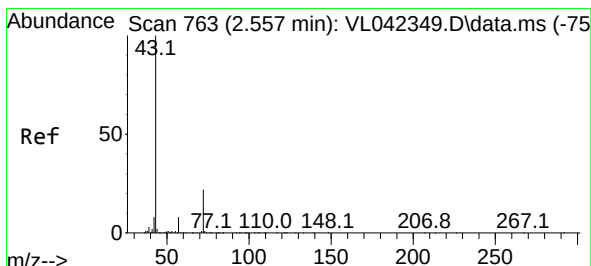
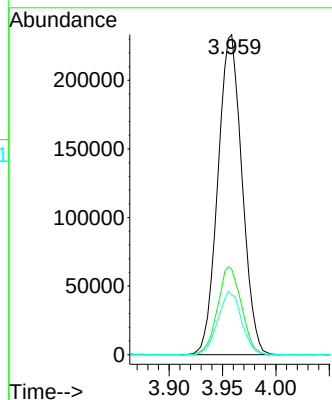
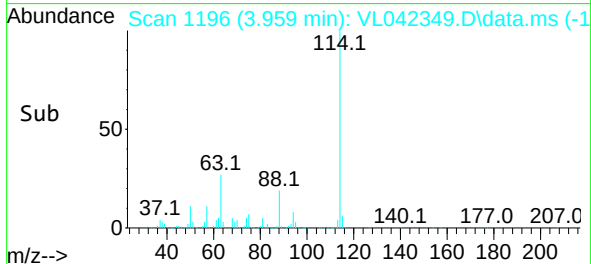
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



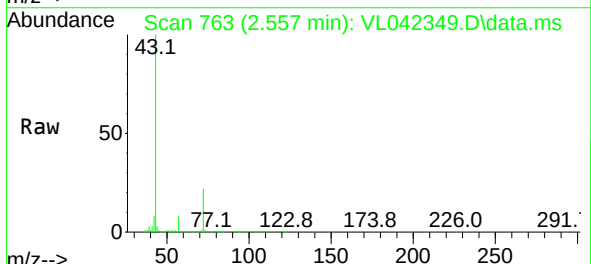
Tgt Ion:114 Resp: 366544
Ion Ratio Lower Upper
114 100
63 27.2 21.8 32.6
88 19.4 15.5 23.3

Manual Integrations
APPROVED

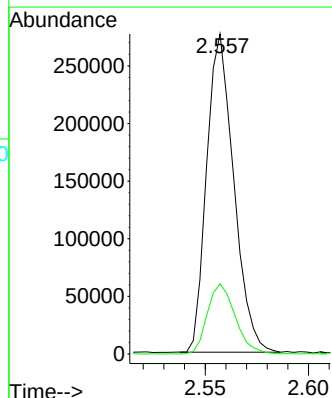
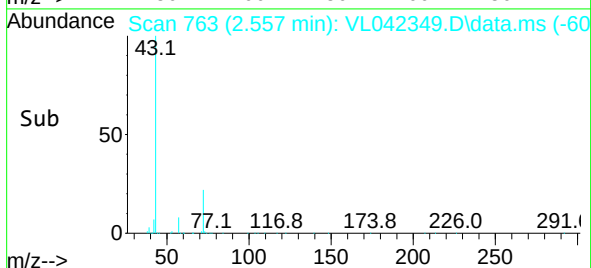
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

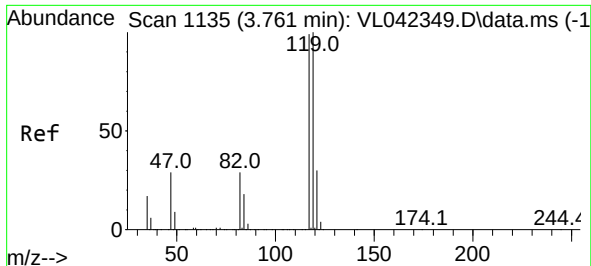


#34
2-Butanone
Concen: 8.683 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



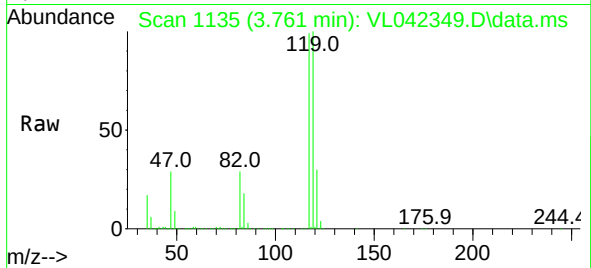
Tgt Ion: 43 Resp: 251704
Ion Ratio Lower Upper
43 100
72 22.7 18.2 27.2





#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

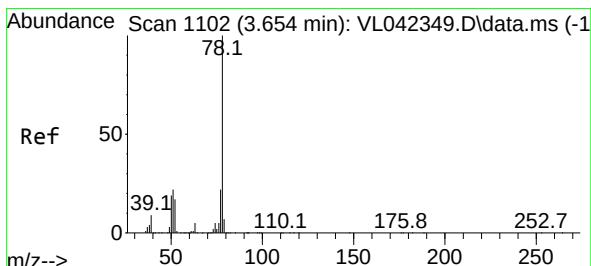
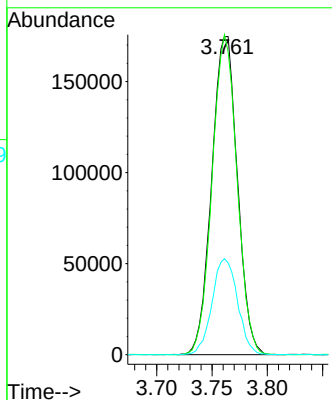
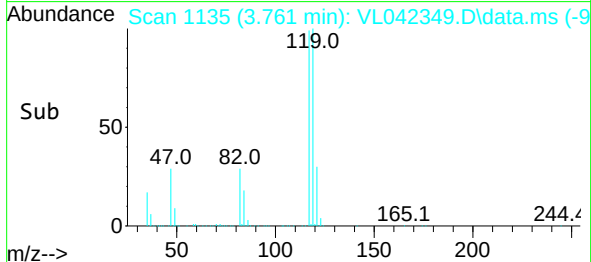
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



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

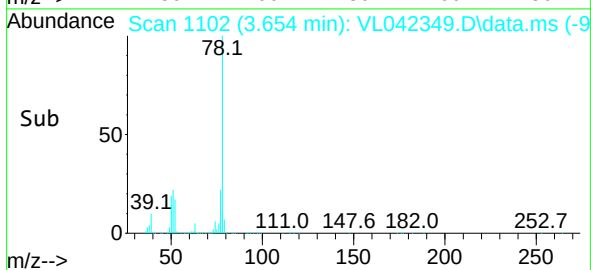
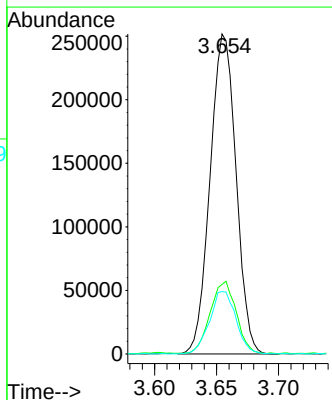
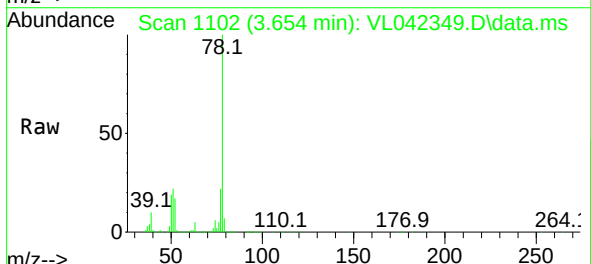
Manual Integrations
APPROVED

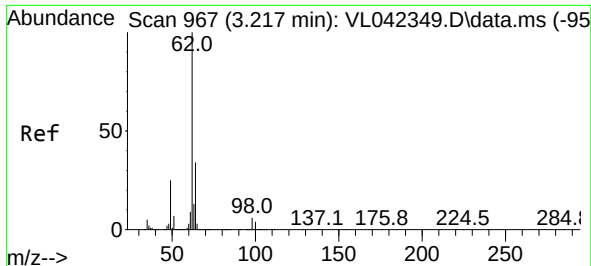
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

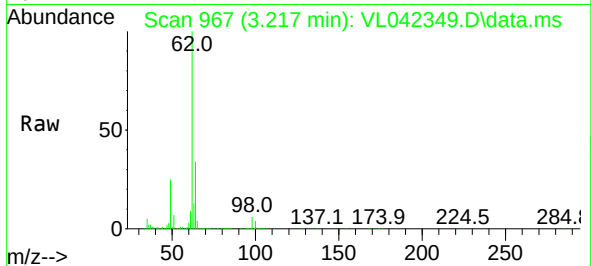
Tgt Ion: 78 Resp: 367355
Ion Ratio Lower Upper
78 100
77 21.7 17.4 26.0
50 19.4 15.5 23.3





#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

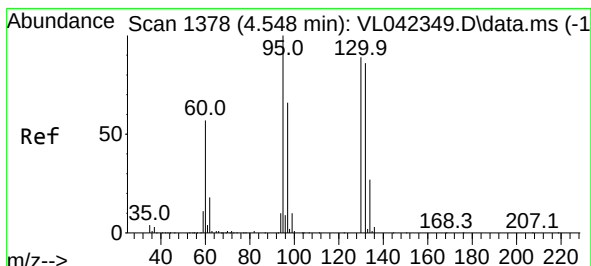
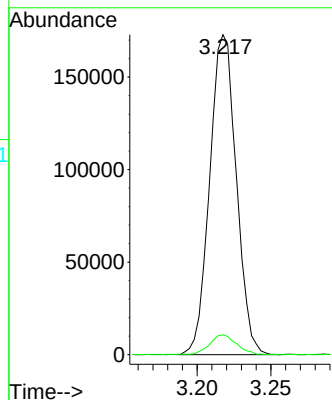
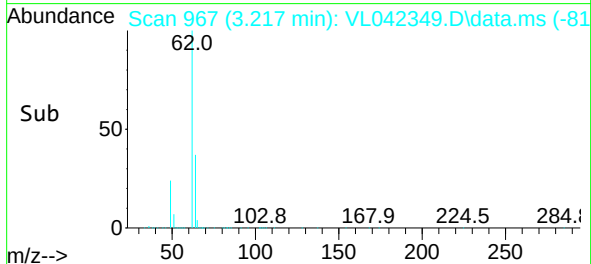
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



Tgt Ion: 62 Resp: 216999
Ion Ratio Lower Upper
62 100
98 6.4 5.1 7.7

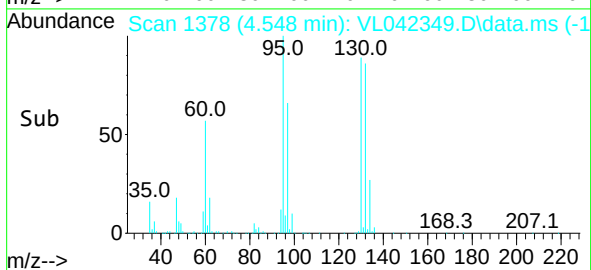
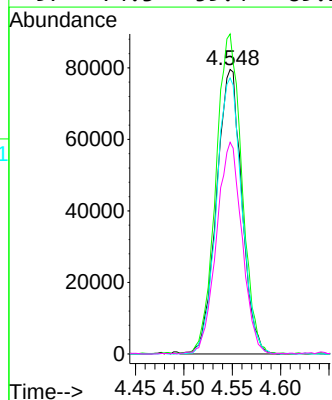
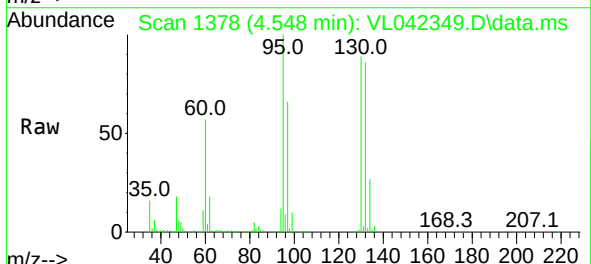
Manual Integrations
APPROVED

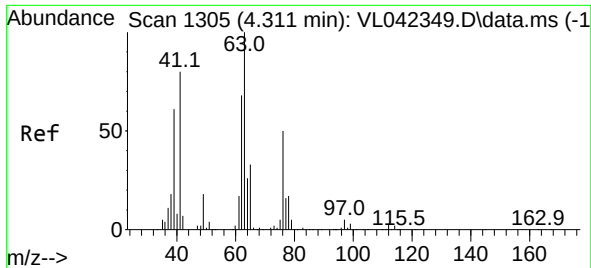
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

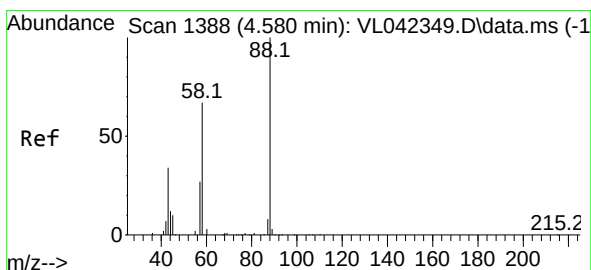
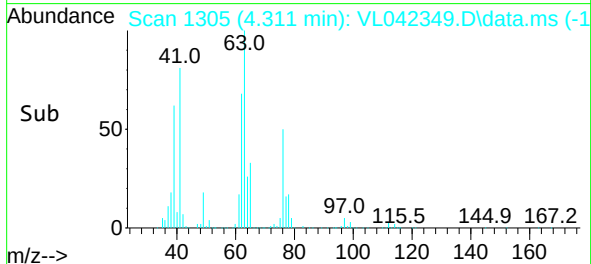
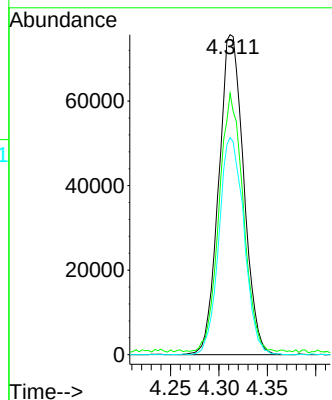
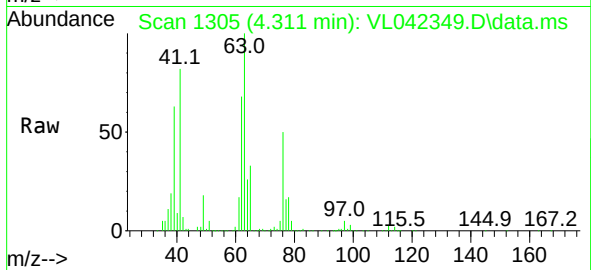
62 67.9 54.3 81.5

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

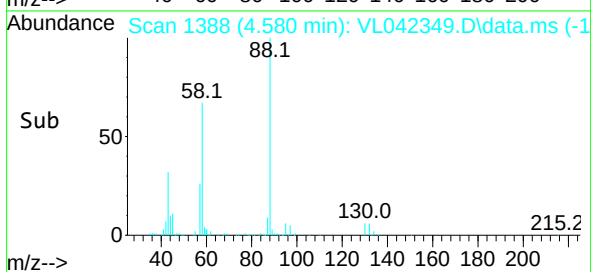
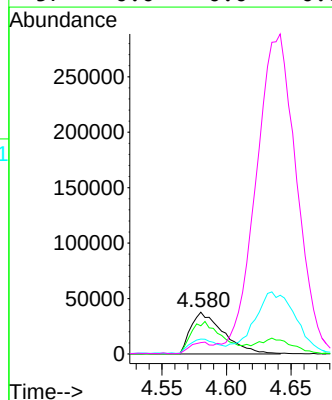
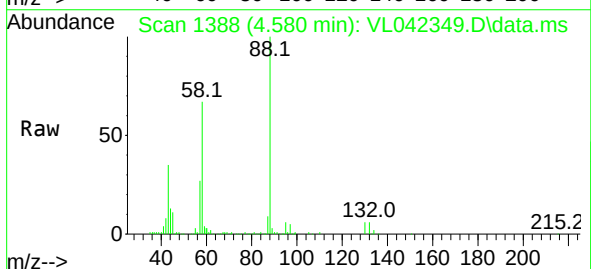
Ion Ratio Lower Upper

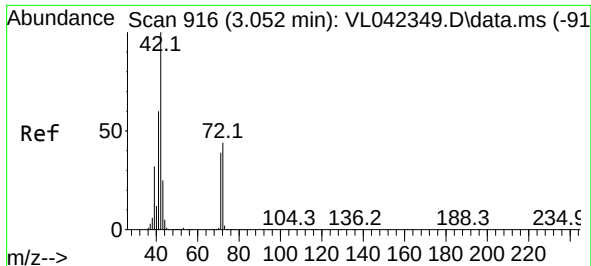
88 100

58 76.7 61.4 92.0

43 29.0 23.2 34.8

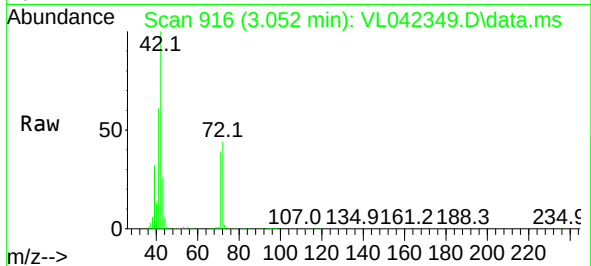
57 0.0 0.0 0.0





#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

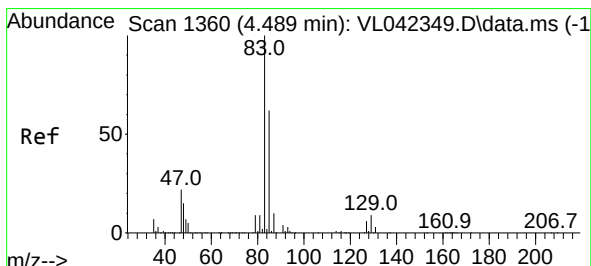
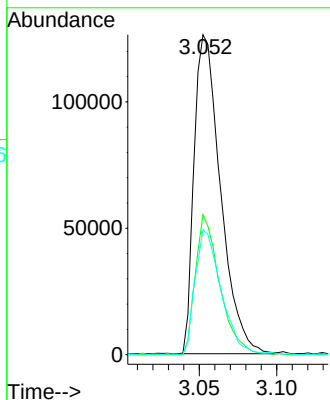
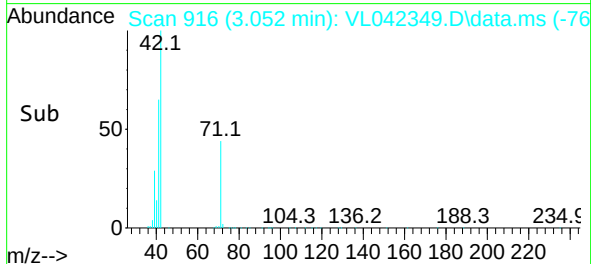
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



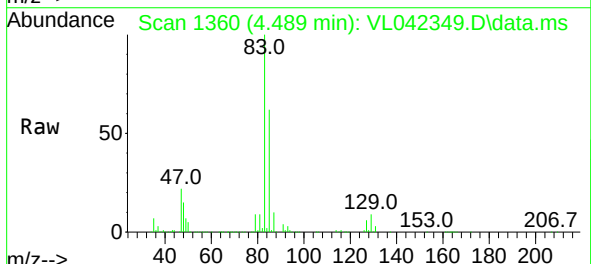
Tgt Ion: 42 Resp: 149905
Ion Ratio Lower Upper
42 100
72 40.4 32.3 48.5
71 39.3 31.4 47.2

Manual Integrations
APPROVED

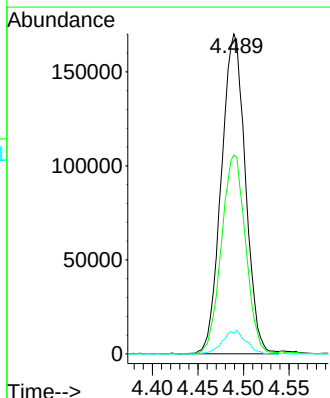
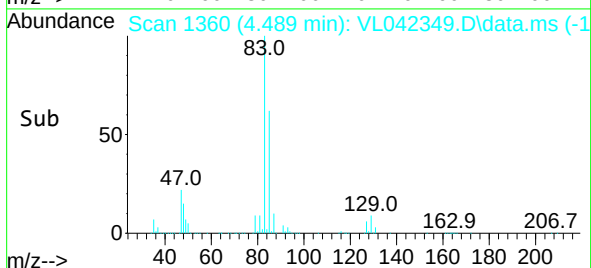
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

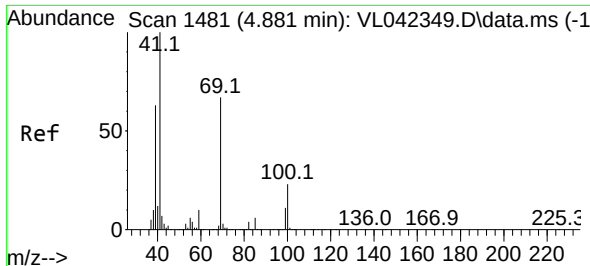


#42
Bromodichloromethane
Concen: 9.456 ppbv
RT: 4.489 min Scan# 1360
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



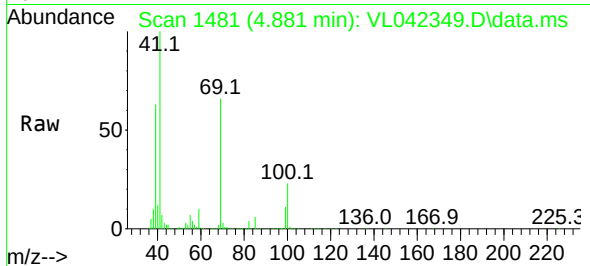
Tgt Ion: 83 Resp: 312268
Ion Ratio Lower Upper
83 100
85 62.1 49.7 74.5
127 6.4 5.1 7.7





#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

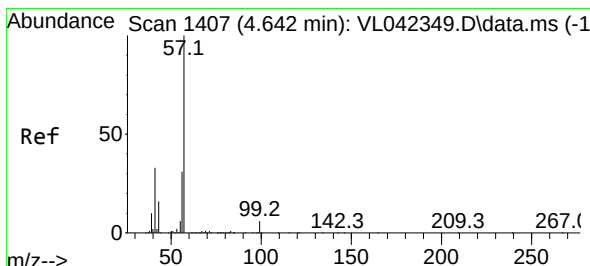
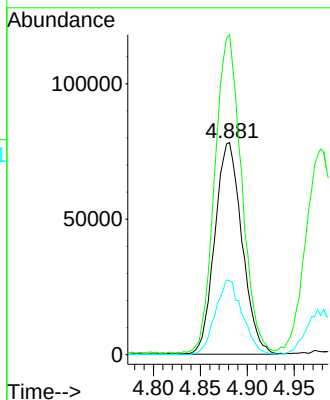
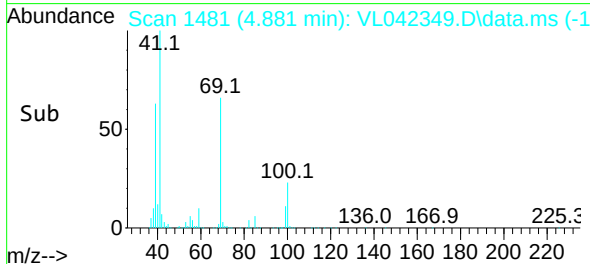
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



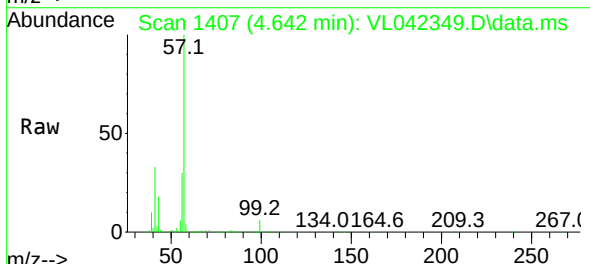
Tgt Ion: 69 Resp: 15750
Ion Ratio Lower Upper
69 100
41 148.2 118.6 177.8
100 35.2 28.2 42.2

Manual Integrations
APPROVED

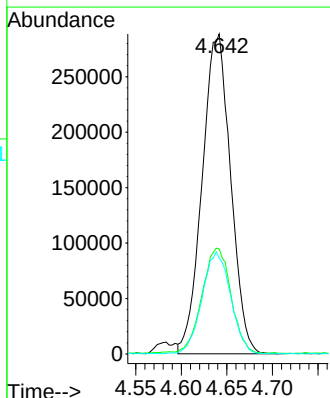
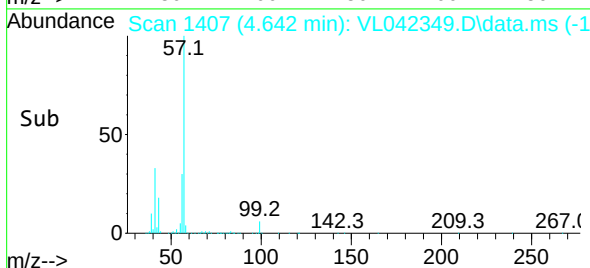
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

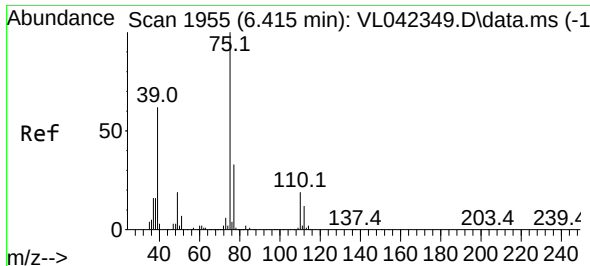


#44
2,2,4-Trimethylpentane
Concen: 9.157 ppbv
RT: 4.642 min Scan# 1407
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



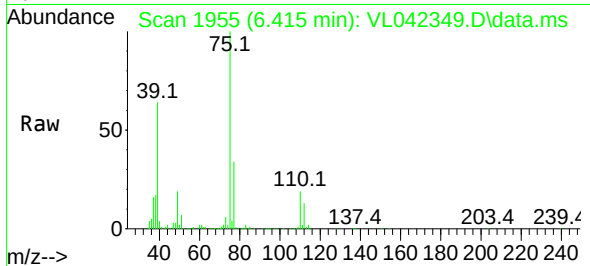
Tgt Ion: 57 Resp: 626085
Ion Ratio Lower Upper
57 100
41 34.0 27.2 40.8
56 32.1 25.7 38.5





#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

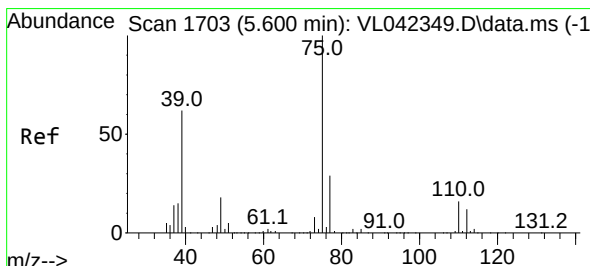
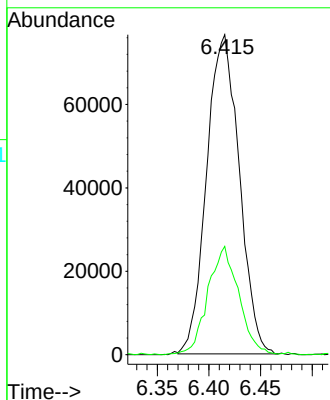
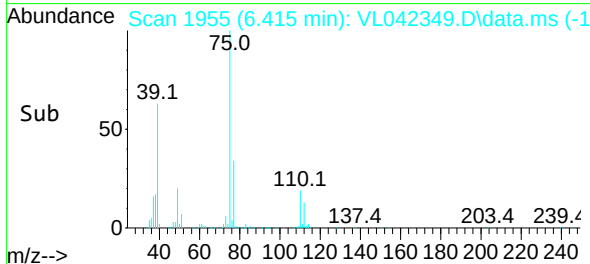
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



Tgt Ion: 75 Resp: 16822
 Ion Ratio Lower Upper
 75 100
 77 33.8 27.0 40.6

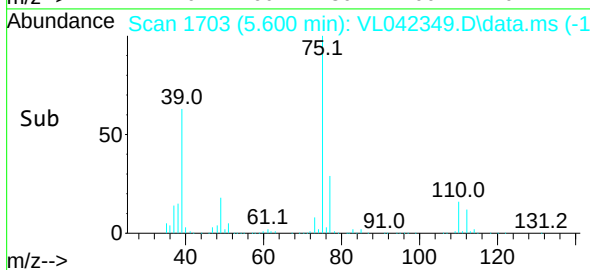
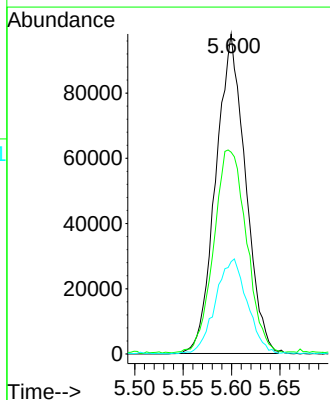
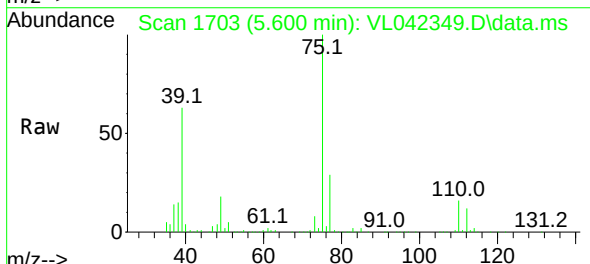
Manual Integrations
 APPROVED

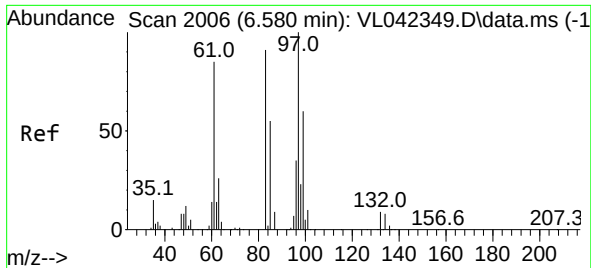
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#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

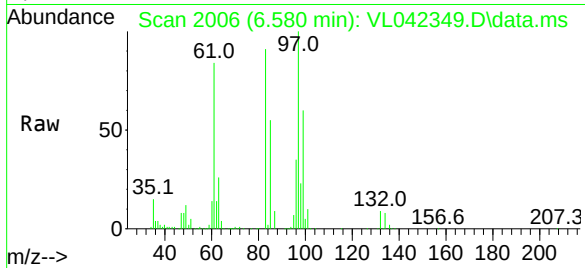
Tgt Ion: 75 Resp: 208811
 Ion Ratio Lower Upper
 75 100
 39 62.5 50.0 75.0
 77 28.8 23.0 34.6





#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

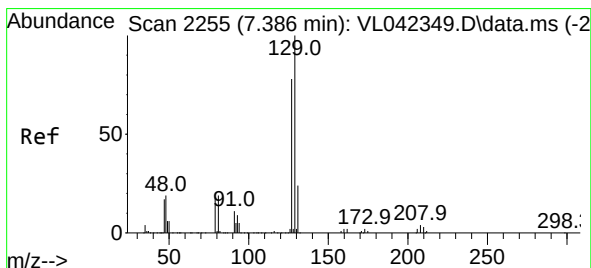
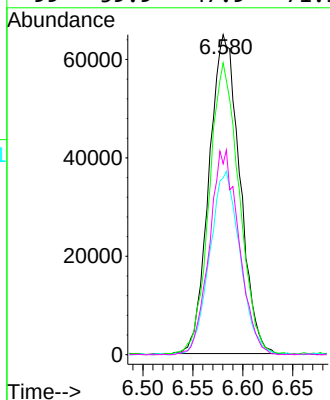
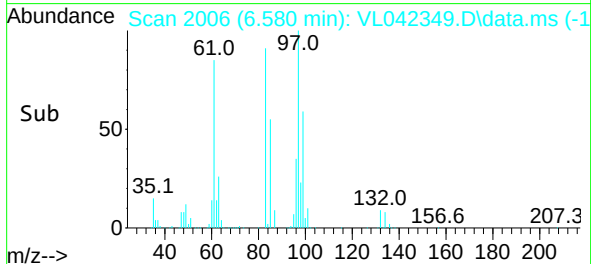
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



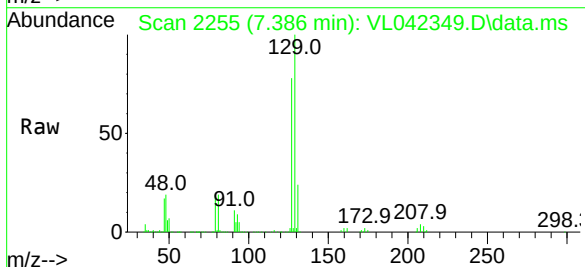
Tgt Ion: 97 Resp: 137898
Ion Ratio Lower Upper
97 100
83 91.0 72.8 109.2
85 55.3 44.2 66.4
99 59.9 47.9 71.9

Manual Integrations
APPROVED

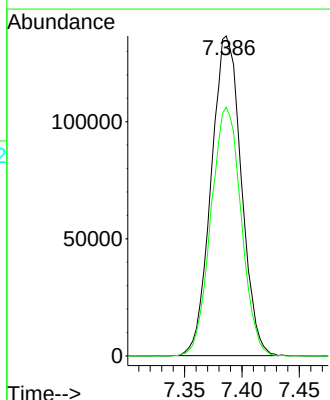
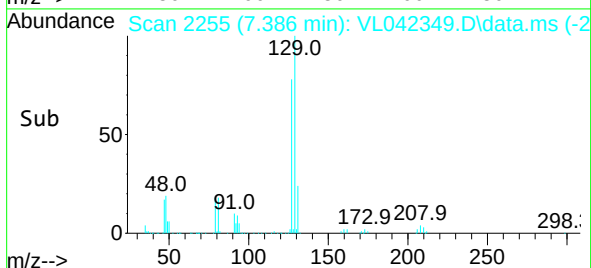
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

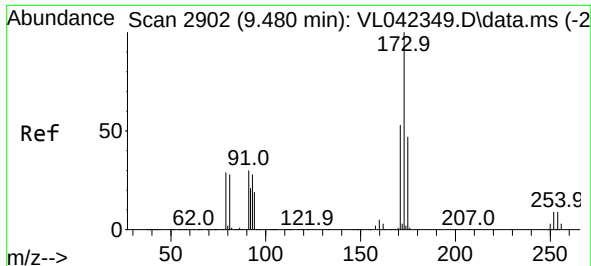


#48
Dibromochloromethane
Concen: 9.388 ppbv
RT: 7.386 min Scan# 2255
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



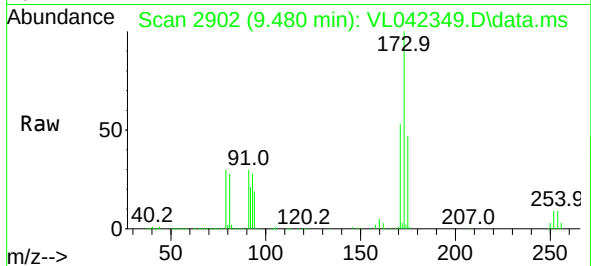
Tgt Ion:129 Resp: 248954
Ion Ratio Lower Upper
129 100
127 78.2 39.1 117.3





#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

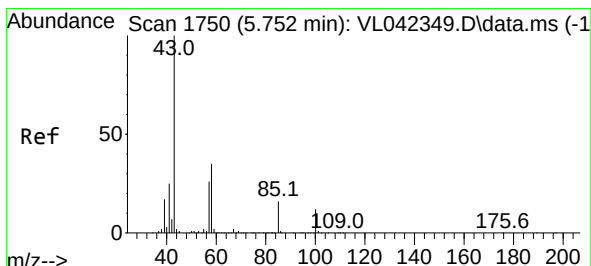
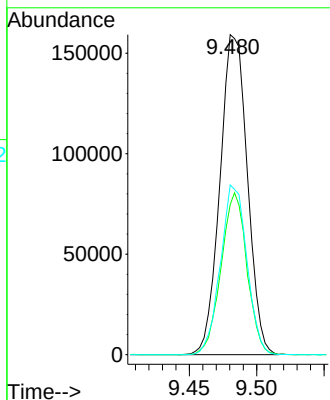
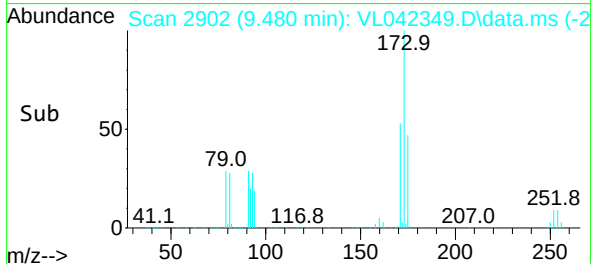
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



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

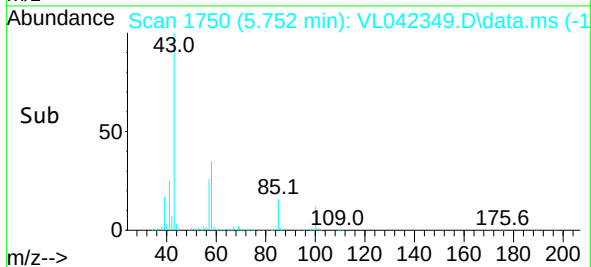
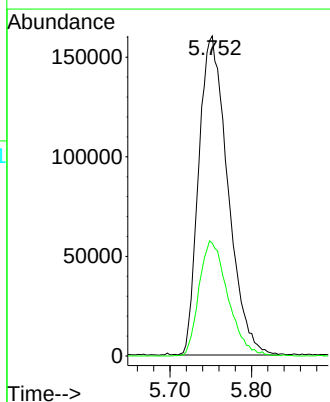
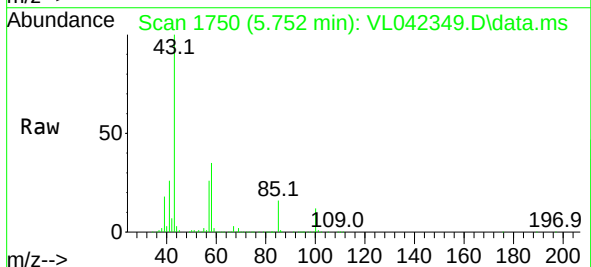
Manual Integrations
APPROVED

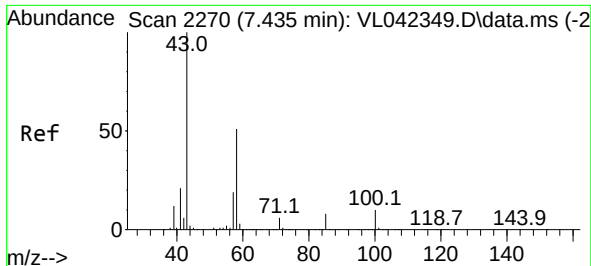
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

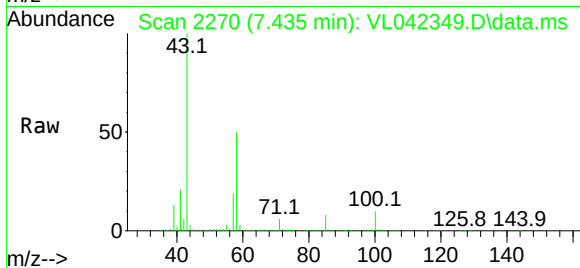
Tgt Ion: 43 Resp: 396548
Ion Ratio Lower Upper
43 100
58 35.8 28.6 43.0





#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

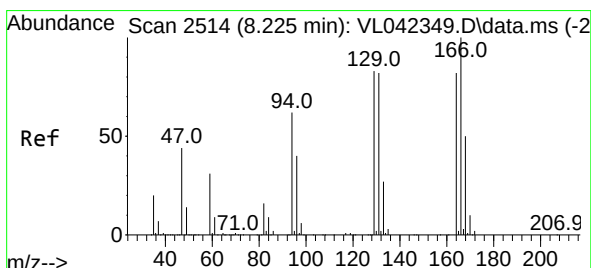
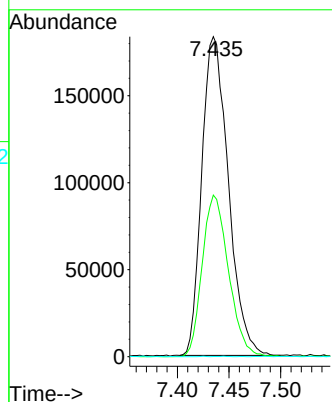
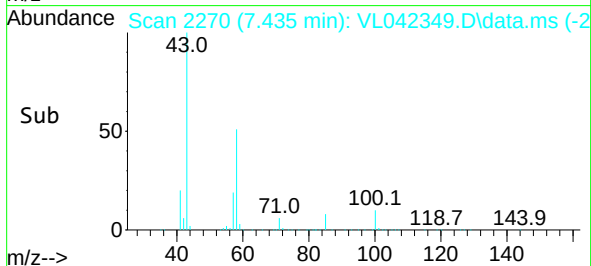
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



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

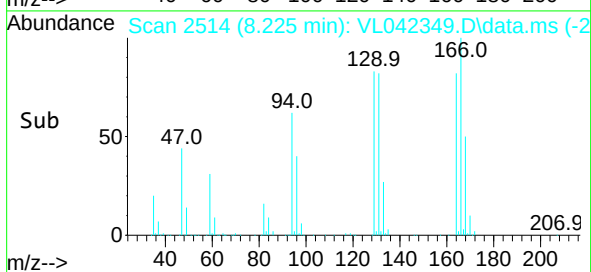
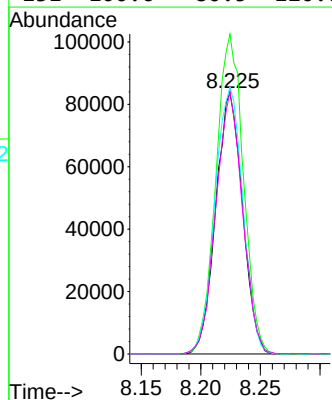
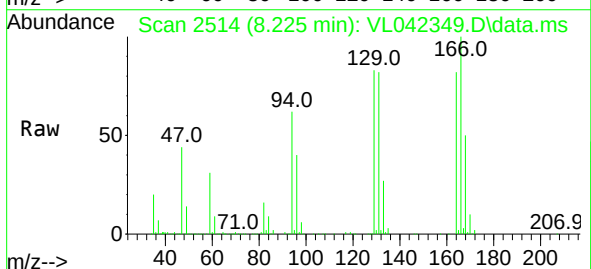
Manual Integrations
APPROVED

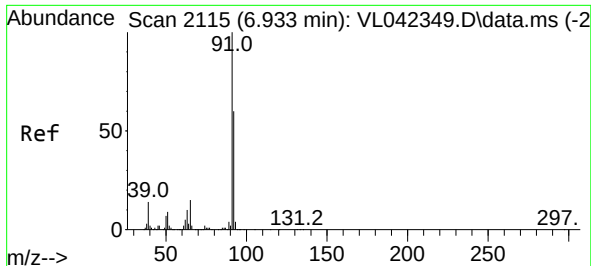
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

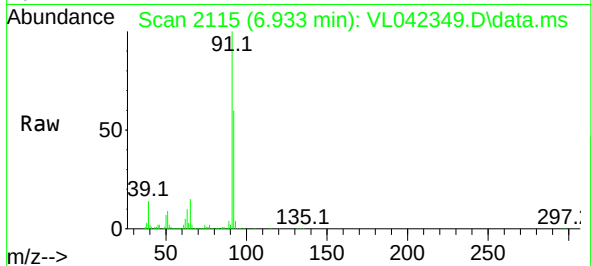
Tgt Ion:164 Resp: 130720
Ion Ratio Lower Upper
164 100
166 122.7 98.2 147.2
129 102.3 81.8 122.8
131 100.6 80.5 120.7





#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

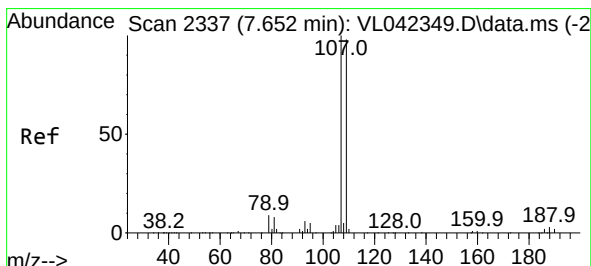
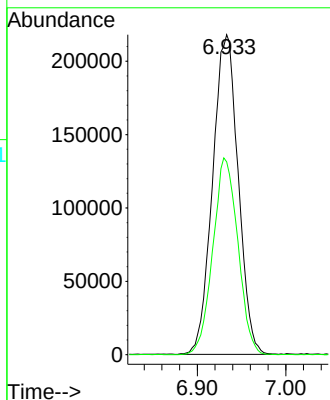
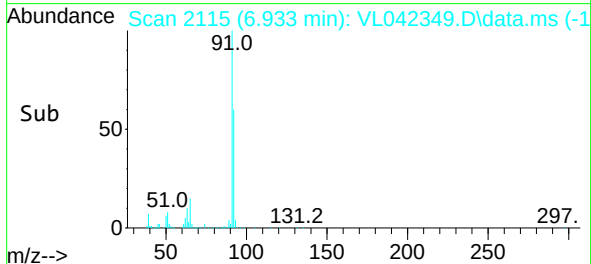
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



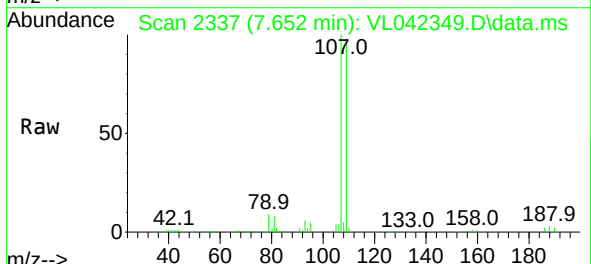
Tgt Ion: 91 Resp: 437258
Ion Ratio Lower Upper
91 100
92 60.3 48.2 72.4

Manual Integrations
APPROVED

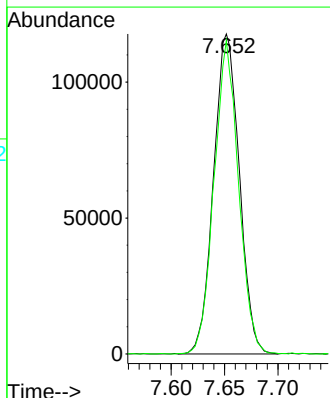
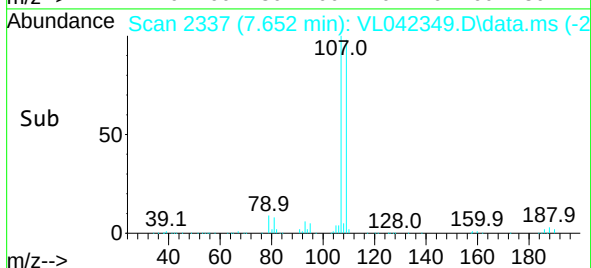
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

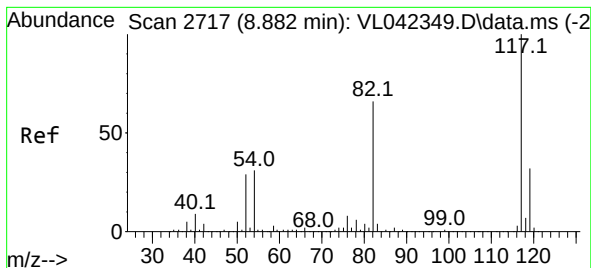


#54
1,2-Dibromoethane
Concen: 9.235 ppbv
RT: 7.652 min Scan# 2337
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



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

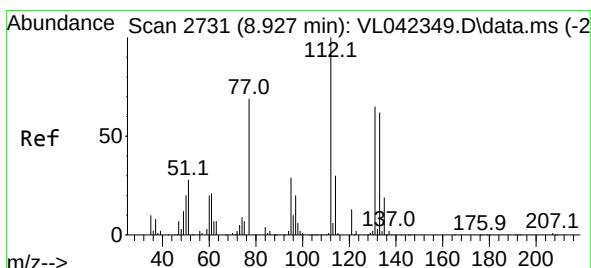
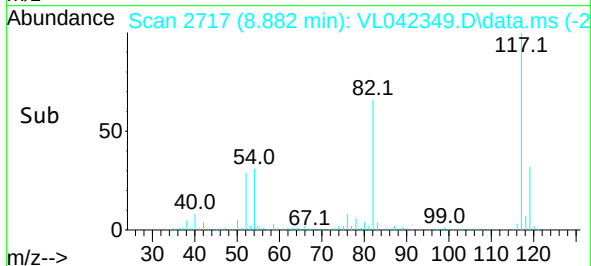
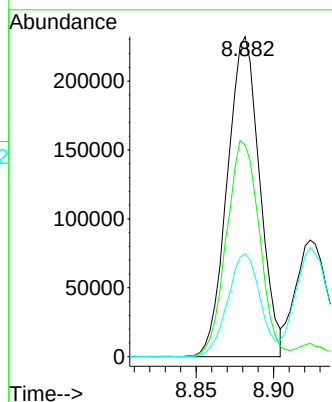
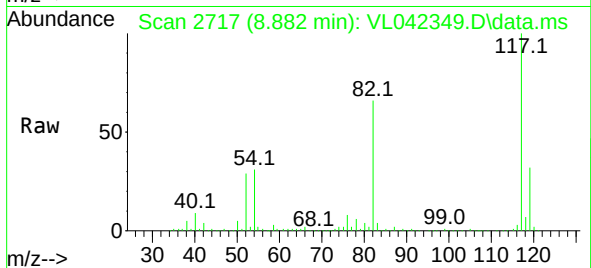
Tgt Ion:117 Resp: 338120

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

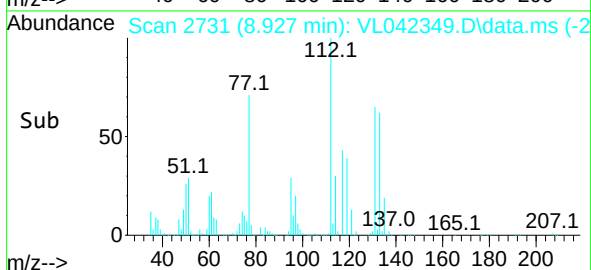
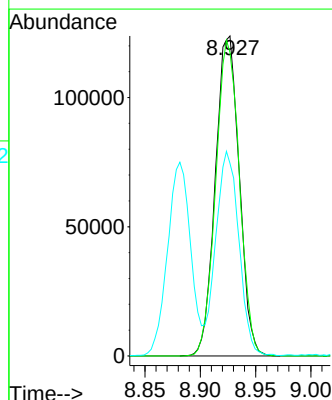
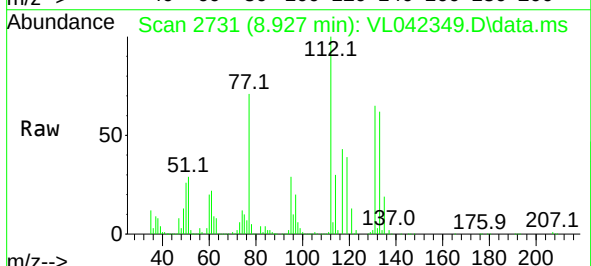
Delta R.T. 0.000 min

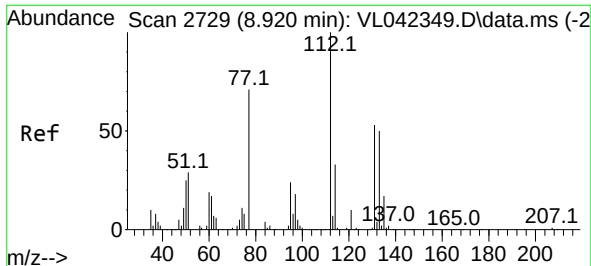
Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

Tgt Ion:131 Resp: 186041

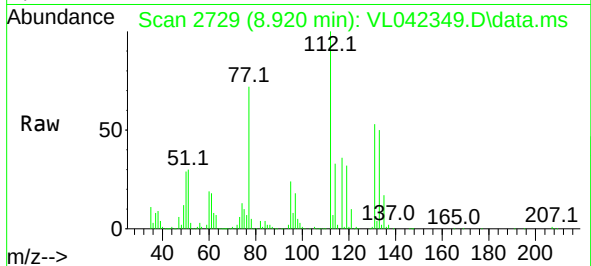
Ion	Ratio	Lower	Upper
131	100		
133	97.9	78.3	117.5
119	60.9	48.7	73.1





#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

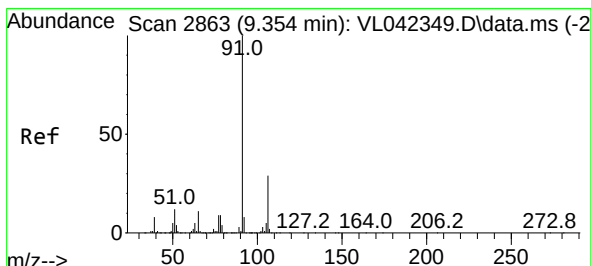
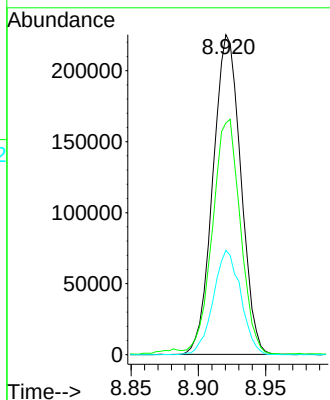
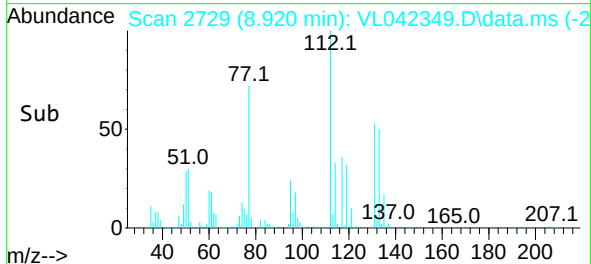
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



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

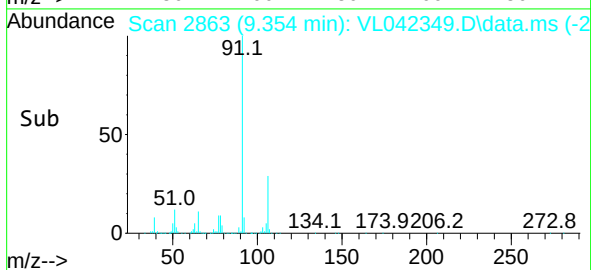
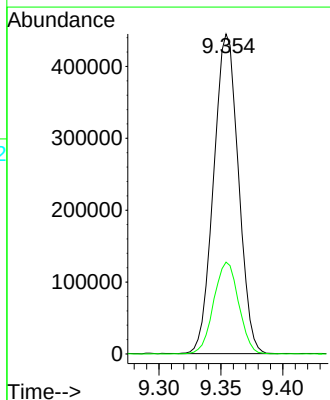
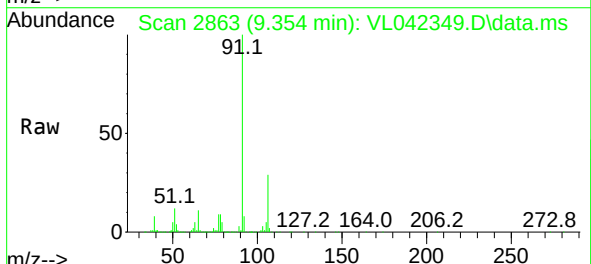
Manual Integrations
APPROVED

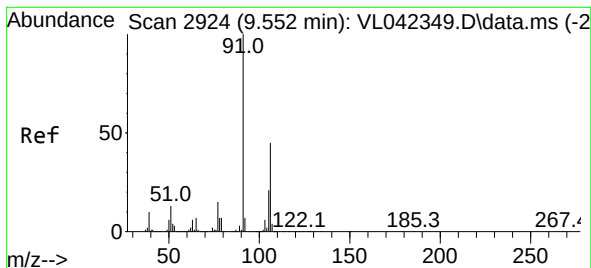
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

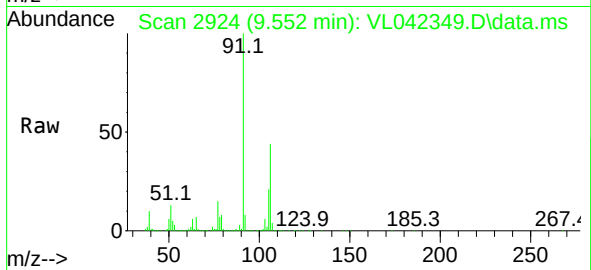
Tgt Ion: 91 Resp: 619581
Ion Ratio Lower Upper
91 100
106 28.7 23.0 34.4





#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

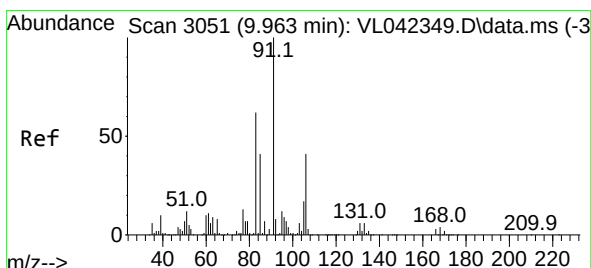
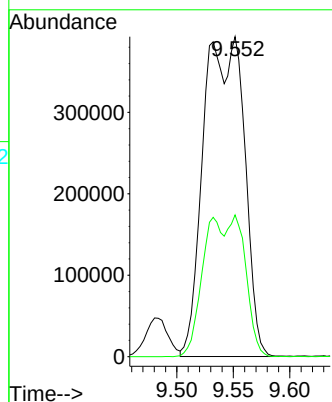
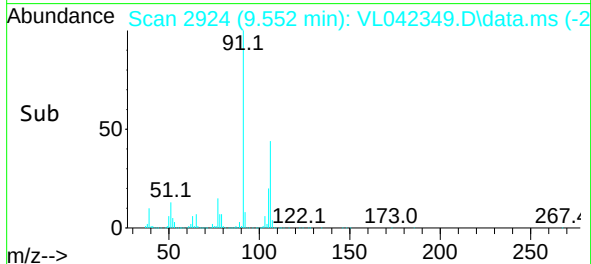
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



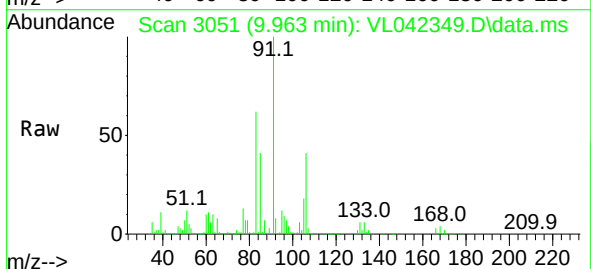
Tgt Ion: 91 Resp: 984458
Ion Ratio Lower Upper
91 100
106 44.3 35.4 53.2

Manual Integrations
APPROVED

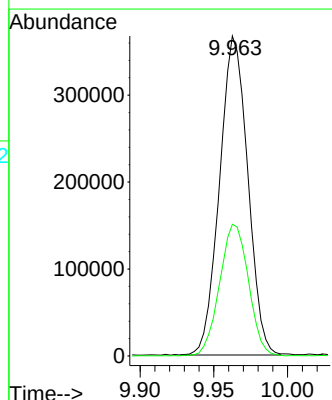
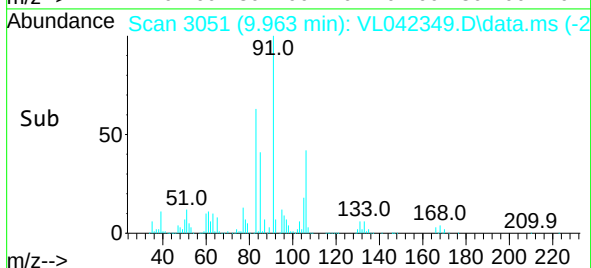
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

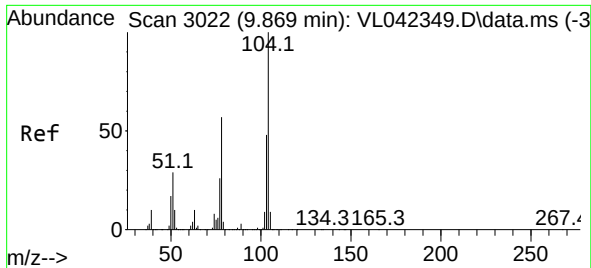


#60
o-Xylene
Concen: 8.972 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



Tgt Ion: 91 Resp: 487616
Ion Ratio Lower Upper
91 100
106 42.3 21.1 63.4





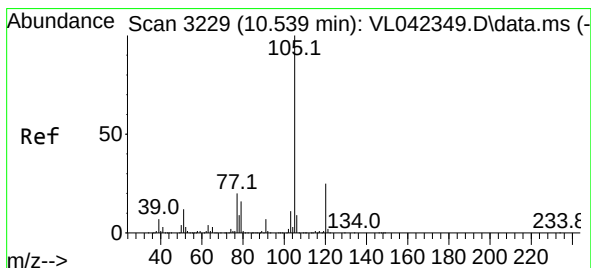
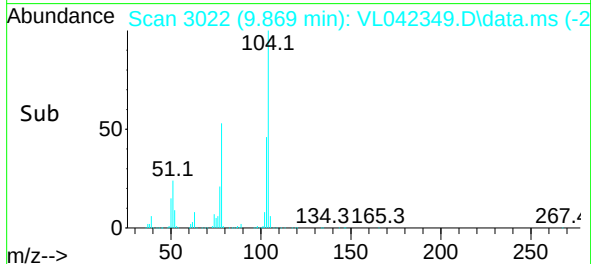
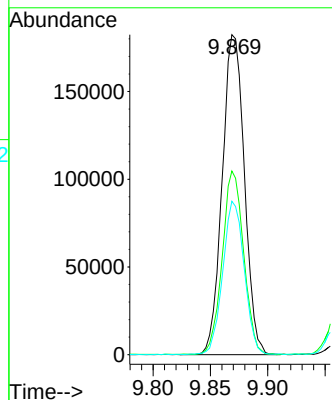
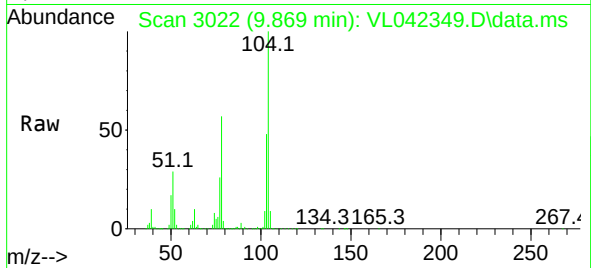
#61
Styrene
Concen: 9.464 ppbv
RT: 9.869 min Scan# 3022
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Instrument :
MSVOA_1
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

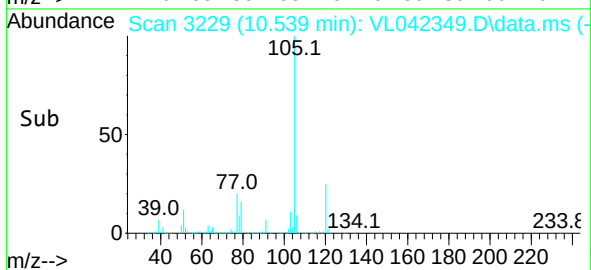
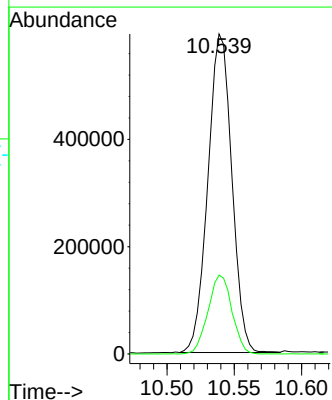
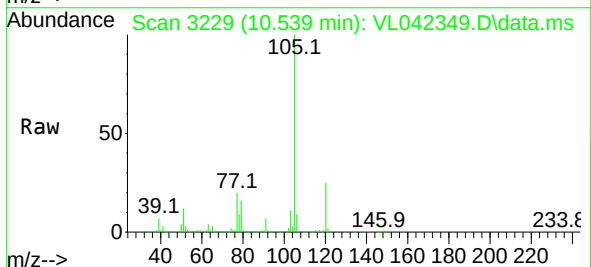
Manual Integrations
APPROVED

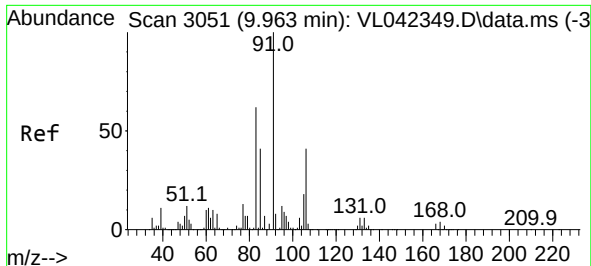
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

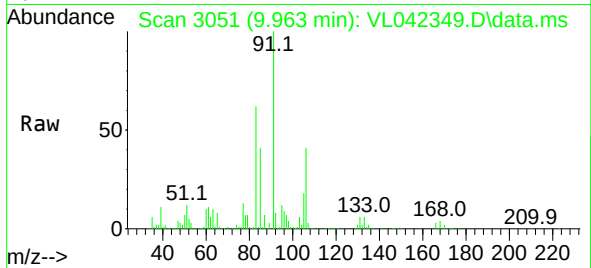
Tgt Ion:105 Resp: 733788
Ion Ratio Lower Upper
105 100
120 24.8 19.8 29.8





#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

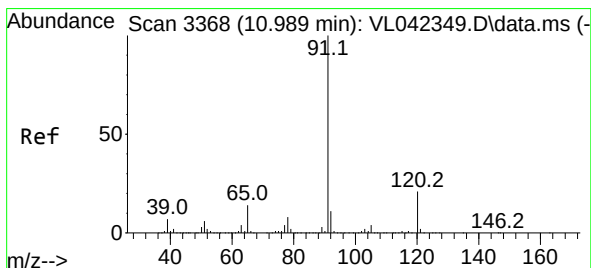
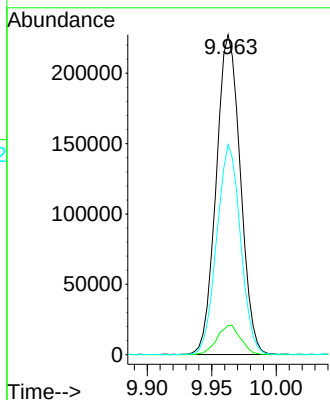
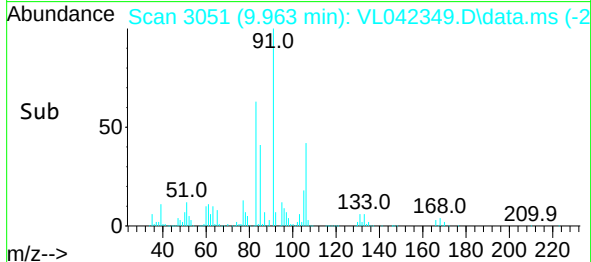
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



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

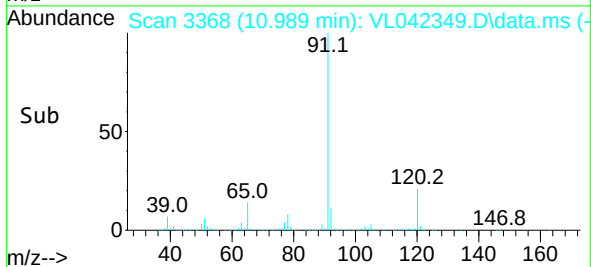
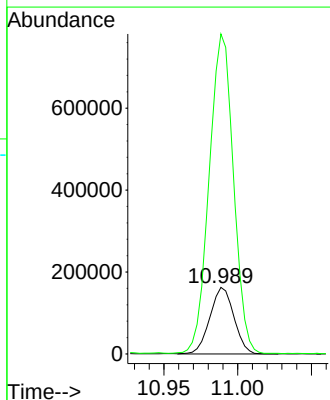
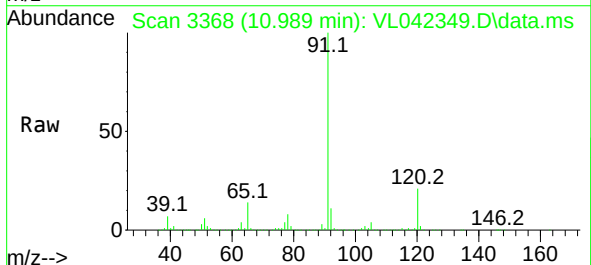
Manual Integrations
APPROVED

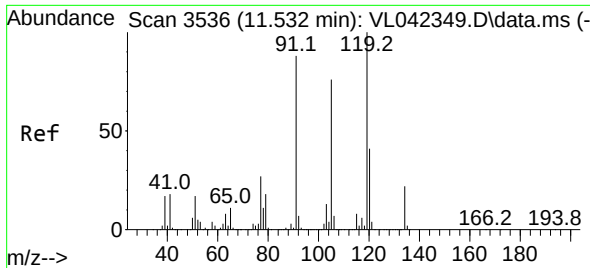
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

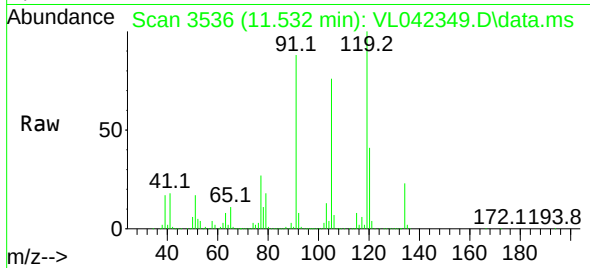
Tgt Ion:120 Resp: 183390
Ion Ratio Lower Upper
120 100
91 490.5 392.4 588.6





#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

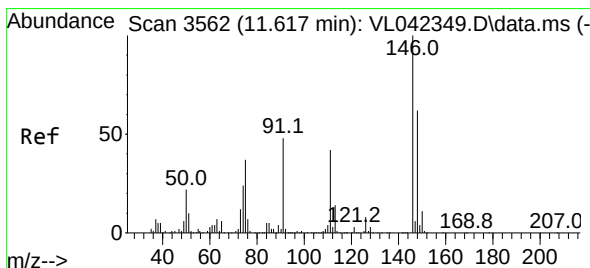
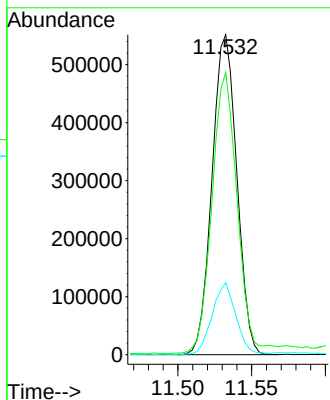
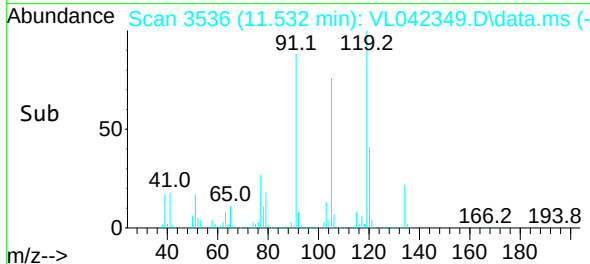
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



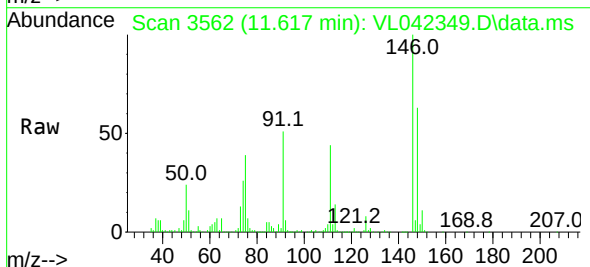
Tgt Ion: 119 Resp: 64495
Ion Ratio Lower Upper
119 100
91 93.2 74.6 111.8
134 23.5 18.8 28.2

Manual Integrations
APPROVED

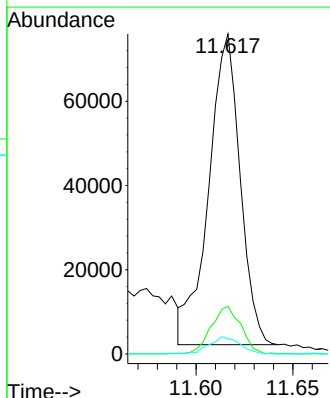
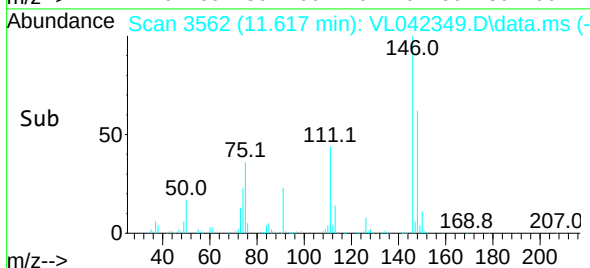
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

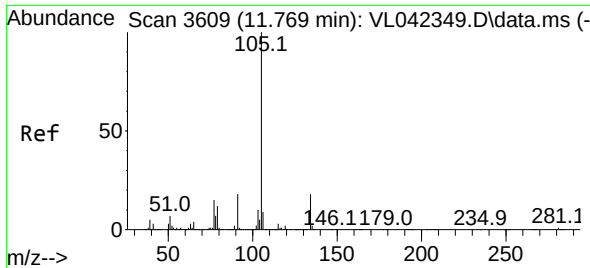


#66
Benzyl Chloride
Concen: 10.333 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



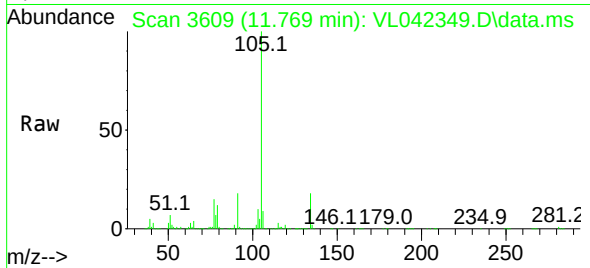
Tgt Ion: 91 Resp: 83269
Ion Ratio Lower Upper
91 100
126 14.7 11.8 17.6
128 5.6 4.5 6.7





#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

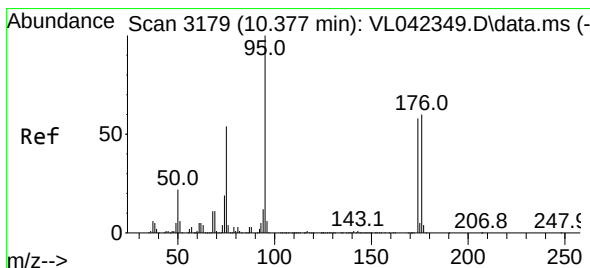
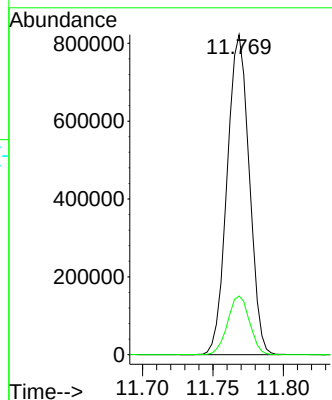
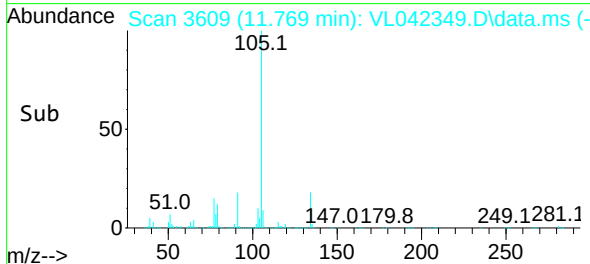
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010



Tgt Ion:105 Resp: 900074
 Ion Ratio Lower Upper
 105 100
 134 18.2 14.6 21.8

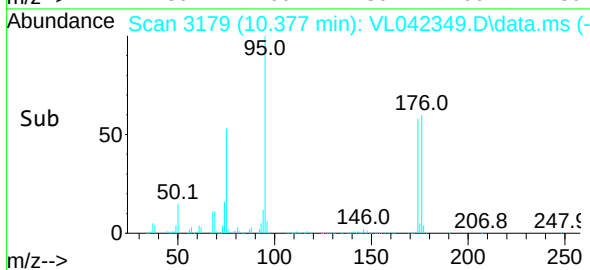
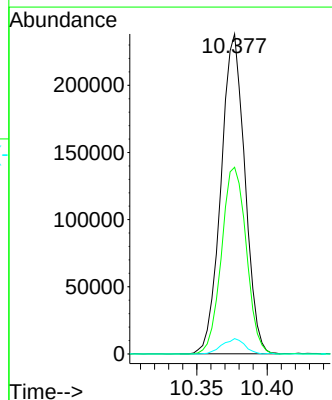
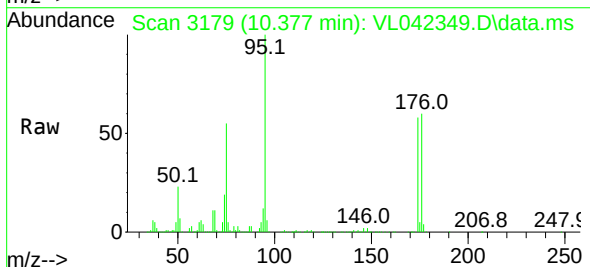
Manual Integrations
 APPROVED

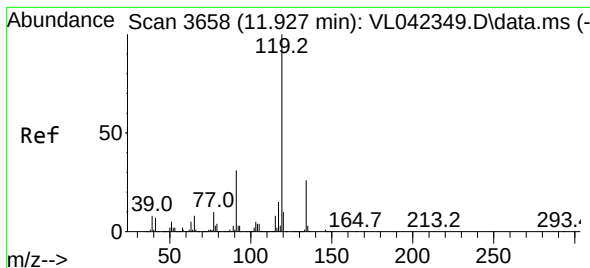
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#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

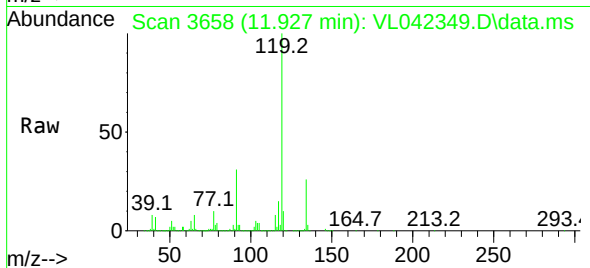
Tgt Ion: 95 Resp: 281013
 Ion Ratio Lower Upper
 95 100
 174 60.6 48.5 72.7
 175 4.6 3.7 5.5





#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

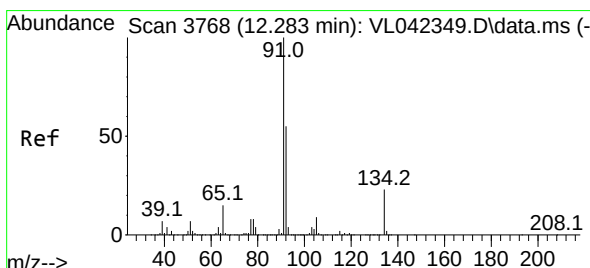
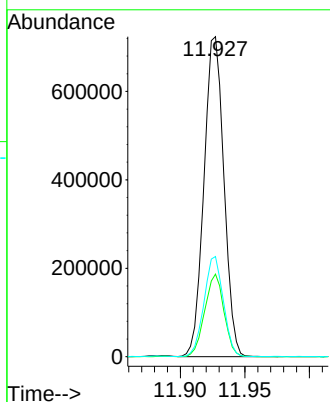
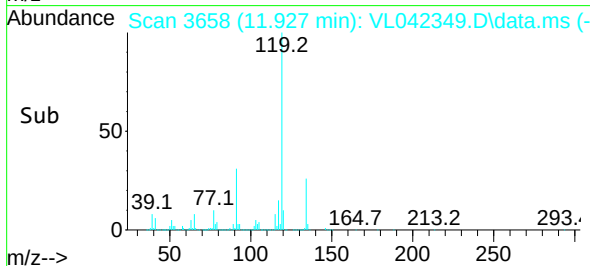
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



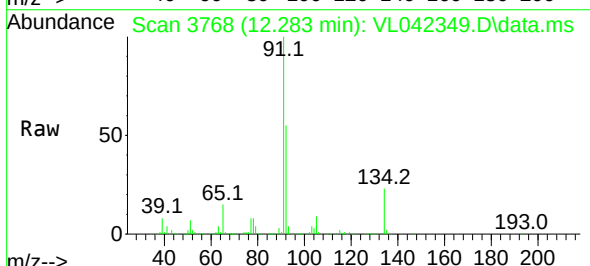
Tgt Ion:119 Resp: 77898
Ion Ratio Lower Upper
119 100
134 25.0 20.0 30.0
91 30.5 24.4 36.6

Manual Integrations
APPROVED

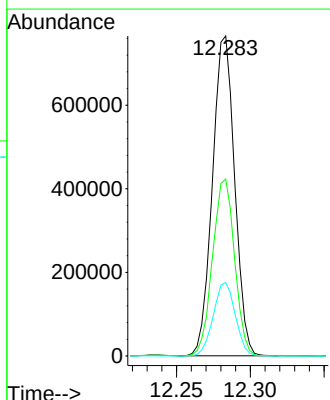
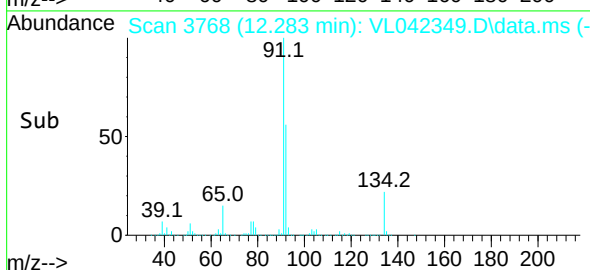
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

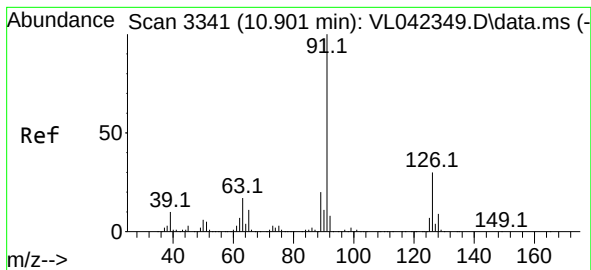


#70
n-Butylbenzene
Concen: 8.682 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



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





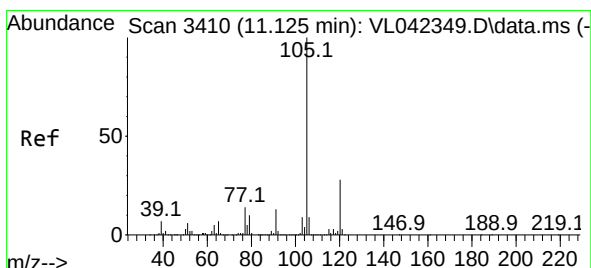
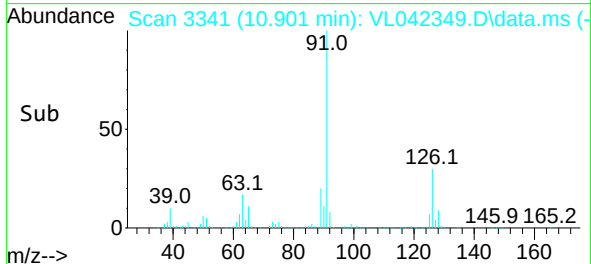
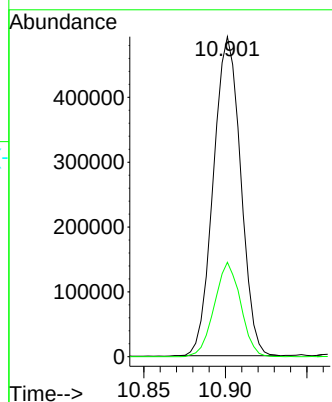
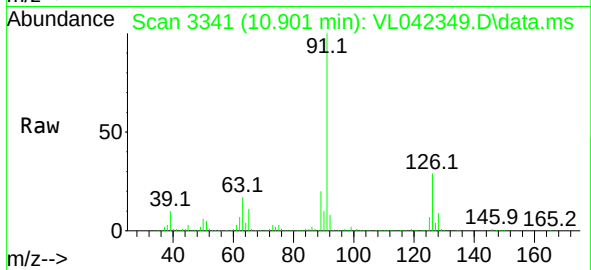
#71
2-Chlorotoluene
Concen: 9.157 ppbv
RT: 10.901 min Scan# 3341
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tgt Ion: 91 Resp: 573039
Ion Ratio Lower Upper
91 100
126 28.4 11.4 45.4

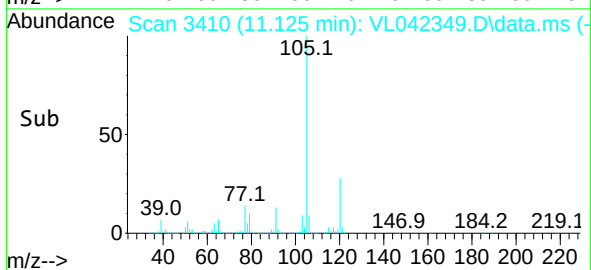
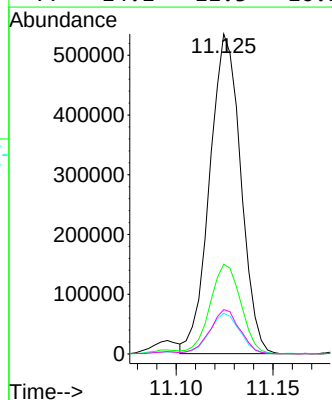
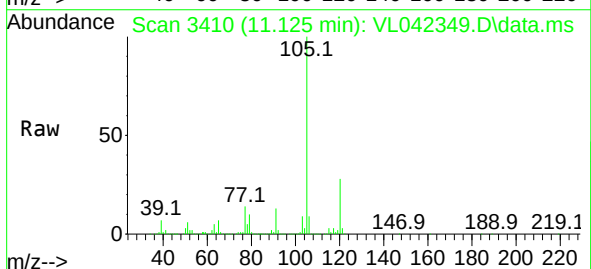
Manual Integrations
APPROVED

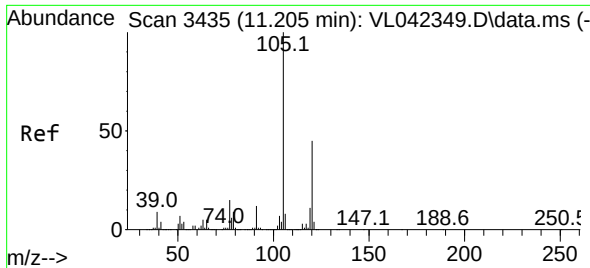
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

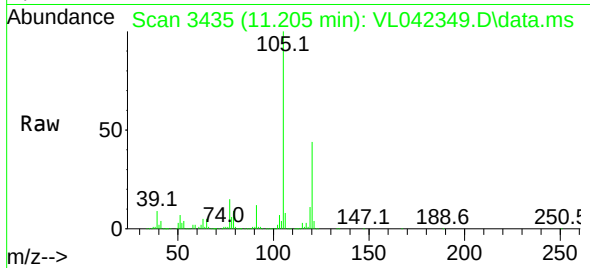
Tgt Ion:105 Resp: 596757
Ion Ratio Lower Upper
105 100
120 29.0 23.2 34.8
91 13.0 10.4 15.6
77 14.1 11.3 16.9





#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

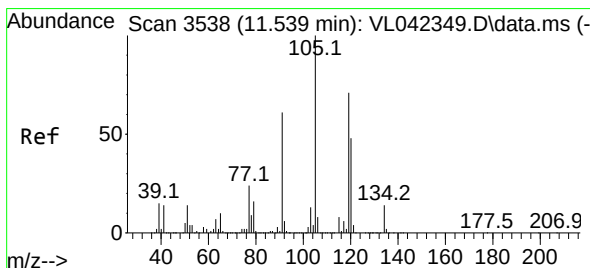
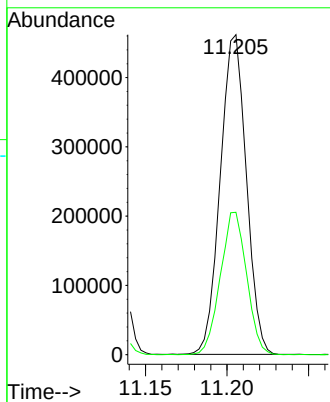
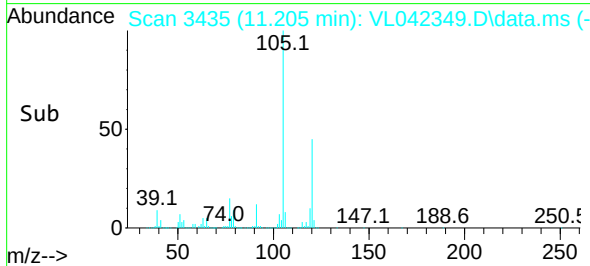
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010



Tgt Ion:105 Resp: 51285
Ion Ratio Lower Upper
105 100
120 44.5 35.6 53.4

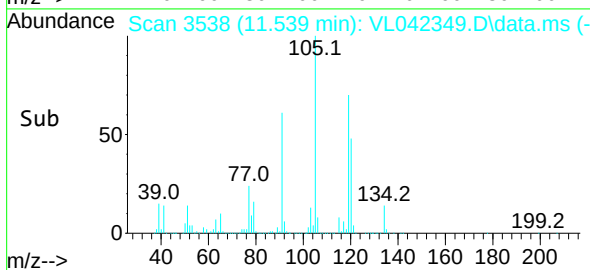
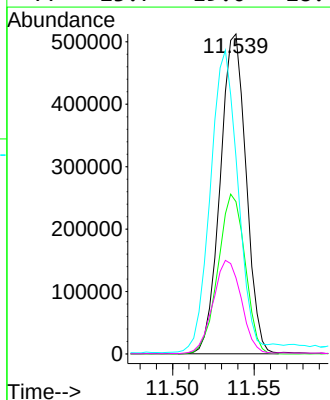
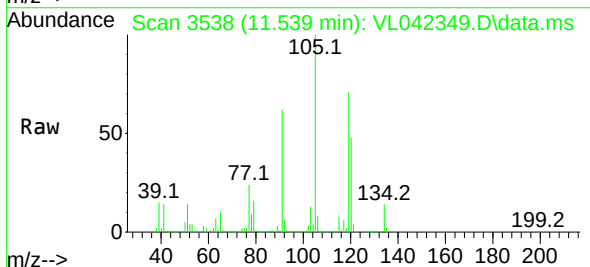
Manual Integrations
APPROVED

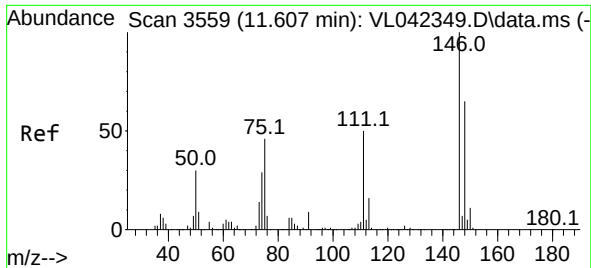
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#74
1,2,4-Trimethylbenzene
Concen: 8.248 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

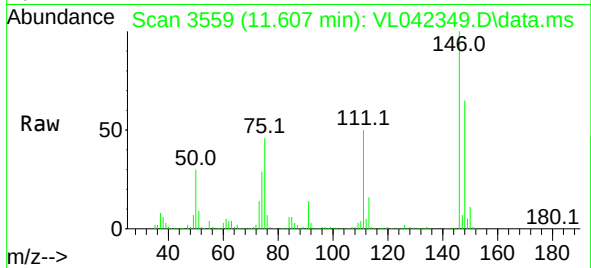
Tgt Ion:105 Resp: 565064
Ion Ratio Lower Upper
105 100
120 47.6 38.1 57.1
91 61.0 48.8 73.2
77 23.7 19.0 28.4





#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

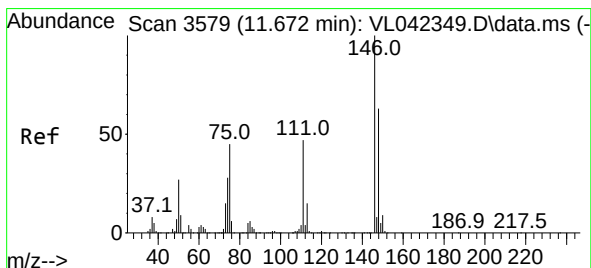
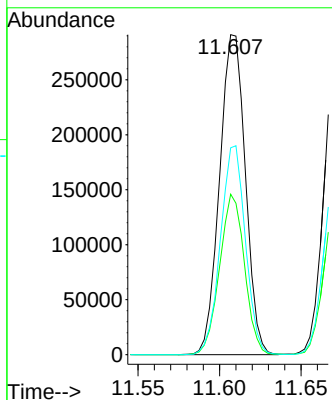
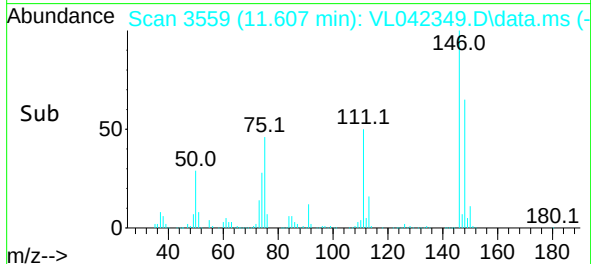
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



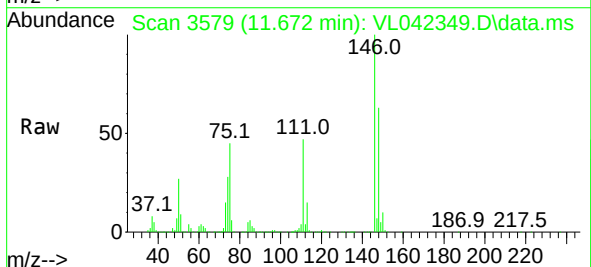
Tgt Ion:146 Resp: 320380
Ion Ratio Lower Upper
146 100
111 48.5 24.3 72.8
148 63.2 31.6 94.8

Manual Integrations
APPROVED

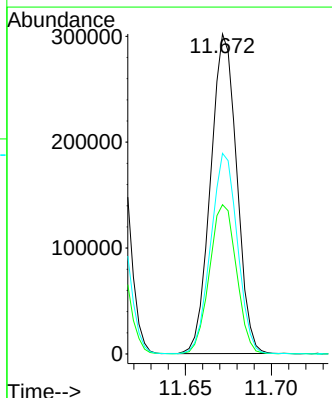
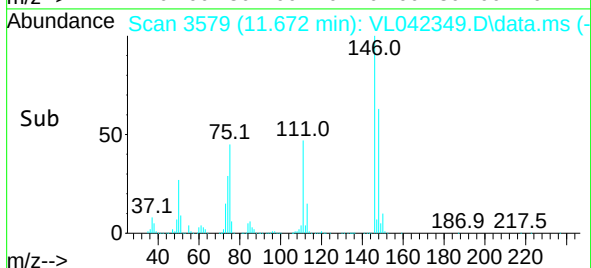
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

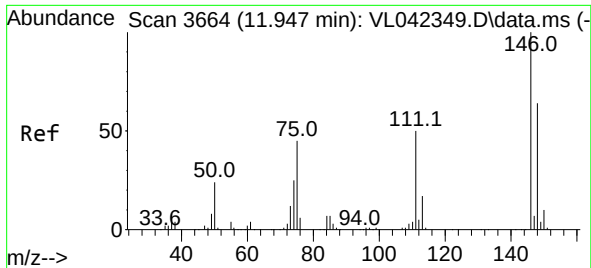


#76
1,4-Dichlorobenzene
Concen: 8.915 ppbv
RT: 11.672 min Scan# 3579
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



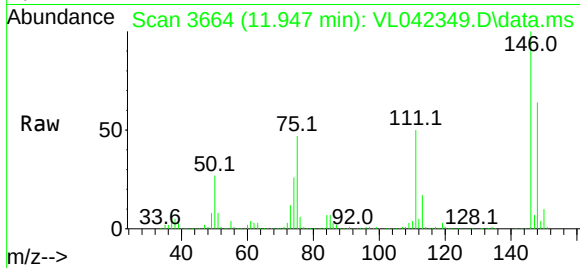
Tgt Ion:146 Resp: 319089
Ion Ratio Lower Upper
146 100
111 48.4 24.2 72.6
148 64.3 32.1 96.5





#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

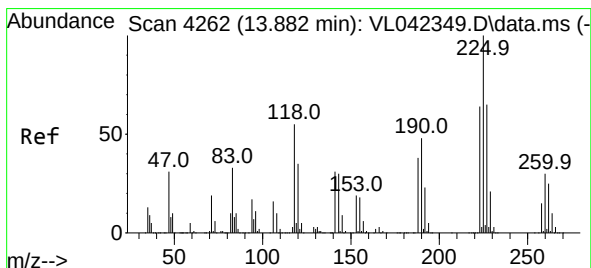
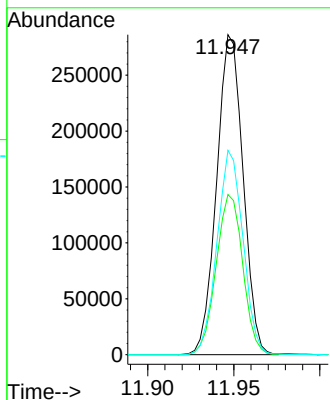
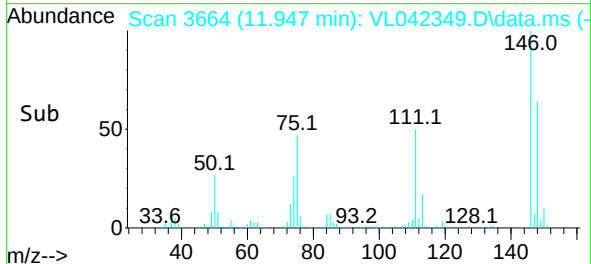
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



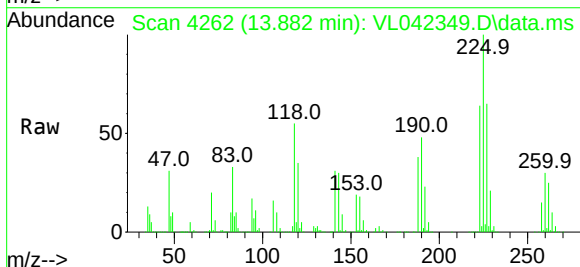
Tgt Ion:146 Resp: 30582
Ion Ratio Lower Upper
146 100
111 50.6 25.3 75.9
148 63.0 31.5 94.5

Manual Integrations
APPROVED

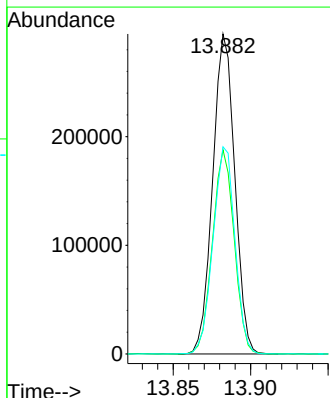
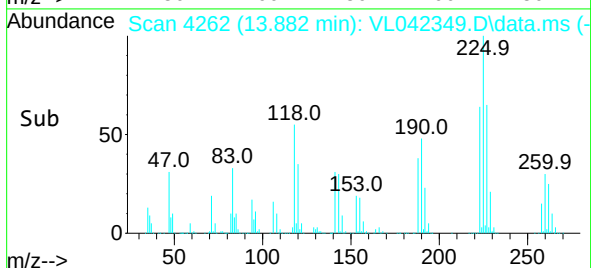
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

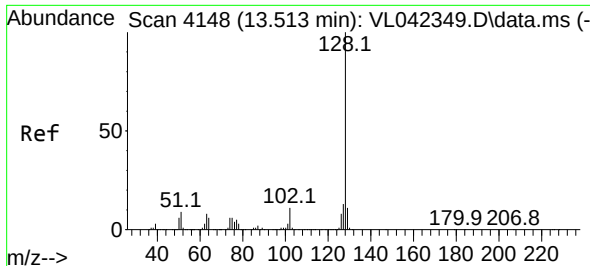


#78
Hexachloro-1,3-Butadiene
Concen: 8.346 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



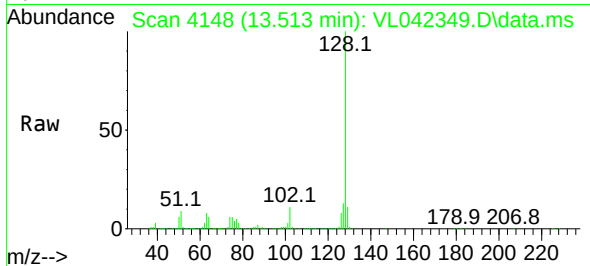
Tgt Ion:225 Resp: 291833
Ion Ratio Lower Upper
225 100
223 62.9 50.3 75.5
227 64.4 51.5 77.3





#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

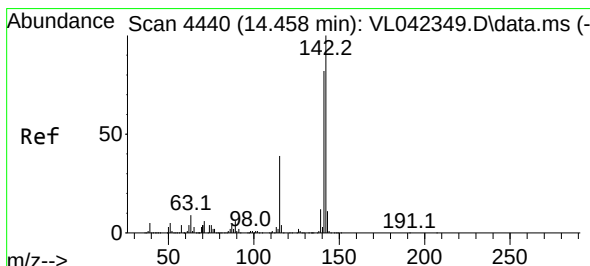
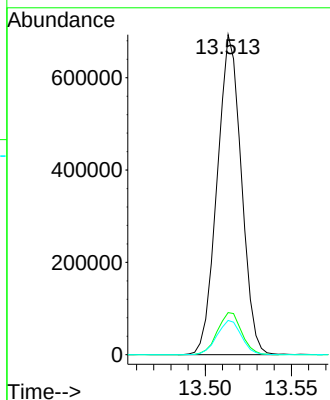
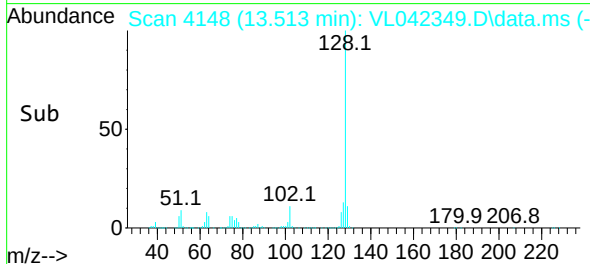
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010



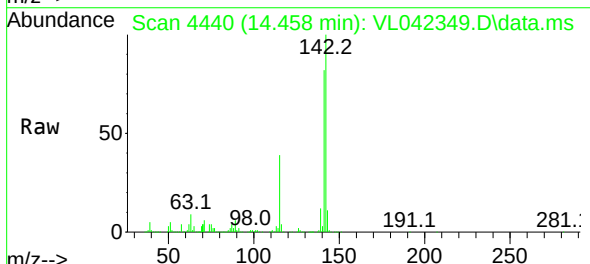
Tgt Ion:128 Resp: 677578
Ion Ratio Lower Upper
128 100
127 13.2 10.6 15.8
129 10.7 8.6 12.8

Manual Integrations
APPROVED

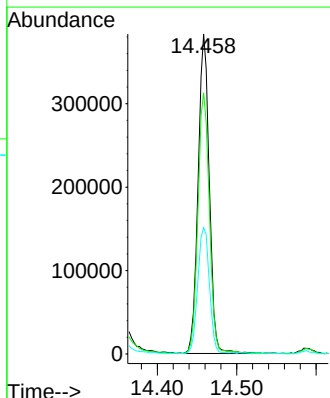
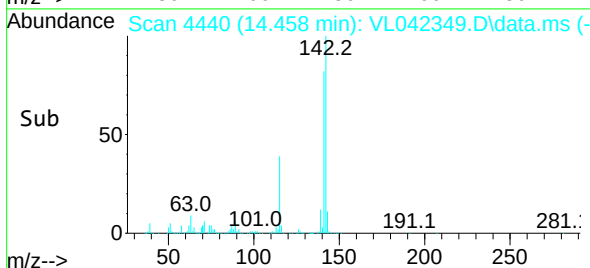
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

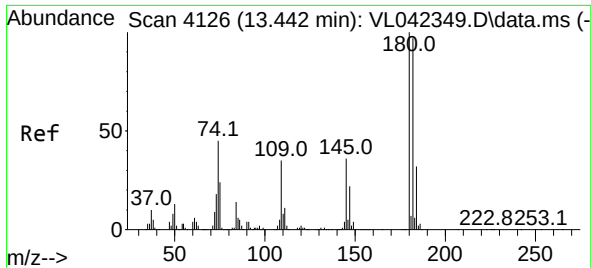


#80
Naphthalene,2-methyl-
Concen: 8.074 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44



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

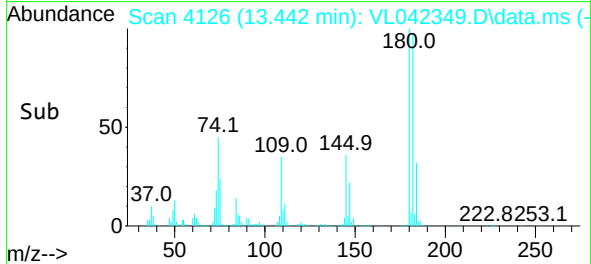
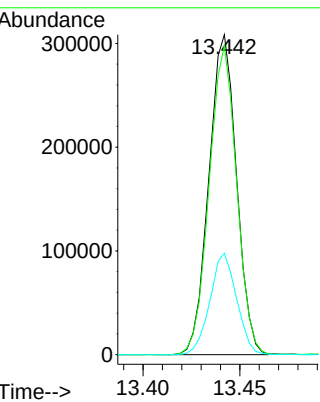
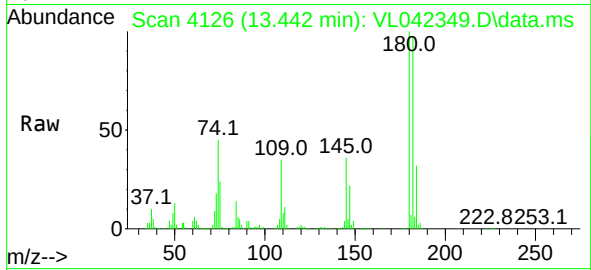
184 30.7 24.6 36.8

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

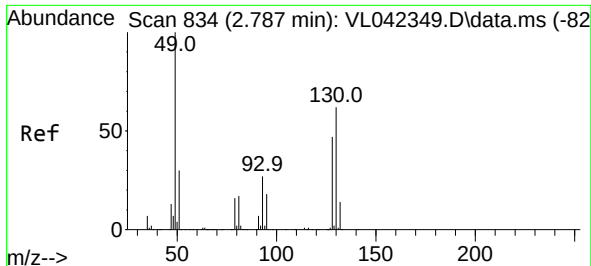
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Fri Apr 18 01:24:29 2025

Response via : Initial Calibration

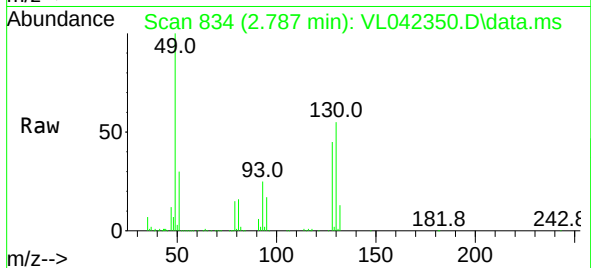
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.600	75	45327m	2.096	ppbv	
47) 1,1,2-Trichloroethane	6.590	97	29879	2.049	ppbv	88
48) Dibromochloromethane	7.389	129	53069	2.061	ppbv	100
49) Bromoform	9.483	173	48069	2.135	ppbv	97
50) 4-Methyl-2-Pentanone	5.758	43	102182	2.180	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

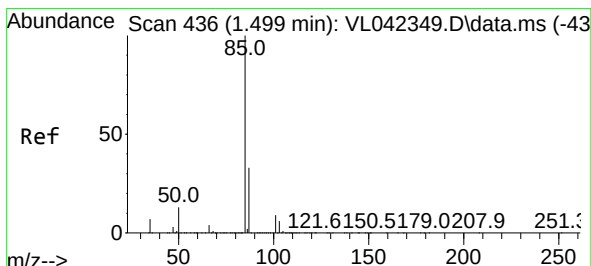
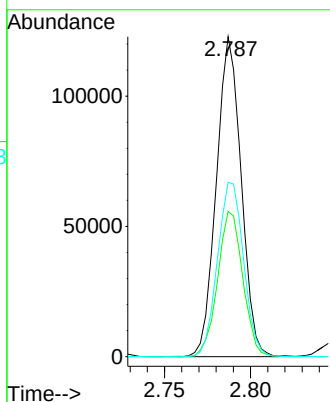
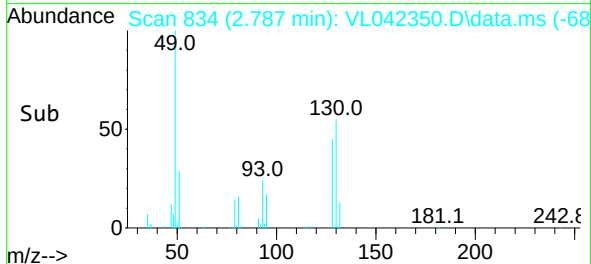
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



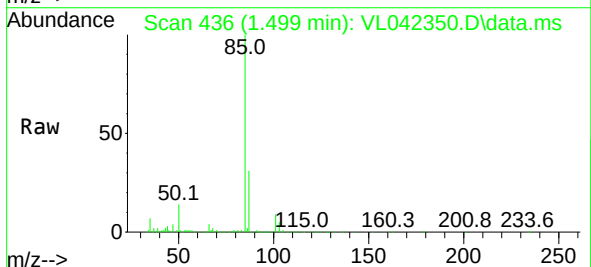
Tgt Ion: 49 Resp: 123200
Ion Ratio Lower Upper
49 100
128 46.2 22.8 68.4
130 57.3 29.3 88.0

Manual Integrations
APPROVED

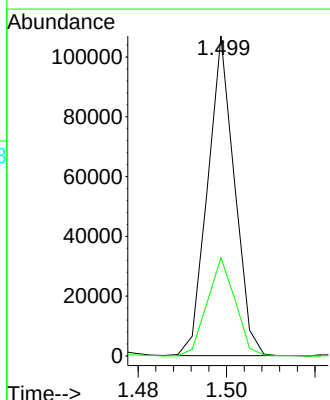
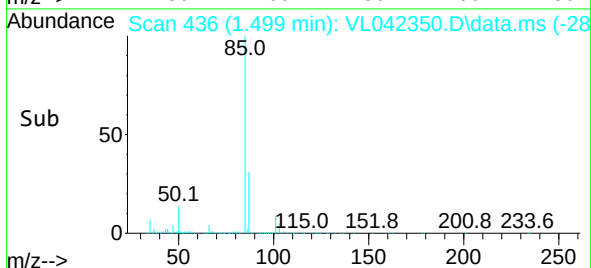
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

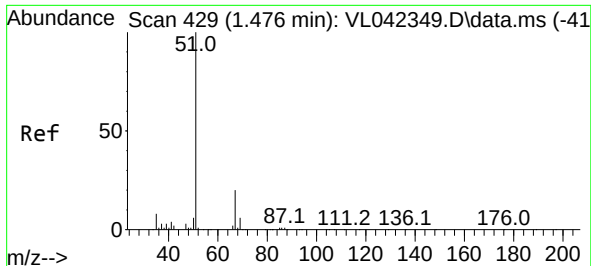


#2
Dichlorodifluoromethane
Concen: 2.068 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17



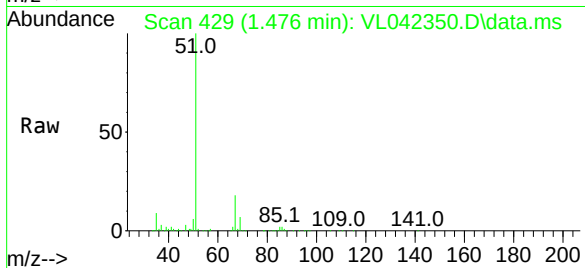
Tgt Ion: 85 Resp: 45008
Ion Ratio Lower Upper
85 100
87 30.6 26.6 39.8





#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

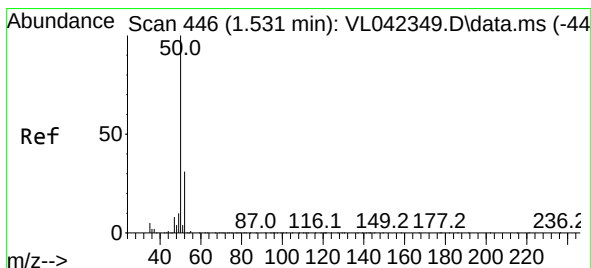
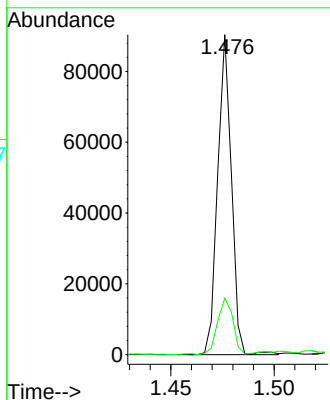
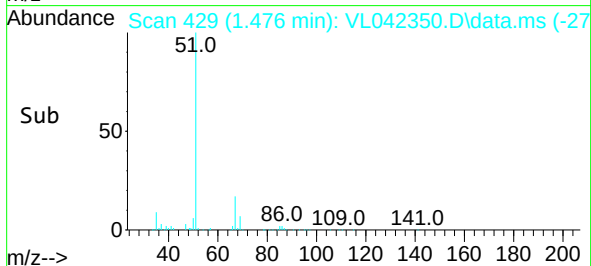
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



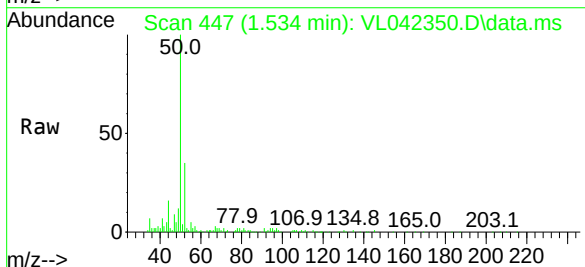
Tgt Ion: 51 Resp: 4185
Ion Ratio Lower Upper
51 100
67 21.7 16.2 24.4

Manual Integrations
APPROVED

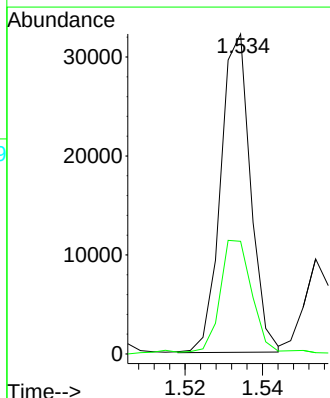
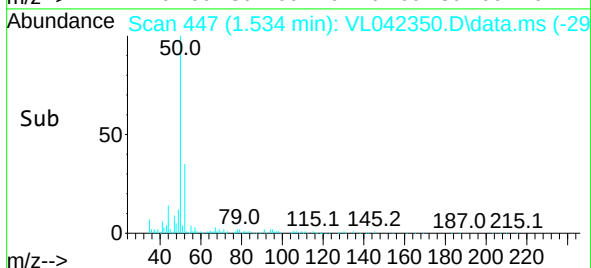
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

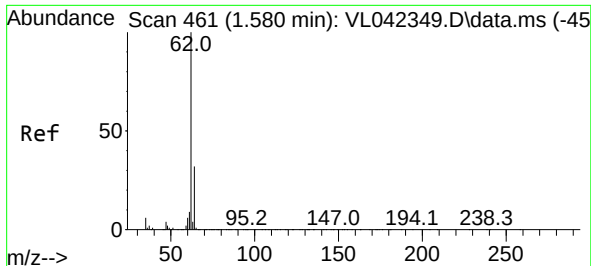


#4
Chloromethane
Concen: 2.005 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17



Tgt Ion: 50 Resp: 17272
Ion Ratio Lower Upper
50 100
52 34.9 24.7 37.1





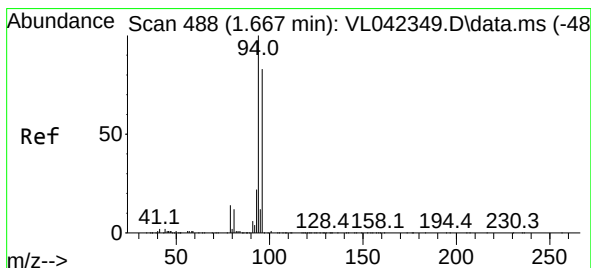
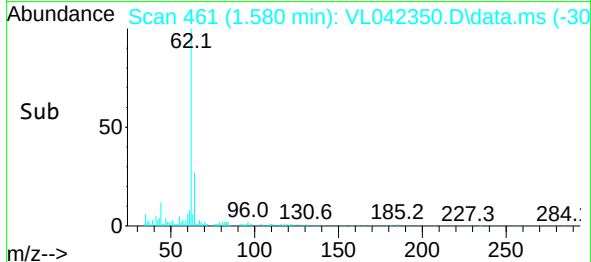
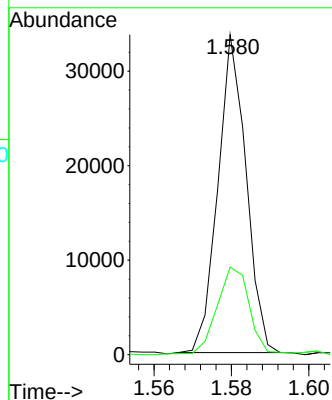
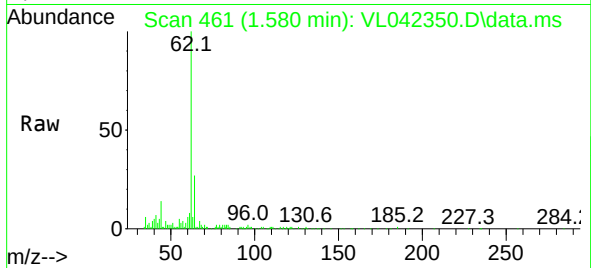
#5
 Vinyl Chloride
 Concen: 1.811 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. -0.000 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002

Tgt Ion: 62 Resp: 16979
 Ion Ratio Lower Upper
 62 100
 64 27.2 25.4 38.0

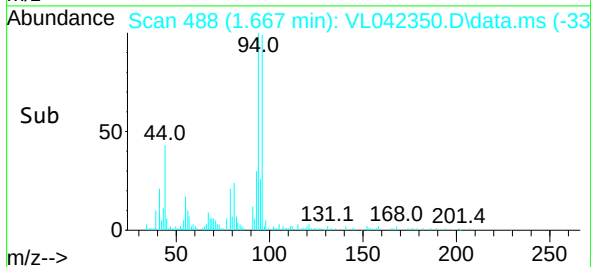
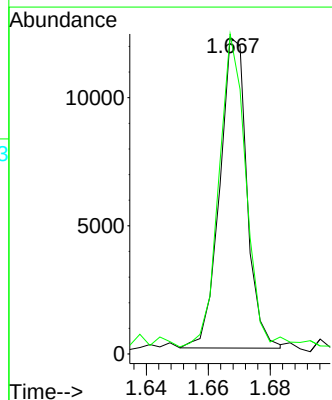
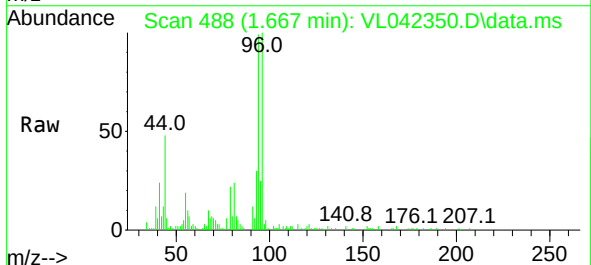
Manual Integrations
 APPROVED

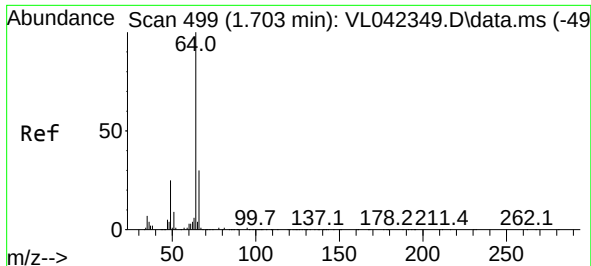
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#6
 Bromomethane
 Concen: 1.821 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#





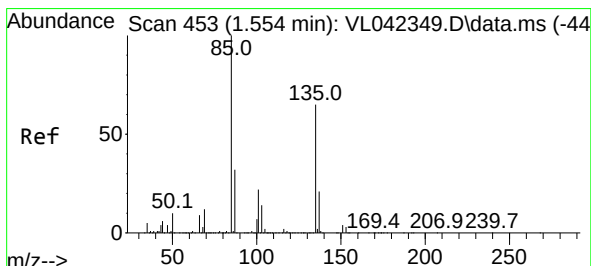
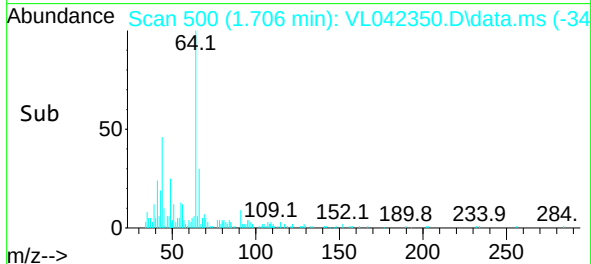
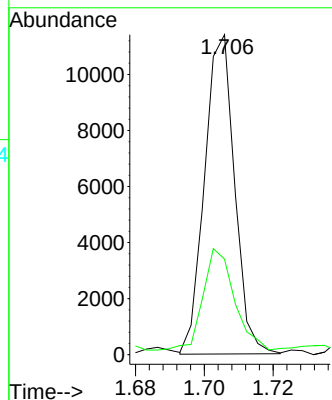
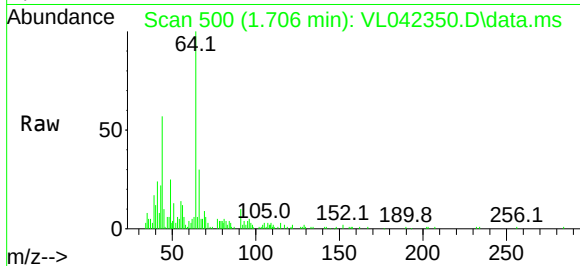
#7
Chloroethane
Concen: 2.031 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion: 64 Resp: 6889
Ion Ratio Lower Upper
64 100
66 29.8 24.6 37.0

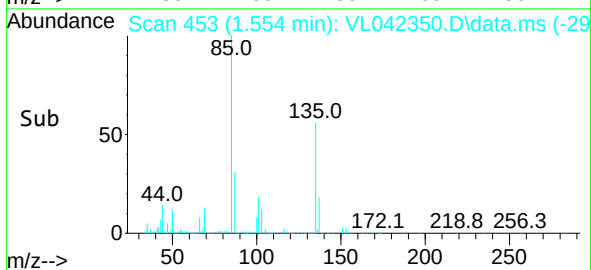
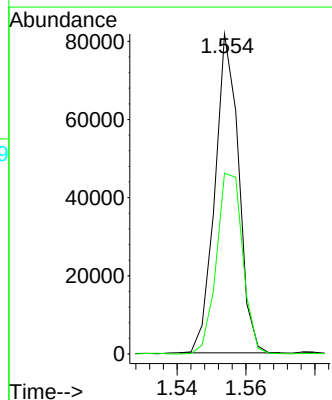
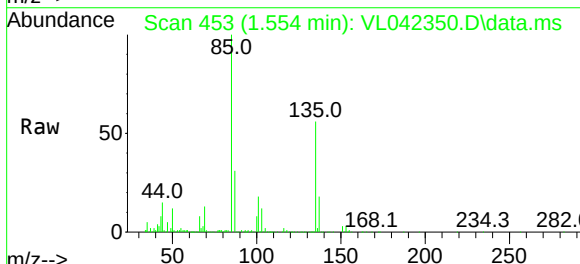
Manual Integrations
APPROVED

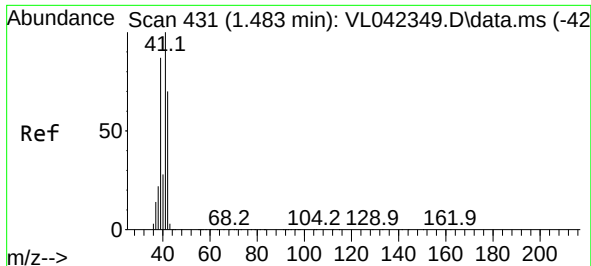
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

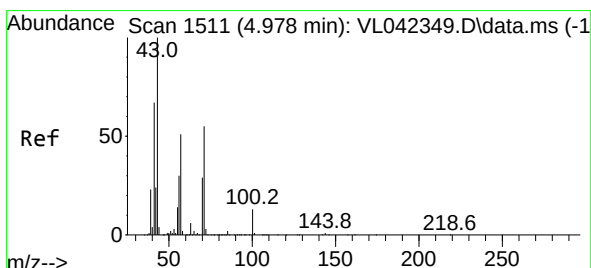
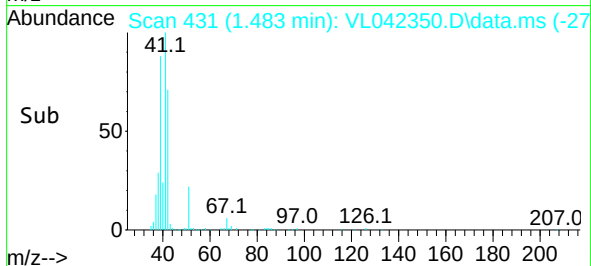
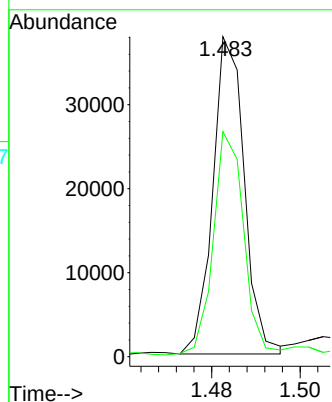
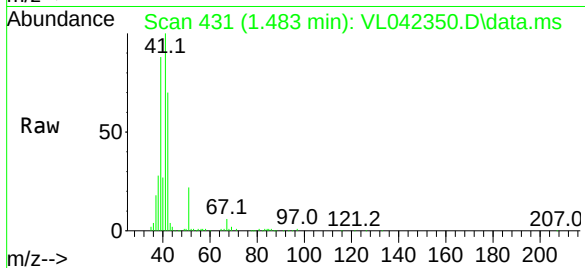
42 72.7 56.2 84.4

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

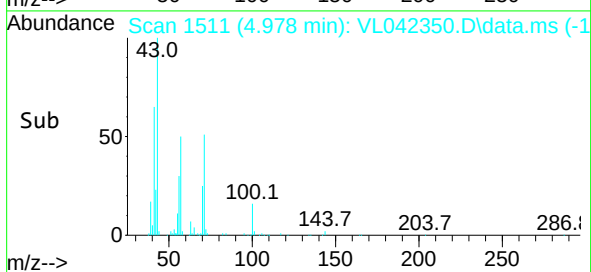
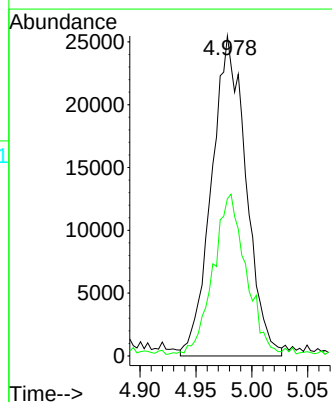
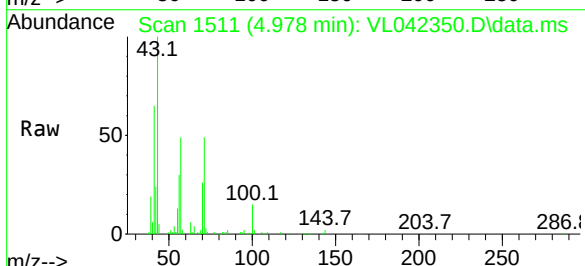
Acq: 17 Apr 2025 10:17

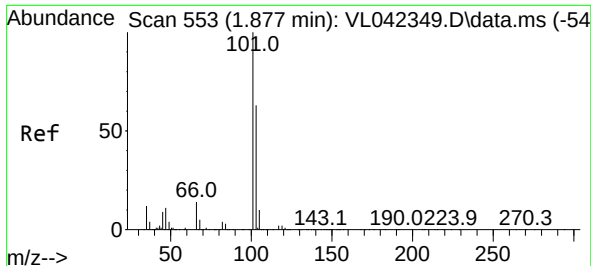
Tgt Ion: 43 Resp: 54438

Ion Ratio Lower Upper

43 100

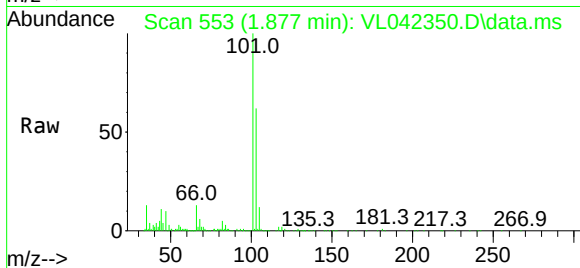
57 48.3 39.9 59.9





#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

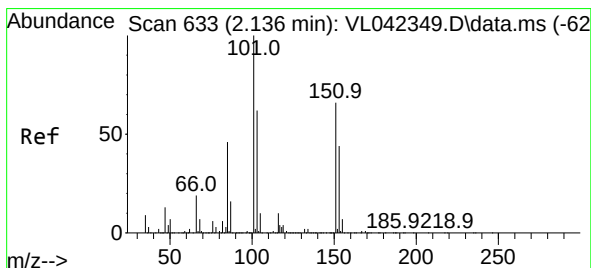
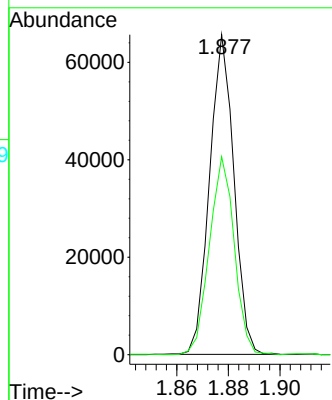
Instrument : MSVOA_L
ClientSampleId : VSTDIC002



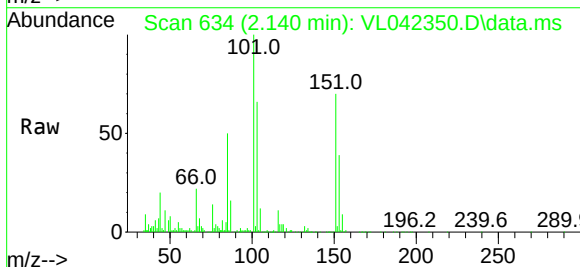
Tgt Ion:101 Resp: 43035
Ion Ratio Lower Upper
101 100
103 61.9 50.1 75.1

Manual Integrations
APPROVED

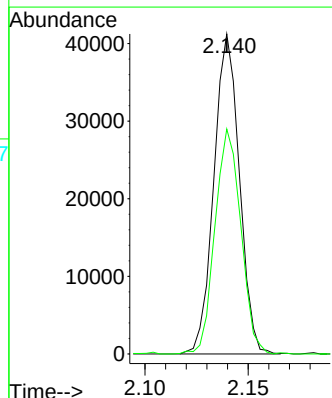
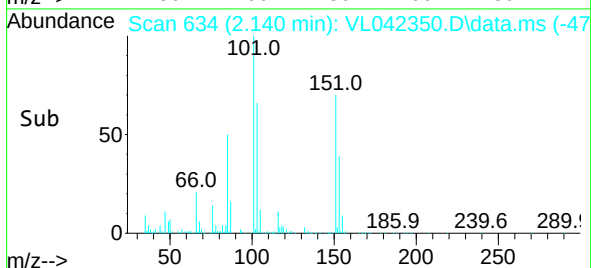
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

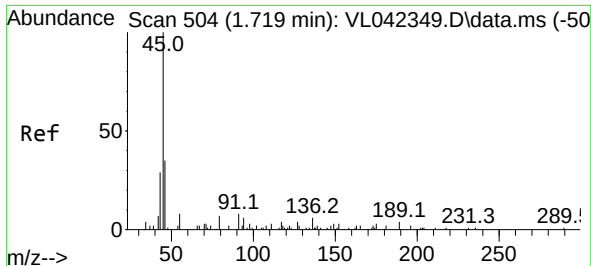


#12
1,1,2-Trichlorotrifluoroethane
Concen: 2.092 ppbv
RT: 2.140 min Scan# 634
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17



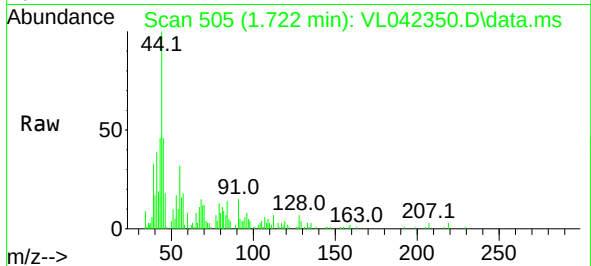
Tgt Ion:101 Resp: 35415
Ion Ratio Lower Upper
101 100
151 71.5 57.0 85.6





#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

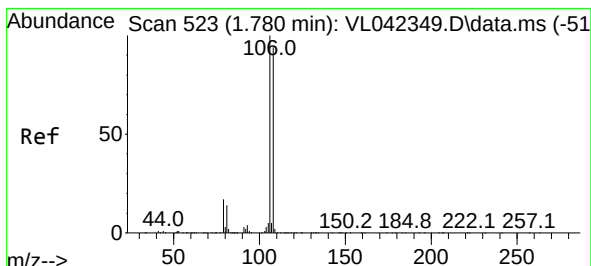
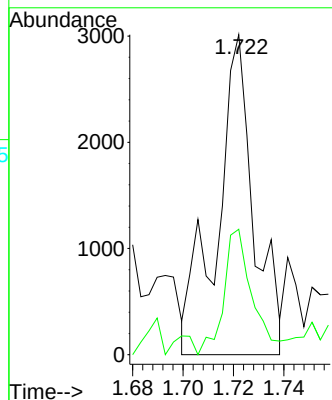
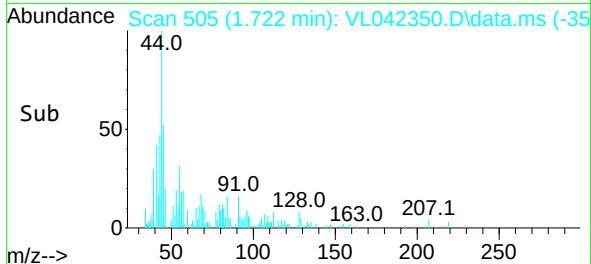
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



Tgt Ion: 45 Resp: 3034
Ion Ratio Lower Upper
45 100
46 39.3 21.9 87.7

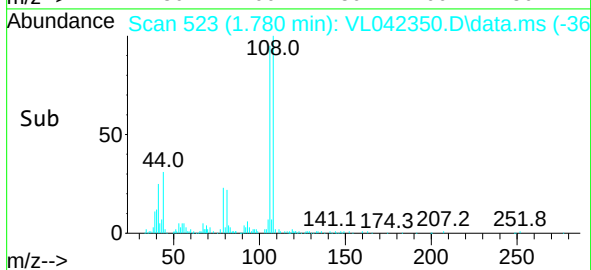
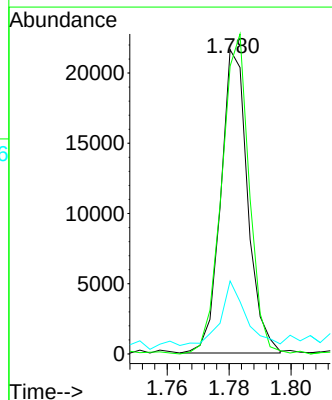
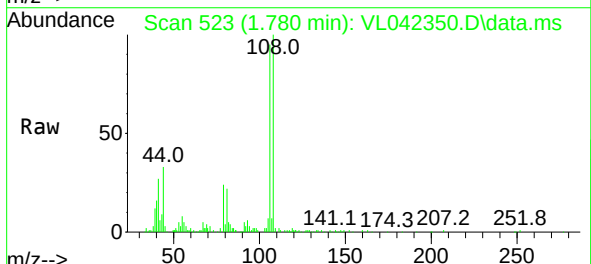
Manual Integrations
APPROVED

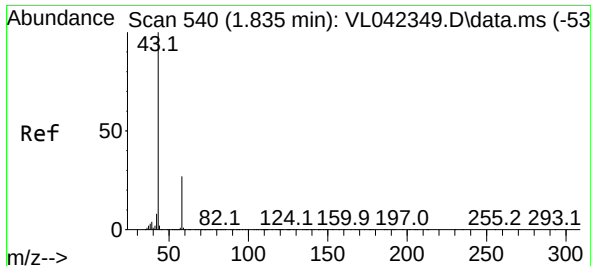
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

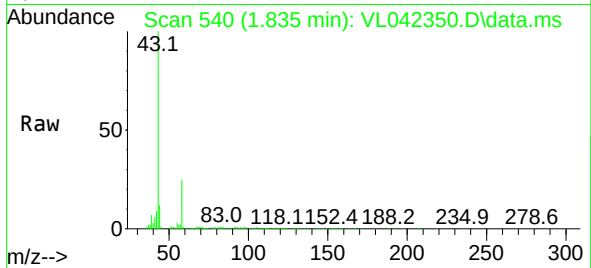
Tgt Ion:108 Resp: 13049
Ion Ratio Lower Upper
108 100
106 110.2 85.9 128.9
79 34.0 13.9 20.9#





#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

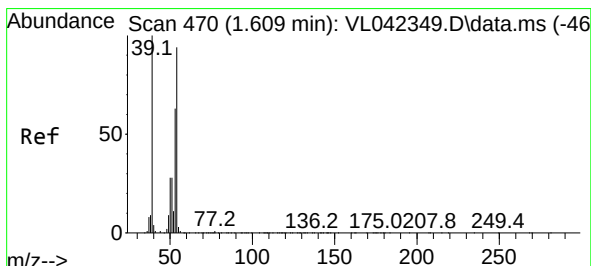
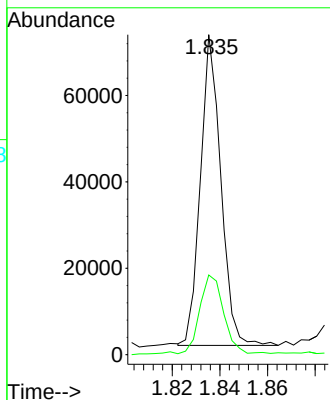
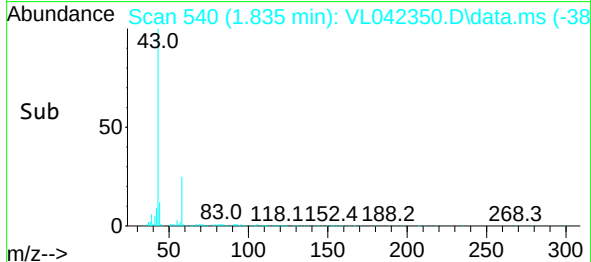
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



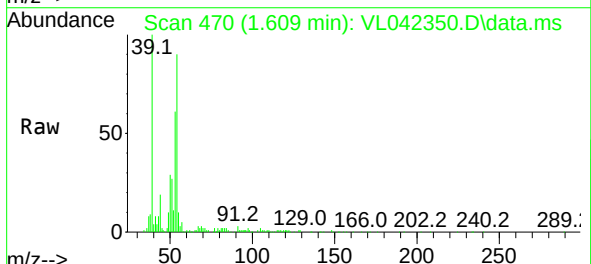
Tgt Ion: 43 Resp: 42949
Ion Ratio Lower Upper
43 100
58 31.4 22.4 33.6

Manual Integrations
APPROVED

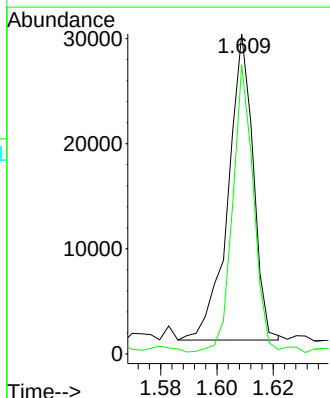
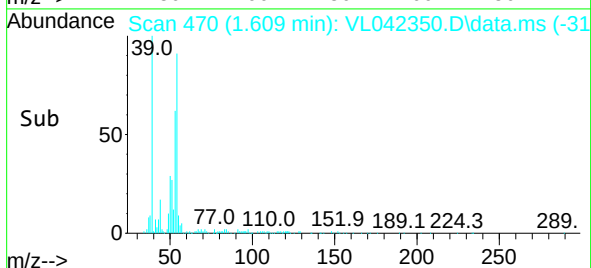
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

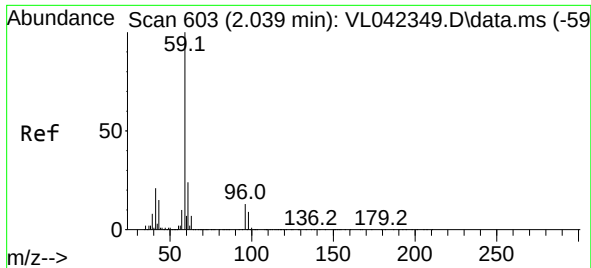


#16
1,3-Butadiene
Concen: 1.912 ppbv
RT: 1.609 min Scan# 470
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17



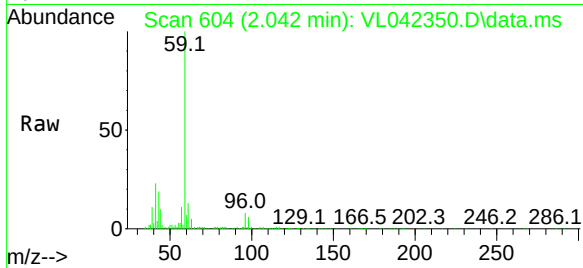
Tgt Ion: 39 Resp: 18110
Ion Ratio Lower Upper
39 100
54 77.2 64.9 97.3





#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

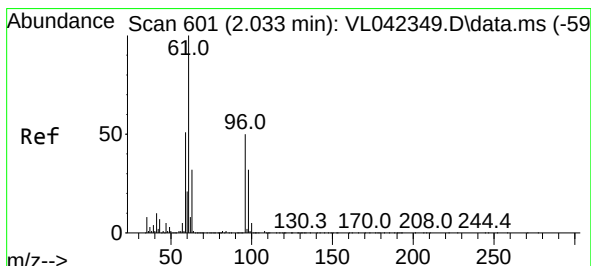
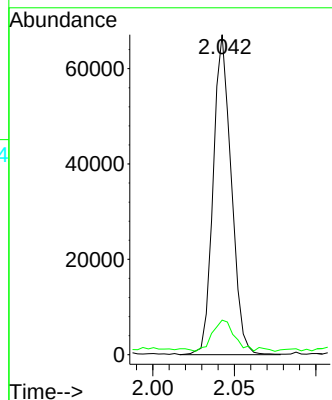
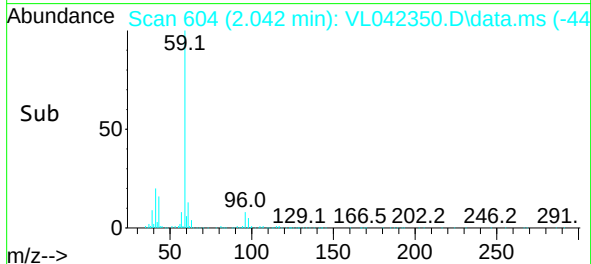
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



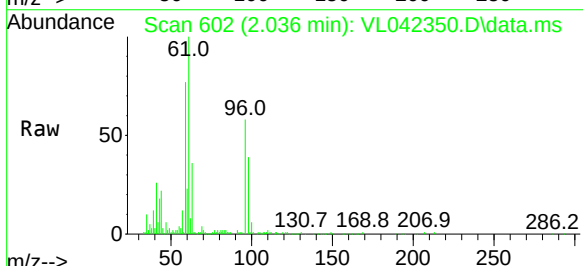
Tgt Ion: 59 Resp: 51829
Ion Ratio Lower Upper
59 100
57 13.2 8.7 13.1

Manual Integrations
APPROVED

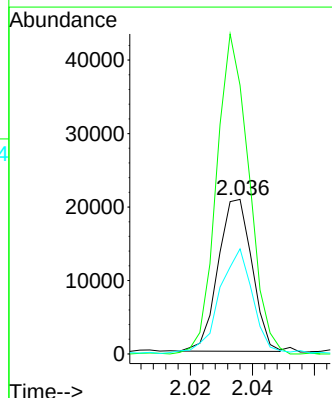
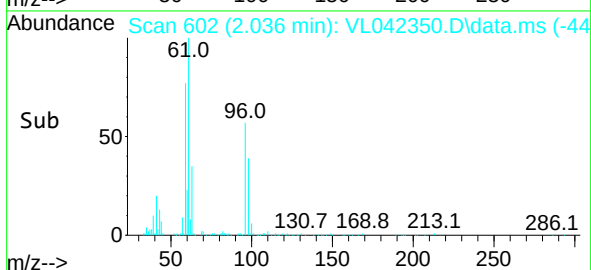
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

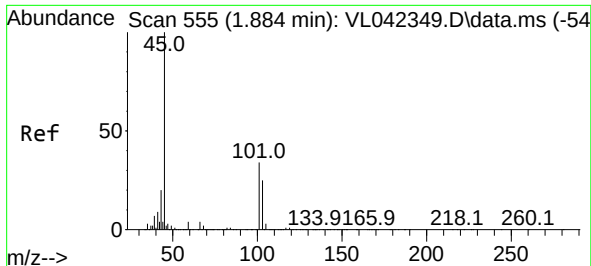


#18
1,1-Dichloroethene
Concen: 1.928 ppbv
RT: 2.036 min Scan# 602
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17



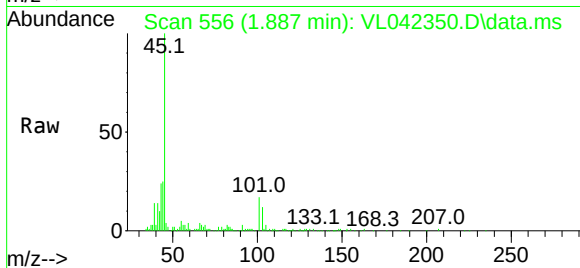
Tgt Ion: 96 Resp: 15690
Ion Ratio Lower Upper
96 100
61 176.1 160.2 240.2
98 67.2 51.0 76.4





#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

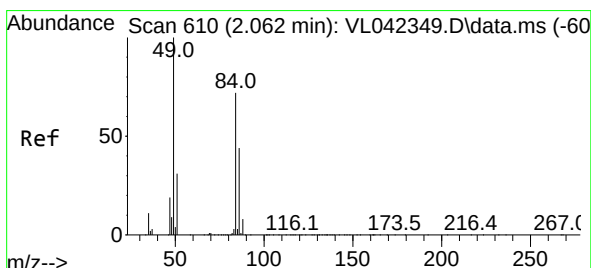
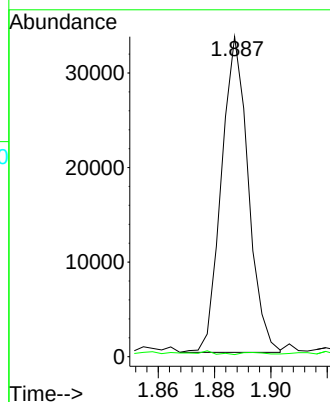
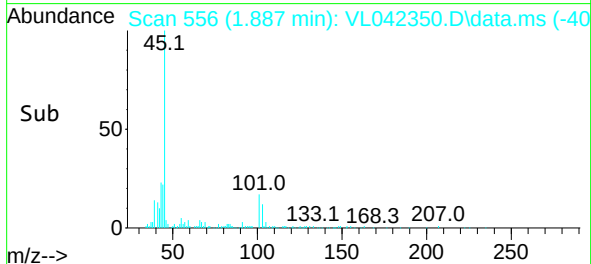
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



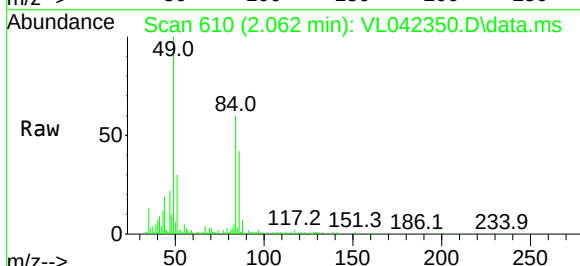
Tgt Ion: 45 Resp: 22100
Ion Ratio Lower Upper
45 100
58 3.6 34.5 51.7

Manual Integrations
APPROVED

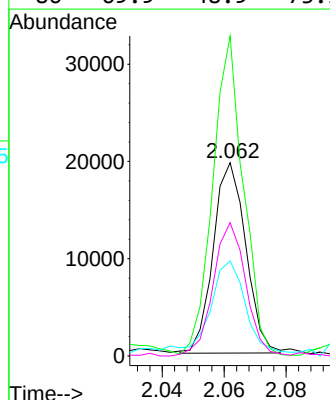
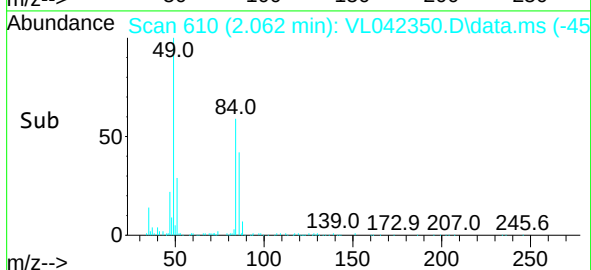
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

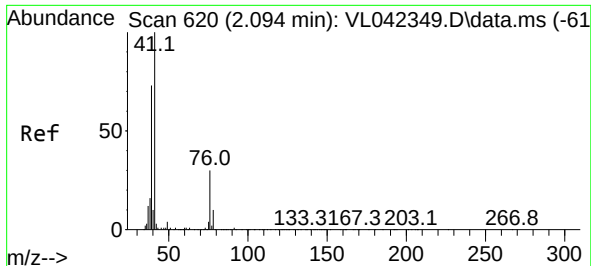


#20
Methylene Chloride
Concen: 1.814 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17



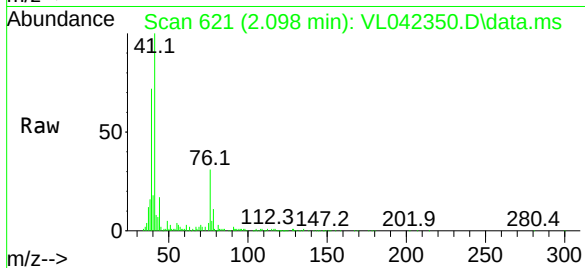
Tgt Ion: 84 Resp: 14329
Ion Ratio Lower Upper
84 100
49 169.1 111.6 167.4#
51 47.9 35.1 52.7
86 69.9 48.9 73.3





#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

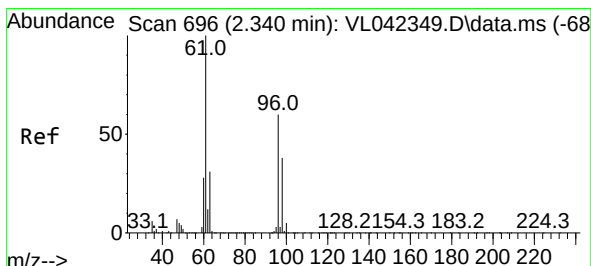
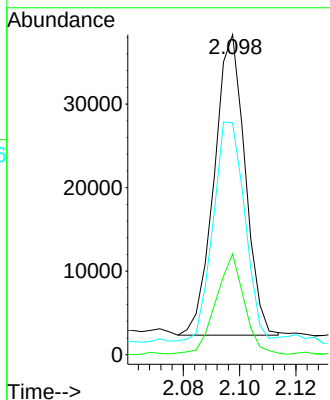
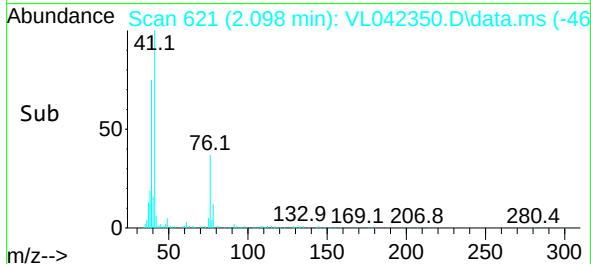
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002



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

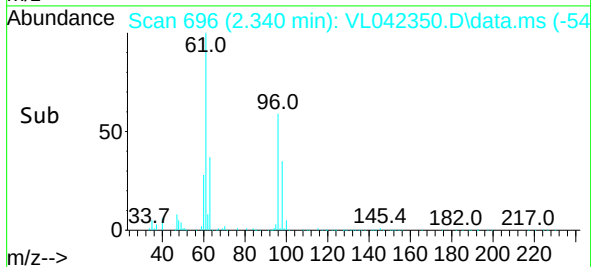
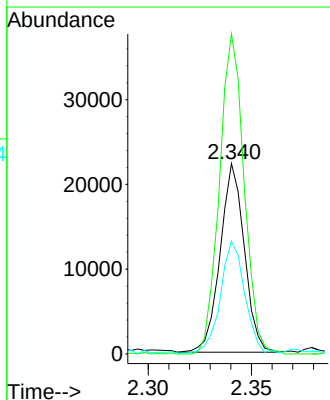
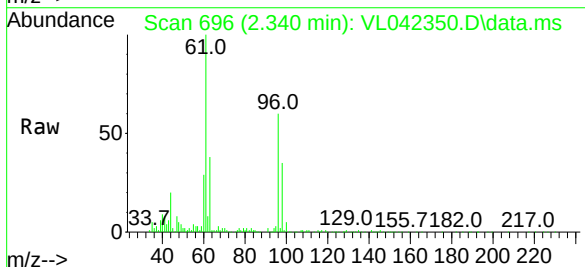
Manual Integrations
 APPROVED

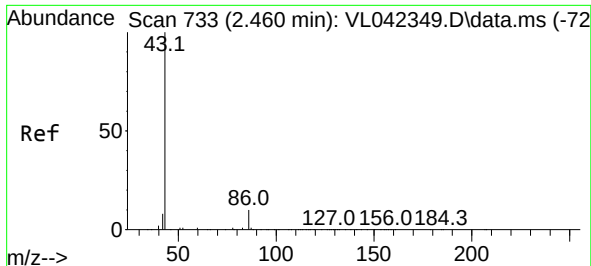
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#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 :

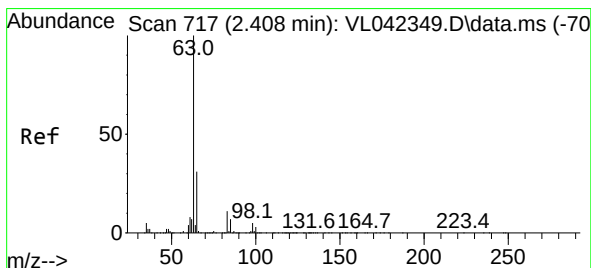
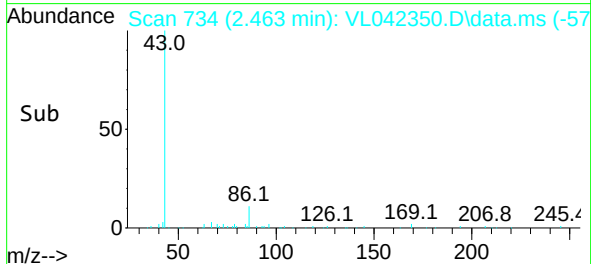
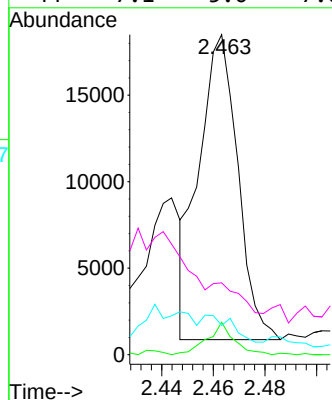
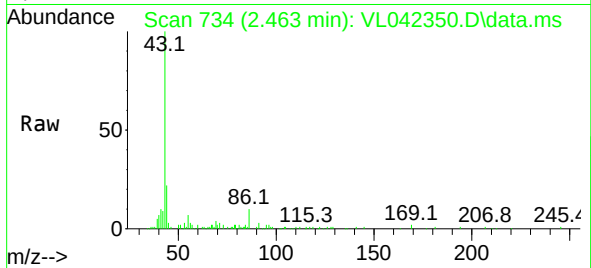
VSTDICC002

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

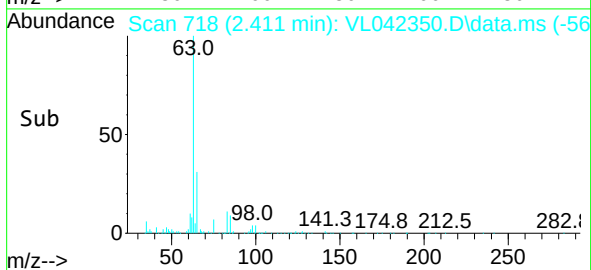
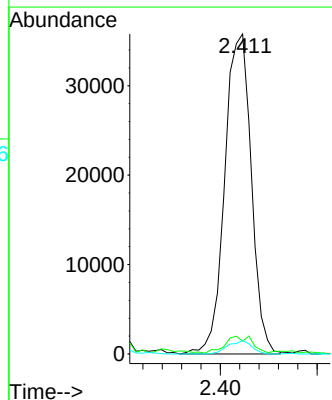
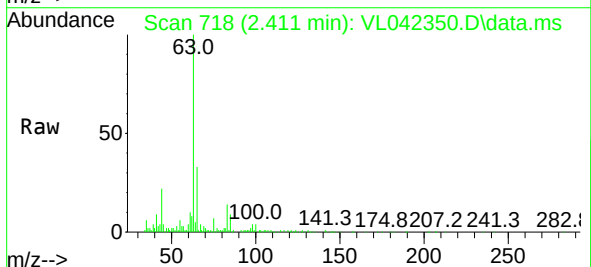
APPROVED

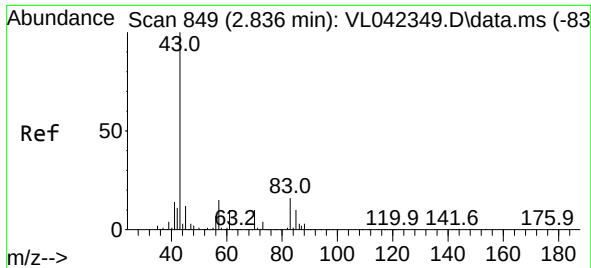
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#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

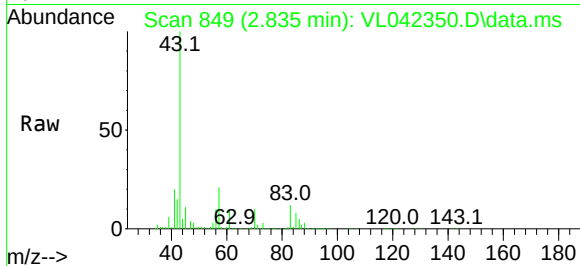
Tgt Ion: 63 Resp: 34077
 Ion Ratio Lower Upper
 63 100
 98 3.1 2.3 6.8
 100 4.2 1.6 4.8





#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

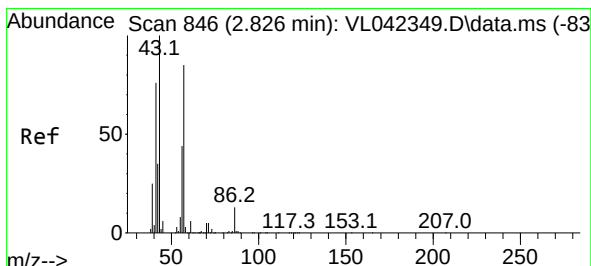
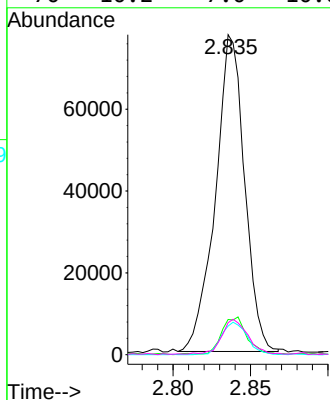
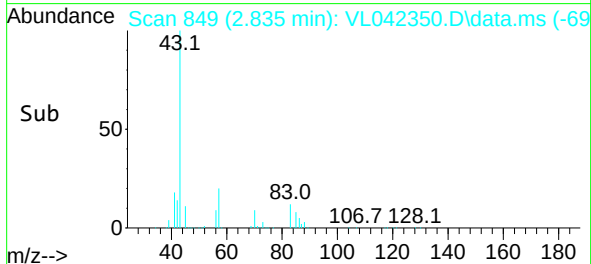
Instrument : MSVOA_L
ClientSampleId : VSTDICC002



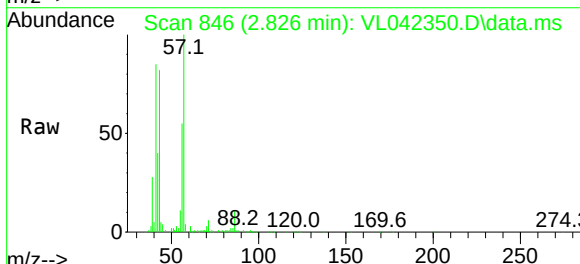
Tgt Ion: 43 Resp: 10146
Ion Ratio Lower Upper
43 100
45 10.4 8.3 12.5
61 9.2 7.3 10.9
70 10.2 7.0 10.6

Manual Integrations
APPROVED

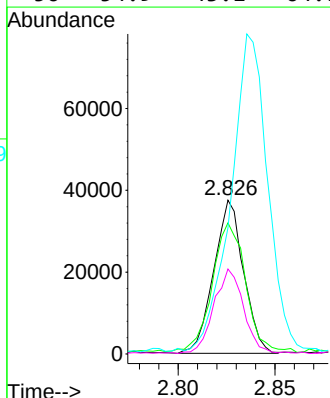
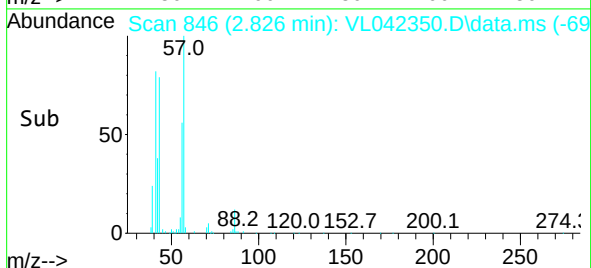
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

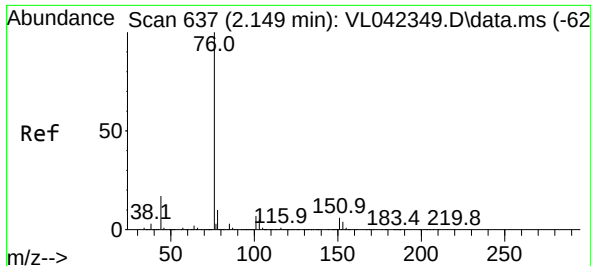


#26
Hexane
Concen: 1.990 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17



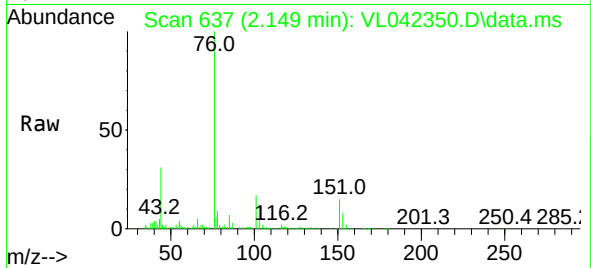
Tgt Ion: 57 Resp: 40046
Ion Ratio Lower Upper
57 100
41 94.1 77.9 116.9
43 260.7 208.4 312.6
56 54.9 43.1 64.7





#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

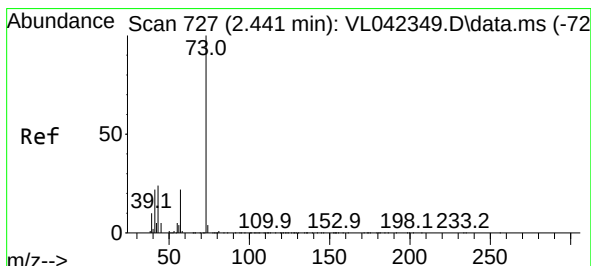
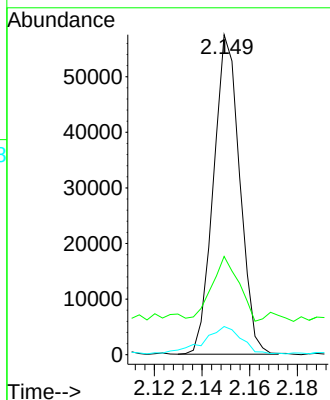
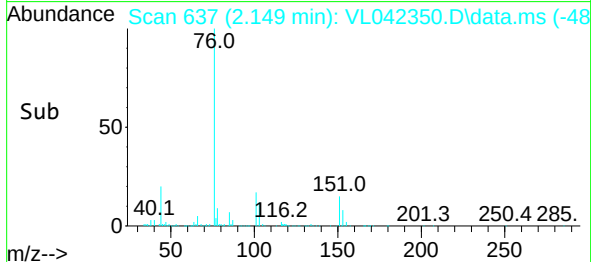
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



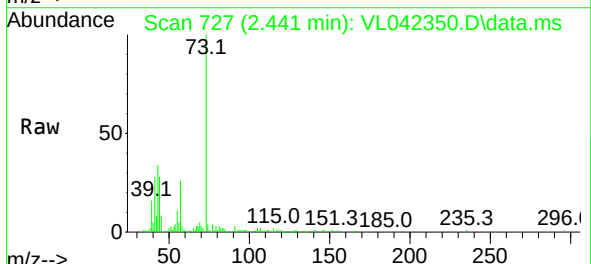
Tgt Ion: 76 Resp: 43975
Ion Ratio Lower Upper
76 100
44 44.3 15.5 23.3
78 13.6 9.3 13.9

Manual Integrations
APPROVED

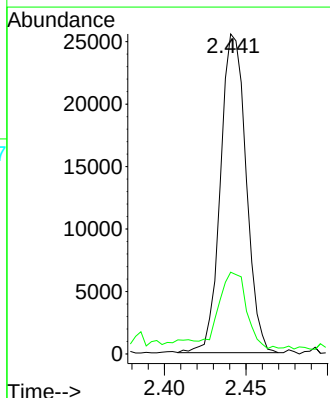
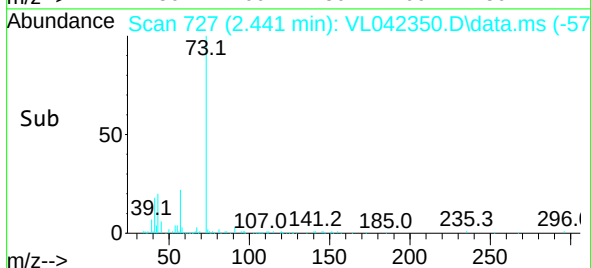
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

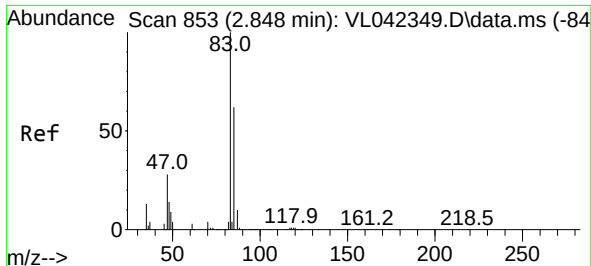


#28
Methyl tert-Butyl Ether
Concen: 2.116 ppbv
RT: 2.441 min Scan# 727
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17



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

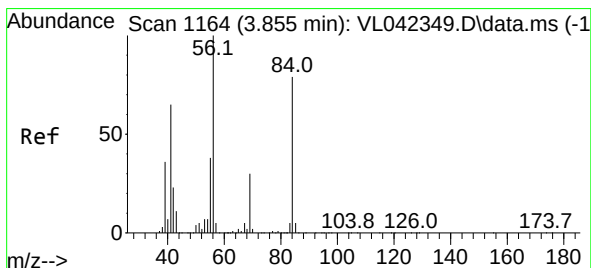
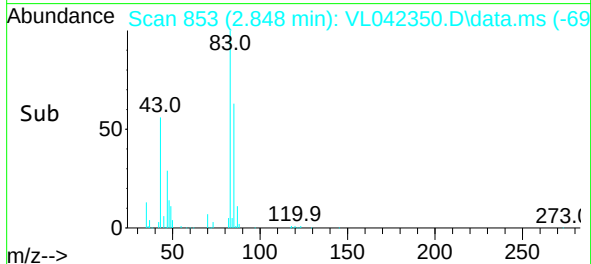
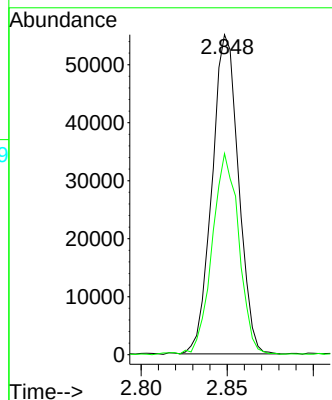
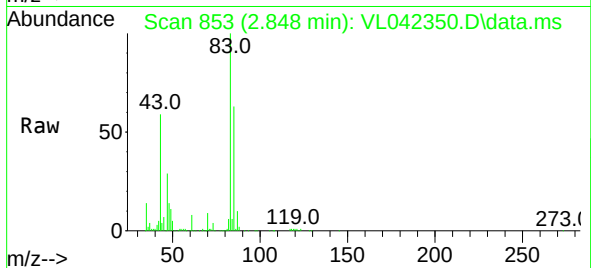
85 62.9 50.0 75.0

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

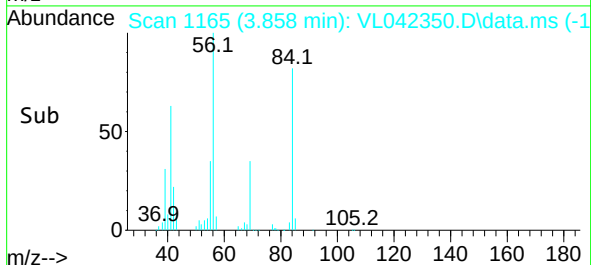
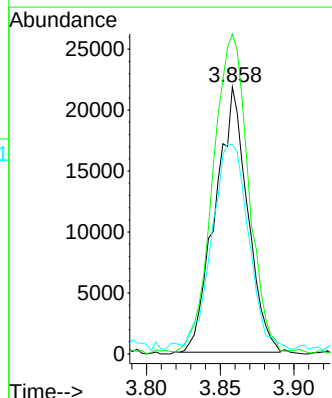
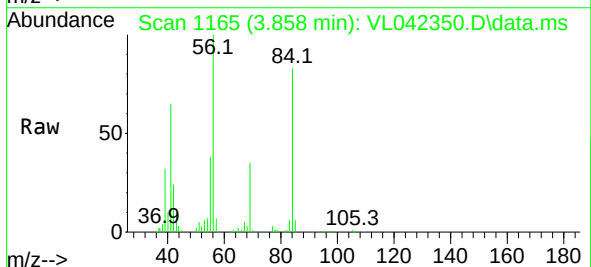
Tgt Ion: 84 Resp: 33195

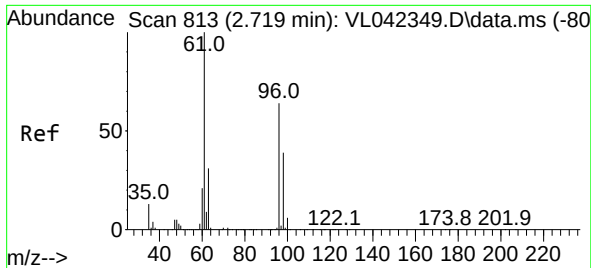
Ion Ratio Lower Upper

84 100

56 134.5 101.0 151.4

41 88.1 67.4 101.0





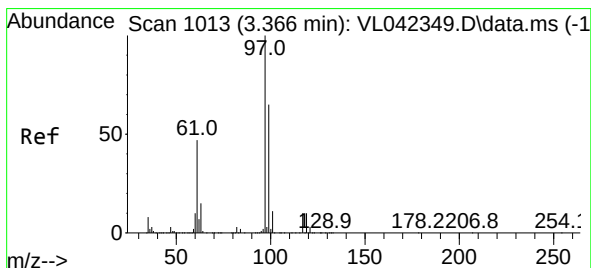
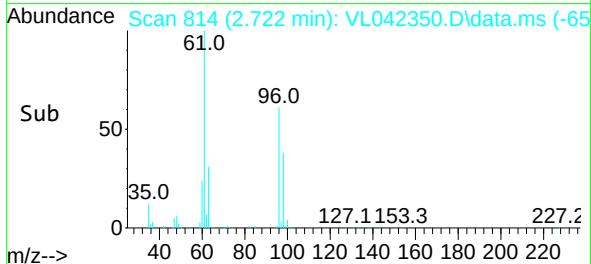
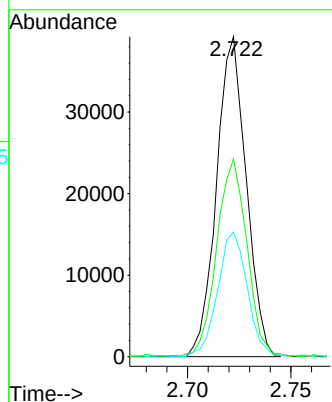
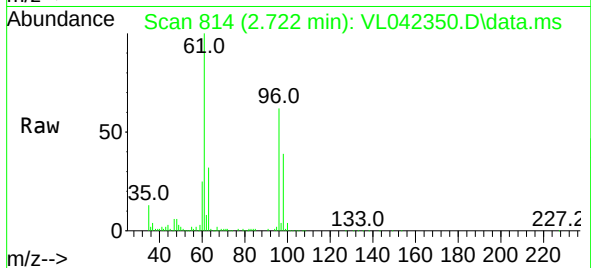
#31
 cis-1,2-Dichloroethene
 Concen: 2.051 ppbv
 RT: 2.722 min Scan# 813
 Delta R.T. 0.003 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

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

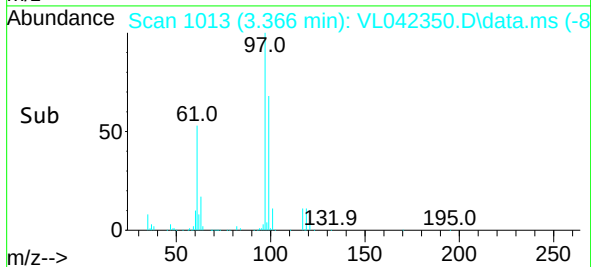
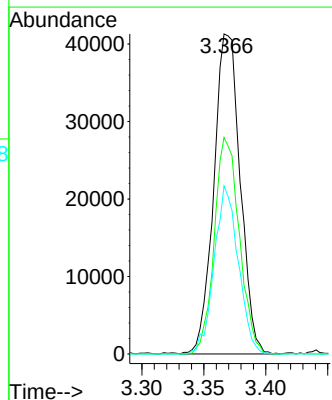
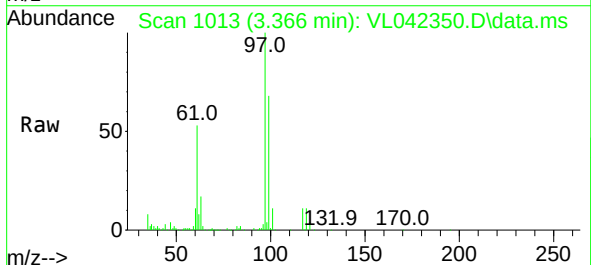
Manual Integrations
 APPROVED

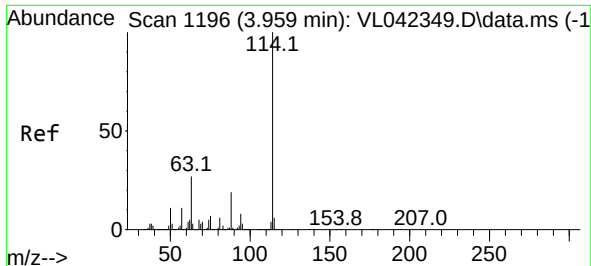
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#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

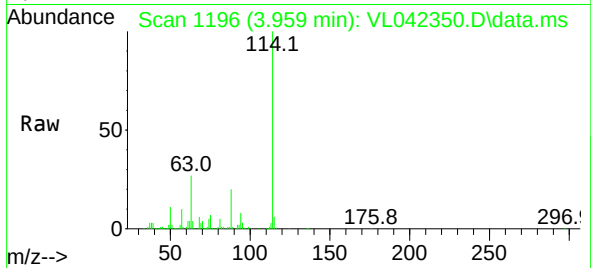
Tgt Ion: 97 Resp: 61442
 Ion Ratio Lower Upper
 97 100
 99 64.0 51.0 76.4
 61 48.0 38.8 58.2





#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

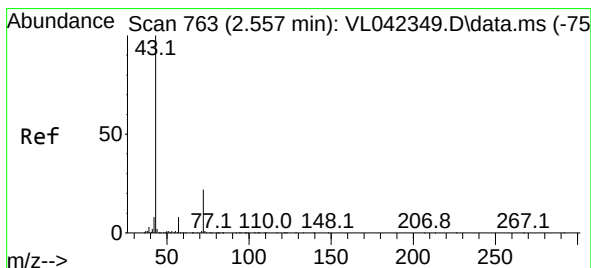
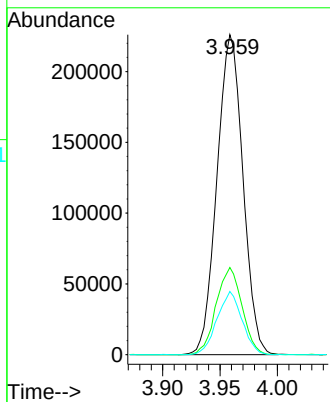
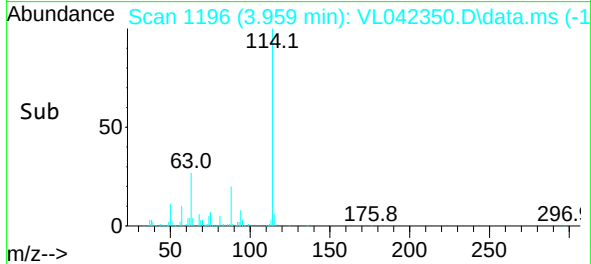
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



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

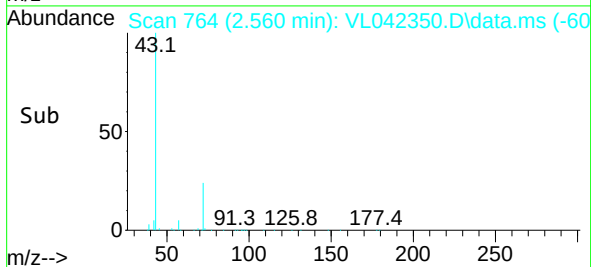
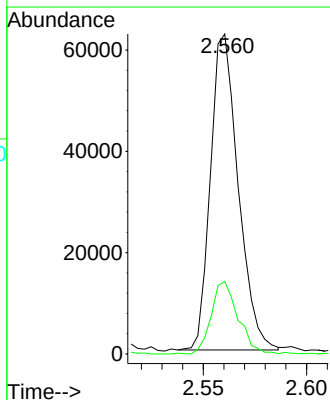
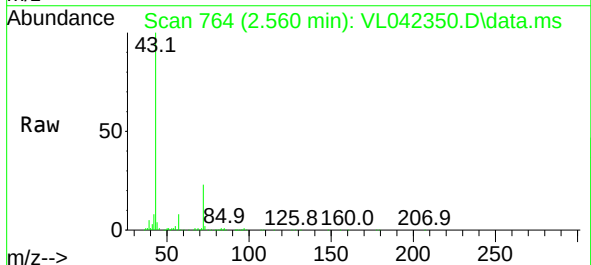
Manual Integrations
APPROVED

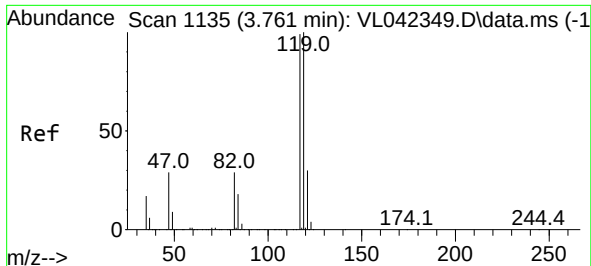
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

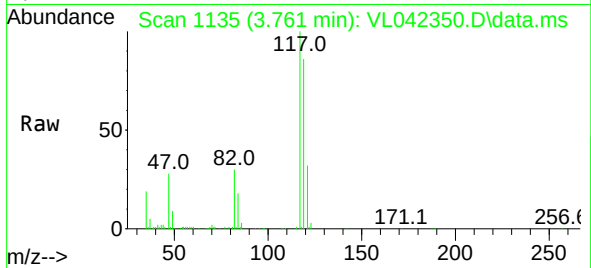
Tgt Ion: 43 Resp: 58249
Ion Ratio Lower Upper
43 100
72 22.5 18.2 27.2





#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

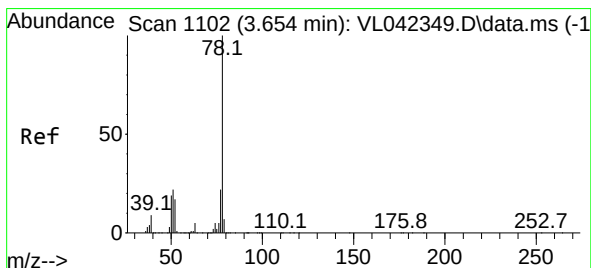
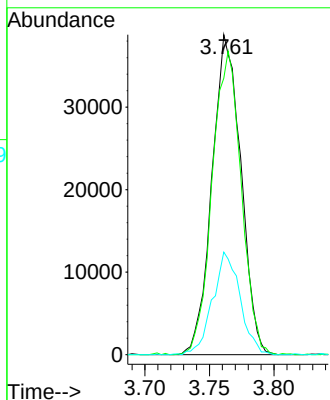
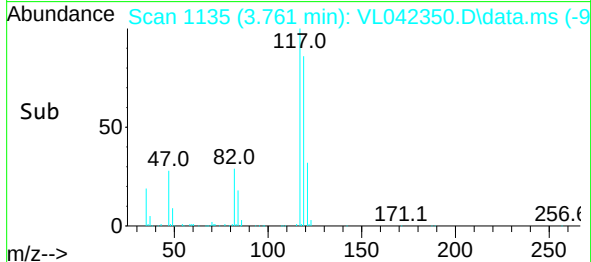
Instrument : MSVOA_L
ClientSampleId : VSTDIC002



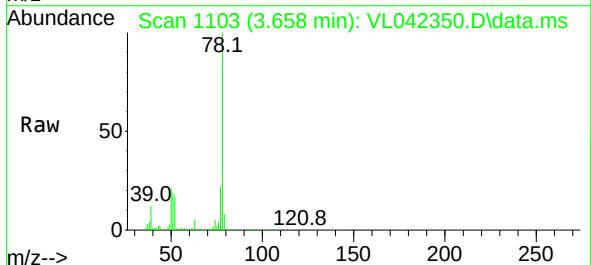
Tgt Ion: 117 Resp: 6029
Ion Ratio Lower Upper
117 100
119 86.4 80.5 120.7
121 32.1 24.2 36.2

Manual Integrations
APPROVED

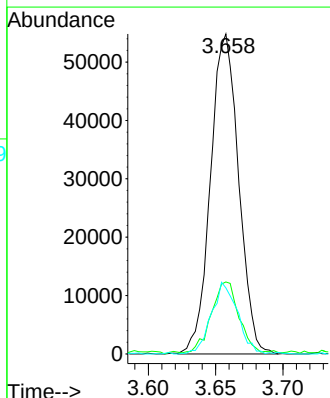
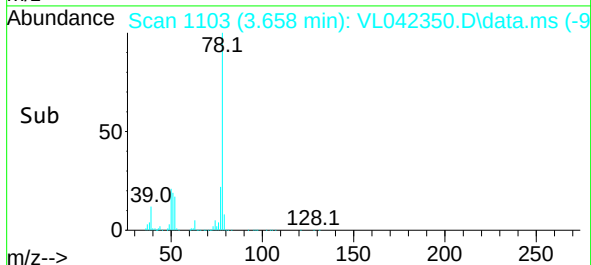
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

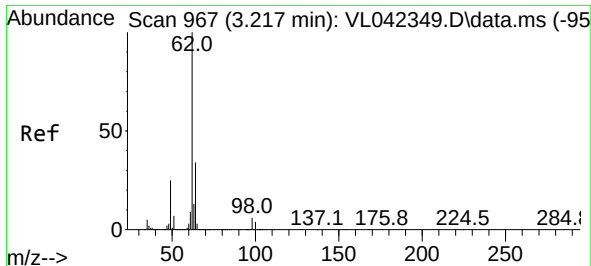


#36
Benzene
Concen: 2.079 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17



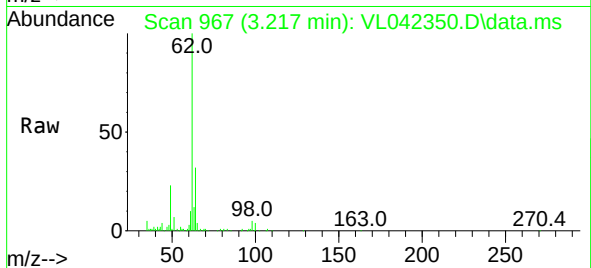
Tgt Ion: 78 Resp: 79814
Ion Ratio Lower Upper
78 100
77 22.0 17.4 26.0
50 20.6 15.5 23.3





#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

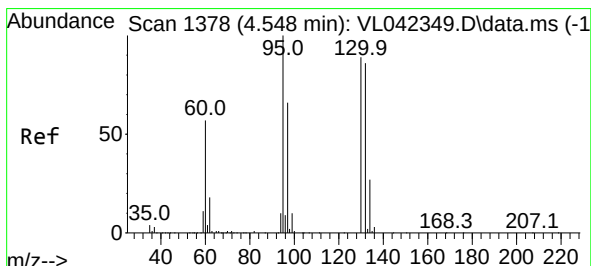
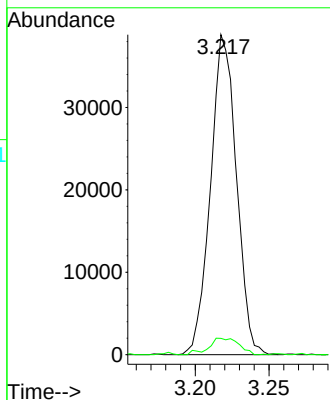
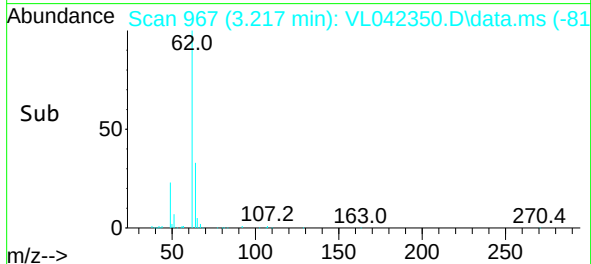
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



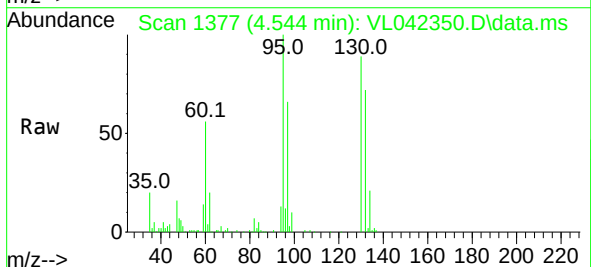
Tgt Ion: 62 Resp: 47398
Ion Ratio Lower Upper
62 100
98 6.4 5.1 7.7

Manual Integrations
APPROVED

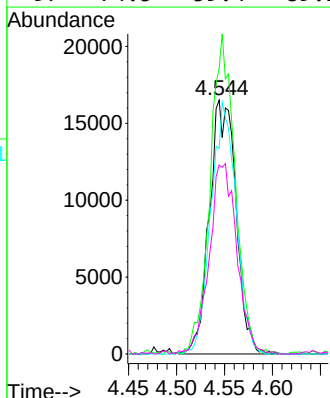
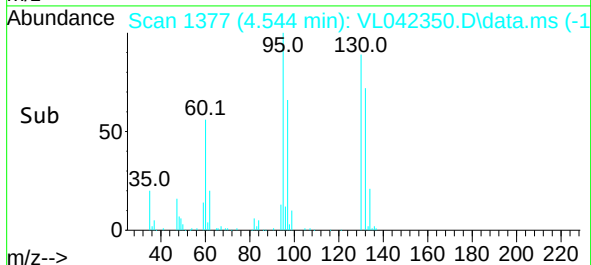
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

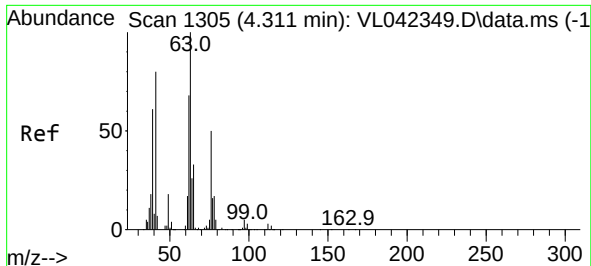


#38
Trichloroethene
Concen: 1.891 ppbv m
RT: 4.544 min Scan# 1377
Delta R.T. -0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17



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

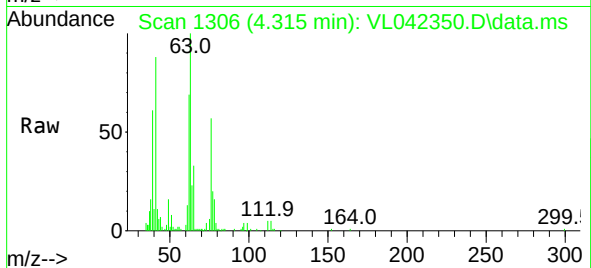
Acq: 17 Apr 2025 10:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002



Tgt Ion: 63 Resp: 28800

Ion Ratio Lower Upper

63 100

41 85.2 64.2 96.2

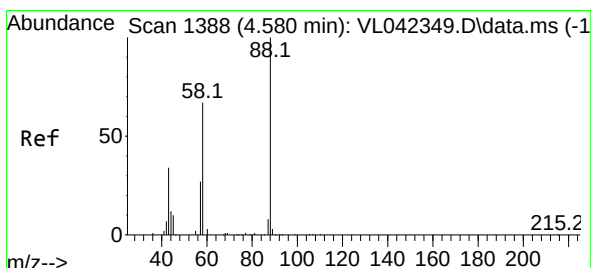
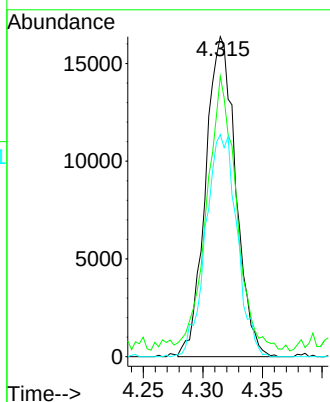
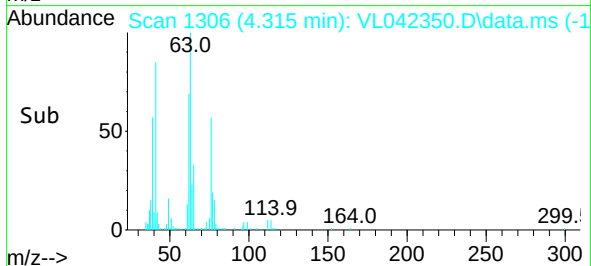
62 69.4 54.3 81.5

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

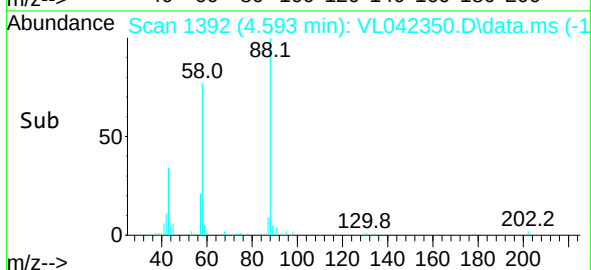
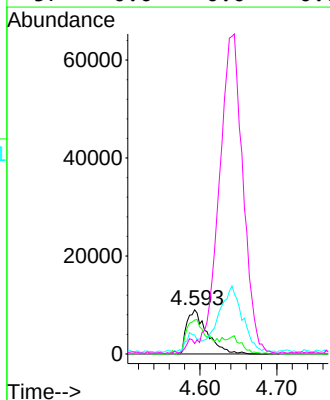
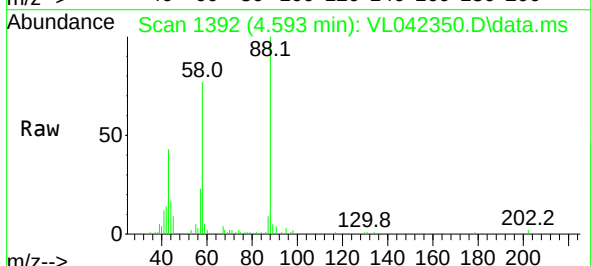
Ion Ratio Lower Upper

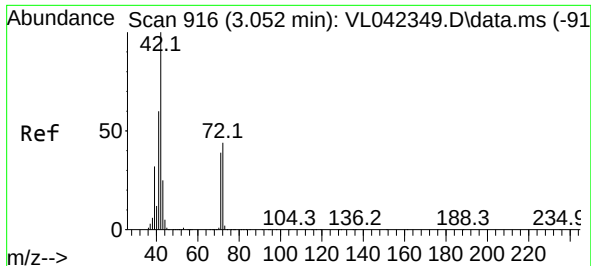
88 100

58 82.3 61.4 92.0

43 6.1 23.2 34.8#

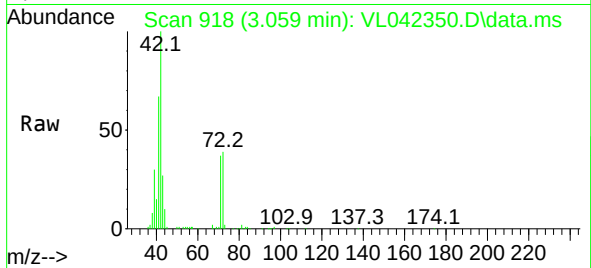
57 0.0 0.0 0.0





#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

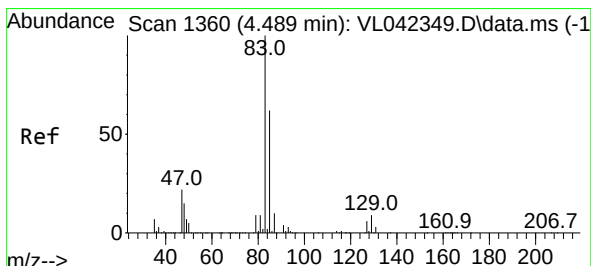
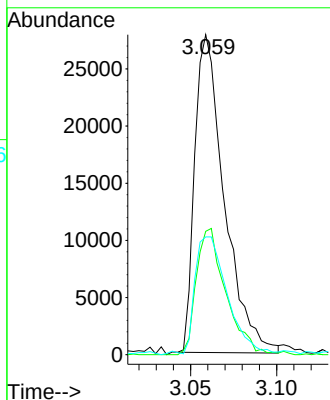
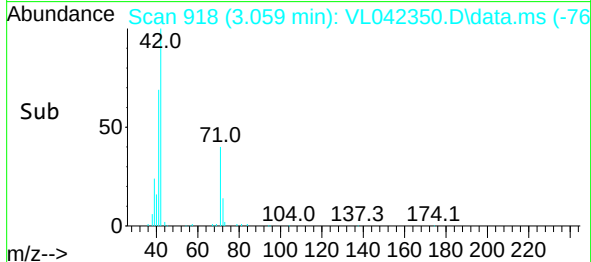
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



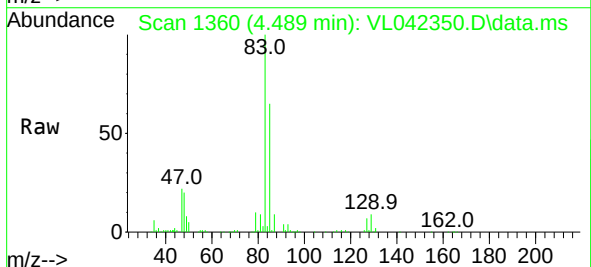
Tgt Ion: 42 Resp: 33298
Ion Ratio Lower Upper
42 100
72 39.9 32.3 48.5
71 41.5 31.4 47.2

Manual Integrations
APPROVED

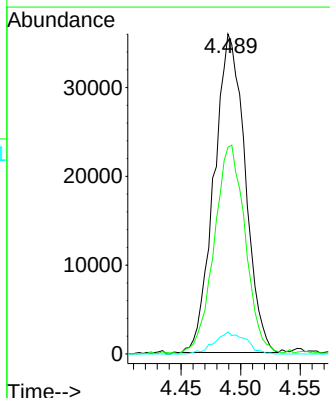
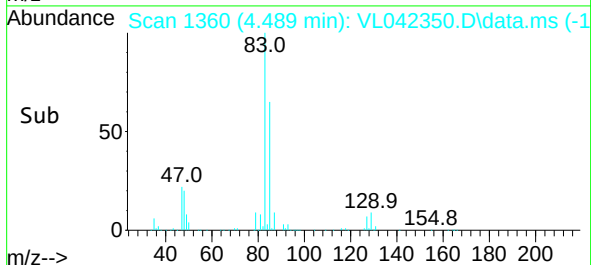
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

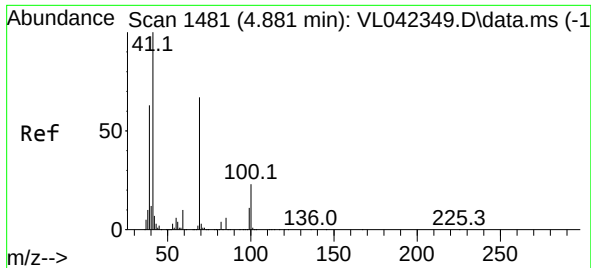


#42
Bromodichloromethane
Concen: 2.025 ppbv
RT: 4.489 min Scan# 1360
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17



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





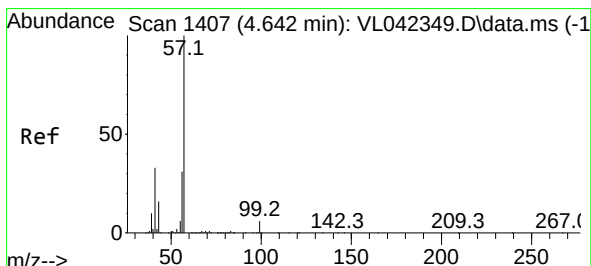
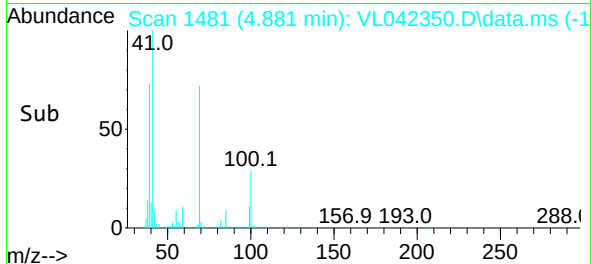
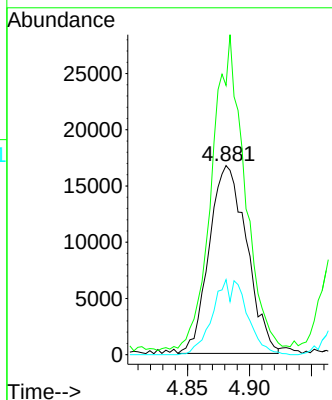
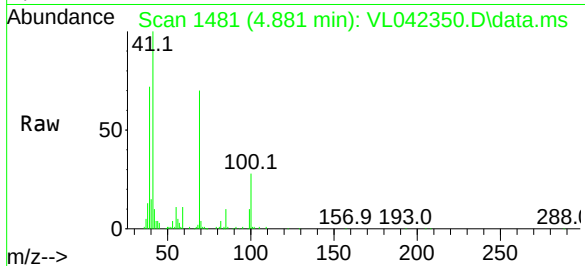
#43
Methyl Methacrylate
Concen: 2.046 ppbv
RT: 4.881 min Scan# 1481
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument : MSVOA_L
ClientSampleId : VSTDIC002

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

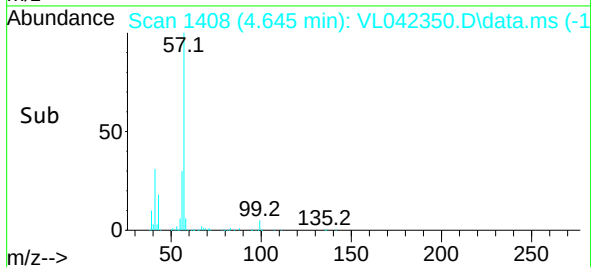
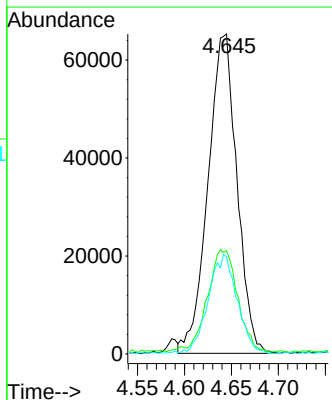
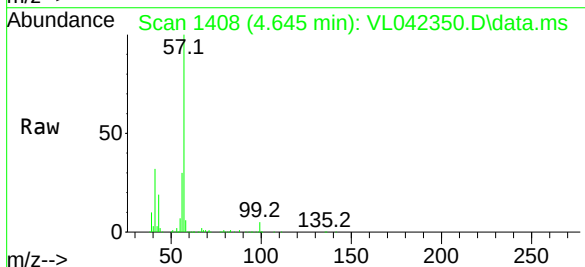
Manual Integrations
APPROVED

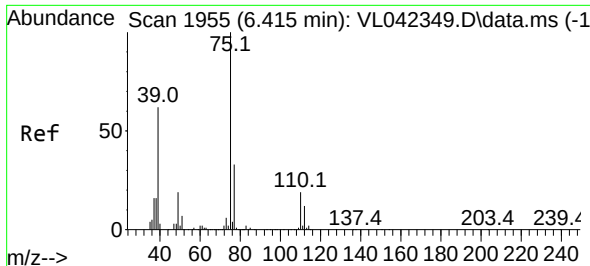
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

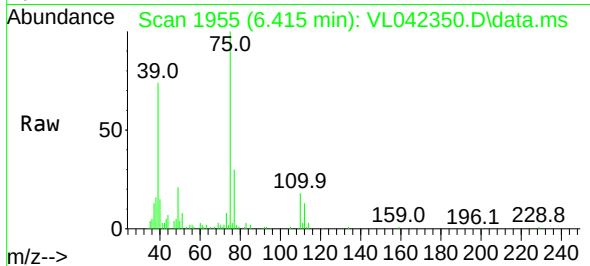
Tgt Ion: 57 Resp: 139641
Ion Ratio Lower Upper
57 100
41 34.4 27.2 40.8
56 31.3 25.7 38.5





#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

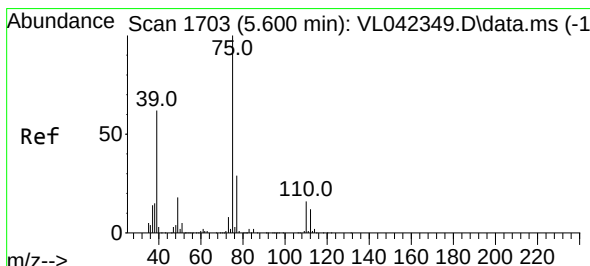
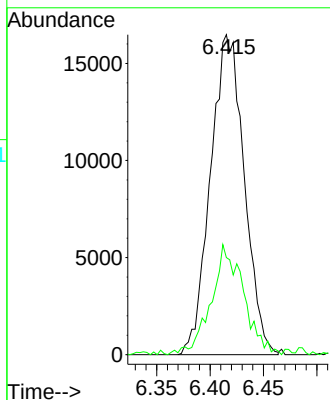
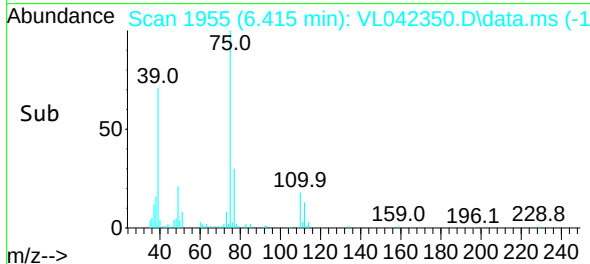
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002



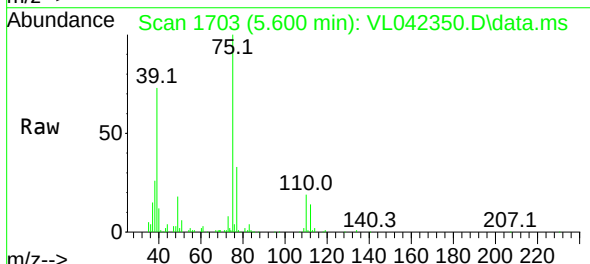
Tgt Ion: 75 Resp: 3626
 Ion Ratio Lower Upper
 75 100
 77 30.4 27.0 40.6

Manual Integrations
 APPROVED

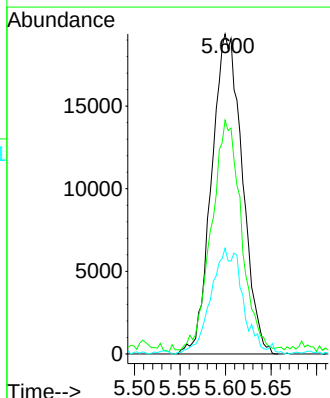
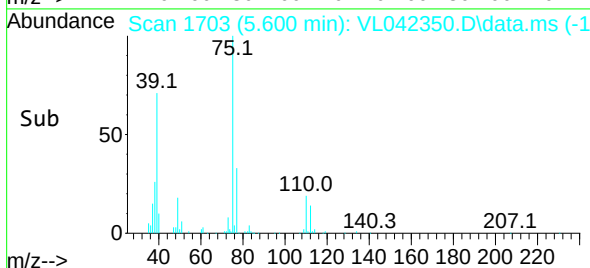
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

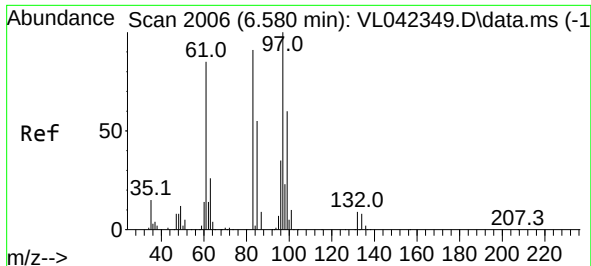


#46
 cis-1,3-Dichloropropene
 Concen: 2.096 ppbv m
 RT: 5.600 min Scan# 1703
 Delta R.T. -0.000 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17



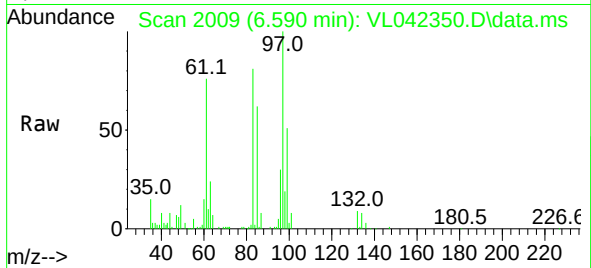
Tgt Ion: 75 Resp: 45327
 Ion Ratio Lower Upper
 75 100
 39 73.0 50.0 75.0
 77 33.1 23.0 34.6





#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

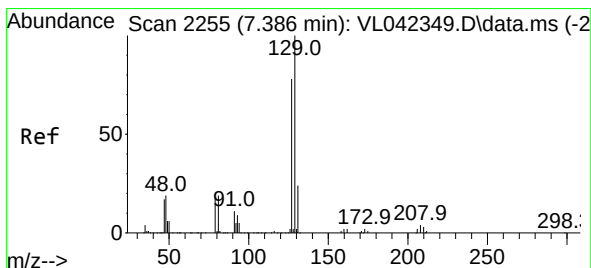
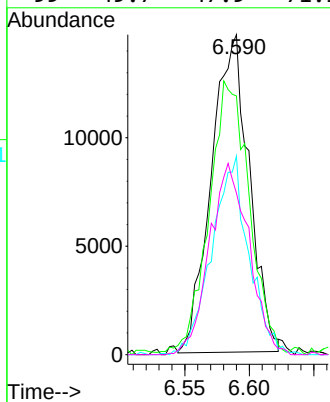
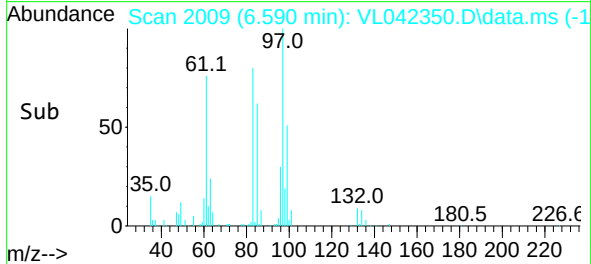
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



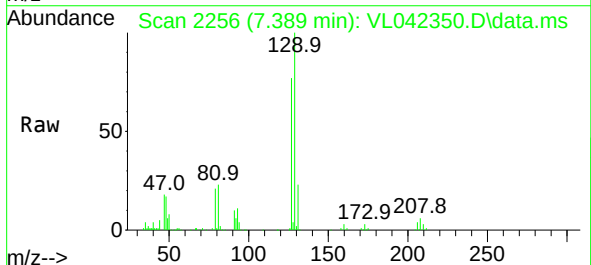
Tgt Ion: 97 Resp: 29879
Ion Ratio Lower Upper
97 100
83 78.8 72.8 109.2
85 61.7 44.2 66.4
99 49.7 47.9 71.9

Manual Integrations
APPROVED

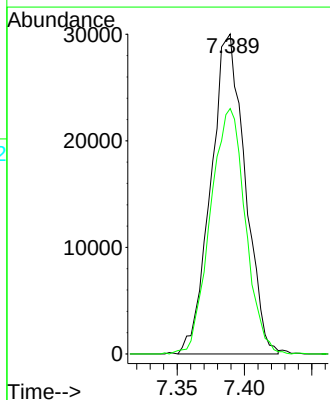
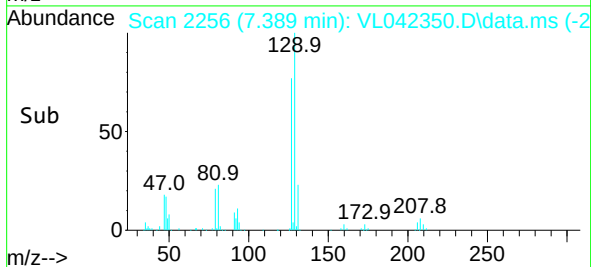
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

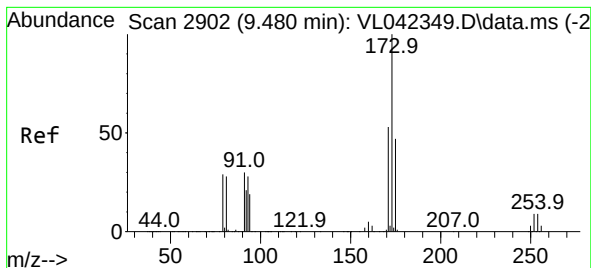


#48
Dibromochloromethane
Concen: 2.061 ppbv
RT: 7.389 min Scan# 2256
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17



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 :

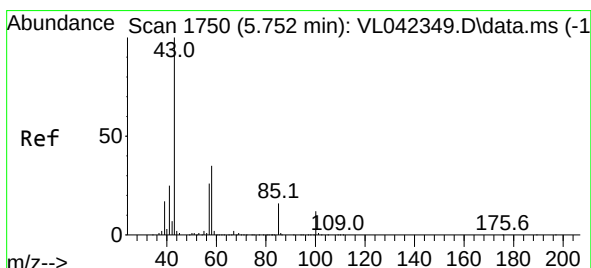
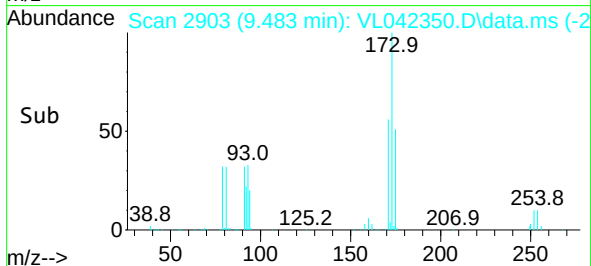
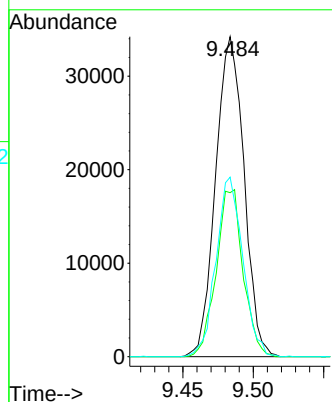
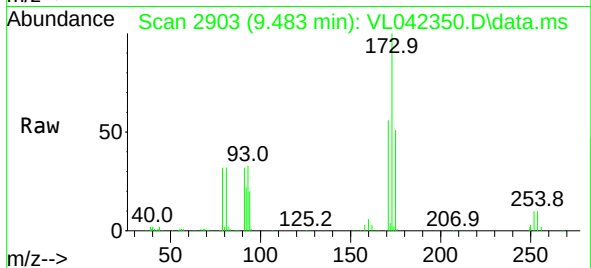
VSTDICC002

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

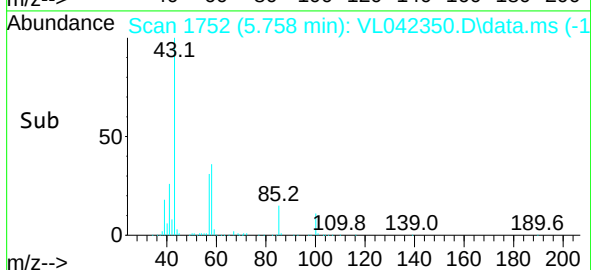
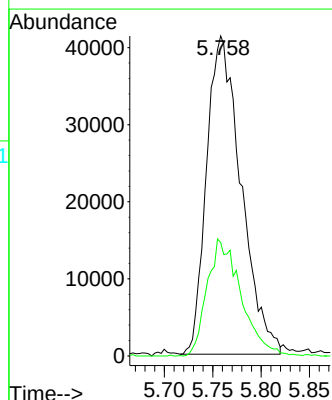
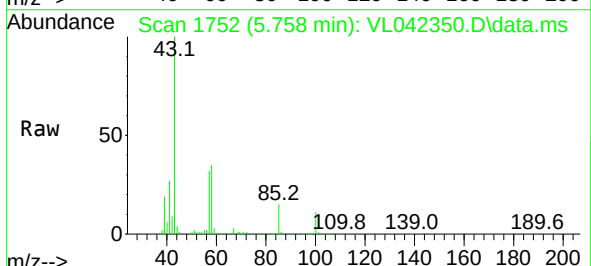
RT: 5.758 min Scan# 1752

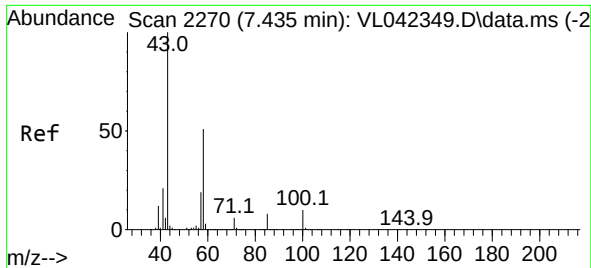
Delta R.T. 0.006 min

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





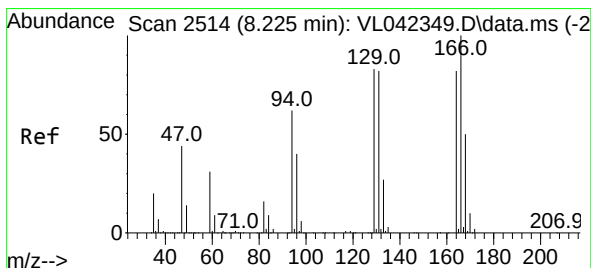
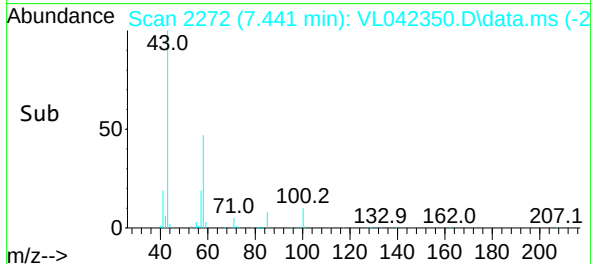
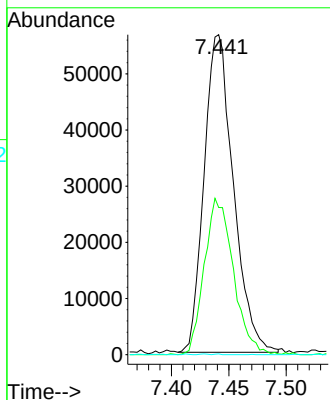
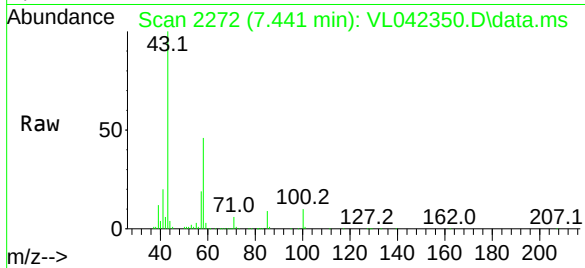
#51
2-Hexanone
Concen: 2.375 ppbv
RT: 7.441 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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

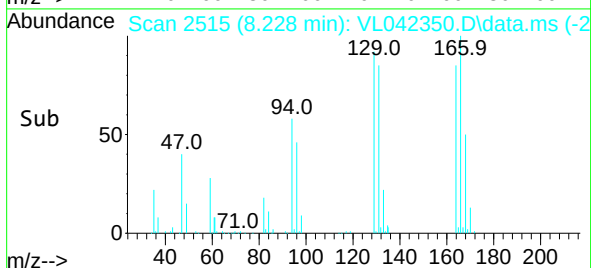
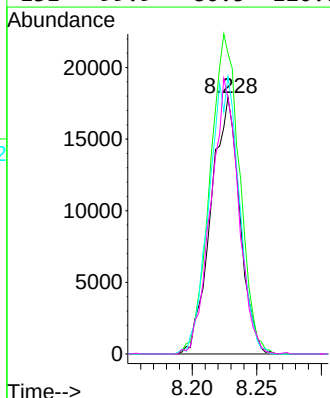
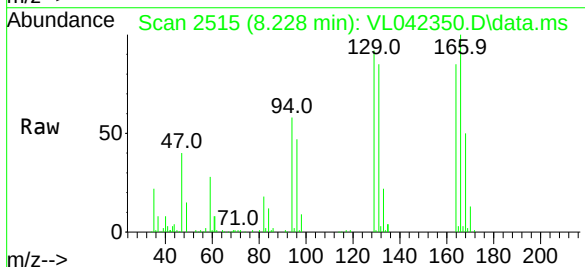
Manual Integrations
APPROVED

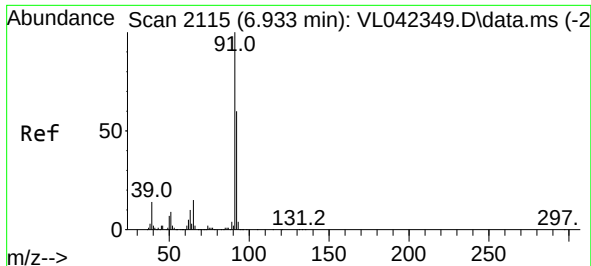
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

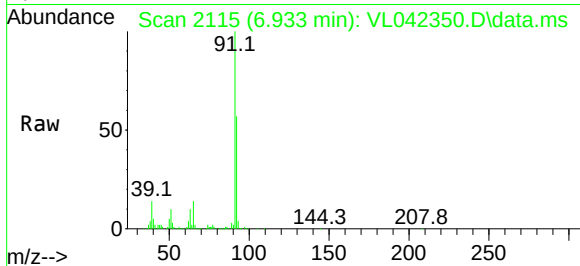
Tgt Ion:164 Resp: 27854
Ion Ratio Lower Upper
164 100
166 117.2 98.2 147.2
129 108.2 81.8 122.8
131 99.9 80.5 120.7





#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

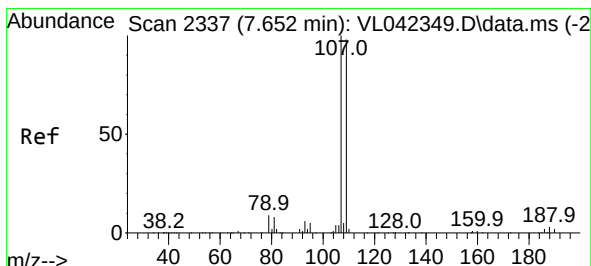
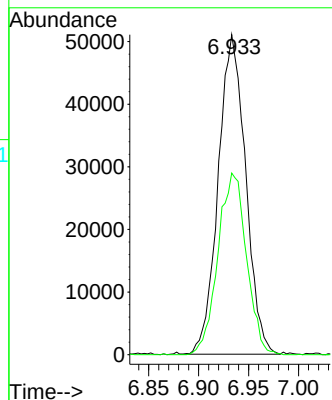
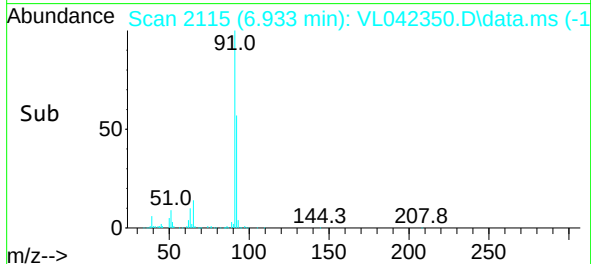
Instrument : MSVOA_L
ClientSampleId : VSTDIC002



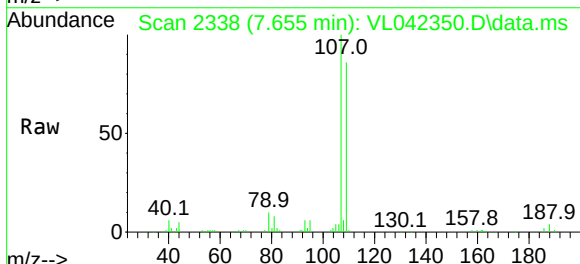
Tgt Ion: 91 Resp: 9749
Ion Ratio Lower Upper
91 100
92 59.1 48.2 72.4

Manual Integrations
APPROVED

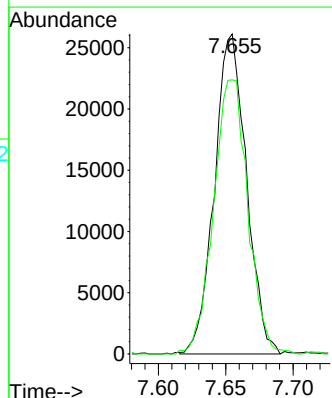
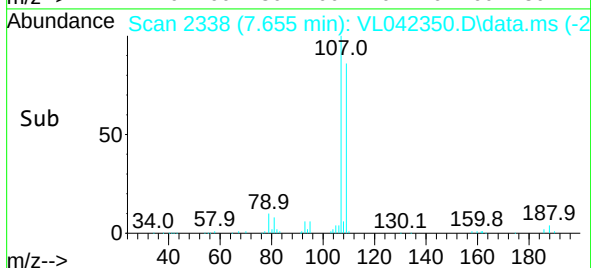
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

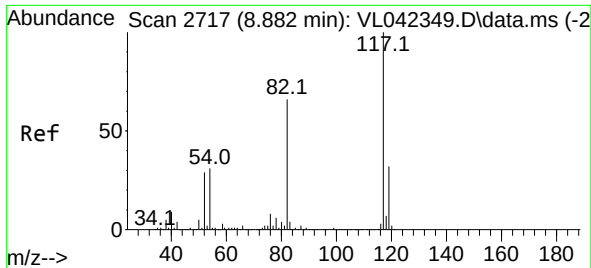


#54
1,2-Dibromoethane
Concen: 2.076 ppbv
RT: 7.655 min Scan# 2338
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17



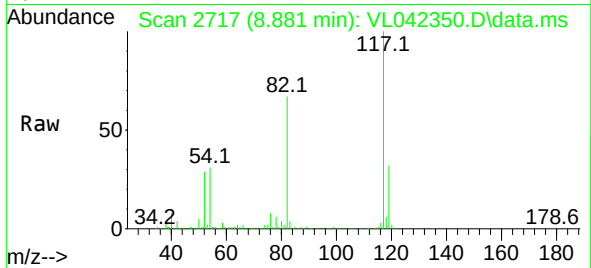
Tgt Ion:107 Resp: 43153
Ion Ratio Lower Upper
107 100
109 84.5 78.2 117.4





#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

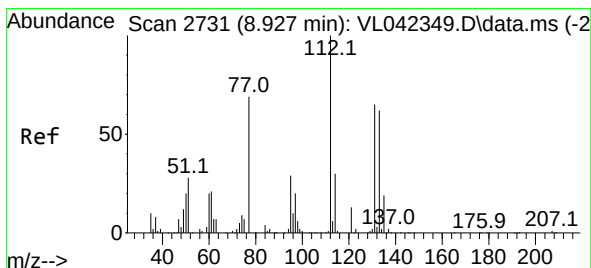
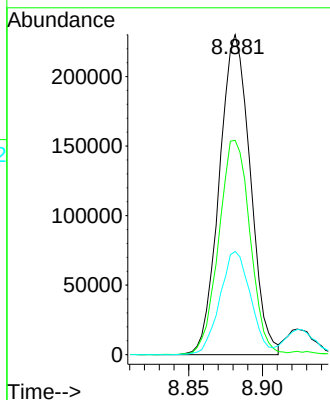
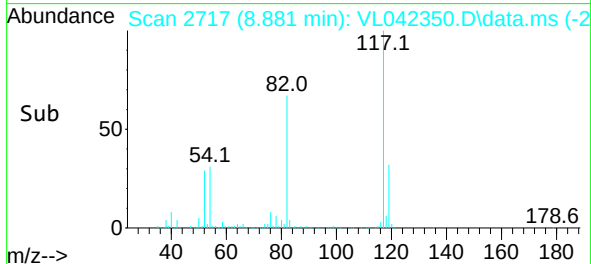
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



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

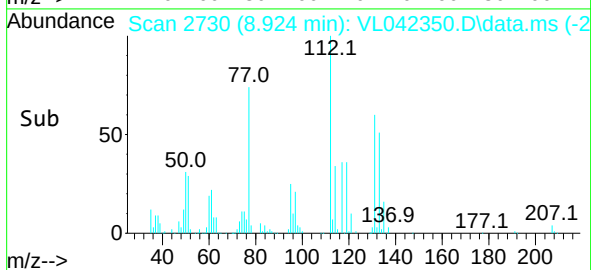
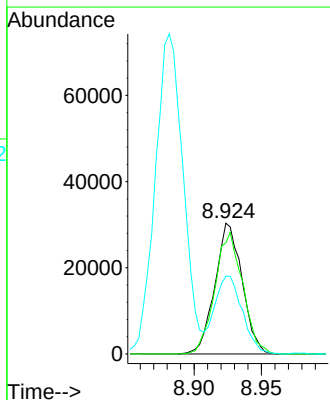
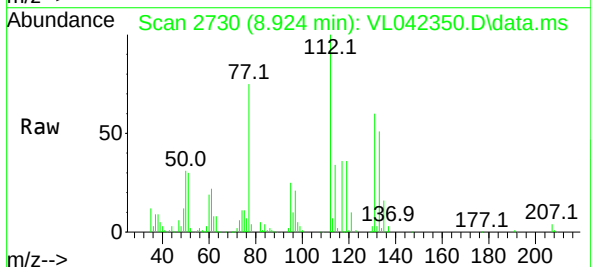
Manual Integrations
APPROVED

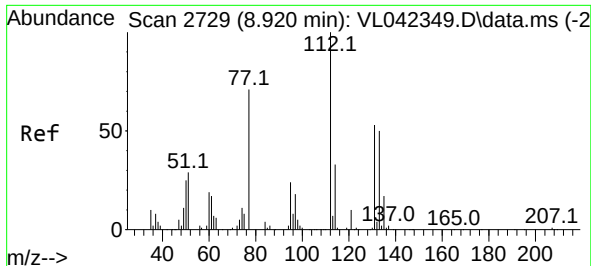
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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





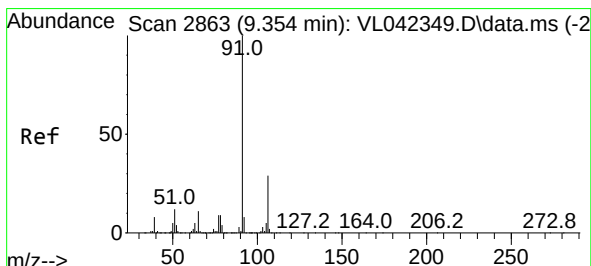
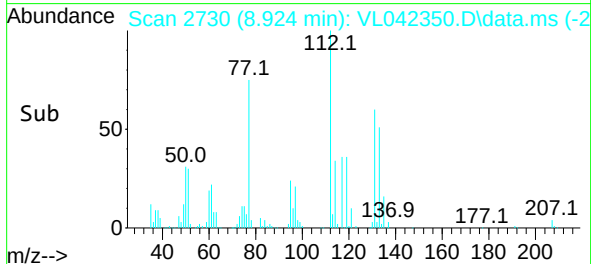
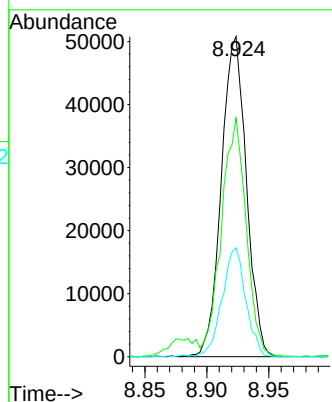
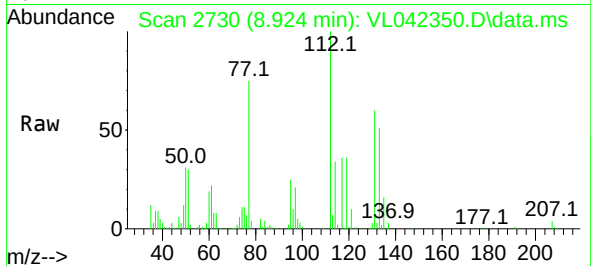
#57
Chlorobenzene
Concen: 2.054 ppbv
RT: 8.924 min Scan# 2729
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Tgt Ion:	112	Resp:	7168
Ion Ratio	Lower	Upper	
112	100		
77	74.0	57.8	86.6
114	34.0	29.3	35.9

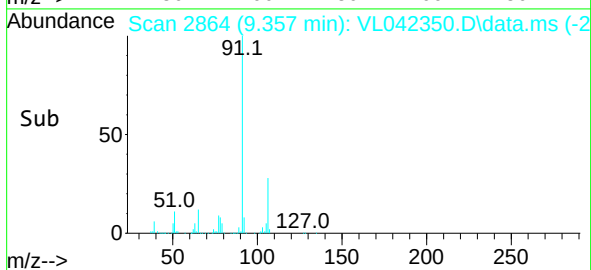
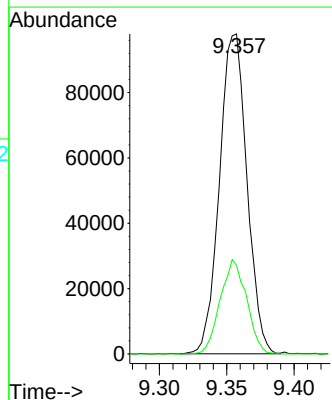
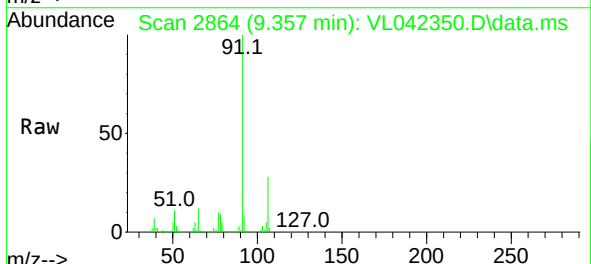
Manual Integrations
APPROVED

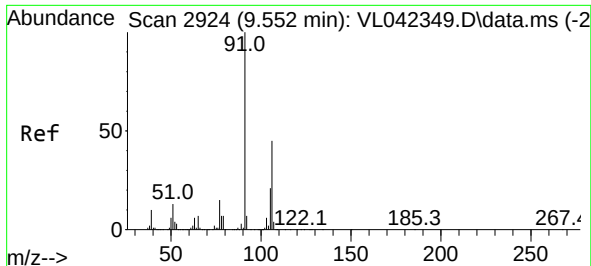
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

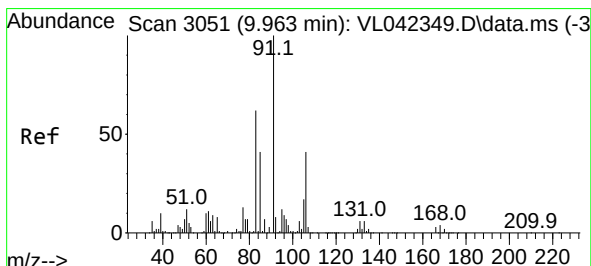
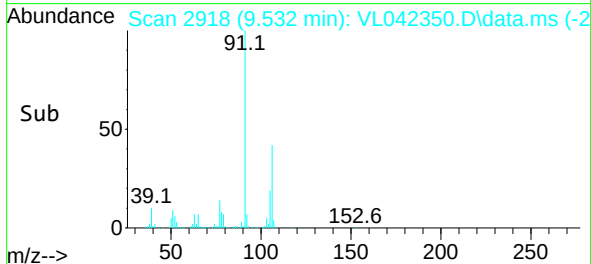
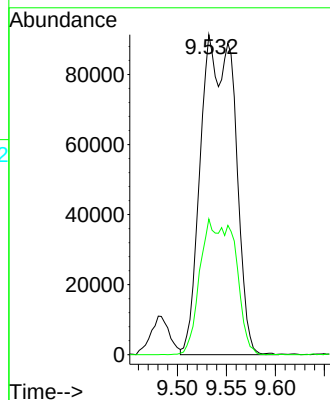
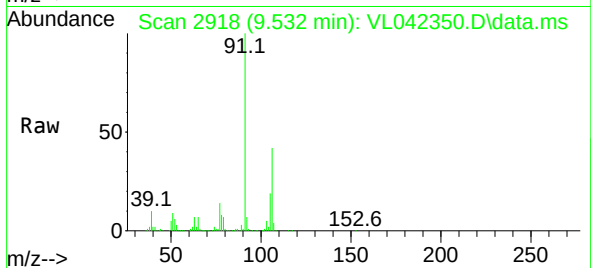
106 0.0 35.4 53.2

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

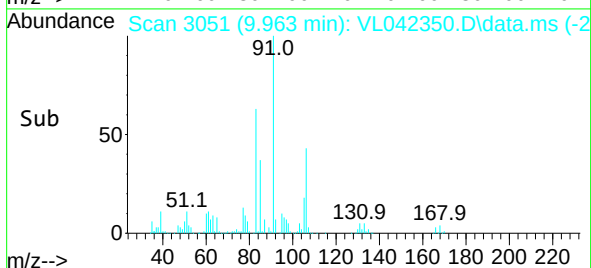
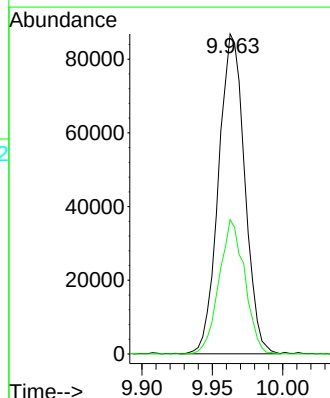
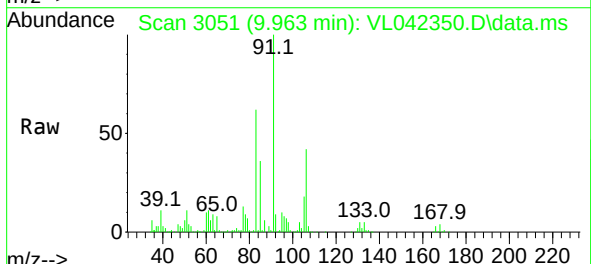
Acq: 17 Apr 2025 10:17

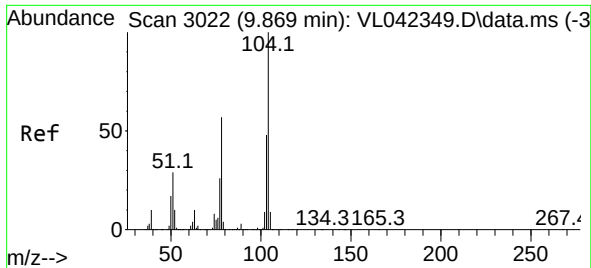
Tgt Ion: 91 Resp: 111972

Ion Ratio Lower Upper

91 100

106 41.2 21.1 63.4





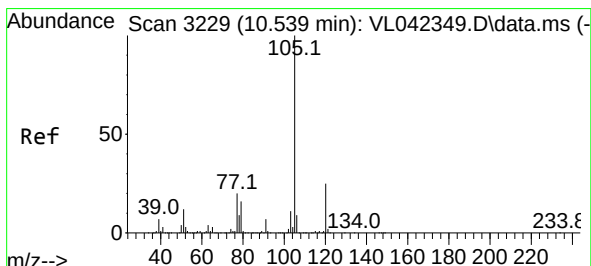
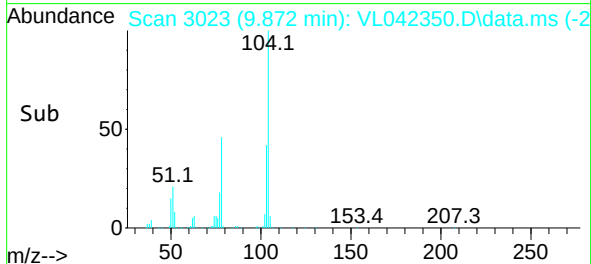
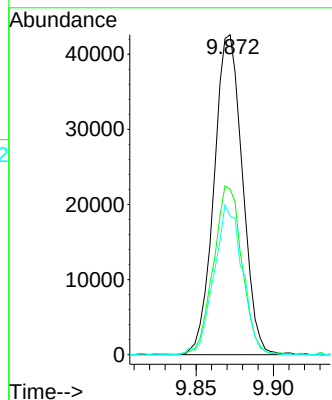
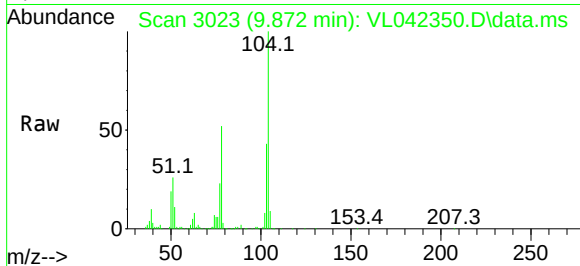
#61
Styrene
Concen: 2.106 ppbv
RT: 9.872 min Scan# 3022
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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

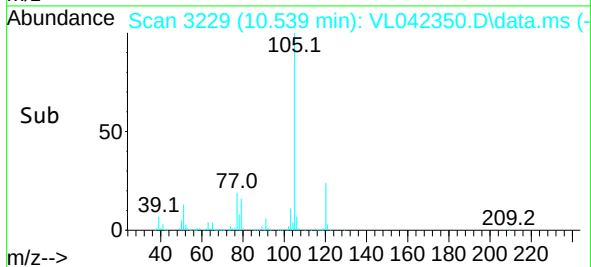
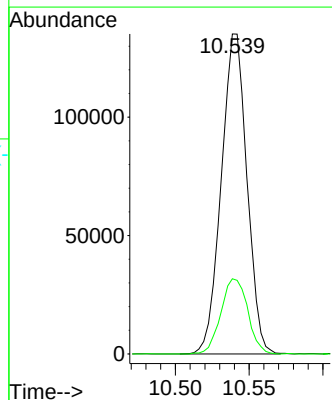
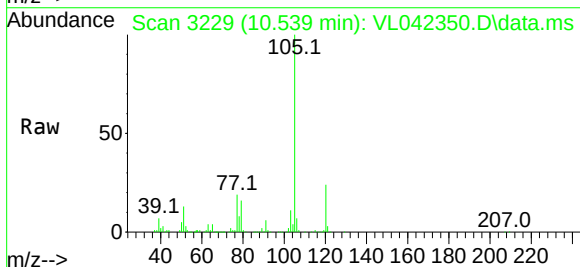
Manual Integrations
APPROVED

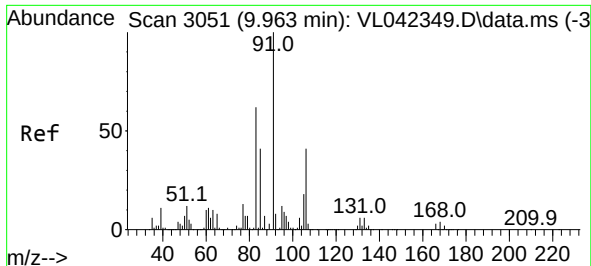
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

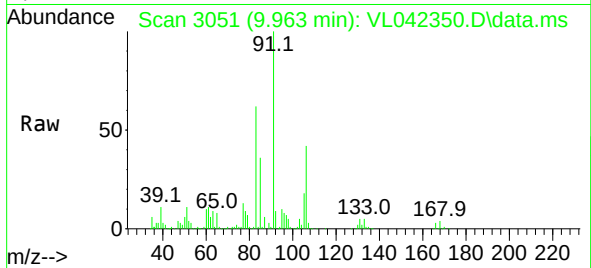
Tgt Ion:105 Resp: 163716
Ion Ratio Lower Upper
105 100
120 24.6 19.8 29.8





#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

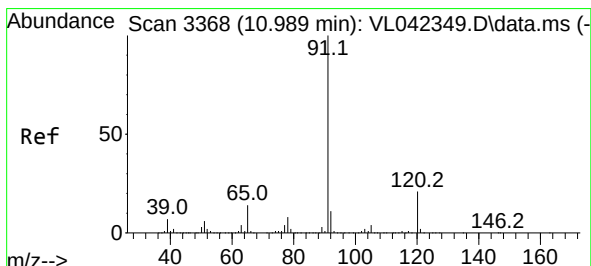
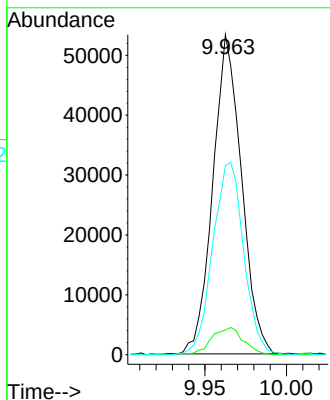
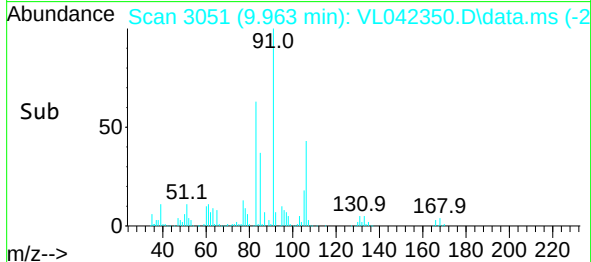
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



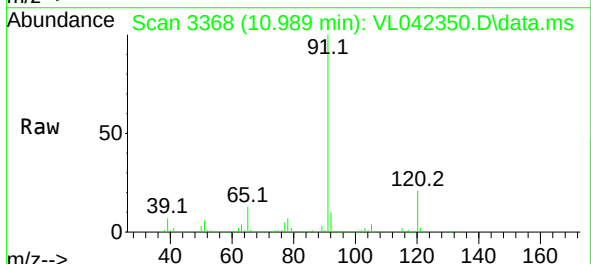
Tgt Ion: 83 Resp: 64952
Ion Ratio Lower Upper
83 100
131 9.6 4.5 13.7
85 65.4 32.4 97.0

Manual Integrations
APPROVED

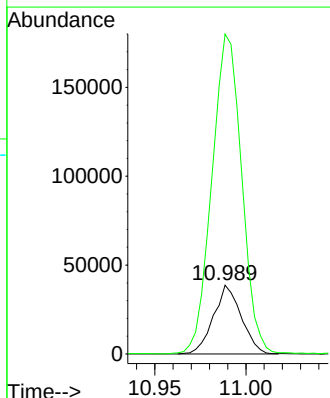
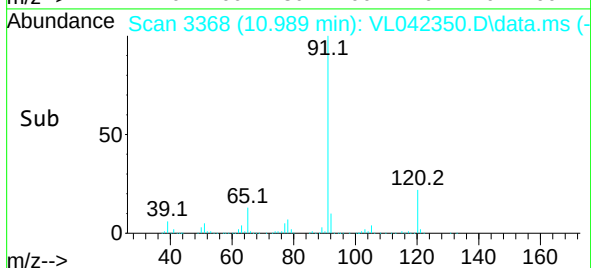
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

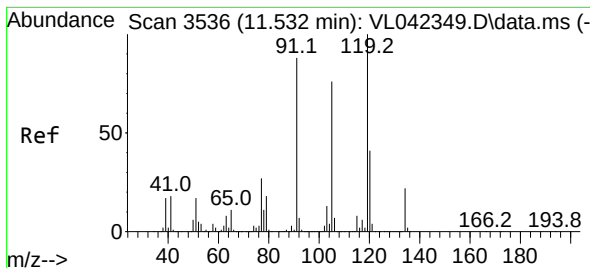


#64
n-propylbenzene
Concen: 2.058 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17



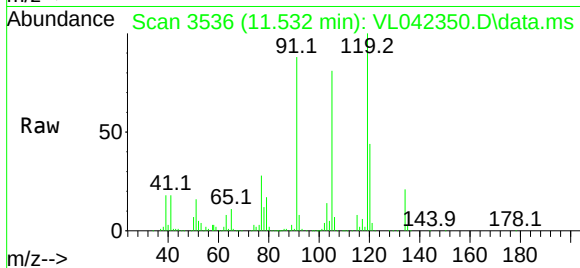
Tgt Ion:120 Resp: 40956
Ion Ratio Lower Upper
120 100
91 502.0 392.4 588.6





#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

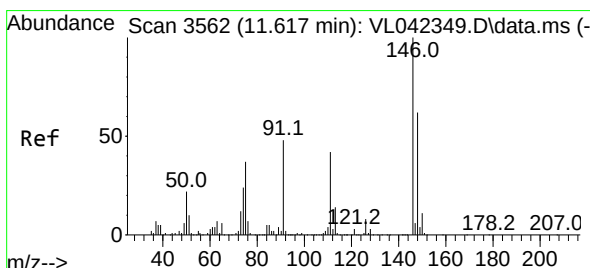
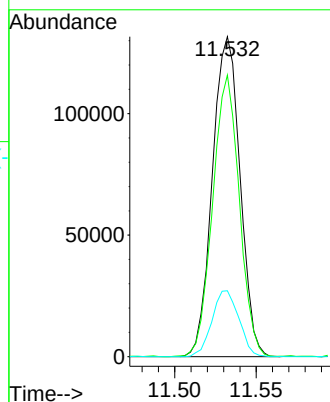
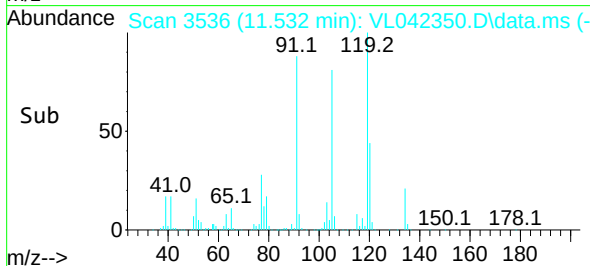
Instrument : MSVOA_1
ClientSampleId : VSTDIC002



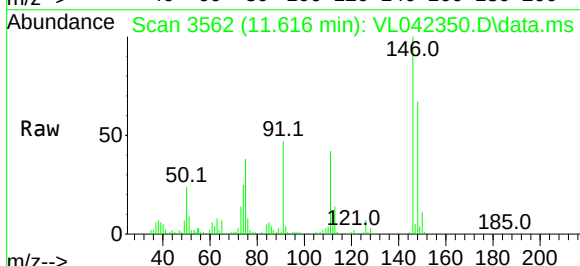
Tgt Ion: 119 Resp: 15540
Ion Ratio Lower Upper
119 100
91 85.0 74.6 111.8
134 20.1 18.8 28.2

Manual Integrations
APPROVED

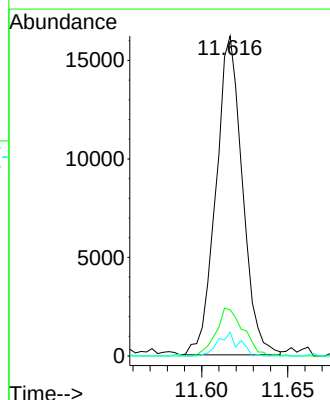
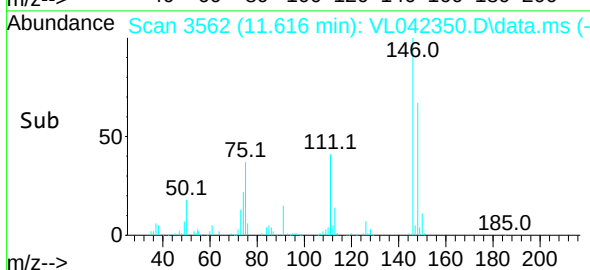
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

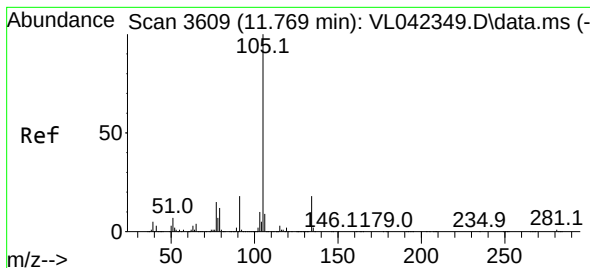


#66
Benzyl Chloride
Concen: 2.163 ppbv
RT: 11.616 min Scan# 3562
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17



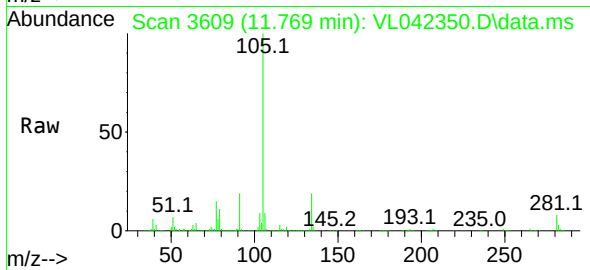
Tgt Ion: 91 Resp: 17300
Ion Ratio Lower Upper
91 100
126 15.6 11.8 17.6
128 6.1 4.5 6.7





#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

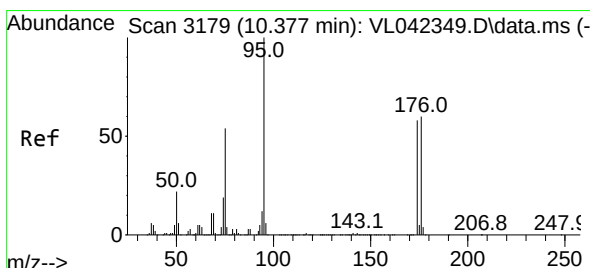
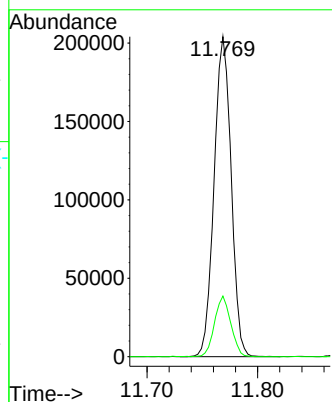
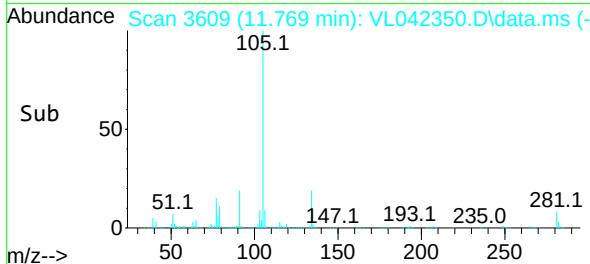
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



Tgt Ion:105 Resp: 21832
Ion Ratio Lower Upper
105 100
134 18.1 14.6 21.8

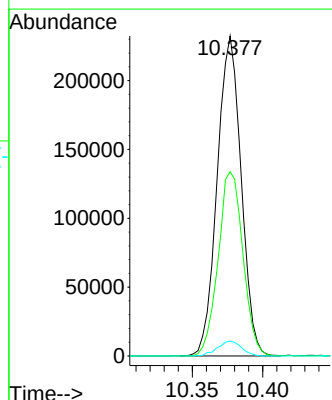
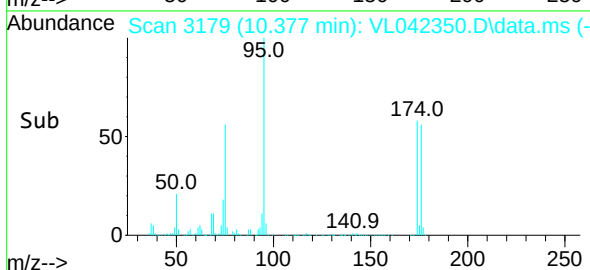
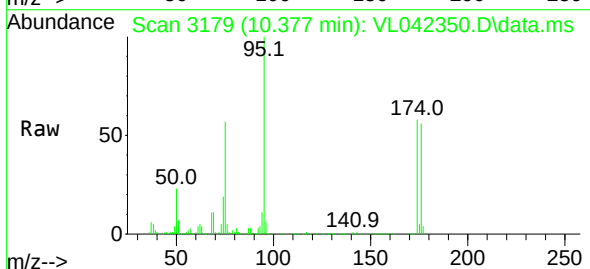
Manual Integrations
APPROVED

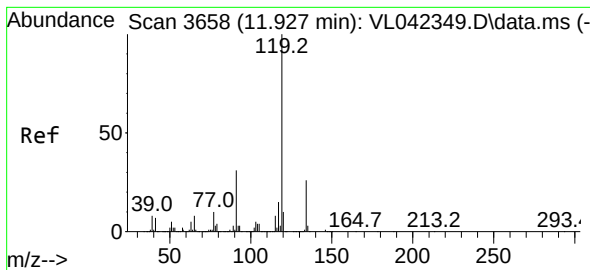
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

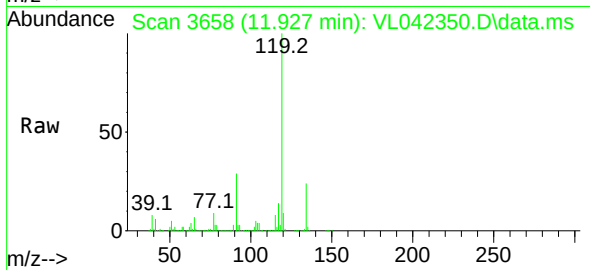
Tgt Ion: 95 Resp: 275715
Ion Ratio Lower Upper
95 100
174 59.6 48.5 72.7
175 4.7 3.7 5.5





#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

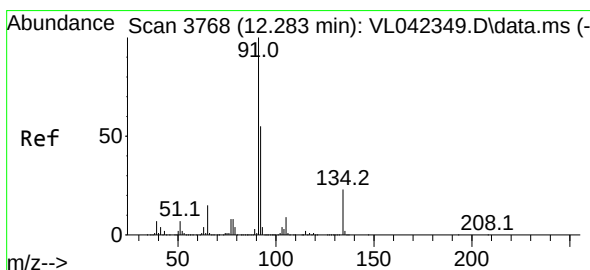
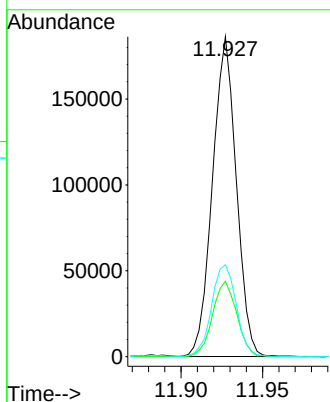
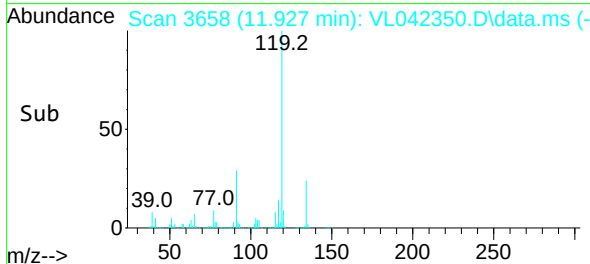
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



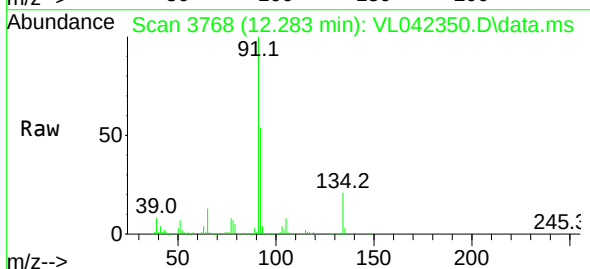
Tgt Ion: 119 Resp: 18865
Ion Ratio Lower Upper
119 100
134 24.2 20.0 30.0
91 30.8 24.4 36.6

Manual Integrations
APPROVED

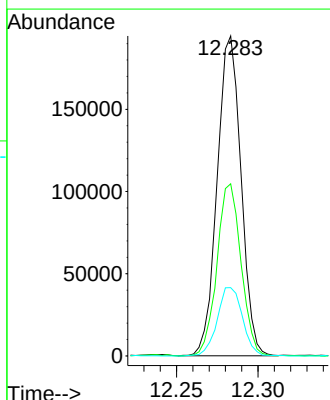
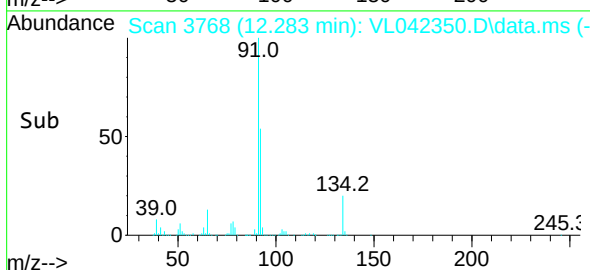
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

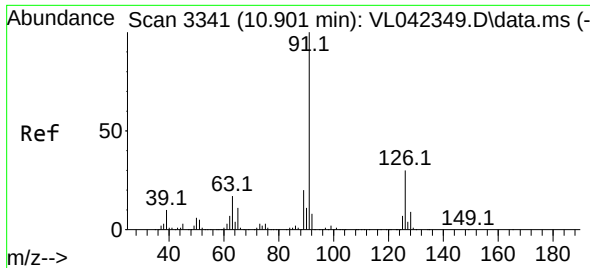


#70
n-Butylbenzene
Concen: 2.164 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17



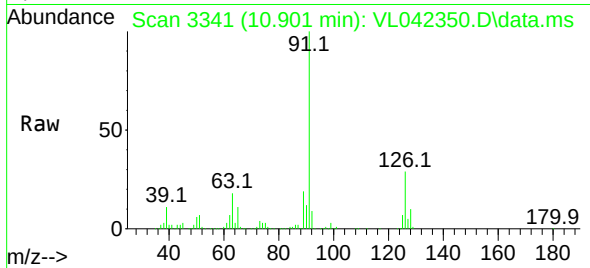
Tgt Ion: 91 Resp: 198221
Ion Ratio Lower Upper
91 100
92 54.4 44.2 66.4
134 22.6 18.2 27.4





#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

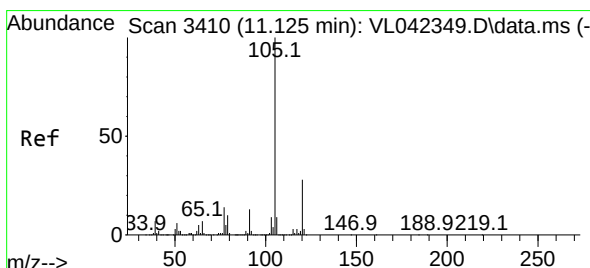
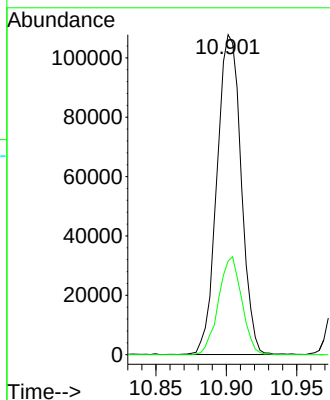
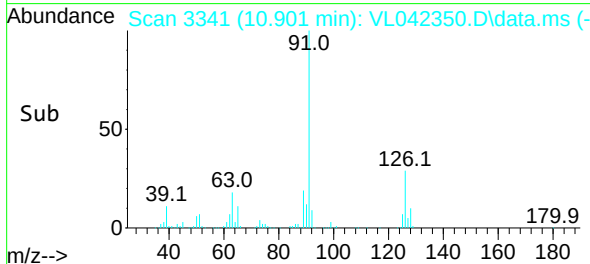
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



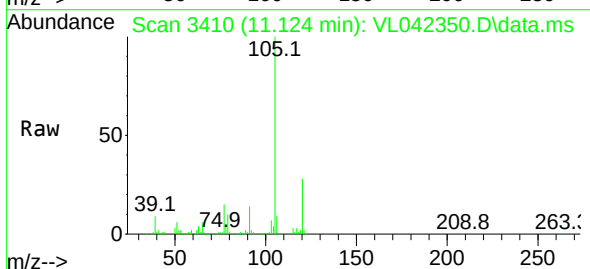
Tgt Ion: 91 Resp: 128858
Ion Ratio Lower Upper
91 100
126 29.5 11.4 45.4

Manual Integrations
APPROVED

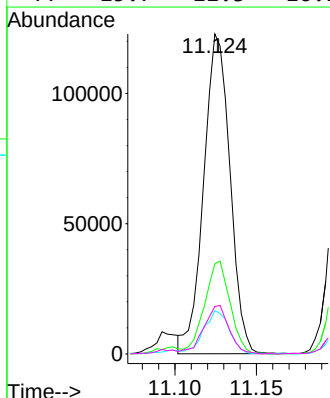
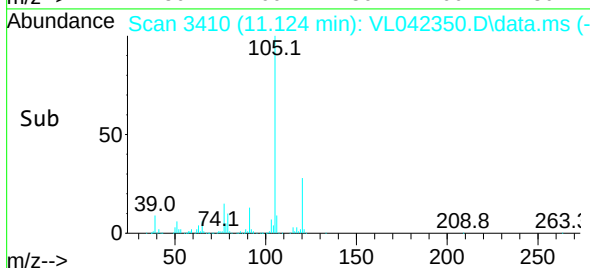
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

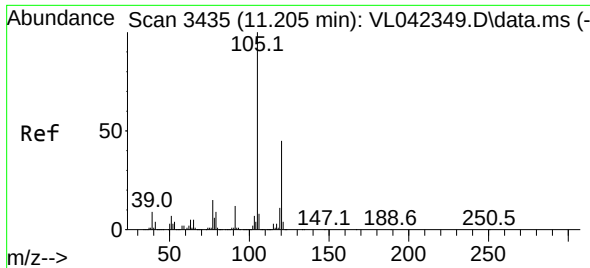


#72
4-Ethyltoluene
Concen: 2.091 ppbv
RT: 11.124 min Scan# 3410
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17



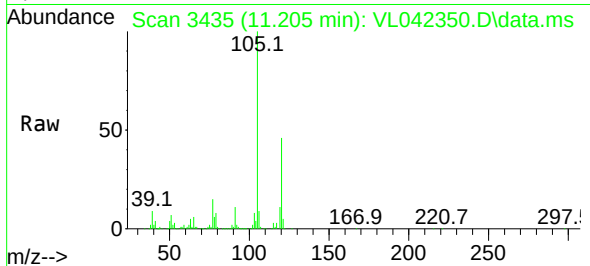
Tgt Ion:105 Resp: 137872
Ion Ratio Lower Upper
105 100
120 30.1 23.2 34.8
91 14.4 10.4 15.6
77 15.7 11.3 16.9





#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

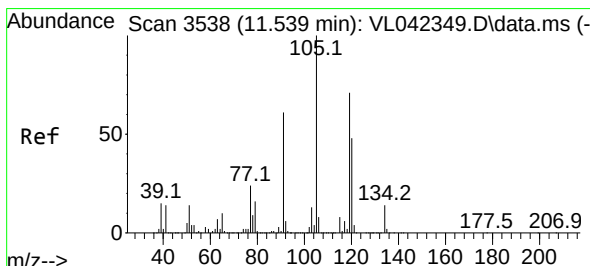
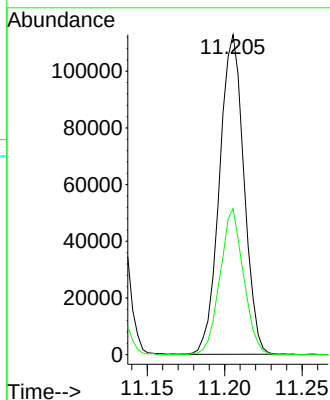
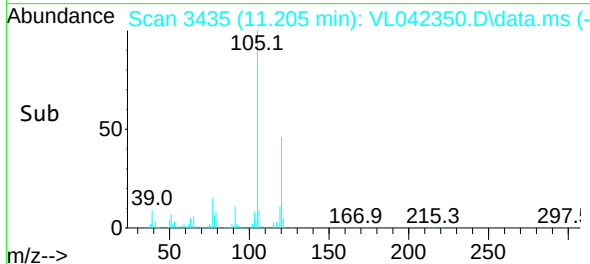
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



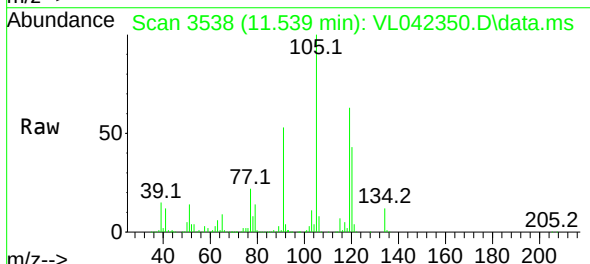
Tgt Ion:105 Resp: 123580
Ion Ratio Lower Upper
105 100
120 45.7 35.6 53.4

Manual Integrations
APPROVED

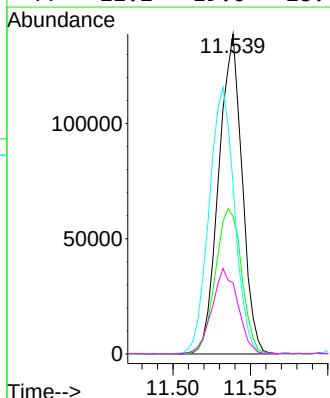
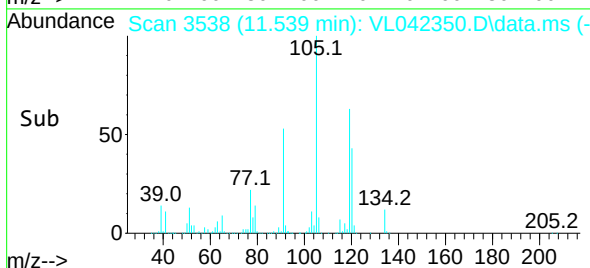
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

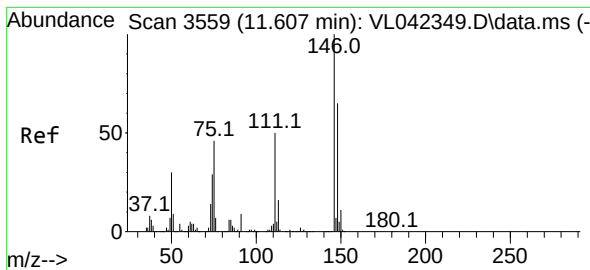


#74
1,2,4-Trimethylbenzene
Concen: 2.140 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17



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 :

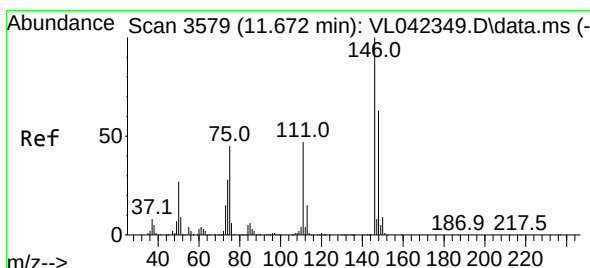
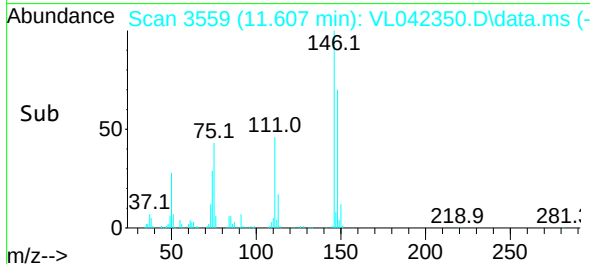
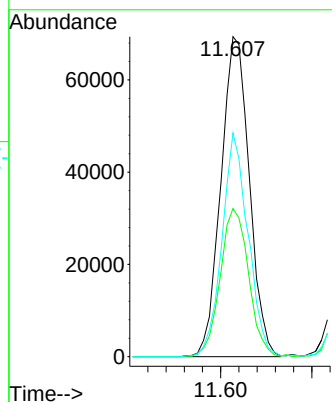
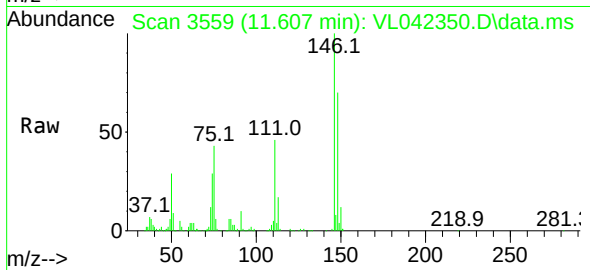
VSTDICC002

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

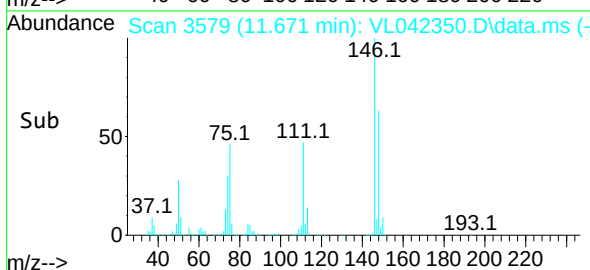
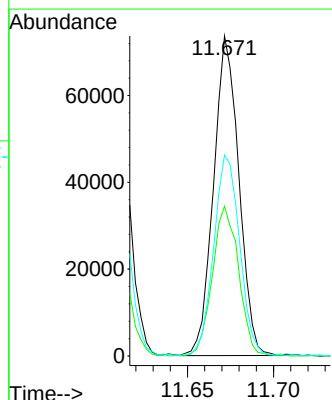
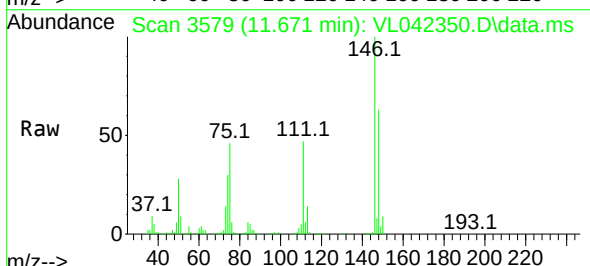
RT: 11.671 min Scan# 3579

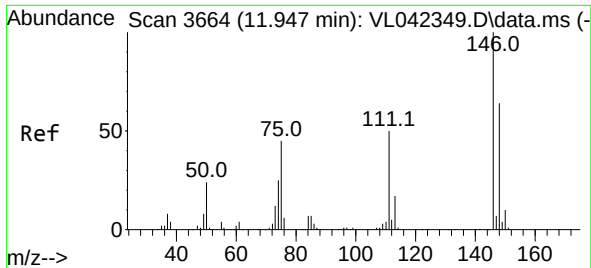
Delta R.T. -0.000 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

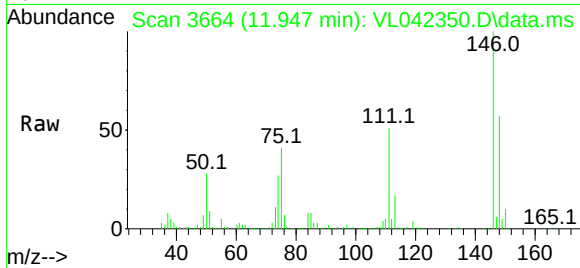
Tgt Ion:	146	Resp:	75323
Ion Ratio	Lower	Upper	
146	100		
111	48.4	24.2	72.6
148	65.1	32.1	96.5





#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

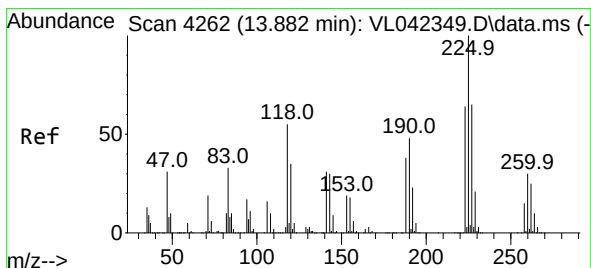
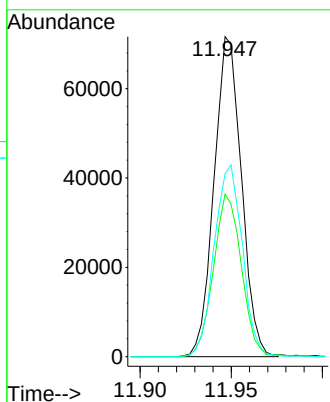
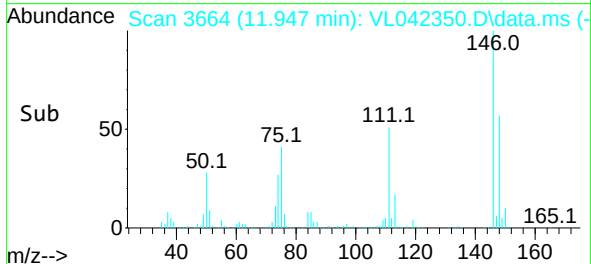
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002



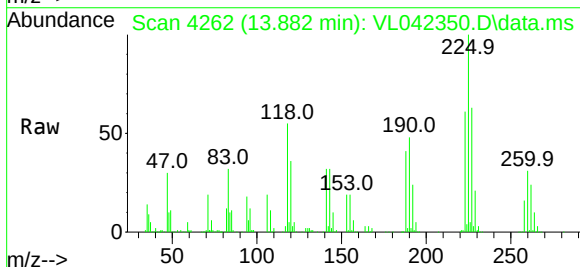
Tgt Ion:146 Resp: 74780
Ion Ratio Lower Upper
146 100
111 52.0 25.3 75.9
148 61.8 31.5 94.5

Manual Integrations
APPROVED

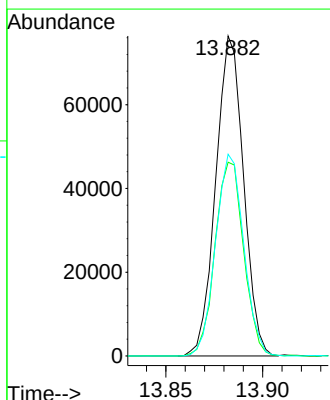
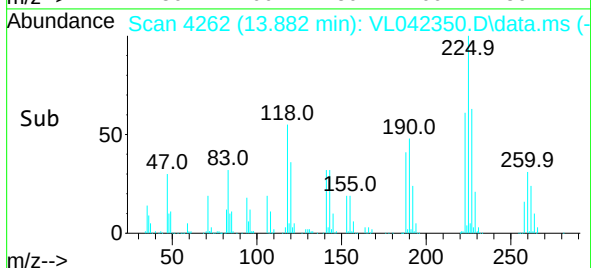
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

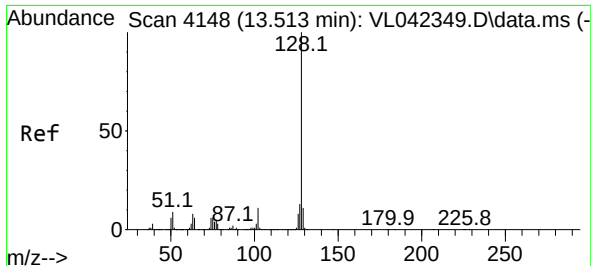


#78
Hexachloro-1,3-Butadiene
Concen: 2.194 ppbv
RT: 13.882 min Scan# 4262
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17



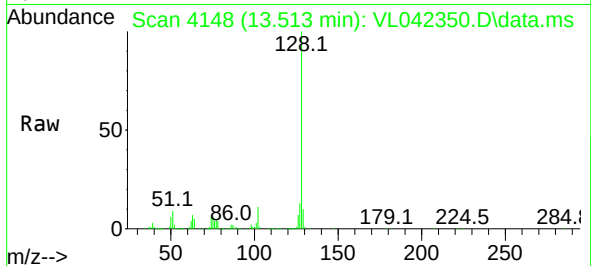
Tgt Ion:225 Resp: 76158
Ion Ratio Lower Upper
225 100
223 62.6 50.3 75.5
227 64.1 51.5 77.3





#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

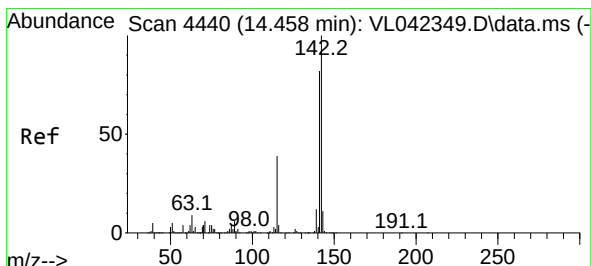
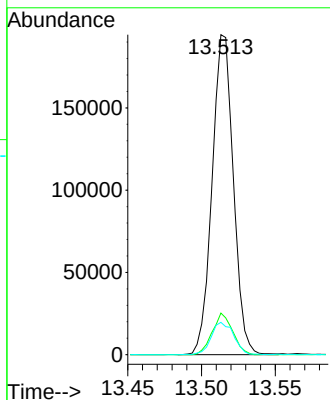
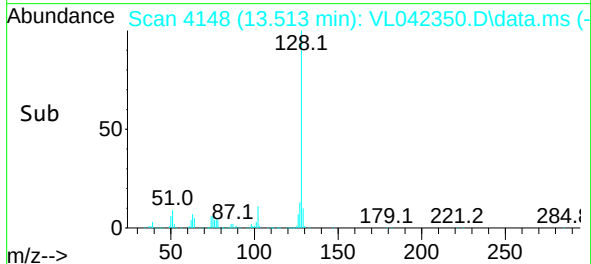
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002



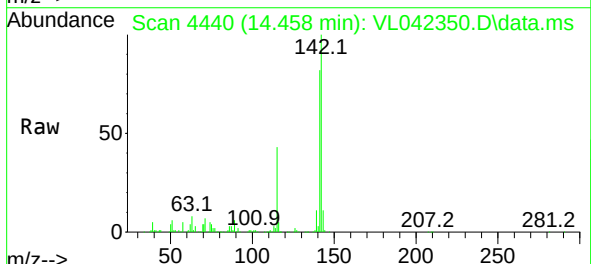
Tgt Ion:128 Resp: 195233
Ion Ratio Lower Upper
128 100
127 13.0 10.6 15.8
129 10.1 8.6 12.8

Manual Integrations
APPROVED

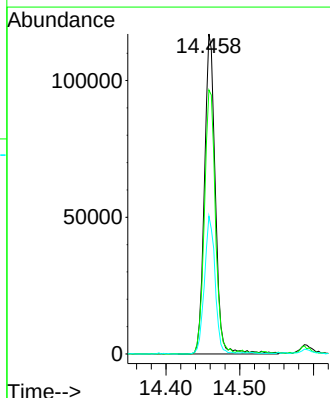
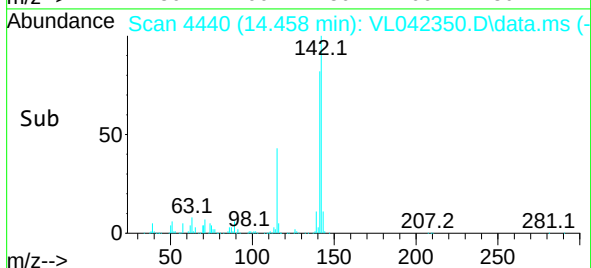
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

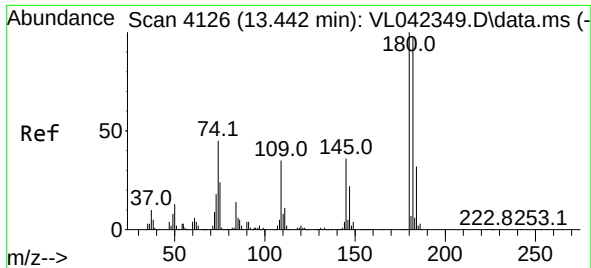


#80
Naphthalene,2-methyl-
Concen: 2.574 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17



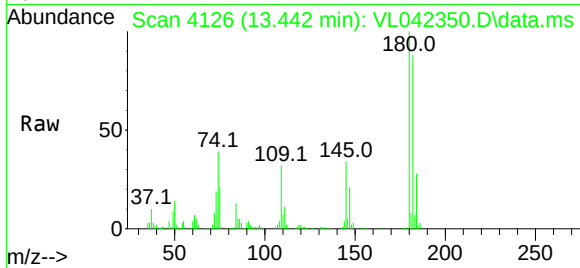
Tgt Ion:142 Resp: 119262
Ion Ratio Lower Upper
142 100
141 84.7 66.8 100.2
115 42.2 33.4 50.2





#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

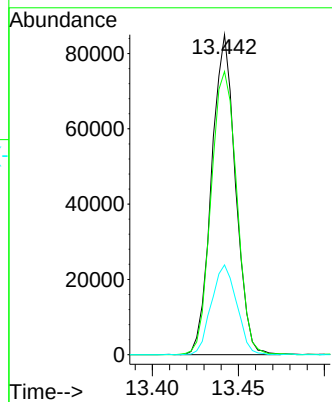
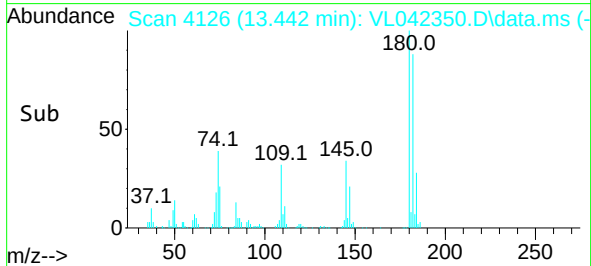
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002



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

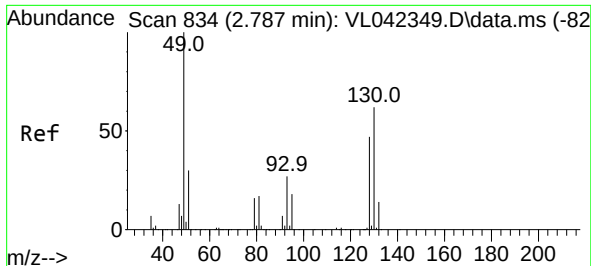
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.603	75	22189m	1.015	ppbv	
47) 1,1,2-Trichloroethane	6.587	97	15457m	1.048	ppbv	
48) Dibromochloromethane	7.390	129	25948	0.997	ppbv	100
49) Bromoform	9.484	173	22413	0.984	ppbv	98
50) 4-Methyl-2-Pentanone	5.765	43	49725	1.049	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

Manual Integrations APPROVED

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
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration





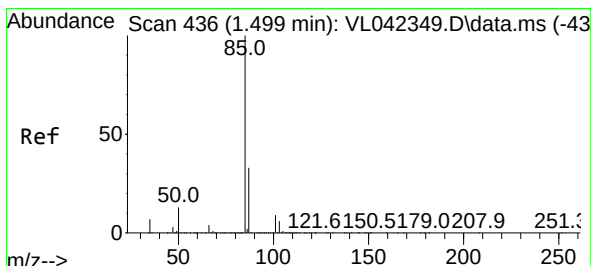
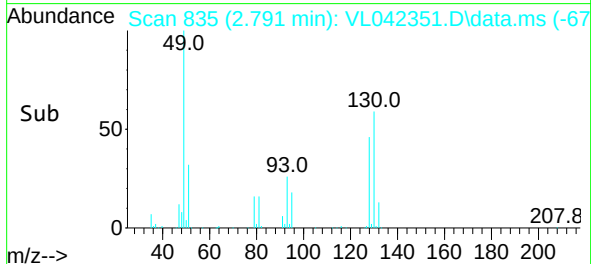
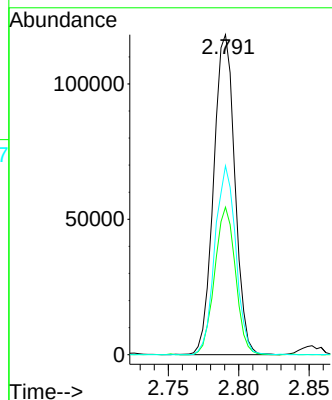
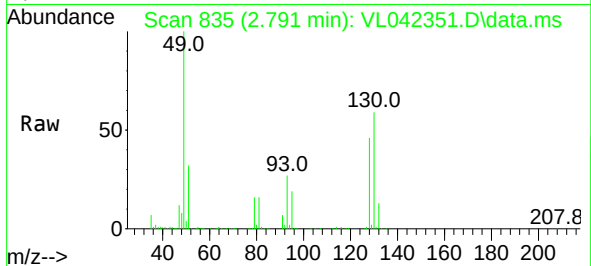
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.791 min Scan# 81
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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

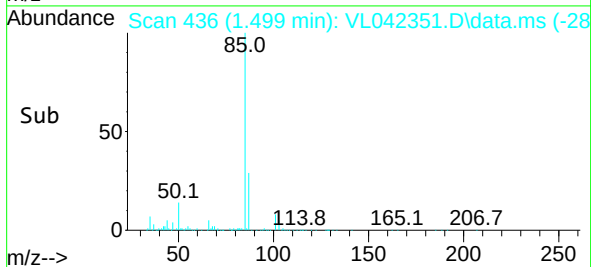
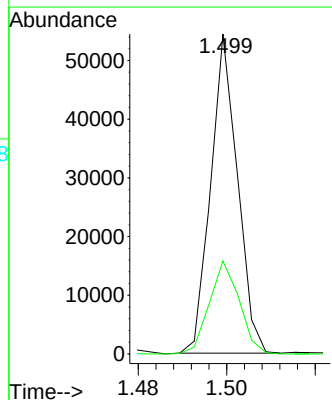
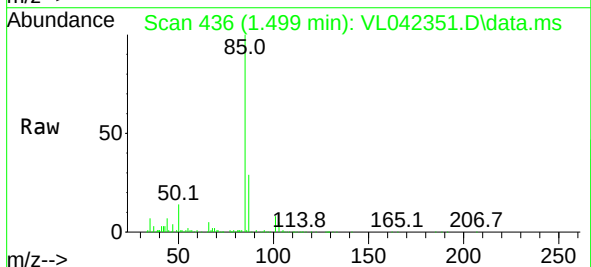
Manual Integrations
APPROVED

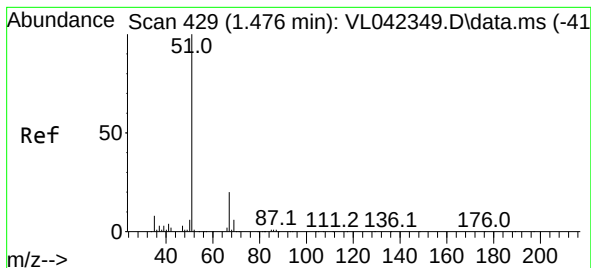
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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 :

VSTDICC001

Tgt Ion: 51 Resp: 2057

Ion Ratio Lower Upper

51 100

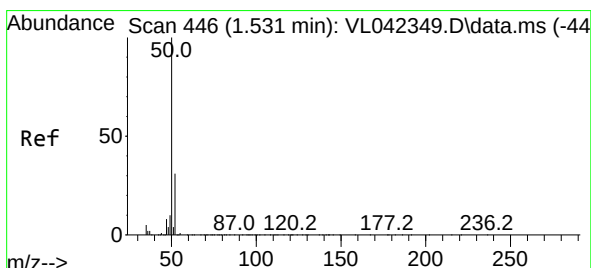
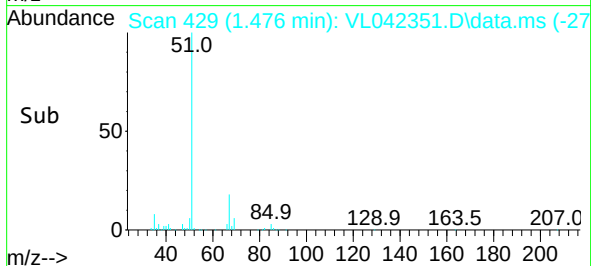
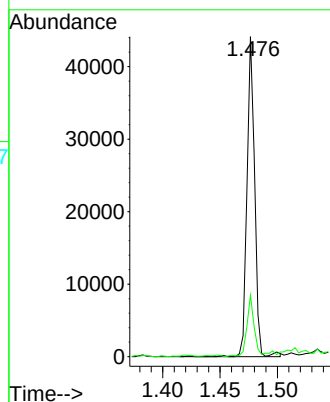
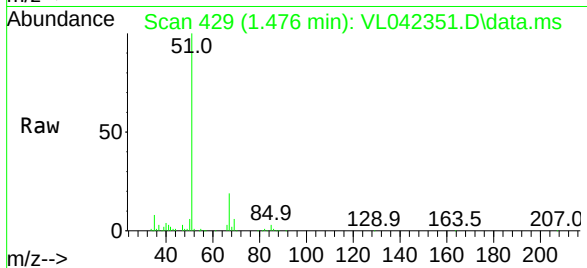
67 19.1 16.2 24.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#4

Chloromethane

Concen: 1.038 ppbv

RT: 1.535 min Scan# 447

Delta R.T. 0.004 min

Lab File: VL042351.D

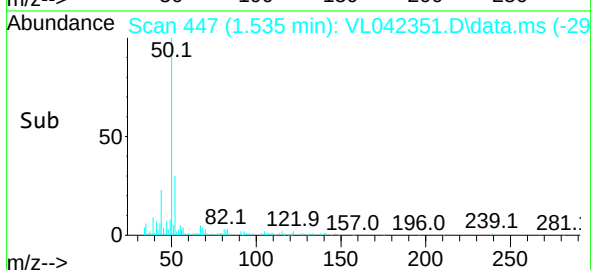
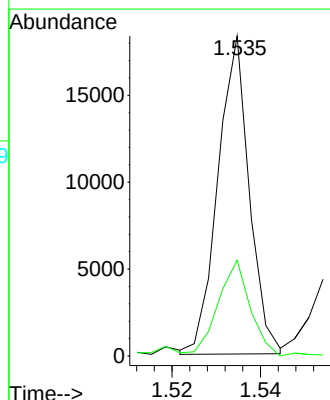
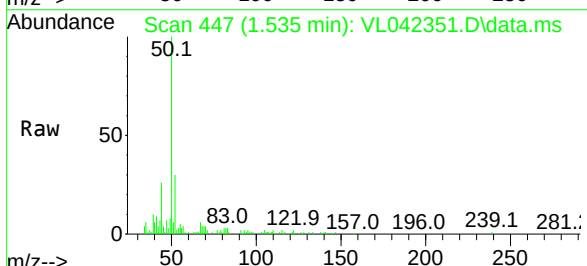
Acq: 17 Apr 2025 10:48

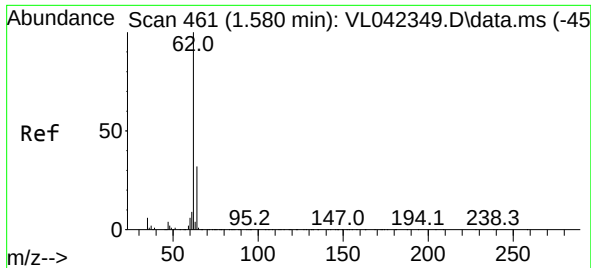
Tgt Ion: 50 Resp: 9008

Ion Ratio Lower Upper

50 100

52 30.4 24.7 37.1





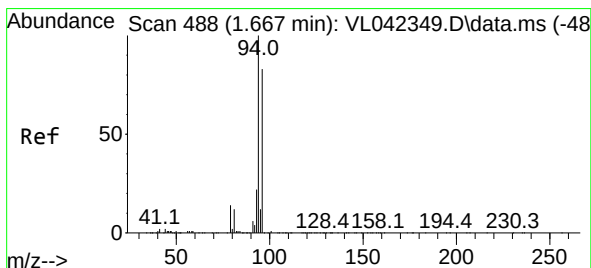
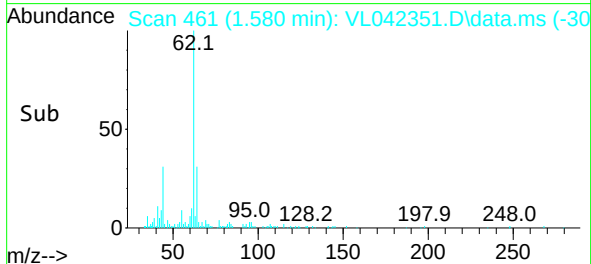
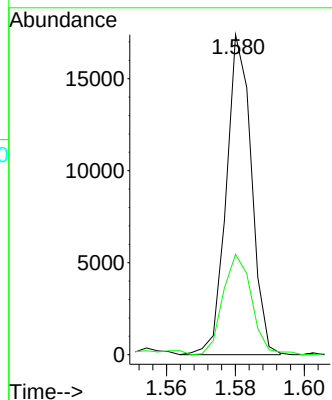
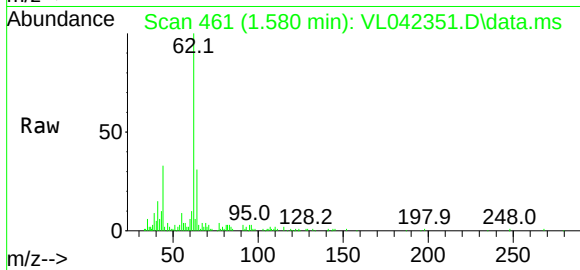
#5
 Vinyl Chloride
 Concen: 0.932 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. 0.000 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tgt Ion: 62 Resp: 880
 Ion Ratio Lower Upper
 62 100
 64 30.5 25.4 38.0

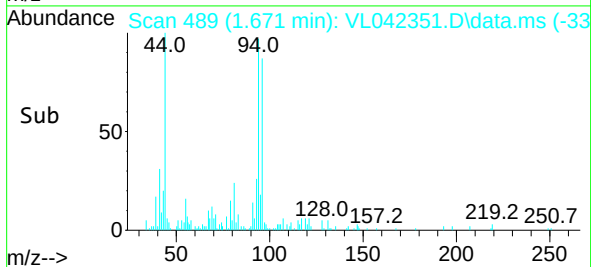
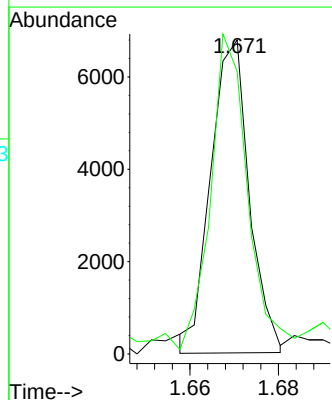
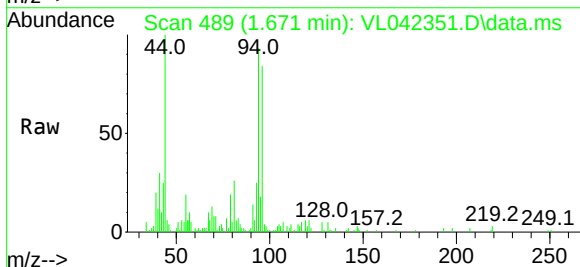
Manual Integrations
 APPROVED

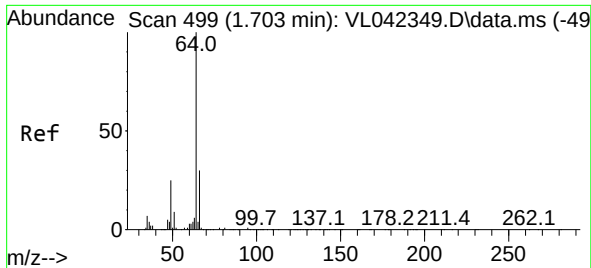
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#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

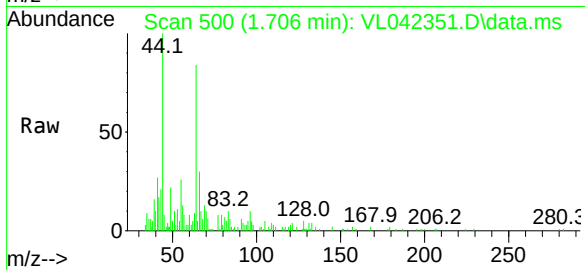
Tgt Ion: 94 Resp: 4099
 Ion Ratio Lower Upper
 94 100
 96 91.0 66.2 99.2





#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

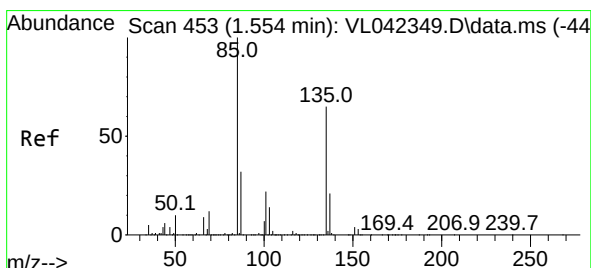
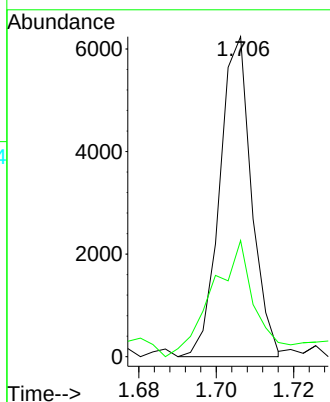
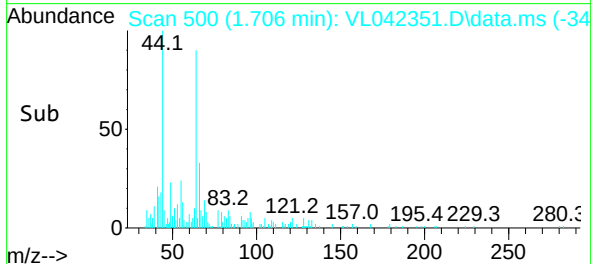
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



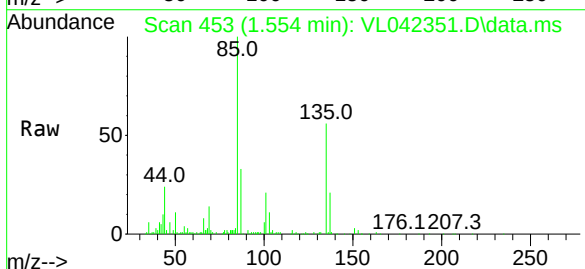
Tgt Ion: 64 Resp: 3559
Ion Ratio Lower Upper
64 100
66 36.3 24.6 37.0

Manual Integrations
APPROVED

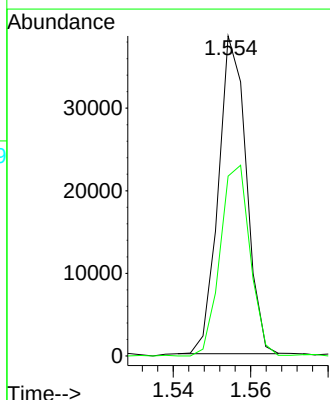
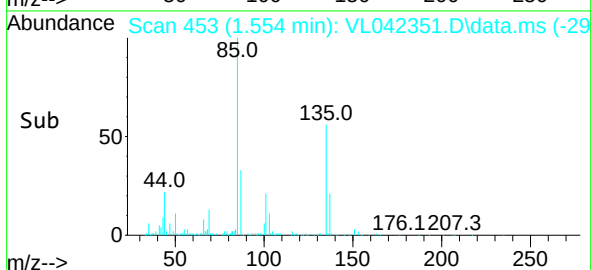
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

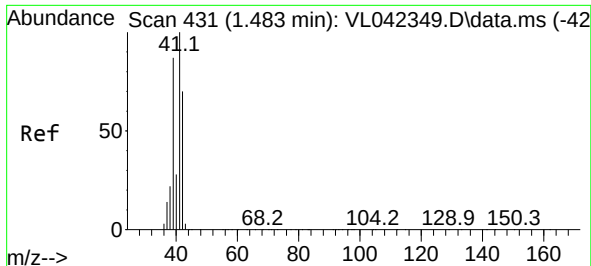


#8
Dichlorotetrafluoroethane
Concen: 1.022 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48



Tgt Ion: 85 Resp: 19251
Ion Ratio Lower Upper
85 100
135 65.2 52.2 78.2





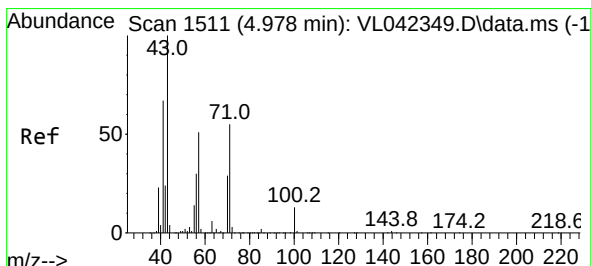
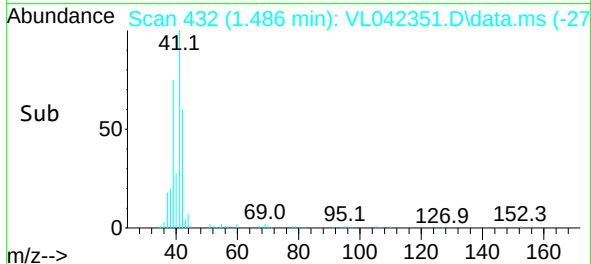
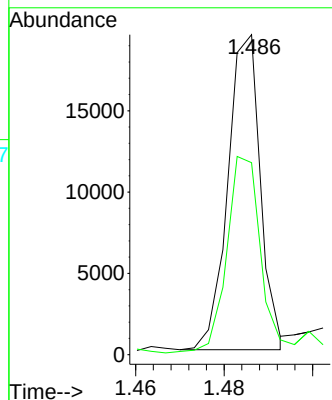
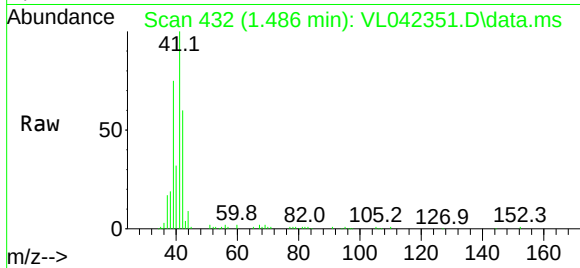
#9
 Propene
 Concen: 1.040 ppbv
 RT: 1.486 min Scan# 41
 Delta R.T. 0.004 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Tgt Ion: 41 Resp: 989
 Ion Ratio Lower Upper
 41 100
 42 77.2 56.2 84.4

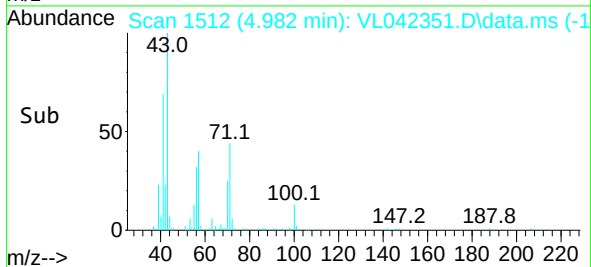
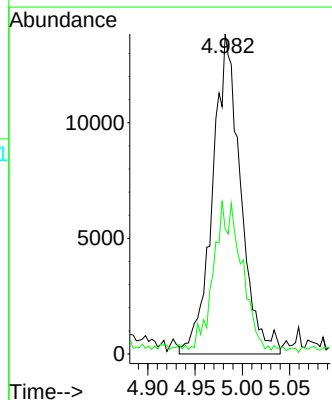
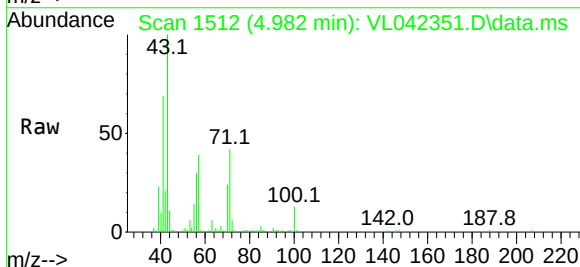
Manual Integrations
 APPROVED

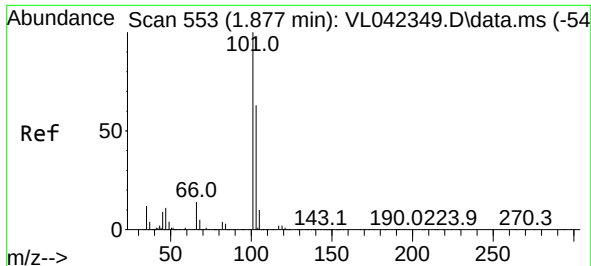
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#10
 Heptane
 Concen: 1.114 ppbv m
 RT: 4.982 min Scan# 1512
 Delta R.T. 0.004 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48

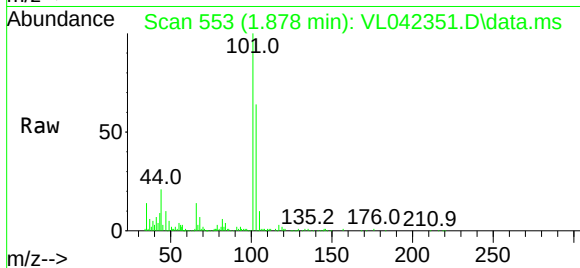
Tgt Ion: 43 Resp: 28507
 Ion Ratio Lower Upper
 43 100
 57 48.1 39.9 59.9





#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

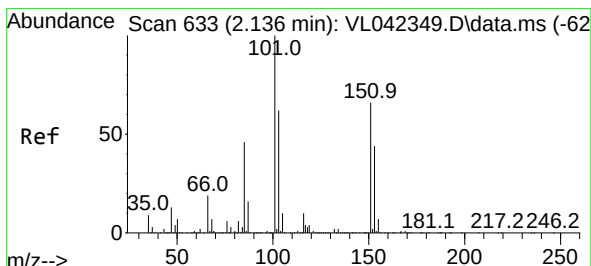
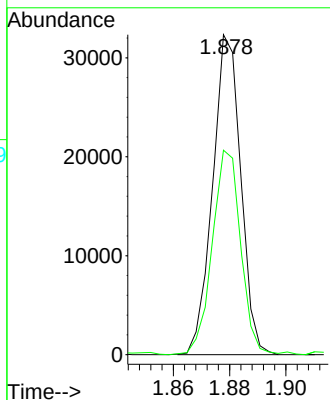
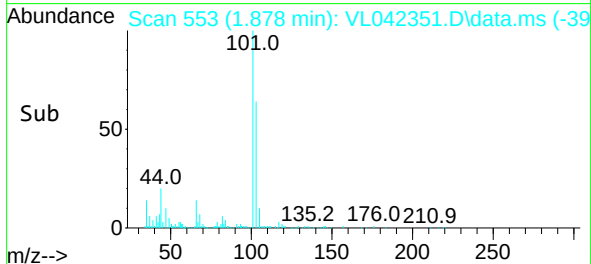
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001



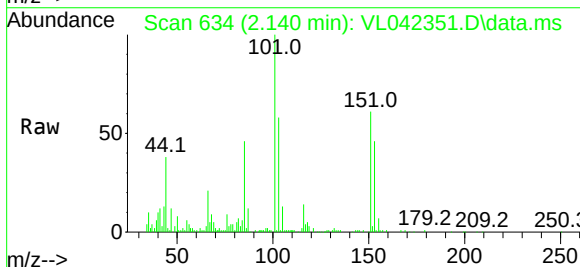
Tgt Ion:101 Resp: 22428
 Ion Ratio Lower Upper
 101 100
 103 63.6 50.1 75.1

Manual Integrations
 APPROVED

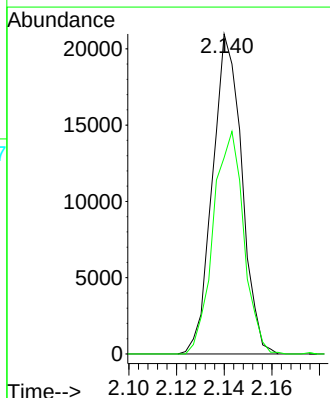
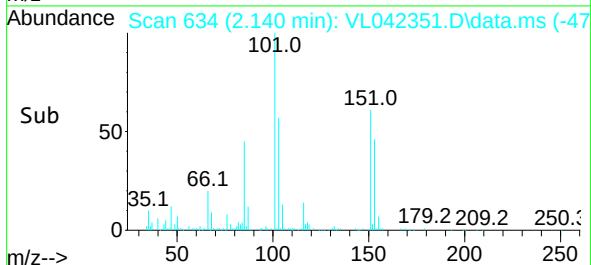
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

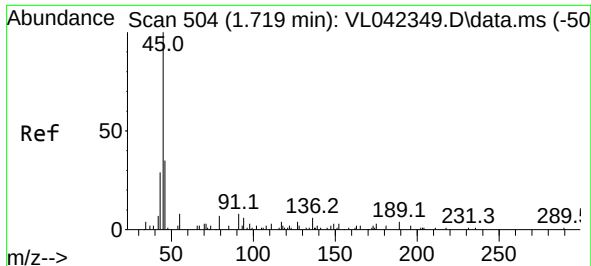


#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 1.047 ppbv
 RT: 2.140 min Scan# 634
 Delta R.T. 0.004 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48



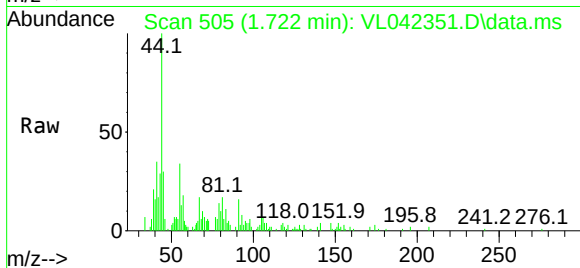
Tgt Ion:101 Resp: 17865
 Ion Ratio Lower Upper
 101 100
 151 72.6 57.0 85.6





#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

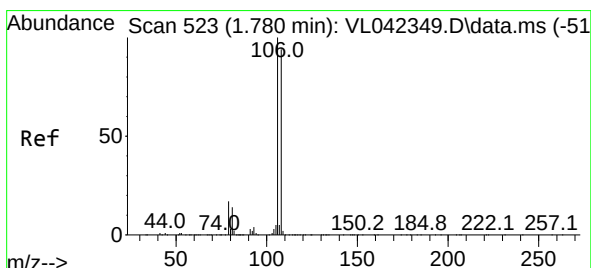
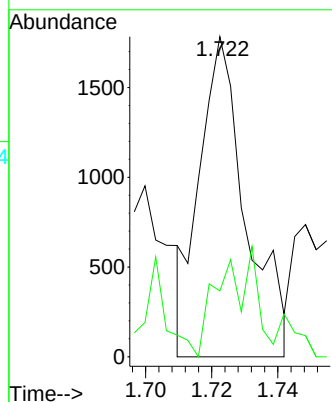
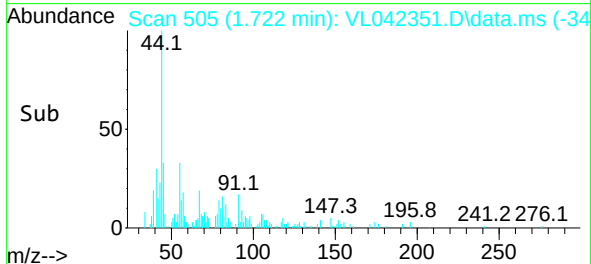
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



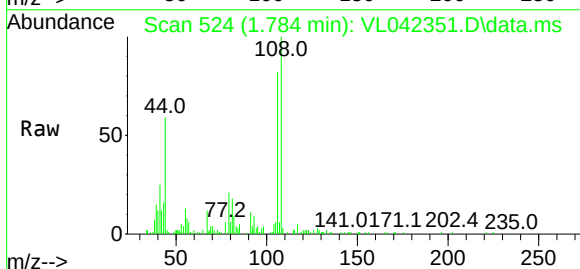
Tgt Ion: 45 Resp: 1730
Ion Ratio Lower Upper
45 100
46 44.9 21.9 87.7

Manual Integrations
APPROVED

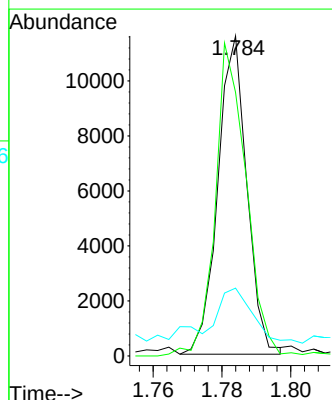
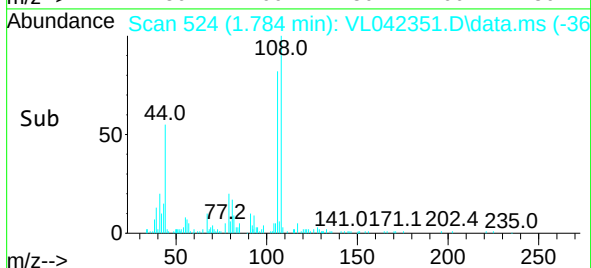
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

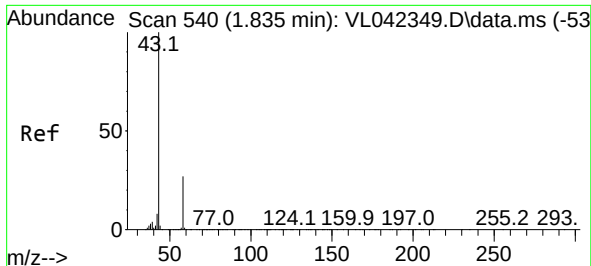


#14
Bromoethene
Concen: 1.052 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48



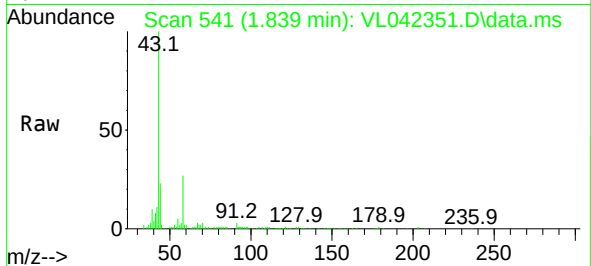
Tgt Ion:108 Resp: 6766
Ion Ratio Lower Upper
108 100
106 104.7 85.9 128.9
79 45.4 13.9 20.9





#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

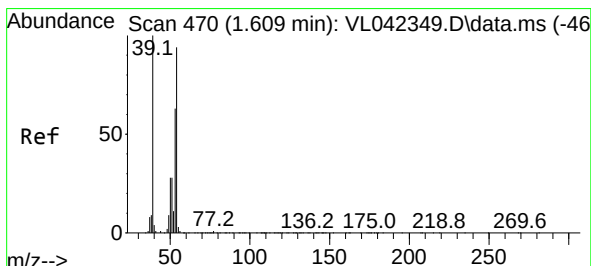
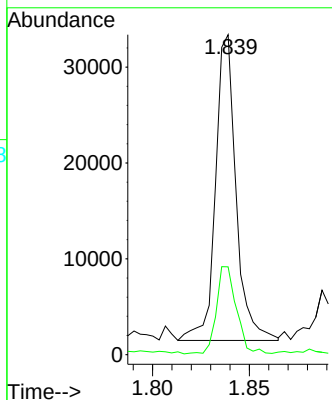
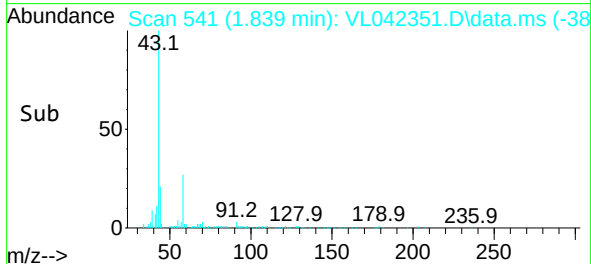
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



Tgt Ion: 43 Resp: 2353
Ion Ratio Lower Upper
43 100
58 29.4 22.4 33.6

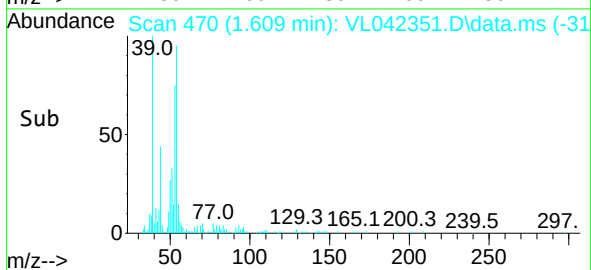
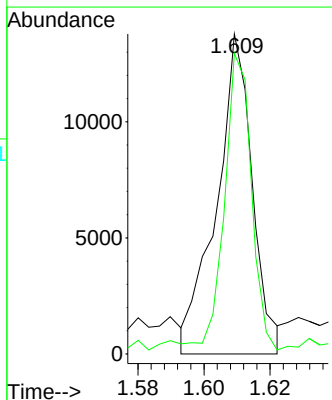
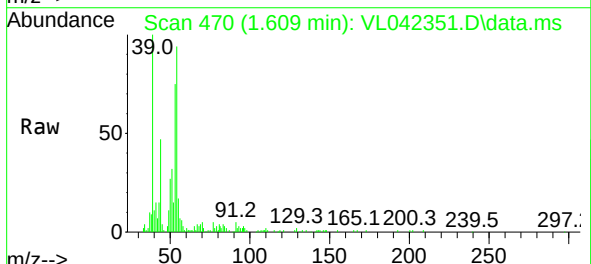
Manual Integrations
APPROVED

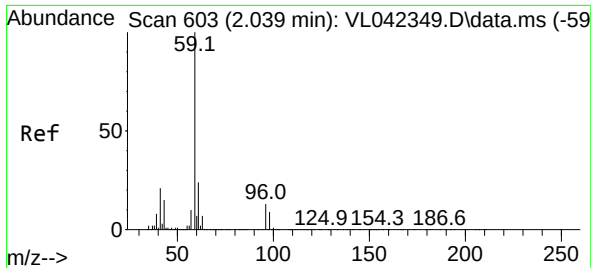
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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





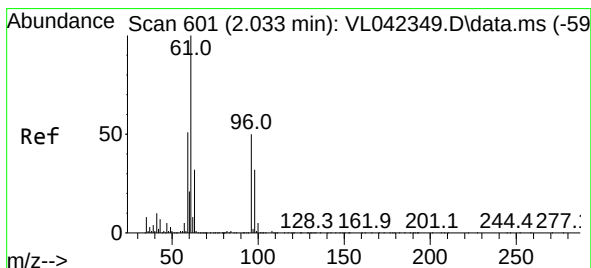
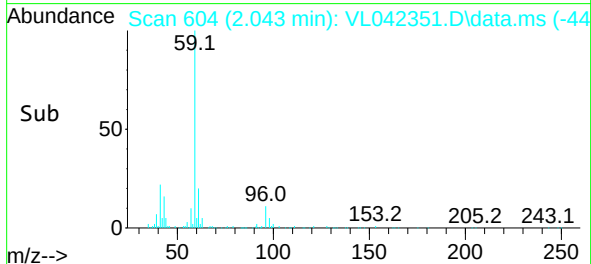
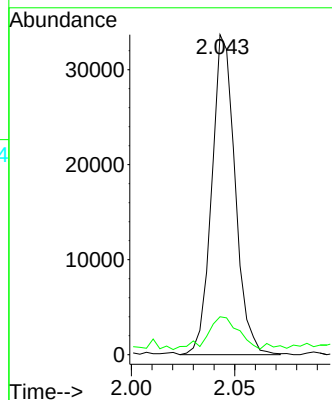
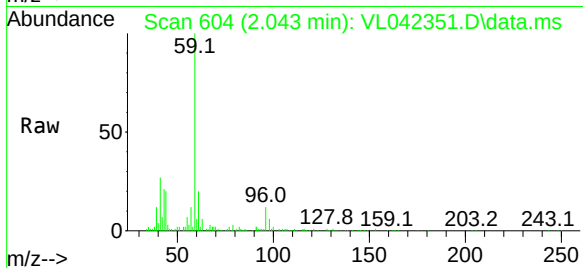
#17
tert-Butyl alcohol
Concen: 1.051 ppbv
RT: 2.043 min Scan# 603
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 59 Resp: 2647
Ion Ratio Lower Upper
59 100
57 14.6 8.7 13.1

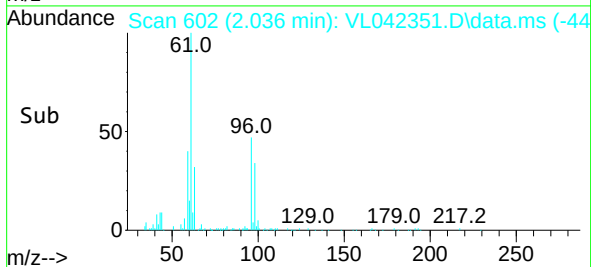
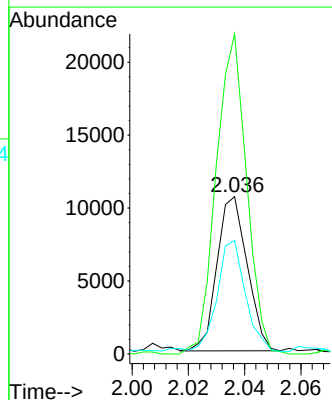
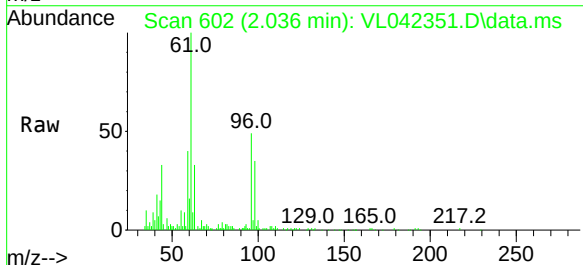
Manual Integrations
APPROVED

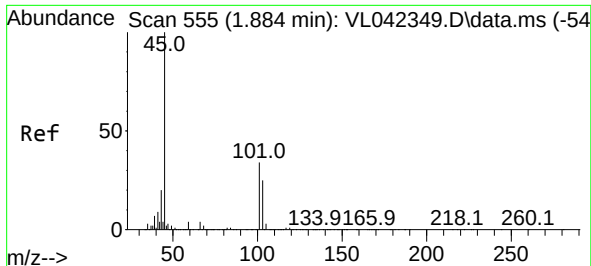
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#18
1,1-Dichloroethene
Concen: 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

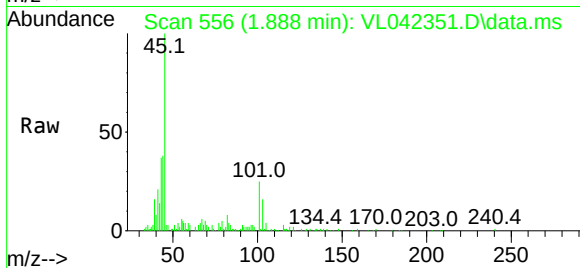
Tgt Ion: 96 Resp: 7890
Ion Ratio Lower Upper
96 100
61 207.8 160.2 240.2
98 71.9 51.0 76.4





#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

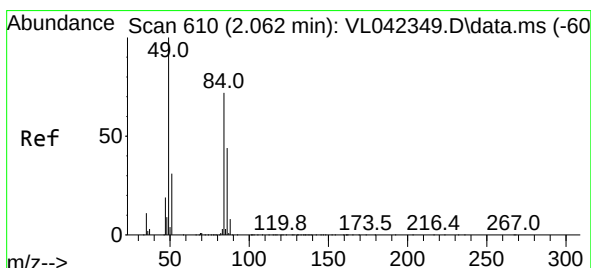
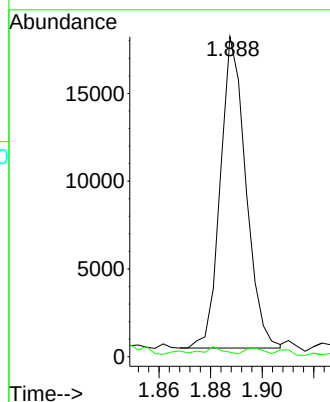
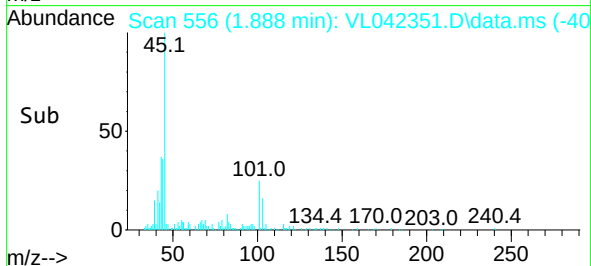
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



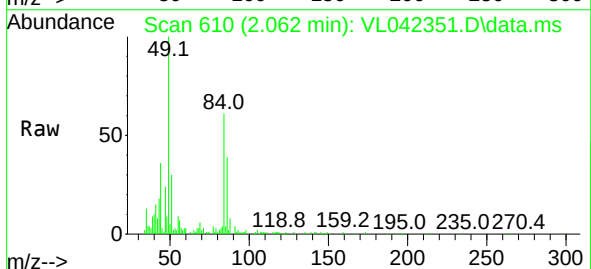
Tgt Ion: 45 Resp: 1217
Ion Ratio Lower Upper
45 100
58 3.8 34.5 51.7

Manual Integrations
APPROVED

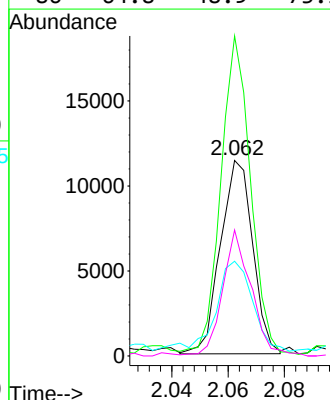
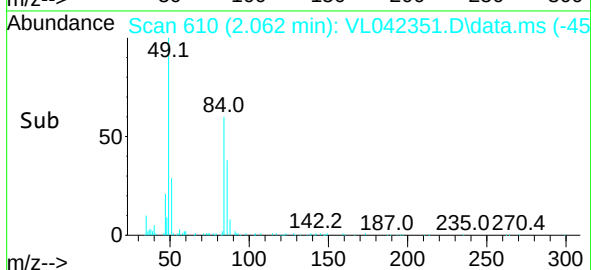
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

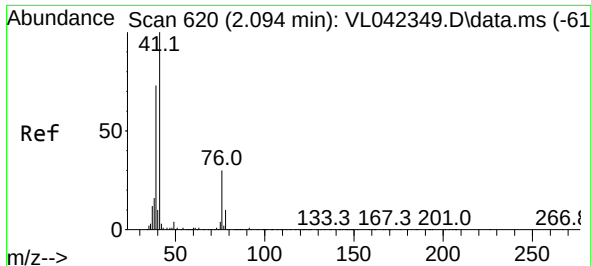


#20
Methylene Chloride
Concen: 1.136 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48



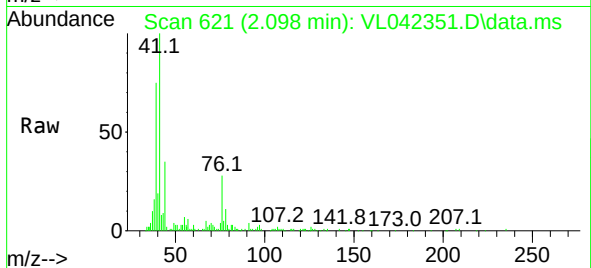
Tgt Ion: 84 Resp: 9046
Ion Ratio Lower Upper
84 100
49 164.4 111.6 167.4
51 44.4 35.1 52.7
86 64.8 48.9 73.3





#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

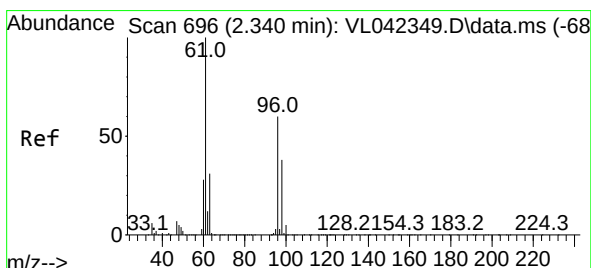
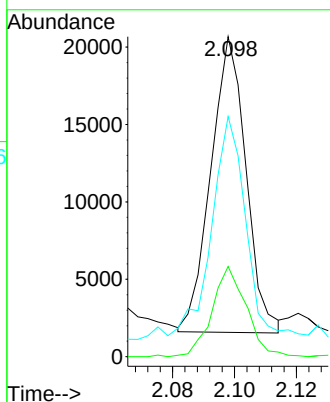
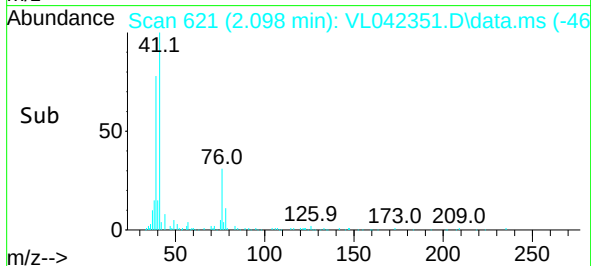
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001



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

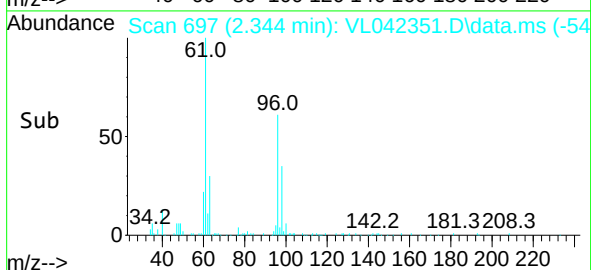
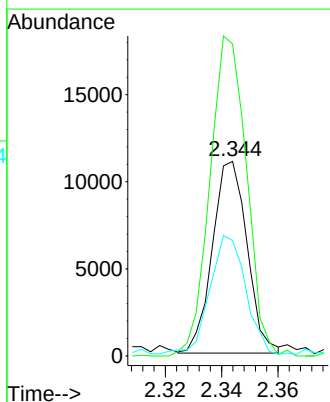
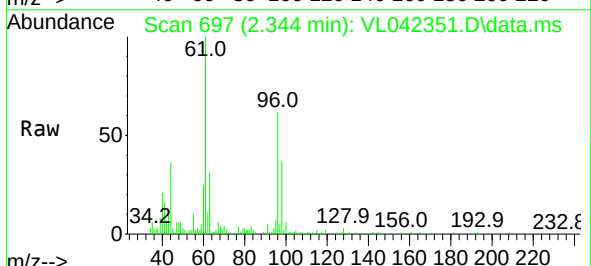
Manual Integrations
 APPROVED

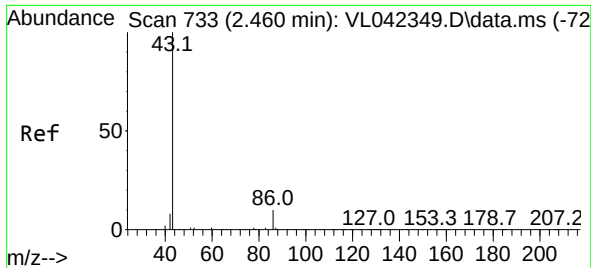
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#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





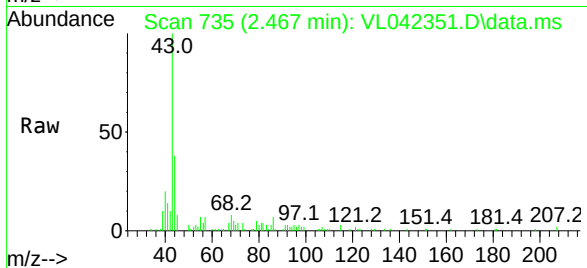
#23
 Vinyl Acetate
 Concen: 1.122 ppbv
 RT: 2.467 min Scan# 717
 Delta R.T. 0.007 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC001

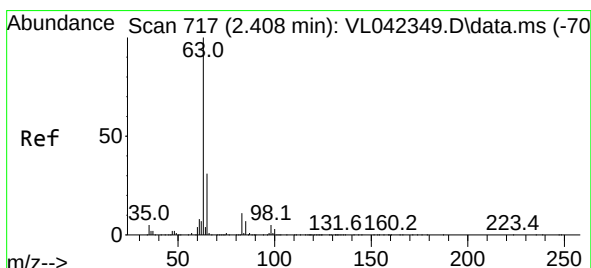
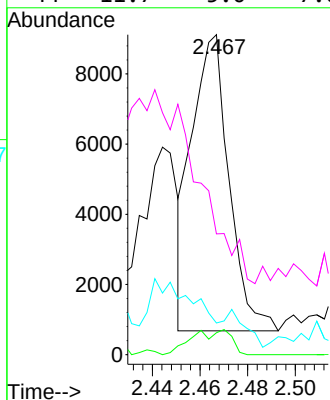
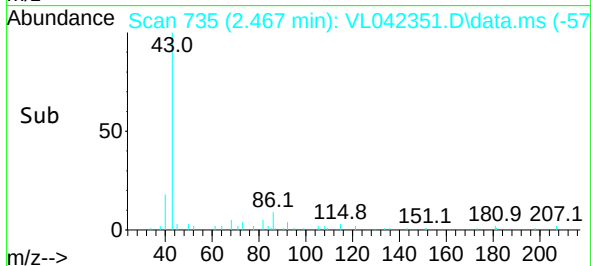


Tgt Ion: 43 Resp: 9234
 Ion Ratio Lower Upper
 43 100
 86 7.4 6.5 9.7
 42 4.6 7.8 11.8
 44 11.7 5.0 7.6#

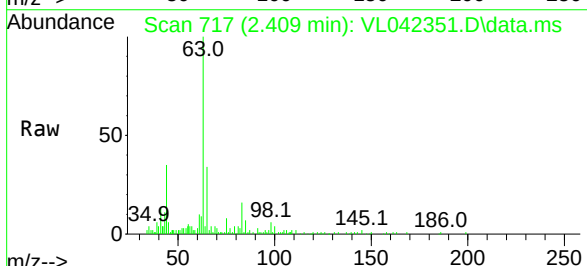
Manual Integrations

APPROVED

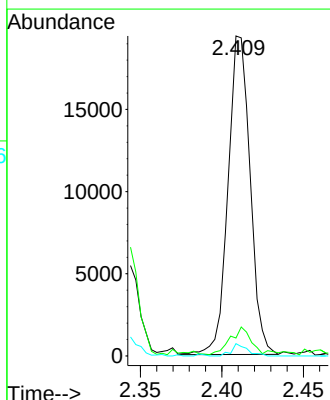
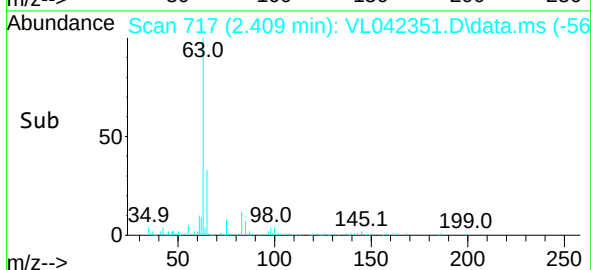
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

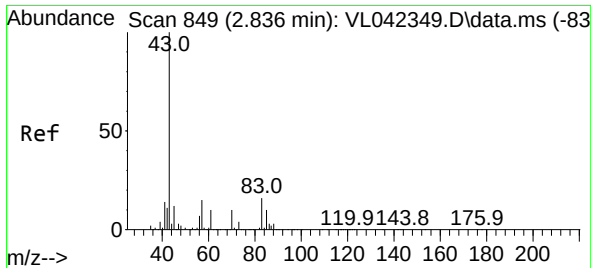


#24
 1,1-Dichloroethane
 Concen: 1.058 ppbv
 RT: 2.409 min Scan# 717
 Delta R.T. 0.000 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48



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





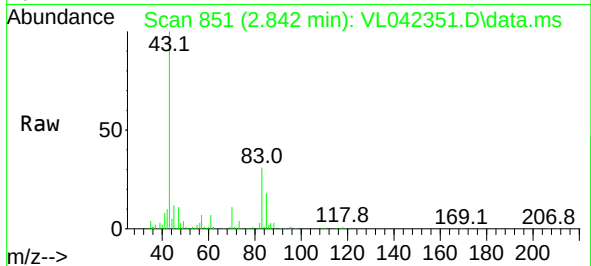
#25
Ethyl Acetate
Concen: 1.027 ppbv
RT: 2.842 min Scan# 849
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC001

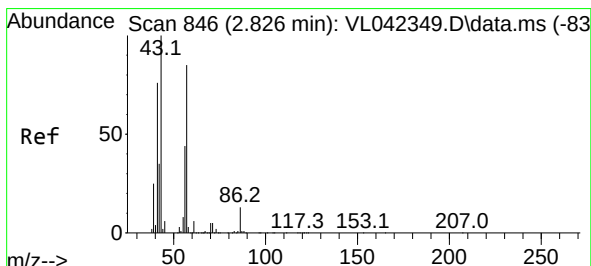
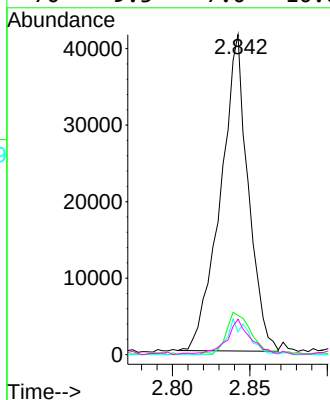
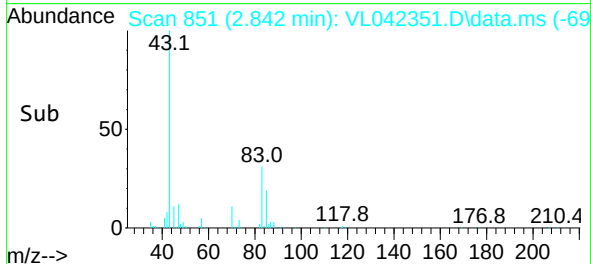


Tgt Ion: 43 Resp: 51494
Ion Ratio Lower Upper
43 100
45 13.1 8.3 12.5
61 9.0 7.3 10.9
70 9.3 7.0 10.6

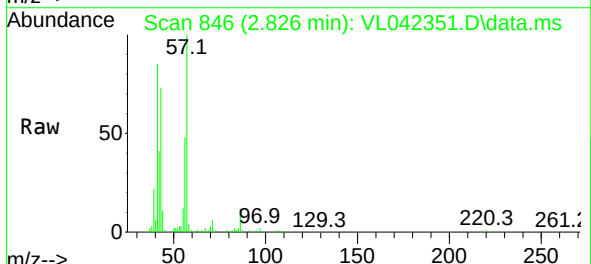
Manual Integrations

APPROVED

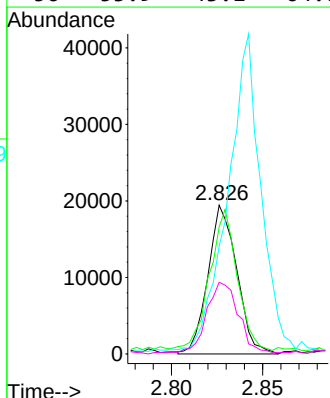
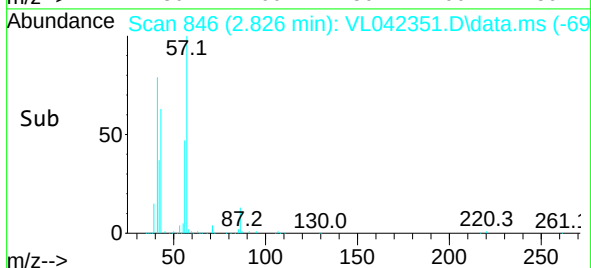
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

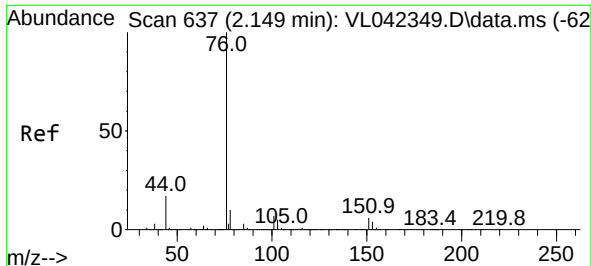


#26
Hexane
Concen: 1.053 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48



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 :

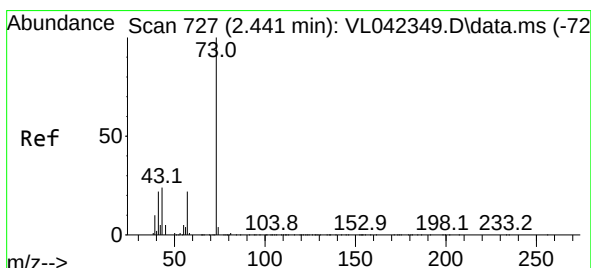
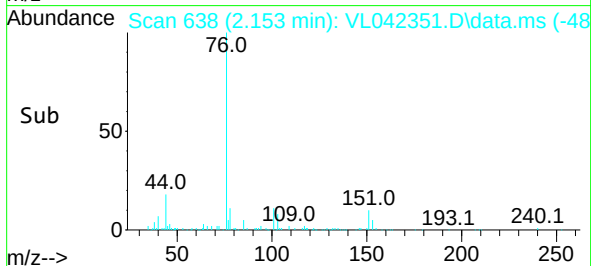
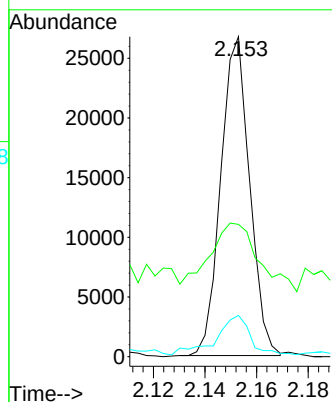
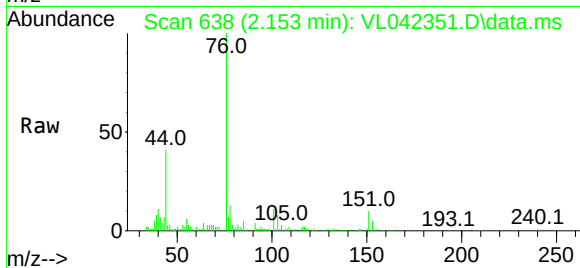
VSTDICC001

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

APPROVED

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



#28

Methyl tert-Butyl Ether

Concen: 1.066 ppbv

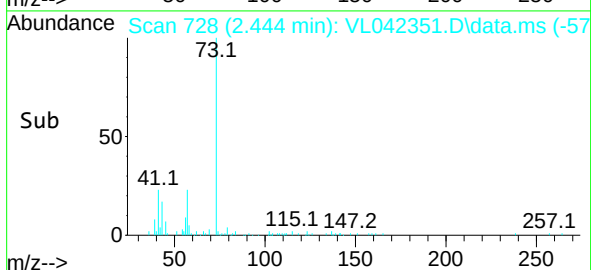
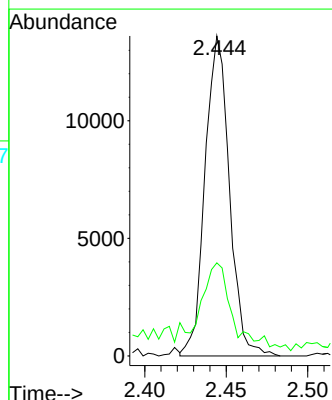
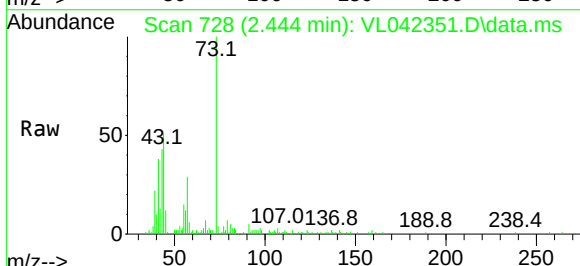
RT: 2.444 min Scan# 728

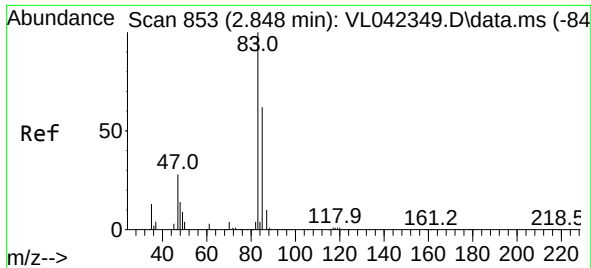
Delta R.T. 0.004 min

Lab File: VL042351.D

Acq: 17 Apr 2025 10:48

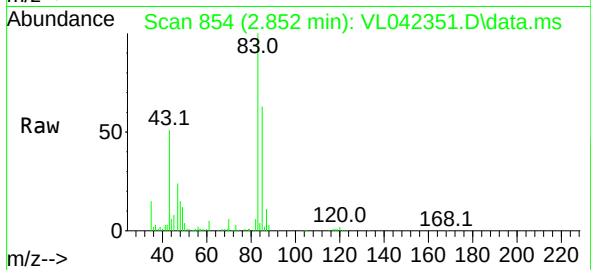
Tgt Ion: 73 Resp: 14164
 Ion Ratio Lower Upper
 73 100
 57 34.2 21.3 31.9





#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

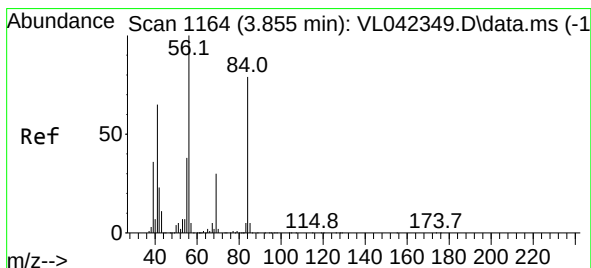
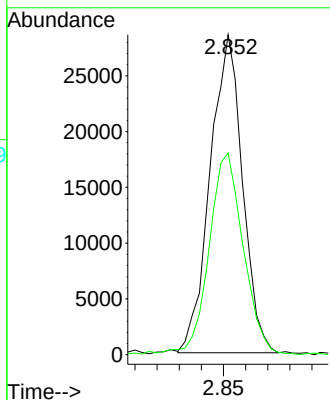
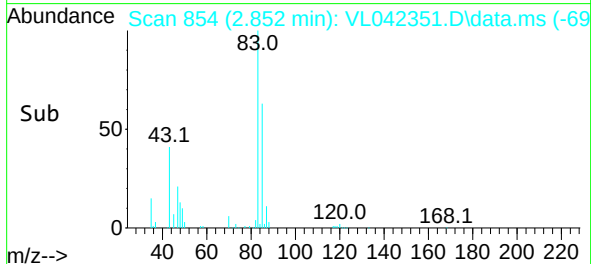
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



Tgt Ion: 83 Resp: 2897
Ion Ratio Lower Upper
83 100
85 62.6 50.0 75.0

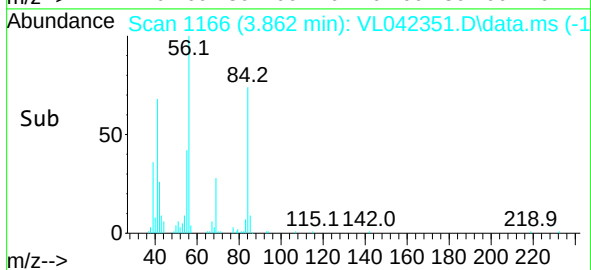
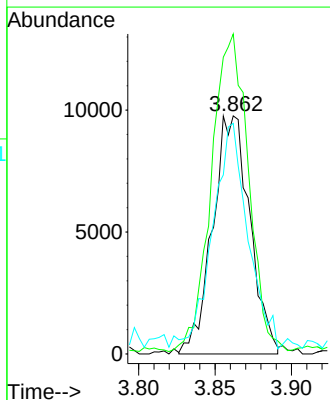
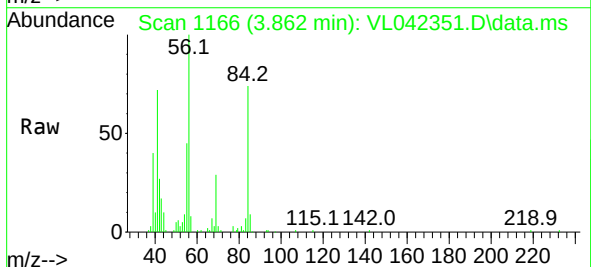
Manual Integrations
APPROVED

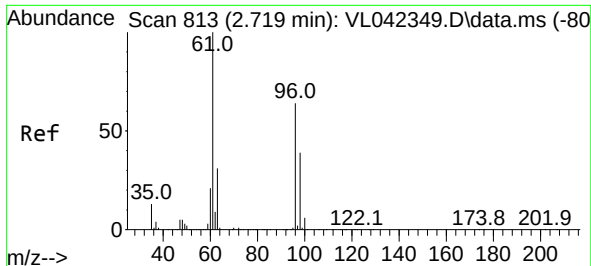
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

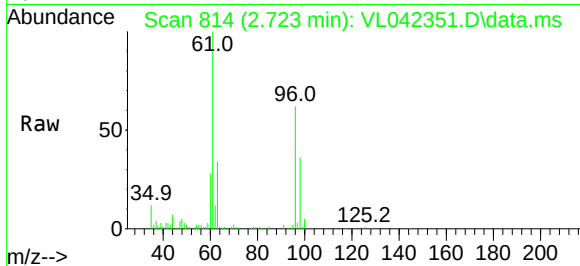
Tgt Ion: 84 Resp: 16547
Ion Ratio Lower Upper
84 100
56 134.2 101.0 151.4
41 85.1 67.4 101.0





#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

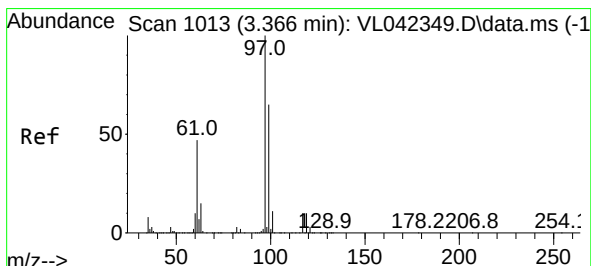
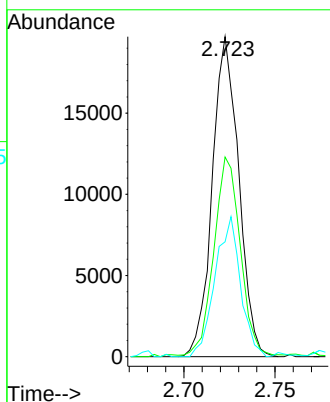
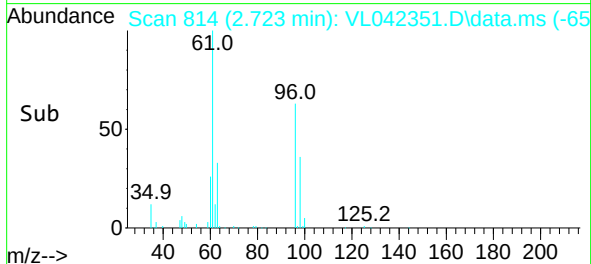
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001



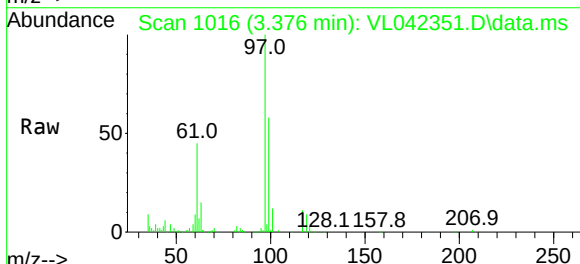
Tgt Ion: 61 Resp: 19904
 Ion Ratio Lower Upper
 61 100
 96 61.9 50.8 76.2
 98 35.9 30.9 46.3

Manual Integrations
 APPROVED

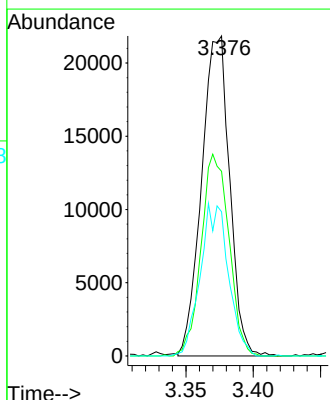
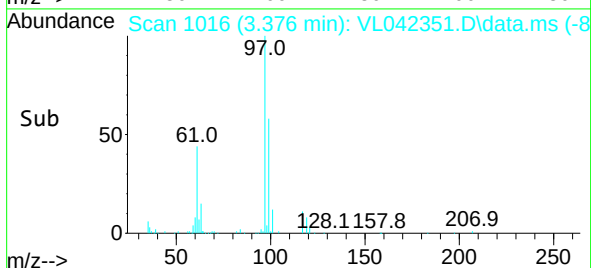
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

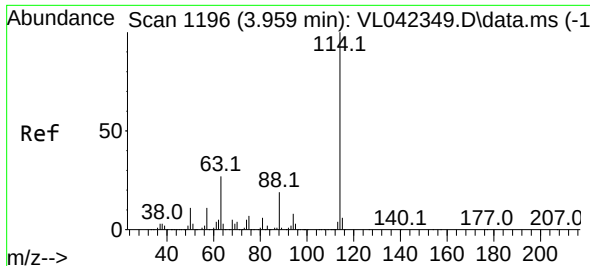


#32
 1,1,1-Trichloroethane
 Concen: 1.030 ppbv
 RT: 3.376 min Scan# 1016
 Delta R.T. 0.010 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48



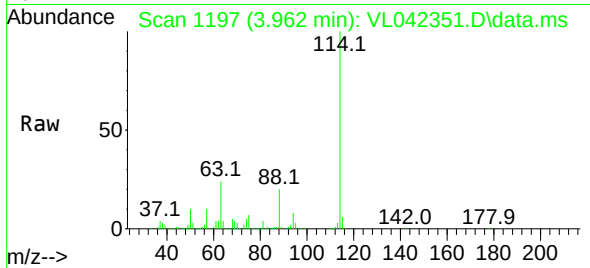
Tgt Ion: 97 Resp: 31653
 Ion Ratio Lower Upper
 97 100
 99 62.4 51.0 76.4
 61 47.6 38.8 58.2





#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

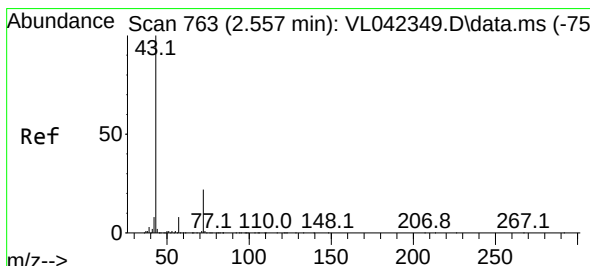
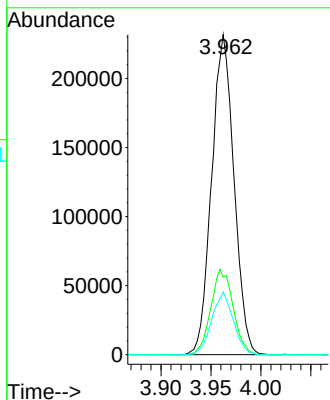
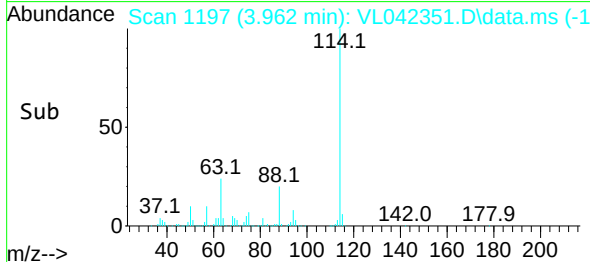
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



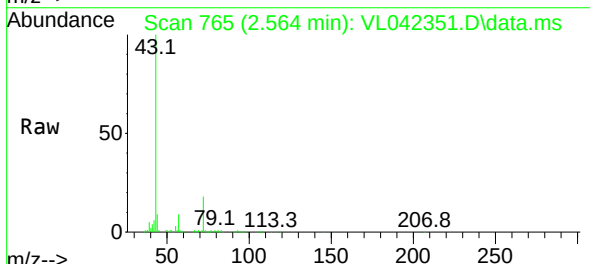
Tgt Ion:114 Resp: 35990
Ion Ratio Lower Upper
114 100
63 26.7 21.8 32.6
88 18.8 15.5 23.3

Manual Integrations
APPROVED

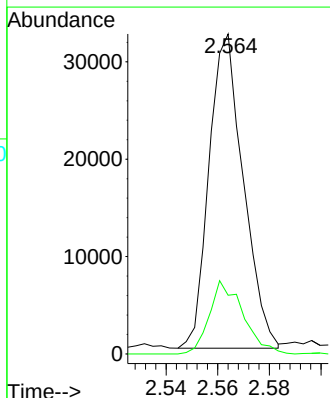
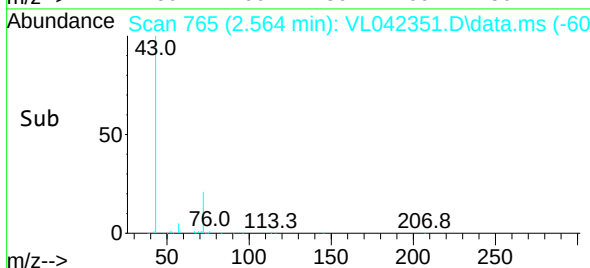
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

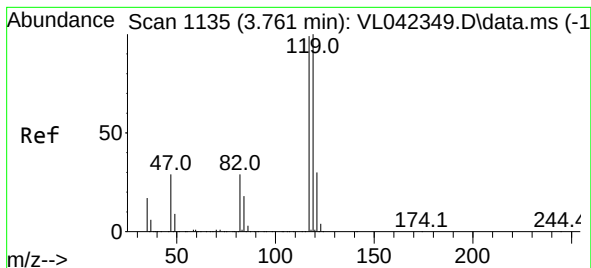


#34
2-Butanone
Concen: 1.045 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48



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 :

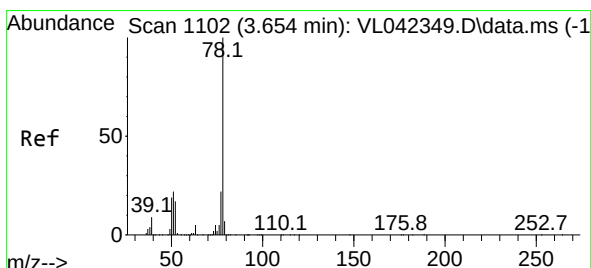
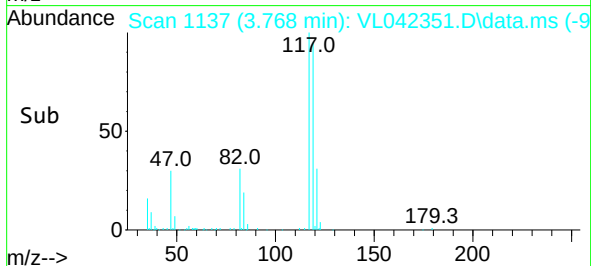
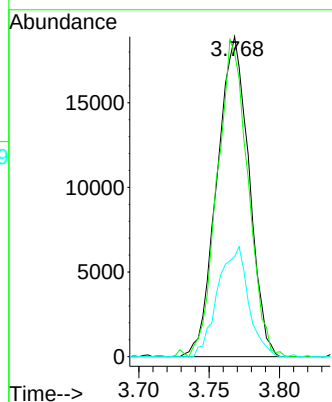
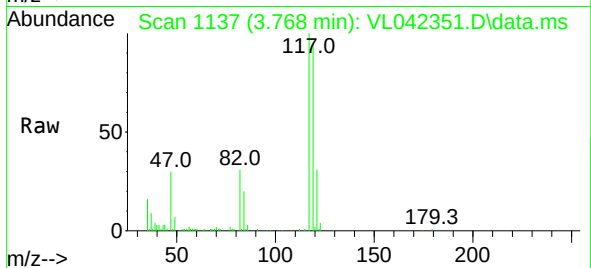
VSTDICC001

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

APPROVED

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



#36

Benzene

Concen: 0.997 ppbv

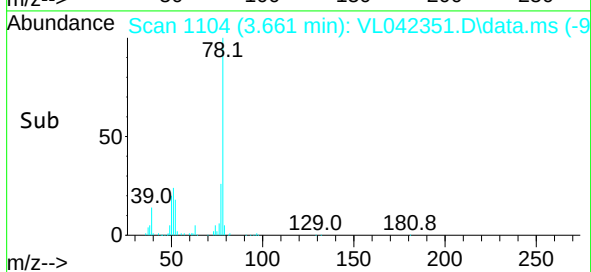
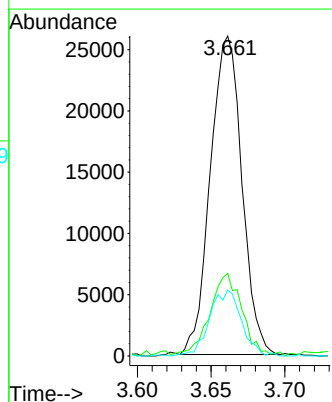
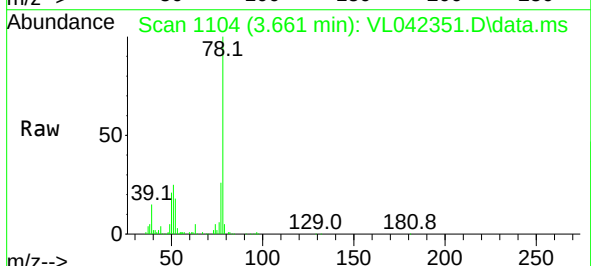
RT: 3.661 min Scan# 1104

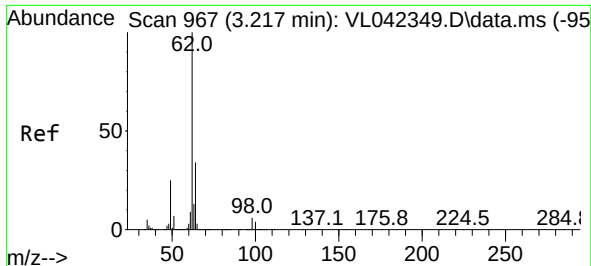
Delta R.T. 0.007 min

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

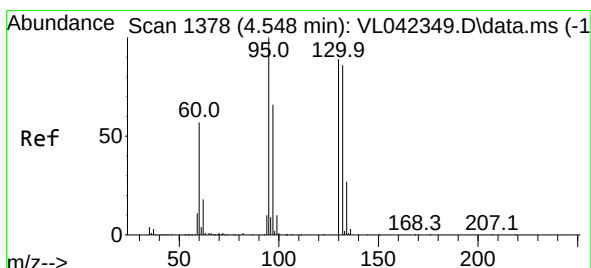
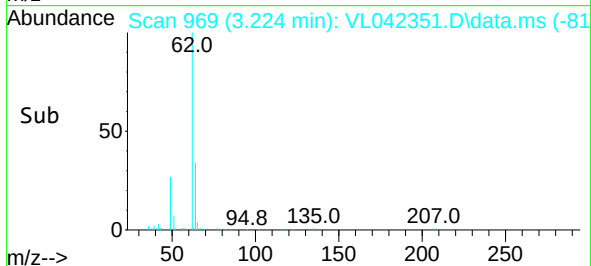
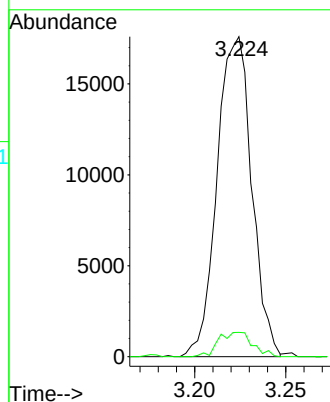
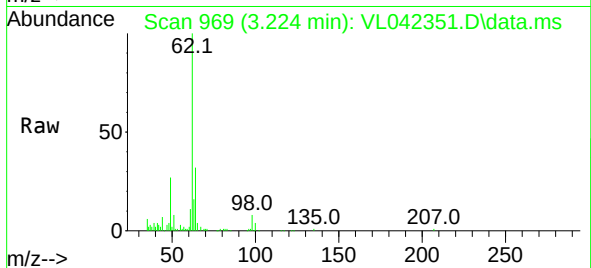
98 7.5 5.1 7.7

Manual Integrations

APPROVED

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

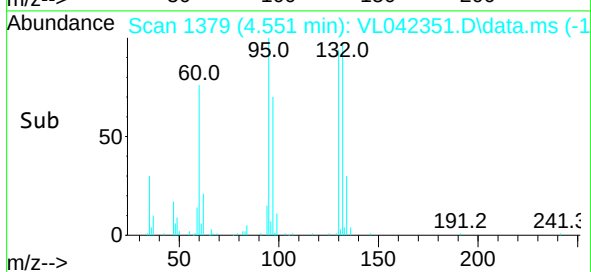
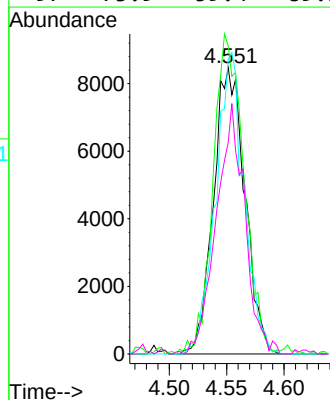
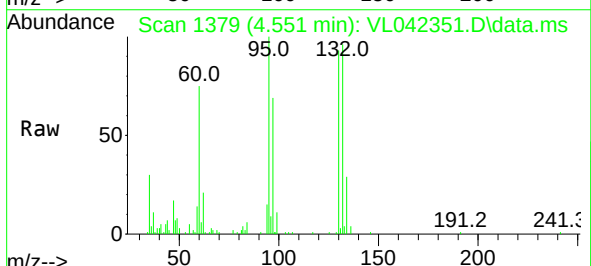
Ion Ratio Lower Upper

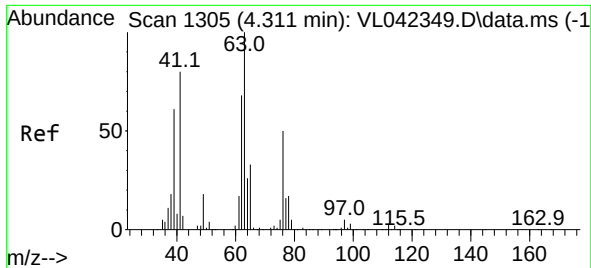
130 100

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 :

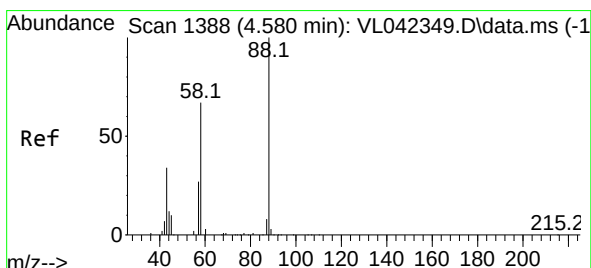
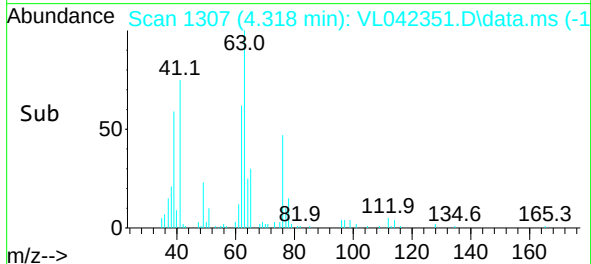
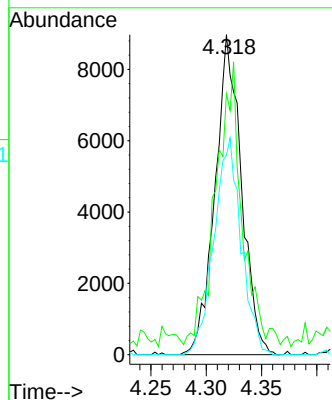
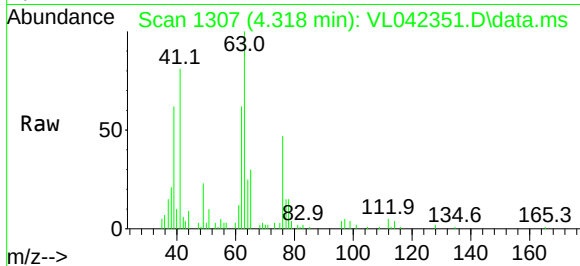
VSTDICC001

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

APPROVED

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



#40

1,4-Dioxane

Concen: 1.114 ppbv m

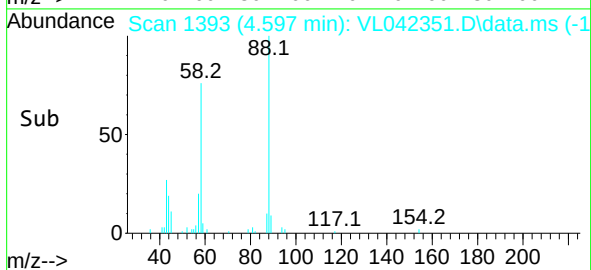
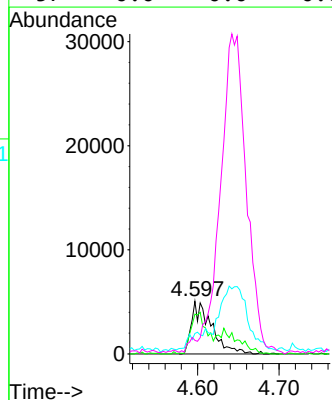
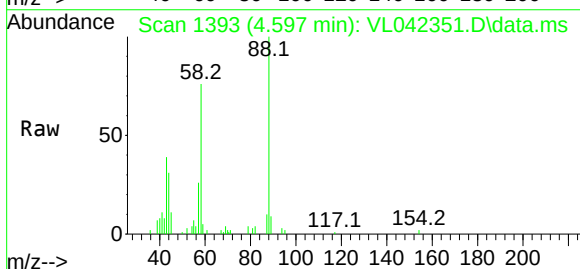
RT: 4.597 min Scan# 1393

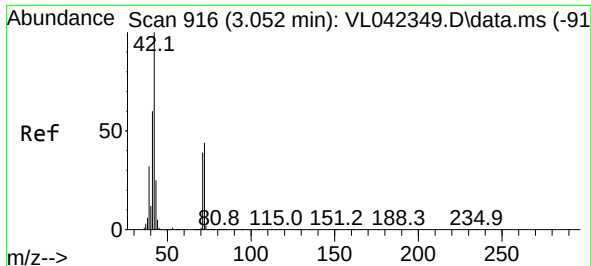
Delta R.T. 0.017 min

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





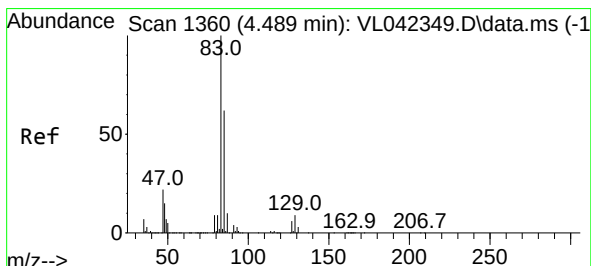
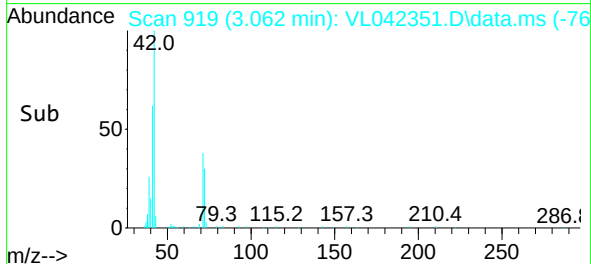
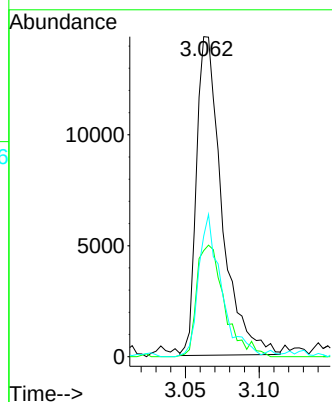
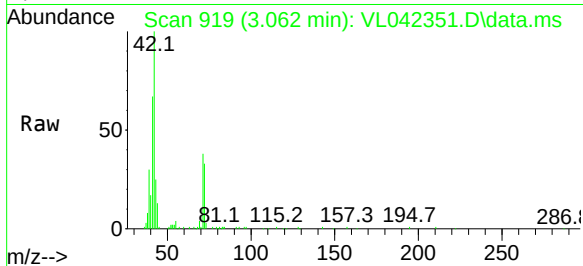
#41
Tetrahydrofuran
Concen: 1.049 ppbv
RT: 3.062 min Scan# 916
Delta R.T. 0.010 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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

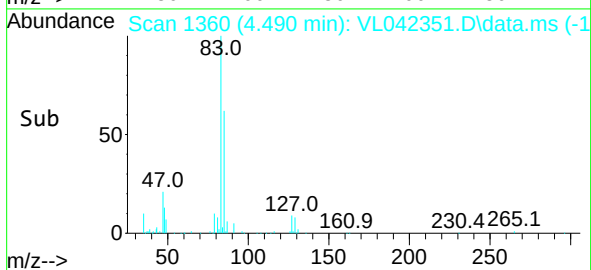
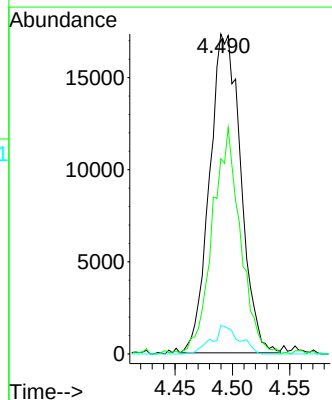
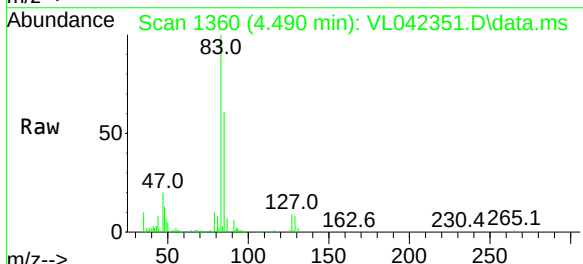
Manual Integrations
APPROVED

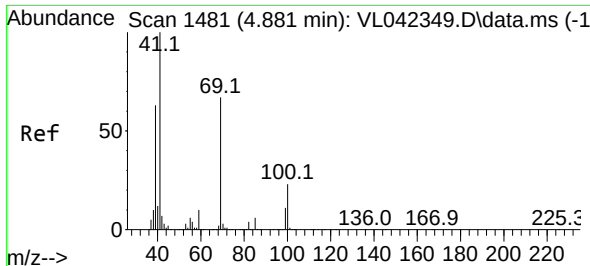
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

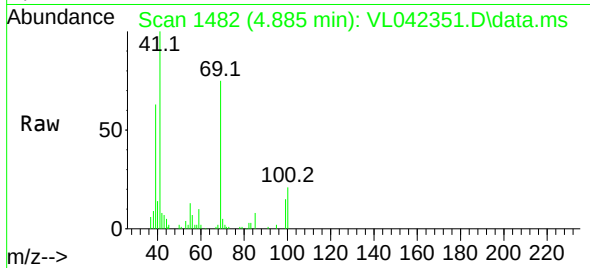
Tgt Ion: 83 Resp: 32721
Ion Ratio Lower Upper
83 100
85 61.2 49.7 74.5
127 8.9 5.1 7.7#





#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

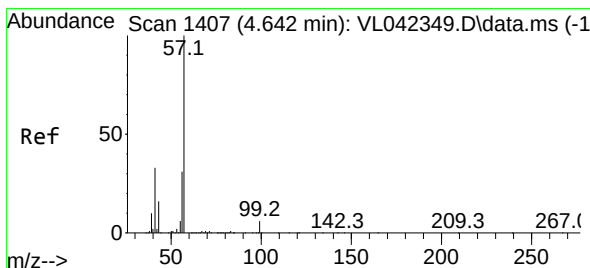
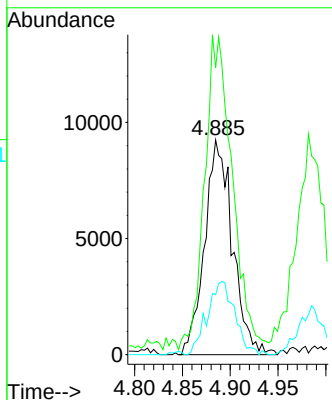
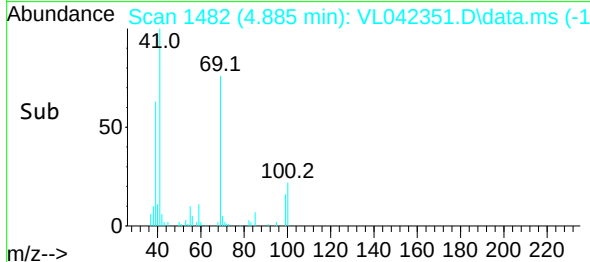
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



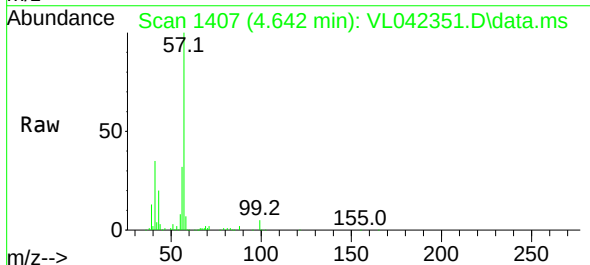
Tgt Ion: 69 Resp: 18699
Ion Ratio Lower Upper
69 100
41 149.3 118.6 177.8
100 0.0 28.2 42.2

Manual Integrations
APPROVED

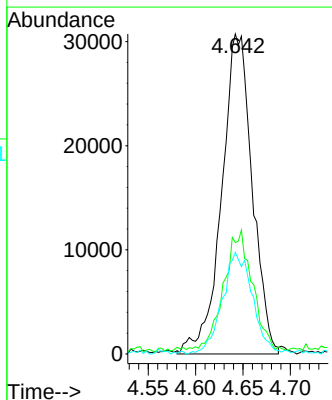
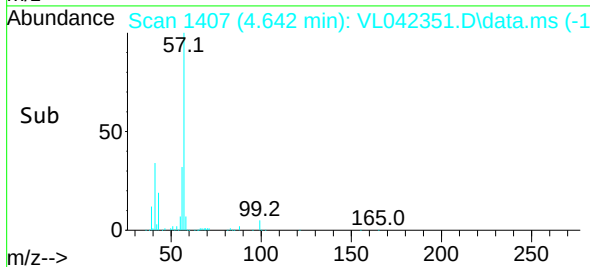
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

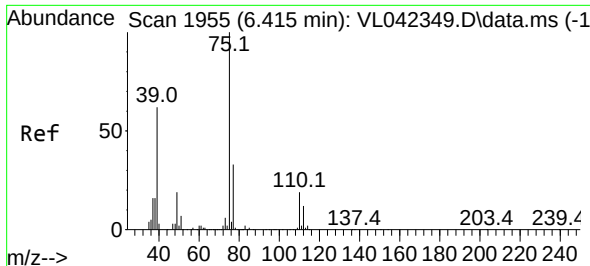


#44
2,2,4-Trimethylpentane
Concen: 1.027 ppbv m
RT: 4.642 min Scan# 1407
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48



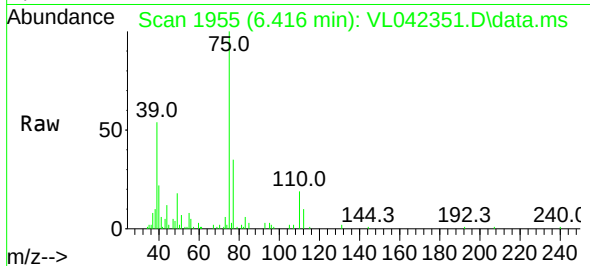
Tgt Ion: 57 Resp: 68946
Ion Ratio Lower Upper
57 100
41 37.9 27.2 40.8
56 0.0 25.7 38.5





#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

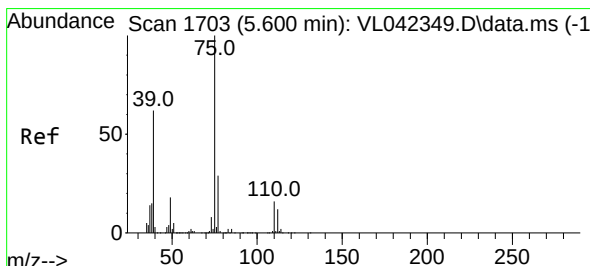
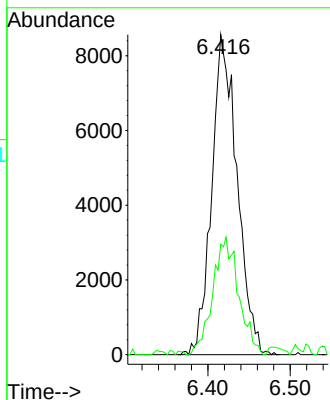
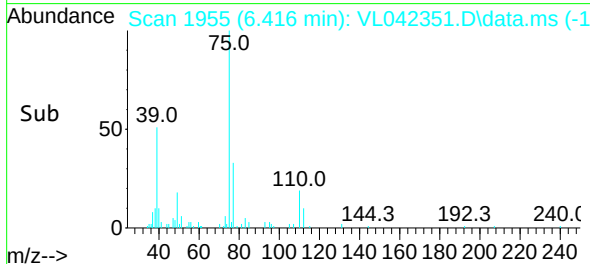
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001



Tgt Ion: 75 Resp: 1834
 Ion Ratio Lower Upper
 75 100
 77 34.5 27.0 40.6

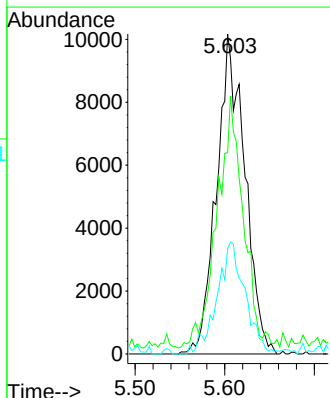
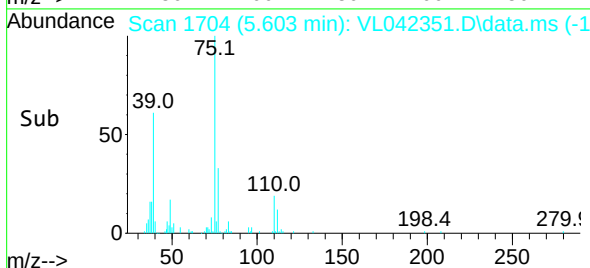
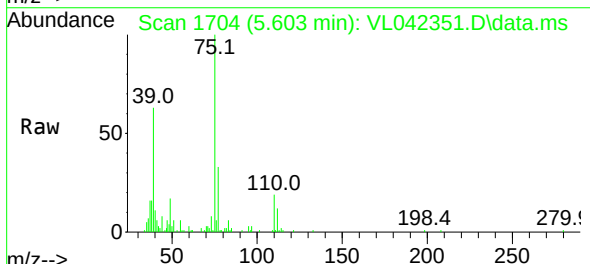
Manual Integrations
 APPROVED

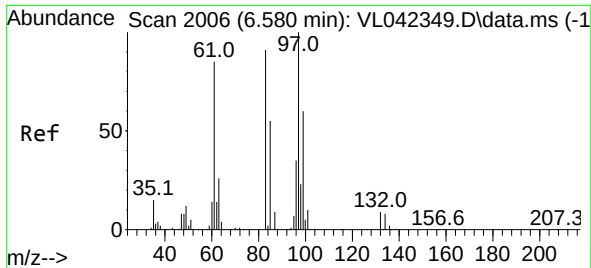
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#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





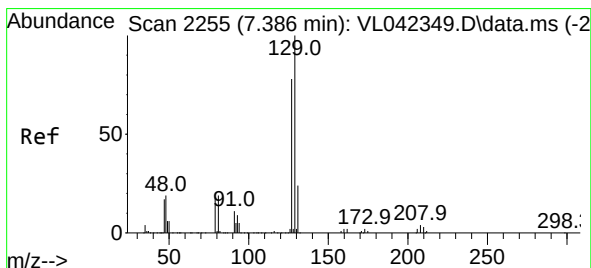
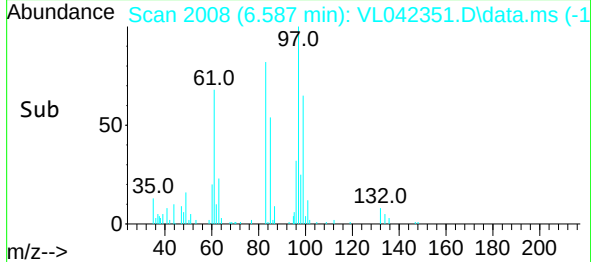
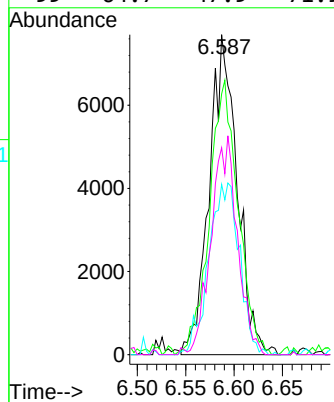
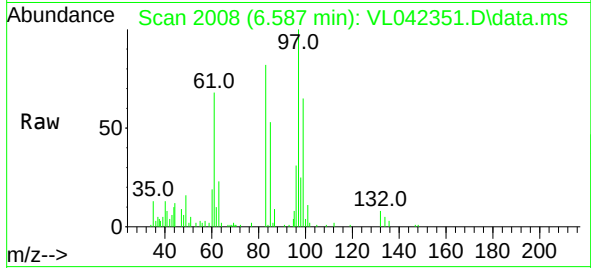
#47
1,1,2-Trichloroethane
Concen: 1.048 ppbv m
RT: 6.587 min Scan# 2006
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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

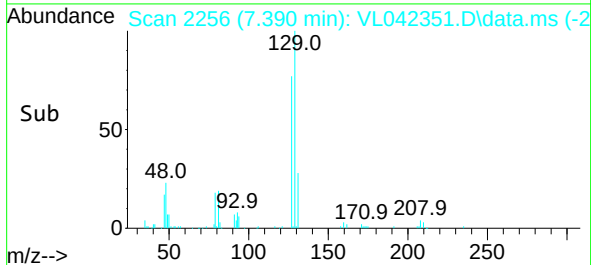
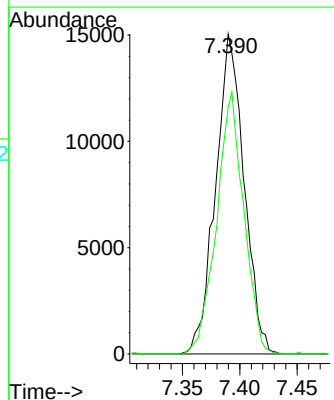
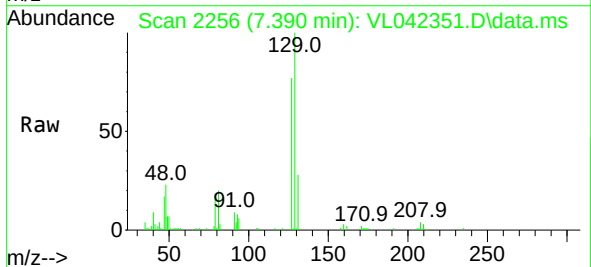
Manual Integrations
APPROVED

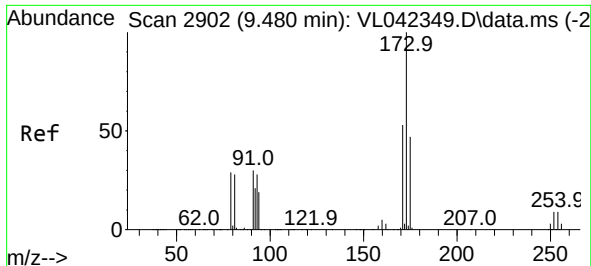
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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





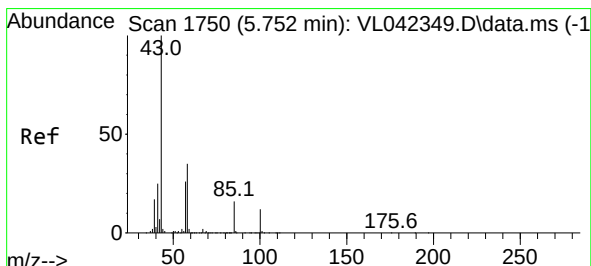
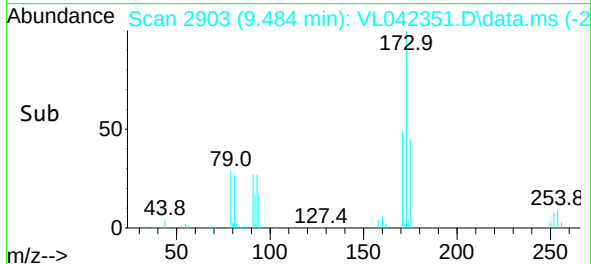
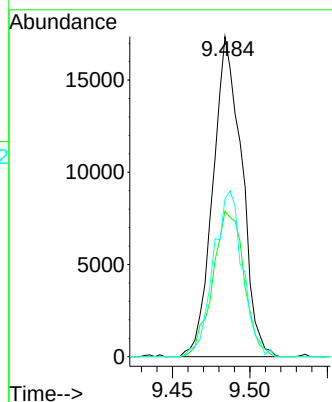
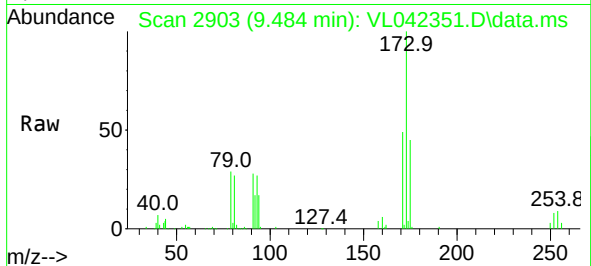
#49
Bromoform
Concen: 0.984 ppbv
RT: 9.484 min Scan# 2902
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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

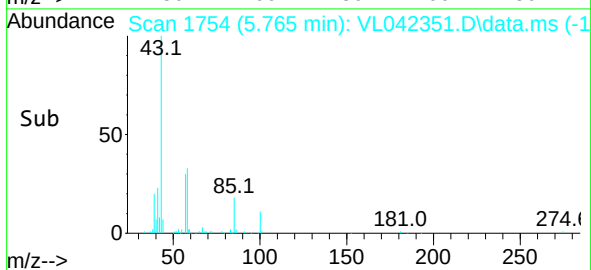
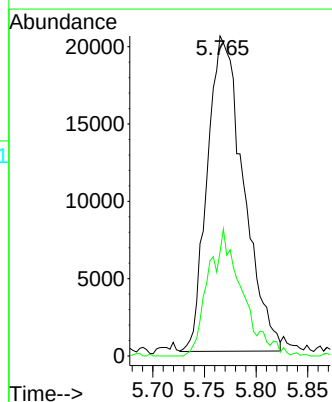
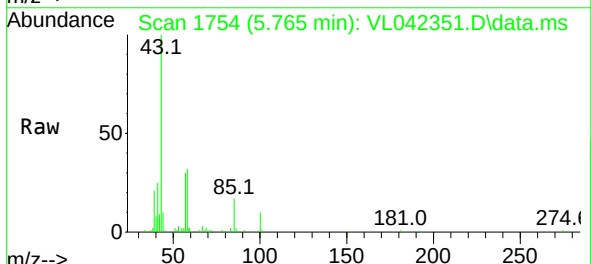
Manual Integrations
APPROVED

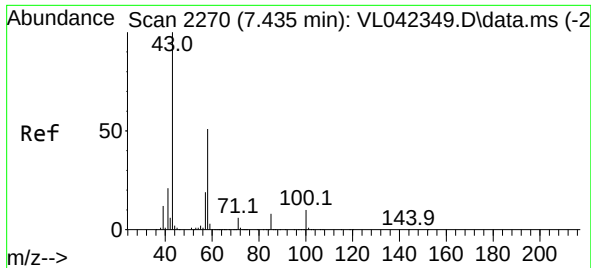
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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





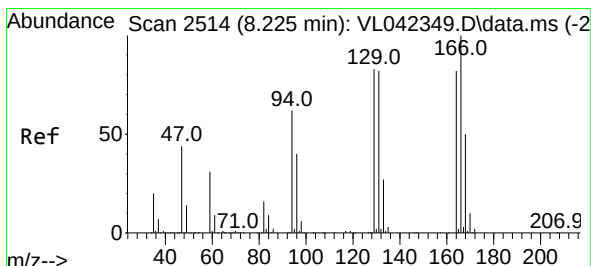
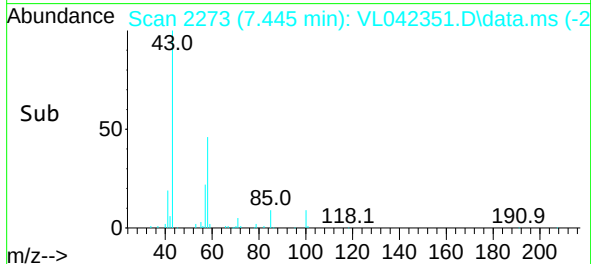
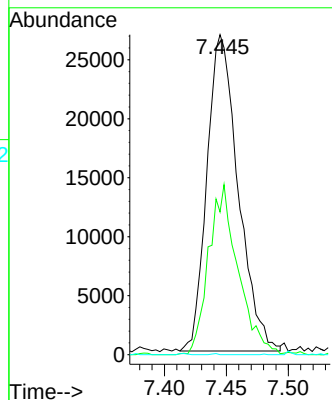
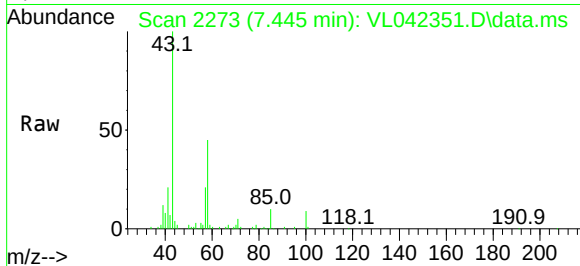
#51
2-Hexanone
Concen: 1.103 ppbv
RT: 7.445 min Scan# 2115
Delta R.T. 0.010 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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

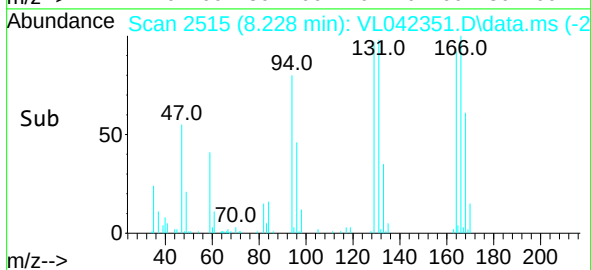
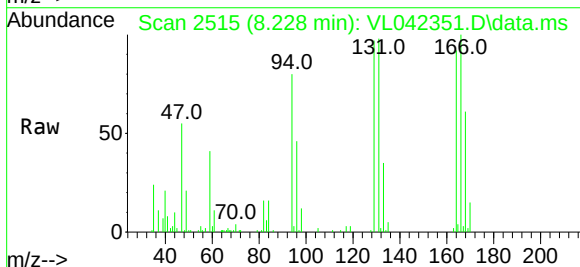
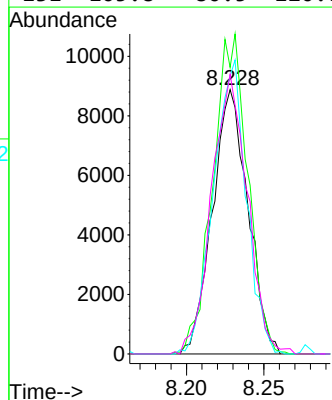
Manual Integrations
APPROVED

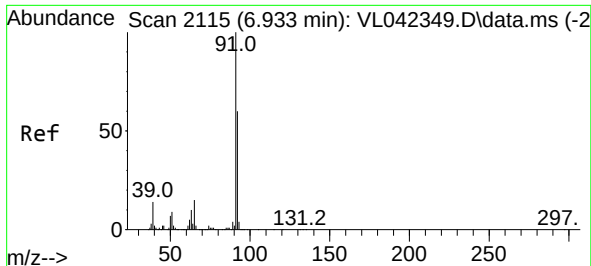
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

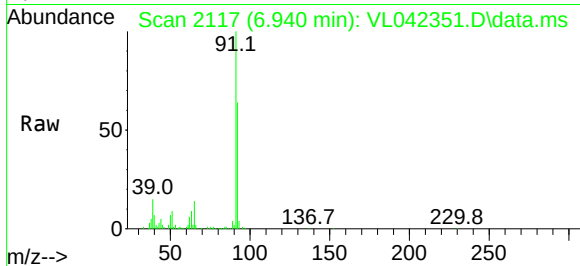
Tgt Ion:164 Resp: 14154
Ion Ratio Lower Upper
164 100
166 107.7 98.2 147.2
129 104.2 81.8 122.8
131 105.8 80.5 120.7





#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

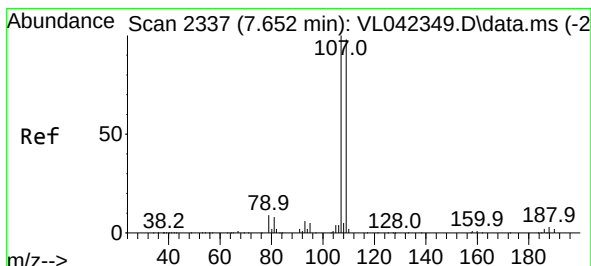
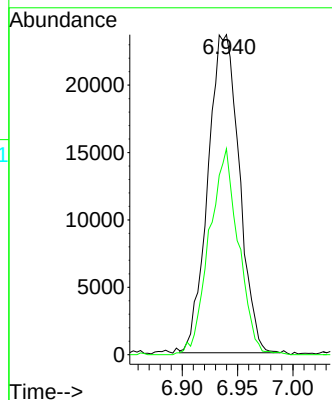
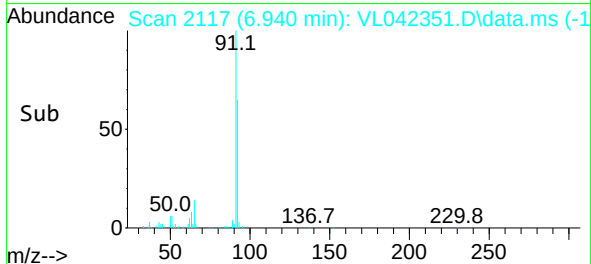
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



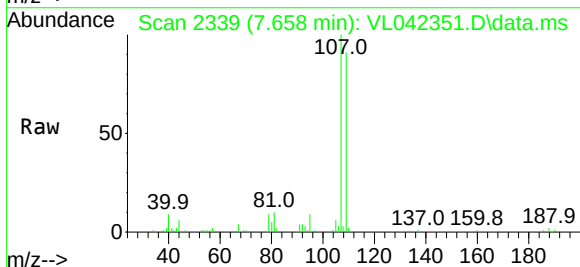
Tgt Ion: 91 Resp: 4661
Ion Ratio Lower Upper
91 100
92 60.4 48.2 72.4

Manual Integrations
APPROVED

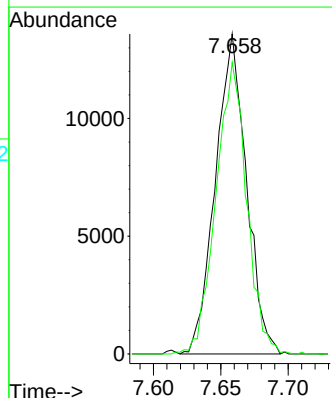
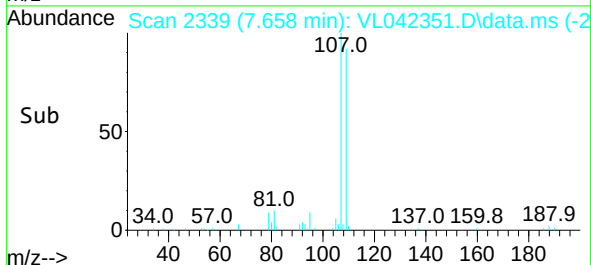
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

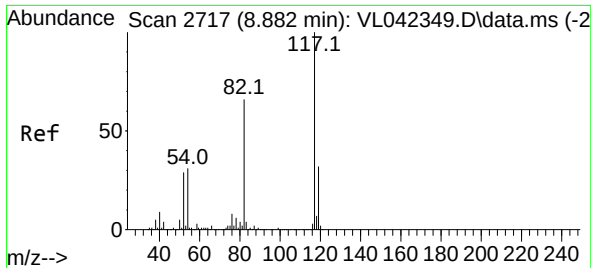


#54
1,2-Dibromoethane
Concen: 1.036 ppbv
RT: 7.658 min Scan# 2339
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48



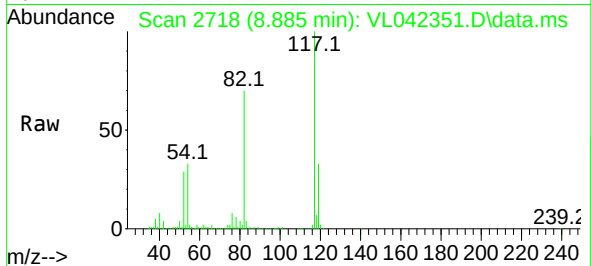
Tgt Ion:107 Resp: 21780
Ion Ratio Lower Upper
107 100
109 90.7 78.2 117.4





#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

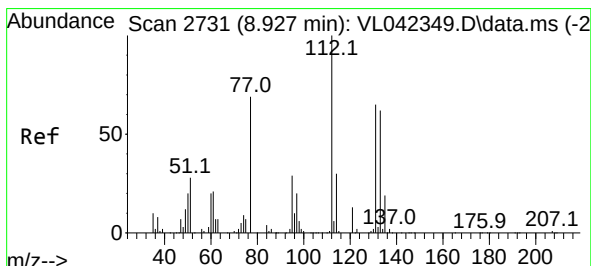
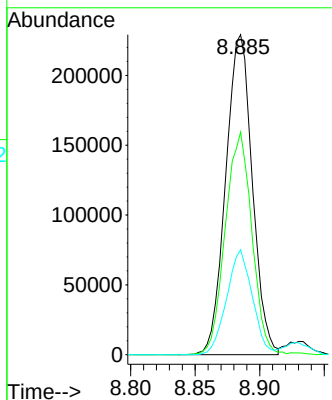
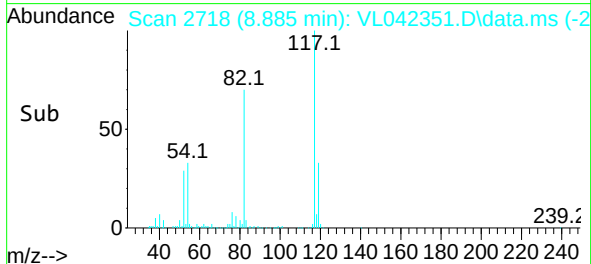
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



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

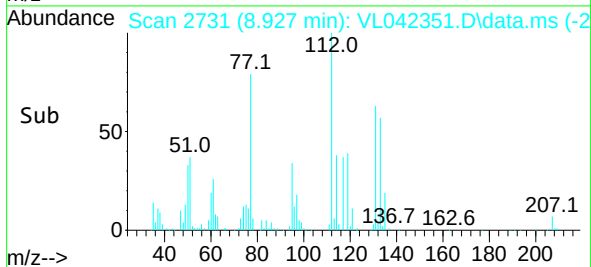
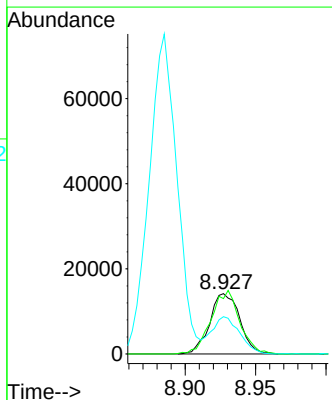
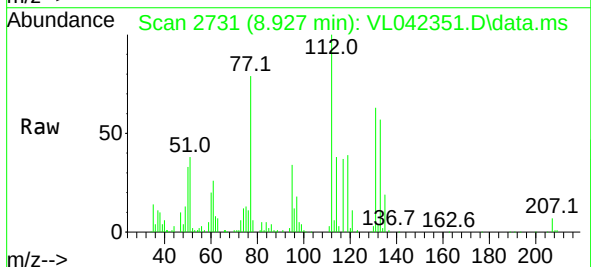
Manual Integrations
APPROVED

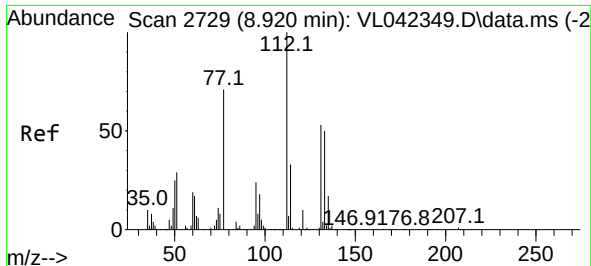
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

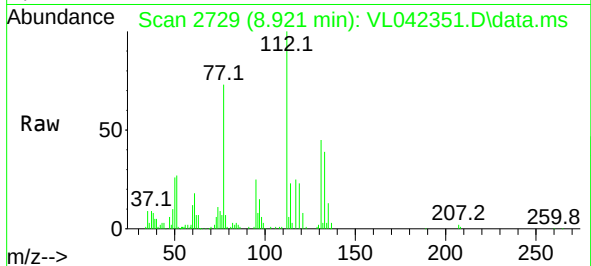
Tgt Ion:131 Resp: 21052
Ion Ratio Lower Upper
131 100
133 100.5 78.3 117.5
119 55.1 48.7 73.1





#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

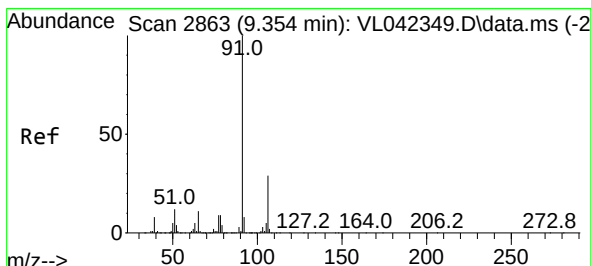
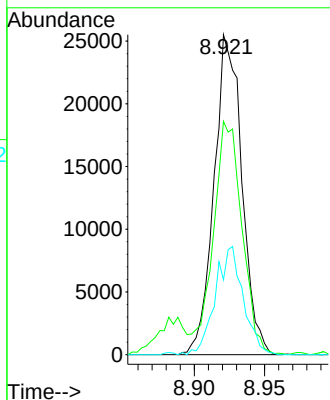
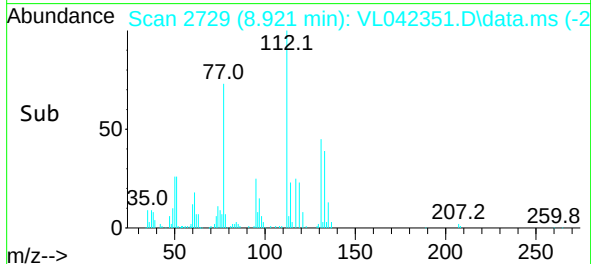
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



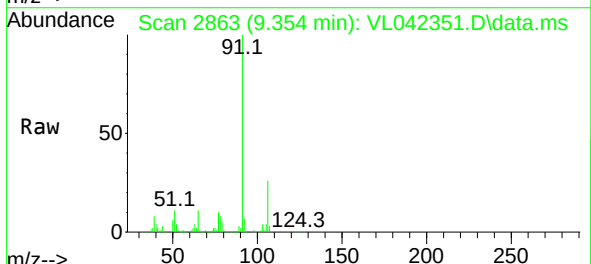
Tgt Ion:112 Resp: 3511
Ion Ratio Lower Upper
112 100
77 72.4 57.8 86.6
114 23.3 29.3 35.9

Manual Integrations
APPROVED

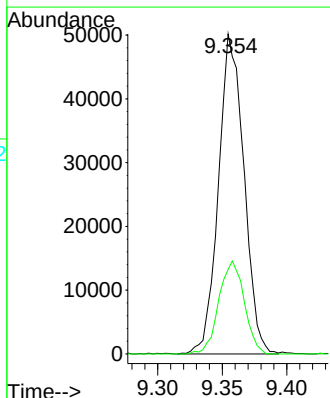
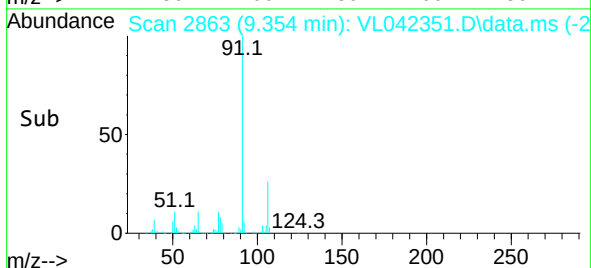
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

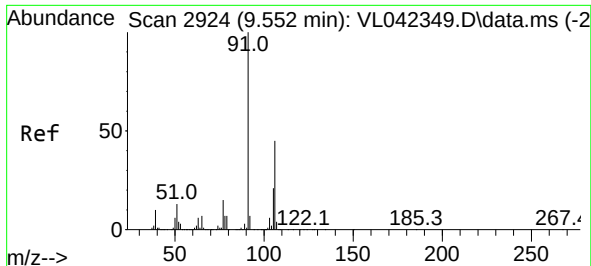


#58
Ethyl Benzene
Concen: 1.054 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48



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 :

VSTDICC001

Tgt Ion: 91 Resp: 11070

Ion Ratio Lower Upper

91 100

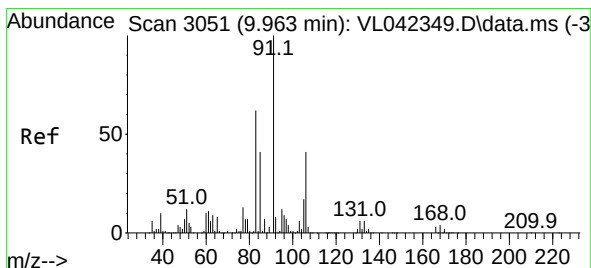
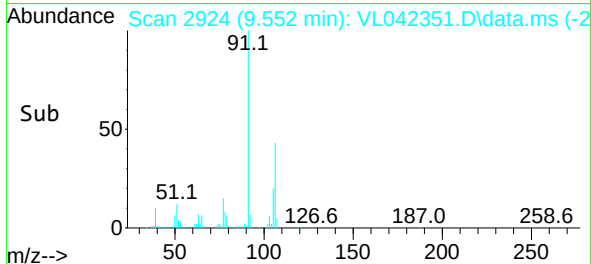
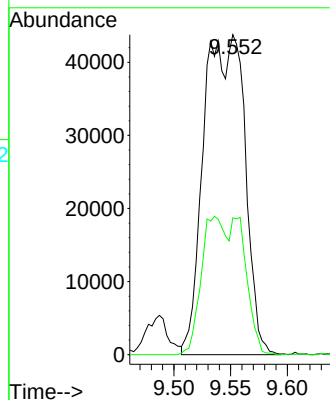
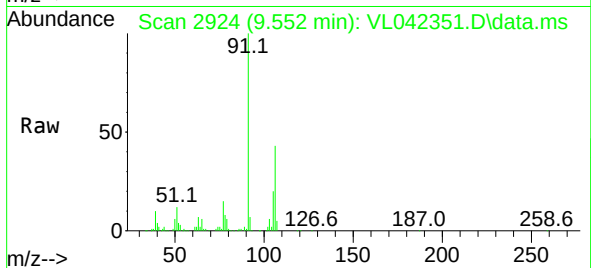
106 0.0 35.4 53.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#60

o-Xylene

Concen: 1.056 ppbv

RT: 9.966 min Scan# 3052

Delta R.T. 0.004 min

Lab File: VL042351.D

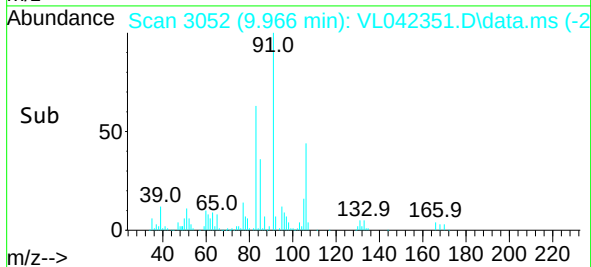
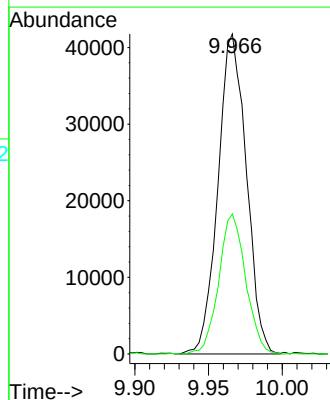
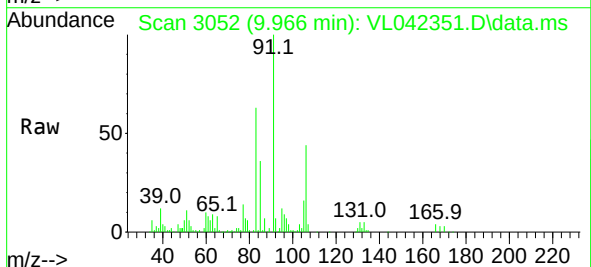
Acq: 17 Apr 2025 10:48

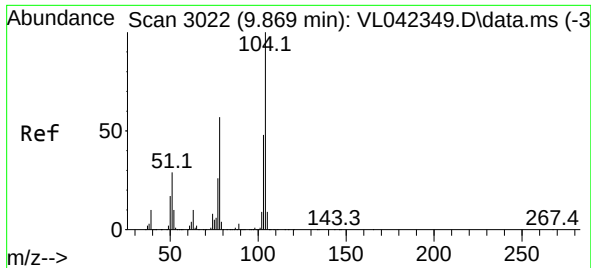
Tgt Ion: 91 Resp: 55831

Ion Ratio Lower Upper

91 100

106 41.6 21.1 63.4





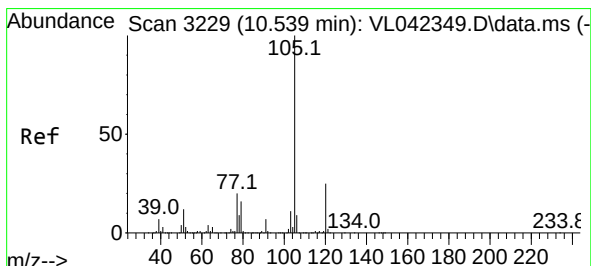
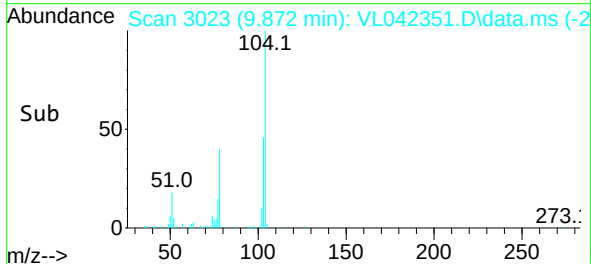
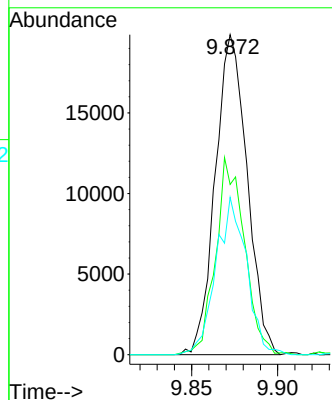
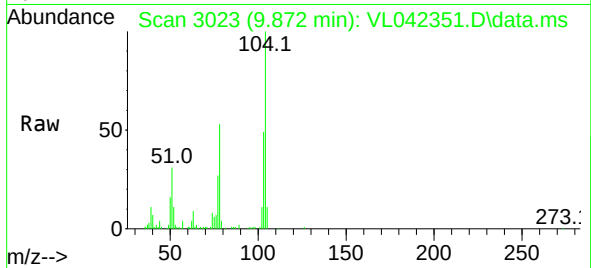
#61
Styrene
Concen: 1.012 ppbv
RT: 9.872 min Scan# 3022
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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

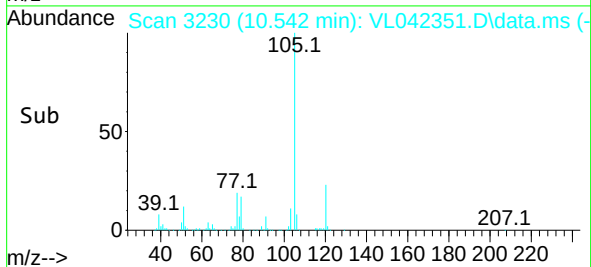
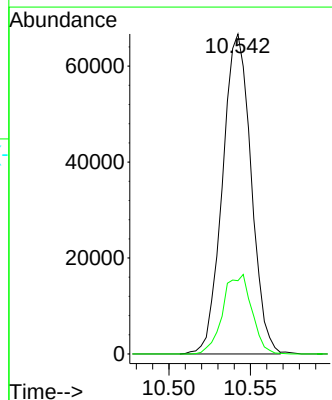
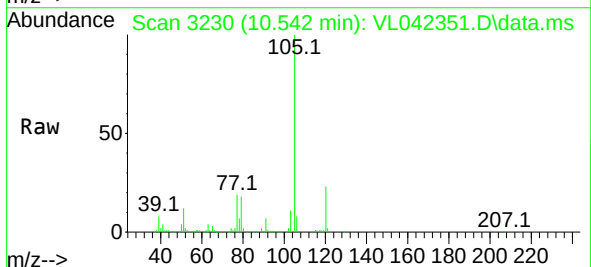
Manual Integrations
APPROVED

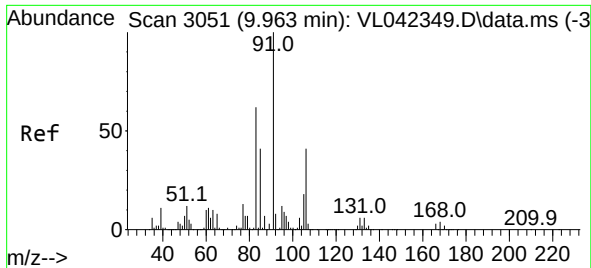
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

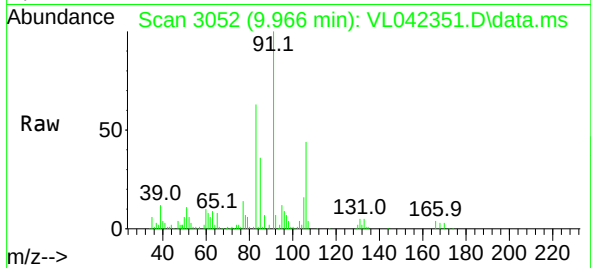
Tgt Ion:105 Resp: 81286
Ion Ratio Lower Upper
105 100
120 25.0 19.8 29.8





#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

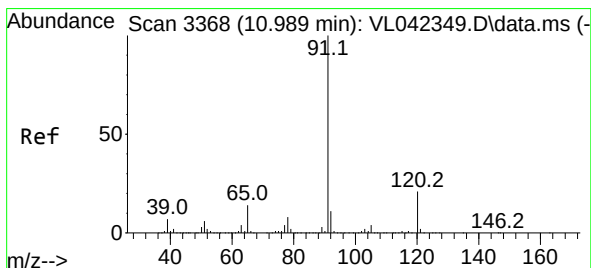
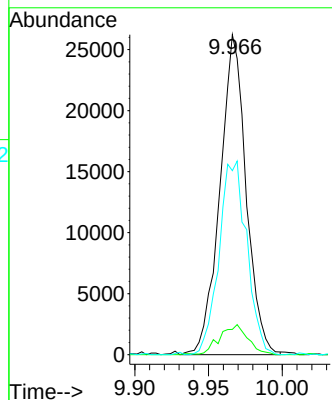
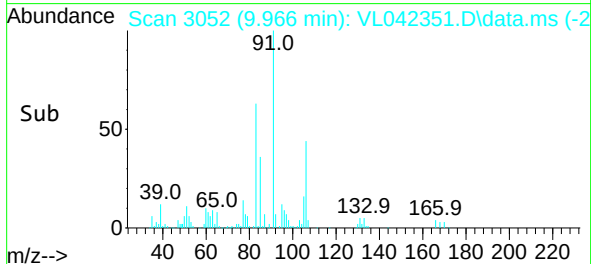
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



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

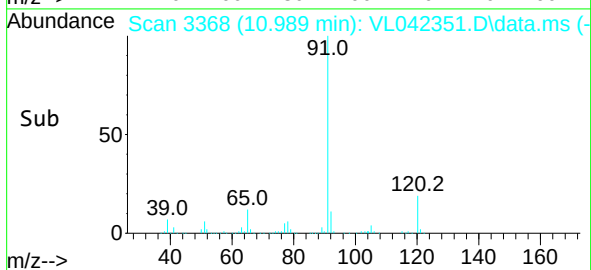
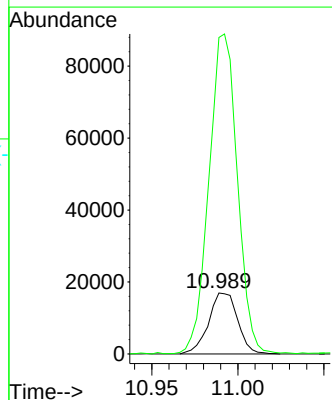
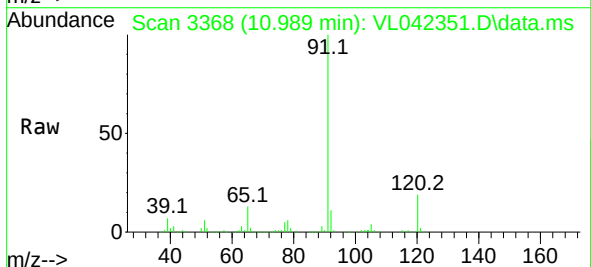
Manual Integrations
APPROVED

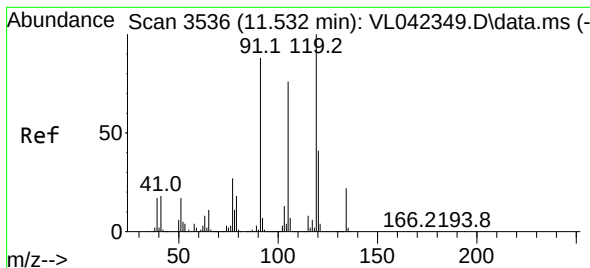
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

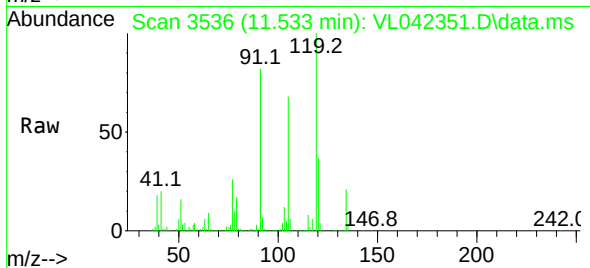
Tgt Ion:120 Resp: 19898
Ion Ratio Lower Upper
120 100
91 517.6 392.4 588.6





#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

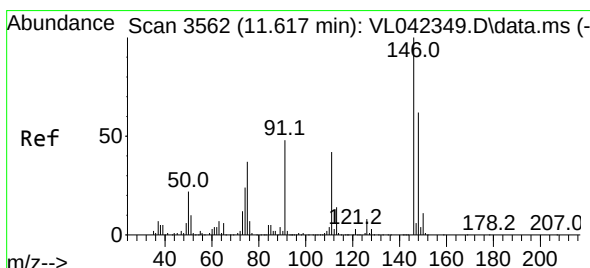
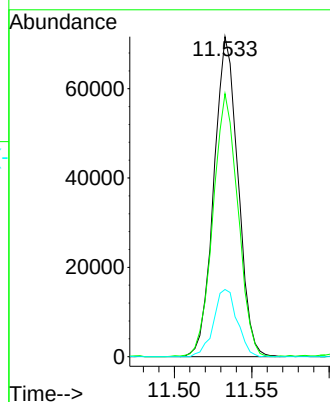
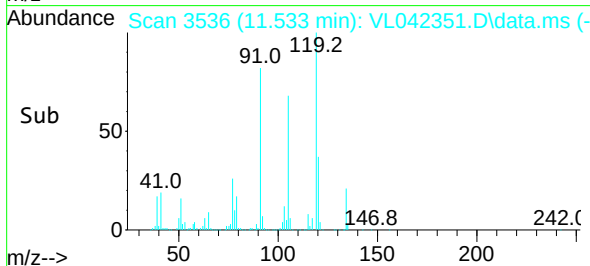
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



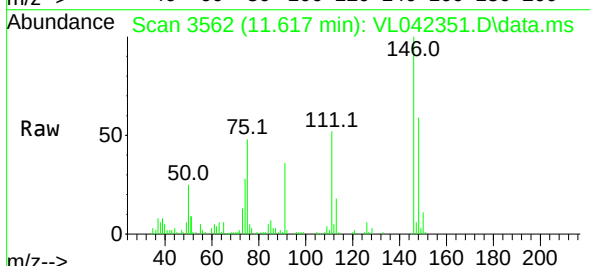
Tgt Ion: 119 Resp: 77598
Ion Ratio Lower Upper
119 100
91 85.0 74.6 111.8
134 20.5 18.8 28.2

Manual Integrations
APPROVED

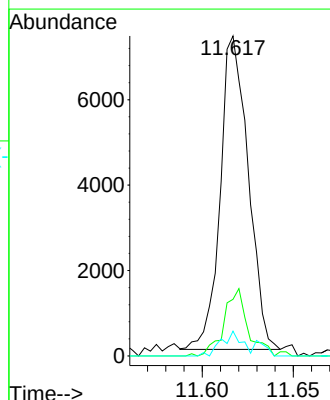
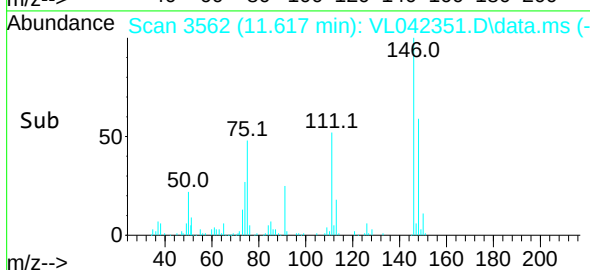
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

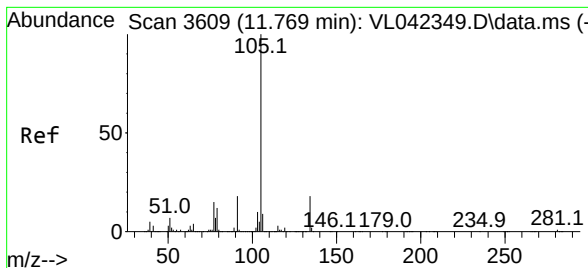


#66
Benzyl Chloride
Concen: 1.003 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48



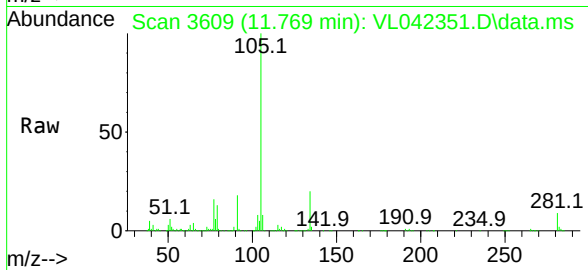
Tgt Ion: 91 Resp: 7864
Ion Ratio Lower Upper
91 100
126 18.6 11.8 17.6#
128 7.7 4.5 6.7#





#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

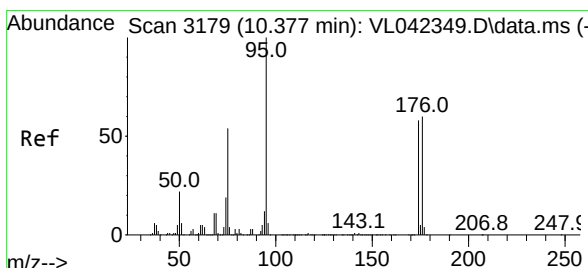
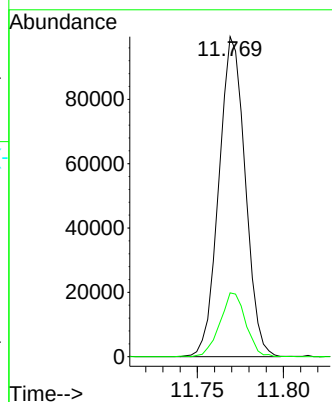
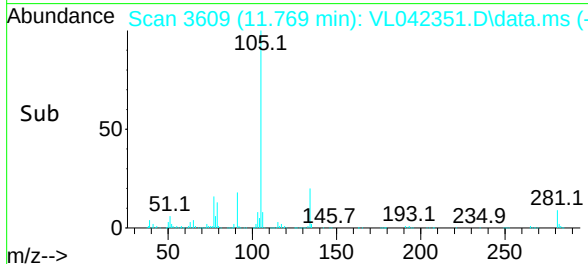
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001



Tgt Ion: 105 Resp: 105919
 Ion Ratio Lower Upper
 105 100
 134 19.6 14.6 21.8

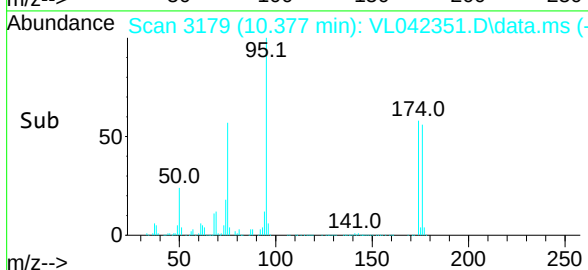
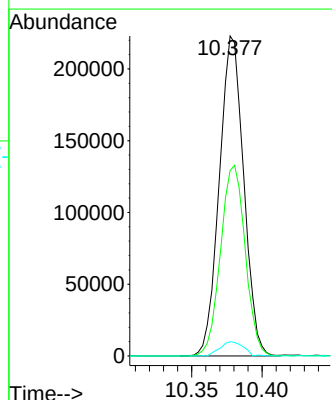
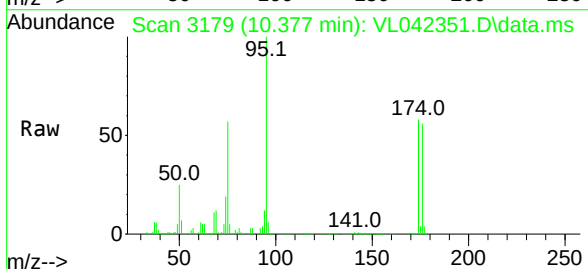
Manual Integrations APPROVED

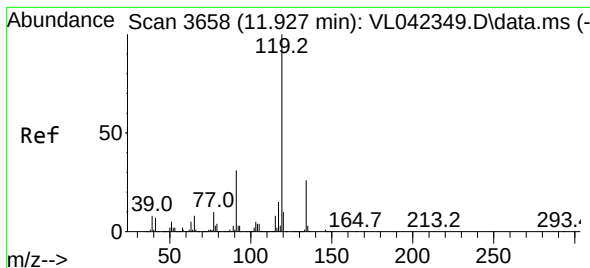
Reviewed By : Semsettin Yesilyurt 04/18/2025
 Supervised By : Mahesh Dadoda 04/18/2025



#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

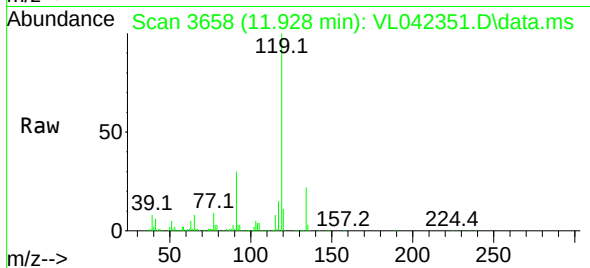
Tgt Ion: 95 Resp: 269087
 Ion Ratio Lower Upper
 95 100
 174 60.4 48.5 72.7
 175 4.3 3.7 5.5





#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

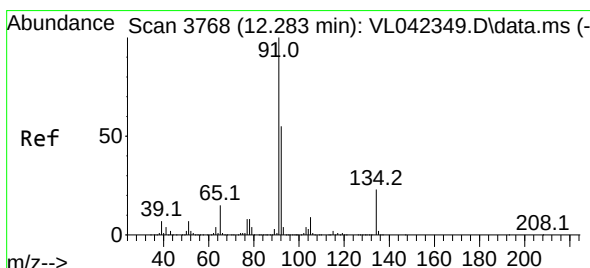
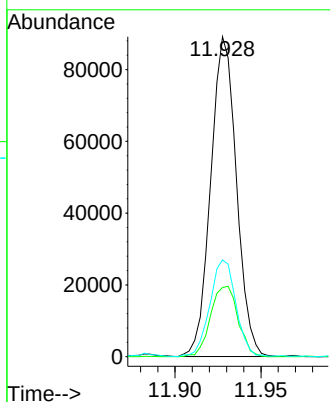
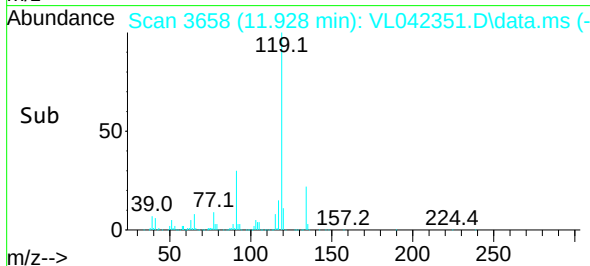
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001



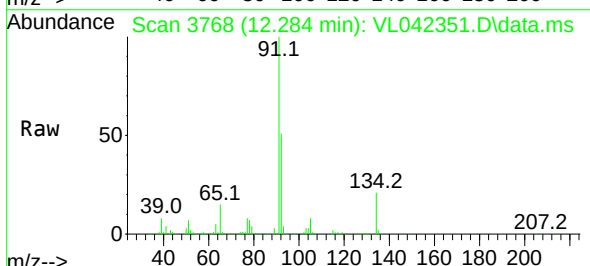
Tgt Ion: 119 Resp: 92733
 Ion Ratio Lower Upper
 119 100
 134 23.5 20.0 30.0
 91 32.1 24.4 36.6

Manual Integrations
 APPROVED

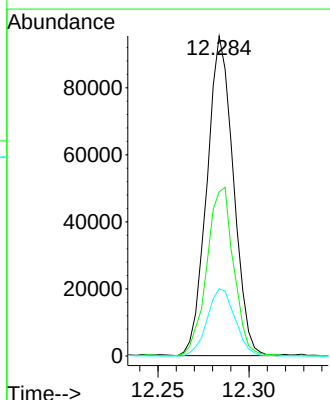
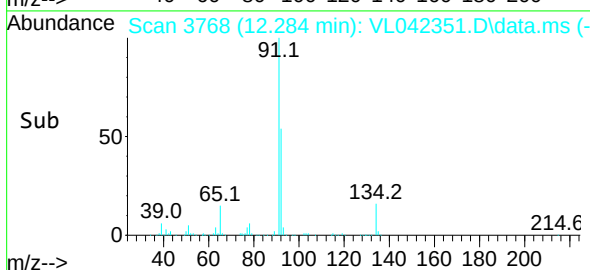
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

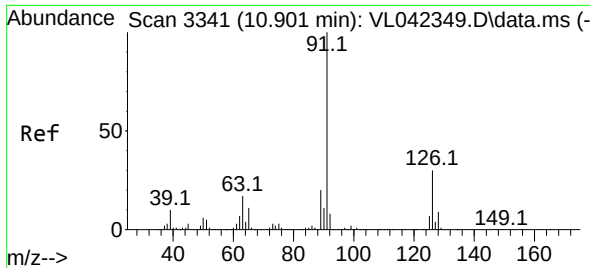


#70
 n-Butylbenzene
 Concen: 1.072 ppbv
 RT: 12.284 min Scan# 3768
 Delta R.T. 0.000 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48



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





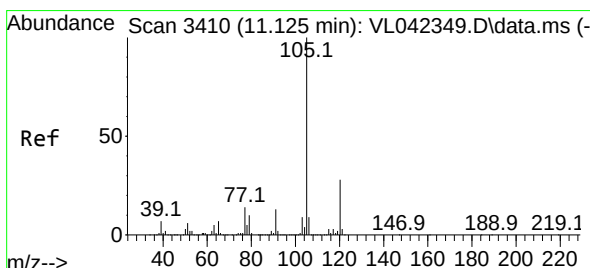
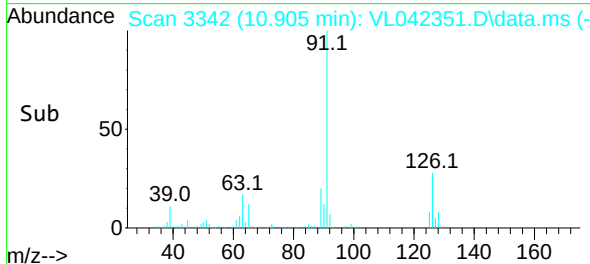
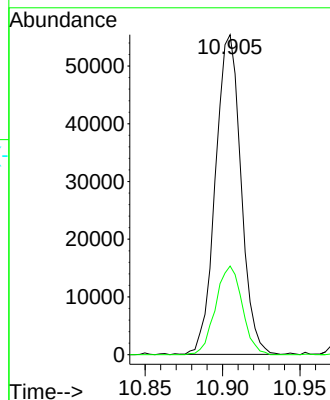
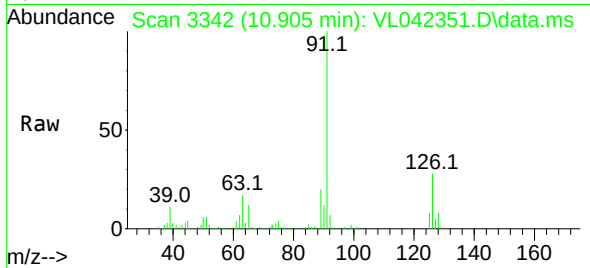
#71
2-Chlorotoluene
Concen: 1.040 ppbv
RT: 10.905 min Scan# 31
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion: 91 Resp: 6332
Ion Ratio Lower Upper
91 100
126 28.9 11.4 45.4

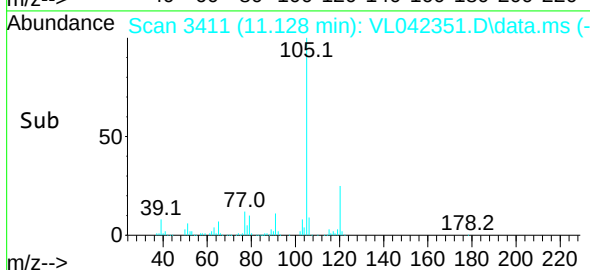
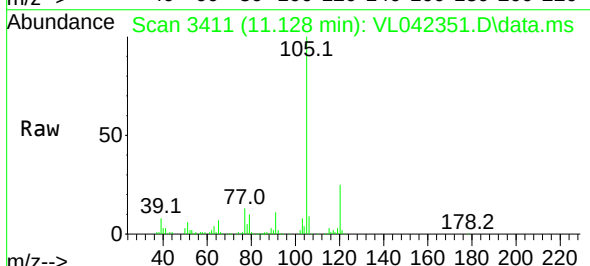
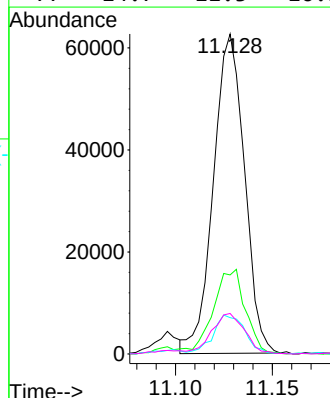
Manual Integrations
APPROVED

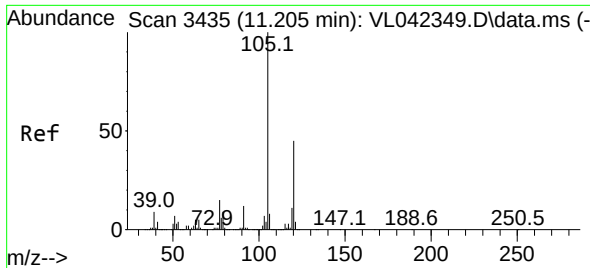
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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





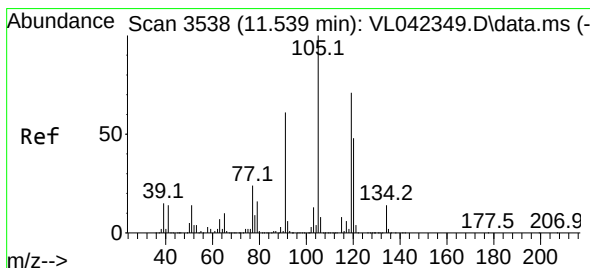
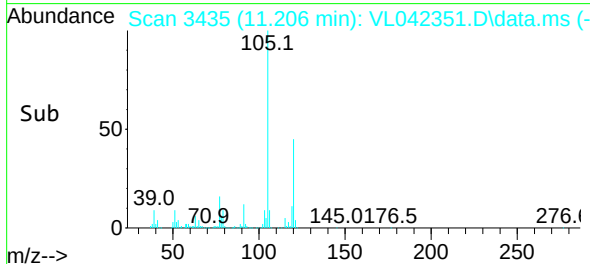
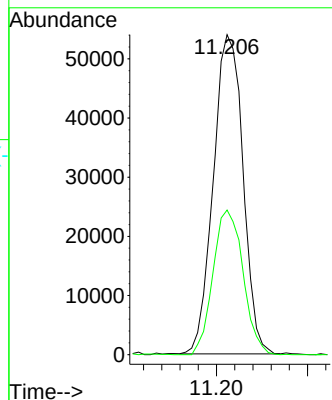
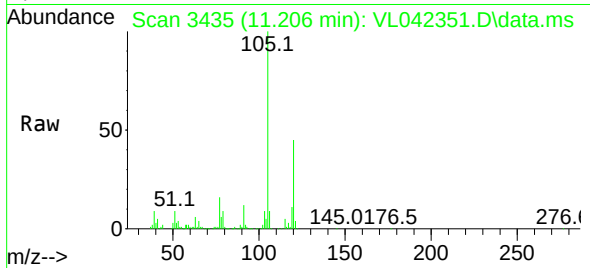
#73
1,3,5-Trimethylbenzene
Concen: 1.067 ppbv
RT: 11.206 min Scan# 3435
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

Tgt Ion:105 Resp: 6092
Ion Ratio Lower Upper
105 100
120 45.3 35.6 53.4

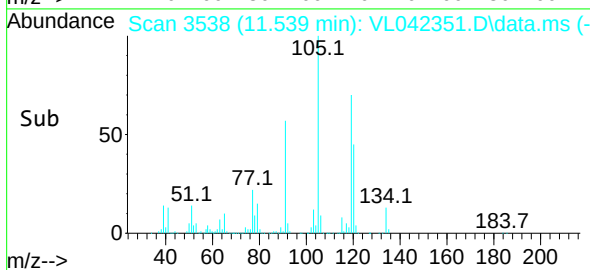
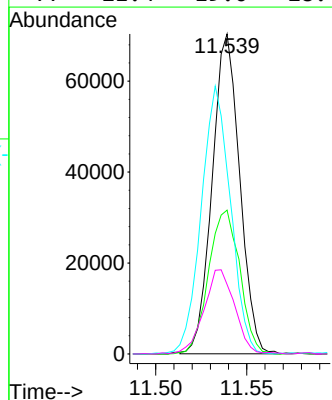
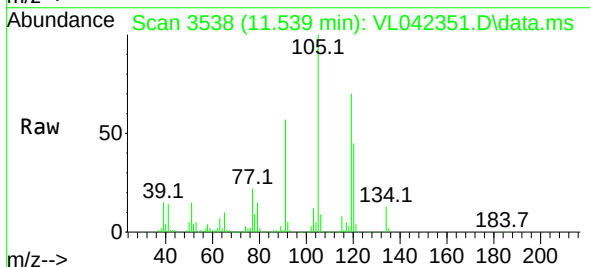
Manual Integrations
APPROVED

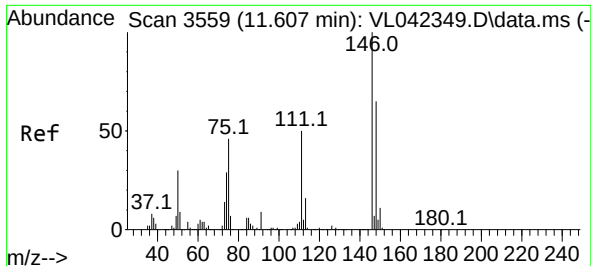
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

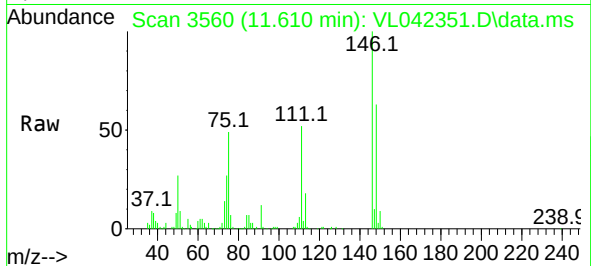
Tgt Ion:105 Resp: 73888
Ion Ratio Lower Upper
105 100
120 45.0 38.1 57.1
91 57.0 48.8 73.2
77 21.4 19.0 28.4





#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

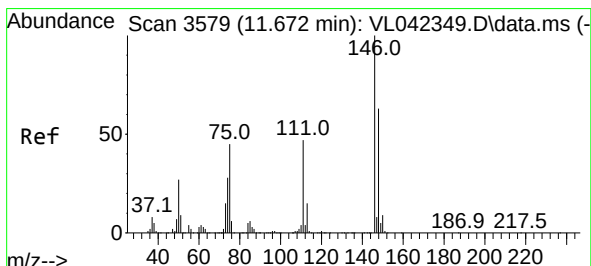
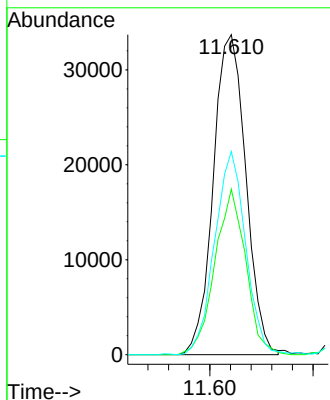
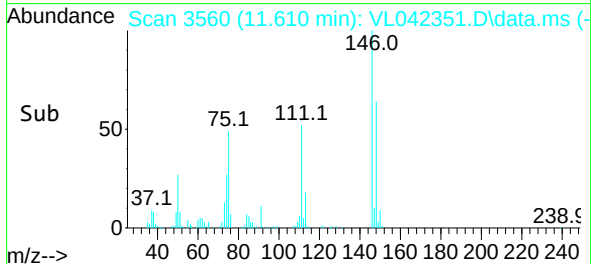
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001



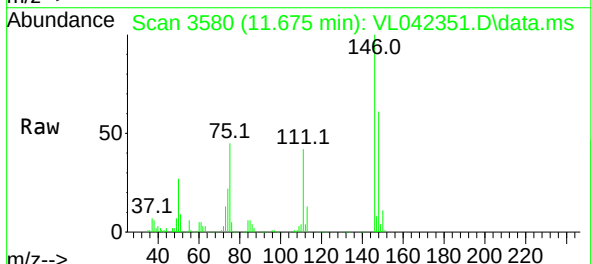
Tgt Ion:146 Resp: 3687
Ion Ratio Lower Upper
146 100
111 48.9 24.3 72.8
148 60.8 31.6 94.8

Manual Integrations
APPROVED

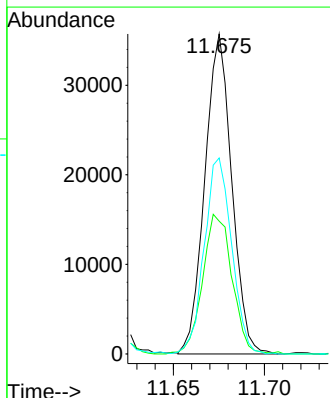
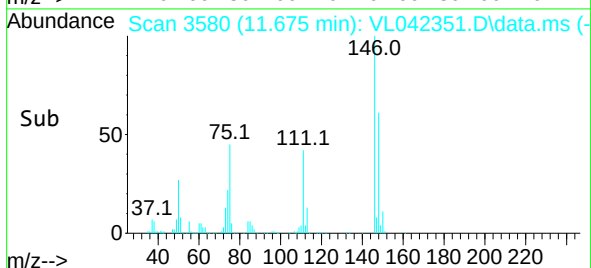
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

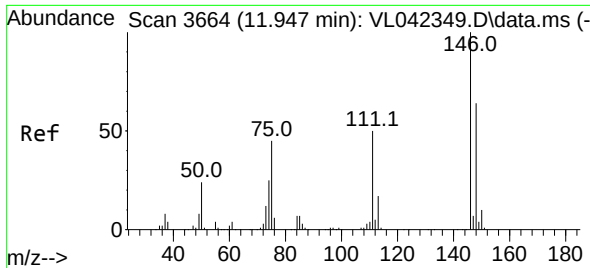


#76
1,4-Dichlorobenzene
Concen: 1.053 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48



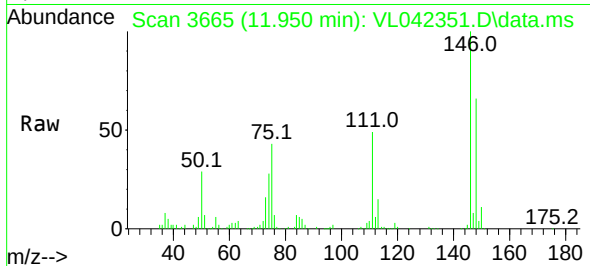
Tgt Ion:146 Resp: 36692
Ion Ratio Lower Upper
146 100
111 47.7 24.2 72.6
148 62.3 32.1 96.5





#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

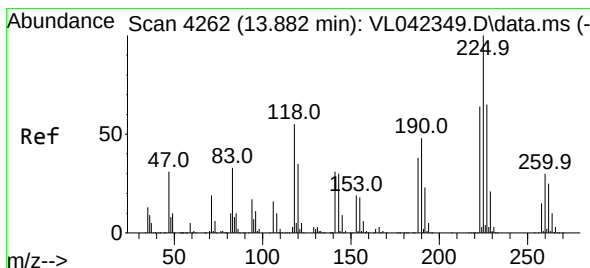
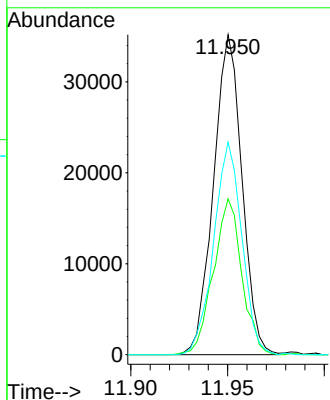
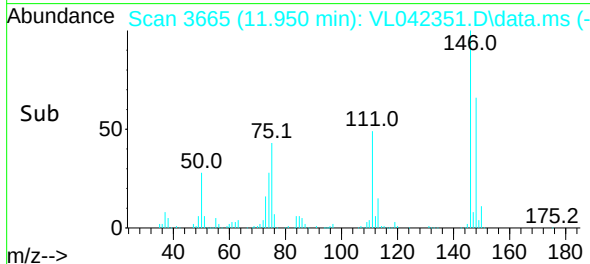
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001



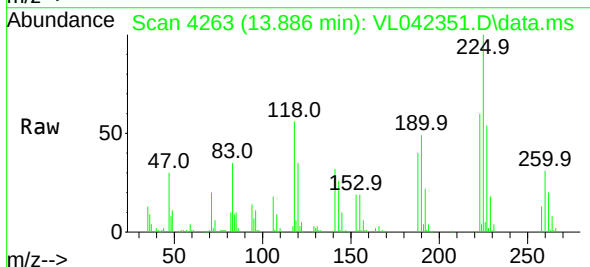
Tgt Ion:146 Resp: 3597
Ion Ratio Lower Upper
146 100
111 48.7 25.3 75.9
148 65.9 31.5 94.5

Manual Integrations
APPROVED

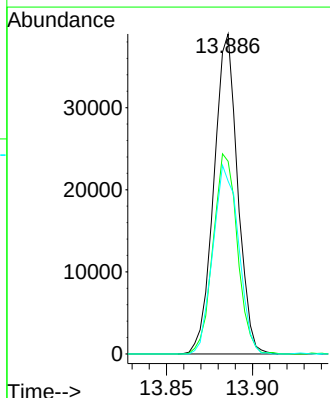
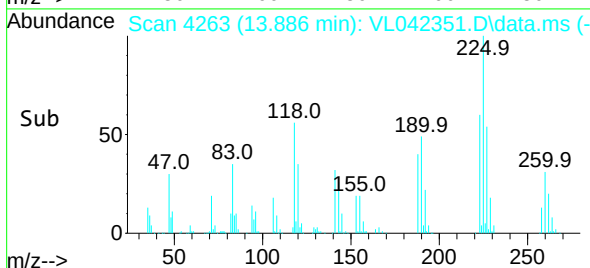
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

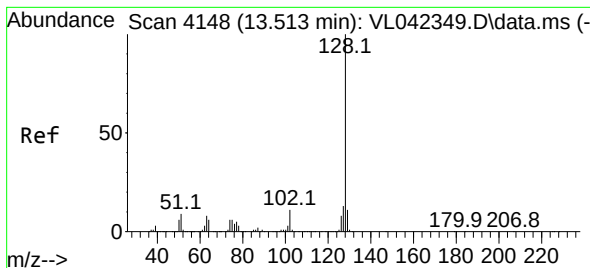


#78
Hexachloro-1,3-Butadiene
Concen: 1.098 ppbv
RT: 13.886 min Scan# 4263
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48



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 :

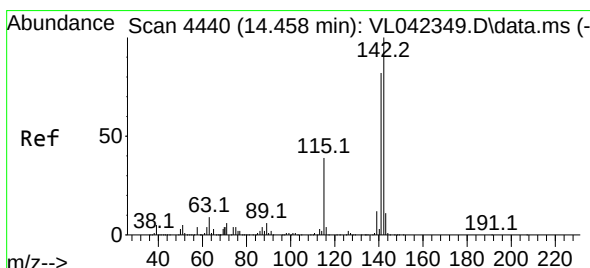
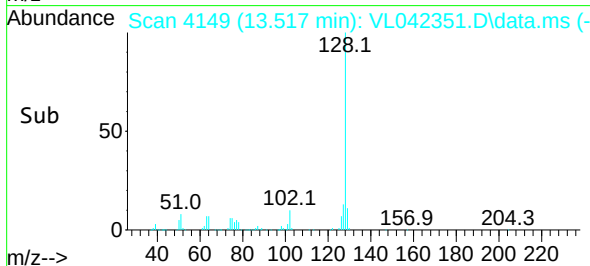
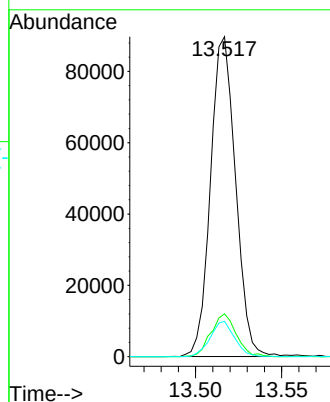
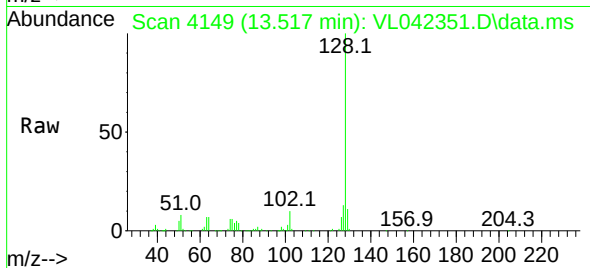
VSTDIC001

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

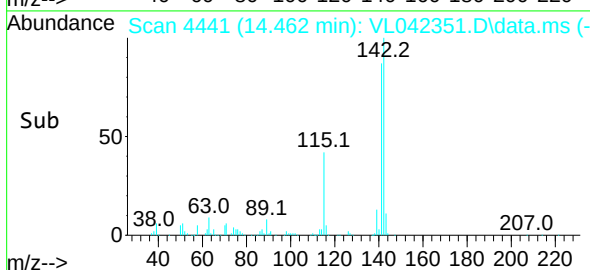
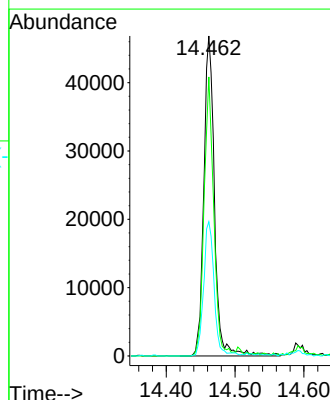
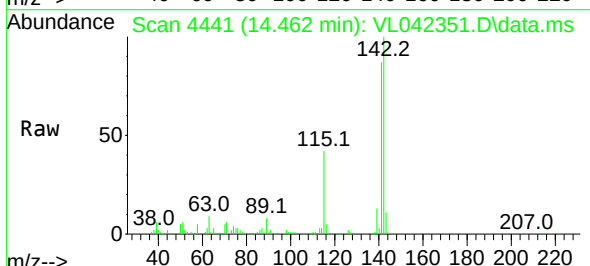
RT: 14.462 min Scan# 4441

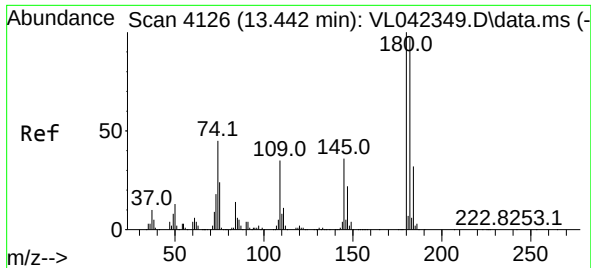
Delta R.T. 0.004 min

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





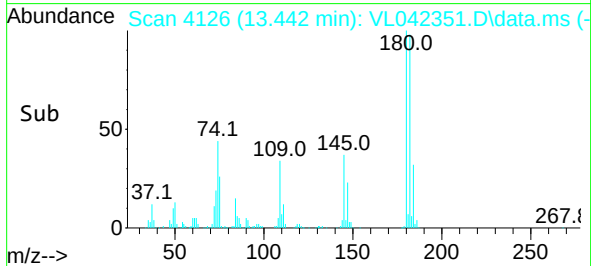
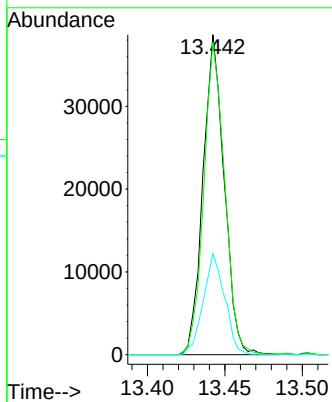
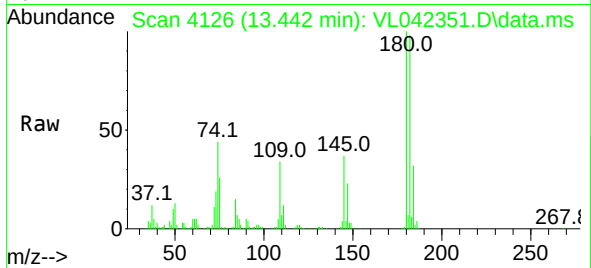
#81
 1,2,4-Trichlorobenzene
 Concen: 1.074 ppbv
 RT: 13.442 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48

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

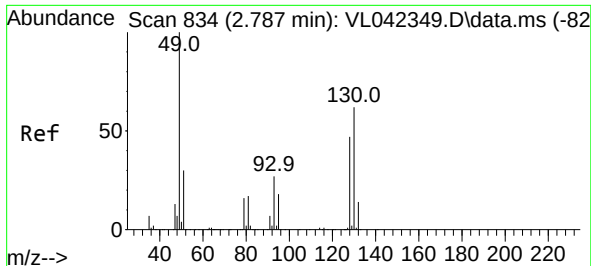
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Fri Apr 18 01:24:29 2025

Response via : Initial Calibration

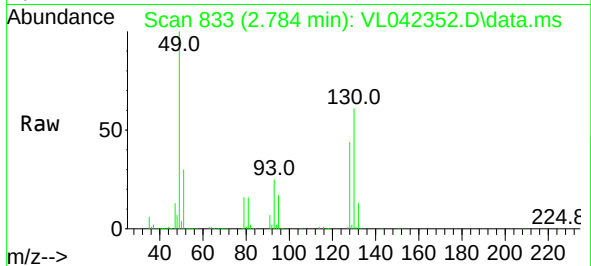
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.596	75	10827m	0.505	ppbv	
47) 1,1,2-Trichloroethane	6.577	97	7466m	0.516	ppbv	
48) Dibromochloromethane	7.386	129	13122	0.514	ppbv	97
49) Bromoform	9.477	173	10988	0.492	ppbv	99
50) 4-Methyl-2-Pentanone	5.761	43	27206m	0.585	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



#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

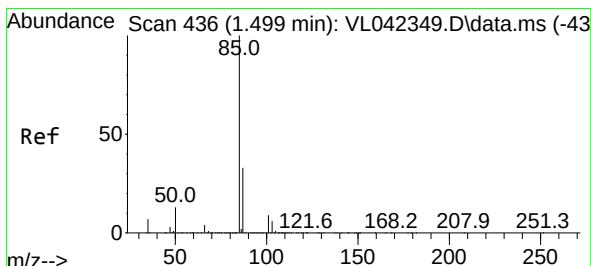
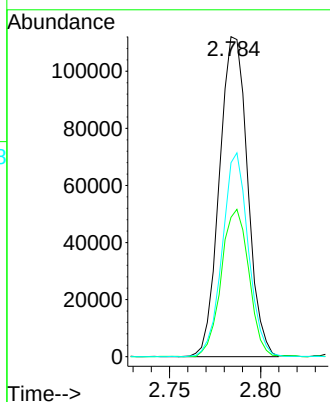
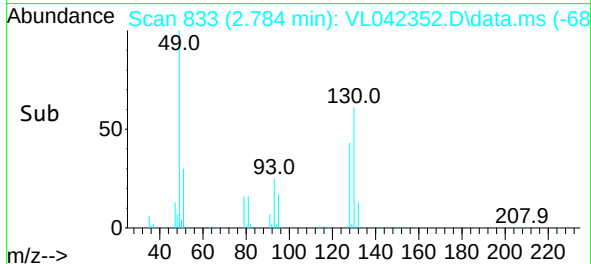
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



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

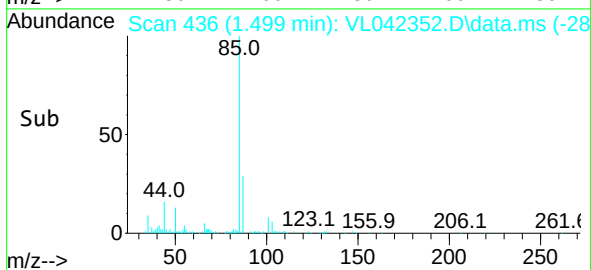
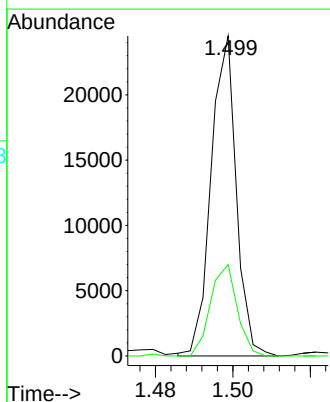
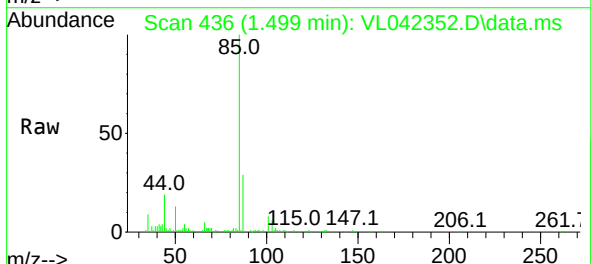
Manual Integrations
APPROVED

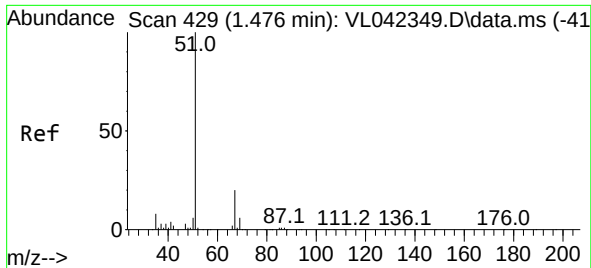
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

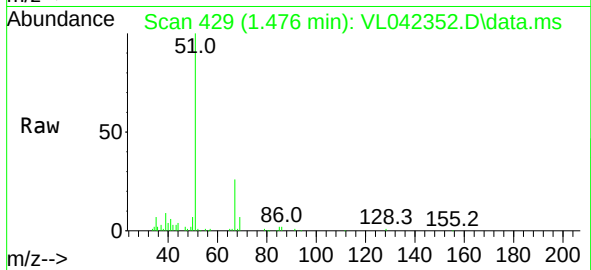
Tgt Ion: 85 Resp: 11036
Ion Ratio Lower Upper
85 100
87 28.6 26.6 39.8





#3
Chlorodifluoromethane
Concen: 0.557 ppbv
RT: 1.476 min Scan# 429
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

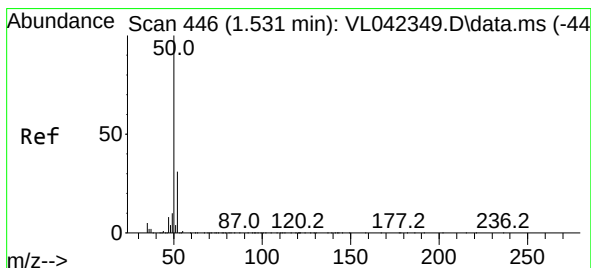
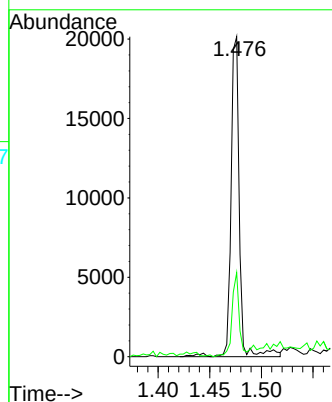
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



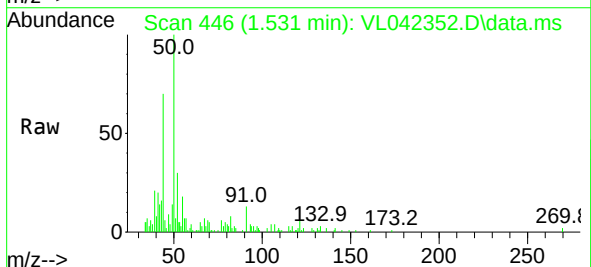
Tgt Ion: 51 Resp: 11304
Ion Ratio Lower Upper
51 100
67 27.8 16.2 24.4

Manual Integrations
APPROVED

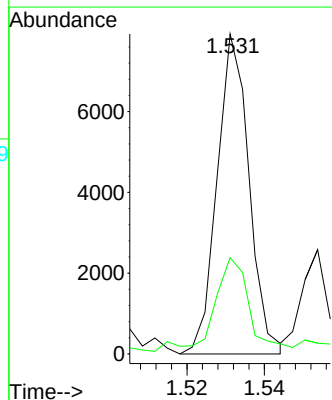
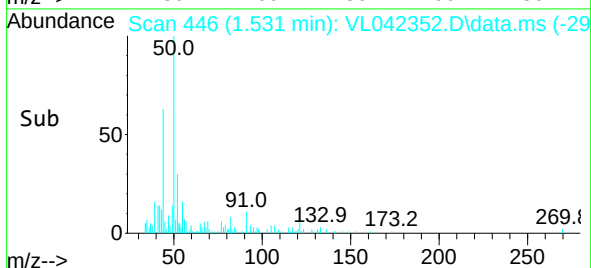
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

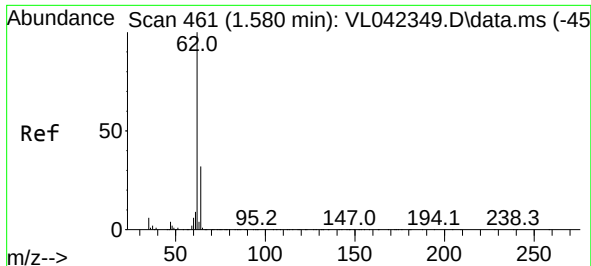


#4
Chloromethane
Concen: 0.538 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19



Tgt Ion: 50 Resp: 4534
Ion Ratio Lower Upper
50 100
52 32.8 24.7 37.1





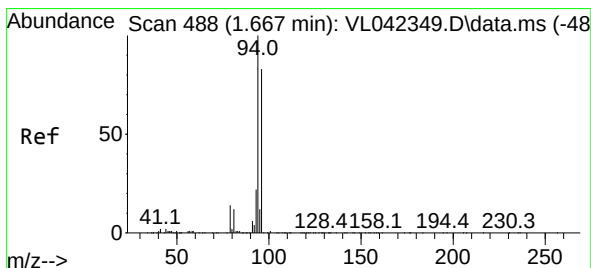
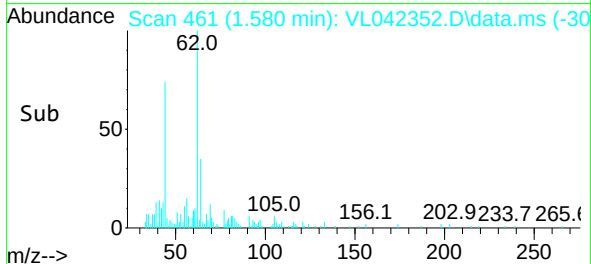
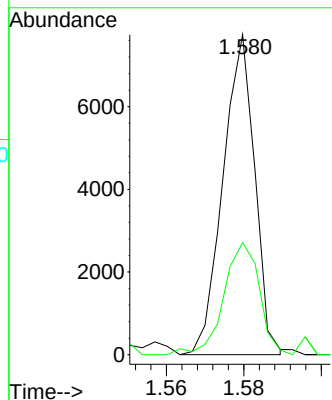
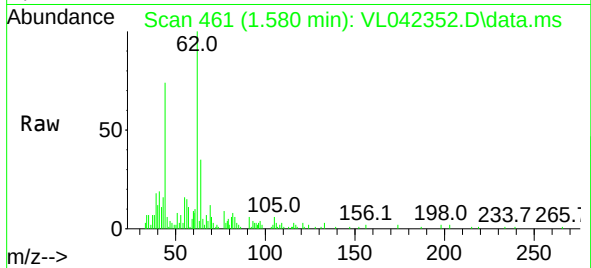
#5
 Vinyl Chloride
 Concen: 0.480 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. -0.000 min
 Lab File: VL042352.D
 Acq: 17 Apr 2025 11:19

Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5

Tgt Ion: 62 Resp: 4400
 Ion Ratio Lower Upper
 62 100
 64 33.5 25.4 38.0

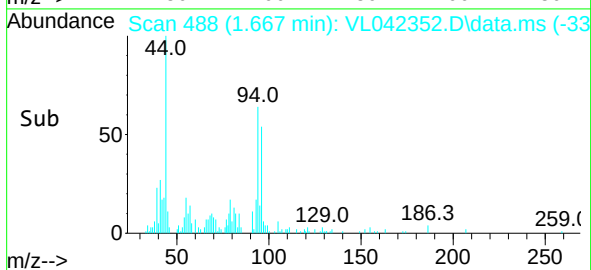
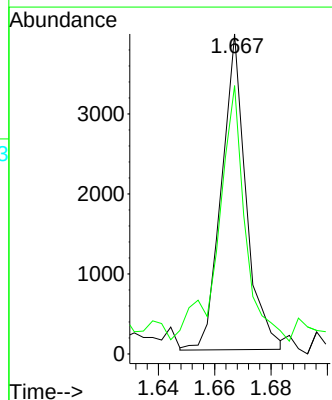
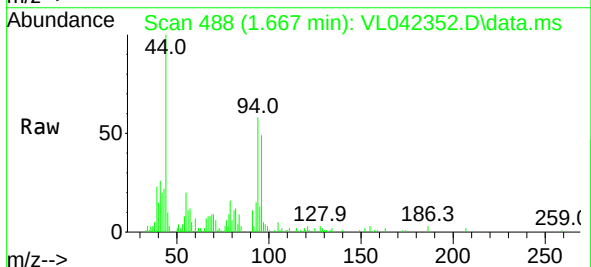
Manual Integrations
 APPROVED

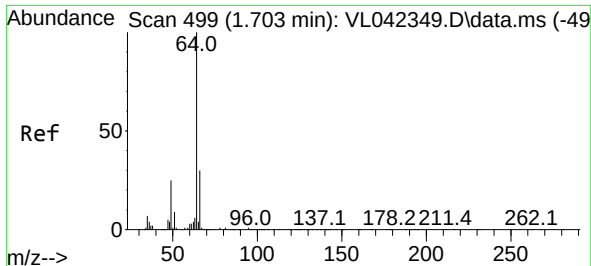
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#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

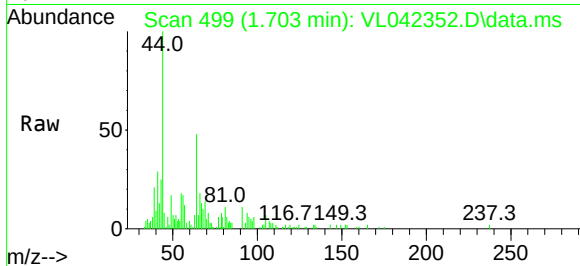
Tgt Ion: 94 Resp: 2394
 Ion Ratio Lower Upper
 94 100
 96 78.1 66.2 99.2





#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

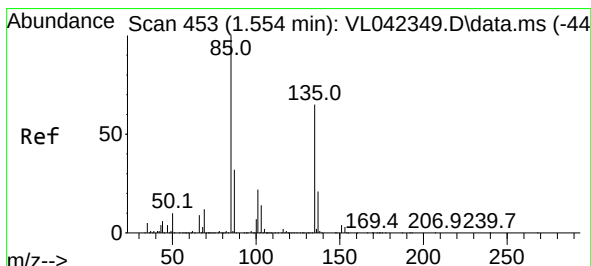
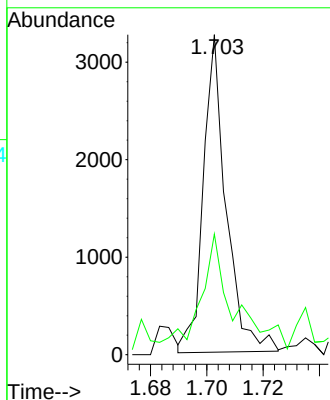
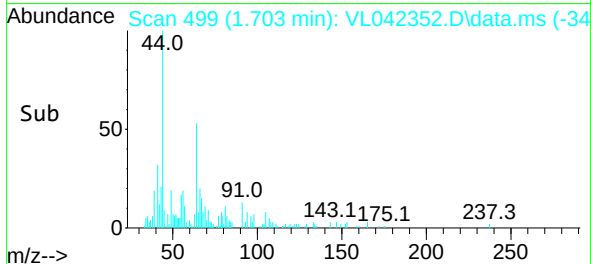
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



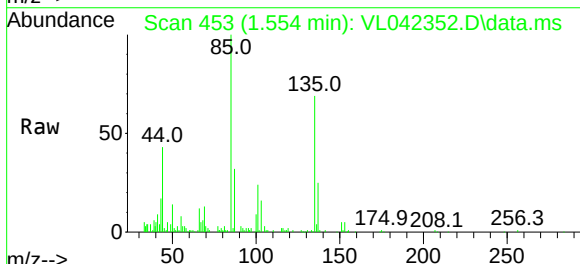
Tgt Ion: 64 Resp: 1824
Ion Ratio Lower Upper
64 100
66 37.7 24.6 37.0

Manual Integrations
APPROVED

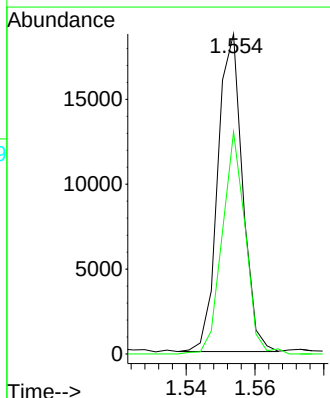
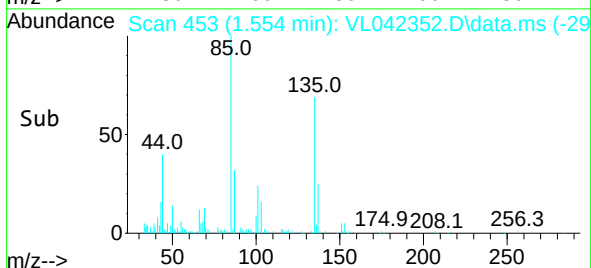
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

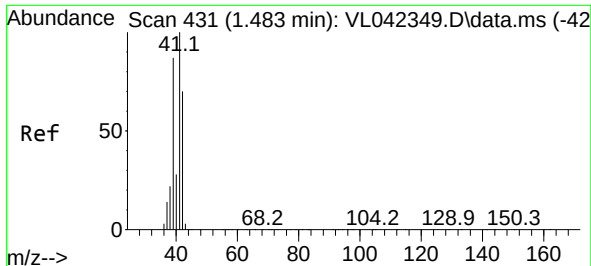


#8
Dichlorotetrafluoroethane
Concen: 0.513 ppbv
RT: 1.554 min Scan# 453
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19



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

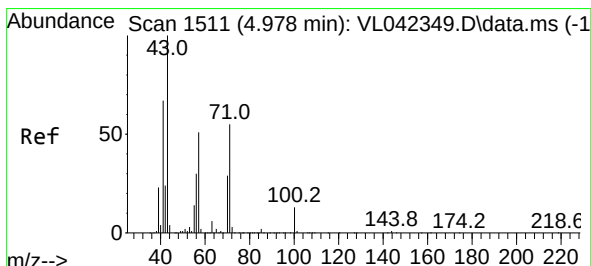
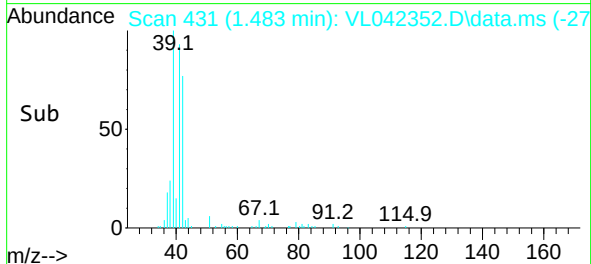
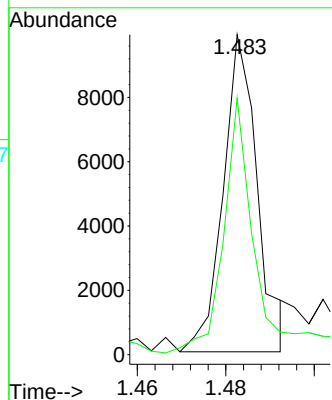
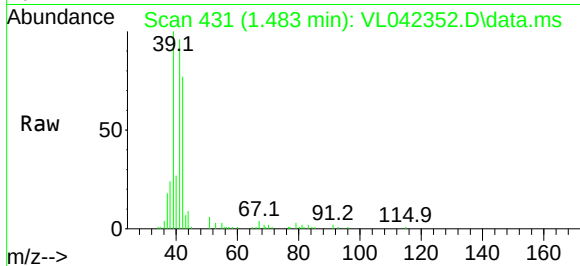
42 64.8 56.2 84.4

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

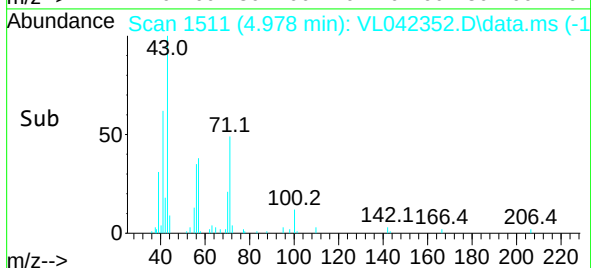
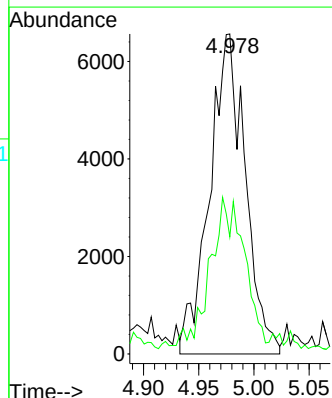
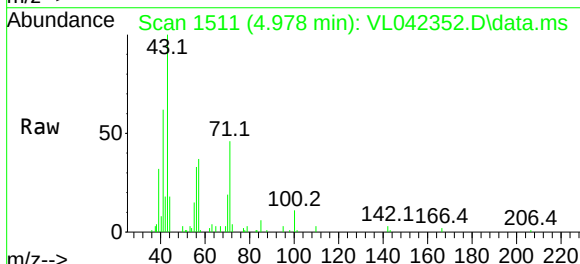
Acq: 17 Apr 2025 11:19

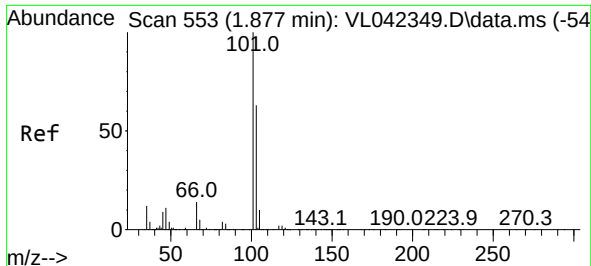
Tgt Ion: 43 Resp: 14728

Ion Ratio Lower Upper

43 100

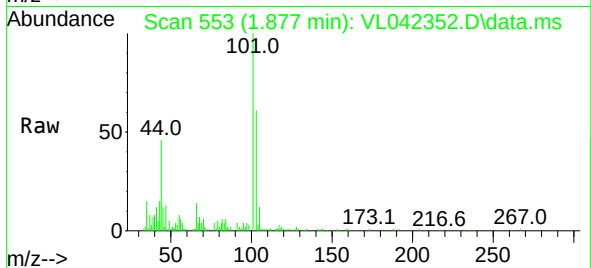
57 51.1 39.9 59.9





#11
Trichlorofluoromethane
Concen: 0.501 ppbv
RT: 1.877 min Scan# 511
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

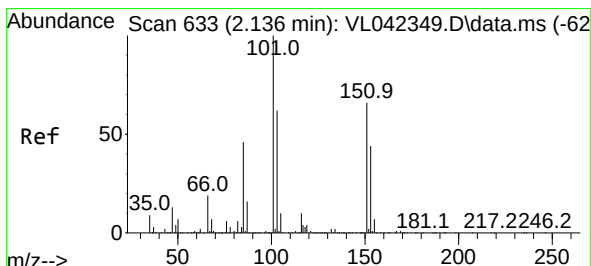
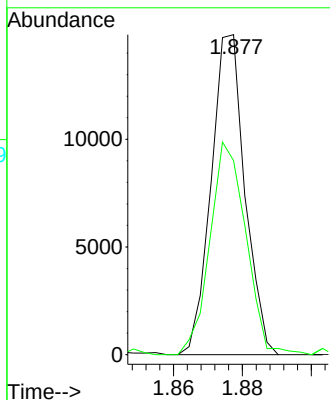
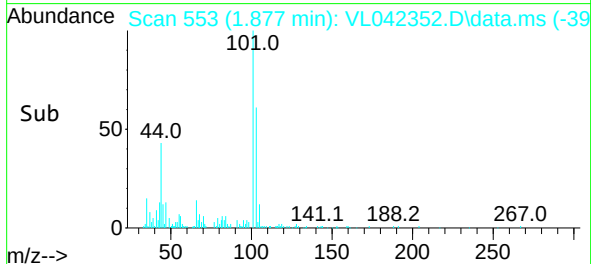
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



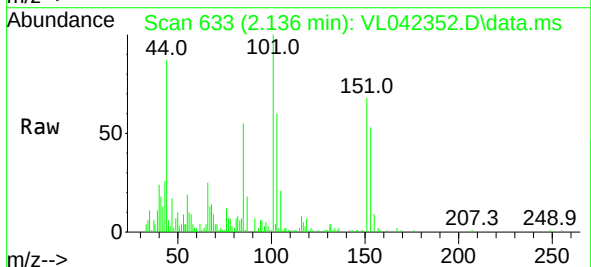
Tgt Ion:101 Resp: 10150
Ion Ratio Lower Upper
101 100
103 60.6 50.1 75.1

Manual Integrations
APPROVED

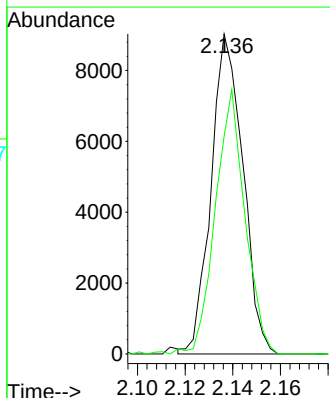
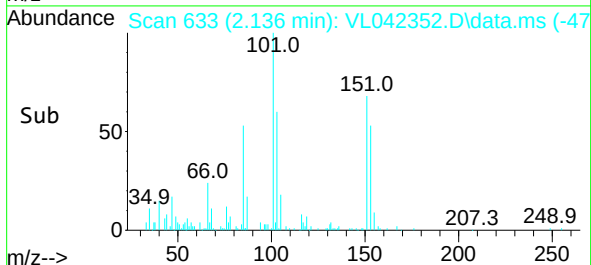
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

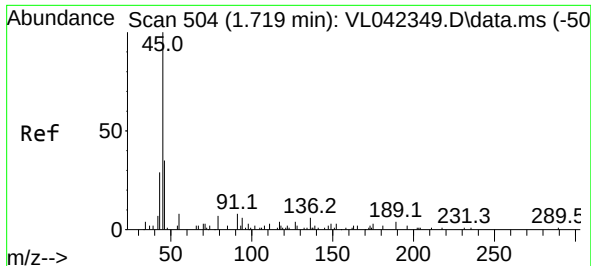


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.506 ppbv
RT: 2.136 min Scan# 633
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19



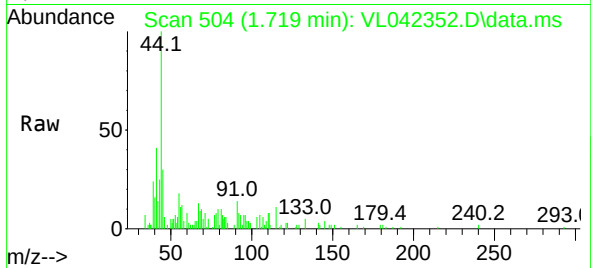
Tgt Ion:101 Resp: 8371
Ion Ratio Lower Upper
101 100
151 77.4 57.0 85.6





#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

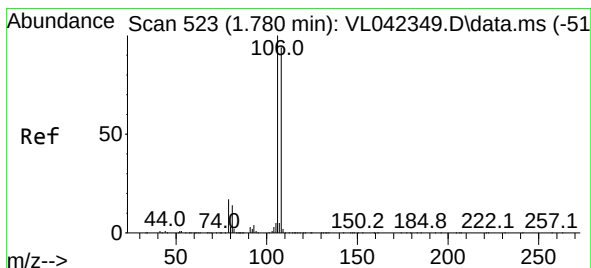
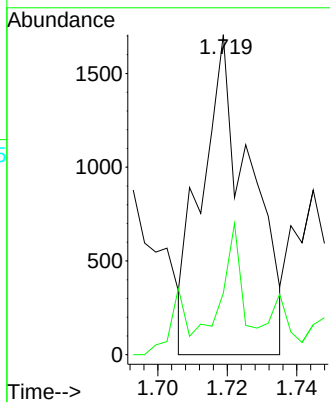
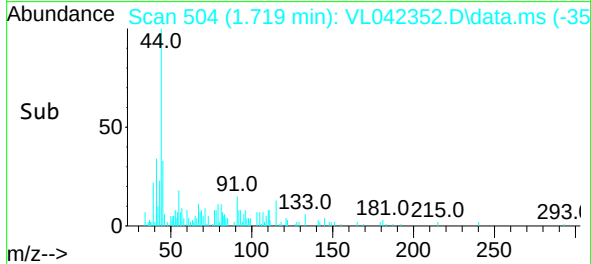
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



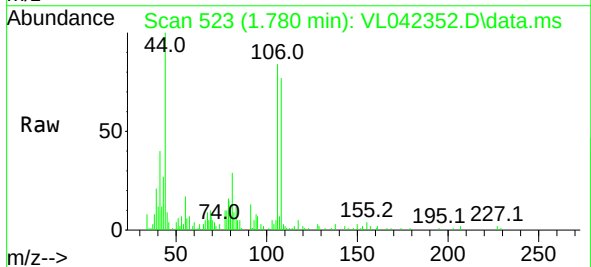
Tgt Ion: 45 Resp: 1650
Ion Ratio Lower Upper
45 100
46 0.0 21.9 87.7

Manual Integrations
APPROVED

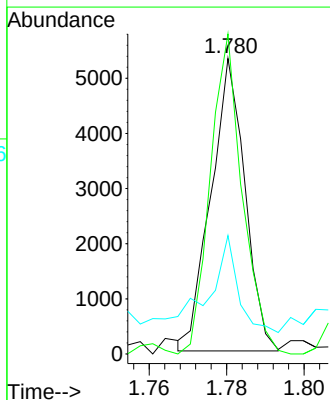
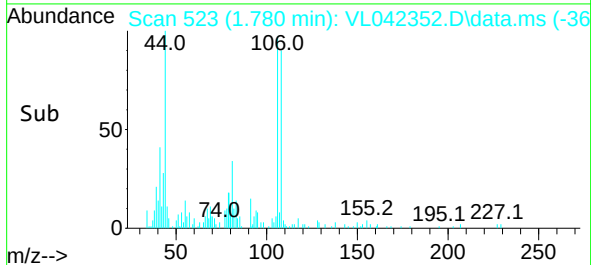
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

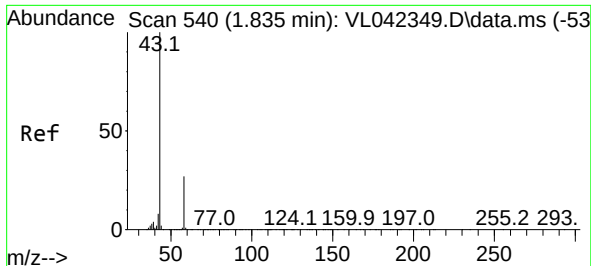


#14
Bromoethene
Concen: 0.519 ppbv
RT: 1.780 min Scan# 523
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19



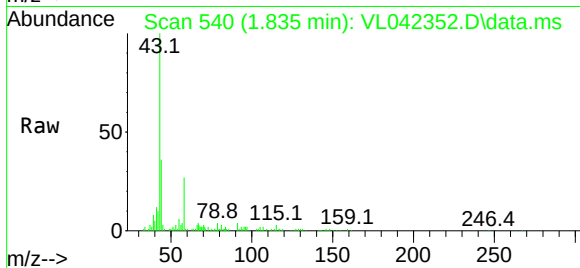
Tgt Ion:108 Resp: 3238
Ion Ratio Lower Upper
108 100
106 110.3 85.9 128.9
79 33.0 13.9 20.9





#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

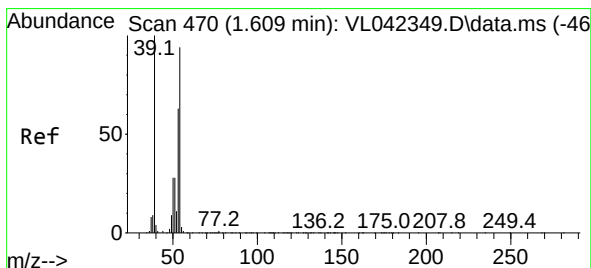
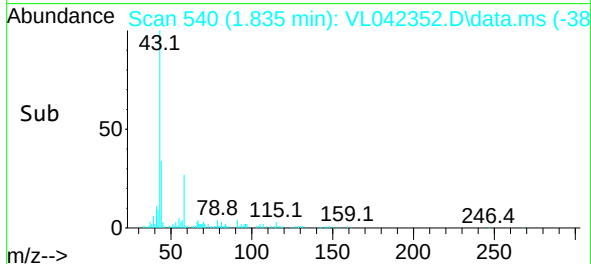
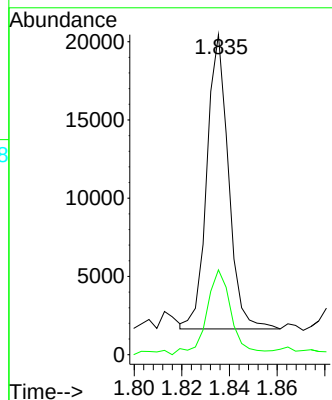
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



Tgt Ion: 43 Resp: 11859
Ion Ratio Lower Upper
43 100
58 41.7 22.4 33.6

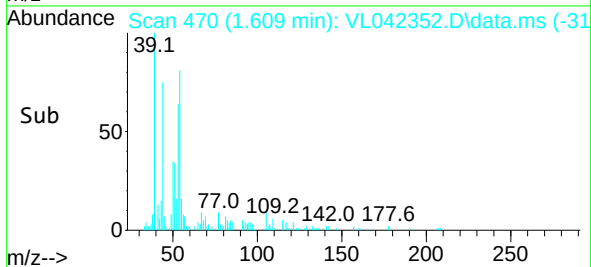
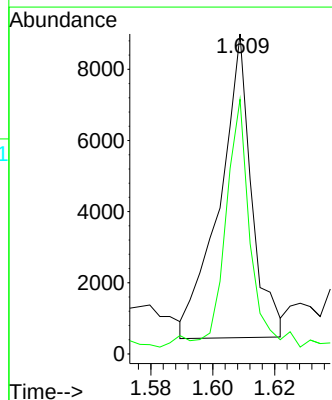
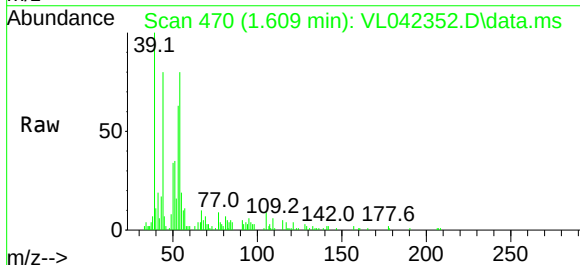
Manual Integrations
APPROVED

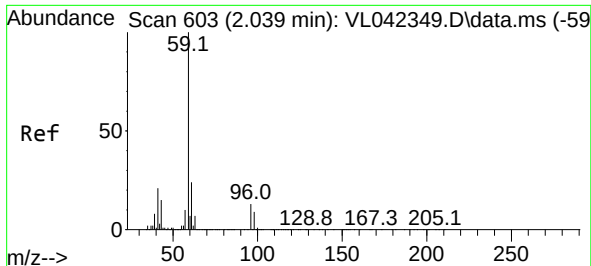
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#16
1,3-Butadiene
Concen: 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 :

VSTDIC0.5

Tgt Ion: 59 Resp: 13640

Ion Ratio Lower Upper

59 100

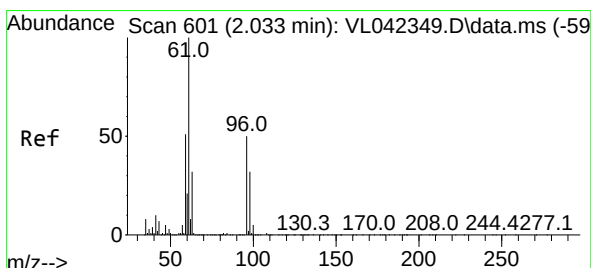
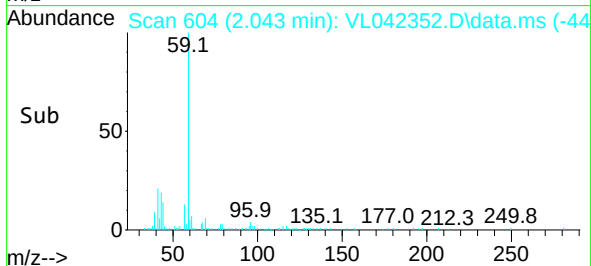
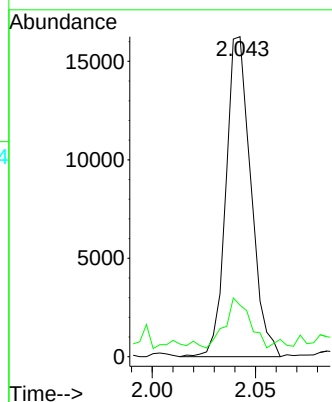
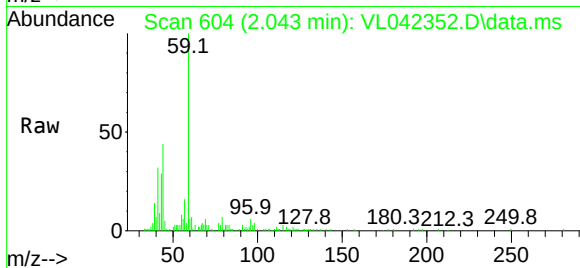
57 16.5 8.7 13.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#18

1,1-Dichloroethene

Concen: 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

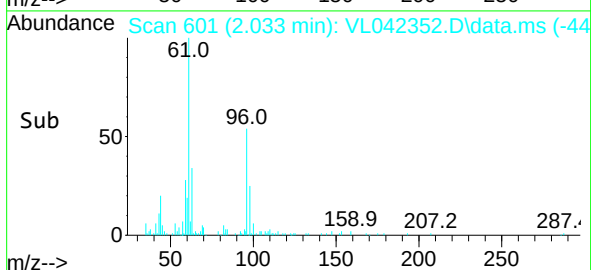
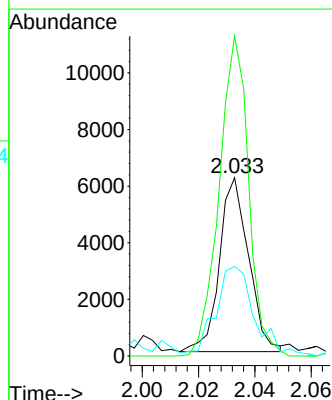
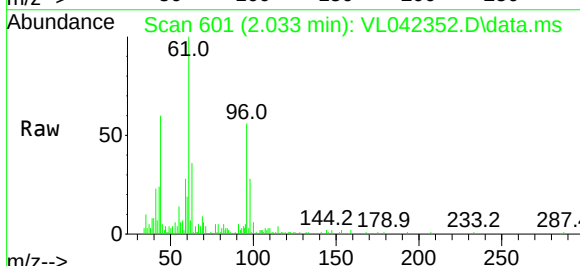
Tgt Ion: 96 Resp: 4430

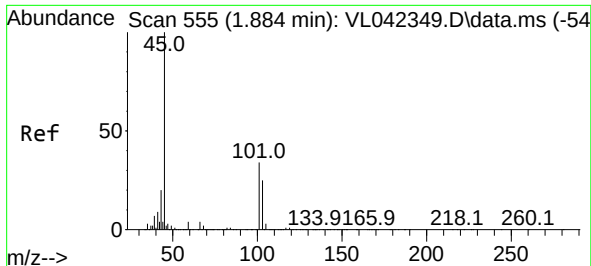
Ion Ratio Lower Upper

96 100

61 183.9 160.2 240.2

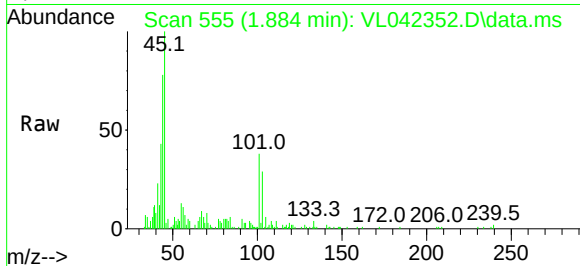
98 49.7 51.0 76.4





#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

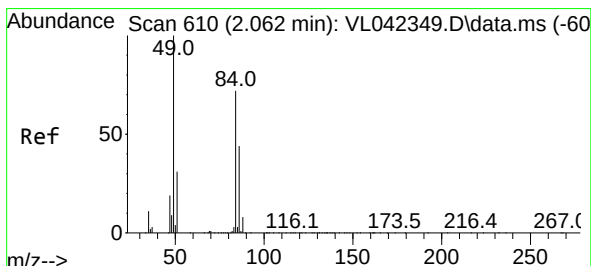
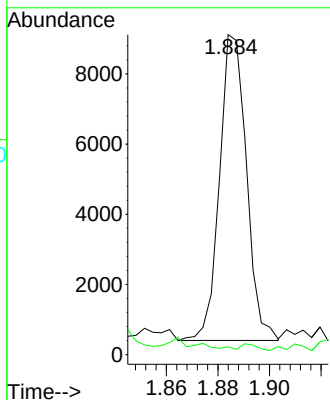
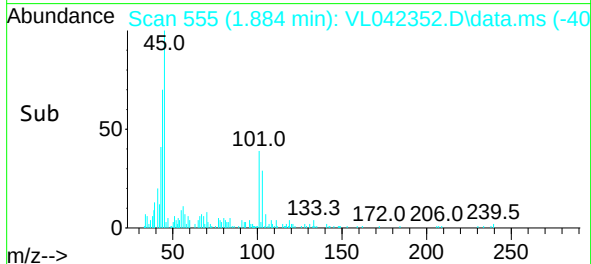
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



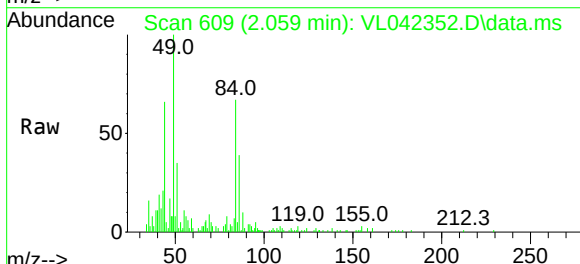
Tgt Ion: 45 Resp: 632
Ion Ratio Lower Upper
45 100
58 3.8 34.5 51.7

Manual Integrations
APPROVED

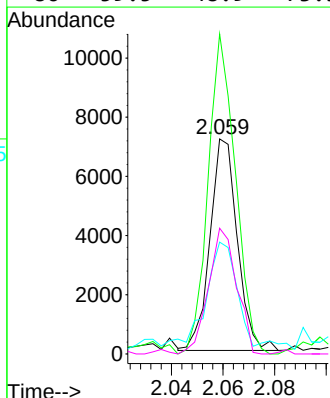
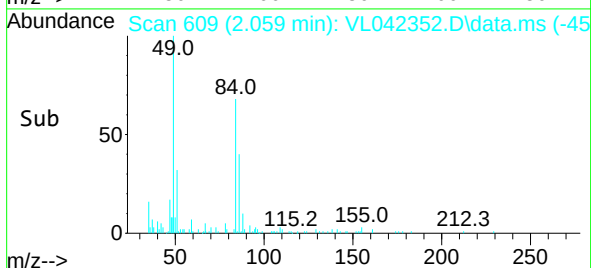
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

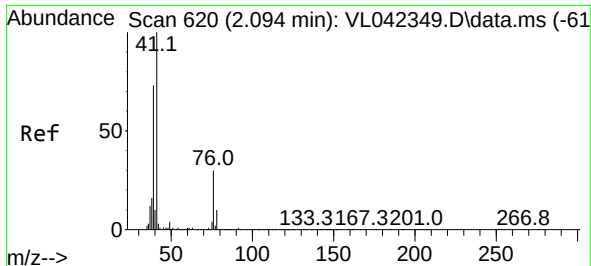


#20
Methylene Chloride
Concen: 0.682 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19



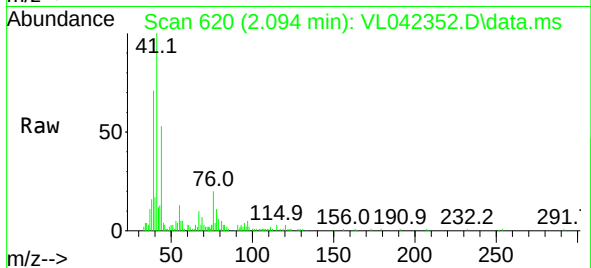
Tgt Ion: 84 Resp: 5273
Ion Ratio Lower Upper
84 100
49 151.3 111.6 167.4
51 48.1 35.1 52.7
86 59.5 48.9 73.3





#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

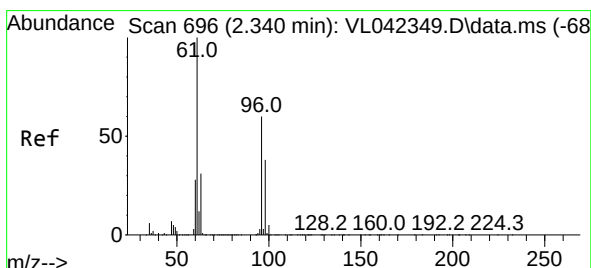
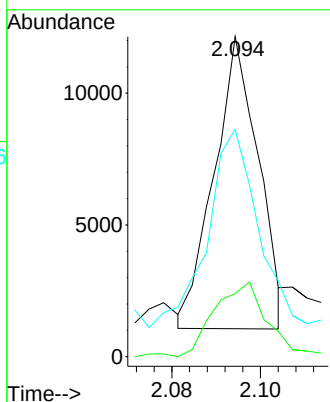
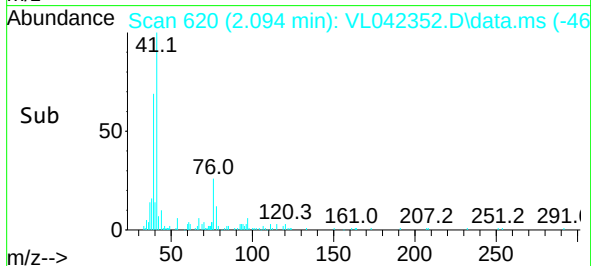
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



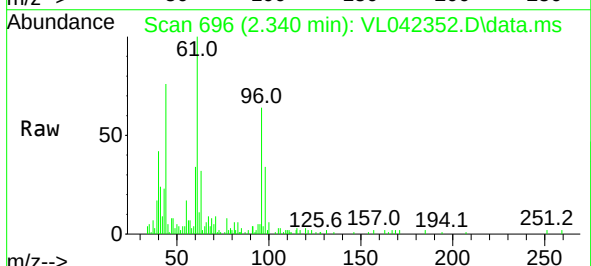
Tgt Ion: 41 Resp: 7692
 Ion Ratio Lower Upper
 41 100
 76 31.1 24.8 37.2
 39 98.8 60.6 90.8

Manual Integrations
 APPROVED

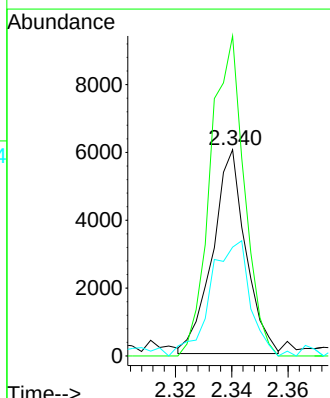
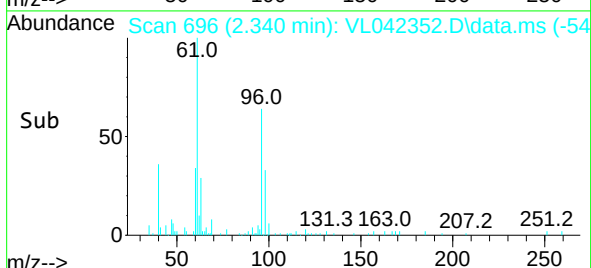
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

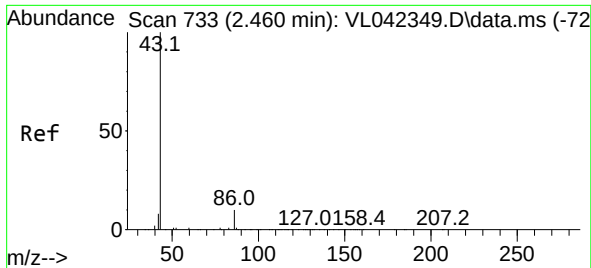


#22
 trans-1,2-Dichloroethene
 Concen: 0.557 ppbv
 RT: 2.340 min Scan# 696
 Delta R.T. -0.000 min
 Lab File: VL042352.D
 Acq: 17 Apr 2025 11:19



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





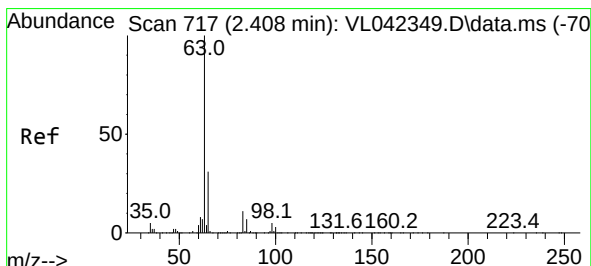
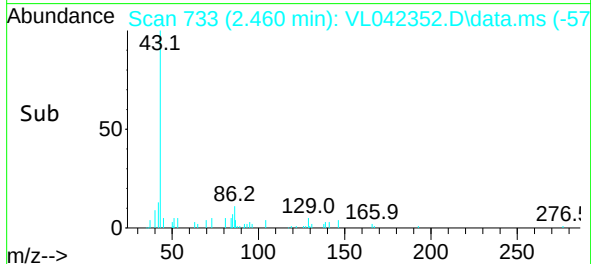
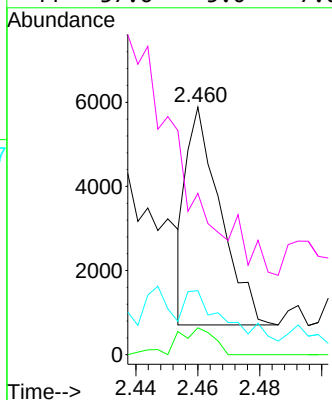
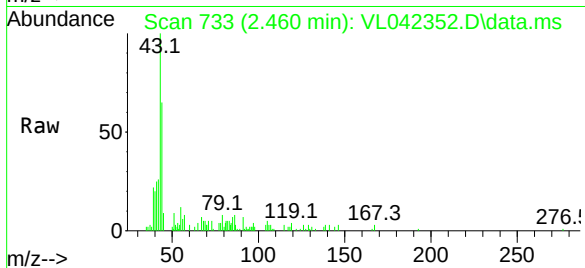
#23
 Vinyl Acetate
 Concen: 0.495 ppbv
 RT: 2.460 min Scan# 717
 Delta R.T. -0.000 min
 Lab File: VL042352.D
 Acq: 17 Apr 2025 11:19

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

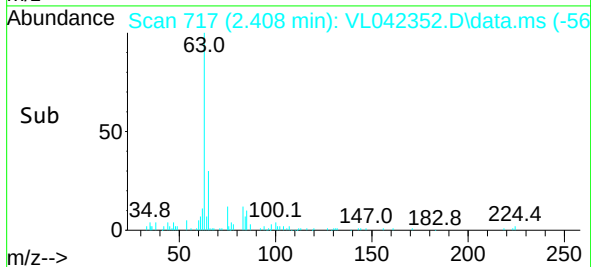
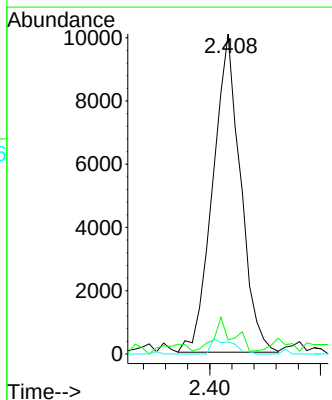
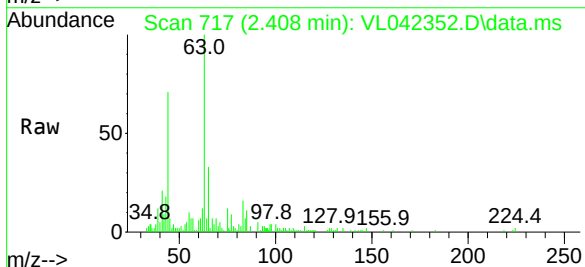
Manual Integrations
 APPROVED

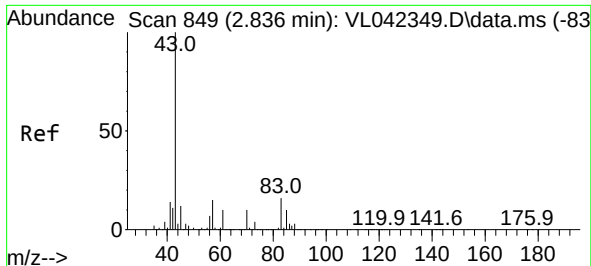
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#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





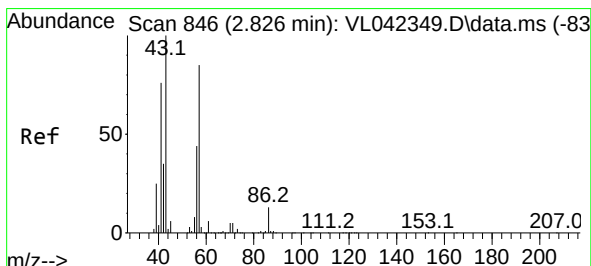
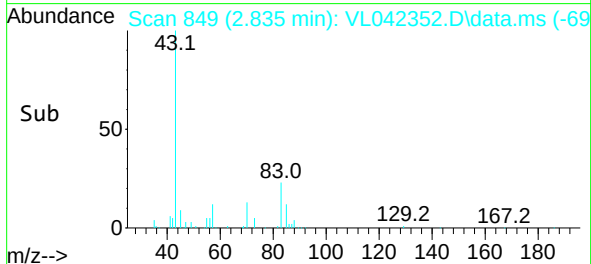
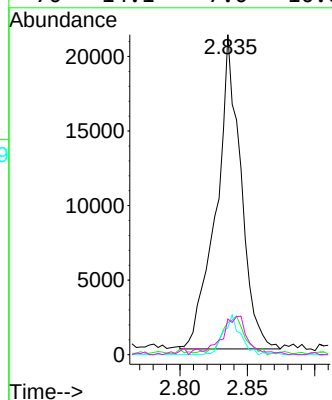
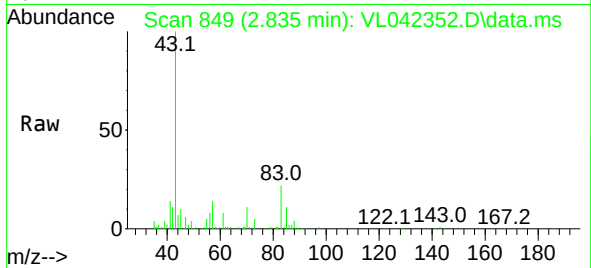
#25
Ethyl Acetate
Concen: 0.548 ppbv
RT: 2.835 min Scan# 849
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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#

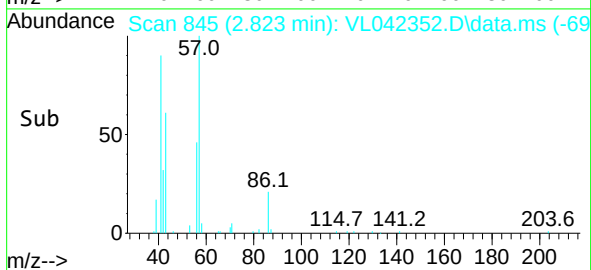
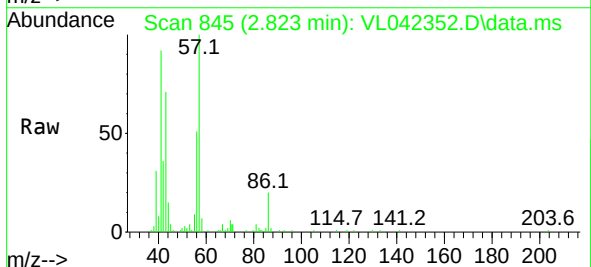
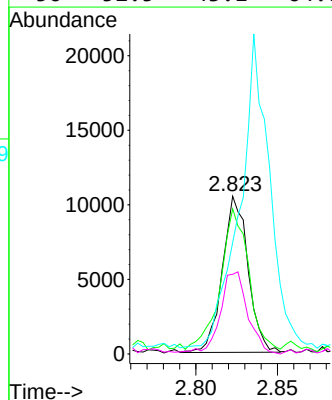
Manual Integrations
APPROVED

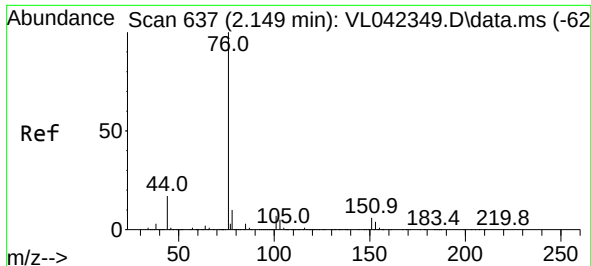
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

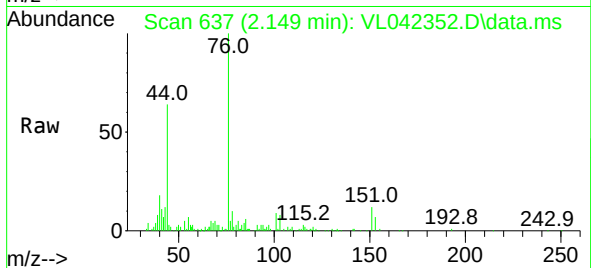
Acq: 17 Apr 2025 11:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.5



Tgt Ion: 76 Resp: 11472

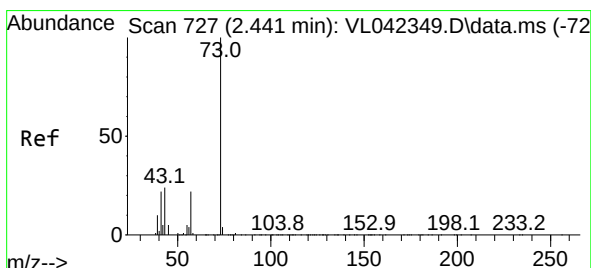
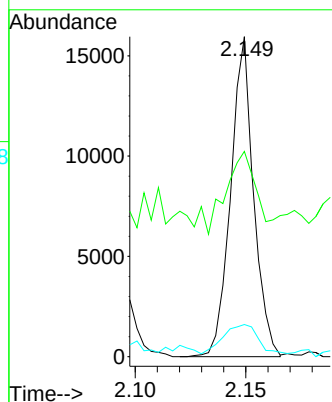
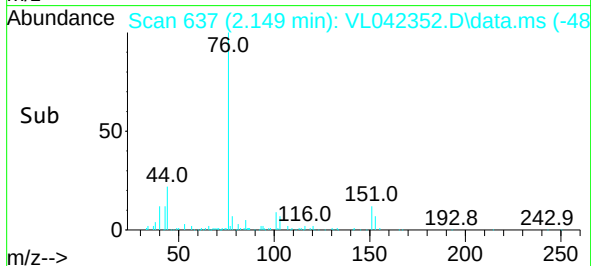
Ion	Ratio	Lower	Upper
76	100		
44	123.7	15.5	23.3
78	18.8	9.3	13.9

Manual Integrations

APPROVED

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

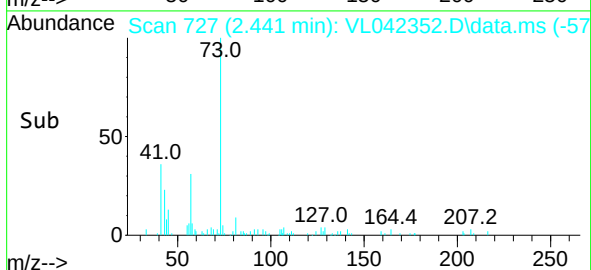
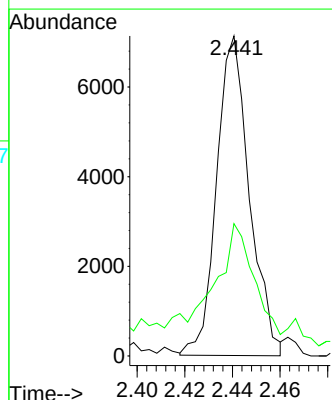
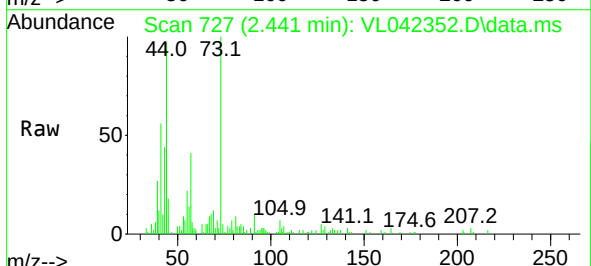
Delta R.T. -0.000 min

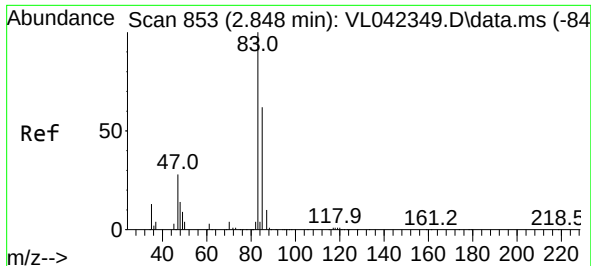
Lab File: VL042352.D

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

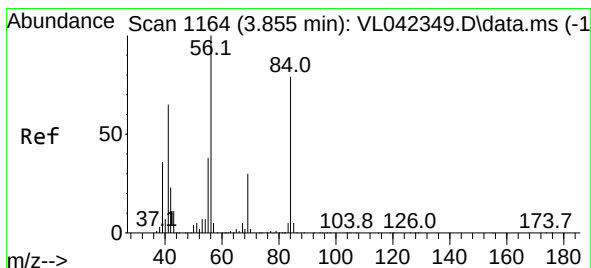
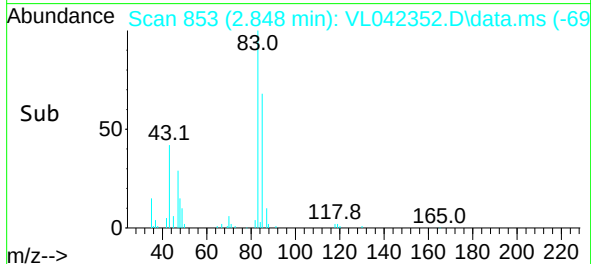
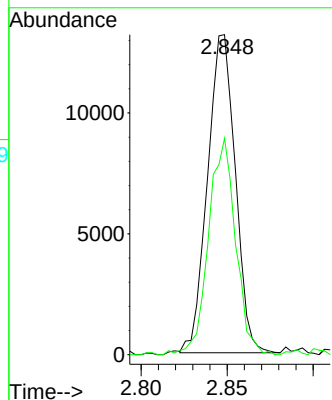
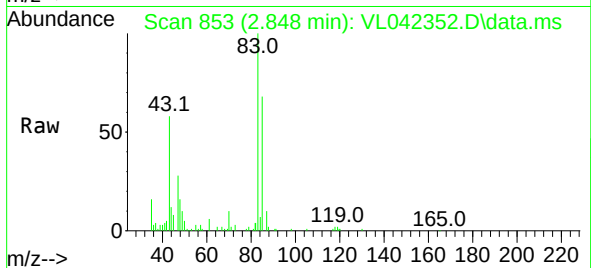
85 68.0 50.0 75.0

Manual Integrations

APPROVED

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

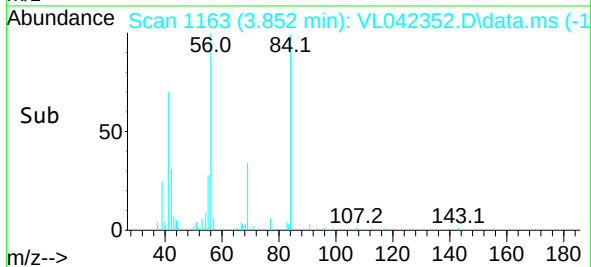
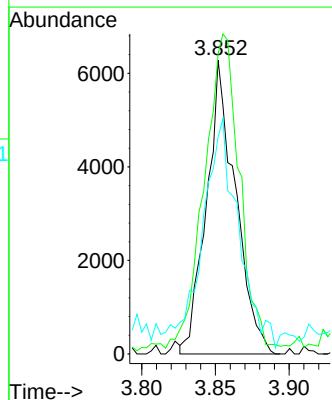
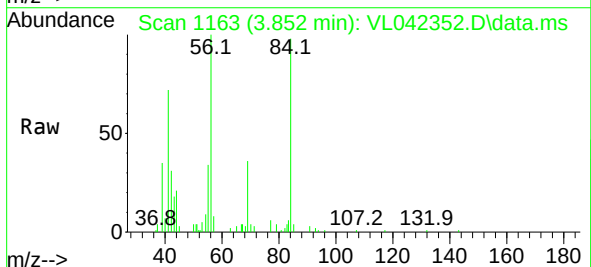
Tgt Ion: 84 Resp: 8572

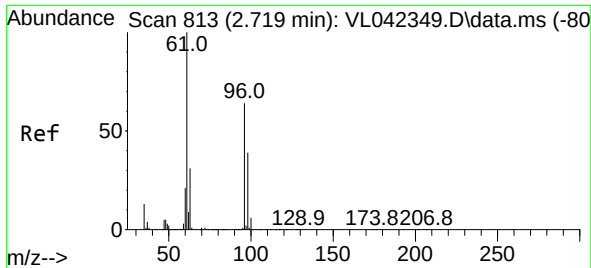
Ion Ratio Lower Upper

84 100

56 132.8 101.0 151.4

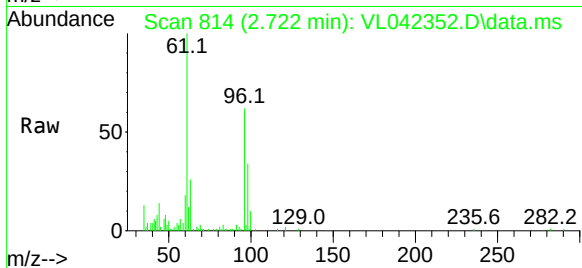
41 89.8 67.4 101.0





#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

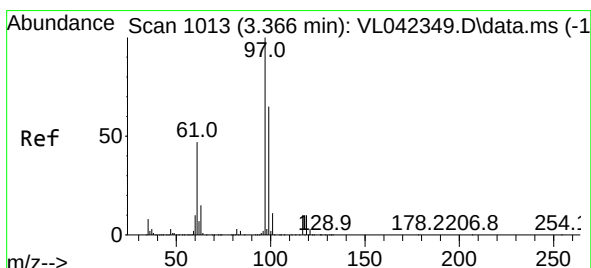
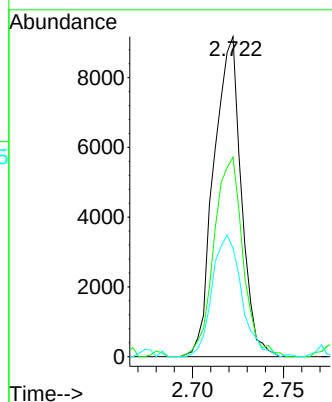
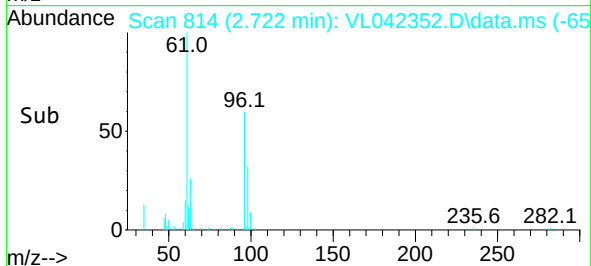
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



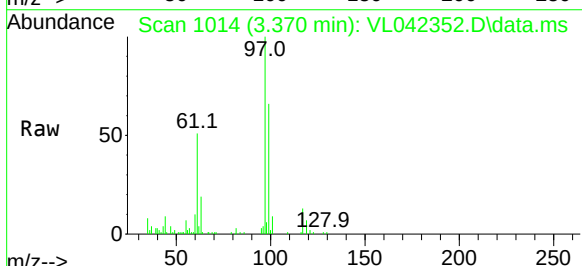
Tgt Ion: 61 Resp: 957
 Ion Ratio Lower Upper
 61 100
 96 62.3 50.8 76.2
 98 34.0 30.9 46.3

Manual Integrations
 APPROVED

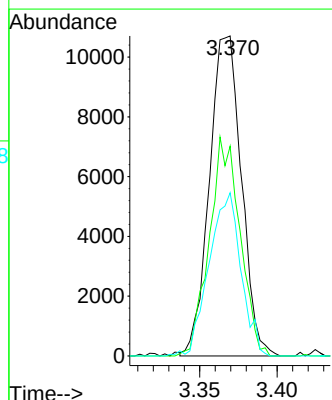
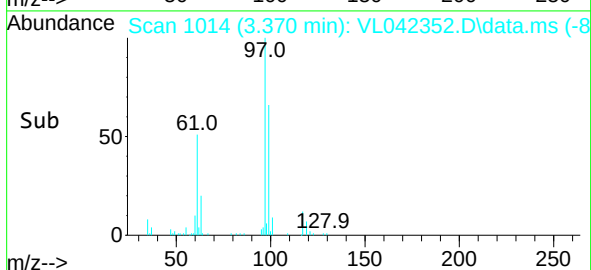
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

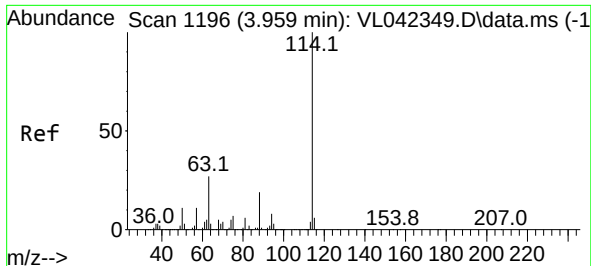


#32
 1,1,1-Trichloroethane
 Concen: 0.516 ppbv
 RT: 3.370 min Scan# 1014
 Delta R.T. 0.003 min
 Lab File: VL042352.D
 Acq: 17 Apr 2025 11:19



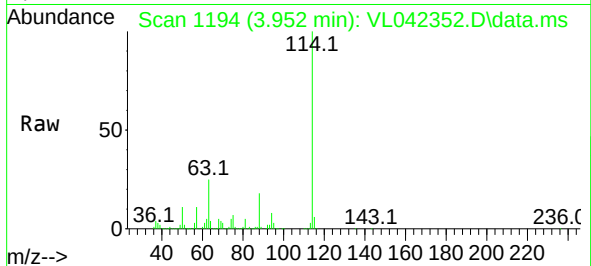
Tgt Ion: 97 Resp: 15413
 Ion Ratio Lower Upper
 97 100
 99 65.6 51.0 76.4
 61 50.8 38.8 58.2





#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

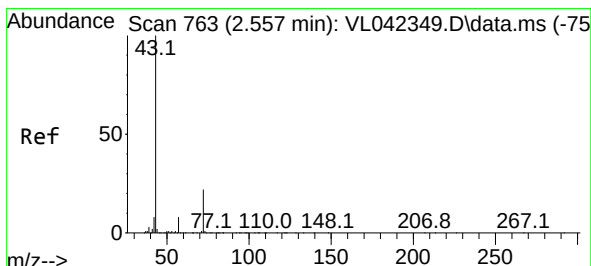
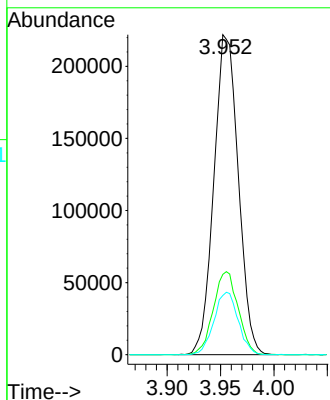
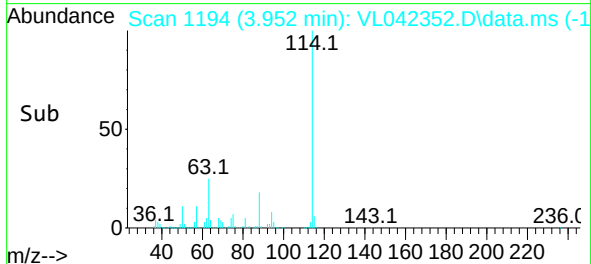
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



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

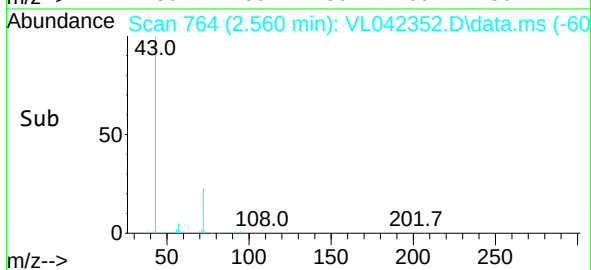
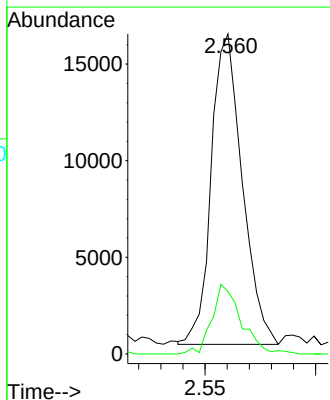
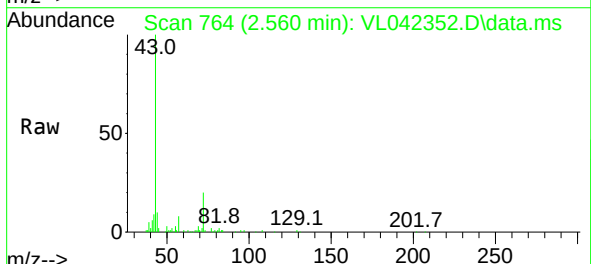
Manual Integrations
APPROVED

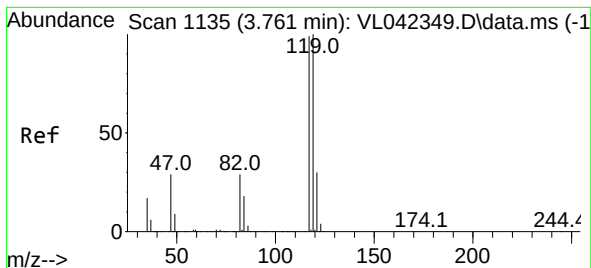
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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 :

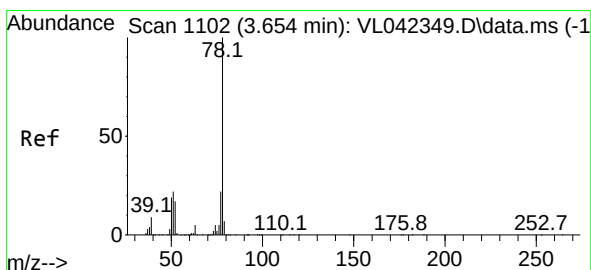
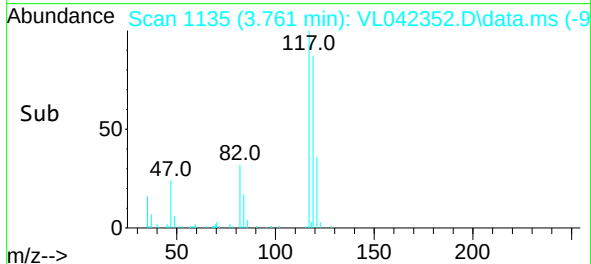
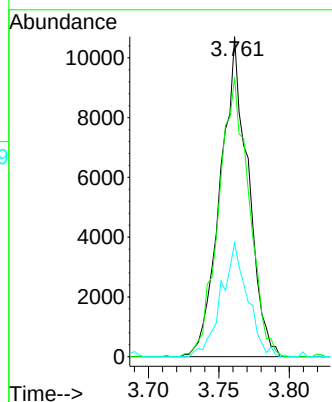
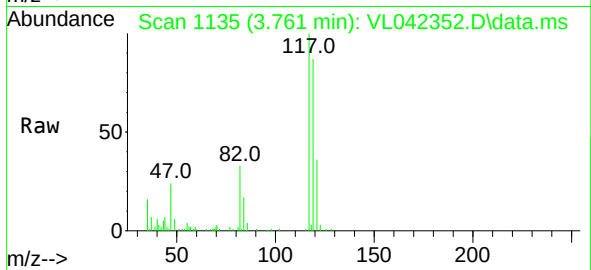
VSTDICC0.5

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

APPROVED

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



#36

Benzene

Concen: 0.531 ppbv

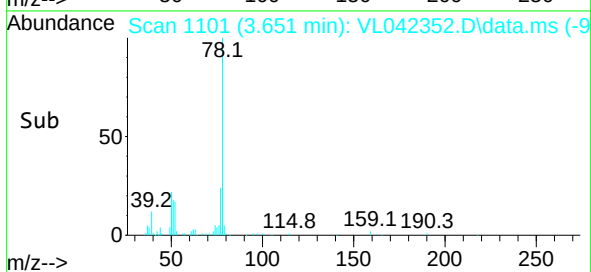
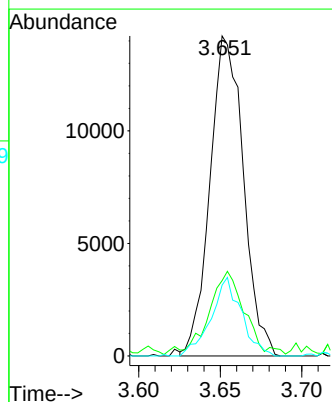
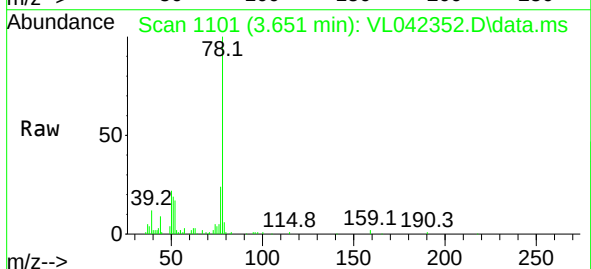
RT: 3.651 min Scan# 1101

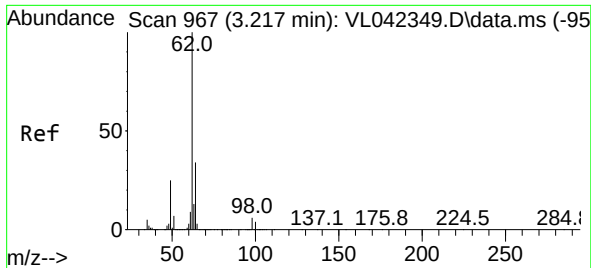
Delta R.T. -0.003 min

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





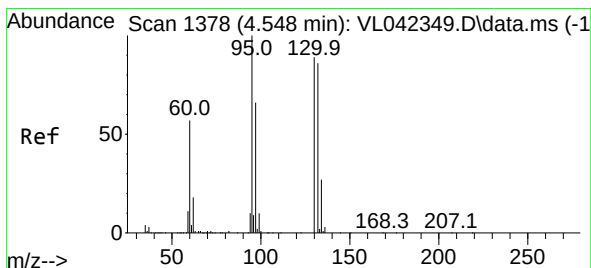
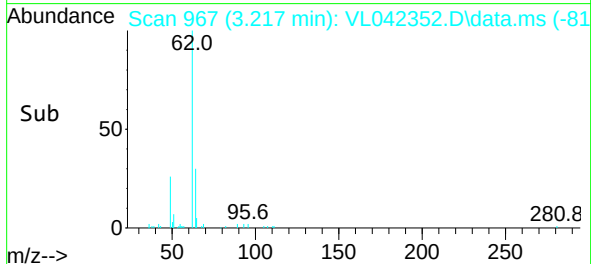
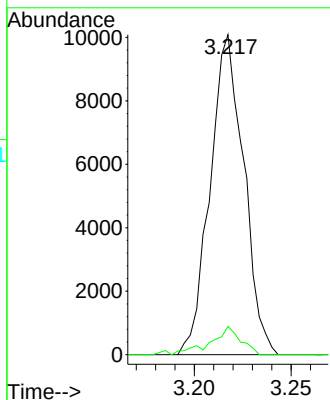
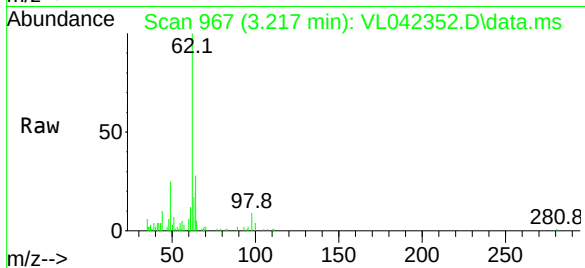
#37
1,2-Dichloroethane
Concen: 0.533 ppbv
RT: 3.217 min Scan# 967
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 62 Resp: 12194
Ion Ratio Lower Upper
62 100
98 8.1 5.1 7.7

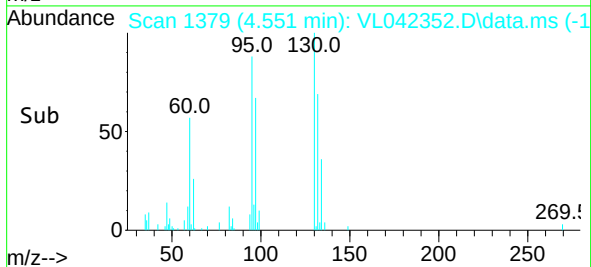
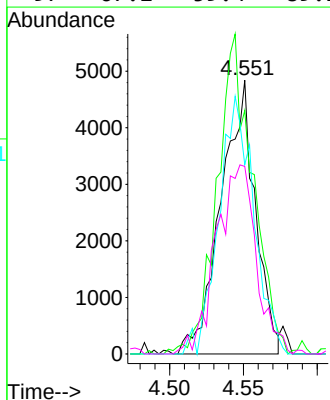
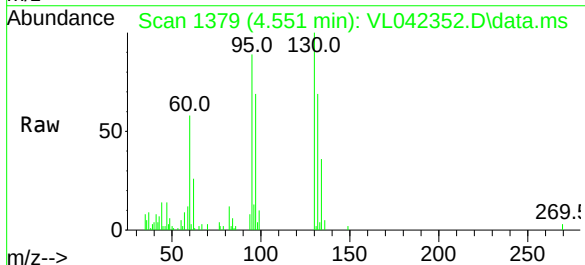
Manual Integrations
APPROVED

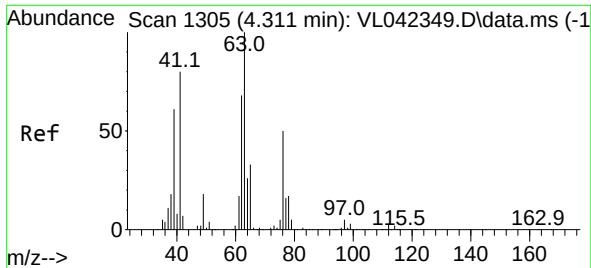
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

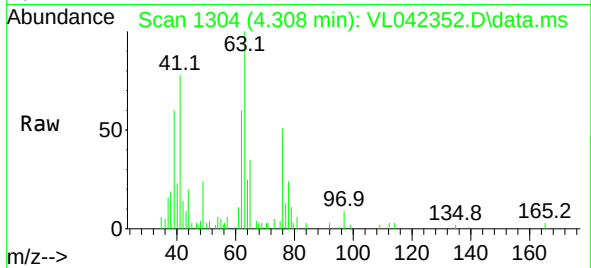
Tgt Ion:130 Resp: 7819
Ion Ratio Lower Upper
130 100
95 86.2 89.8 134.6#
132 69.1 77.7 116.5#
97 67.2 59.4 89.2





#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

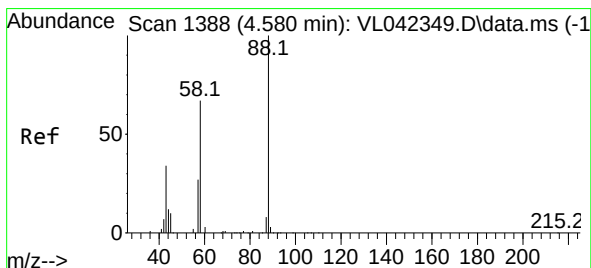
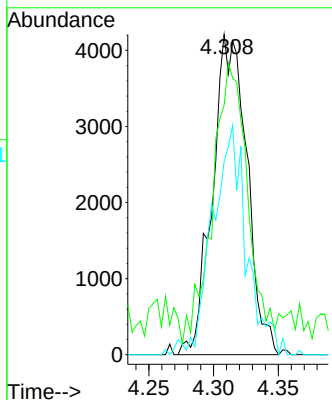
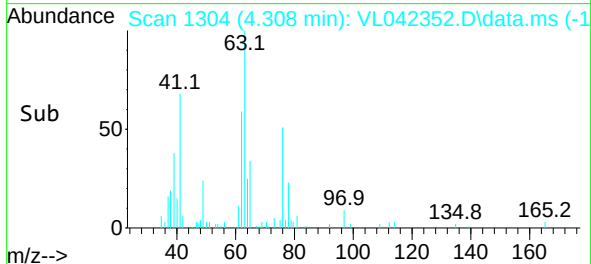
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



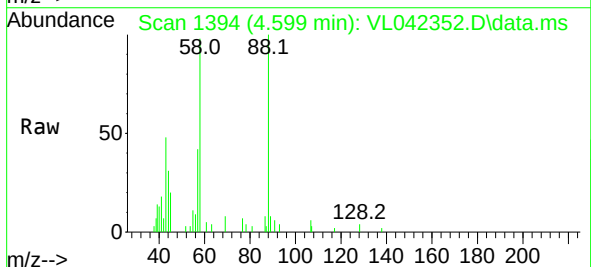
Tgt Ion: 63 Resp: 7790
Ion Ratio Lower Upper
63 100
41 78.0 64.2 96.2
62 60.4 54.3 81.5

Manual Integrations
APPROVED

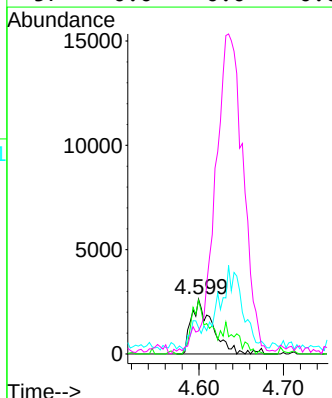
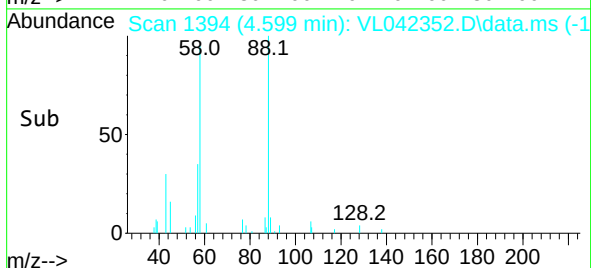
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

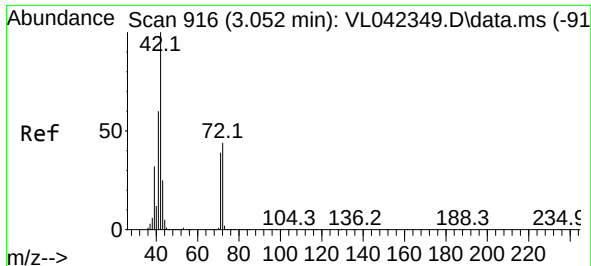


#40
1,4-Dioxane
Concen: 0.603 ppbv m
RT: 4.599 min Scan# 1394
Delta R.T. 0.019 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19



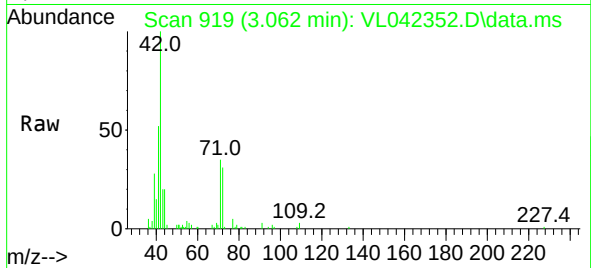
Tgt Ion: 88 Resp: 4637
Ion Ratio Lower Upper
88 100
58 118.1 61.4 92.0#
43 0.0 23.2 34.8#
57 0.0 0.0 0.0





#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

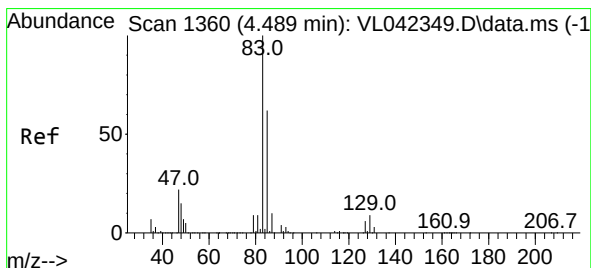
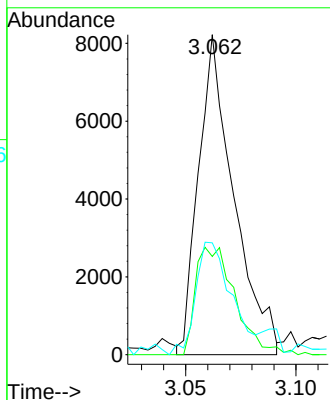
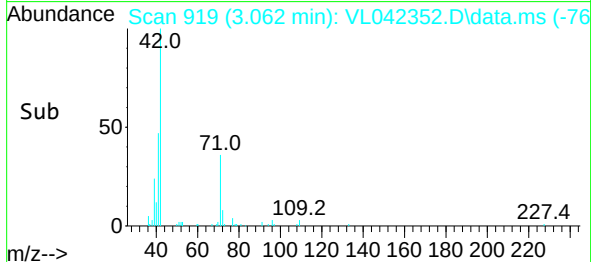
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



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

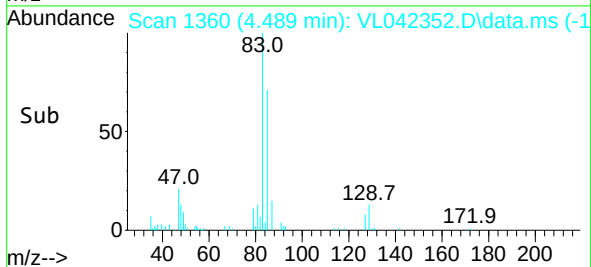
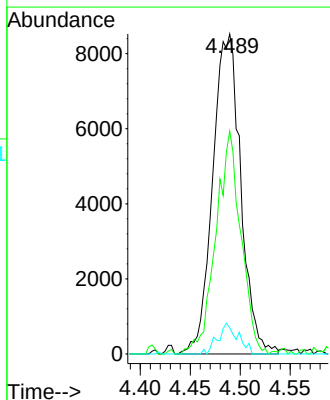
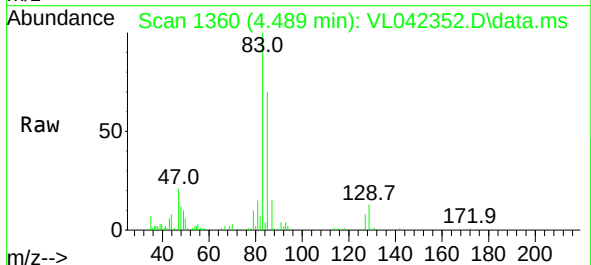
Manual Integrations
APPROVED

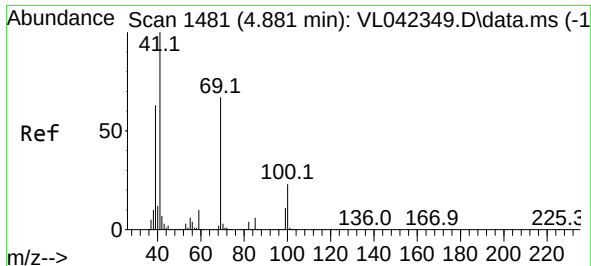
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

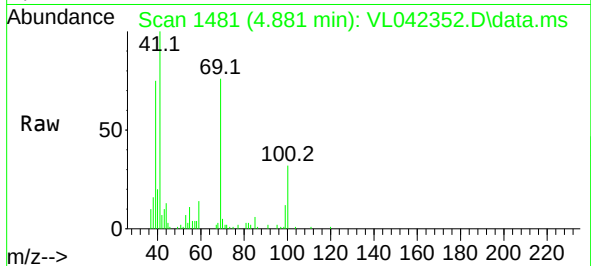
Tgt Ion: 83 Resp: 16642
Ion Ratio Lower Upper
83 100
85 69.6 49.7 74.5
127 8.2 5.1 7.7#





#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

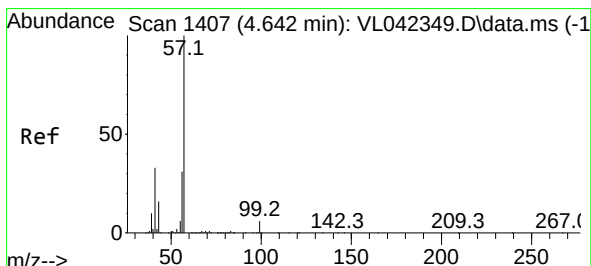
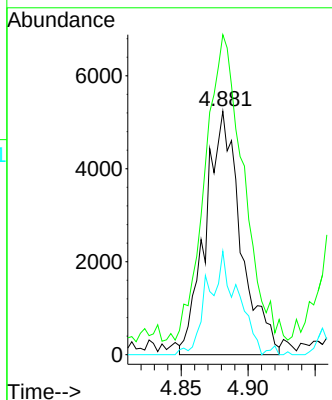
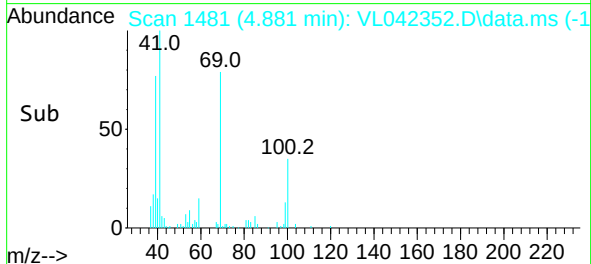
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5



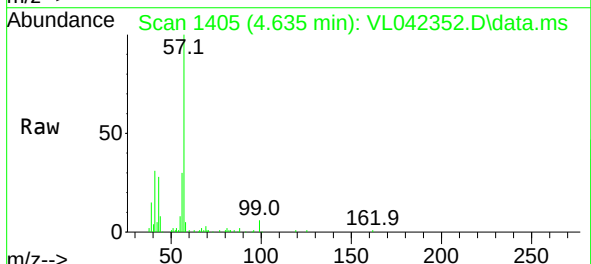
Tgt Ion: 69 Resp: 9620
Ion Ratio Lower Upper
69 100
41 0.0 118.6 177.8
100 0.0 28.2 42.2

Manual Integrations
APPROVED

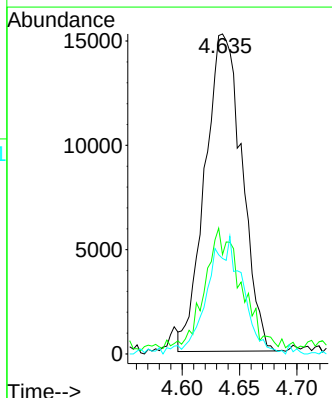
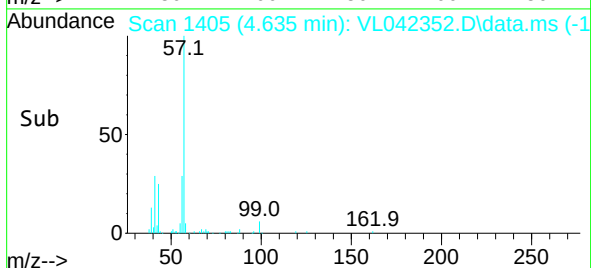
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

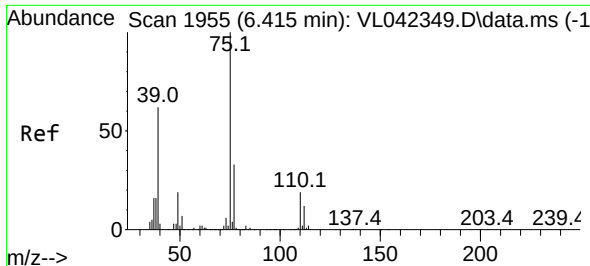


#44
2,2,4-Trimethylpentane
Concen: 0.519 ppbv
RT: 4.635 min Scan# 1405
Delta R.T. -0.006 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19



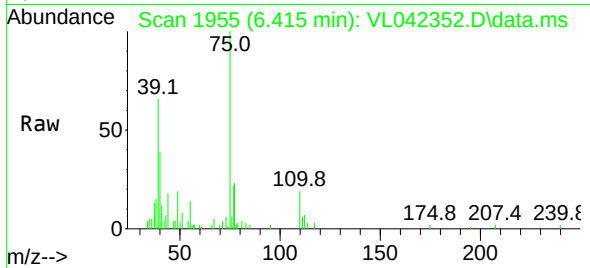
Tgt Ion: 57 Resp: 34170
Ion Ratio Lower Upper
57 100
41 39.1 27.2 40.8
56 37.1 25.7 38.5





#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

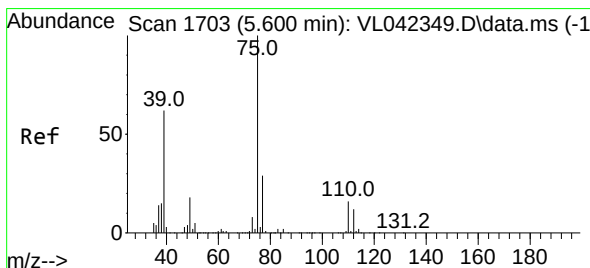
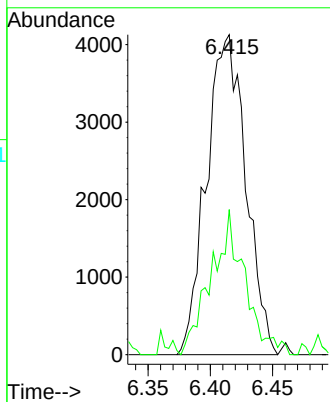
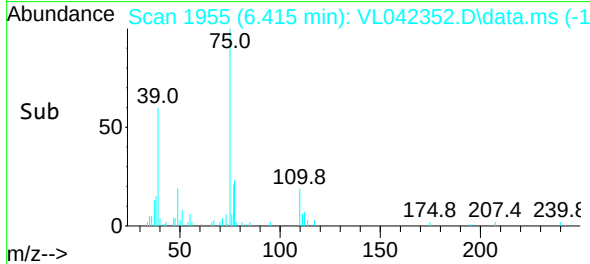
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



Tgt Ion: 75 Resp: 907
Ion Ratio Lower Upper
75 100
77 23.1 27.0 40.6

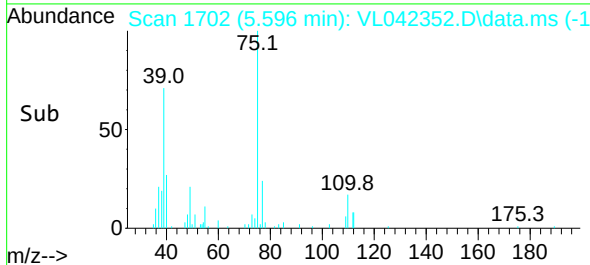
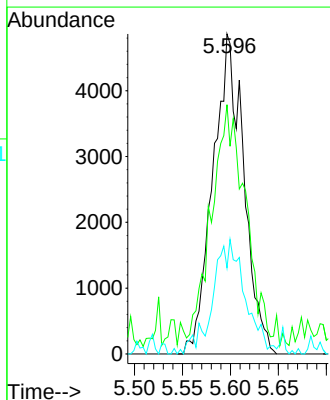
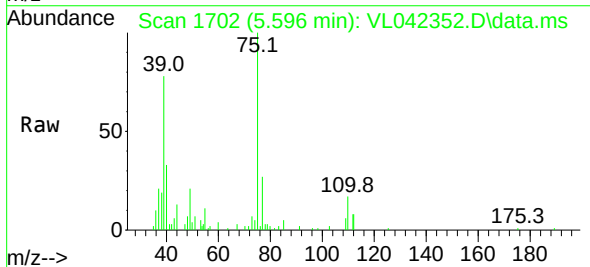
Manual Integrations
APPROVED

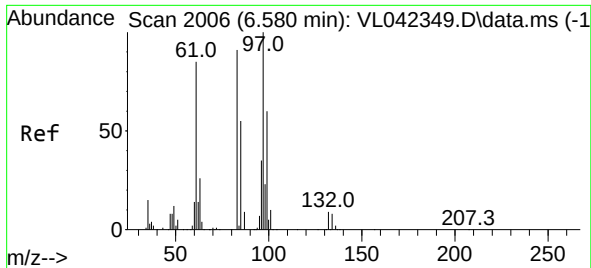
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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





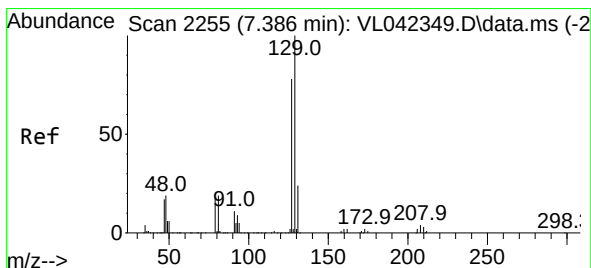
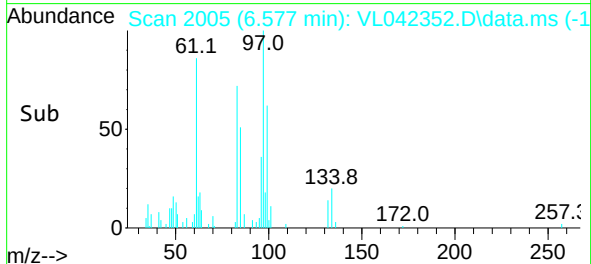
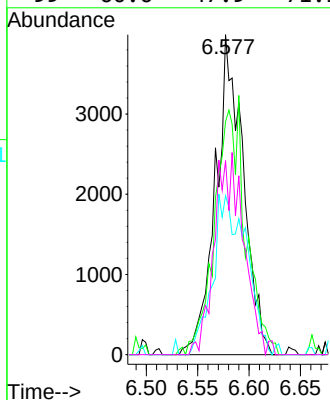
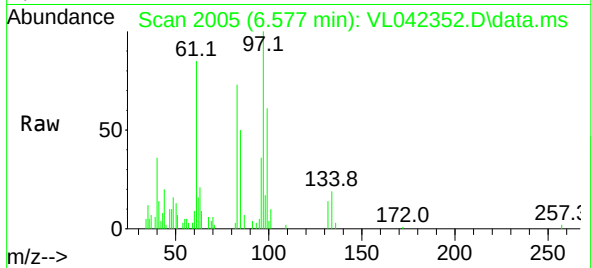
#47
1,1,2-Trichloroethane
Concen: 0.516 ppbv m
RT: 6.577 min Scan# 2006
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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

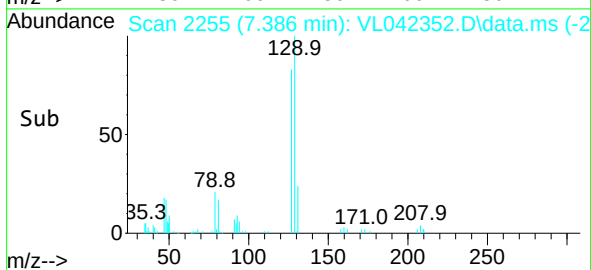
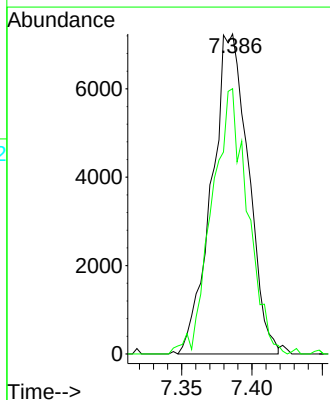
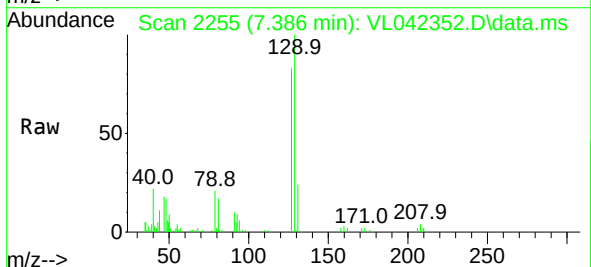
Manual Integrations
APPROVED

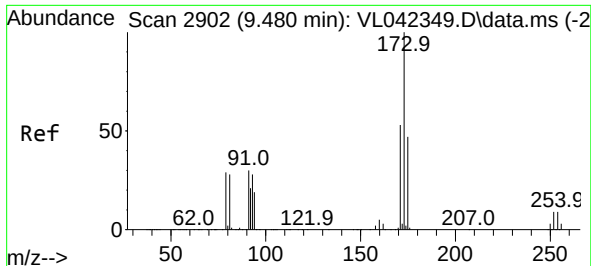
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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





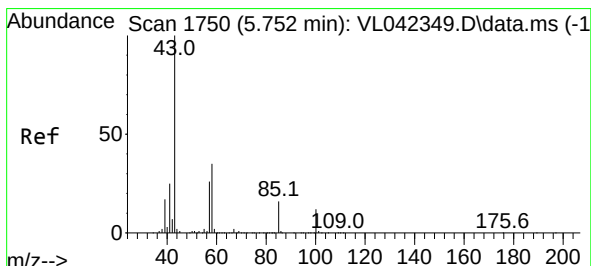
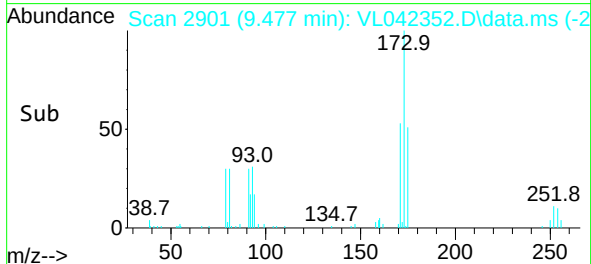
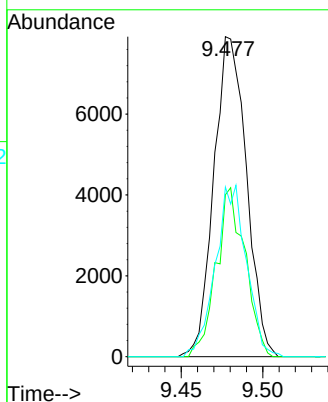
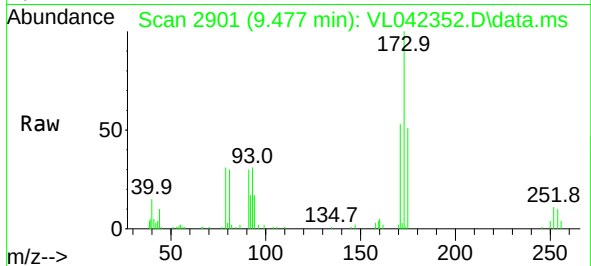
#49
Bromoform
Concen: 0.492 ppbv
RT: 9.477 min Scan# 2902
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion:173 Resp: 10988
Ion Ratio Lower Upper
173 100
175 46.8 38.2 57.2
171 51.2 40.9 61.3

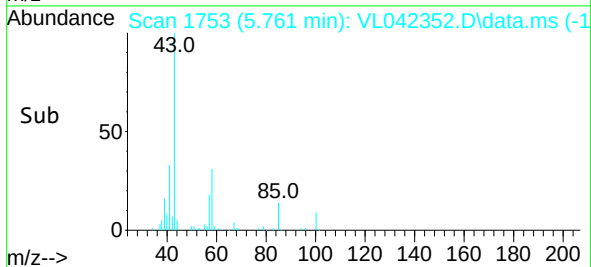
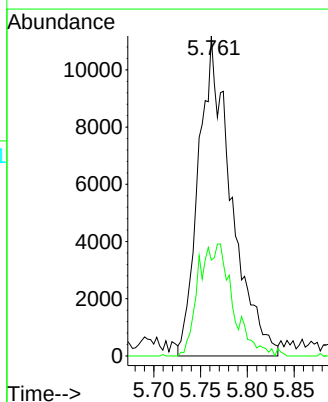
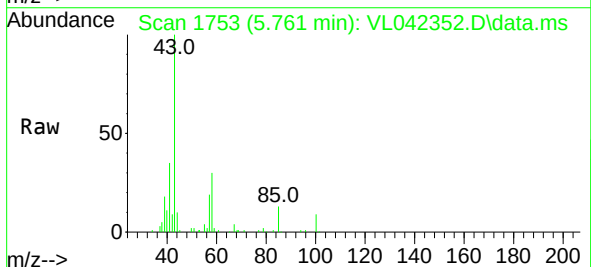
Manual Integrations
APPROVED

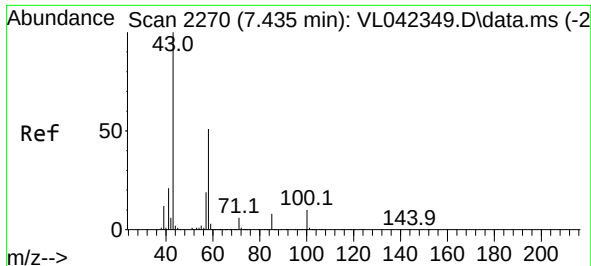
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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#





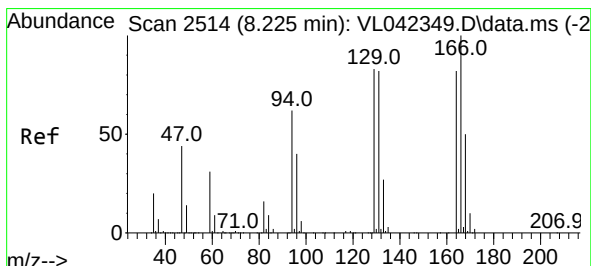
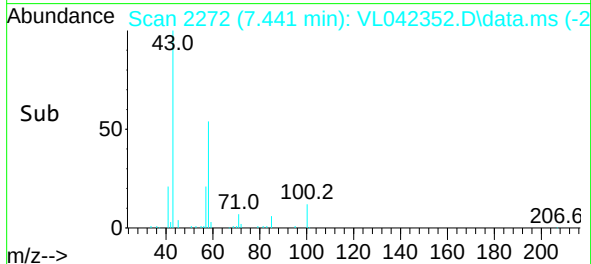
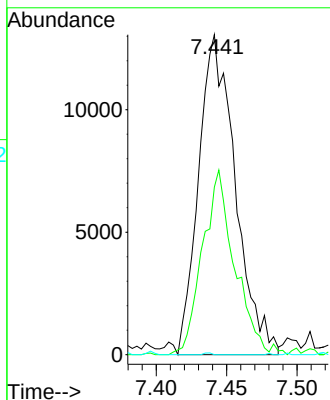
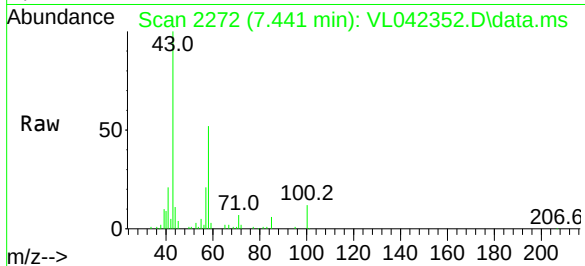
#51
2-Hexanone
Concen: 0.564 ppbv
RT: 7.441 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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

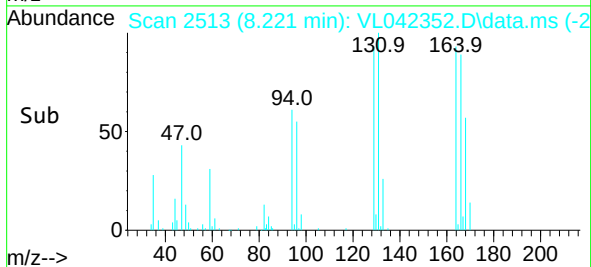
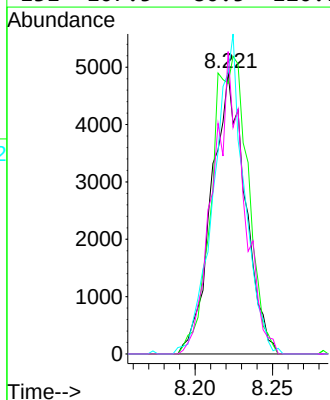
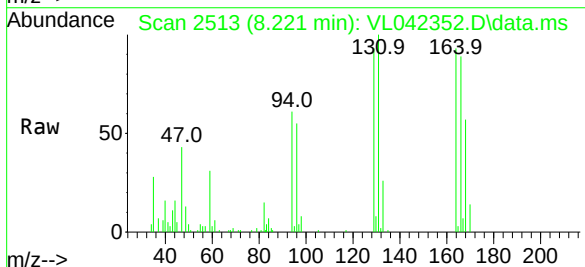
Manual Integrations
APPROVED

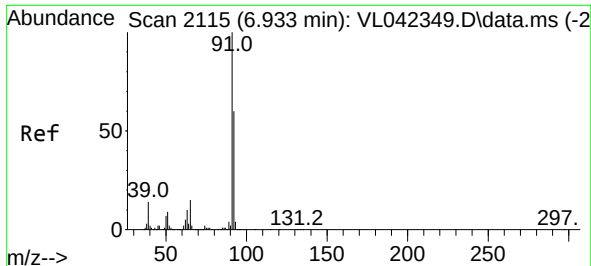
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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





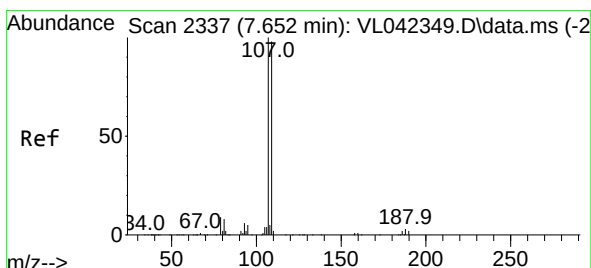
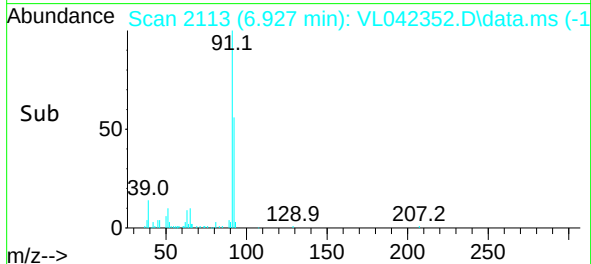
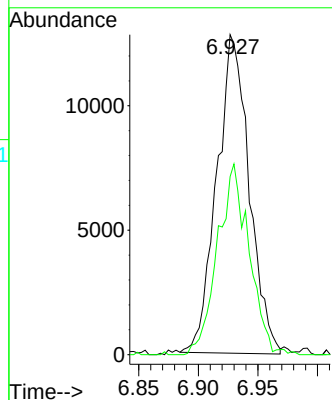
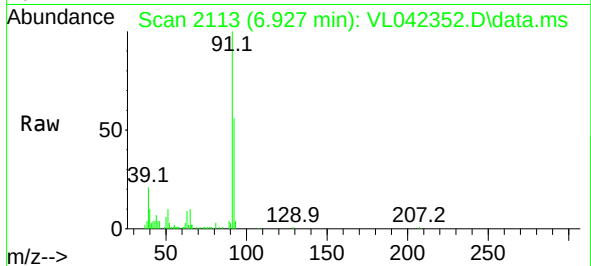
#53
Toluene
Concen: 0.529 ppbv
RT: 6.927 min Scan# 2113
Delta R.T. -0.006 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 91 Resp: 24200
Ion Ratio Lower Upper
91 100
92 58.4 48.2 72.4

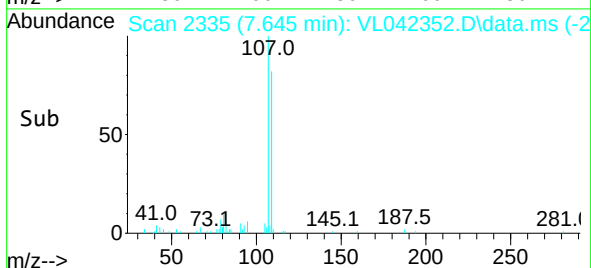
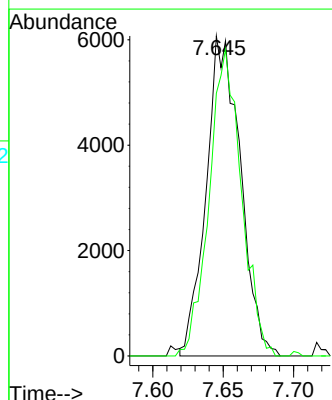
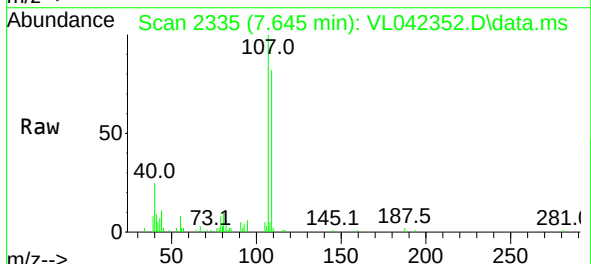
Manual Integrations
APPROVED

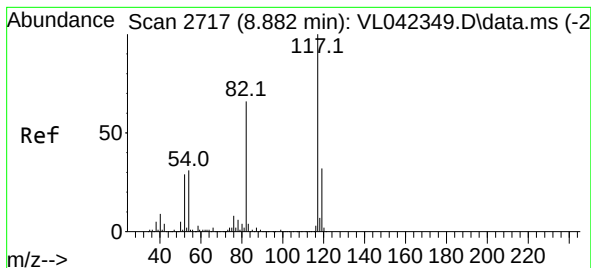
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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 :

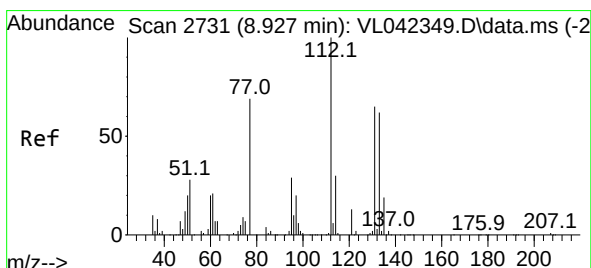
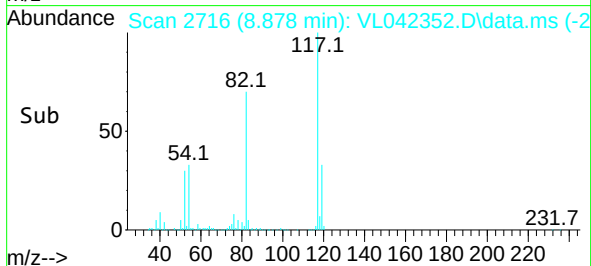
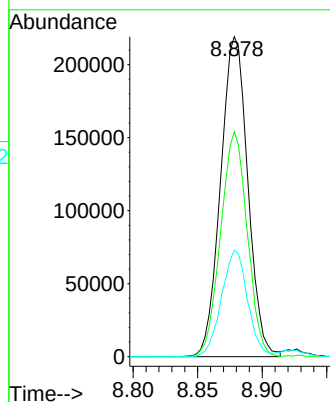
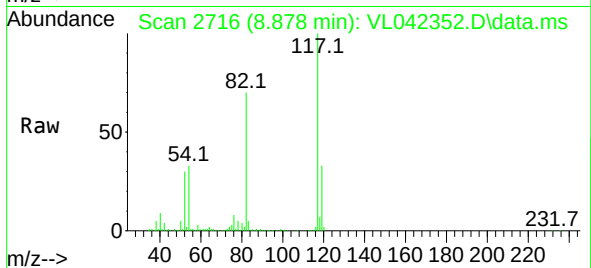
VSTDICC0.5

Tgt Ion:	117	Resp:	32164
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

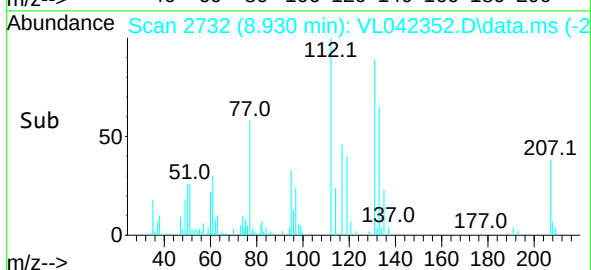
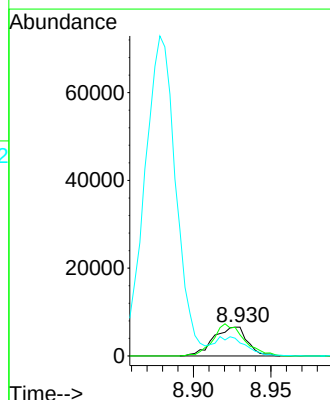
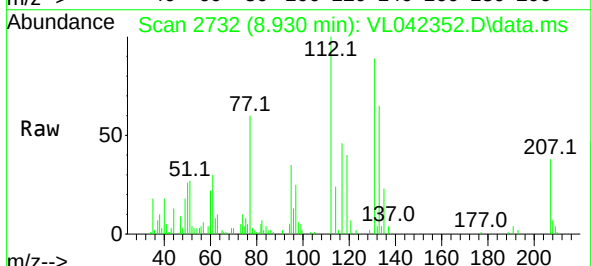
RT: 8.930 min Scan# 2732

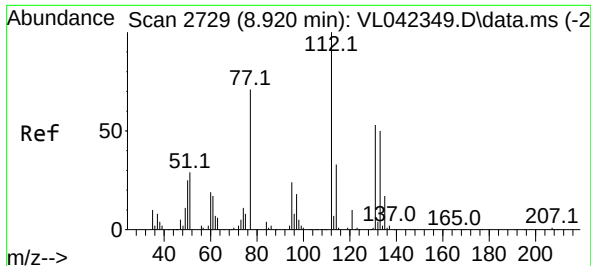
Delta R.T. 0.003 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

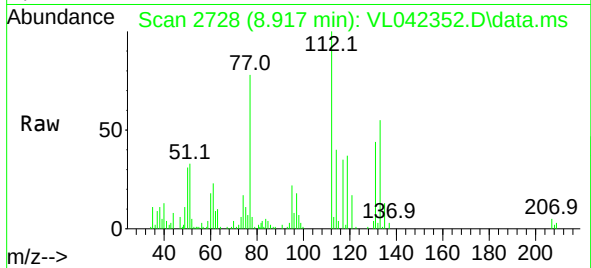
Tgt Ion:	131	Resp:	9987
Ion Ratio	Lower	Upper	
131	100		
133	102.0	78.3	117.5
119	1087.9	48.7	73.1#





#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

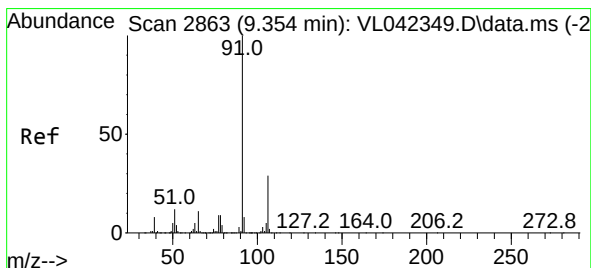
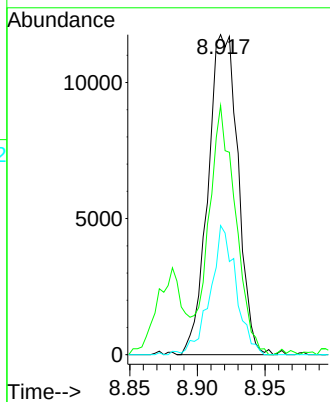
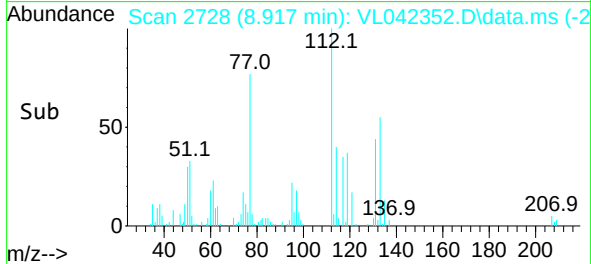
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



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

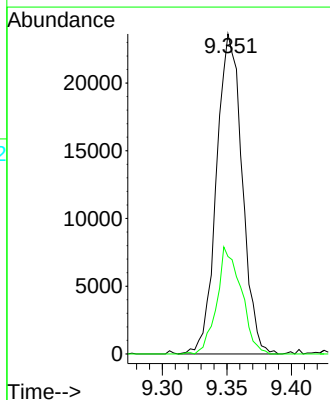
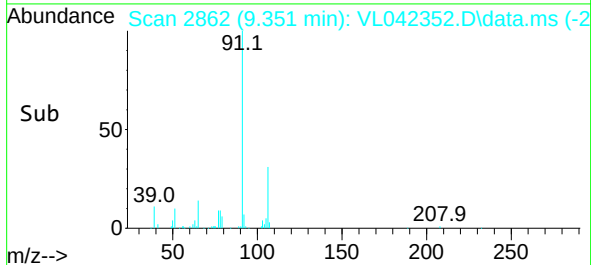
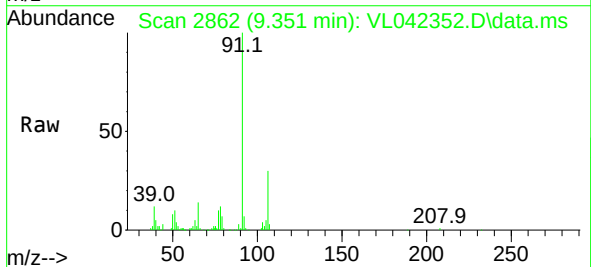
Manual Integrations
APPROVED

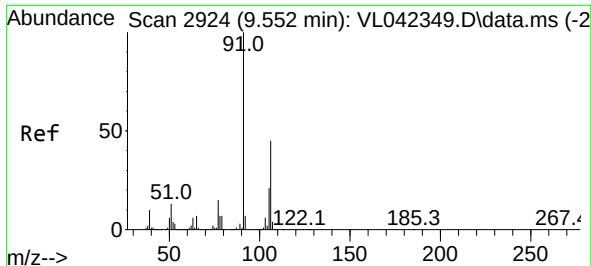
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

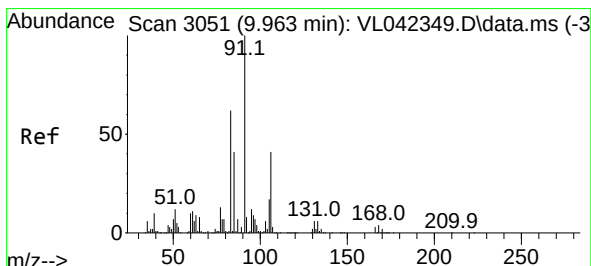
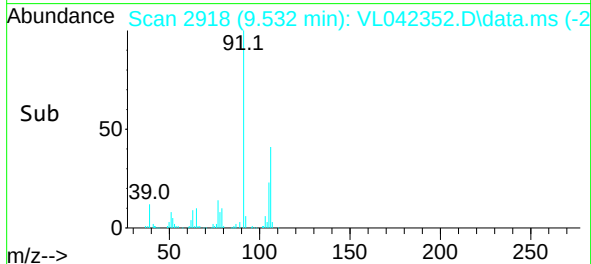
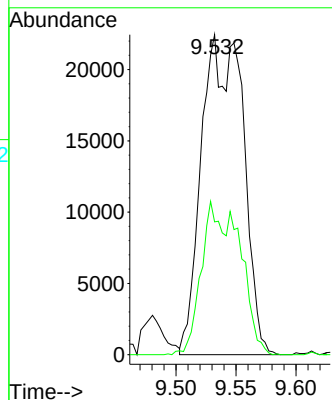
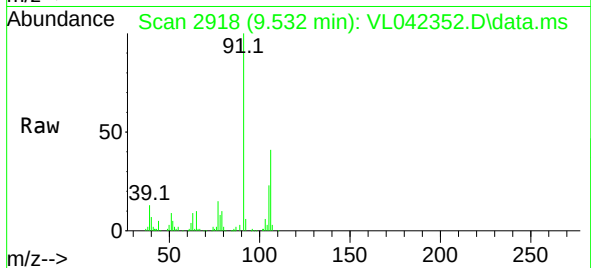
106 0.0 35.4 53.2

Manual Integrations

APPROVED

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

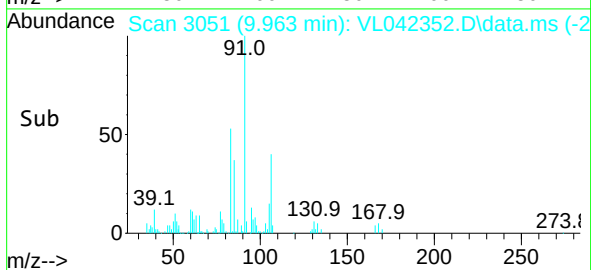
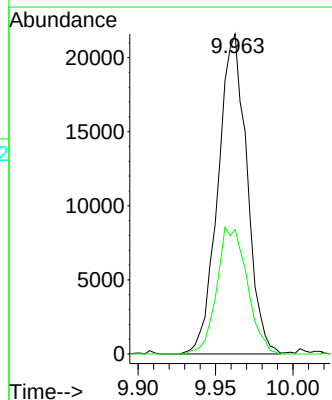
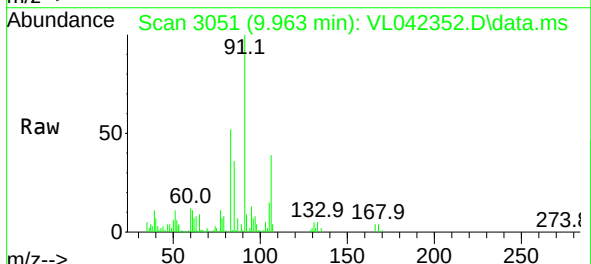
Acq: 17 Apr 2025 11:19

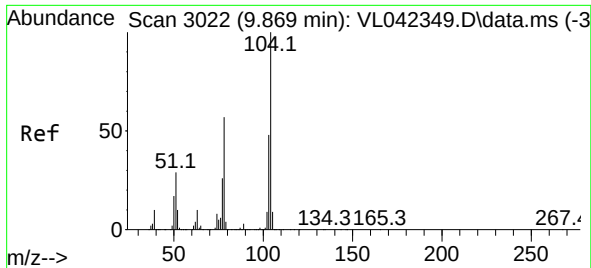
Tgt Ion: 91 Resp: 27983

Ion Ratio Lower Upper

91 100

106 41.6 21.1 63.4





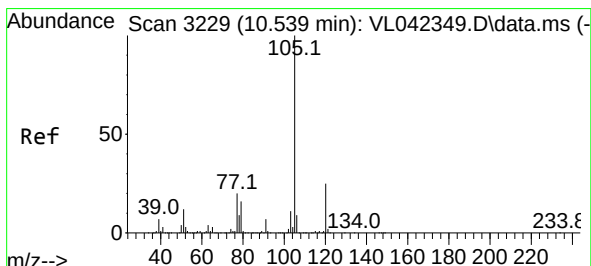
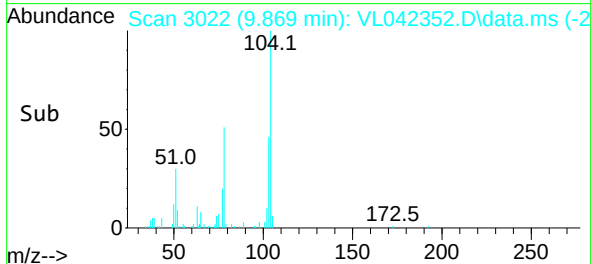
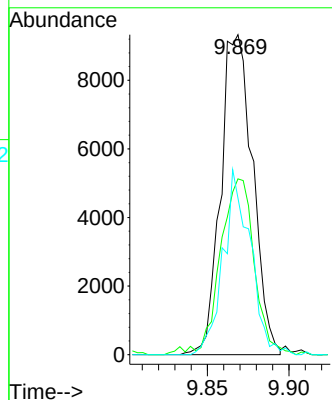
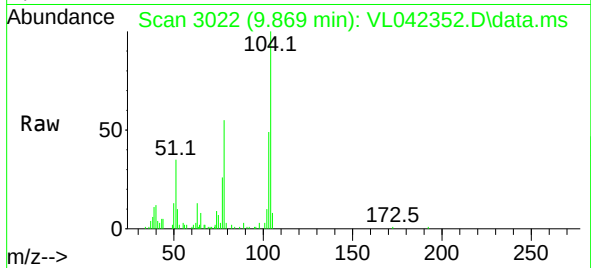
#61
Styrene
Concen: 0.516 ppbv
RT: 9.869 min Scan# 3022
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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

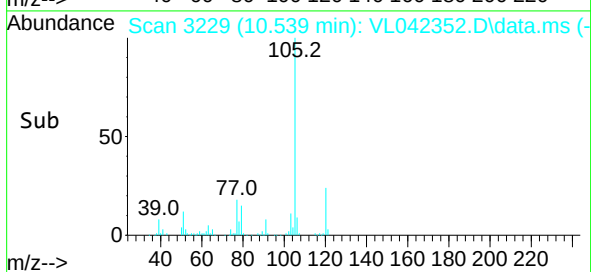
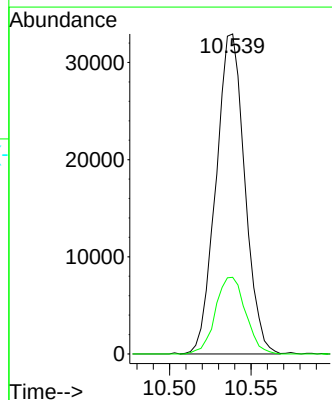
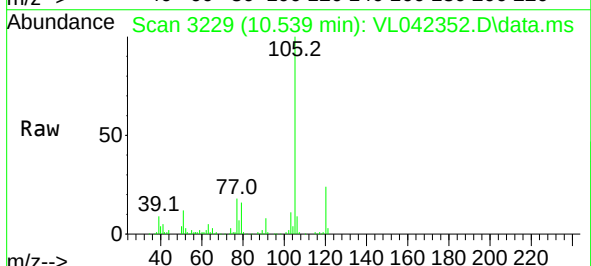
Manual Integrations
APPROVED

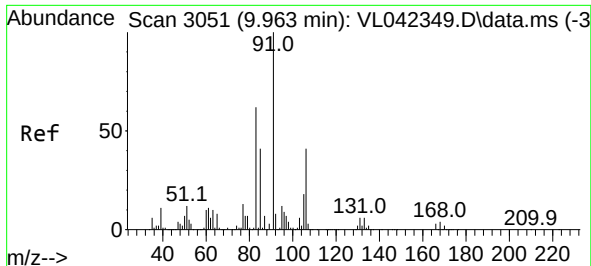
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

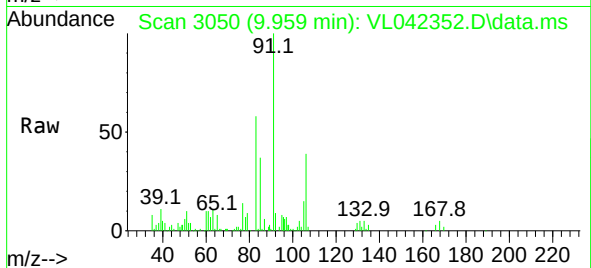
Tgt Ion:105 Resp: 40481
Ion Ratio Lower Upper
105 100
120 24.9 19.8 29.8





#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

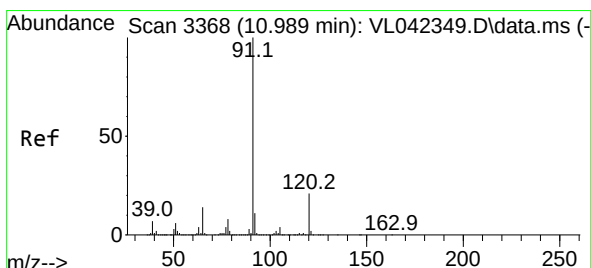
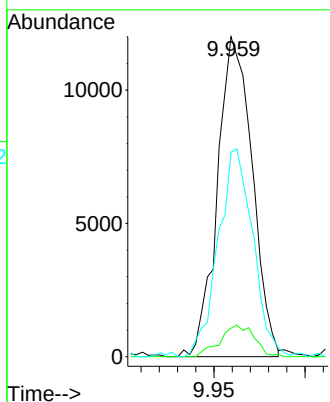
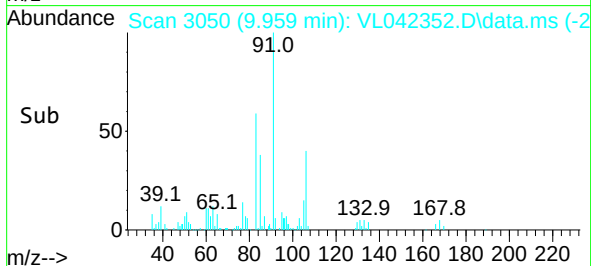
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



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

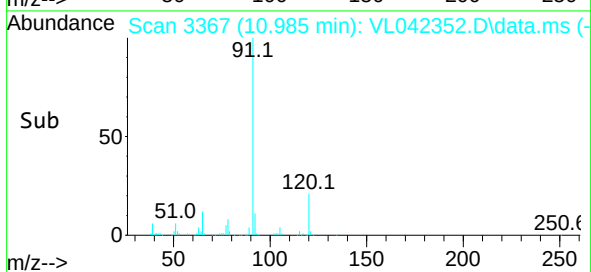
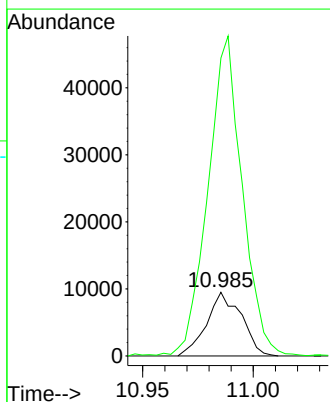
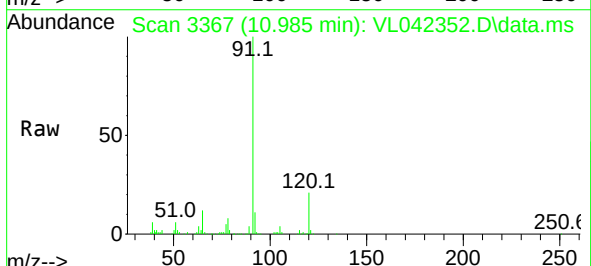
Manual Integrations
APPROVED

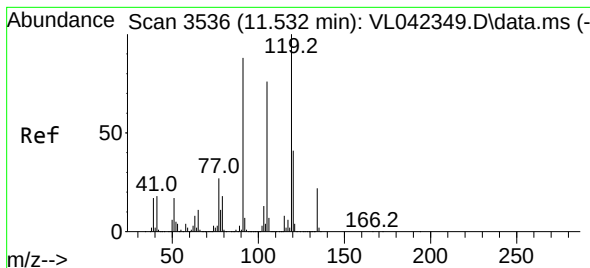
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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 :

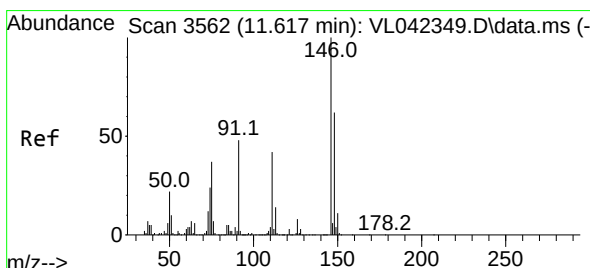
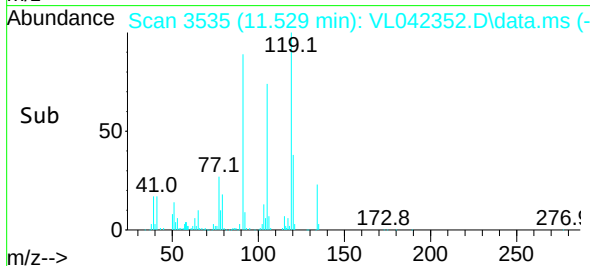
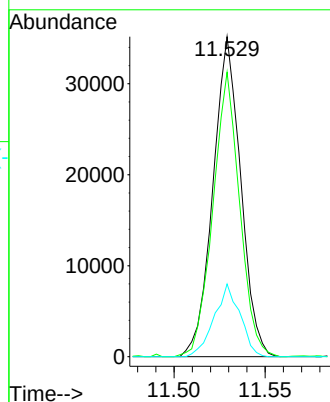
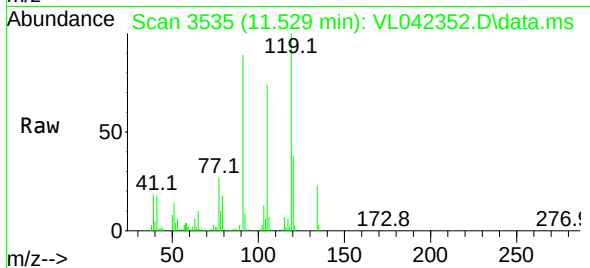
VSTDICC0.5

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

Manual Integrations

APPROVED

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



#66

Benzyl Chloride

Concen: 0.506 ppbv

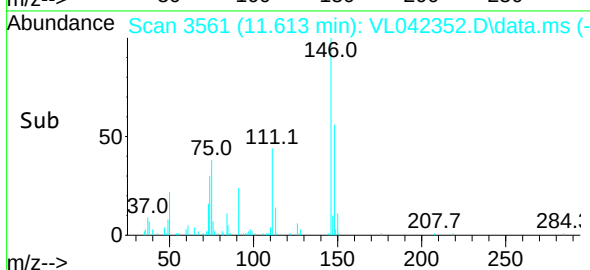
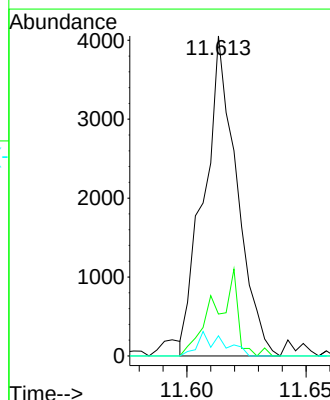
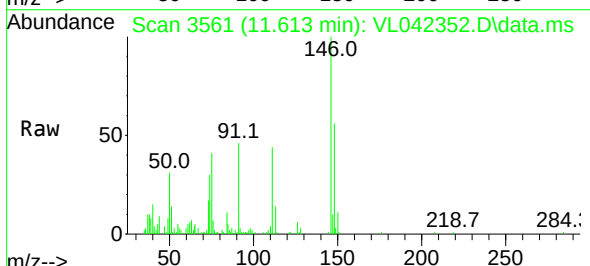
RT: 11.613 min Scan# 3561

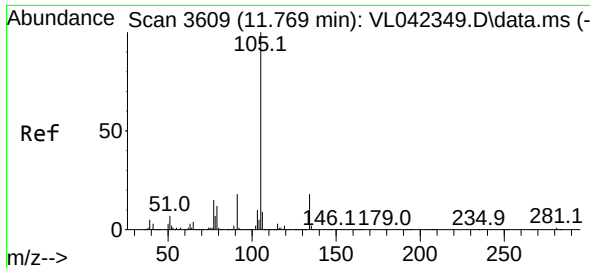
Delta R.T. -0.003 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

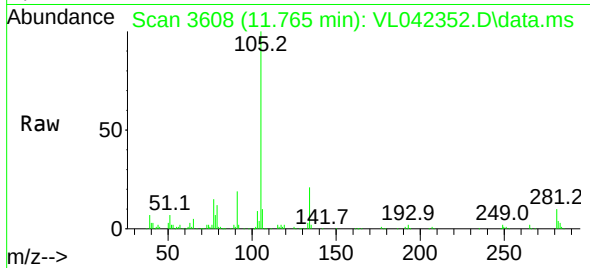
Tgt Ion:	91	Resp:	3878
Ion	Ratio	Lower	Upper
91	100		
126	19.8	11.8	17.6#
128	5.8	4.5	6.7





#67
sec-Butylbenzene
Concen: 0.537 ppbv
RT: 11.765 min Scan# 3608
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

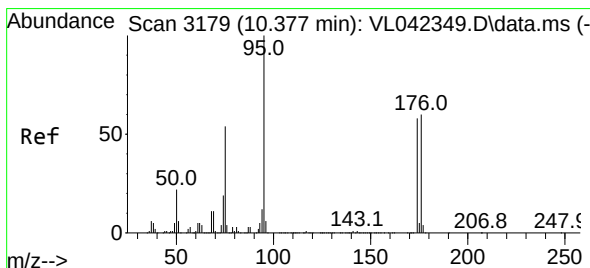
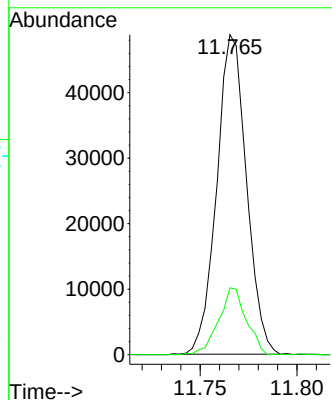
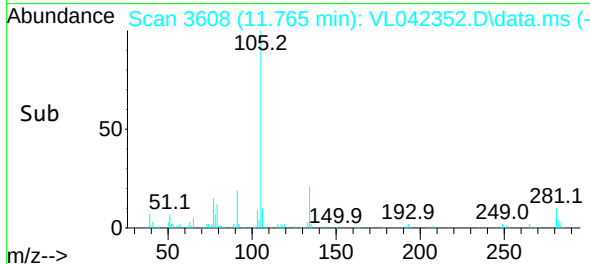
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



Tgt Ion:105 Resp: 52139
Ion Ratio Lower Upper
105 100
134 19.5 14.6 21.8

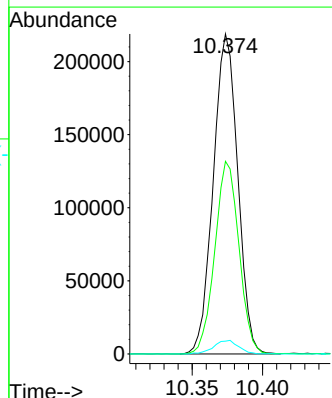
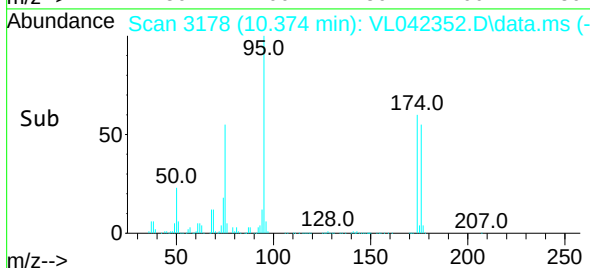
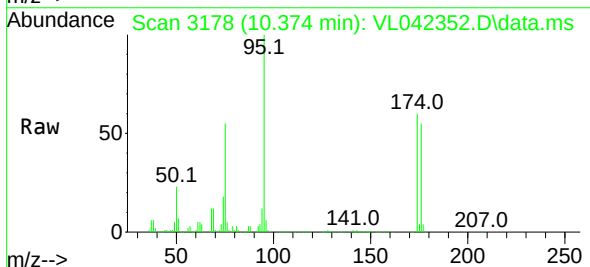
Manual Integrations
APPROVED

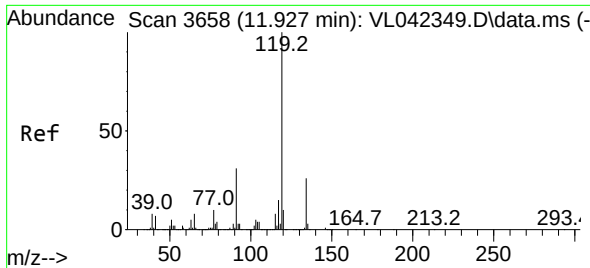
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

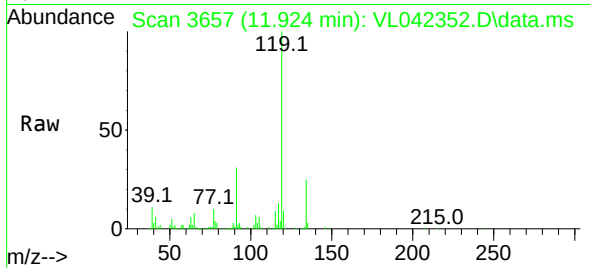
Tgt Ion: 95 Resp: 265161
Ion Ratio Lower Upper
95 100
174 59.4 48.5 72.7
175 4.3 3.7 5.5





#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

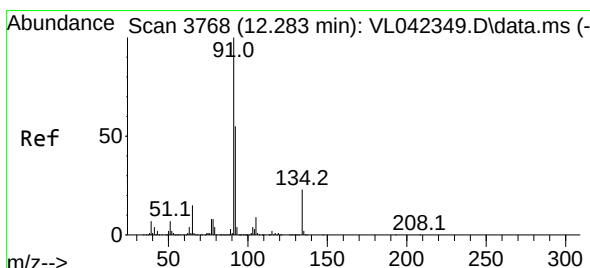
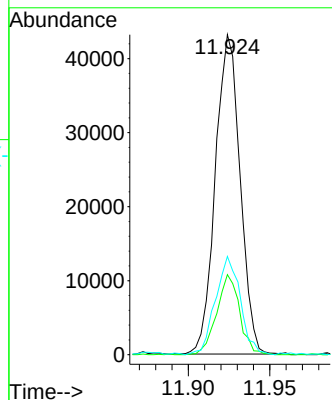
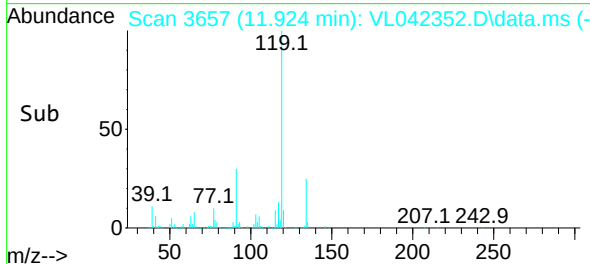
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5



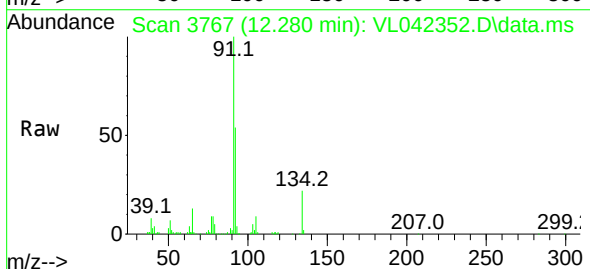
Tgt Ion:119 Resp: 45574
Ion Ratio Lower Upper
119 100
134 23.3 20.0 30.0
91 31.4 24.4 36.6

Manual Integrations
APPROVED

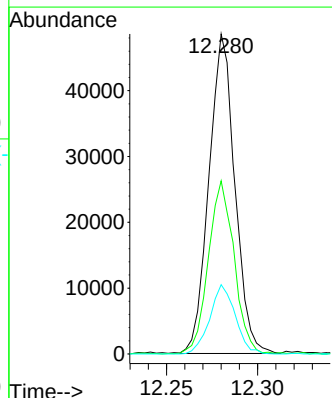
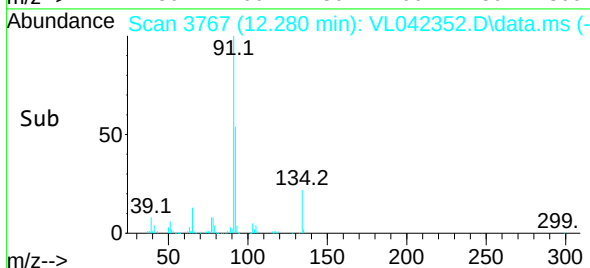
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

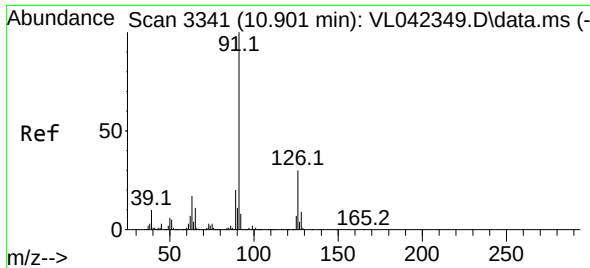


#70
n-Butylbenzene
Concen: 0.547 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19



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





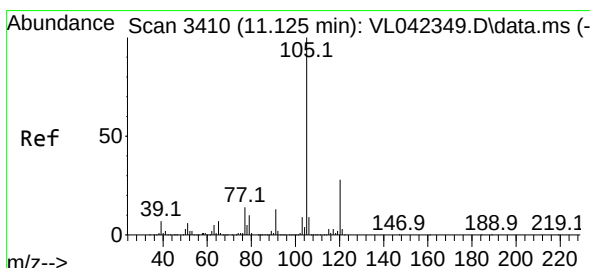
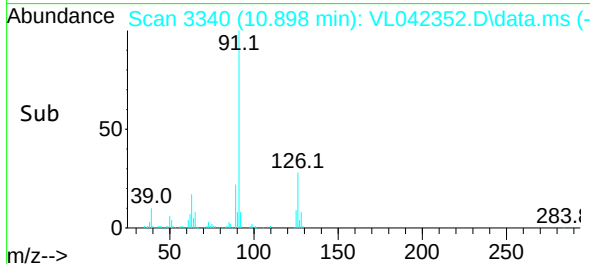
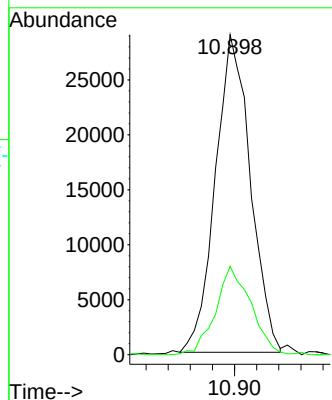
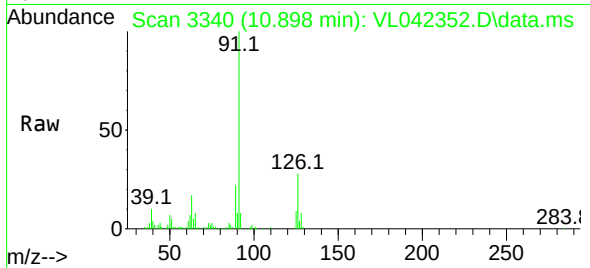
#71
2-Chlorotoluene
Concen: 0.533 ppbv
RT: 10.898 min Scan# 3170
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Tgt Ion: 91 Resp: 3170
Ion Ratio Lower Upper
91 100
126 28.3 11.4 45.4

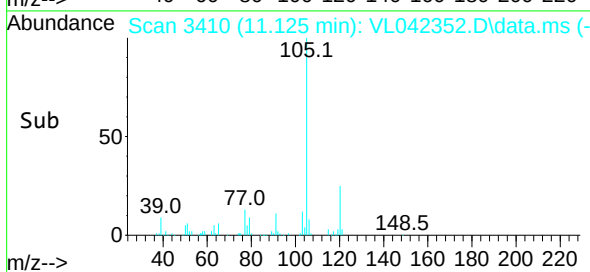
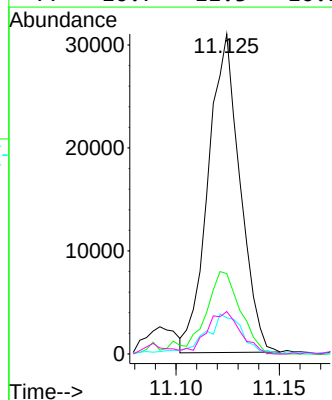
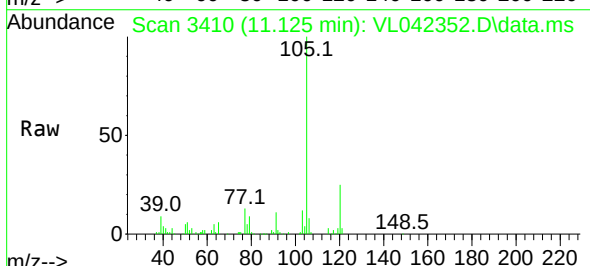
Manual Integrations
APPROVED

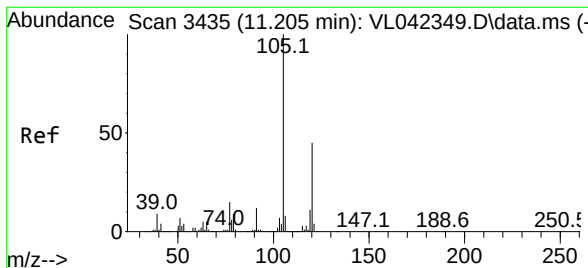
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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# 3435

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

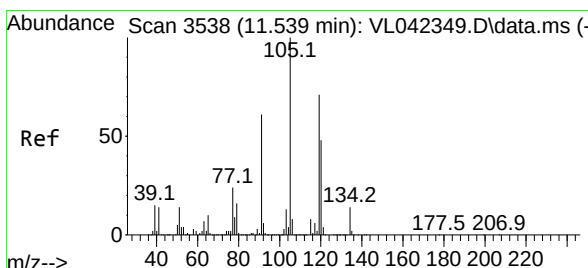
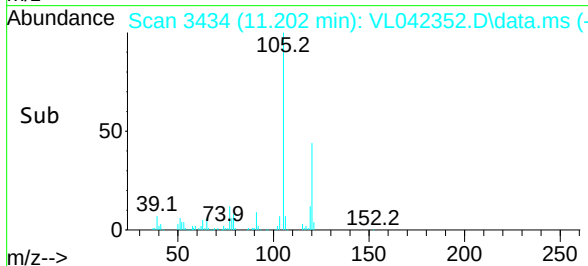
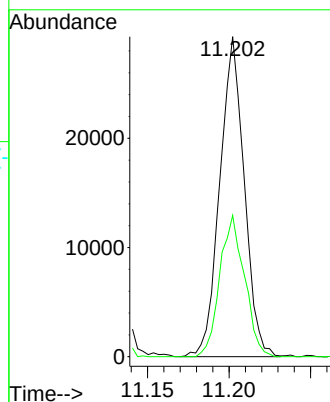
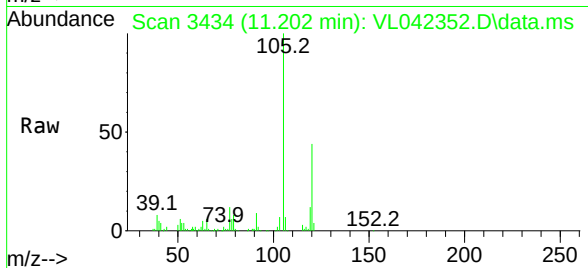
120 44.1 35.6 53.4

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

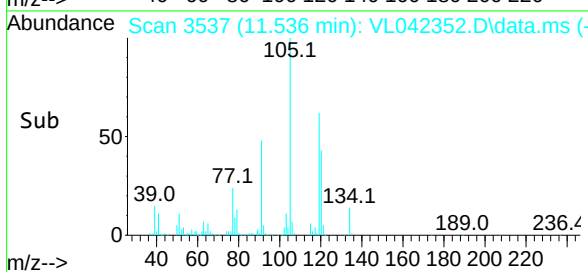
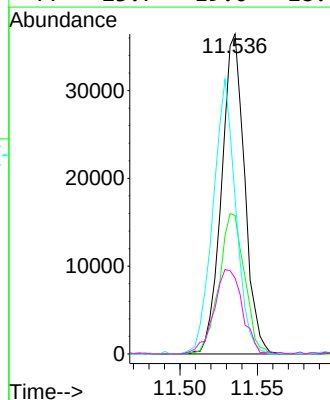
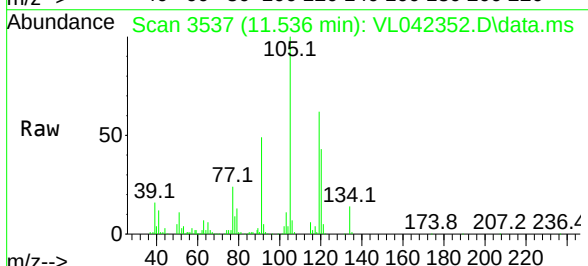
Ion Ratio Lower Upper

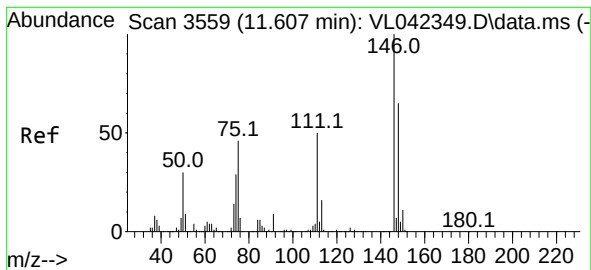
105 100

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 :

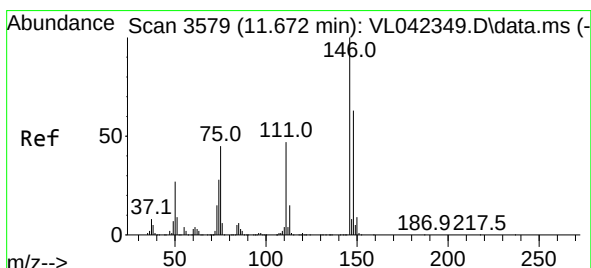
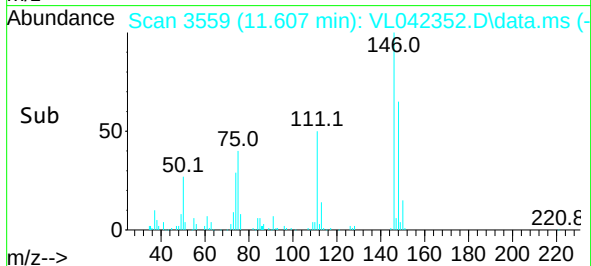
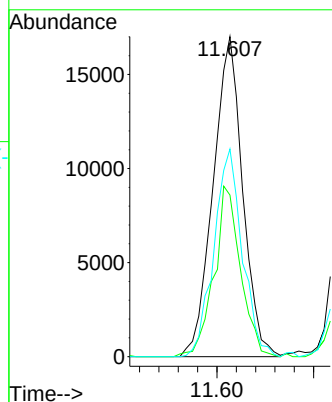
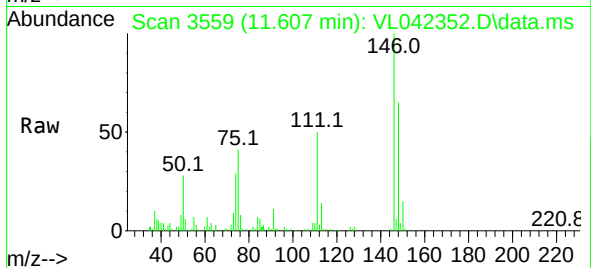
VSTDICC0.5

Tgt Ion:146	Resp:	1800
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

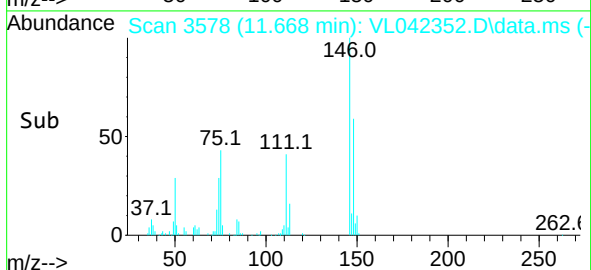
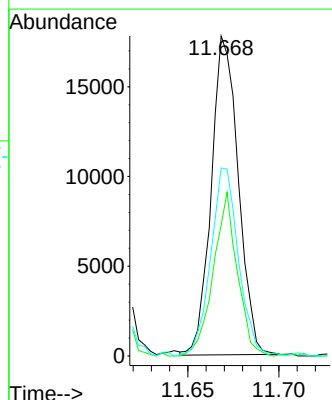
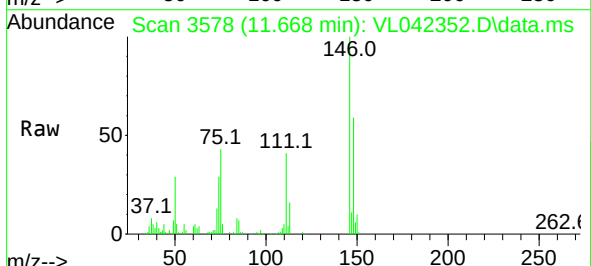
RT: 11.668 min Scan# 3578

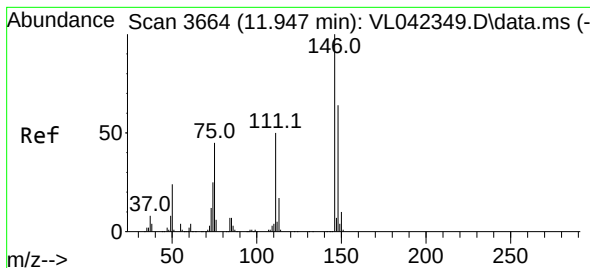
Delta R.T. -0.003 min

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

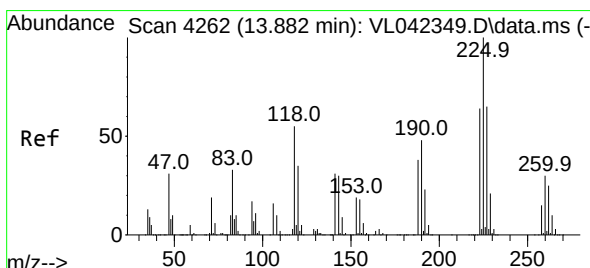
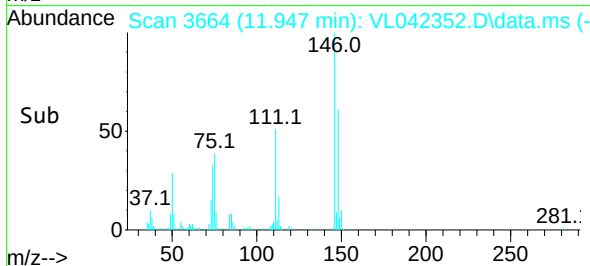
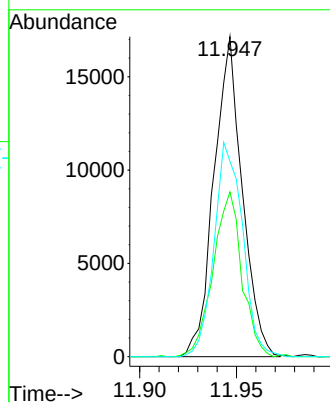
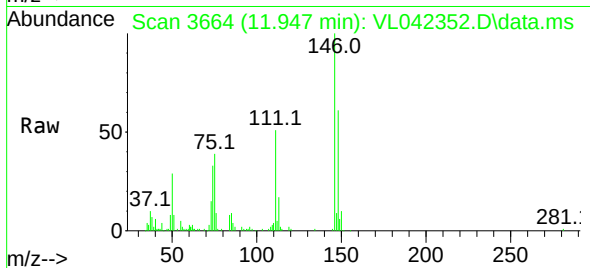
148 67.5 31.5 94.5

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

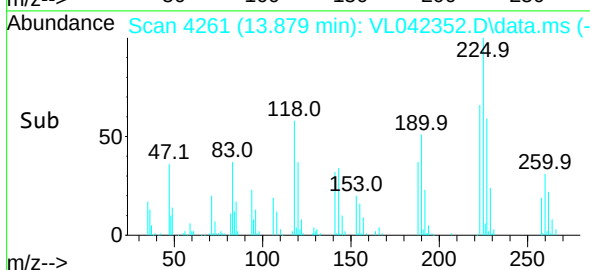
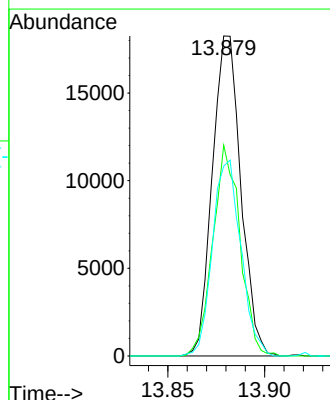
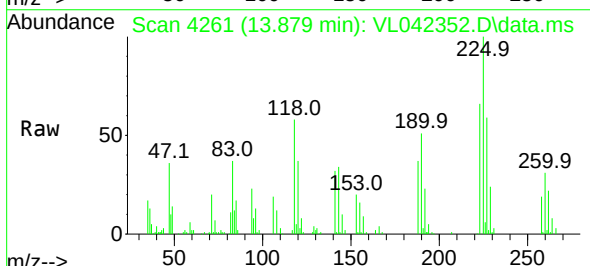
Tgt Ion:225 Resp: 18705

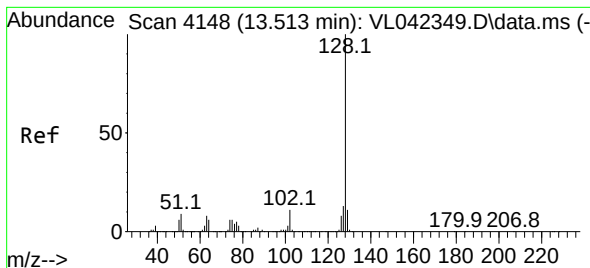
Ion Ratio Lower Upper

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 :

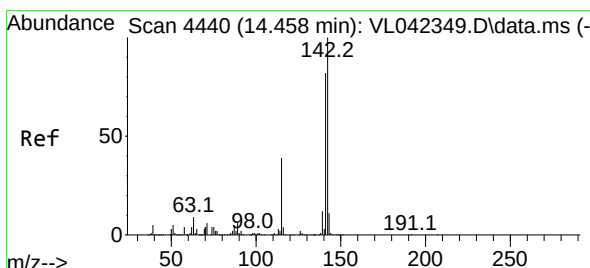
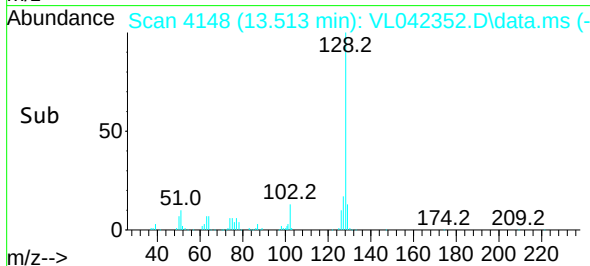
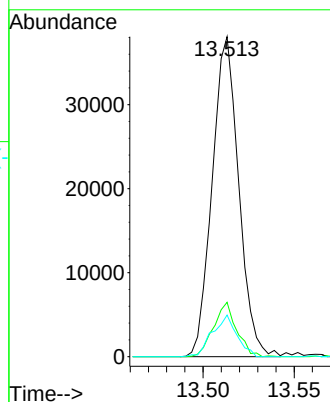
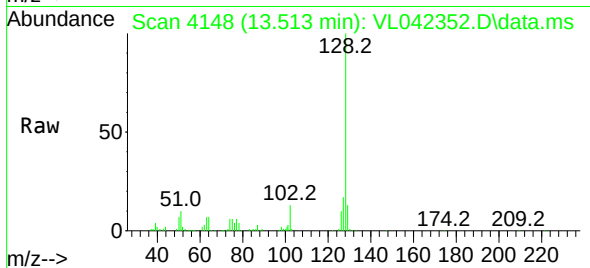
VSTDIC0.5

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

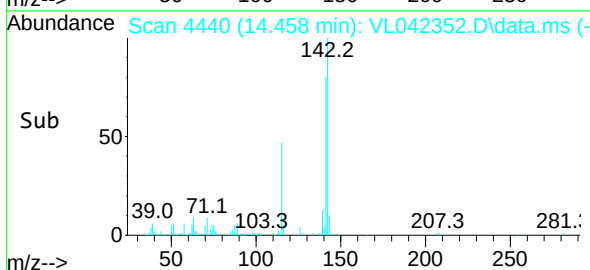
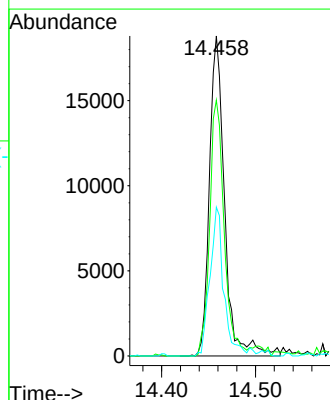
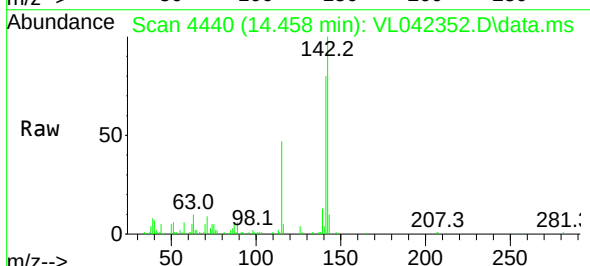
RT: 14.458 min Scan# 4440

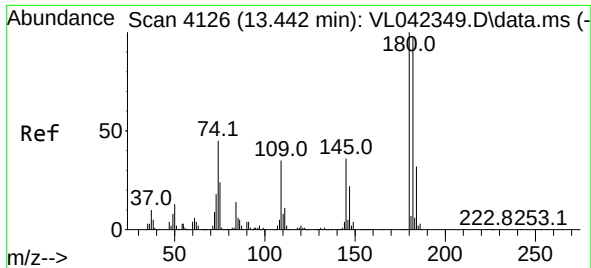
Delta R.T. -0.000 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

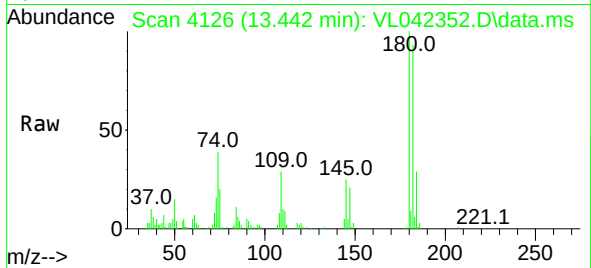
Tgt Ion:	142	Resp:	21076
Ion Ratio	Lower	Upper	
142	100		
141	79.2	66.8	100.2
115	44.1	33.4	50.2





#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

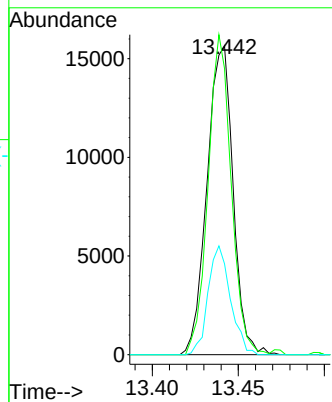
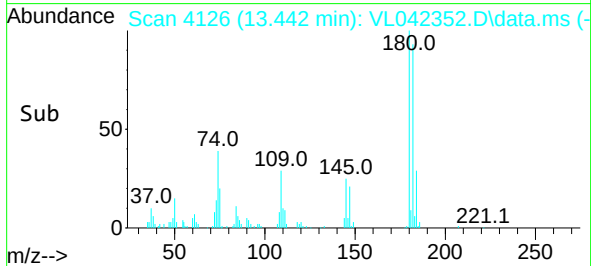
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5



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						
					Qvalue	
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

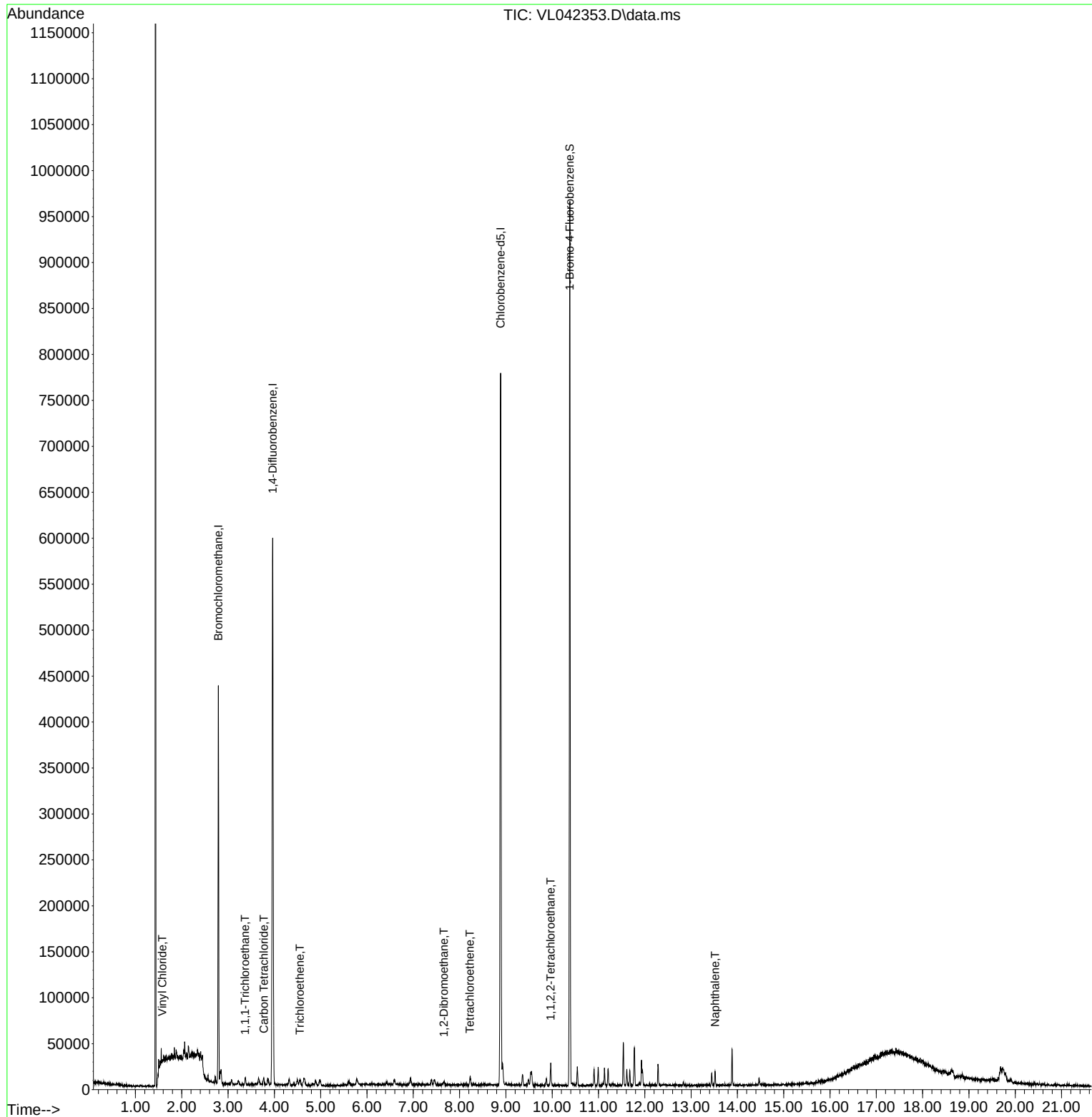
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042353.D
Acq On : 17 Apr 2025 11:50
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

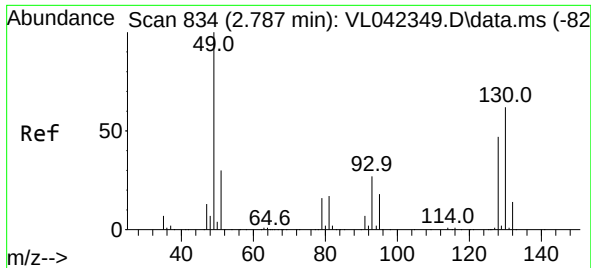
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

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

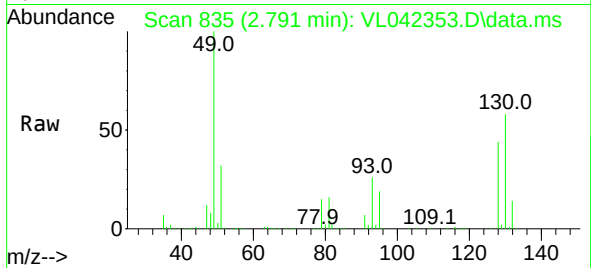
Quant Time: Apr 18 01:29:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration





#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

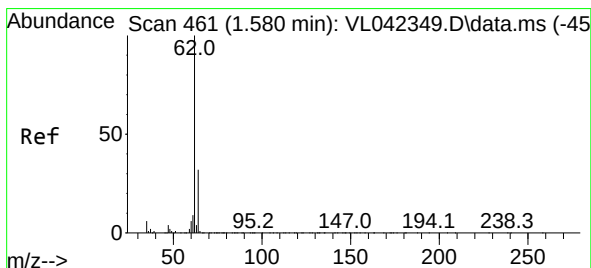
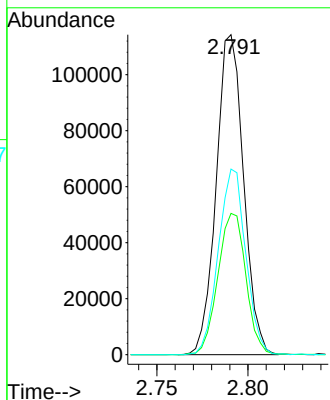
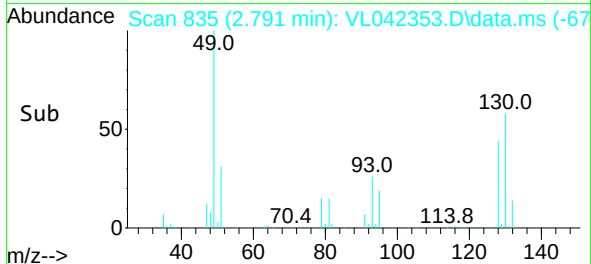
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1



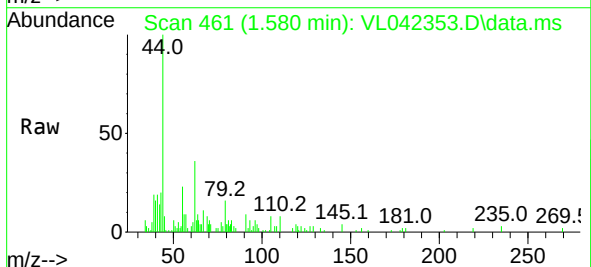
Tgt Ion: 49 Resp: 11946
Ion Ratio Lower Upper
49 100
128 45.3 22.8 68.4
130 58.3 29.3 88.0

Manual Integrations
APPROVED

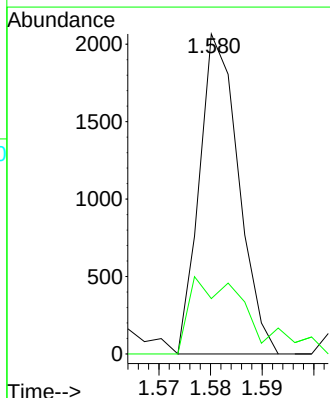
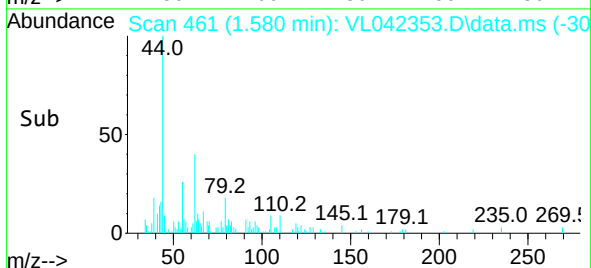
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

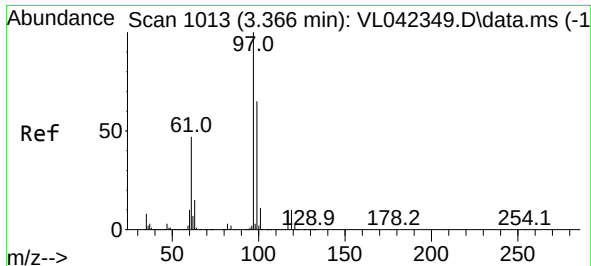


#5
Vinyl Chloride
Concen: 0.120 ppbv
RT: 1.580 min Scan# 461
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50



Tgt Ion: 62 Resp: 1088
Ion Ratio Lower Upper
62 100
64 17.3 25.4 38.0#





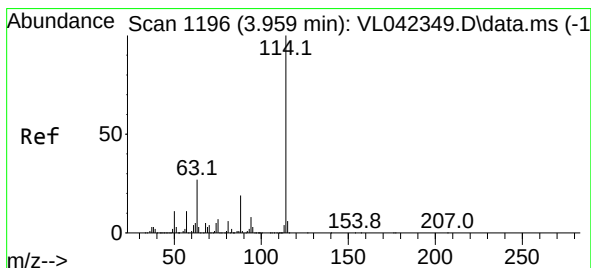
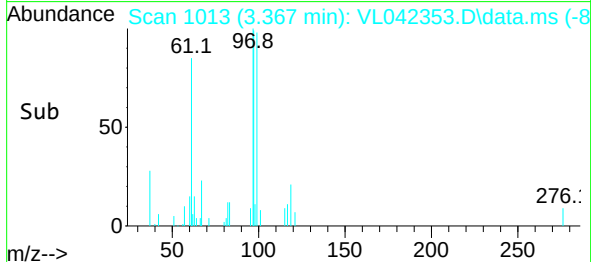
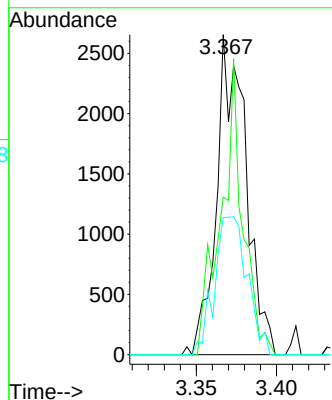
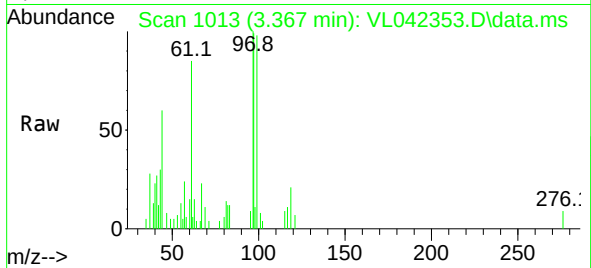
#32
1,1,1-Trichloroethane
Concen: 0.115 ppbv m
RT: 3.367 min Scan# 1013
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

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

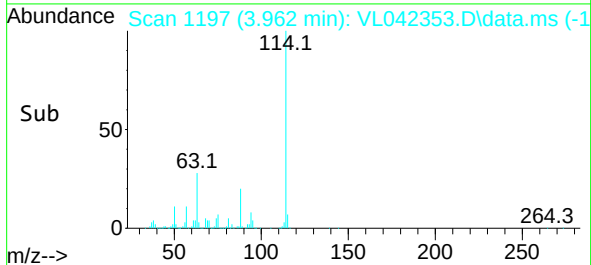
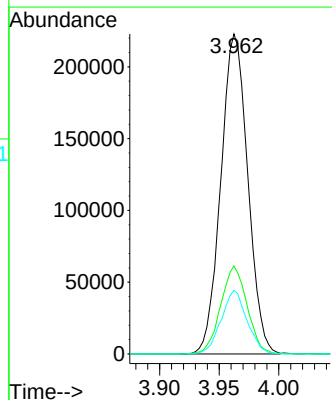
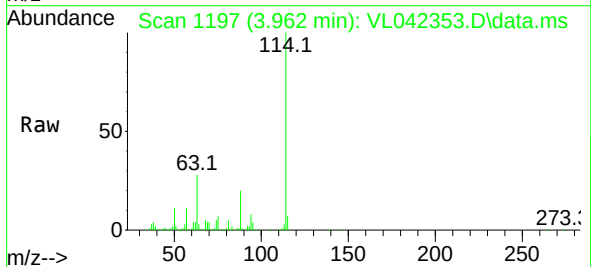
Manual Integrations
APPROVED

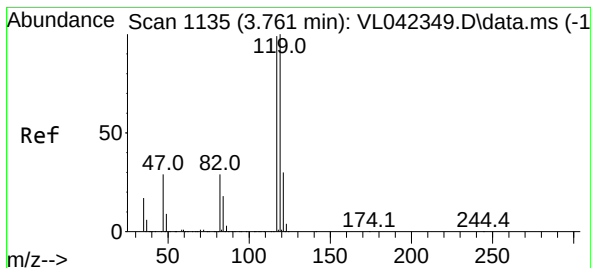
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 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

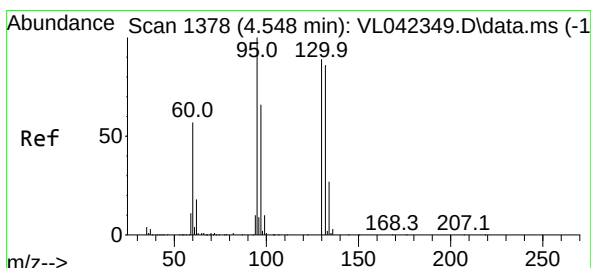
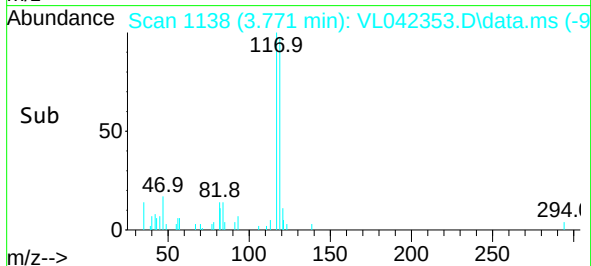
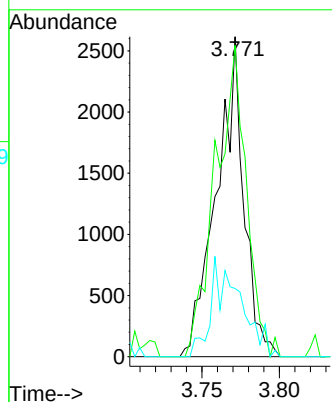
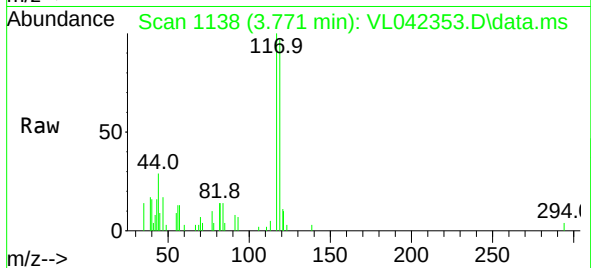
Tgt Ion:117	Resp:	3204
Ion Ratio	Lower	Upper
117	100	
119	97.3	80.5 120.7
121	21.3	24.2 36.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



#38

Trichloroethene

Concen: 0.107 ppbv m

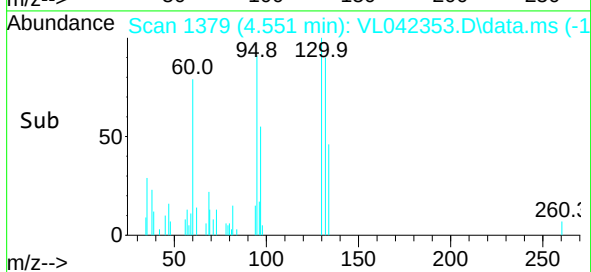
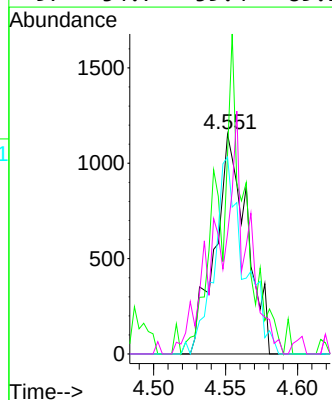
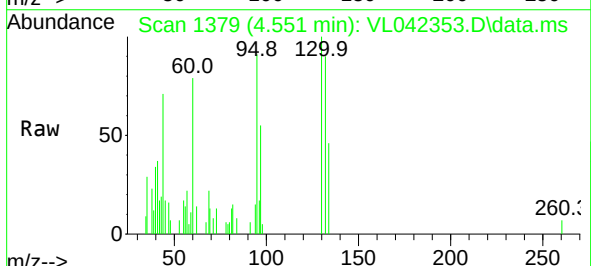
RT: 4.551 min Scan# 1379

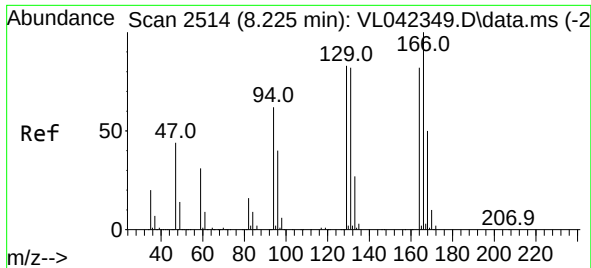
Delta R.T. 0.004 min

Lab File: VL042353.D

Acq: 17 Apr 2025 11:50

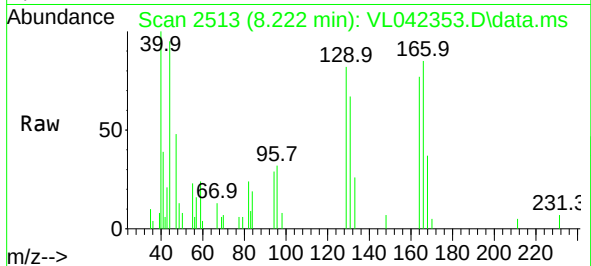
Tgt Ion:130	Resp:	1771
Ion Ratio	Lower	Upper
130	100	
95	90.9	89.8 134.6
132	89.6	77.7 116.5
97	54.7	59.4 89.2





#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

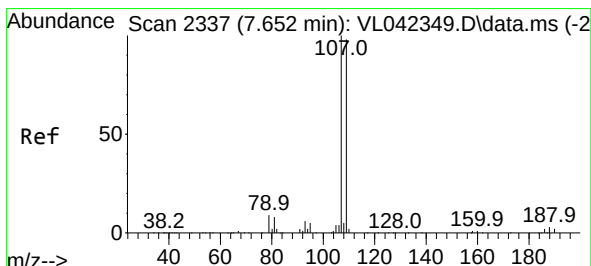
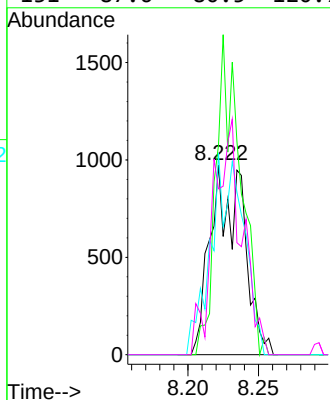
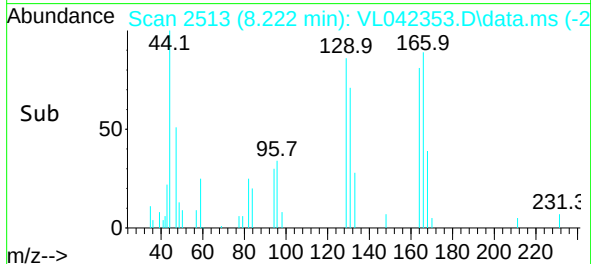
Instrument : MSVOA_L
ClientSampleId : VSTDIC0.1



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

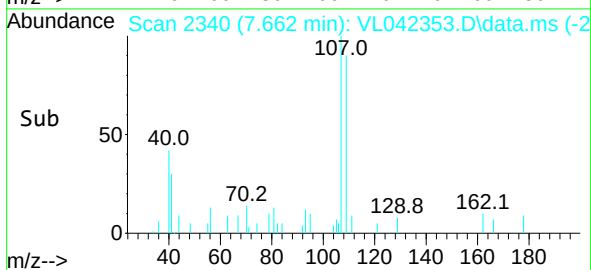
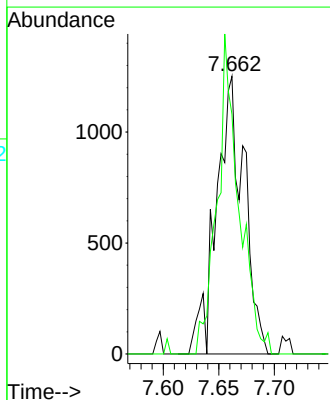
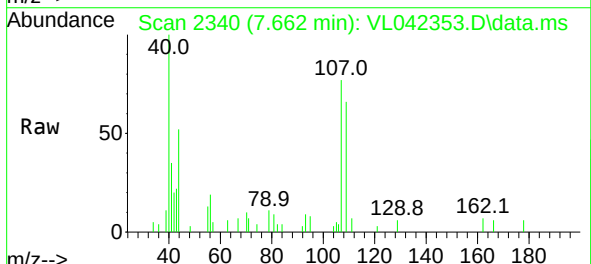
Manual Integrations
APPROVED

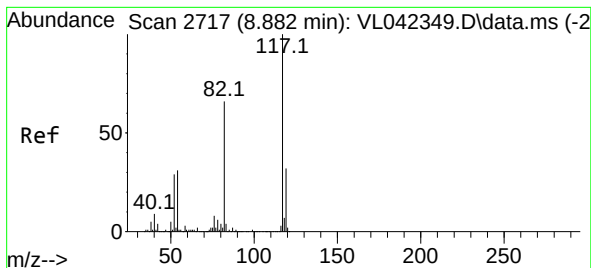
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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 :

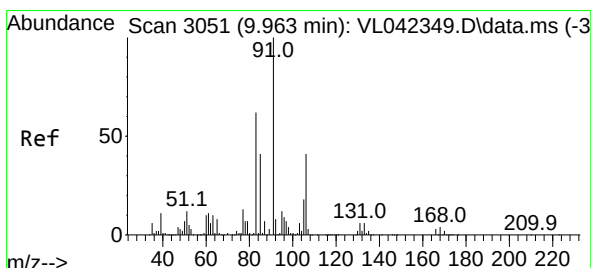
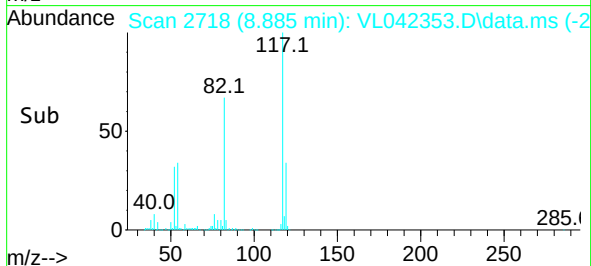
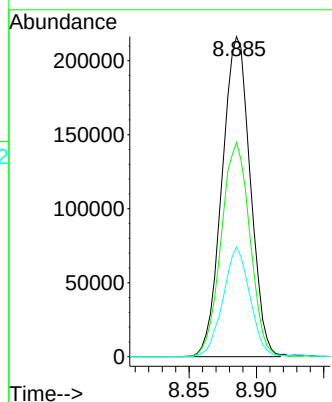
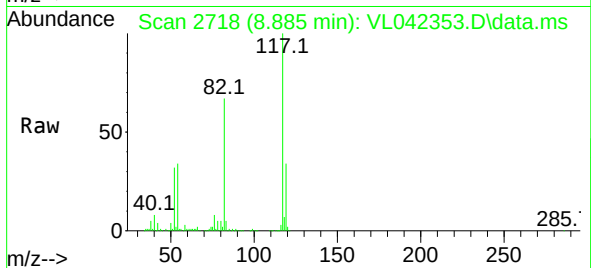
VSTDIC0.1

Tgt Ion:	117	Resp:	31500
Ion	Ratio	Lower	Upper
117	100		
82	68.1	57.8	86.6
119	33.0	25.2	37.8

Manual Integrations

APPROVED

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

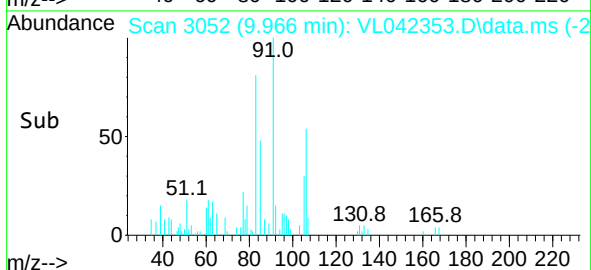
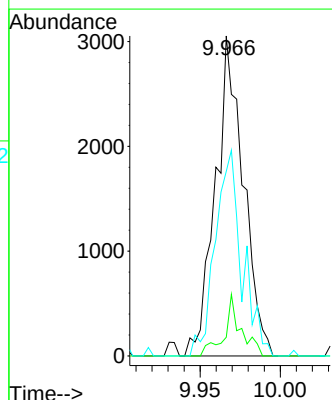
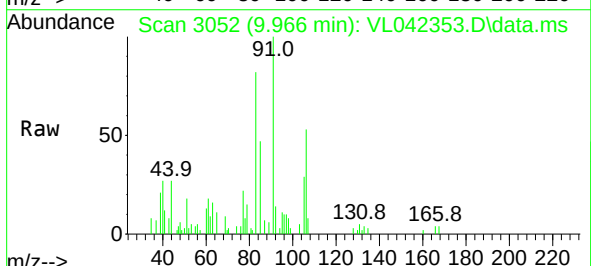
RT: 9.966 min Scan# 3052

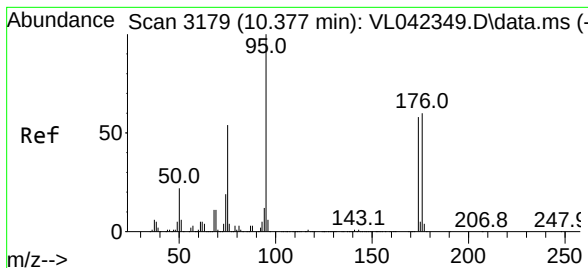
Delta R.T. 0.004 min

Lab File: VL042353.D

Acq: 17 Apr 2025 11:50

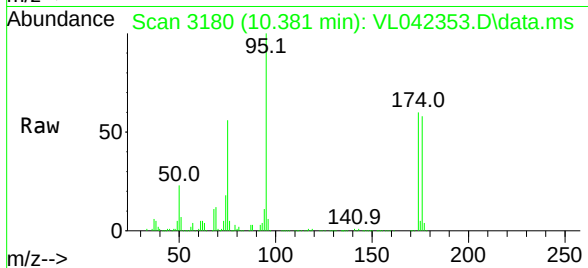
Tgt Ion:	83	Resp:	3706
Ion	Ratio	Lower	Upper
83	100		
131	11.2	4.5	13.7
85	61.7	32.4	97.0





#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

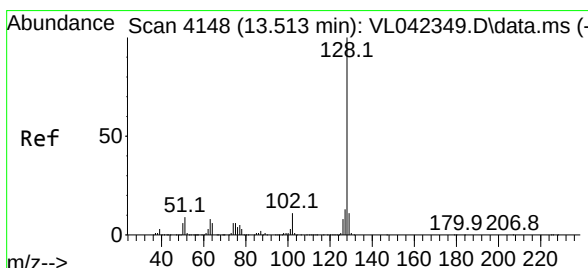
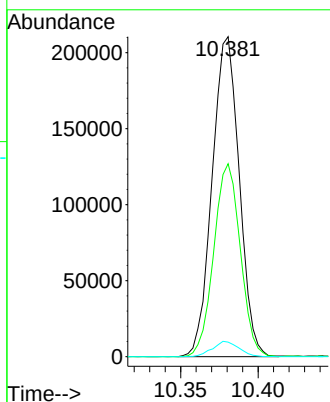
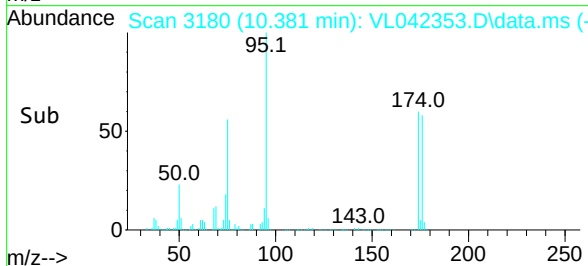
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1



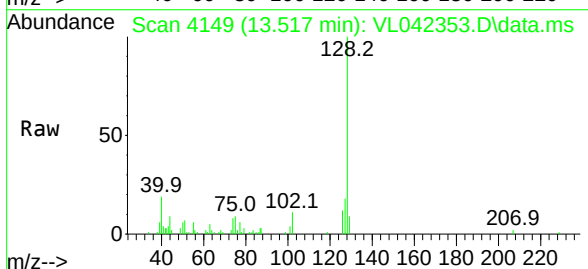
Tgt Ion: 95 Resp: 25641
Ion Ratio Lower Upper
95 100
174 59.3 48.5 72.7
175 4.7 3.7 5.5

Manual Integrations
APPROVED

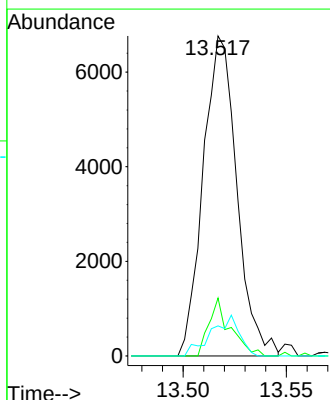
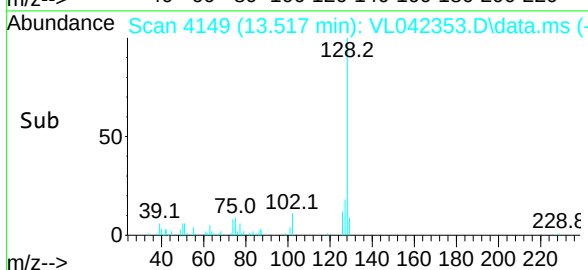
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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 T0-15 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)

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	
5) Vinyl Chloride	1.583	62	361	0.040	ppbv	# 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

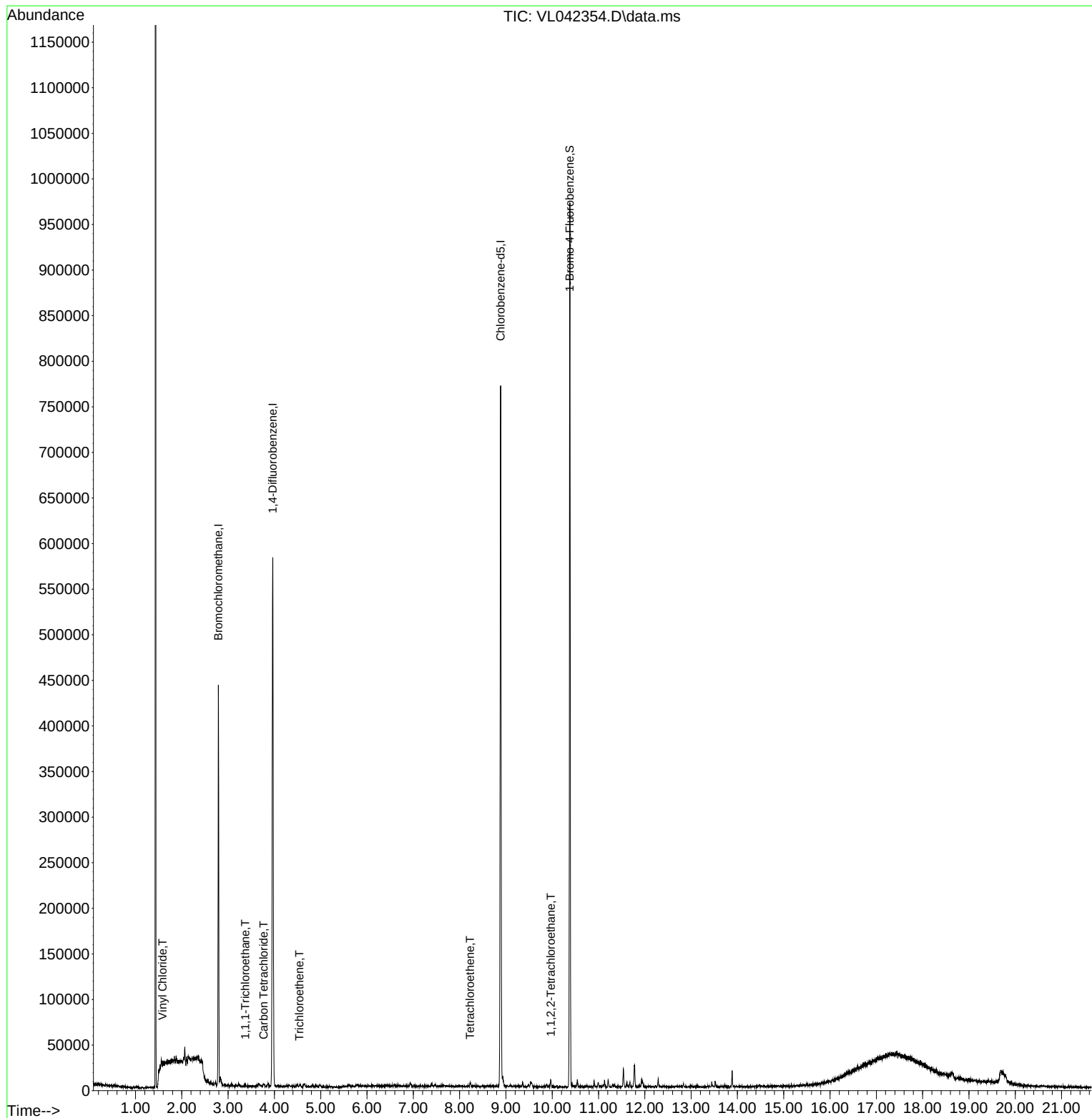
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042354.D
Acq On : 17 Apr 2025 12:22
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

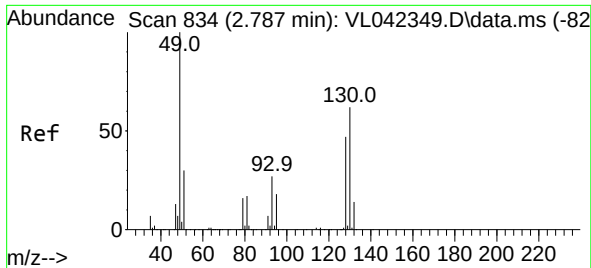
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

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
QLast Update : Fri Apr 18 01:24:29 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

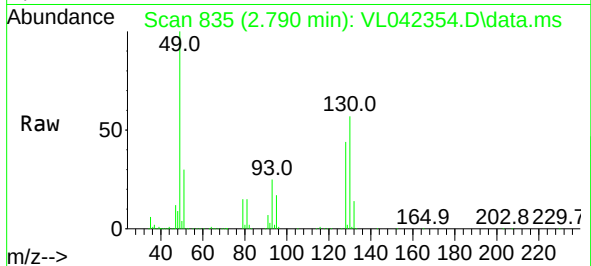
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025





#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

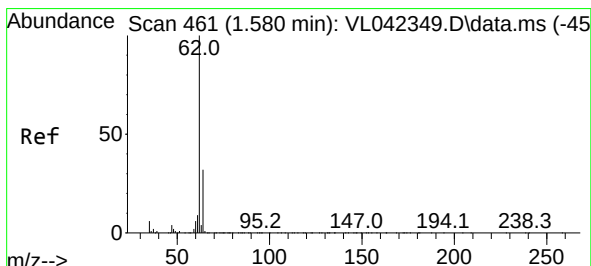
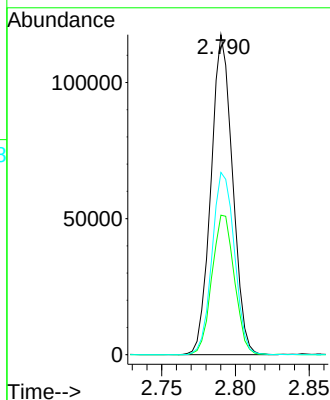
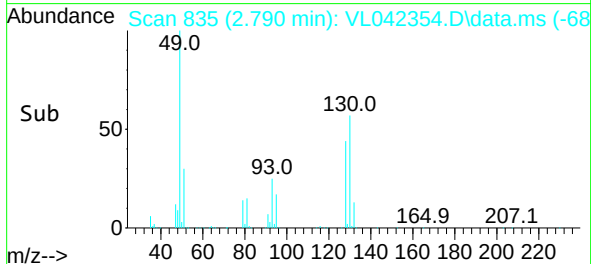
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03



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

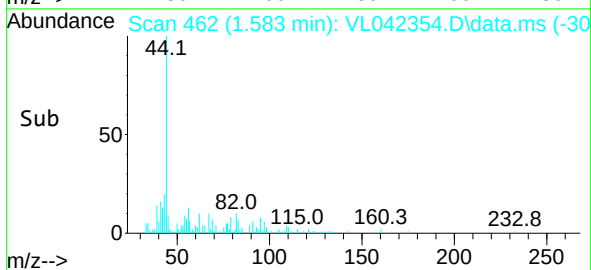
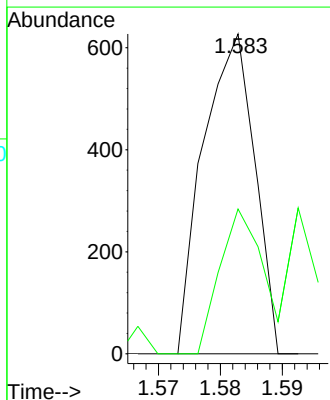
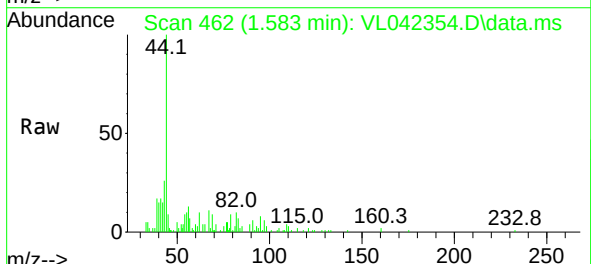
Manual Integrations
APPROVED

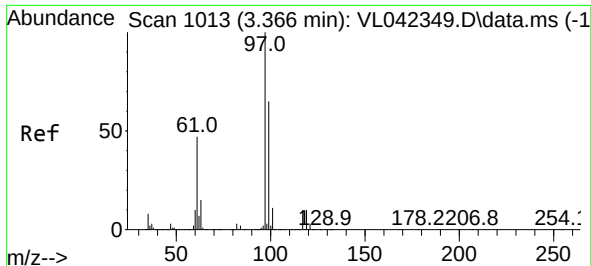
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

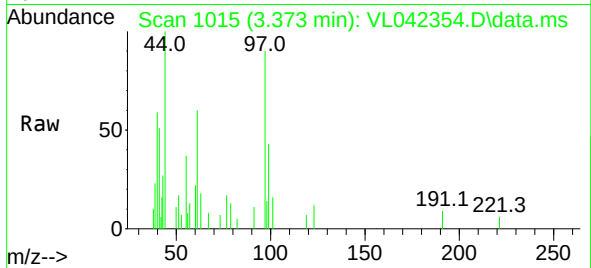
Tgt Ion: 62 Resp: 361
Ion Ratio Lower Upper
62 100
64 45.3 25.4 38.0#





#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

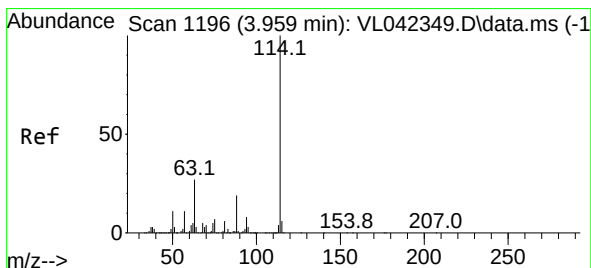
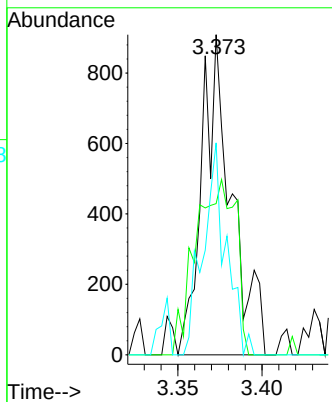
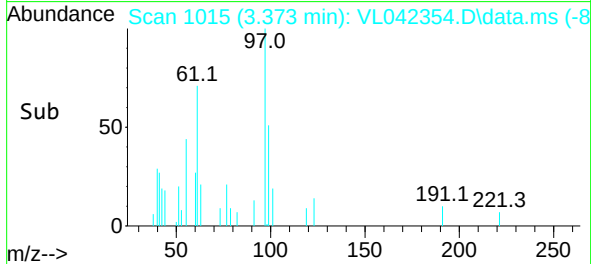
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03



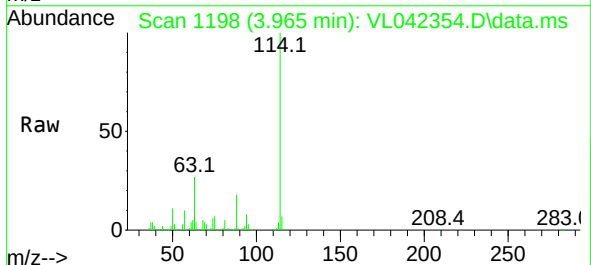
Tgt Ion: 97 Resp: 1120
Ion Ratio Lower Upper
97 100
99 74.4 51.0 76.4
61 56.9 38.8 58.2

Manual Integrations
APPROVED

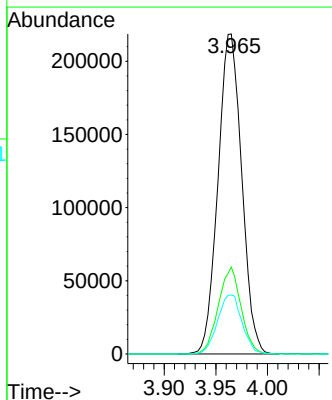
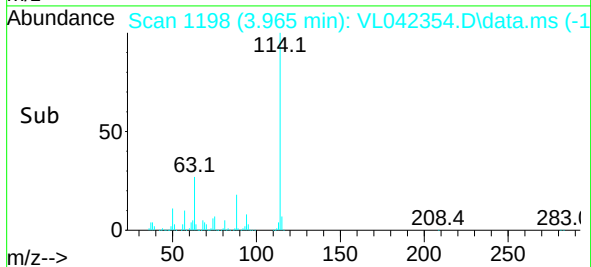
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

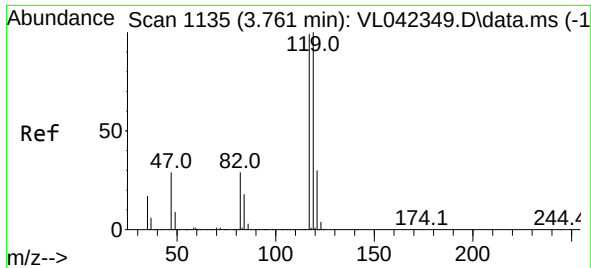


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1198
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22



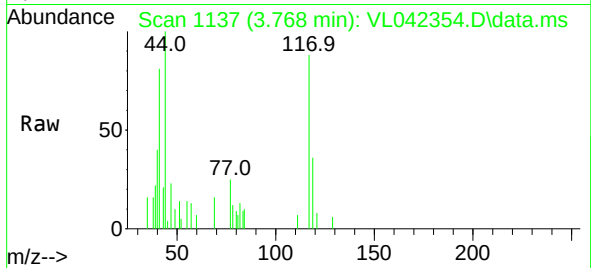
Tgt Ion:114 Resp: 349264
Ion Ratio Lower Upper
114 100
63 26.0 21.8 32.6
88 19.0 15.5 23.3





#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

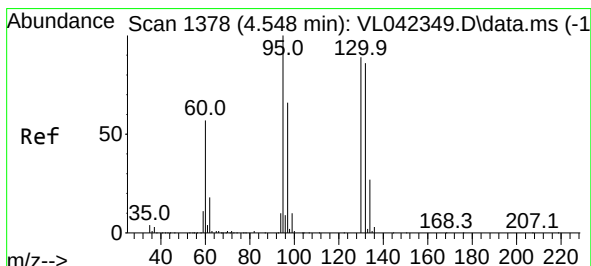
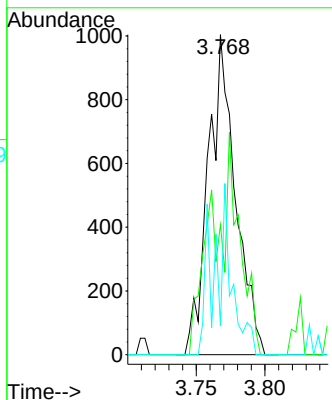
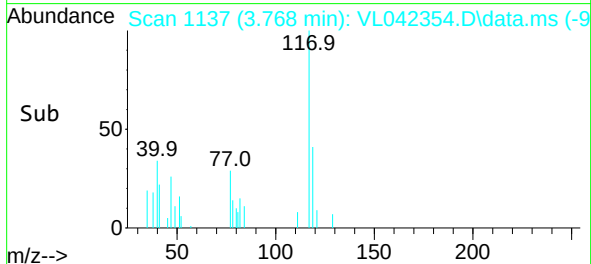
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03



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

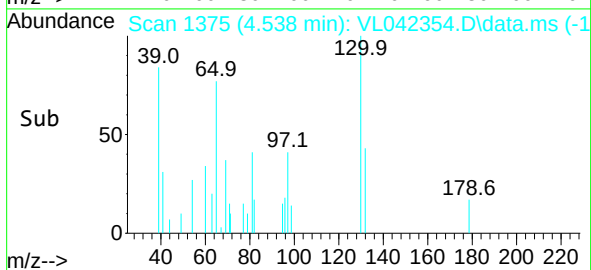
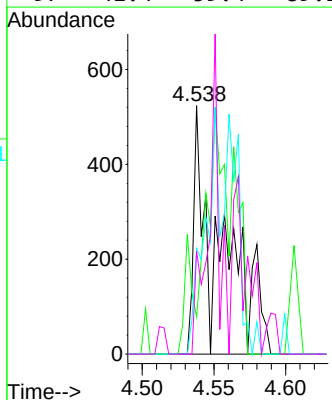
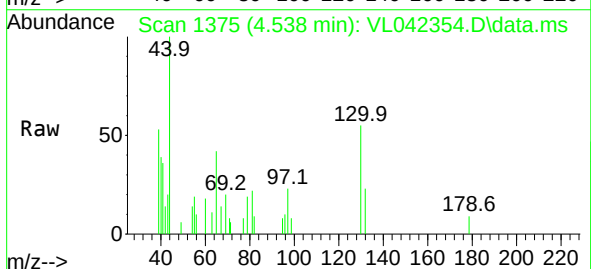
Manual Integrations
APPROVED

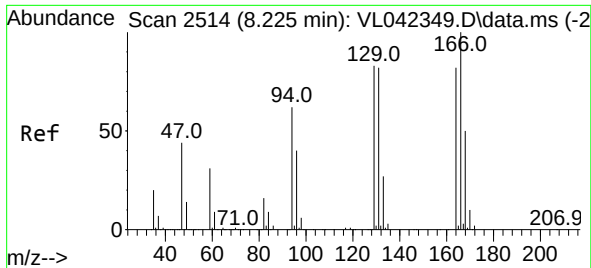
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

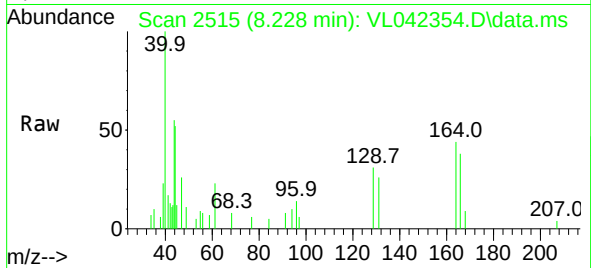
Tgt Ion:130 Resp: 674
Ion Ratio Lower Upper
130 100
95 15.1 89.8 134.6#
132 42.6 77.7 116.5#
97 41.4 59.4 89.2#





#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

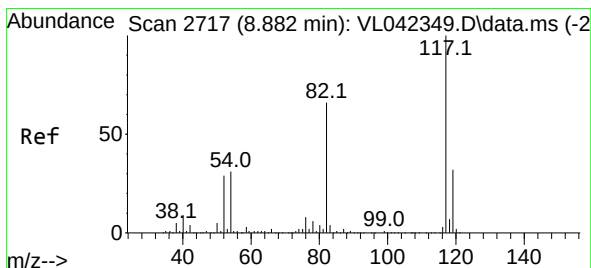
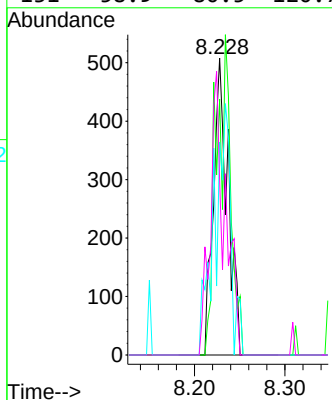
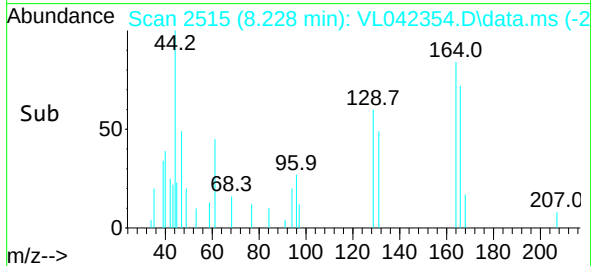
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03



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

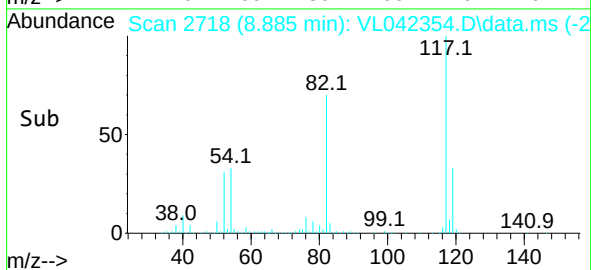
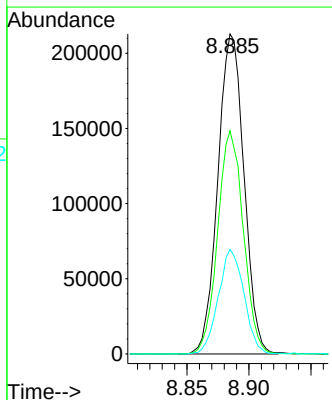
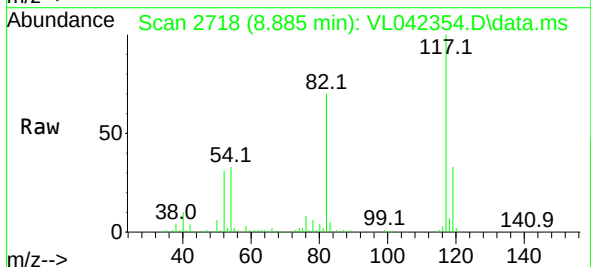
Manual Integrations
APPROVED

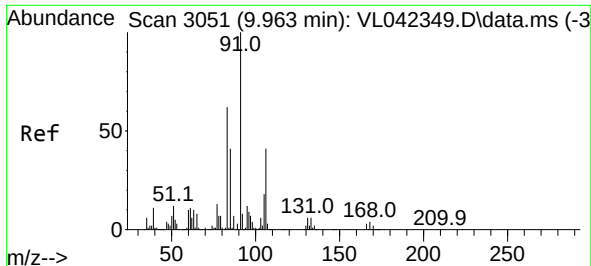
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

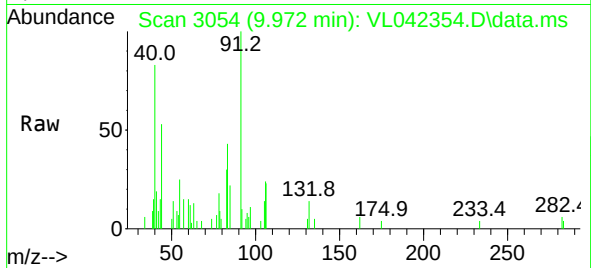
Tgt Ion:117 Resp: 312999
Ion Ratio Lower Upper
117 100
82 68.5 57.8 86.6
119 32.2 25.2 37.8





#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

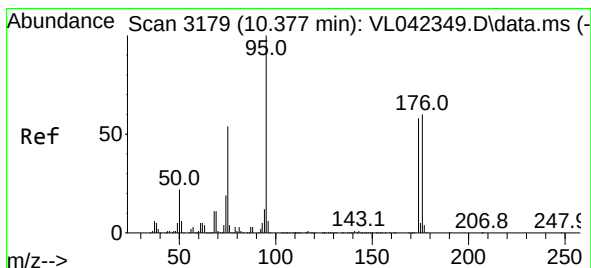
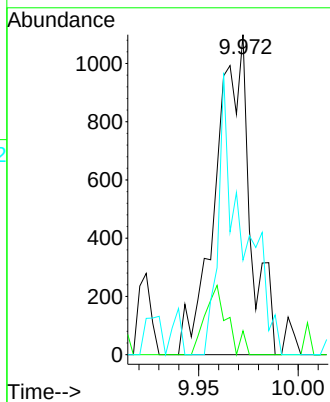
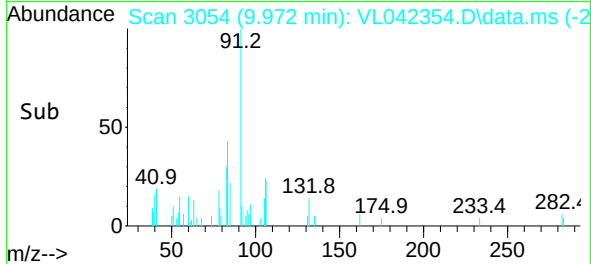
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03



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

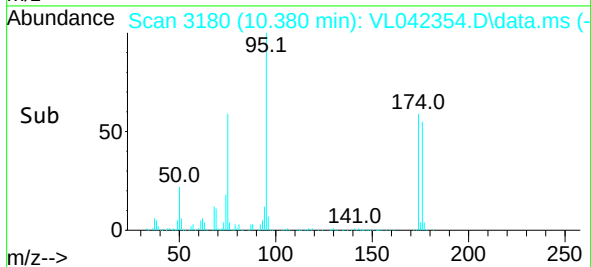
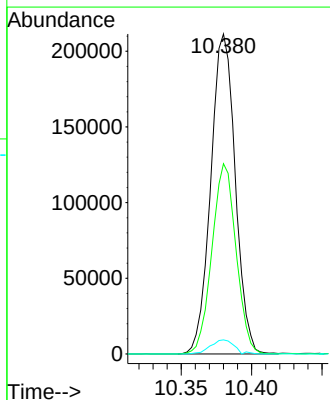
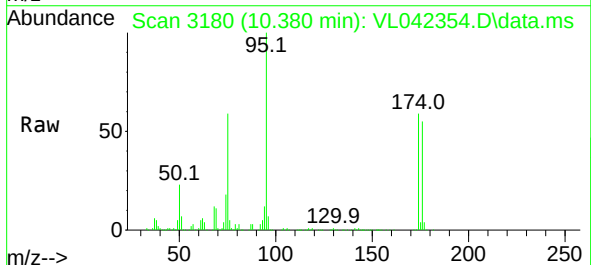
Manual Integrations
APPROVED

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_LFri 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

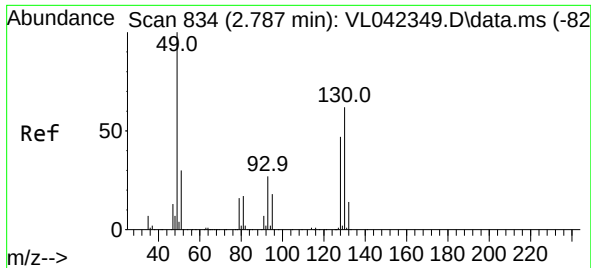
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

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	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



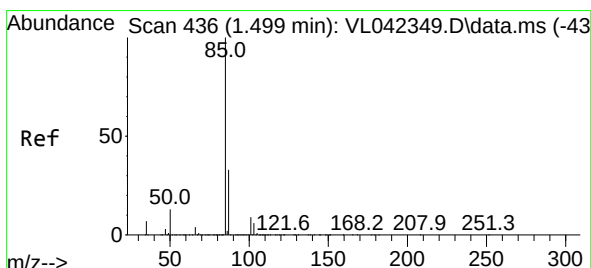
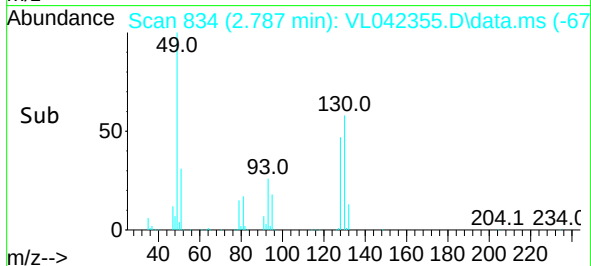
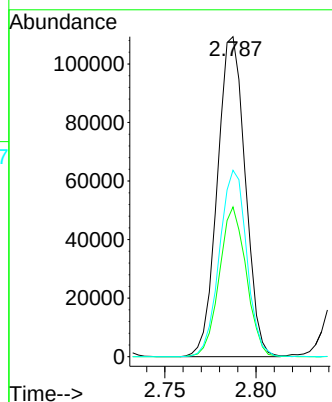
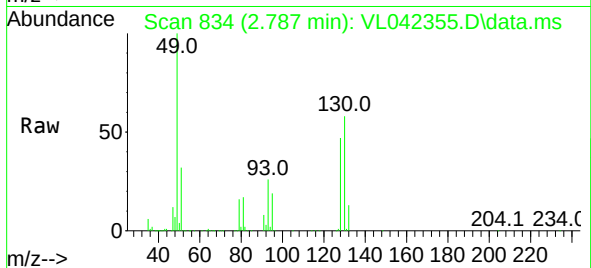
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 834
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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

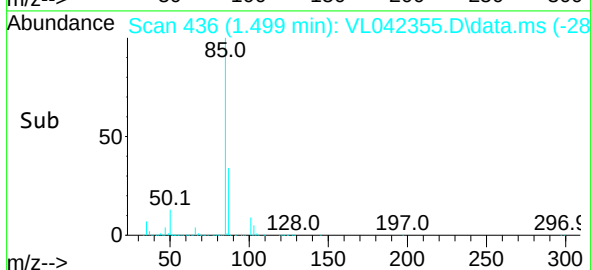
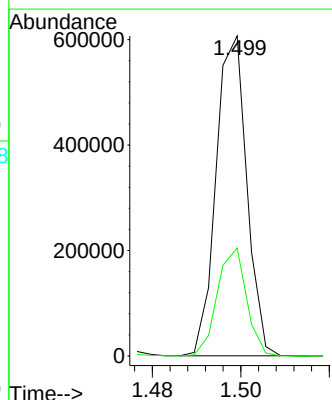
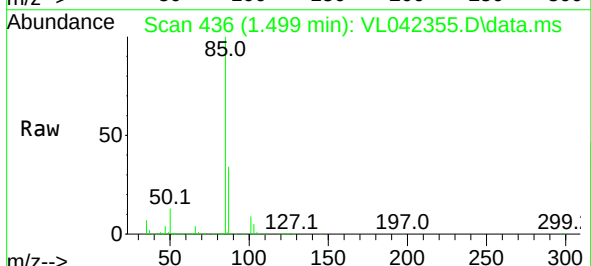
Manual Integrations
APPROVED

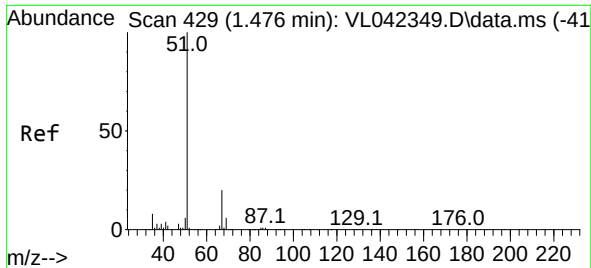
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

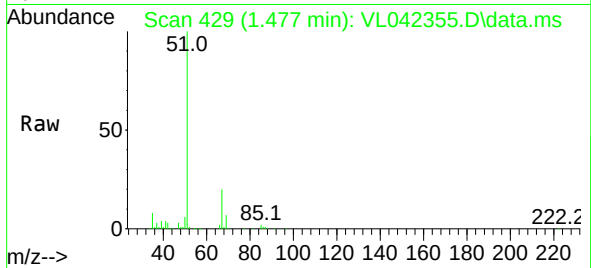
Tgt Ion: 85 Resp: 292784
Ion Ratio Lower Upper
85 100
87 33.8 26.6 39.8





#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

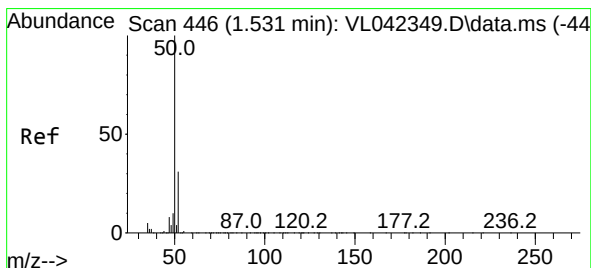
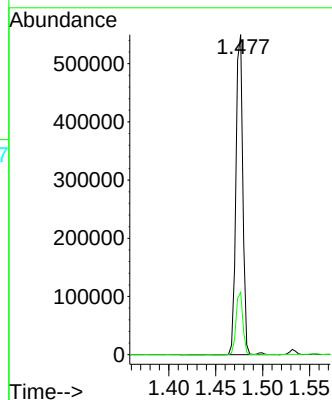
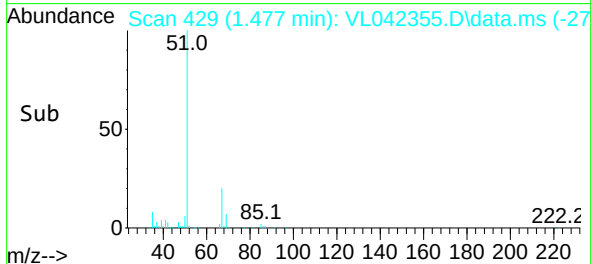
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



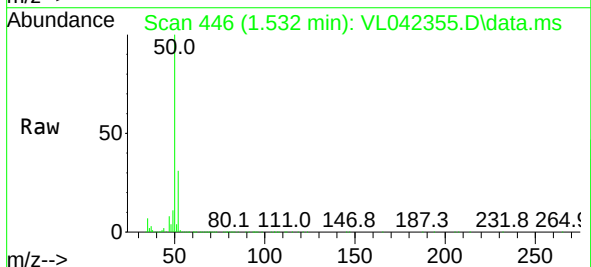
Tgt Ion: 51 Resp: 28004
Ion Ratio Lower Upper
51 100
67 19.5 16.2 24.4

Manual Integrations
APPROVED

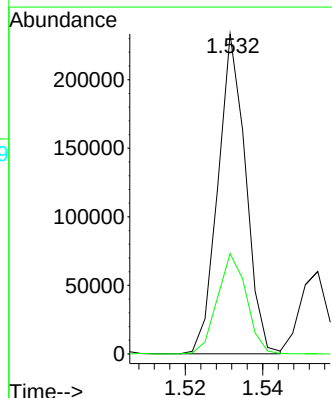
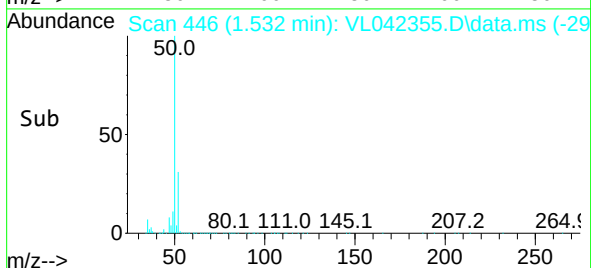
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

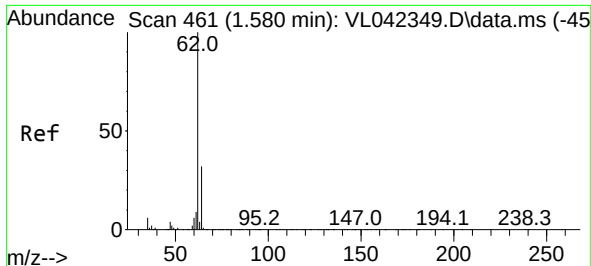


#4
Chloromethane
Concen: 14.266 ppbv
RT: 1.532 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54



Tgt Ion: 50 Resp: 115775
Ion Ratio Lower Upper
50 100
52 31.3 24.7 37.1





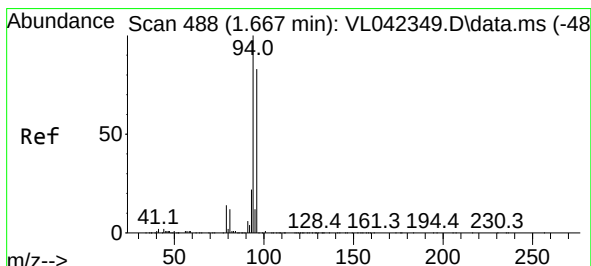
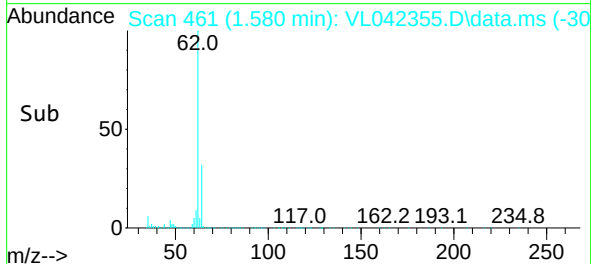
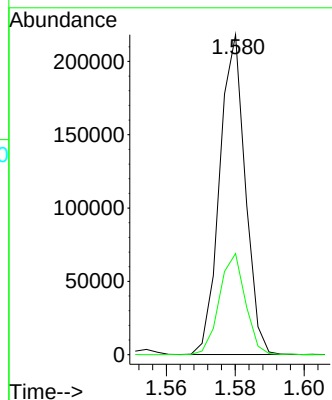
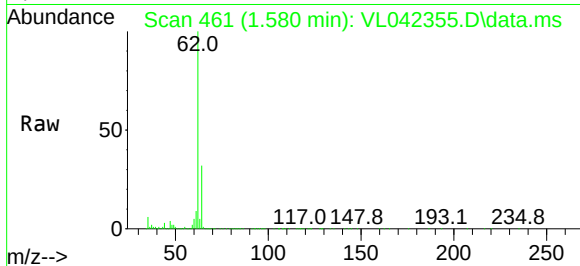
#5
 Vinyl Chloride
 Concen: 12.752 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. 0.000 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion: 62 Resp: 112650
 Ion Ratio Lower Upper
 62 100
 64 31.6 25.4 38.0

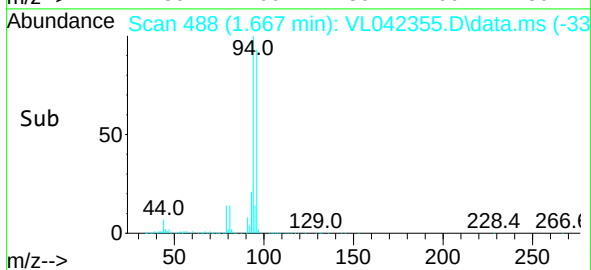
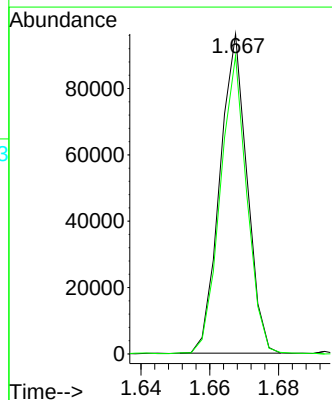
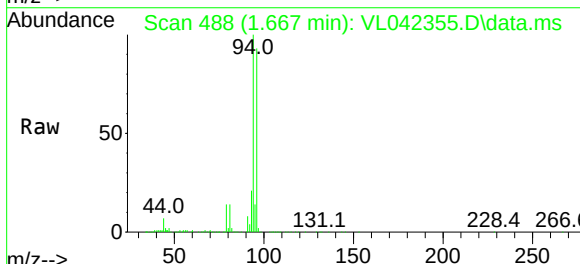
Manual Integrations
 APPROVED

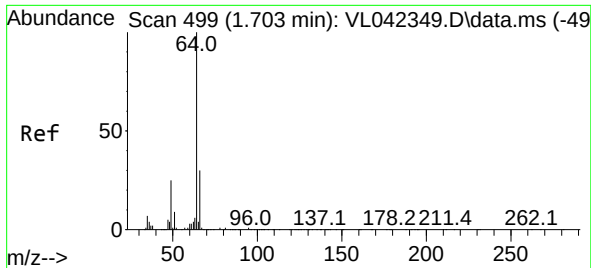
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#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

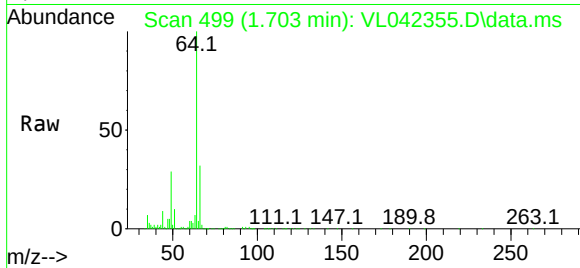
Tgt Ion: 94 Resp: 52805
 Ion Ratio Lower Upper
 94 100
 96 93.1 66.2 99.2





#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

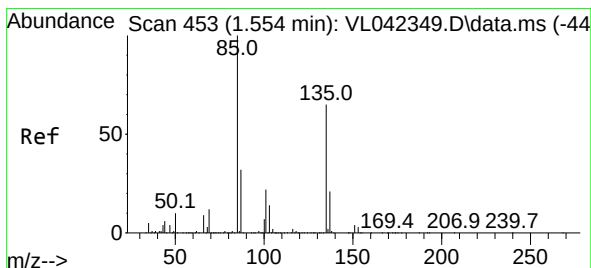
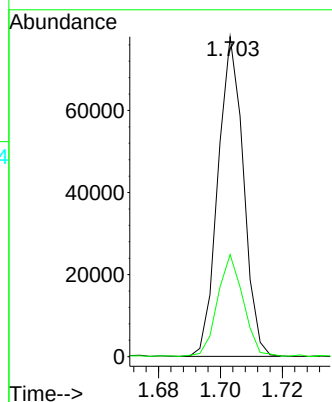
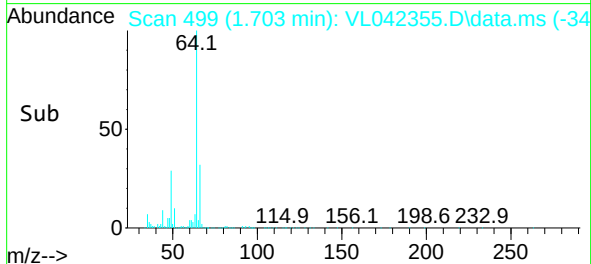
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



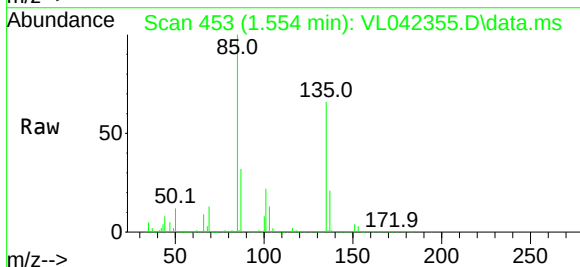
Tgt Ion: 64 Resp: 4434
Ion Ratio Lower Upper
64 100
66 31.9 24.6 37.0

Manual Integrations
APPROVED

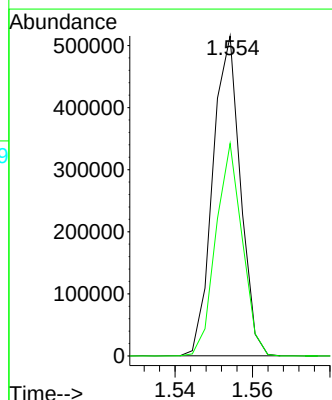
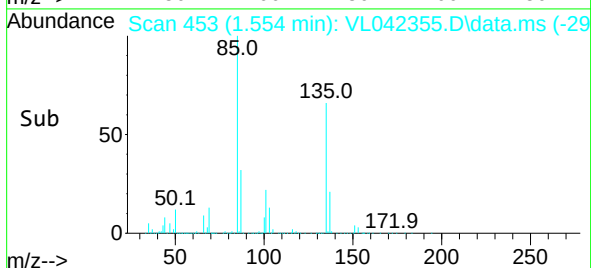
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

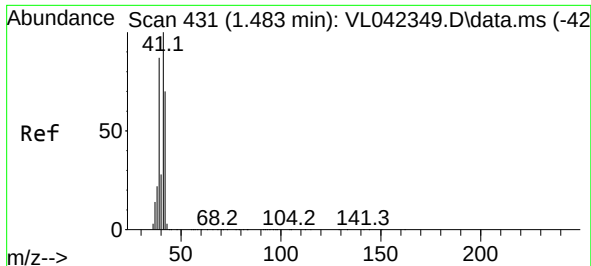


#8
Dichlorotetrafluoroethane
Concen: 14.484 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54



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

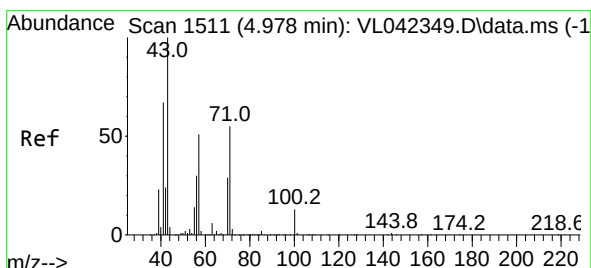
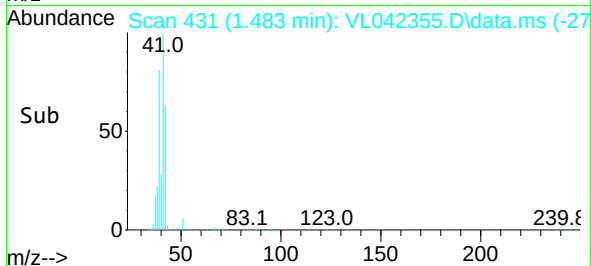
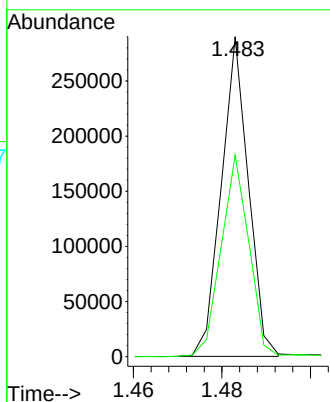
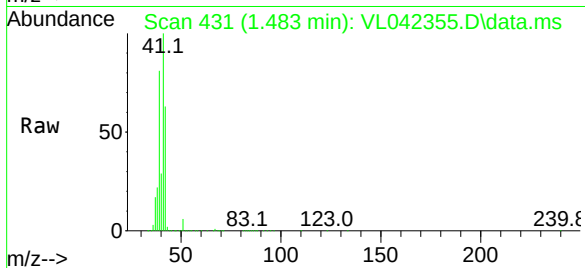
42 66.0 56.2 84.4

Manual Integrations

APPROVED

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

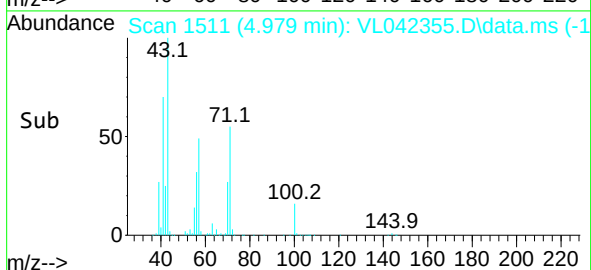
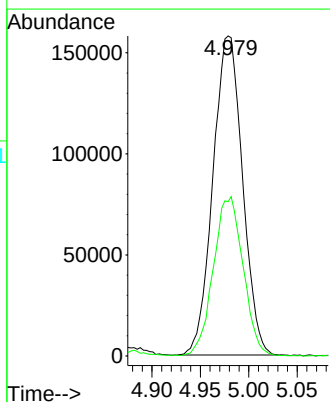
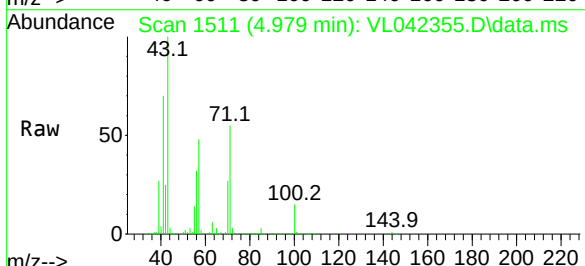
Acq: 17 Apr 2025 12:54

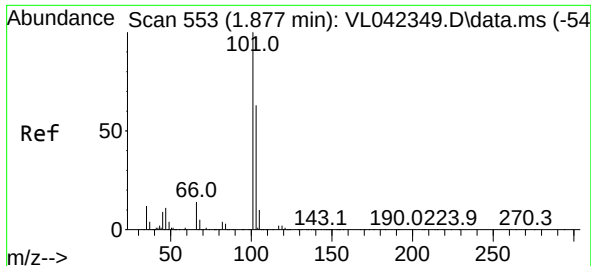
Tgt Ion: 43 Resp: 336134

Ion Ratio Lower Upper

43 100

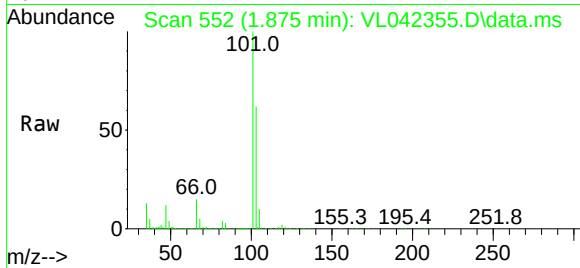
57 50.0 39.9 59.9





#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

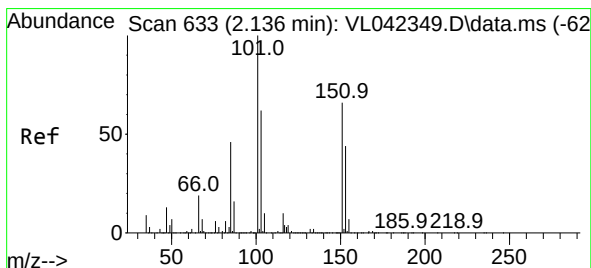
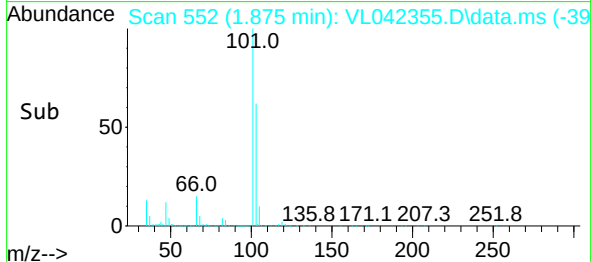
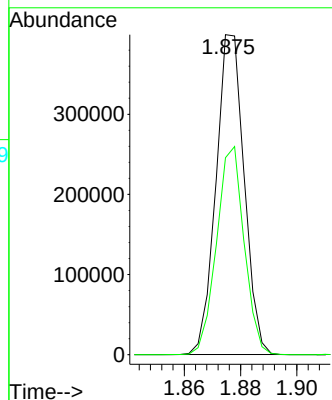
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion:101 Resp: 278059
Ion Ratio Lower Upper
101 100
103 61.6 50.1 75.1

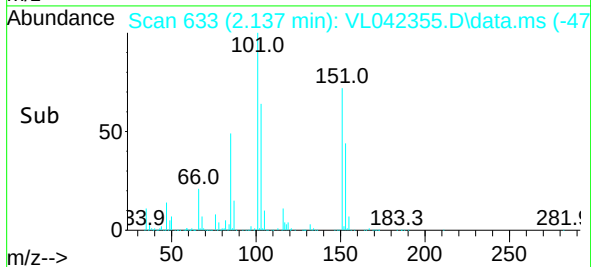
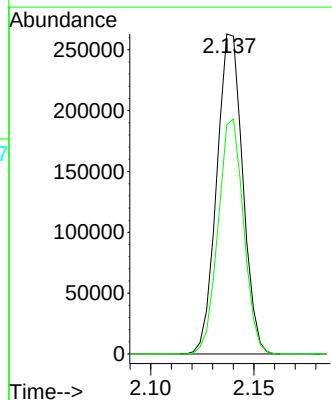
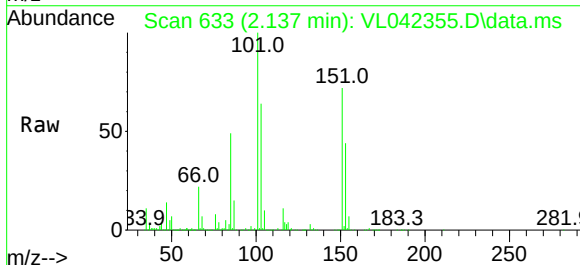
Manual Integrations
APPROVED

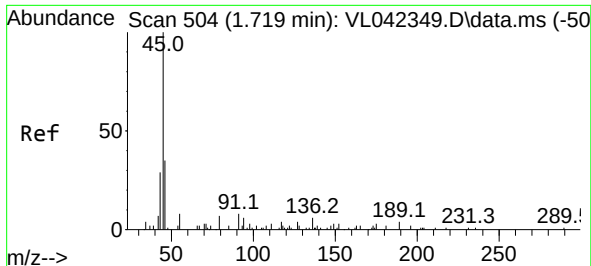
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

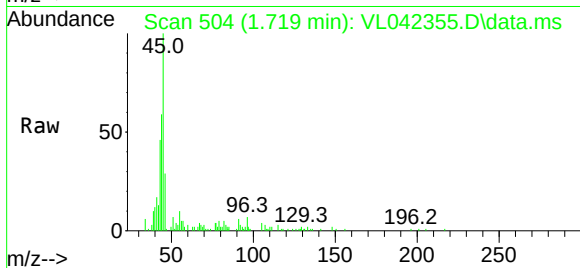
Tgt Ion:101 Resp: 230366
Ion Ratio Lower Upper
101 100
151 71.8 57.0 85.6





#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

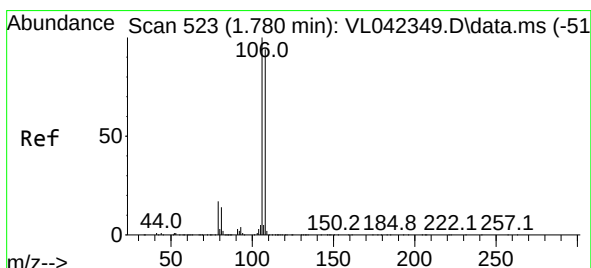
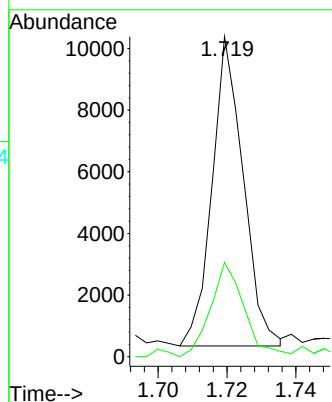
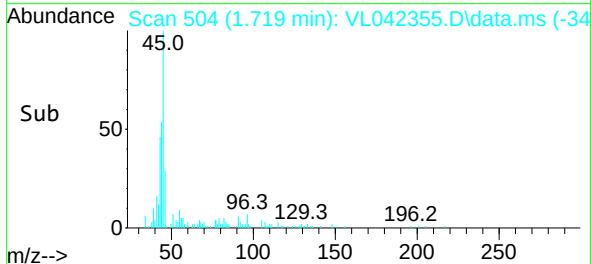
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



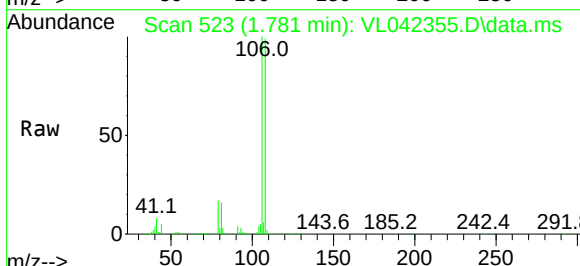
Tgt Ion: 45 Resp: 6324
Ion Ratio Lower Upper
45 100
46 37.6 21.9 87.7

Manual Integrations
APPROVED

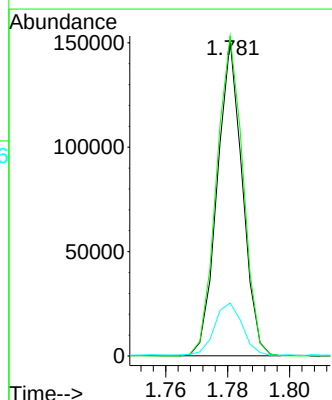
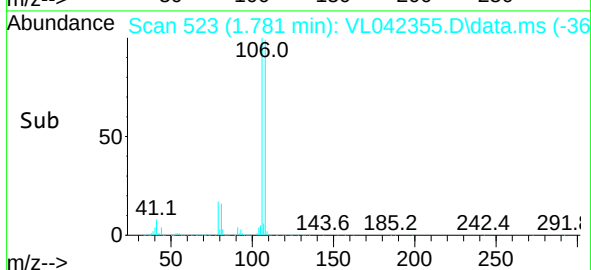
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

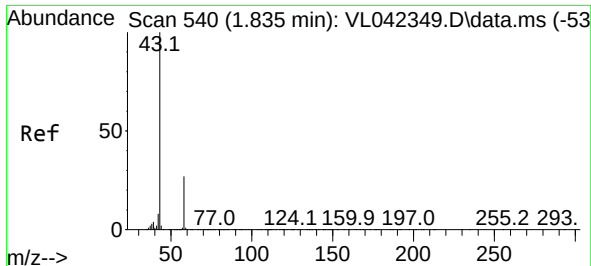


#14
Bromoethene
Concen: 14.117 ppbv
RT: 1.781 min Scan# 523
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54



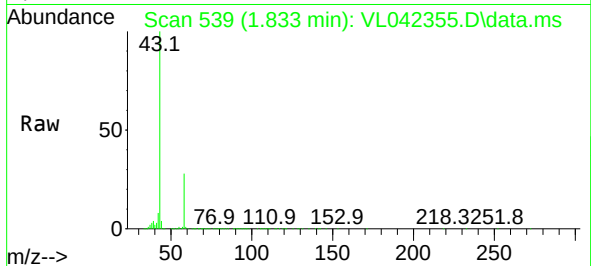
Tgt Ion:108 Resp: 84851
Ion Ratio Lower Upper
108 100
106 107.5 85.9 128.9
79 19.3 13.9 20.9





#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

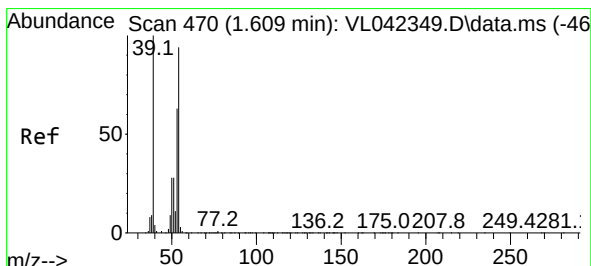
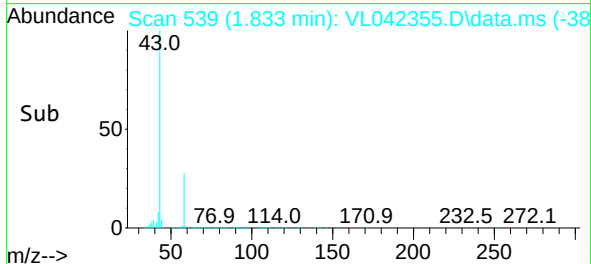
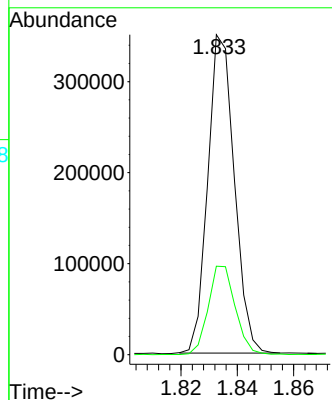
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion: 43 Resp: 229080
Ion Ratio Lower Upper
43 100
58 28.4 22.4 33.6

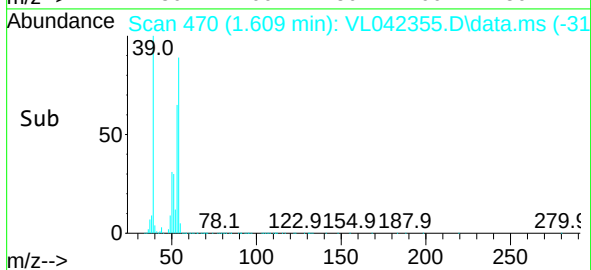
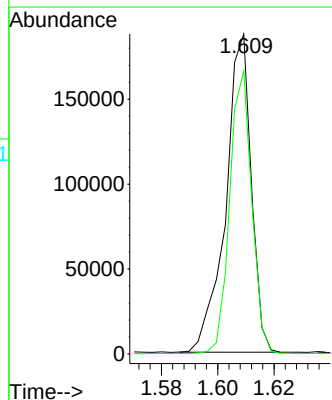
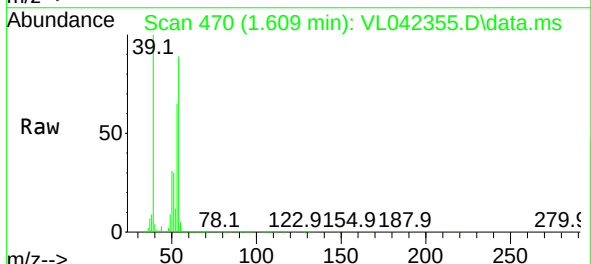
Manual Integrations
APPROVED

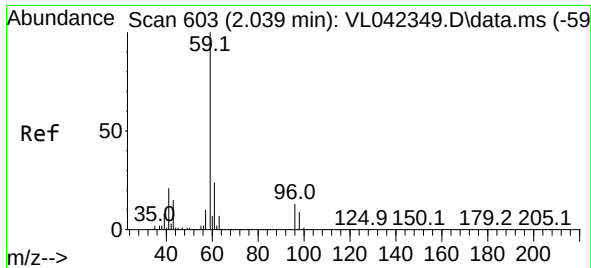
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

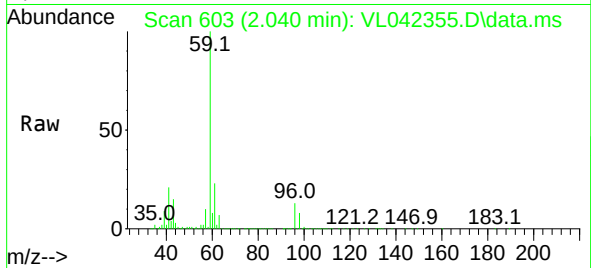
Tgt Ion: 39 Resp: 117997
Ion Ratio Lower Upper
39 100
54 77.2 64.9 97.3





#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

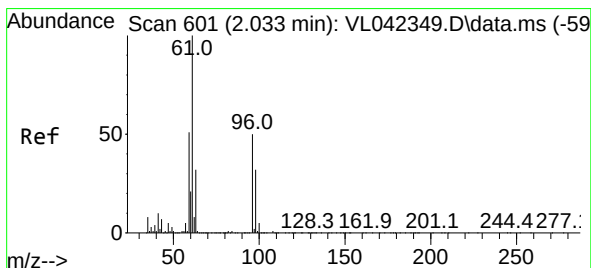
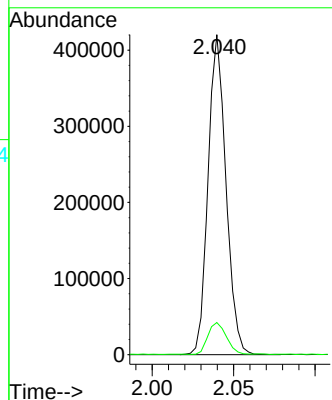
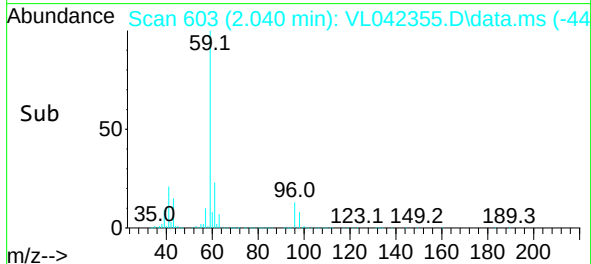
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



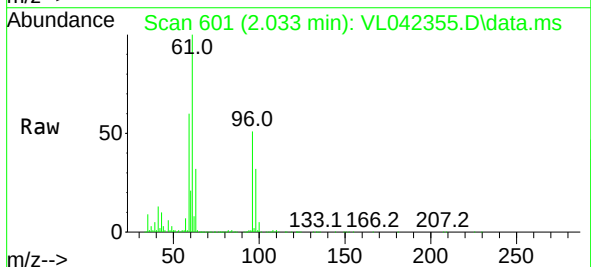
Tgt Ion: 59 Resp: 320609
Ion Ratio Lower Upper
59 100
57 10.6 8.7 13.1

Manual Integrations
APPROVED

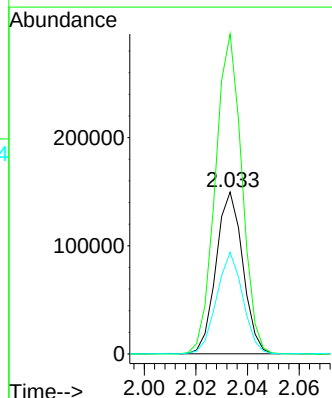
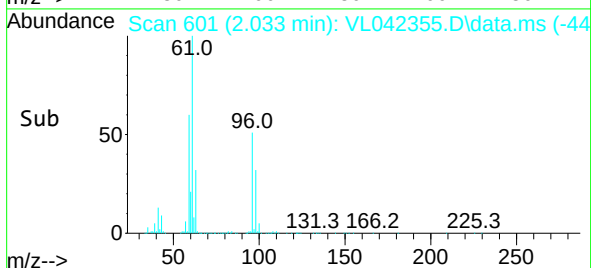
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

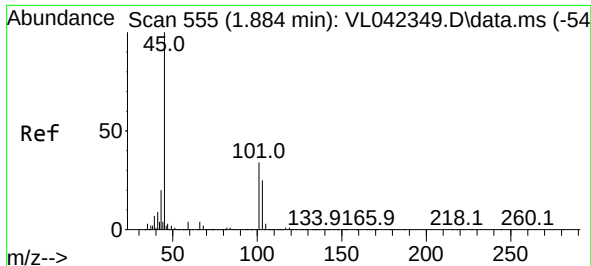


#18
1,1-Dichloroethene
Concen: 14.045 ppbv
RT: 2.033 min Scan# 601
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54



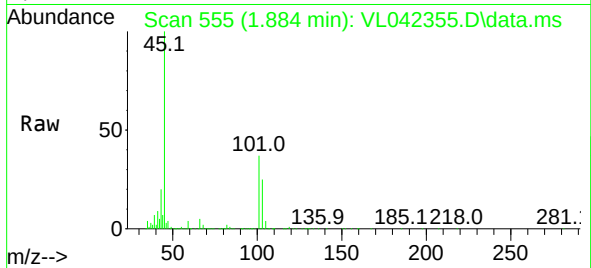
Tgt Ion: 96 Resp: 107666
Ion Ratio Lower Upper
96 100
61 197.8 160.2 240.2
98 62.9 51.0 76.4





#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

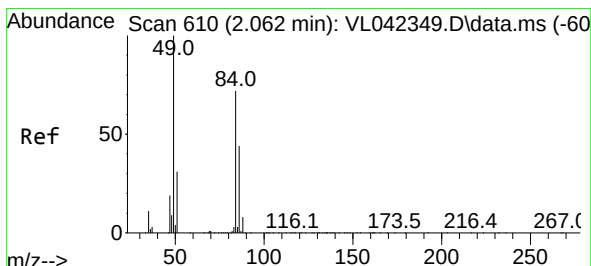
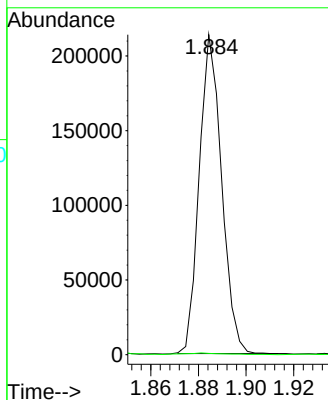
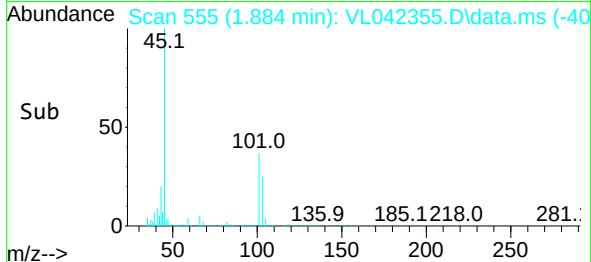
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



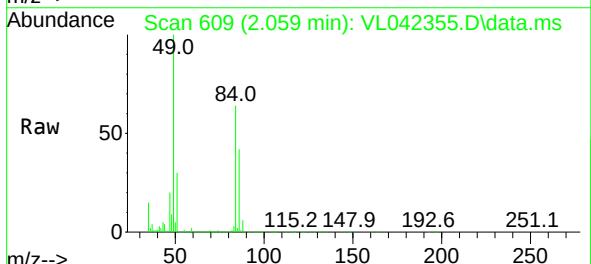
Tgt Ion: 45 Resp: 139004
Ion Ratio Lower Upper
45 100
58 46.9 34.5 51.7

Manual Integrations
APPROVED

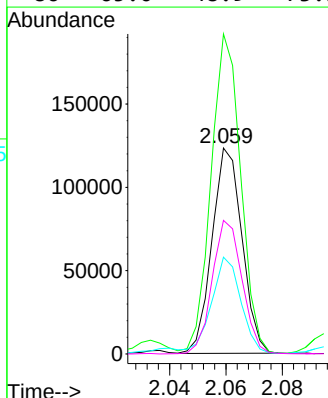
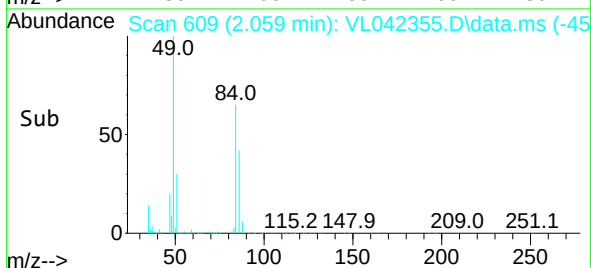
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

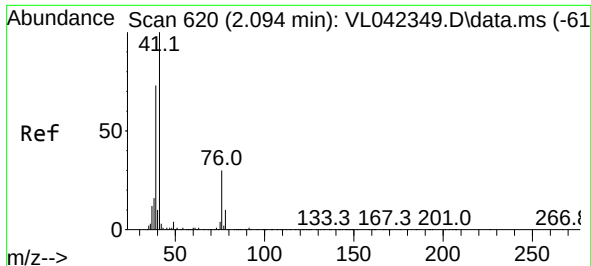


#20
Methylene Chloride
Concen: 12.241 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.003 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54



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 :

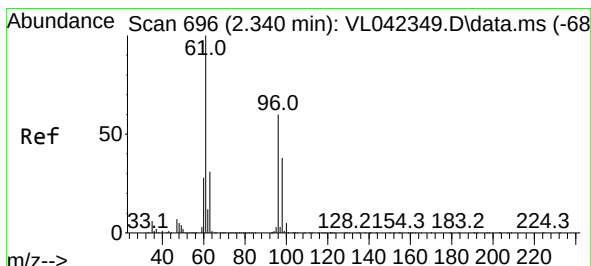
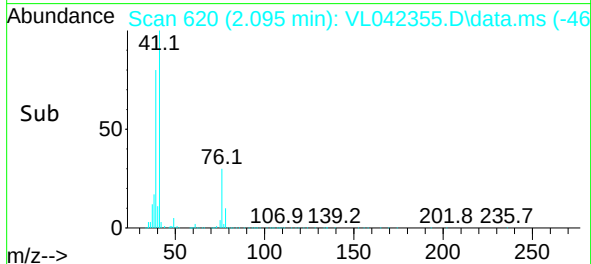
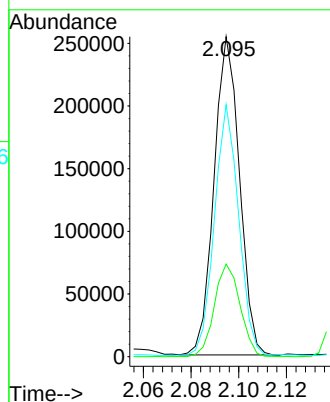
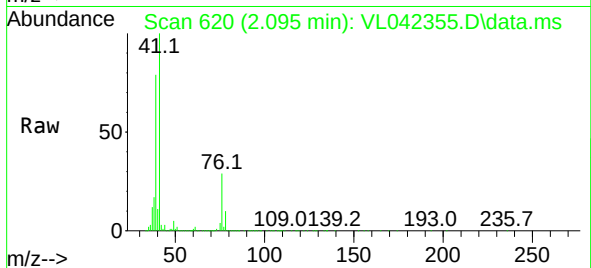
VSTDIC015

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

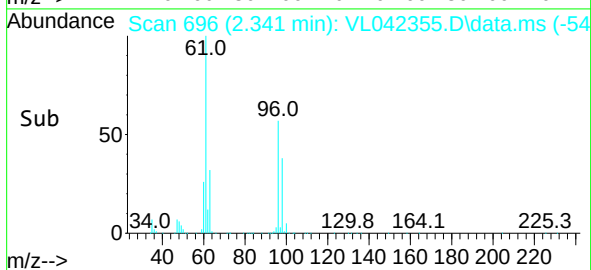
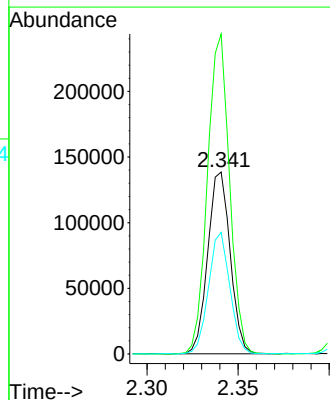
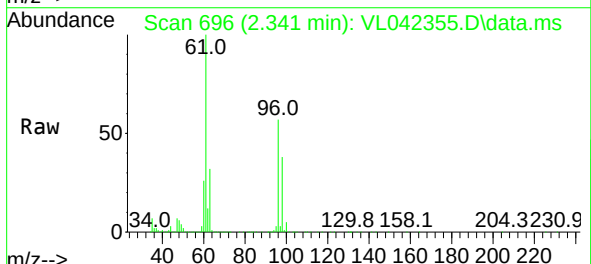
RT: 2.341 min Scan# 696

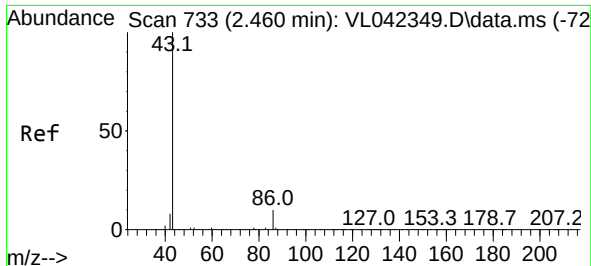
Delta R.T. 0.000 min

Lab File: VL042355.D

Acq: 17 Apr 2025 12:54

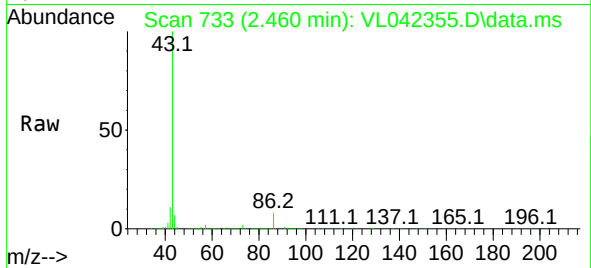
Tgt Ion: 96	Resp: 118492
Ion Ratio	Lower Upper
96	100
61	176.1 133.7 200.5
98	66.8 50.3 75.5





#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

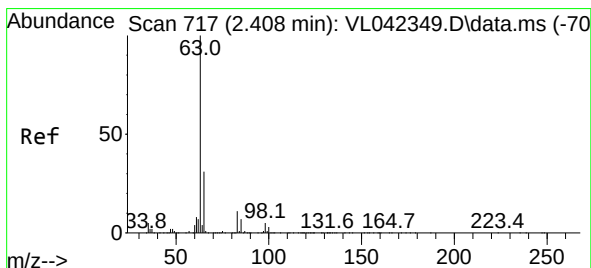
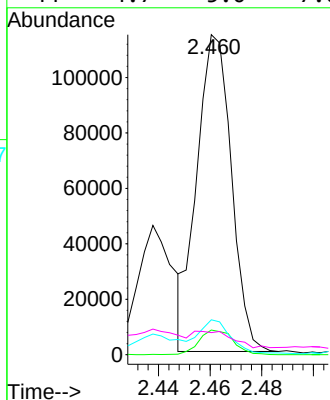
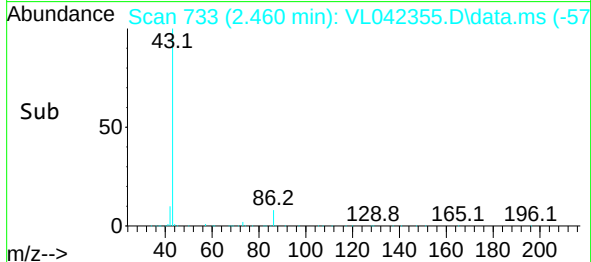
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



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#

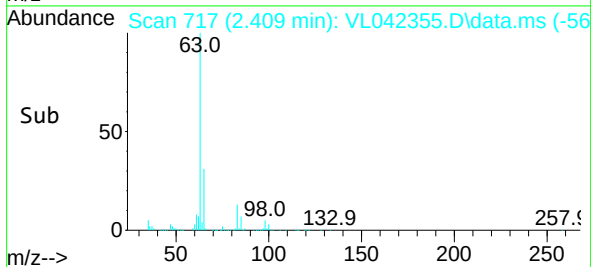
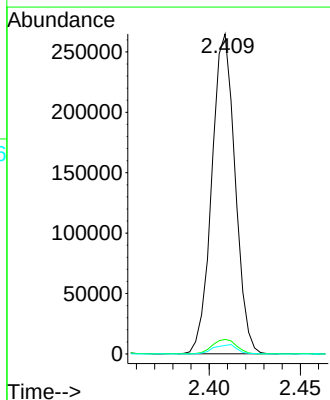
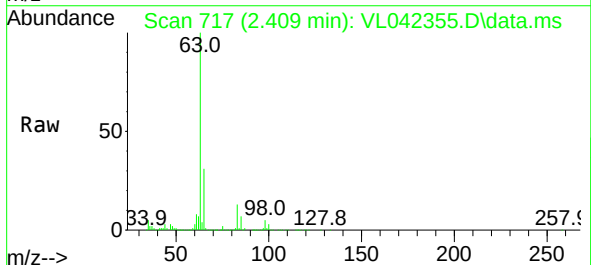
Manual Integrations
 APPROVED

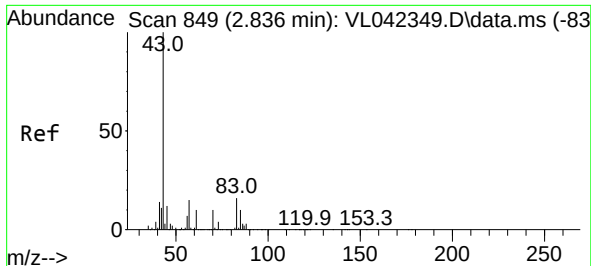
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#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

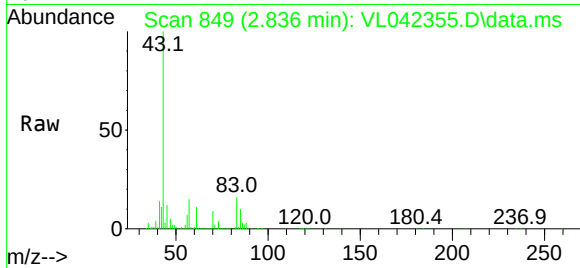
Tgt Ion: 63 Resp: 235466
 Ion Ratio Lower Upper
 63 100
 98 4.5 2.3 6.8
 100 2.6 1.6 4.8





#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

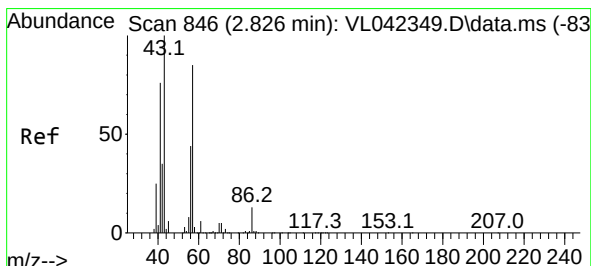
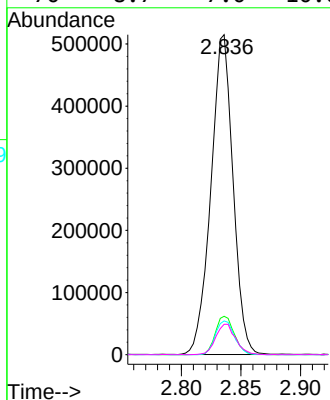
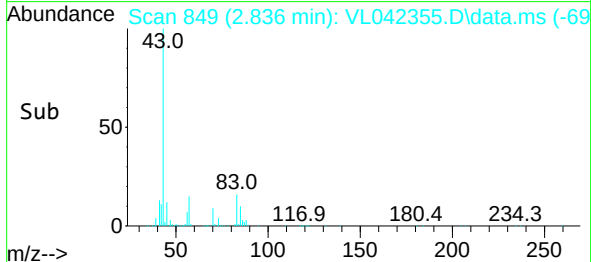
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



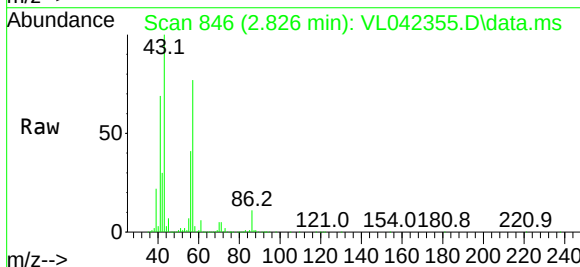
Tgt Ion: 43 Resp: 663644
Ion Ratio Lower Upper
43 100
45 10.4 8.3 12.5
61 9.2 7.3 10.9
70 8.7 7.0 10.6

Manual Integrations
APPROVED

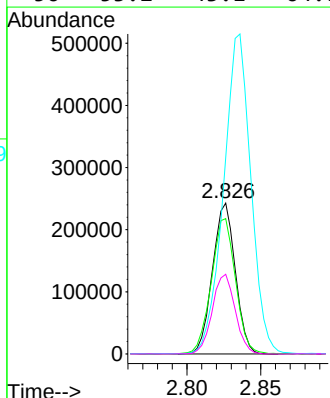
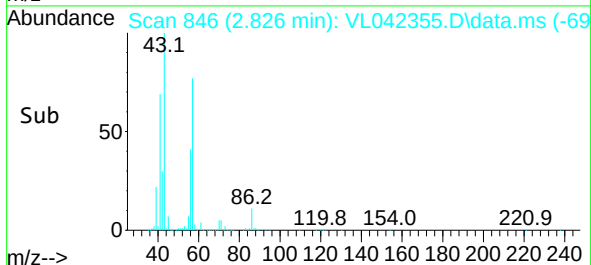
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

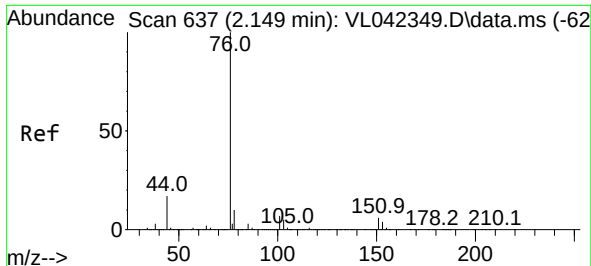


#26
Hexane
Concen: 13.765 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54



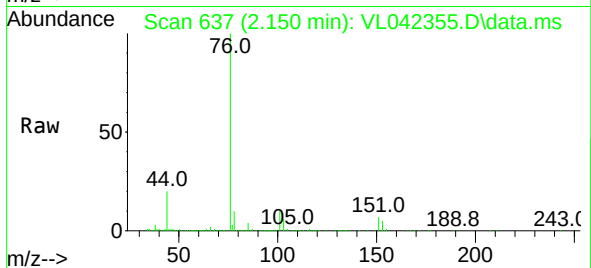
Tgt Ion: 57 Resp: 260975
Ion Ratio Lower Upper
57 100
41 95.3 77.9 116.9
43 254.5 208.4 312.6
56 53.2 43.1 64.7





#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

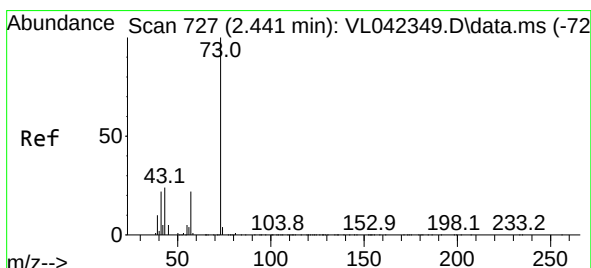
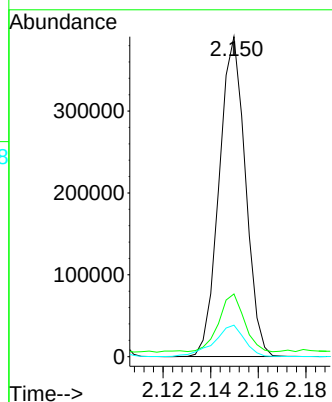
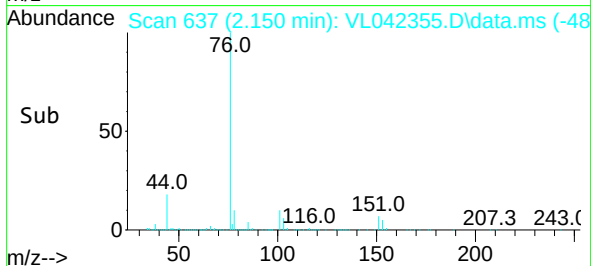
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



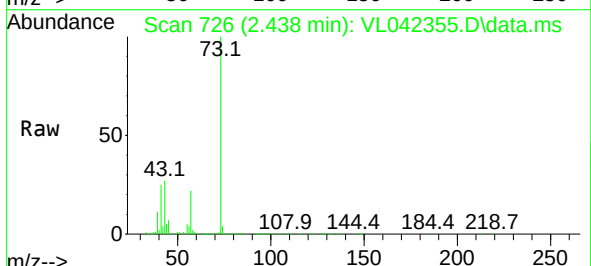
Tgt Ion: 76 Resp: 299098
Ion Ratio Lower Upper
76 100
44 17.3 15.5 23.3
78 11.4 9.3 13.9

Manual Integrations
APPROVED

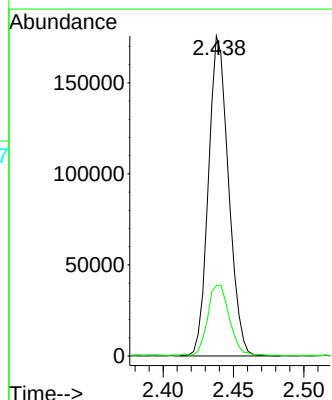
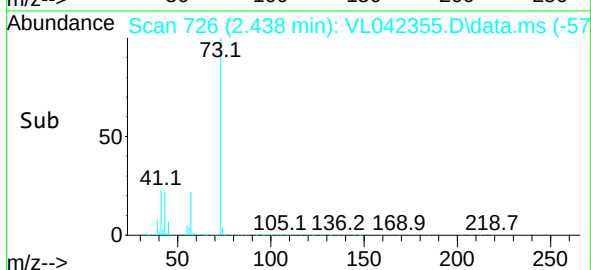
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

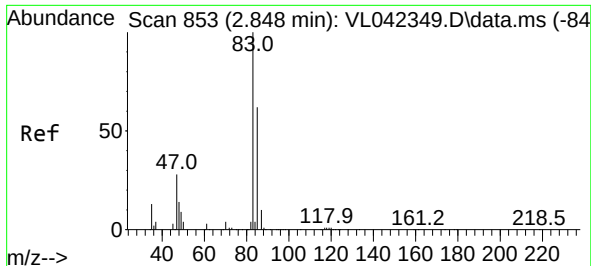


#28
Methyl tert-Butyl Ether
Concen: 14.076 ppbv
RT: 2.438 min Scan# 726
Delta R.T. -0.003 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54



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

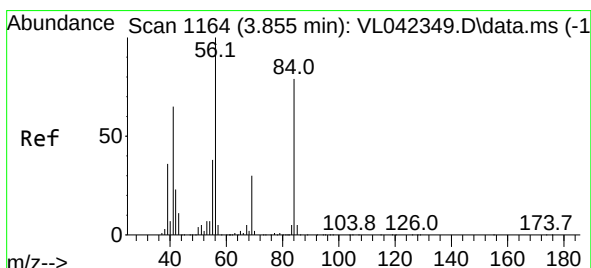
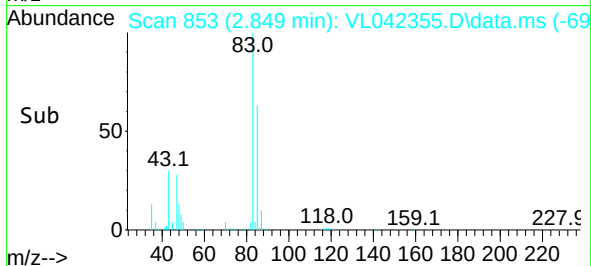
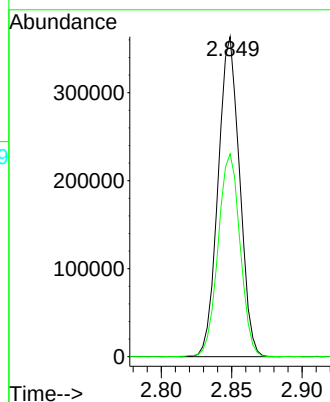
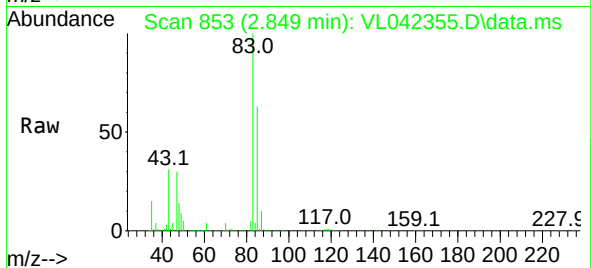
85 63.4 50.0 75.0

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

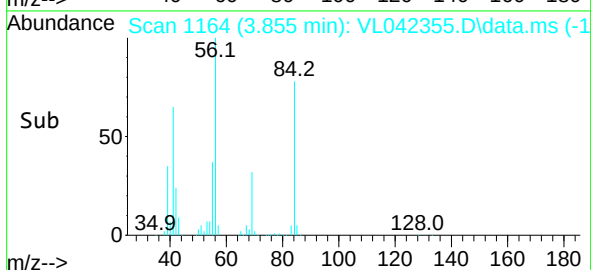
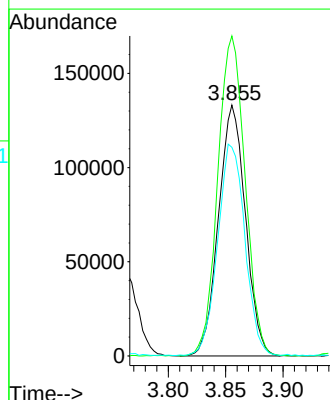
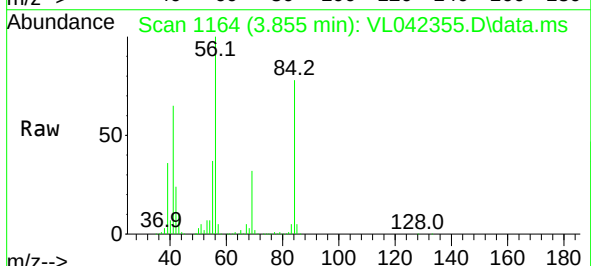
Tgt Ion: 84 Resp: 217375

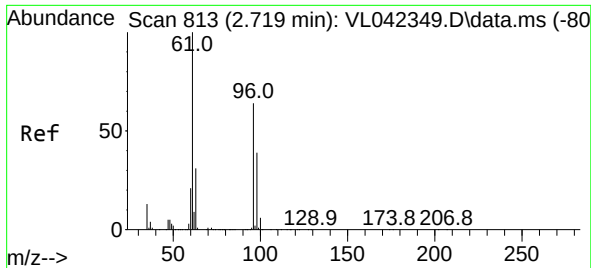
Ion Ratio Lower Upper

84 100

56 129.4 101.0 151.4

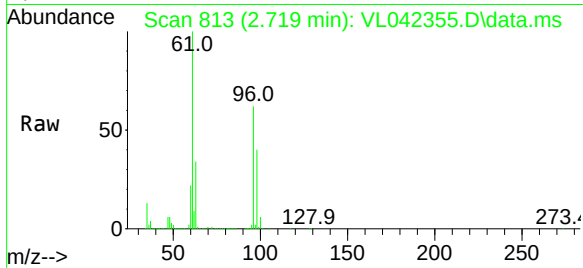
41 85.3 67.4 101.0





#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

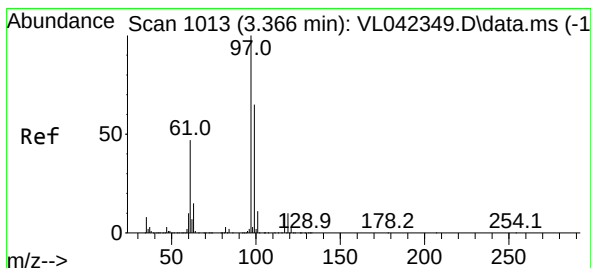
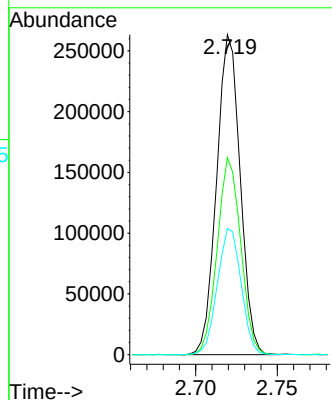
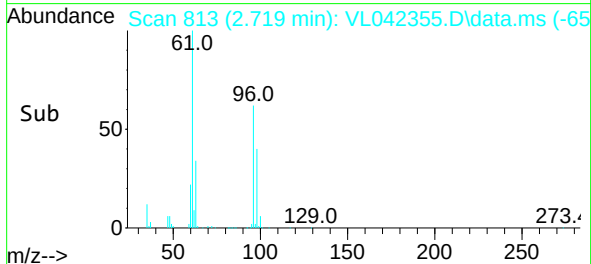
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



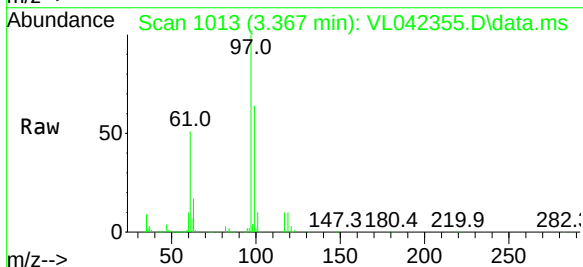
Tgt Ion: 61 Resp: 264972
 Ion Ratio Lower Upper
 61 100
 96 61.6 50.8 76.2
 98 39.5 30.9 46.3

Manual Integrations
 APPROVED

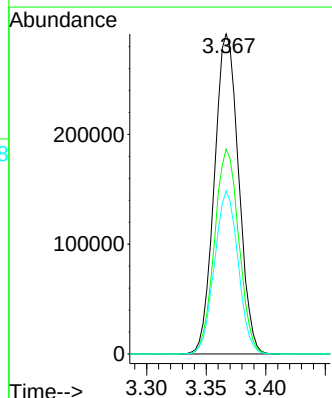
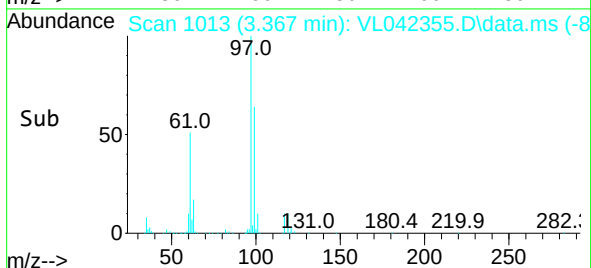
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

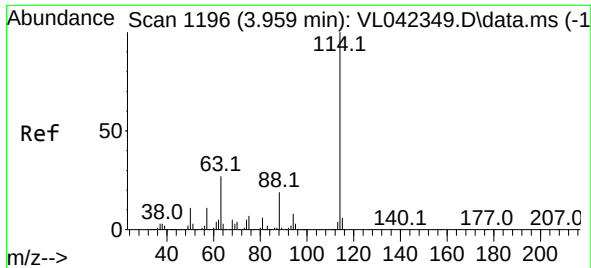


#32
 1,1,1-Trichloroethane
 Concen: 14.357 ppbv
 RT: 3.367 min Scan# 1013
 Delta R.T. 0.000 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54



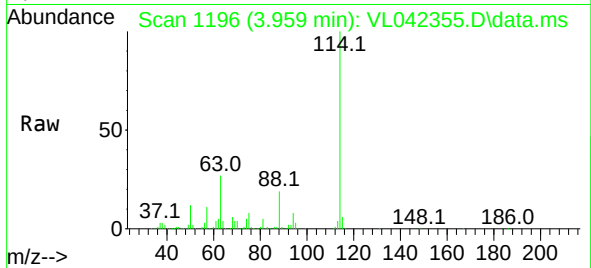
Tgt Ion: 97 Resp: 412537
 Ion Ratio Lower Upper
 97 100
 99 64.1 51.0 76.4
 61 49.8 38.8 58.2





#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

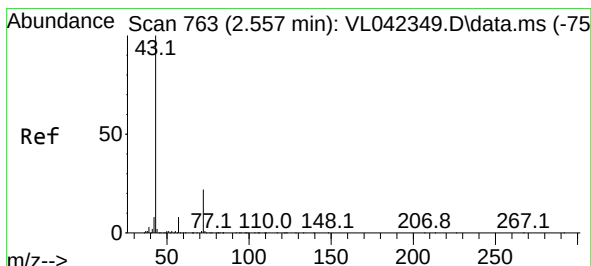
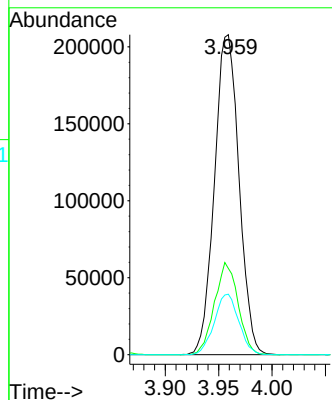
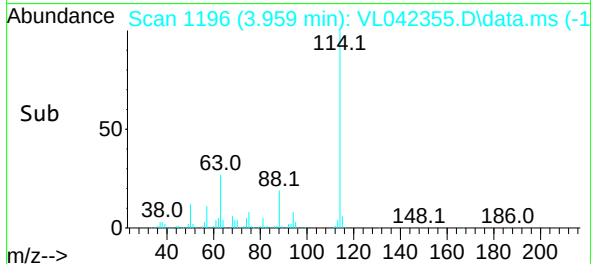
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



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

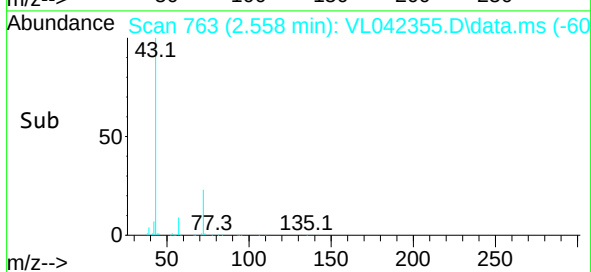
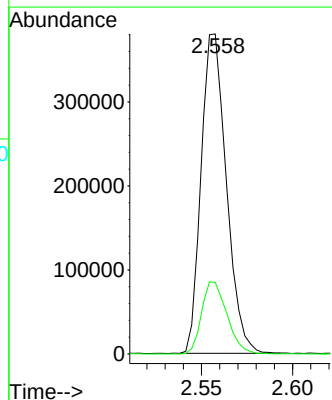
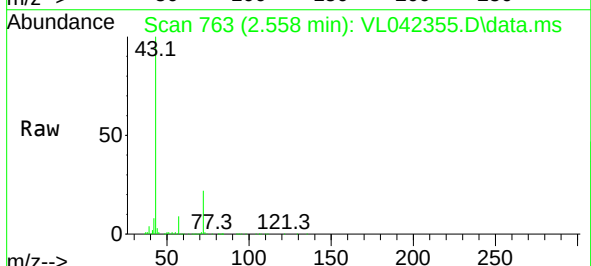
Manual Integrations
APPROVED

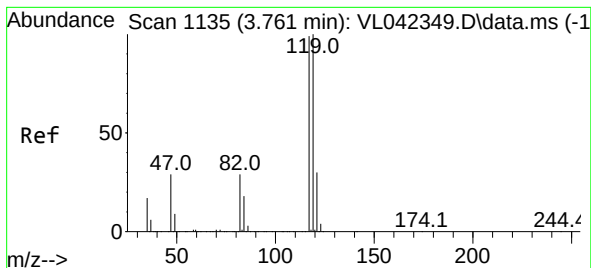
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

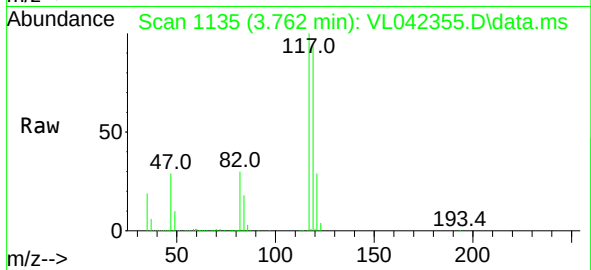
Acq: 17 Apr 2025 12:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015



Tgt Ion: 117 Resp: 409910

Ion Ratio Lower Upper

117 100

119 94.0 80.5 120.7

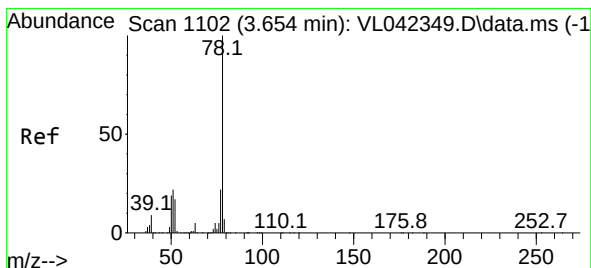
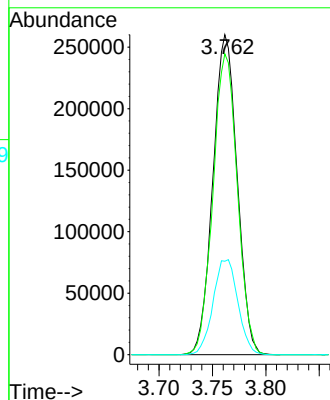
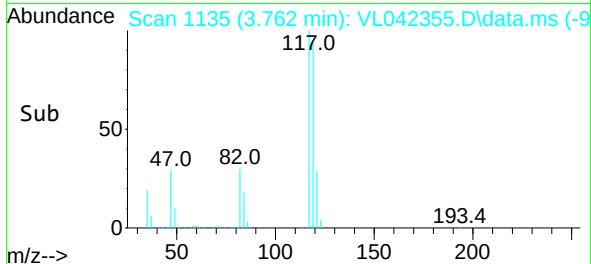
121 29.2 24.2 36.2

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

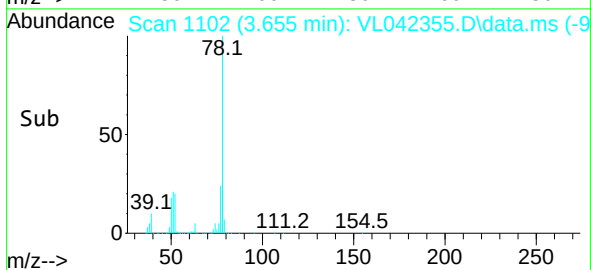
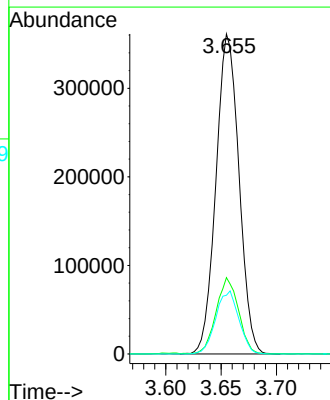
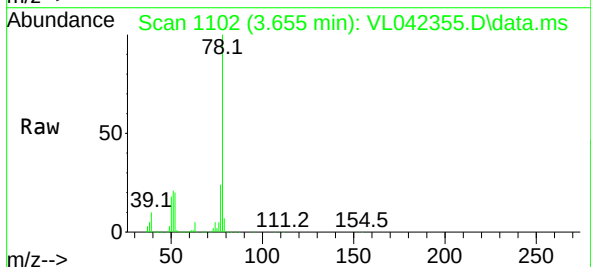
Tgt Ion: 78 Resp: 522156

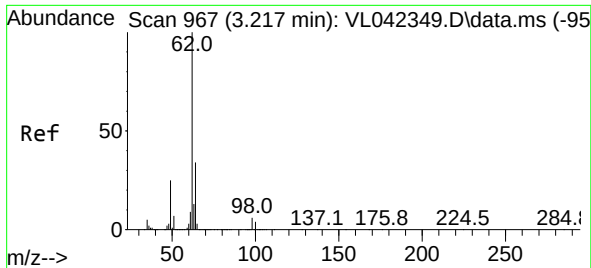
Ion Ratio Lower Upper

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

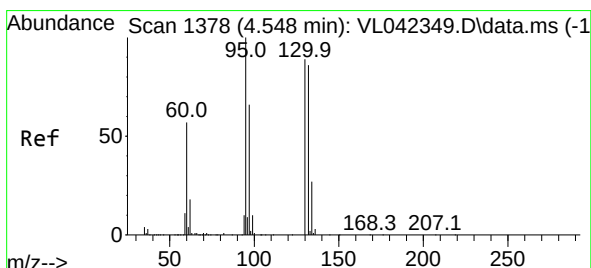
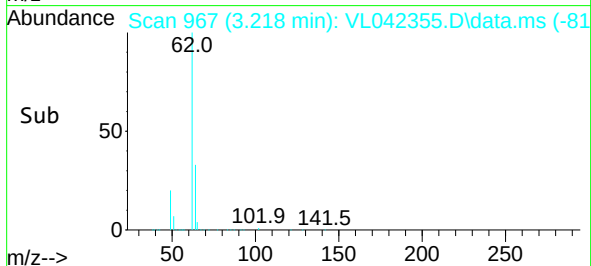
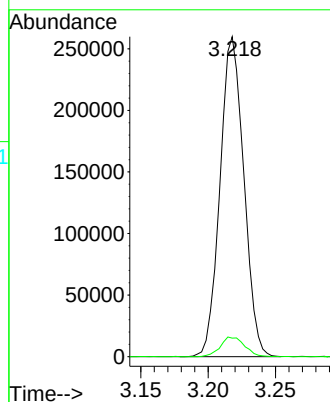
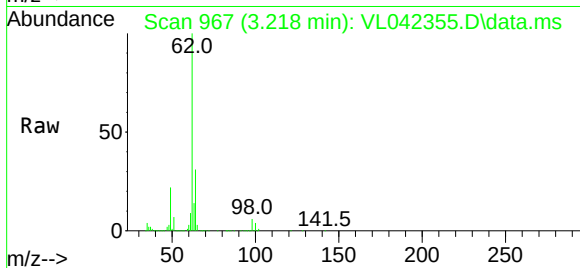
98 6.3 5.1 7.7

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

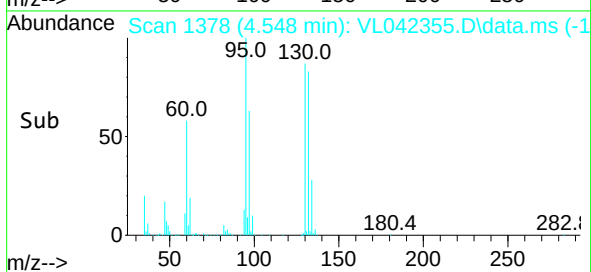
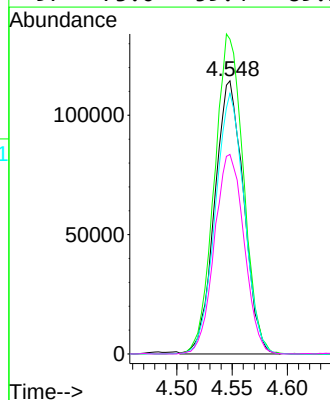
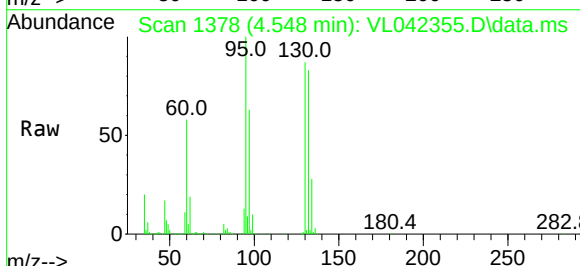
Ion Ratio Lower Upper

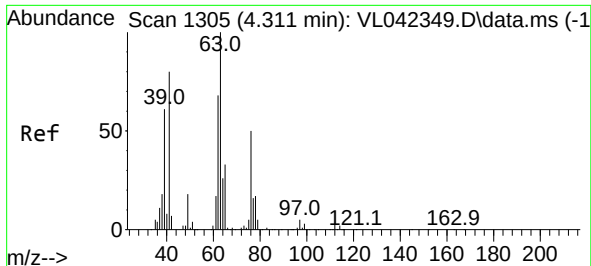
130 100

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# 1

Delta R.T. 0.000 min

Lab File: VL042355.D

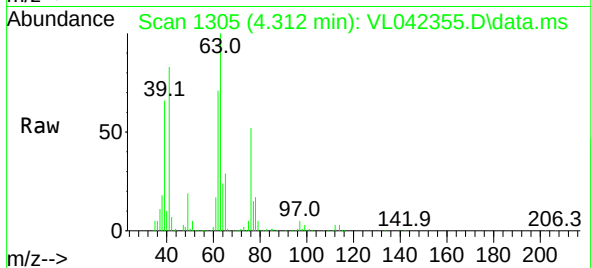
Acq: 17 Apr 2025 12:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015



Tgt Ion: 63 Resp: 18969

Ion Ratio Lower Upper

63 100

41 82.7 64.2 96.2

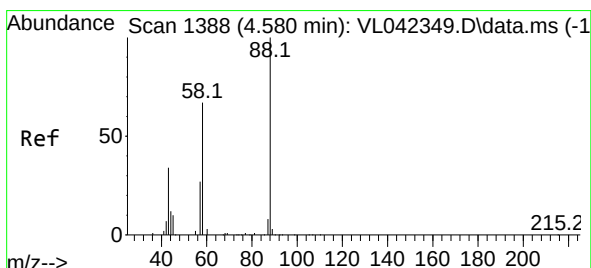
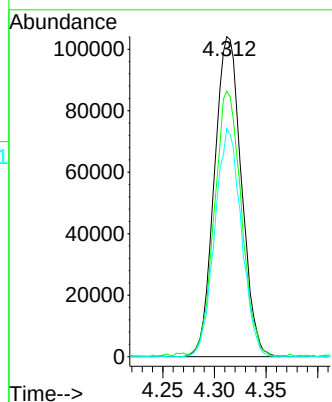
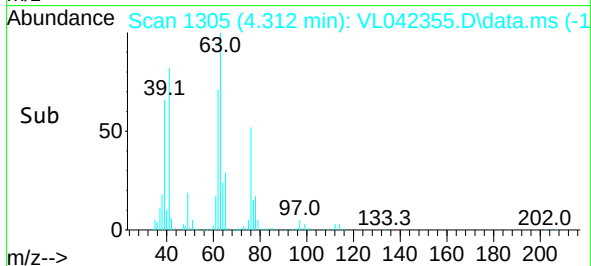
62 71.4 54.3 81.5

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

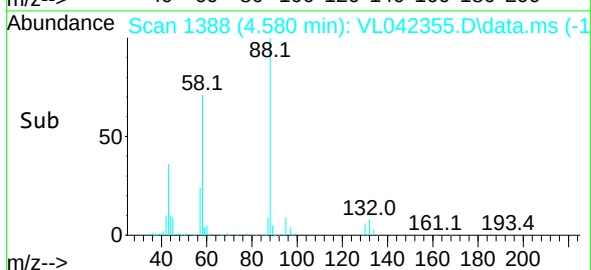
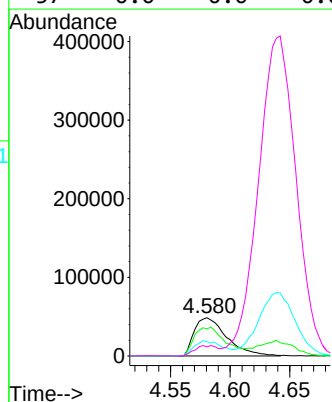
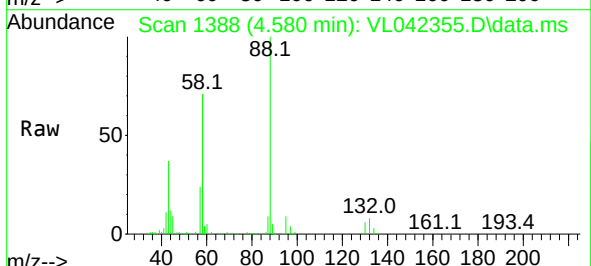
Ion Ratio Lower Upper

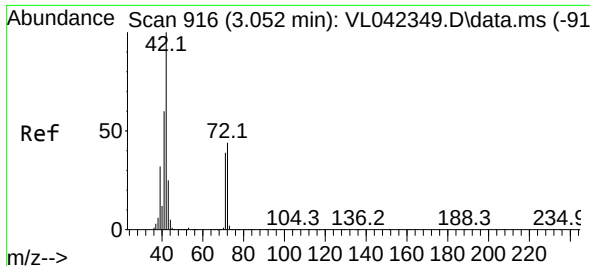
88 100

58 75.2 61.4 92.0

43 36.8 23.2 34.8#

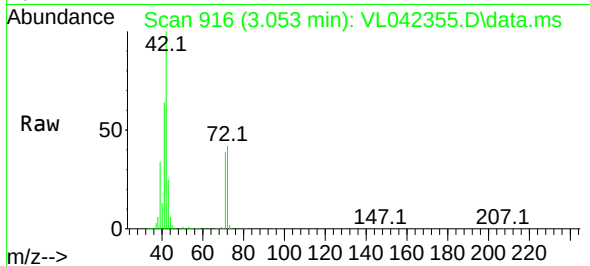
57 0.0 0.0 0.0





#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

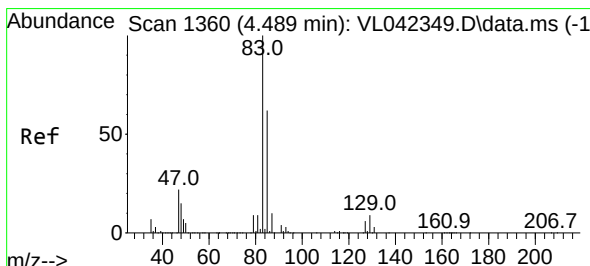
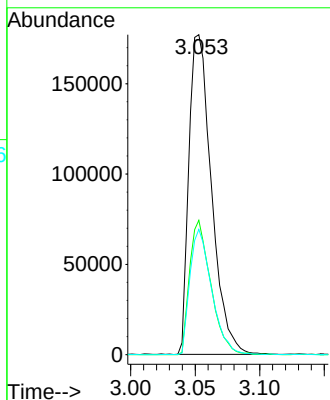
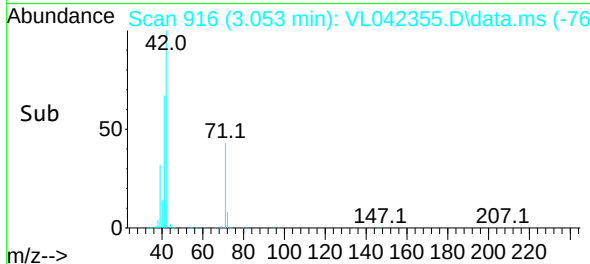
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



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

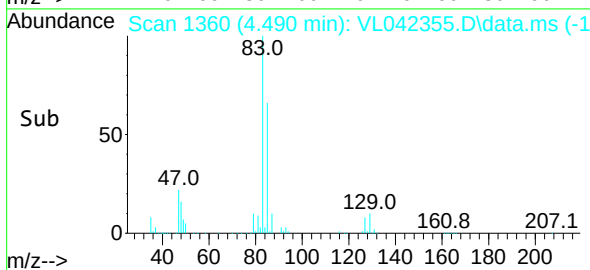
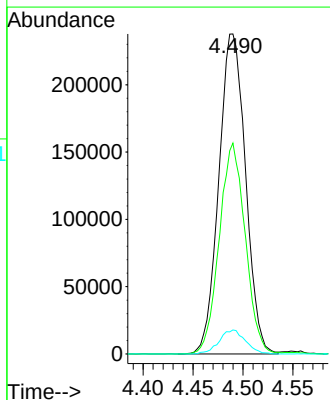
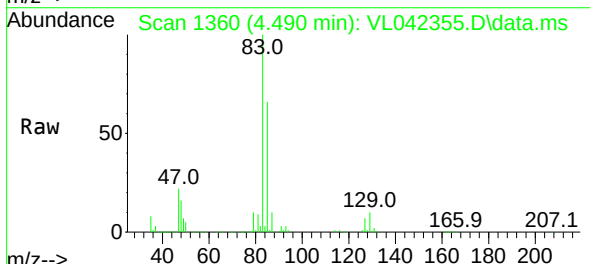
Manual Integrations
APPROVED

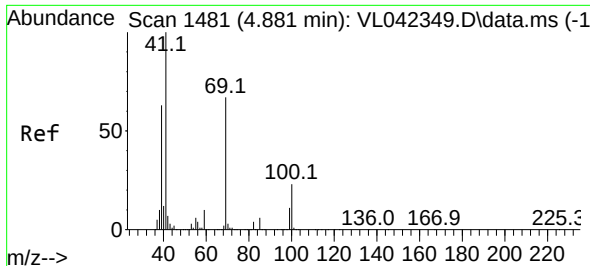
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

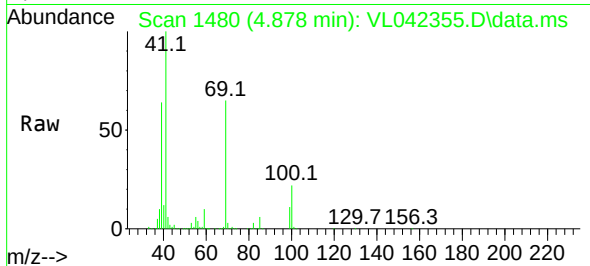
Tgt Ion: 83 Resp: 442735
Ion Ratio Lower Upper
83 100
85 65.9 49.7 74.5
127 7.5 5.1 7.7





#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

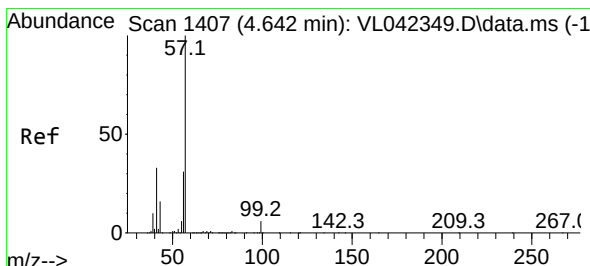
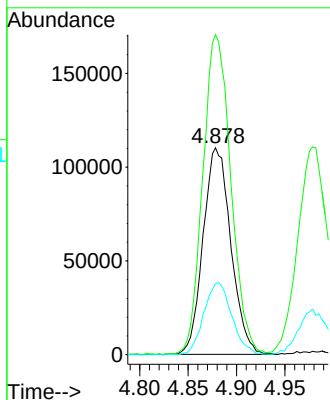
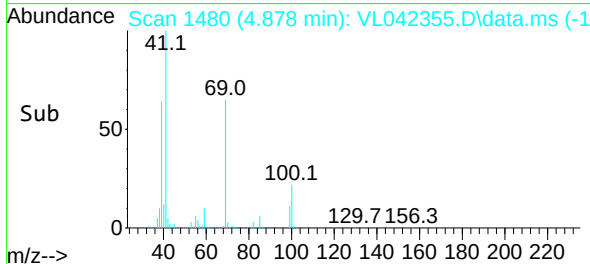
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



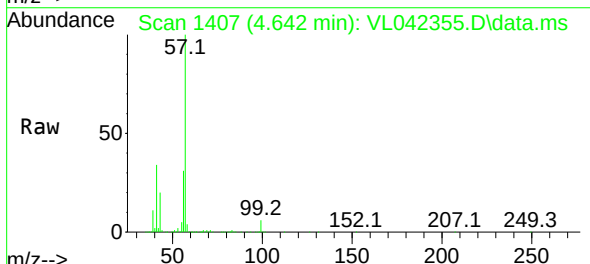
Tgt Ion: 69 Resp: 21975
Ion Ratio Lower Upper
69 100
41 156.6 118.6 177.8
100 35.2 28.2 42.2

Manual Integrations
APPROVED

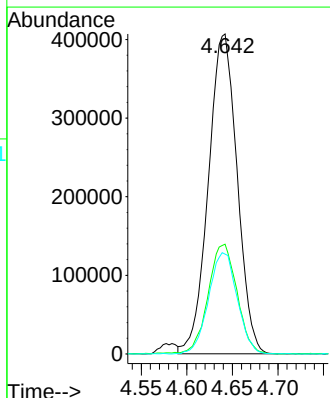
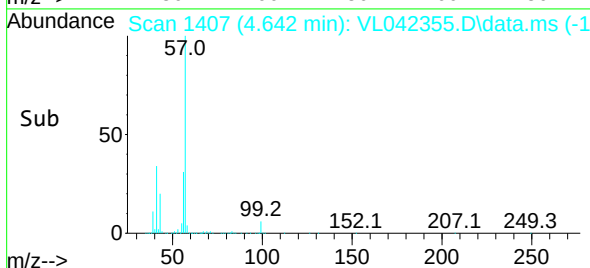
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

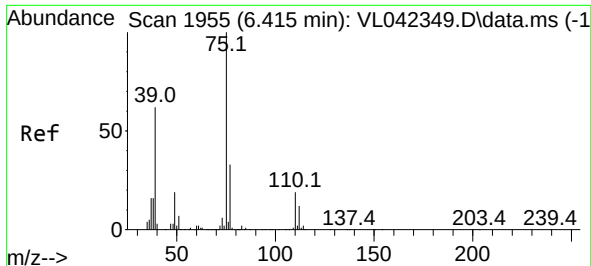


#44
2,2,4-Trimethylpentane
Concen: 14.425 ppbv
RT: 4.642 min Scan# 1407
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54



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

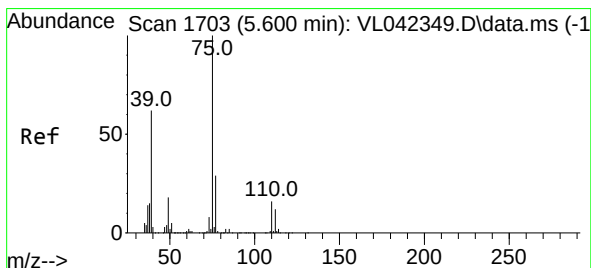
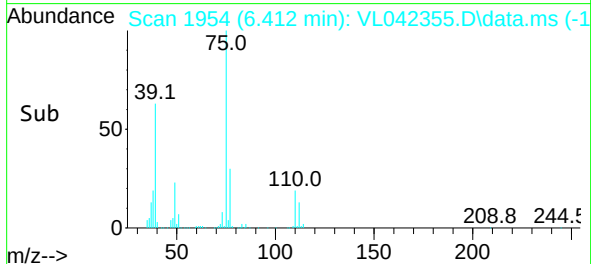
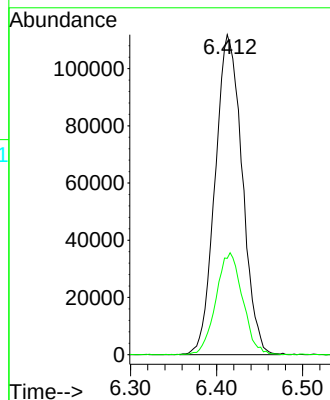
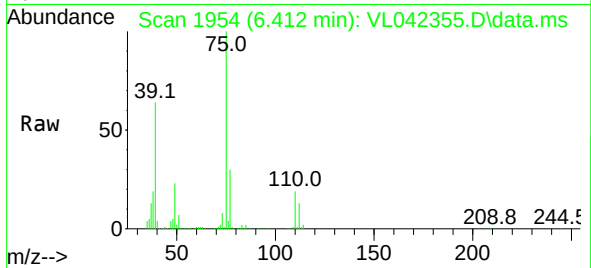
77 30.1 27.0 40.6

Manual Integrations

APPROVED

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

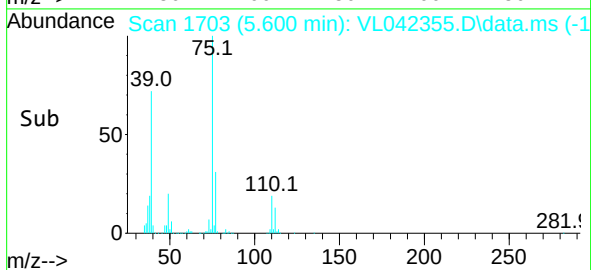
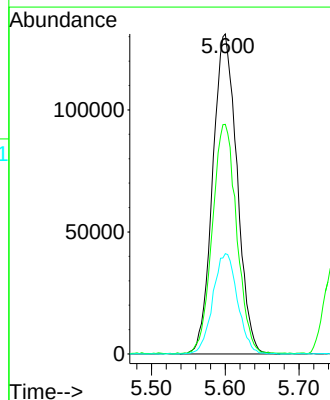
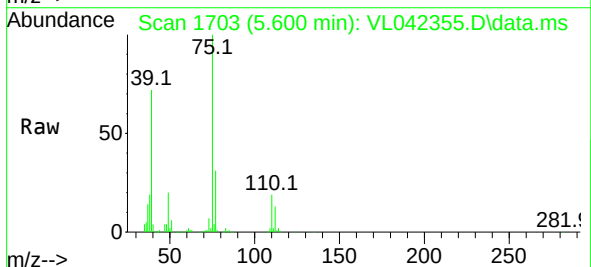
Tgt Ion: 75 Resp: 300145

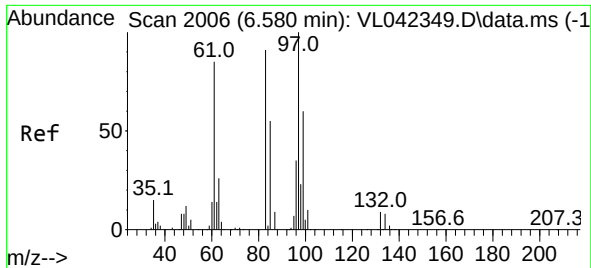
Ion Ratio Lower Upper

75 100

39 71.6 50.0 75.0

77 31.3 23.0 34.6





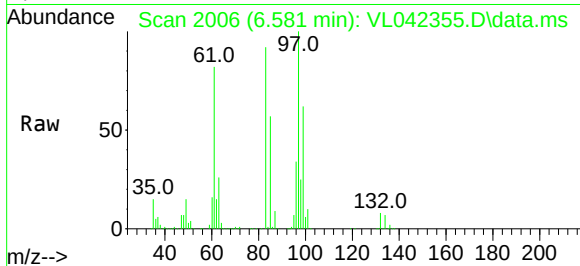
#47
1,1,2-Trichloroethane
Concen: 14.615 ppbv
RT: 6.581 min Scan# 2006
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

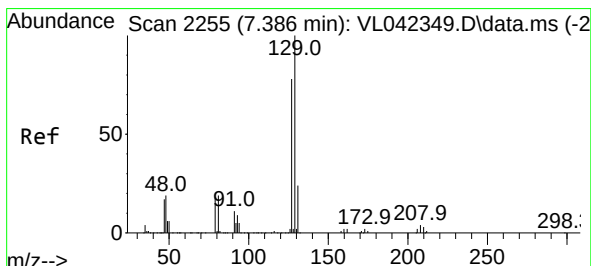
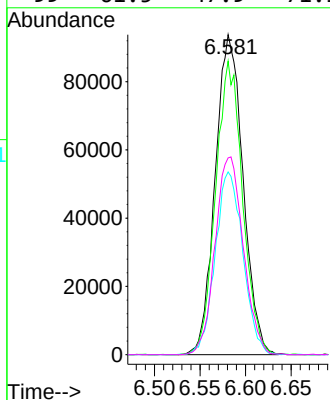
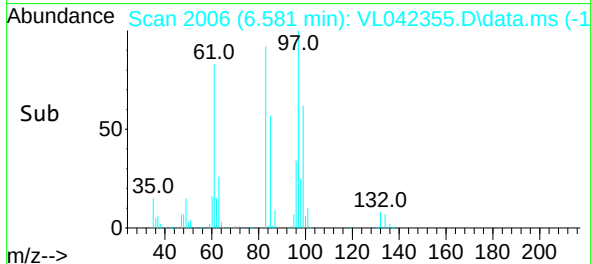


Tgt Ion: 97 Resp: 198874
Ion Ratio Lower Upper
97 100
83 91.7 72.8 109.2
85 57.0 44.2 66.4
99 61.5 47.9 71.9

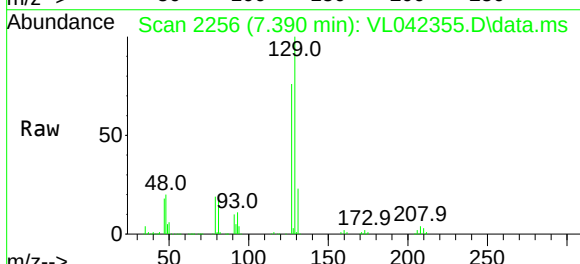
Manual Integrations

APPROVED

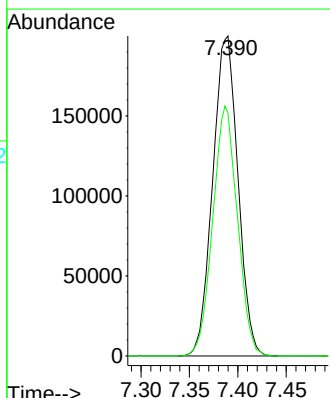
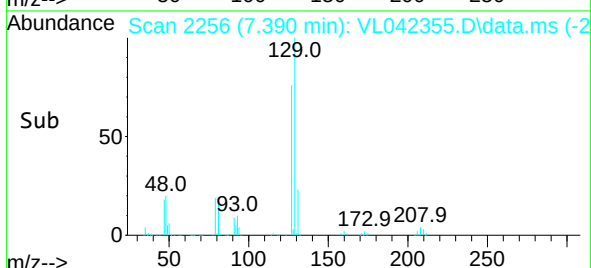
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

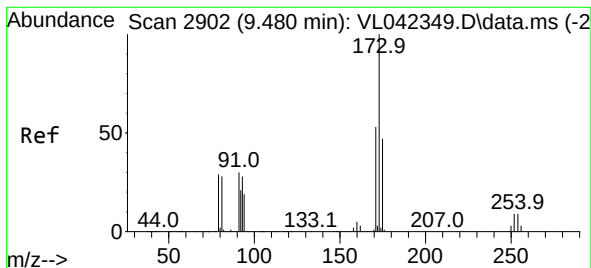


#48
Dibromochloromethane
Concen: 15.105 ppbv
RT: 7.390 min Scan# 2256
Delta R.T. 0.004 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54



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

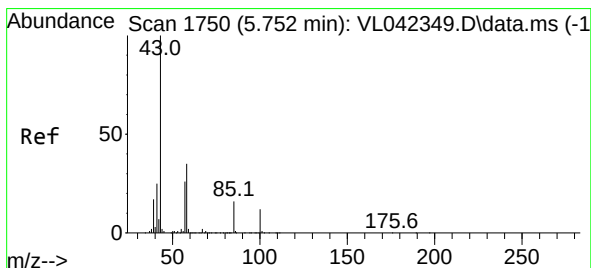
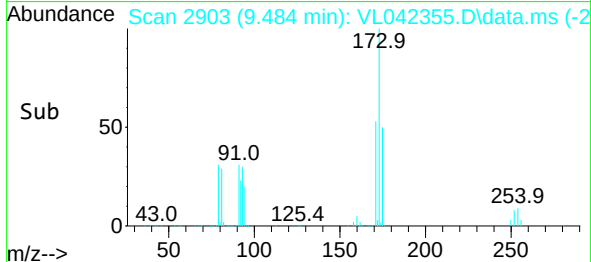
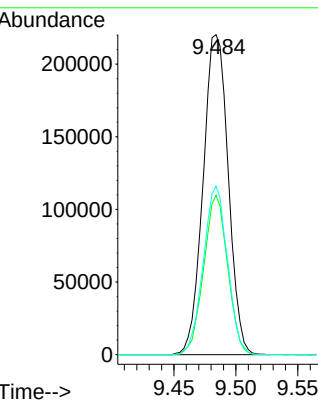
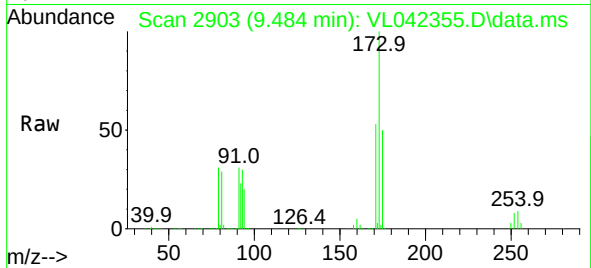
171 50.6 40.9 61.3

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

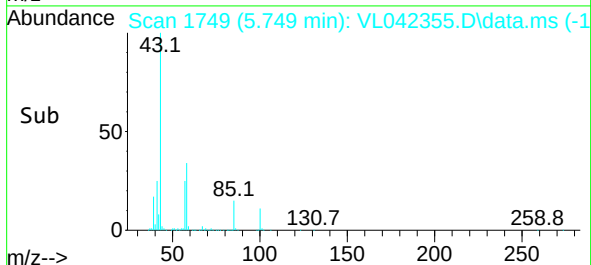
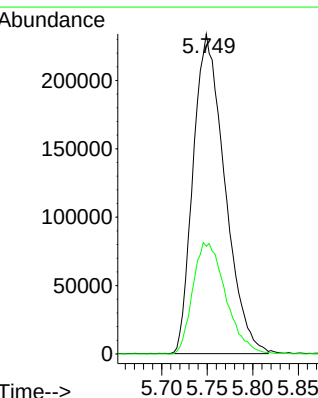
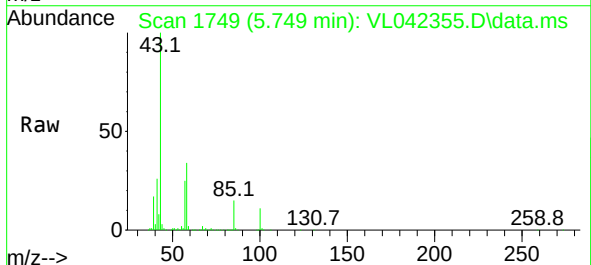
Acq: 17 Apr 2025 12:54

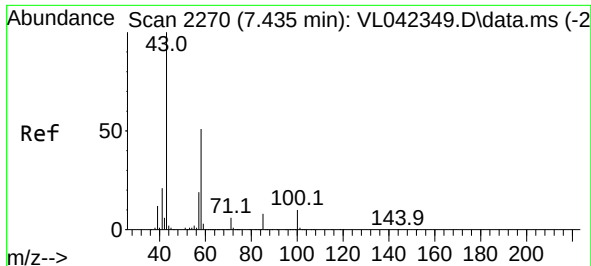
Tgt Ion: 43 Resp: 563658

Ion Ratio Lower Upper

43 100

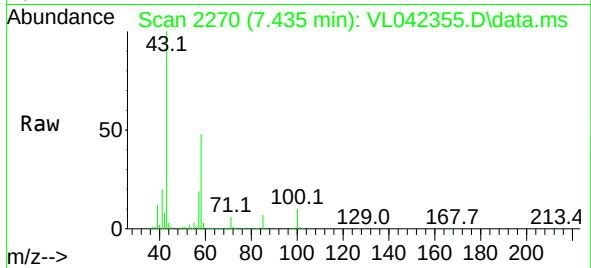
58 36.3 28.6 43.0





#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

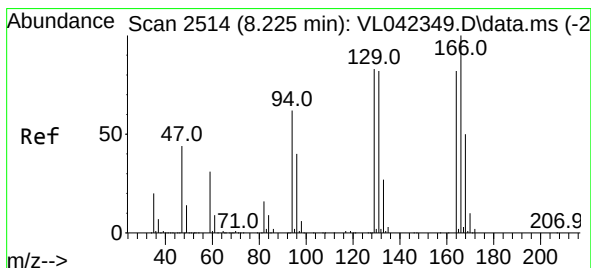
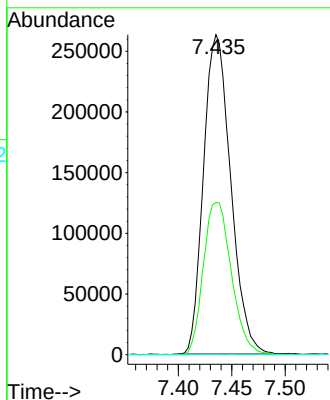
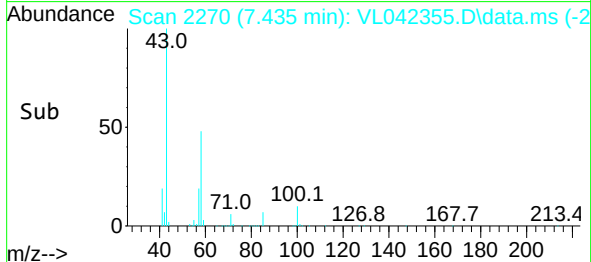
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



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

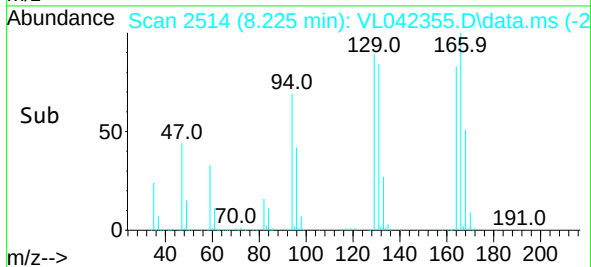
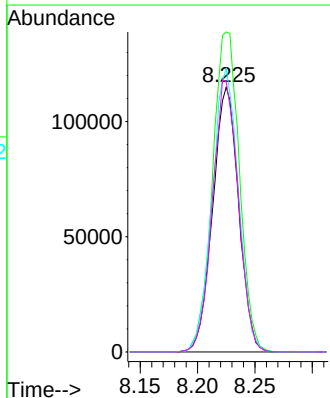
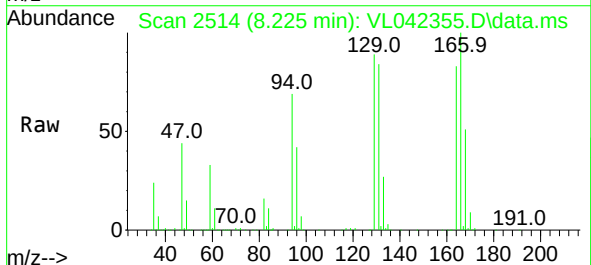
Manual Integrations
APPROVED

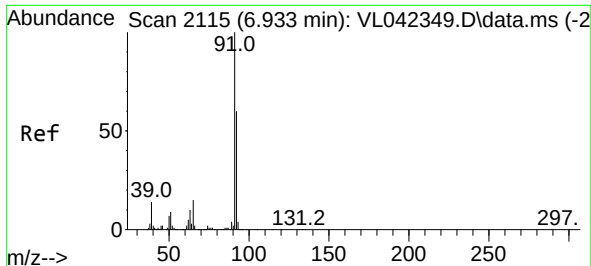
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

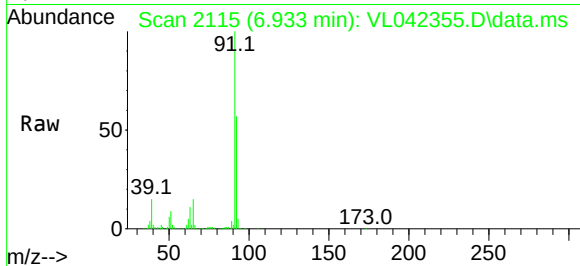
Tgt Ion:164 Resp: 180631
Ion Ratio Lower Upper
164 100
166 120.8 98.2 147.2
129 107.0 81.8 122.8
131 102.0 80.5 120.7





#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

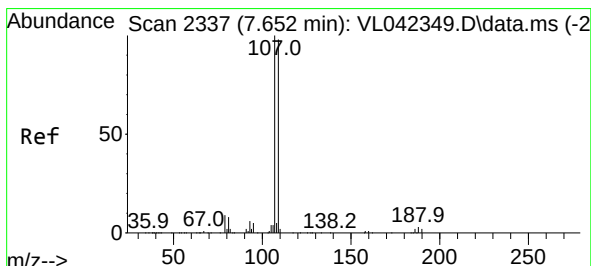
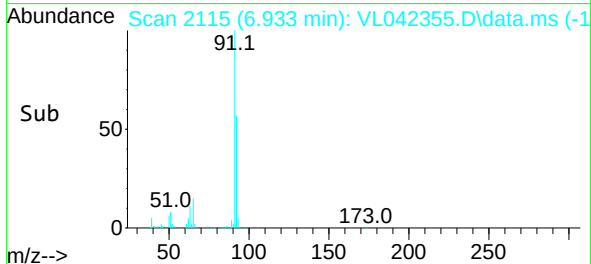
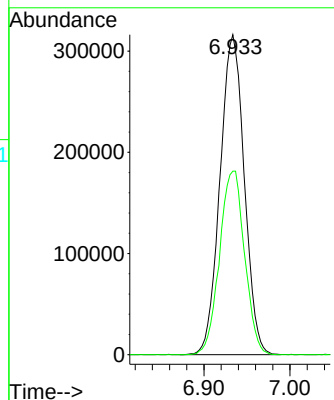
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



Tgt Ion: 91 Resp: 619420
Ion Ratio Lower Upper
91 100
92 59.3 48.2 72.4

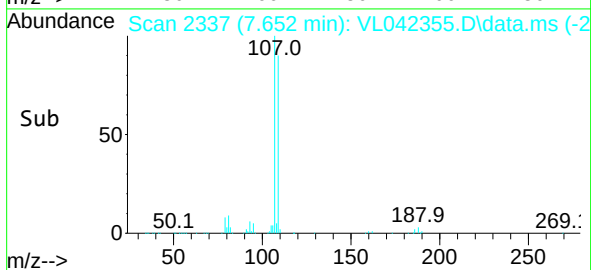
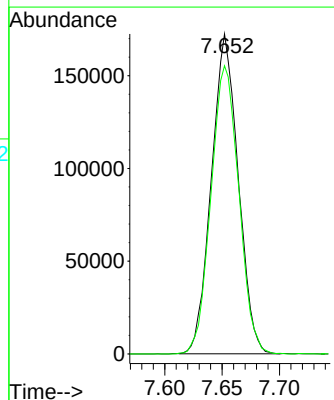
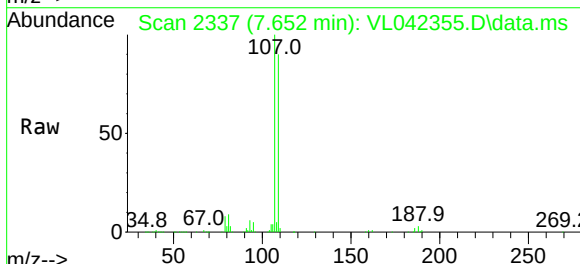
Manual Integrations
APPROVED

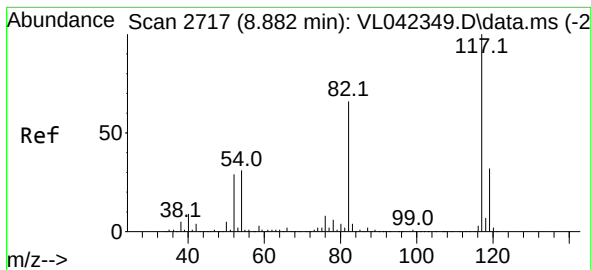
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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





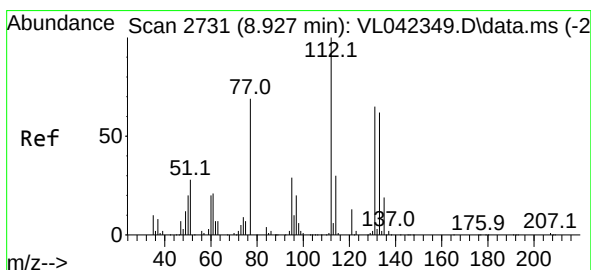
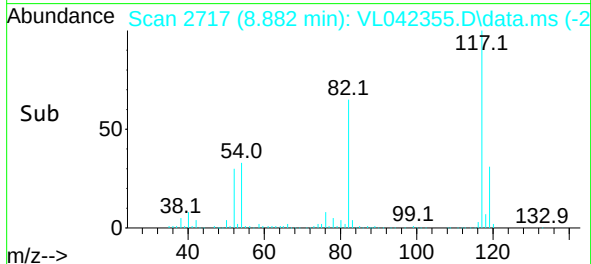
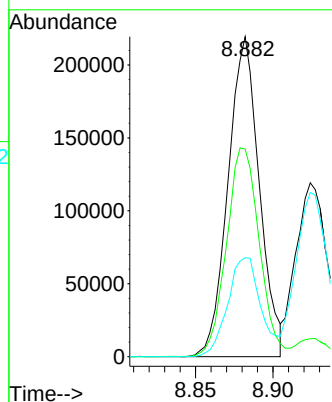
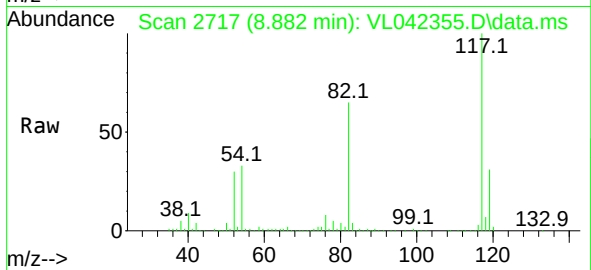
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2717
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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

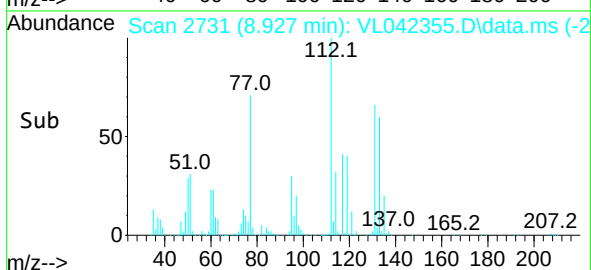
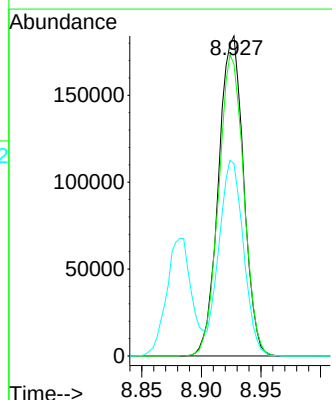
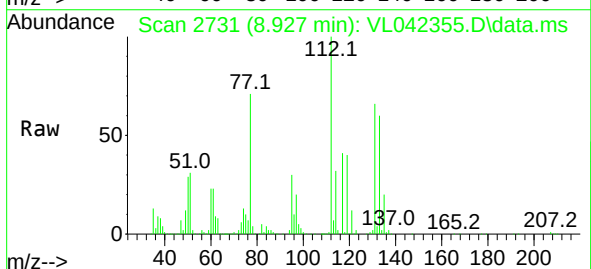
Manual Integrations
APPROVED

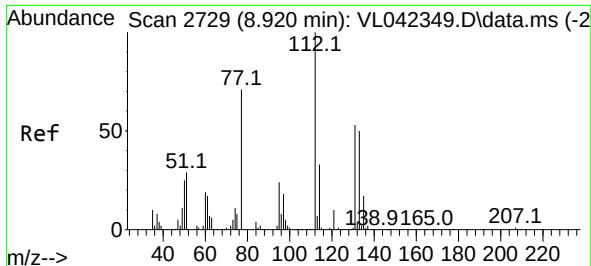
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

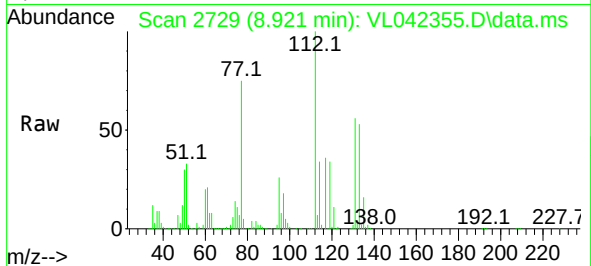
Tgt Ion:131 Resp: 268626
Ion Ratio Lower Upper
131 100
133 94.6 78.3 117.5
119 59.4 48.7 73.1





#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

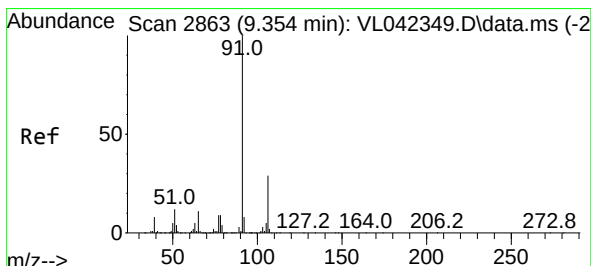
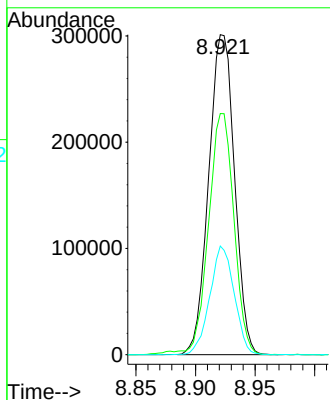
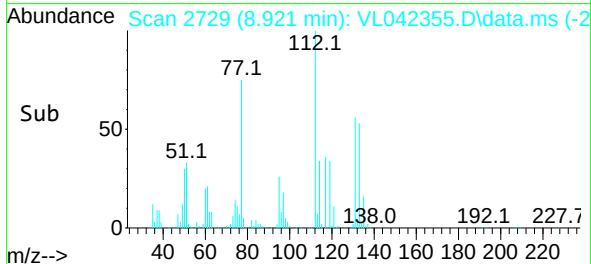
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



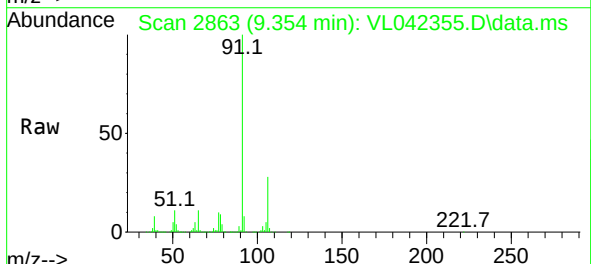
Tgt Ion:112 Resp: 45401
Ion Ratio Lower Upper
112 100
77 75.3 57.8 86.6
114 33.9 29.3 35.9

Manual Integrations
APPROVED

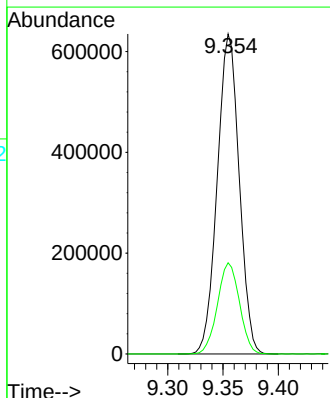
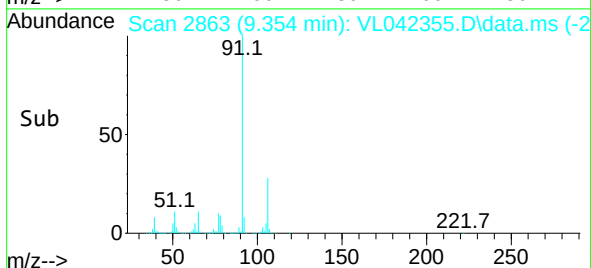
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

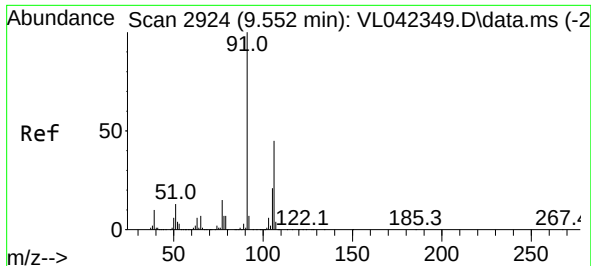


#58
Ethyl Benzene
Concen: 14.308 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54



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

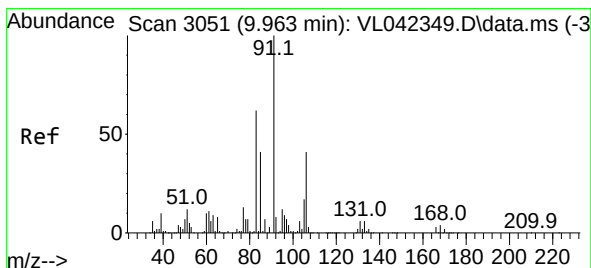
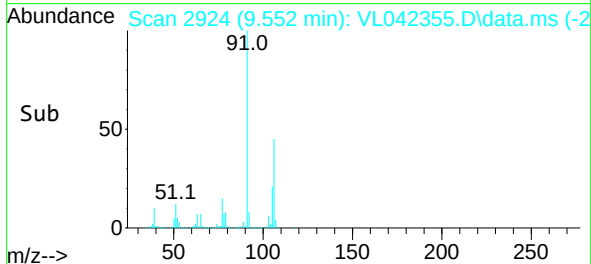
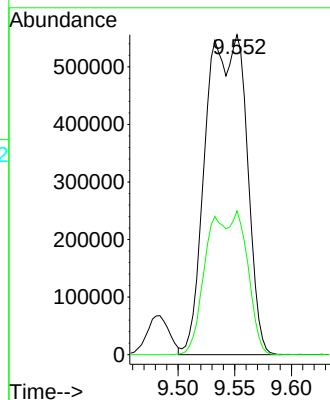
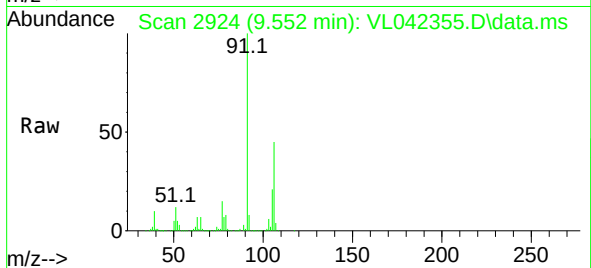
106 44.5 35.4 53.2

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

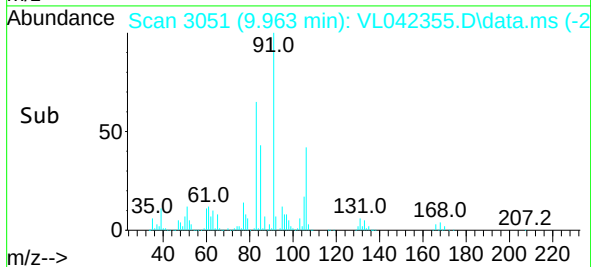
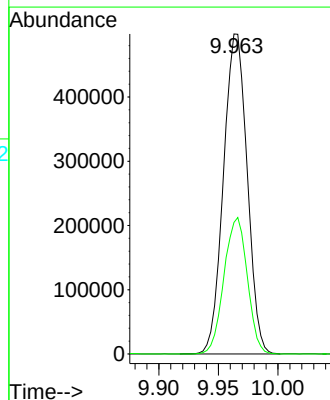
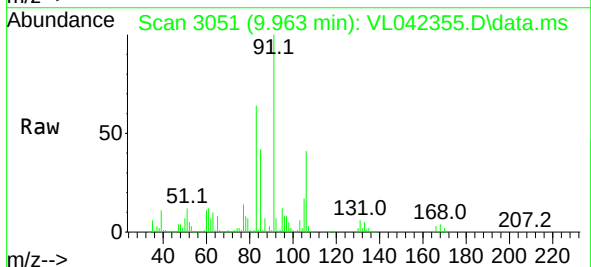
Acq: 17 Apr 2025 12:54

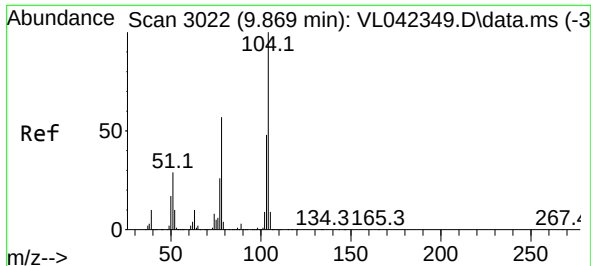
Tgt Ion: 91 Resp: 689246

Ion Ratio Lower Upper

91 100

106 41.9 21.1 63.4





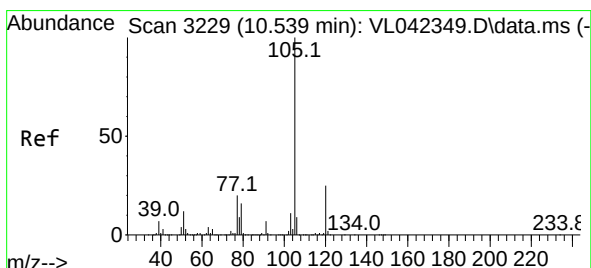
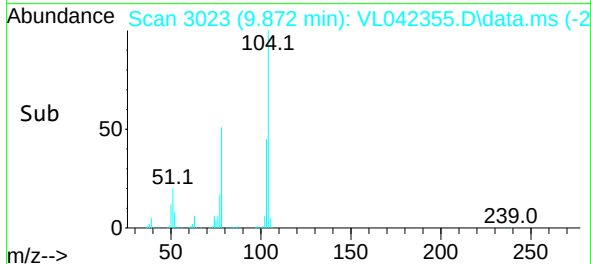
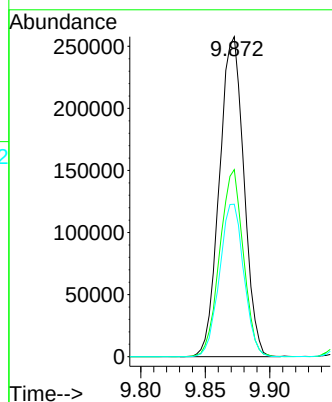
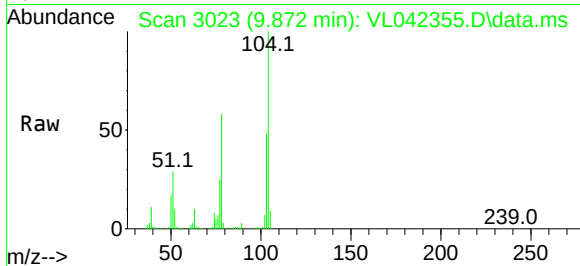
#61
Styrene
Concen: 14.347 ppbv
RT: 9.872 min Scan# 3022
Delta R.T. 0.004 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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

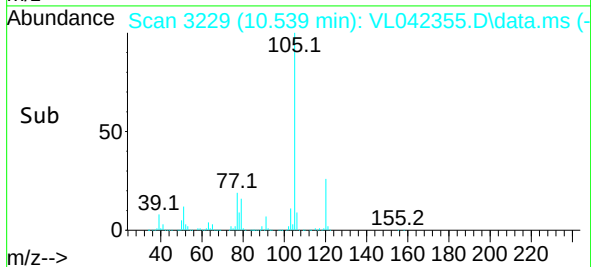
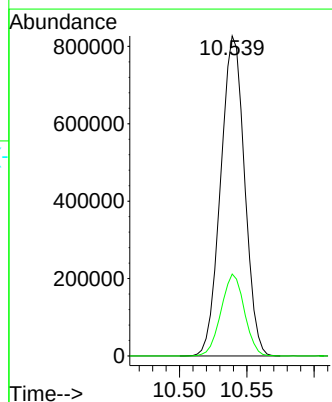
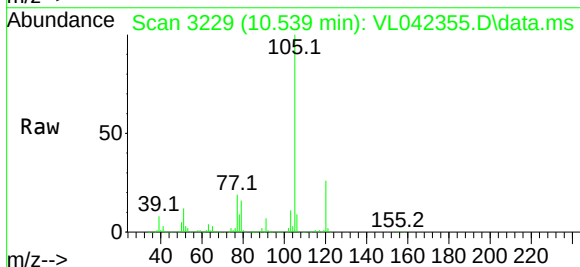
Manual Integrations
APPROVED

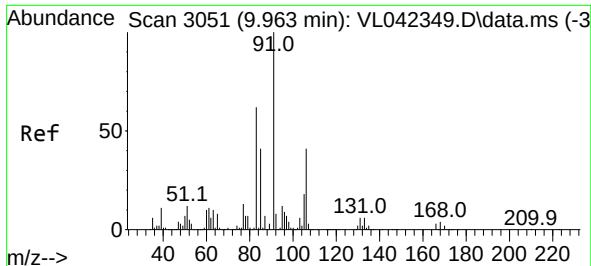
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

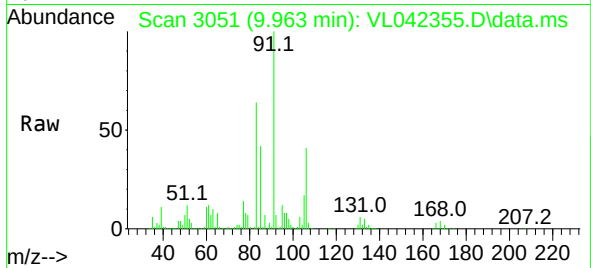
Tgt Ion:105 Resp: 1018968
Ion Ratio Lower Upper
105 100
120 25.0 19.8 29.8





#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

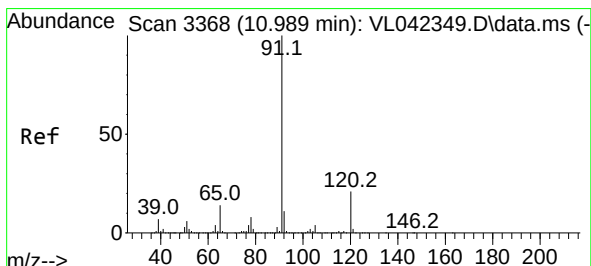
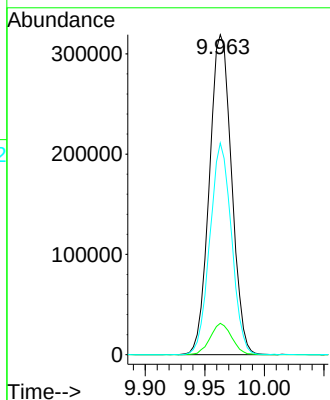
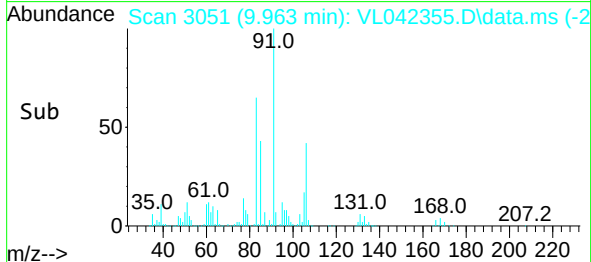
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



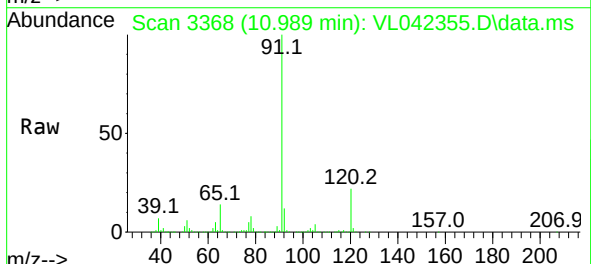
Tgt Ion: 83 Resp: 412898
Ion Ratio Lower Upper
83 100
131 9.5 4.5 13.7
85 64.5 32.4 97.0

Manual Integrations
APPROVED

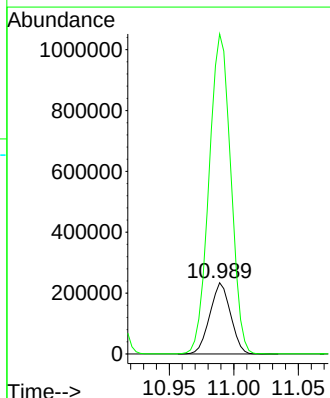
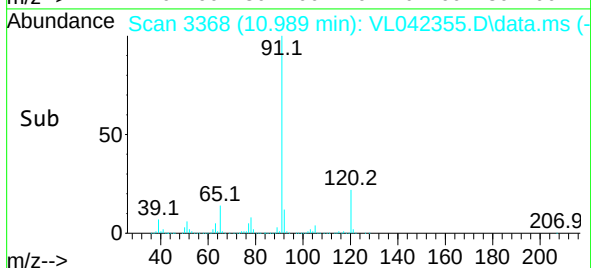
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

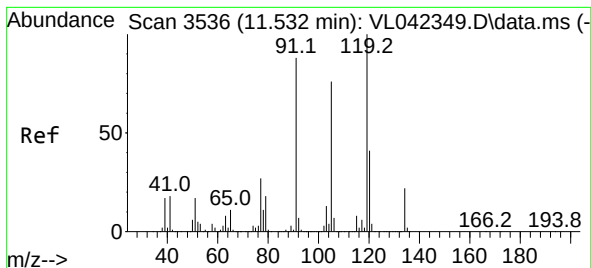


#64
n-propylbenzene
Concen: 14.255 ppbv
RT: 10.989 min Scan# 3368
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54



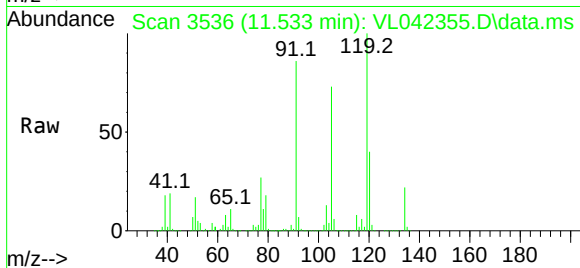
Tgt Ion:120 Resp: 260812
Ion Ratio Lower Upper
120 100
91 473.2 392.4 588.6





#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

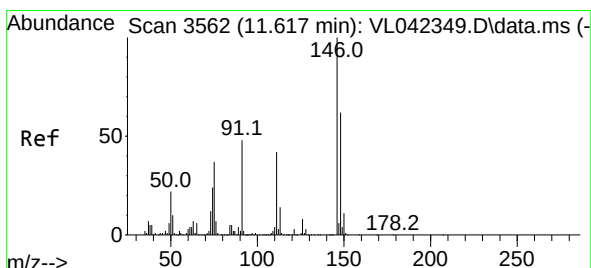
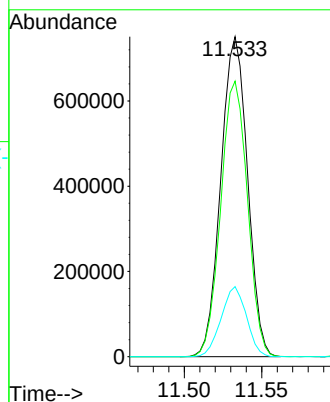
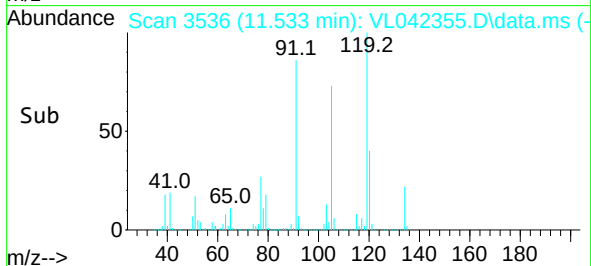
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



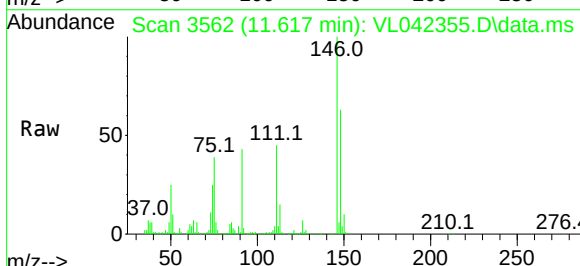
Tgt Ion: 119 Resp: 899720
Ion Ratio Lower Upper
119 100
91 86.2 74.6 111.8
134 20.8 18.8 28.2

Manual Integrations
APPROVED

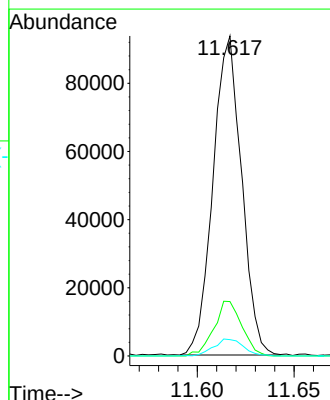
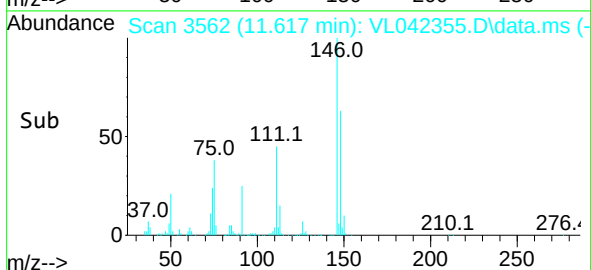
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

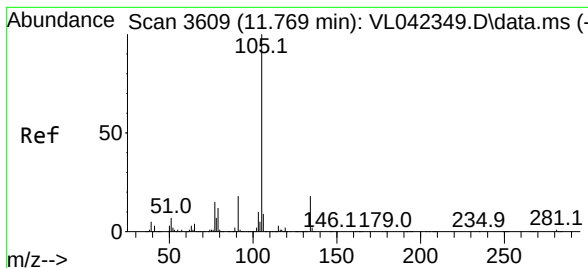


#66
Benzyl Chloride
Concen: 13.061 ppbv
RT: 11.617 min Scan# 3562
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54



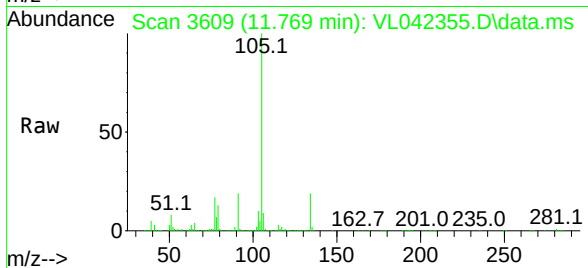
Tgt Ion: 91 Resp: 96016
Ion Ratio Lower Upper
91 100
126 16.8 11.8 17.6
128 5.5 4.5 6.7





#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

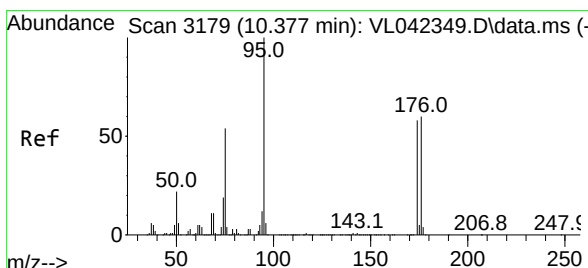
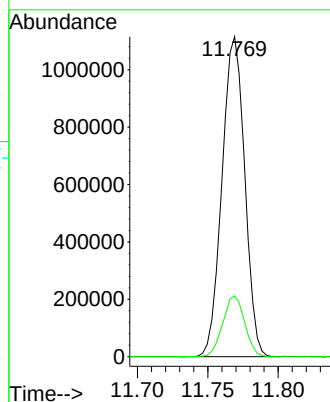
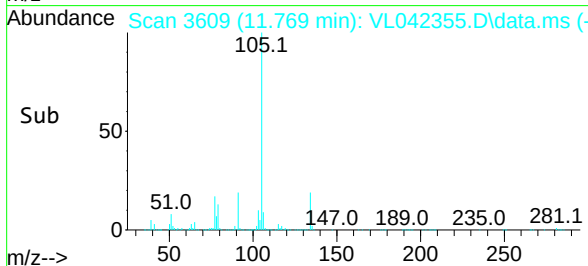
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



Tgt Ion:105 Resp: 125326
 Ion Ratio Lower Upper
 105 100
 134 18.4 14.6 21.8

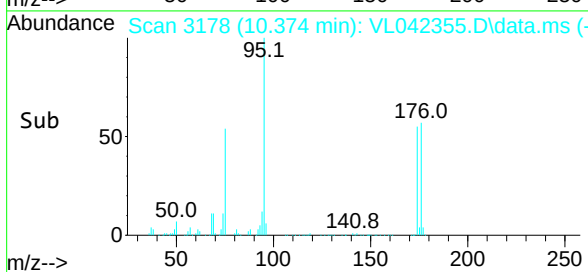
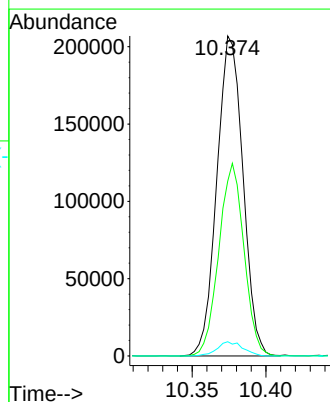
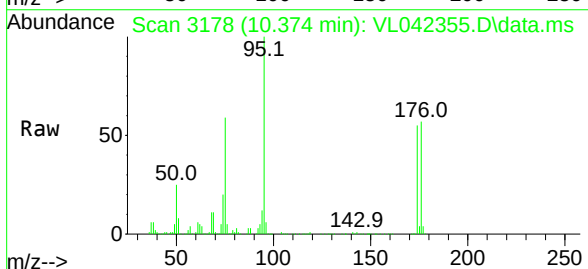
Manual Integrations APPROVED

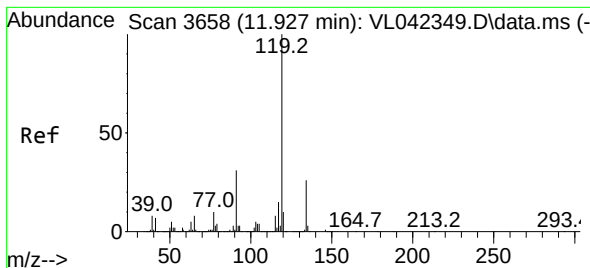
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#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

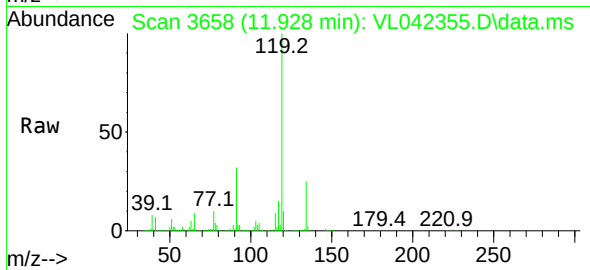
Tgt Ion: 95 Resp: 254437
 Ion Ratio Lower Upper
 95 100
 174 58.1 48.5 72.7
 175 4.4 3.7 5.5





#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

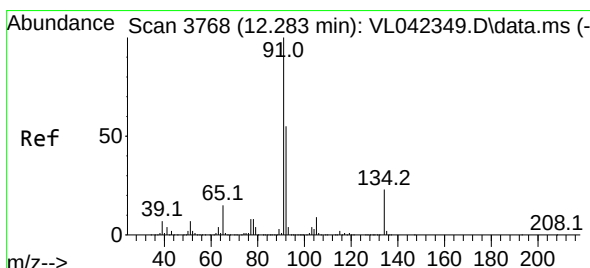
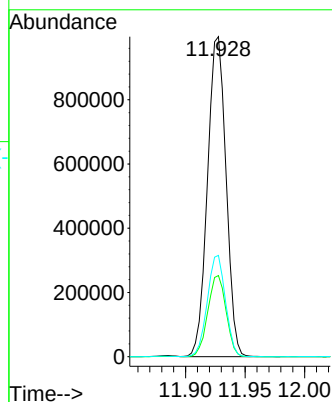
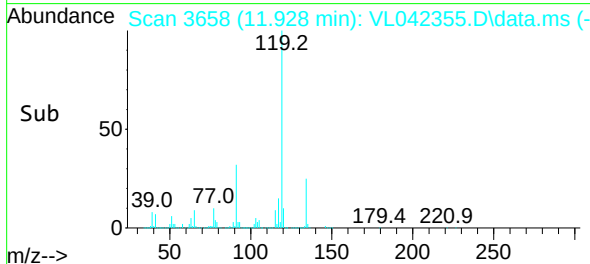
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



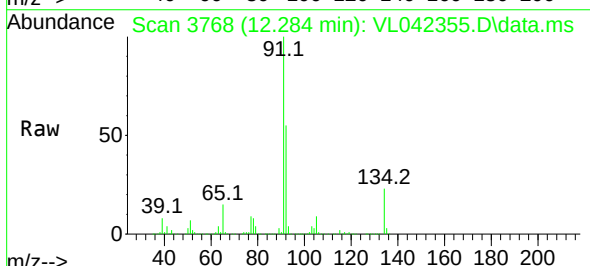
Tgt Ion:119 Resp: 1081850
Ion Ratio Lower Upper
119 100
134 25.0 20.0 30.0
91 31.1 24.4 36.6

Manual Integrations
APPROVED

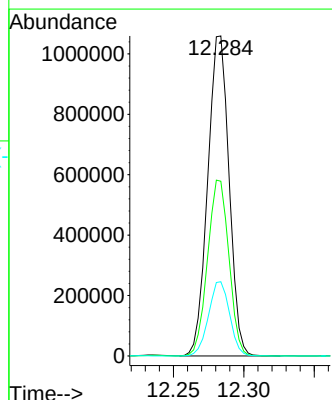
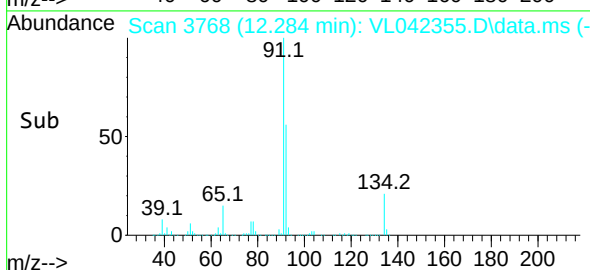
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

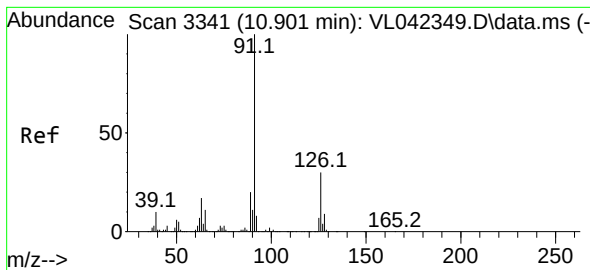


#70
n-Butylbenzene
Concen: 13.266 ppbv
RT: 12.284 min Scan# 3768
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54



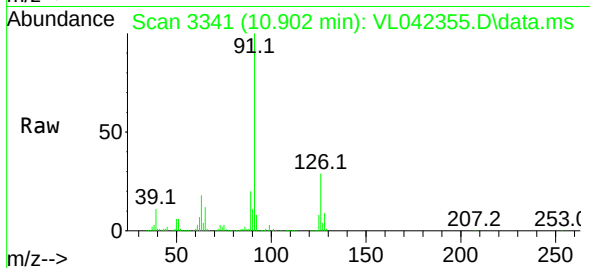
Tgt Ion: 91 Resp: 1117042
Ion Ratio Lower Upper
91 100
92 55.3 44.2 66.4
134 23.0 18.2 27.4





#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

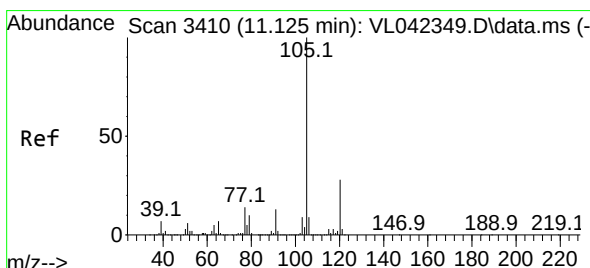
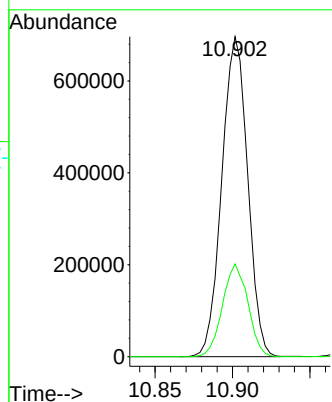
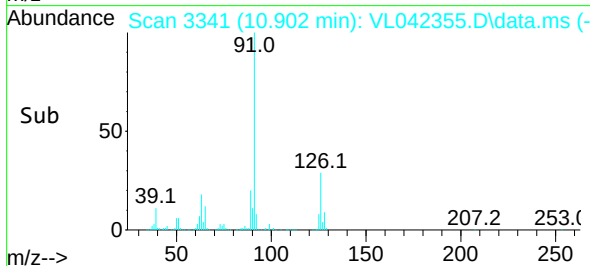
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015



Tgt Ion: 91 Resp: 806728
Ion Ratio Lower Upper
91 100
126 28.4 11.4 45.4

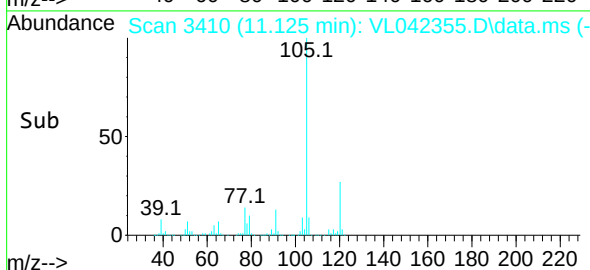
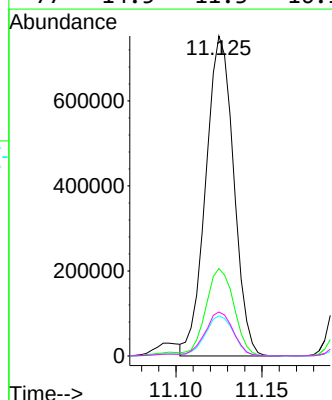
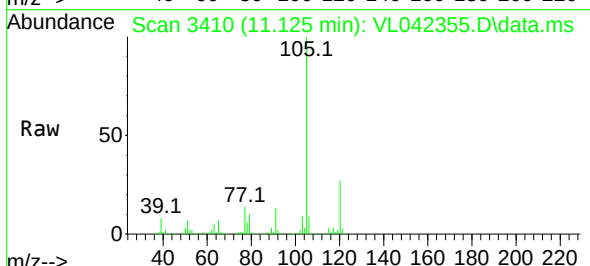
Manual Integrations
APPROVED

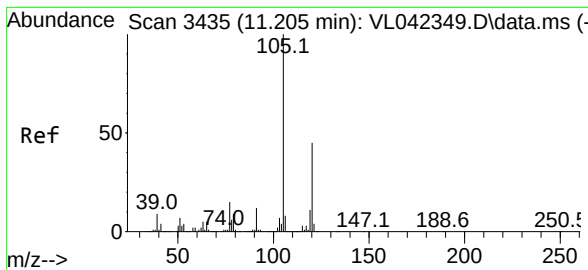
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

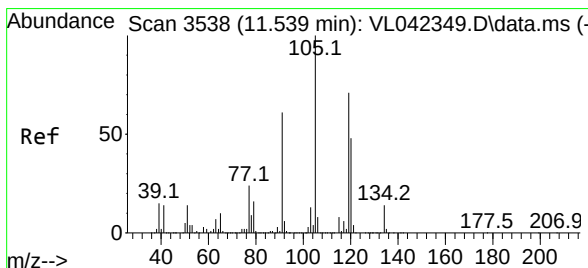
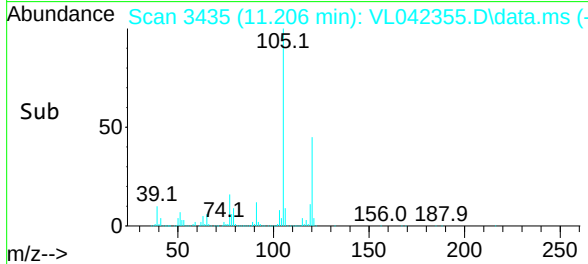
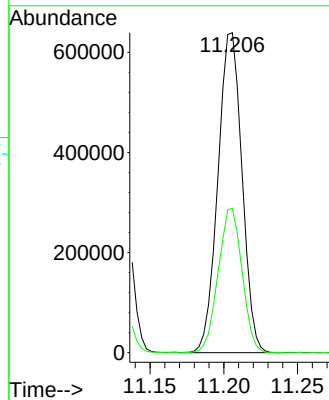
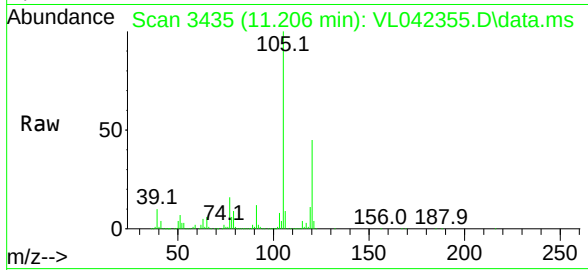
120 45.1 35.6 53.4

Manual Integrations

APPROVED

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

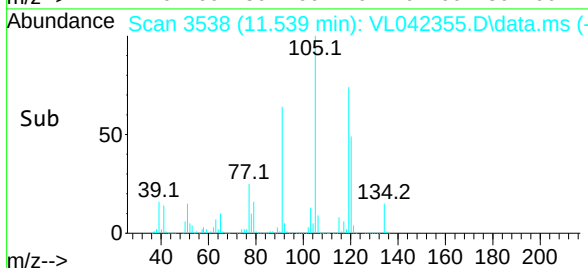
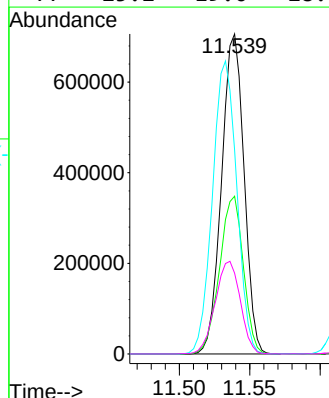
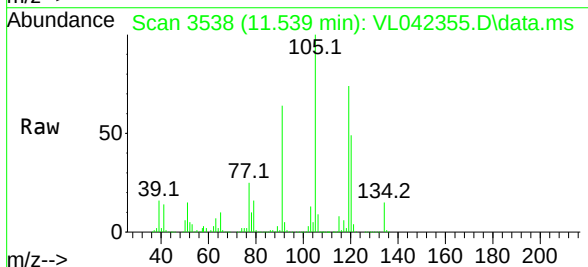
Ion Ratio Lower Upper

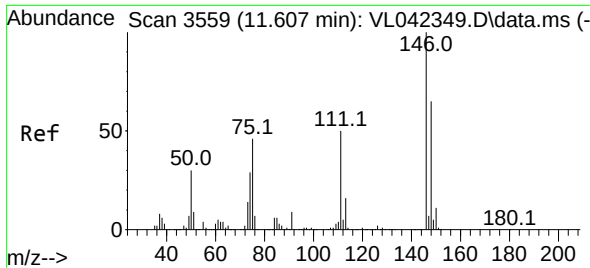
105 100

120 49.3 38.1 57.1

91 63.7 48.8 73.2

77 25.2 19.0 28.4





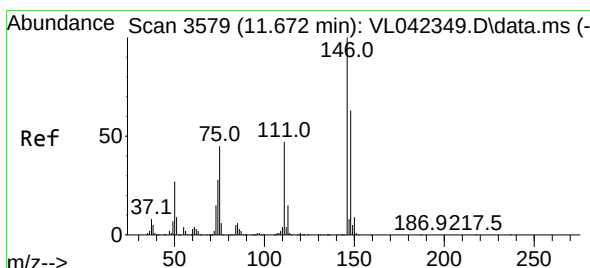
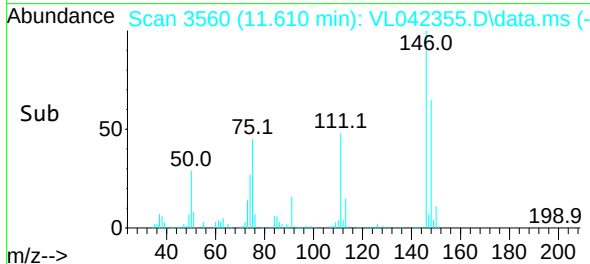
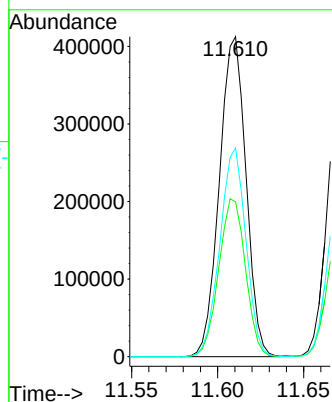
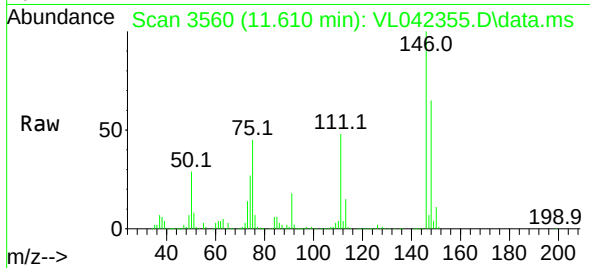
#75
1,3-Dichlorobenzene
Concen: 13.670 ppbv
RT: 11.610 min Scan# 3559
Delta R.T. 0.004 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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

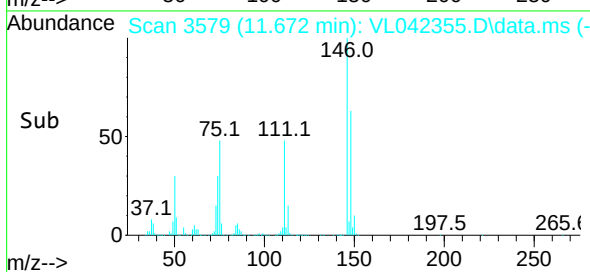
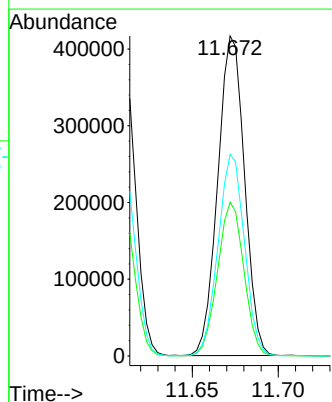
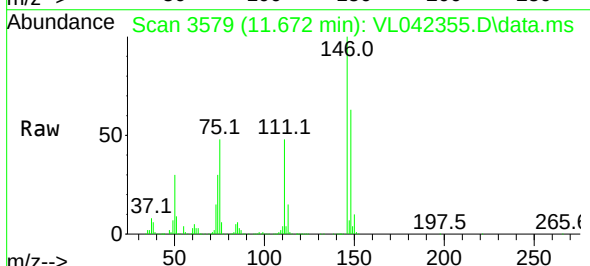
Manual Integrations
APPROVED

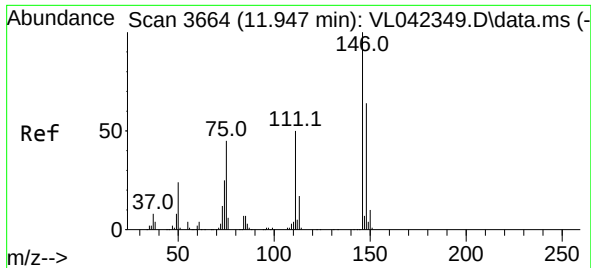
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

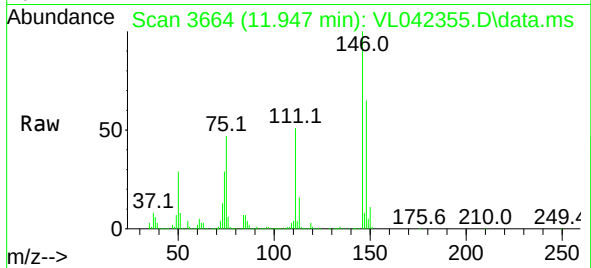
Tgt Ion:146 Resp: 450662
Ion Ratio Lower Upper
146 100
111 47.4 24.2 72.6
148 62.6 32.1 96.5





#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

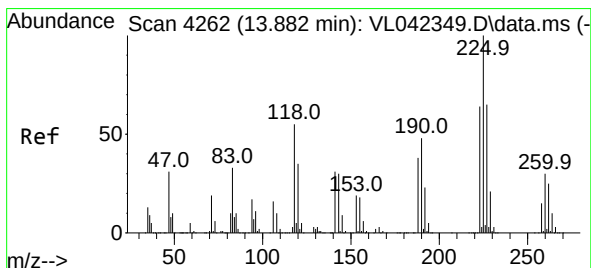
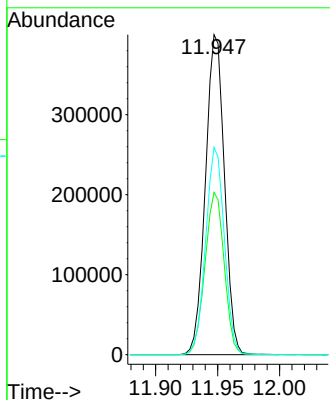
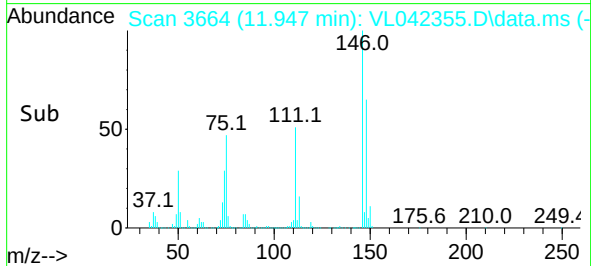
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



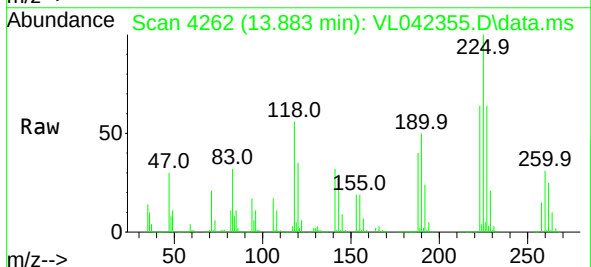
Tgt Ion:146 Resp: 427372
Ion Ratio Lower Upper
146 100
111 51.3 25.3 75.9
148 63.8 31.5 94.5

Manual Integrations
APPROVED

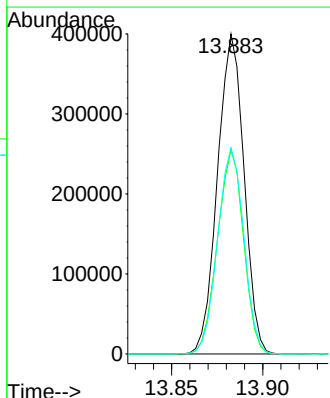
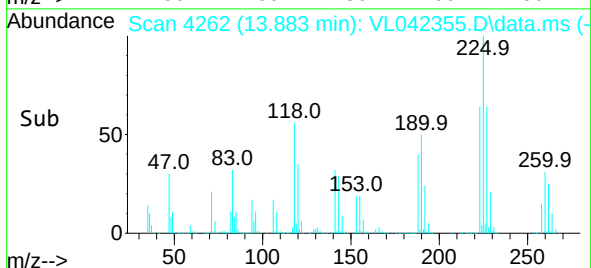
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

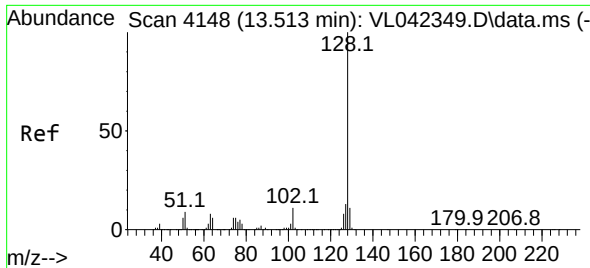


#78
Hexachloro-1,3-Butadiene
Concen: 12.679 ppbv
RT: 13.883 min Scan# 4262
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54



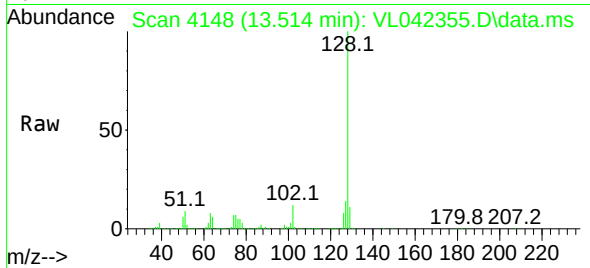
Tgt Ion:225 Resp: 404441
Ion Ratio Lower Upper
225 100
223 62.8 50.3 75.5
227 63.8 51.5 77.3





#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

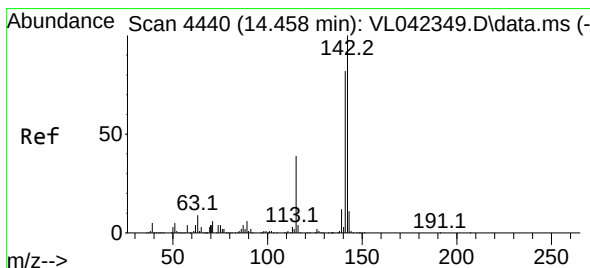
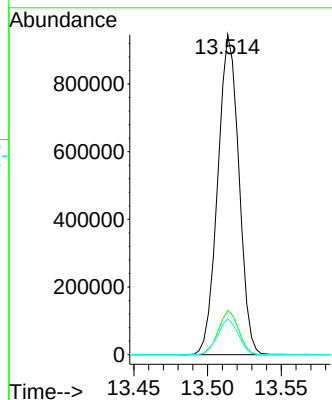
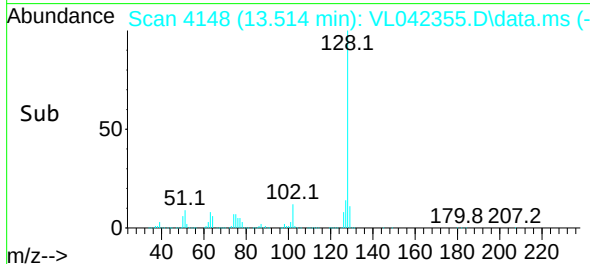
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015



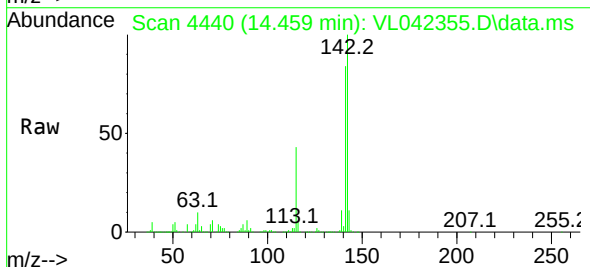
Tgt Ion:128 Resp: 944085
Ion Ratio Lower Upper
128 100
127 13.9 10.6 15.8
129 11.3 8.6 12.8

Manual Integrations
APPROVED

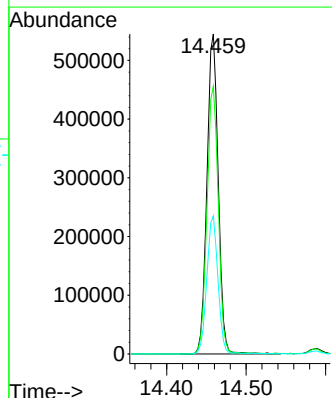
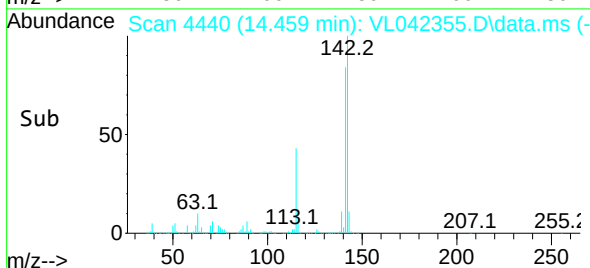
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

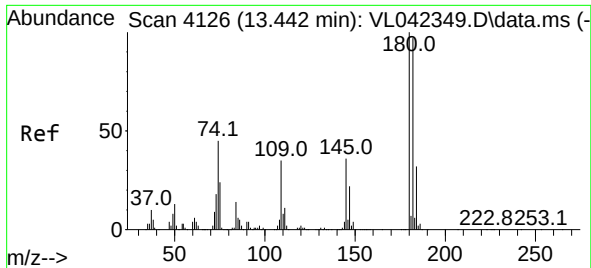


#80
Naphthalene,2-methyl-
Concen: 12.686 ppbv
RT: 14.459 min Scan# 4440
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54



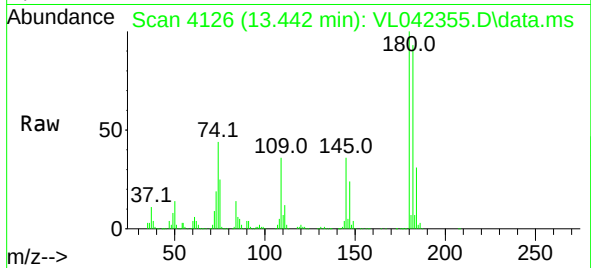
Tgt Ion:142 Resp: 540339
Ion Ratio Lower Upper
142 100
141 84.3 66.8 100.2
115 43.0 33.4 50.2





#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

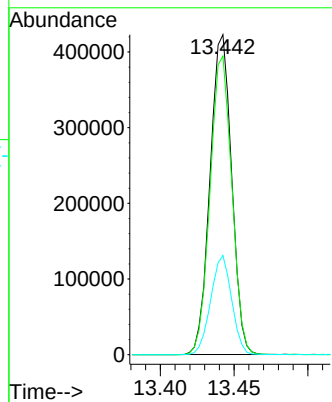
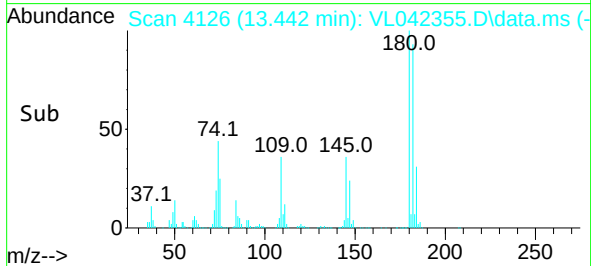
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015



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 :
 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 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-Trichlorotrifluoro...	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

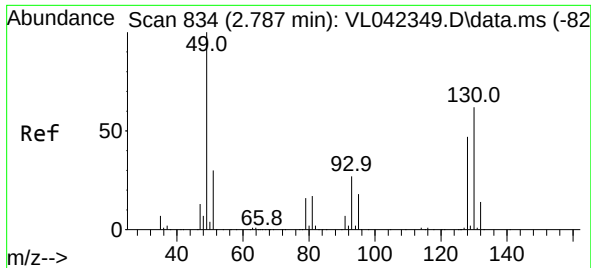
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

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

Response via : Initial Calibration

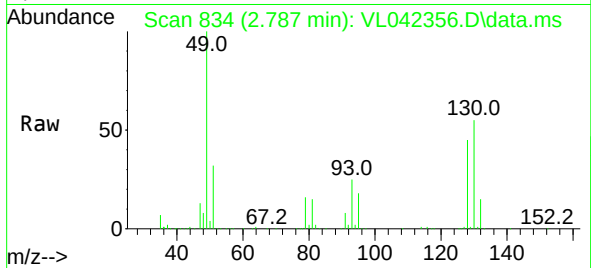
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.599	75	200144	10.148	ppbv	88
47) 1,1,2-Trichloroethane	6.583	97	135575	10.202	ppbv	95
48) Dibromochloromethane	7.389	129	237206	10.103	ppbv	100
49) Bromoform	9.483	173	205630	10.016	ppbv	99
50) 4-Methyl-2-Pentanone	5.748	43	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

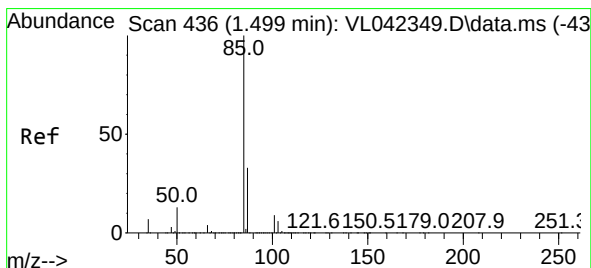
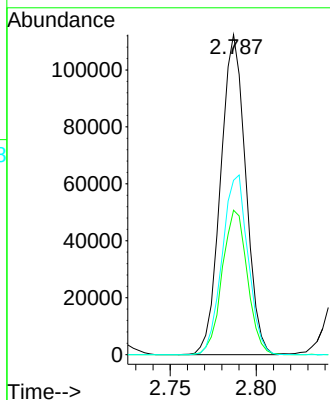
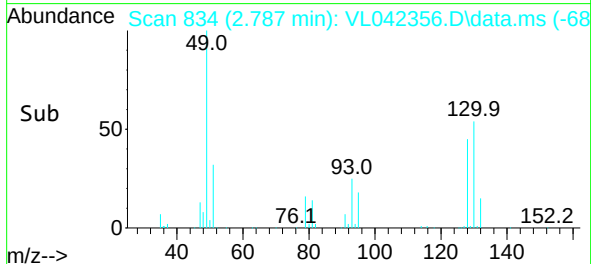
Instrument : MSVOA_L
ClientSampleId : ICVVL041725



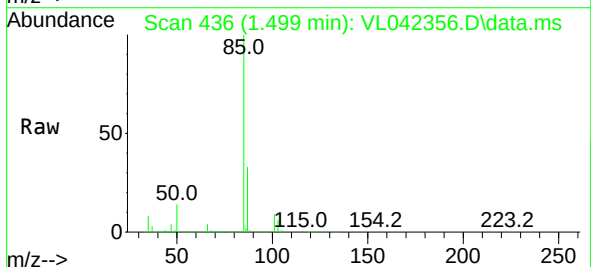
Tgt Ion: 49 Resp: 113992
Ion Ratio Lower Upper
49 100
128 45.5 22.8 68.4
130 57.8 29.3 88.0

Manual Integrations
APPROVED

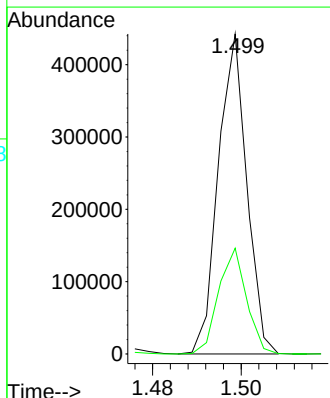
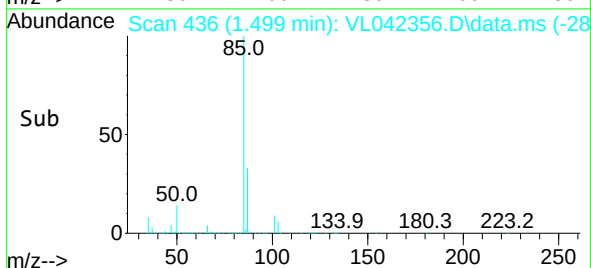
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

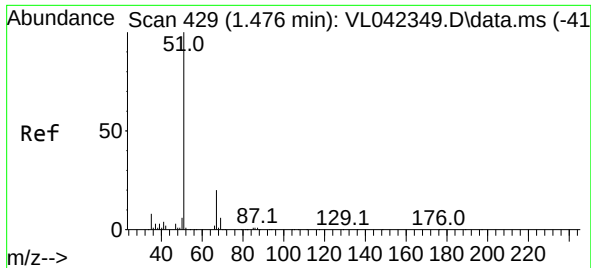


#2
Dichlorodifluoromethane
Concen: 9.812 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43



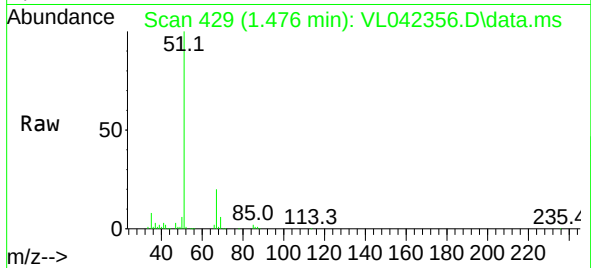
Tgt Ion: 85 Resp: 197623
Ion Ratio Lower Upper
85 100
87 33.1 26.6 39.8





#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

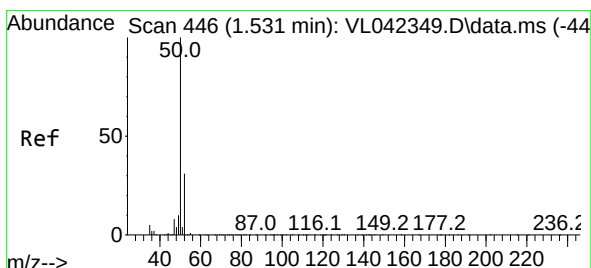
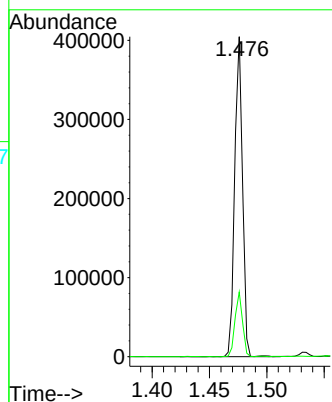
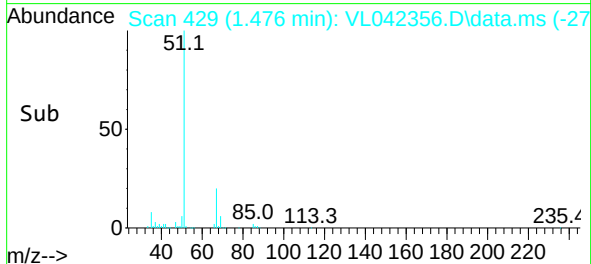
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725



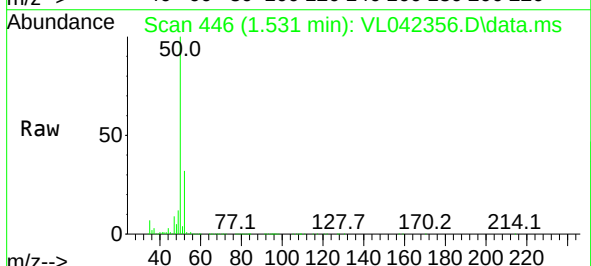
Tgt Ion: 51 Resp: 191010
Ion Ratio Lower Upper
51 100
67 19.6 16.2 24.4

Manual Integrations
APPROVED

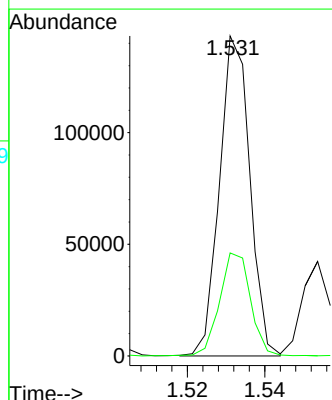
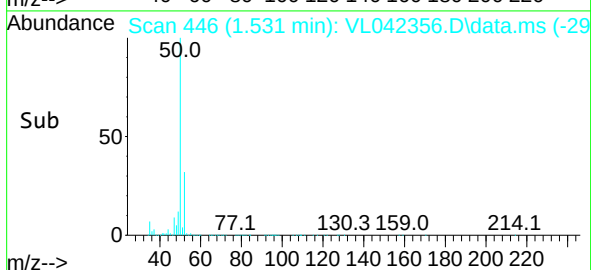
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

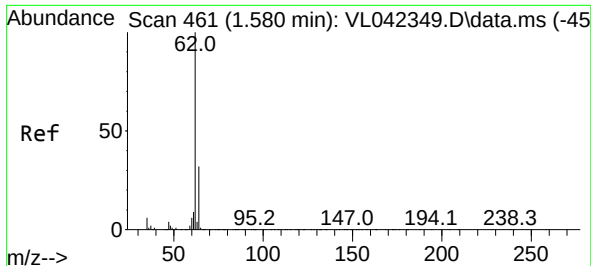


#4
Chloromethane
Concen: 9.796 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43



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

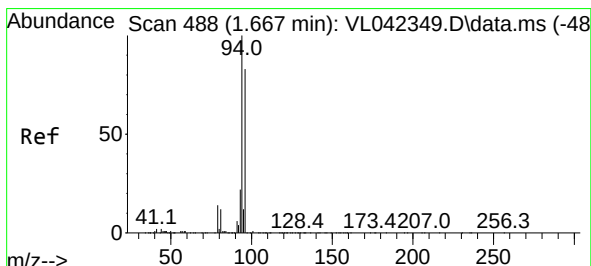
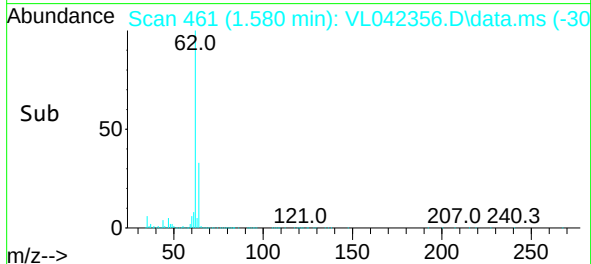
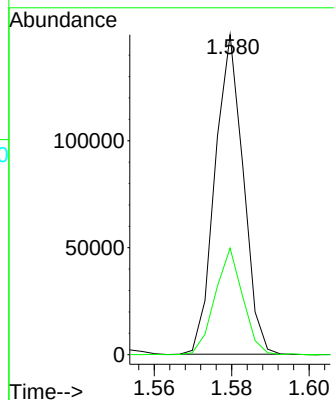
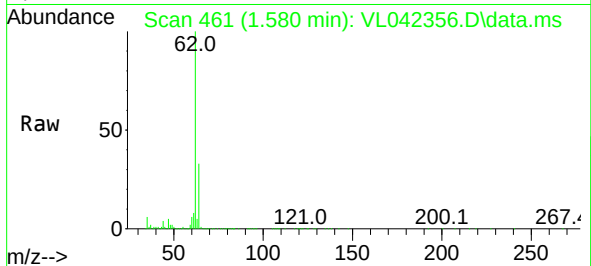
ClientSampleId :

ICVVL041725

Tgt Ion: 62 Resp: 75628
 Ion Ratio Lower Upper
 62 100
 64 33.3 25.4 38.0

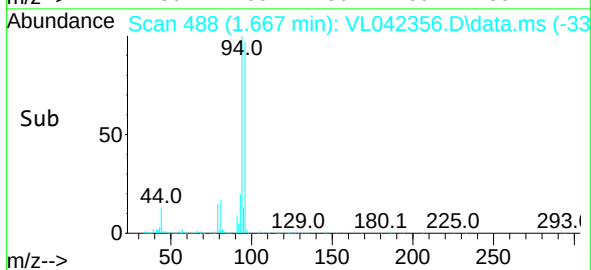
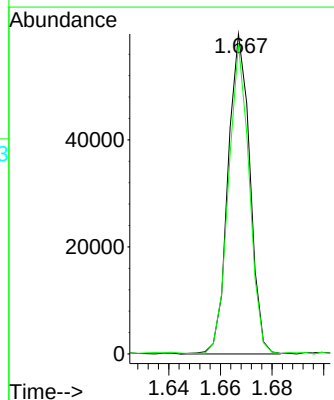
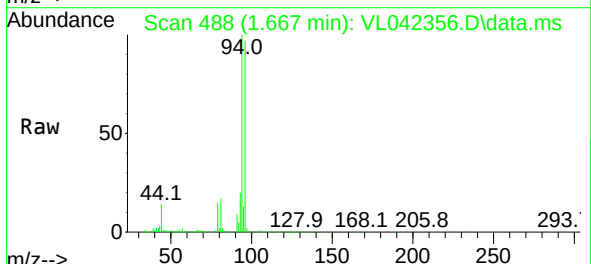
Manual Integrations
 APPROVED

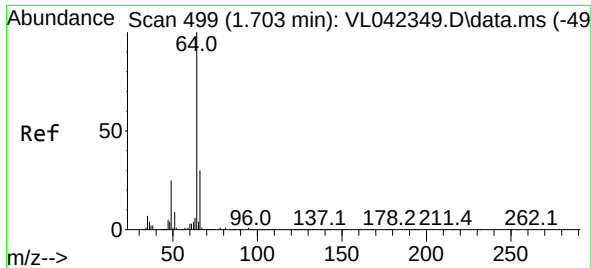
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#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

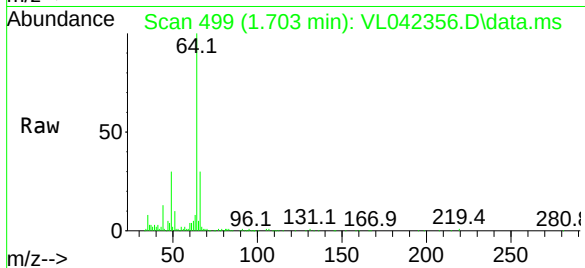
Tgt Ion: 94 Resp: 35115
 Ion Ratio Lower Upper
 94 100
 96 96.8 66.2 99.2





#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

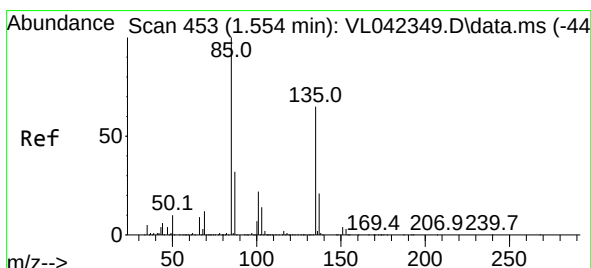
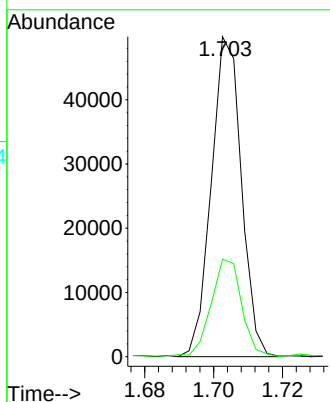
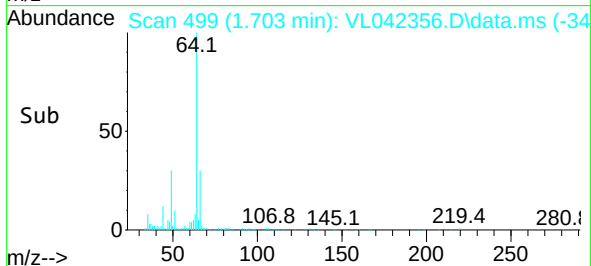
Instrument : MSVOA_L
ClientSampleId : ICVVL041725



Tgt Ion: 64 Resp: 30158
Ion Ratio Lower Upper
64 100
66 30.4 24.6 37.0

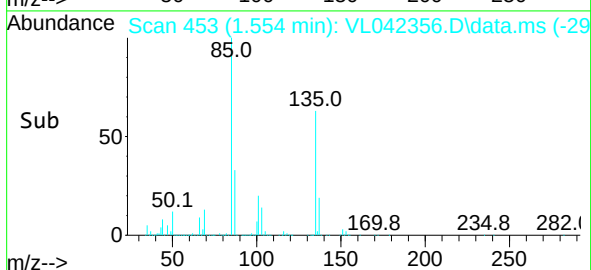
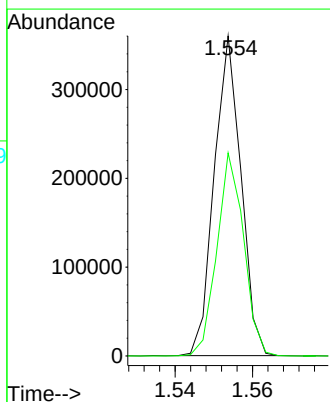
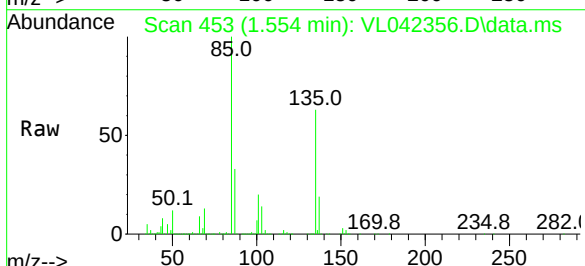
Manual Integrations
APPROVED

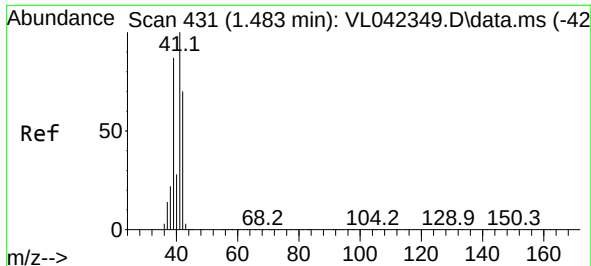
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

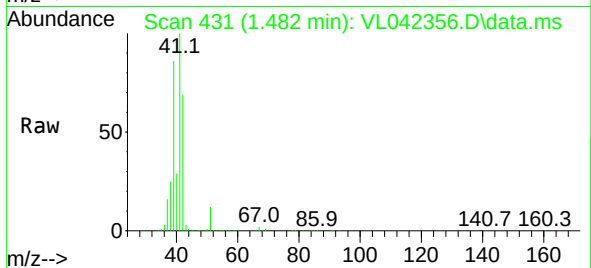
Acq: 17 Apr 2025 13:43

Instrument :

MSVOA_L

ClientSampleId :

ICVVL041725



Tgt Ion: 41 Resp: 84630

Ion Ratio Lower Upper

41 100

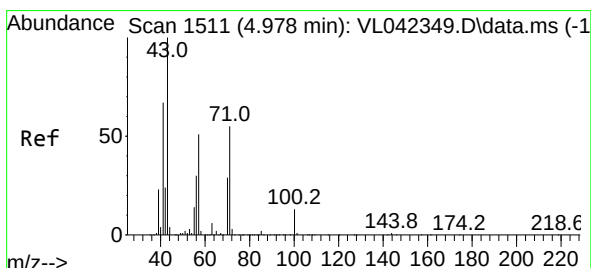
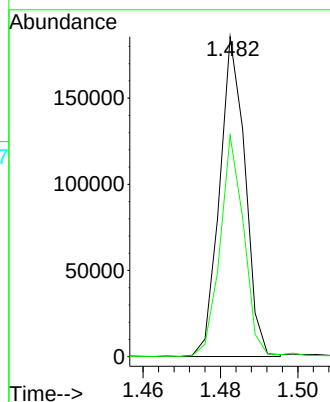
42 65.8 56.2 84.4

Manual Integrations

APPROVED

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

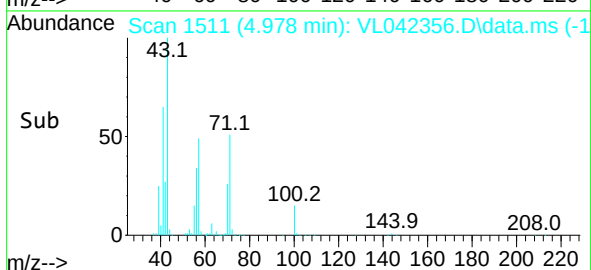
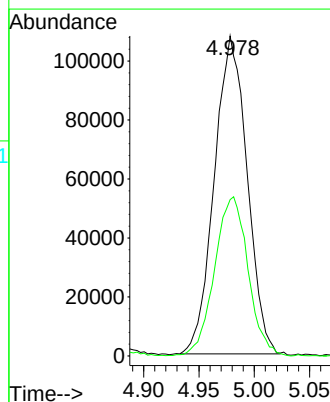
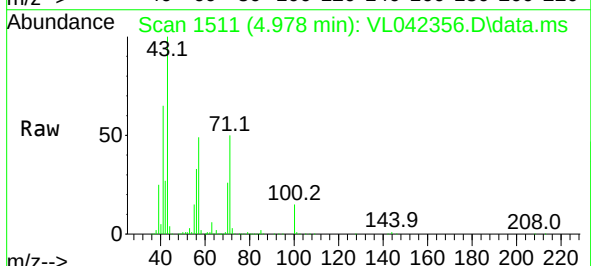
Acq: 17 Apr 2025 13:43

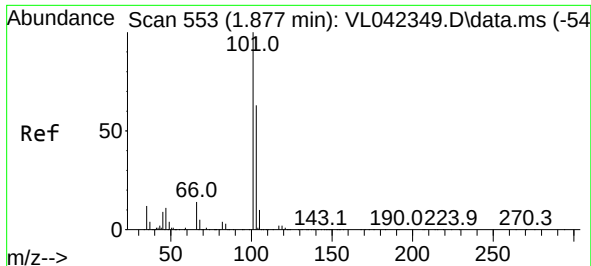
Tgt Ion: 43 Resp: 221840

Ion Ratio Lower Upper

43 100

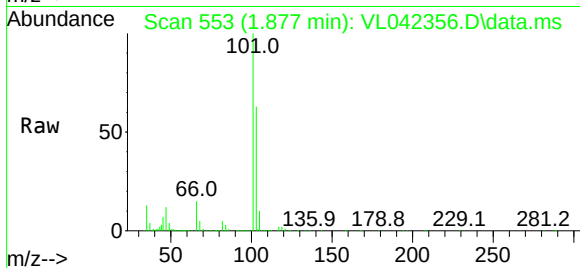
57 51.4 39.9 59.9





#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

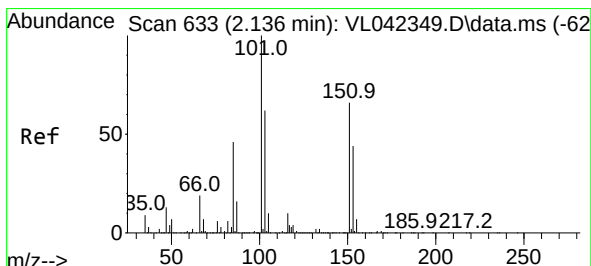
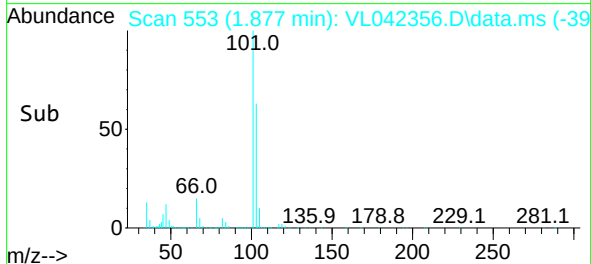
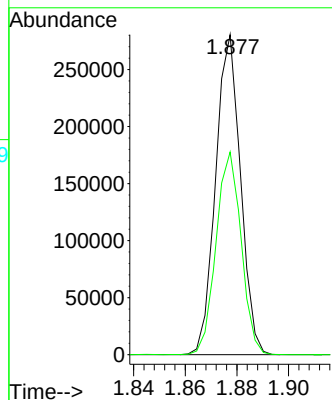
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725



Tgt Ion:101 Resp: 18782
Ion Ratio Lower Upper
101 100
103 63.3 50.1 75.1

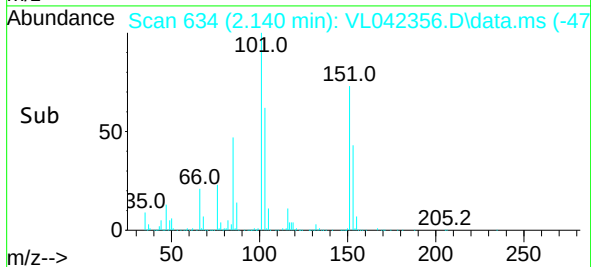
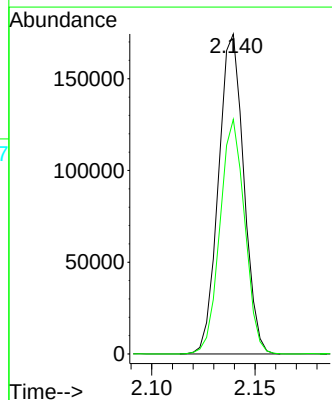
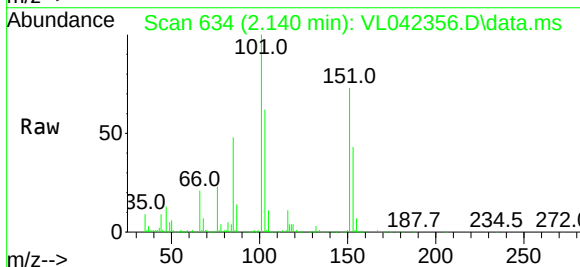
Manual Integrations
APPROVED

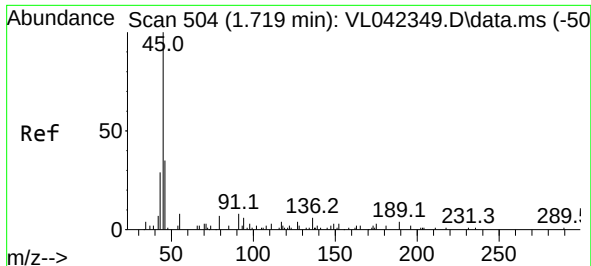
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

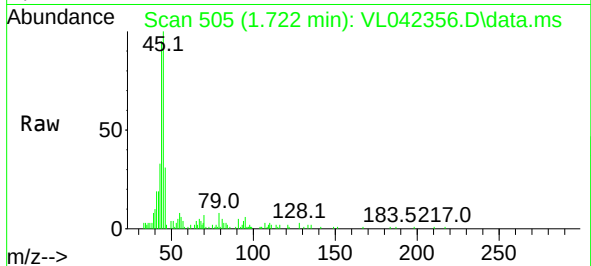
Tgt Ion:101 Resp: 148485
Ion Ratio Lower Upper
101 100
151 71.7 57.0 85.6





#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

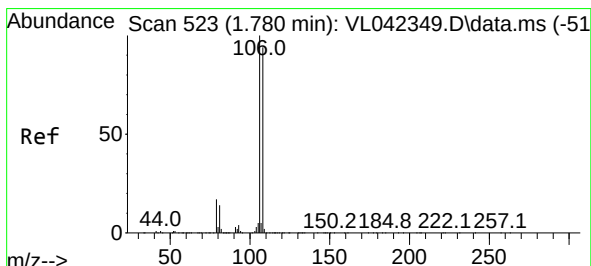
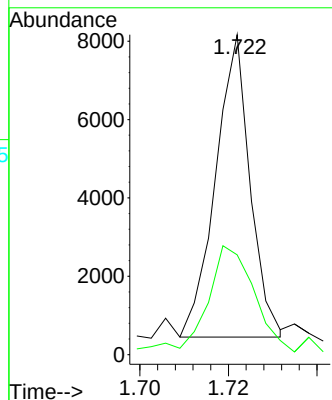
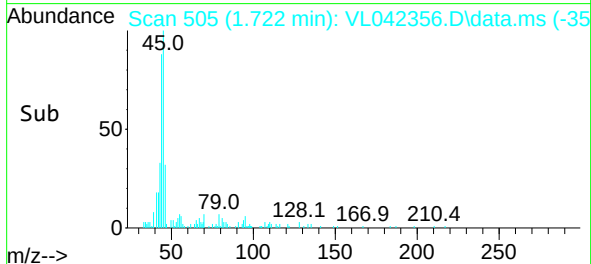
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725



Tgt Ion: 45 Resp: 417
Ion Ratio Lower Upper
45 100
46 57.0 21.9 87.7

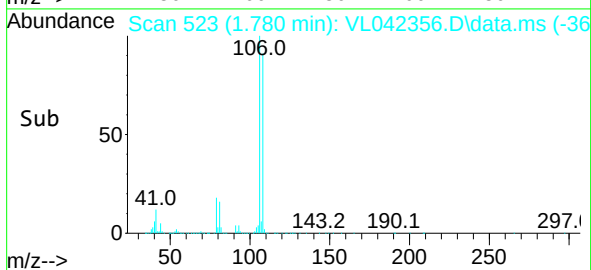
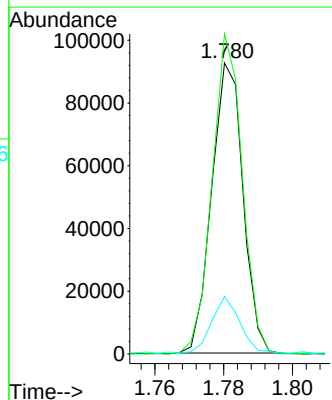
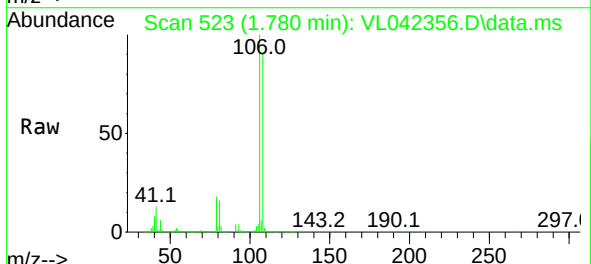
Manual Integrations
APPROVED

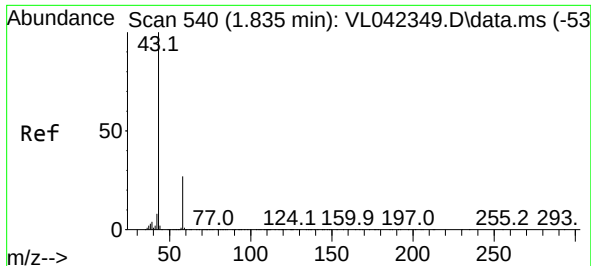
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

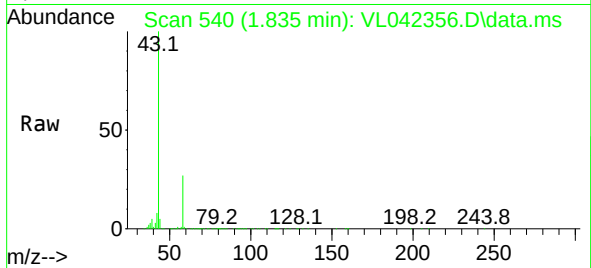
Tgt Ion:108 Resp: 58320
Ion Ratio Lower Upper
108 100
106 107.1 85.9 128.9
79 18.4 13.9 20.9





#15
Acetone
Concen: 8.505 ppbv
RT: 1.835 min Scan# 54
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

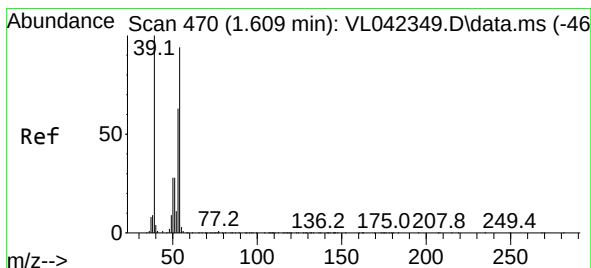
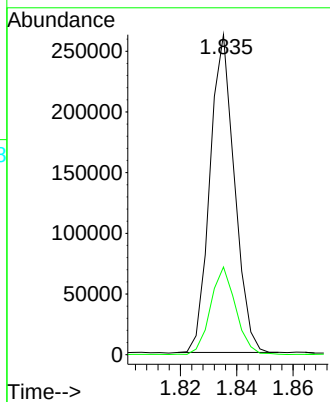
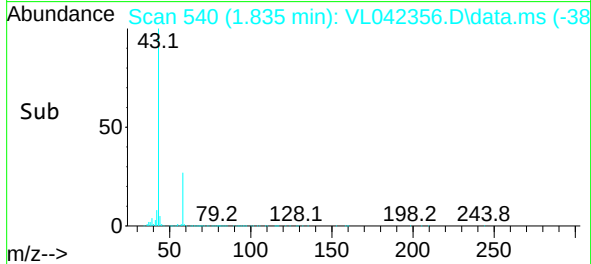
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725



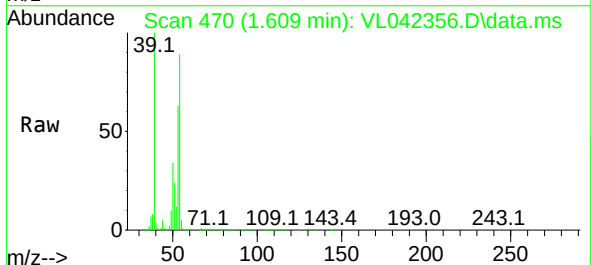
Tgt Ion: 43 Resp: 158708
Ion Ratio Lower Upper
43 100
58 28.0 22.4 33.6

Manual Integrations
APPROVED

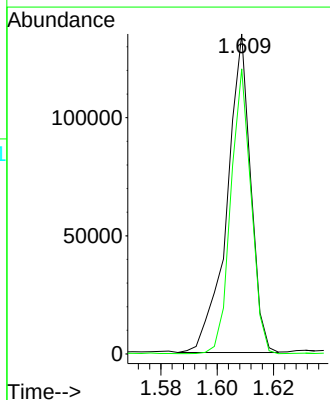
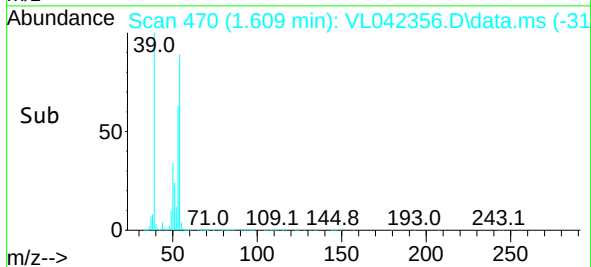
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

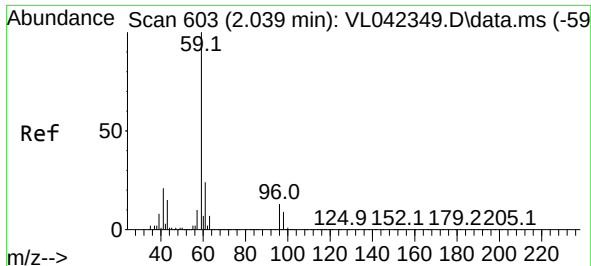


#16
1,3-Butadiene
Concen: 8.829 ppbv
RT: 1.609 min Scan# 470
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43



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

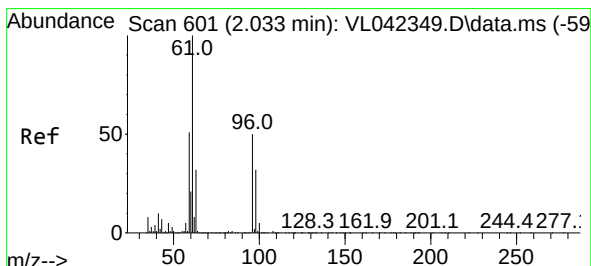
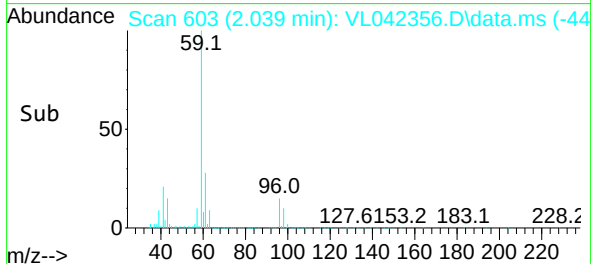
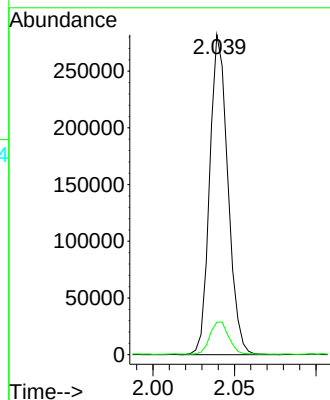
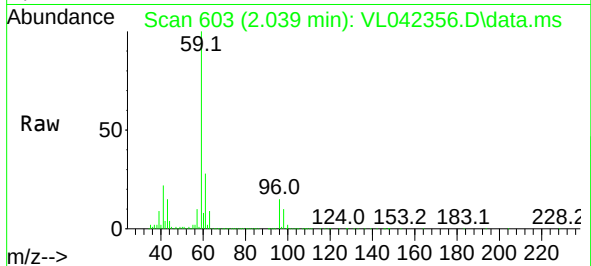
57 10.6 8.7 13.1

Manual Integrations

APPROVED

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

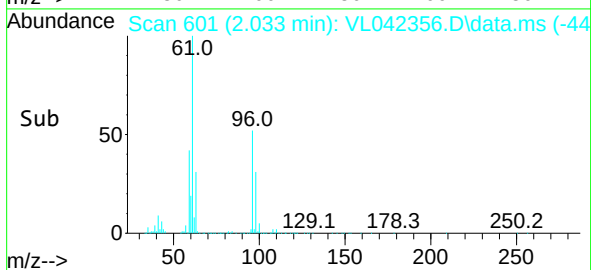
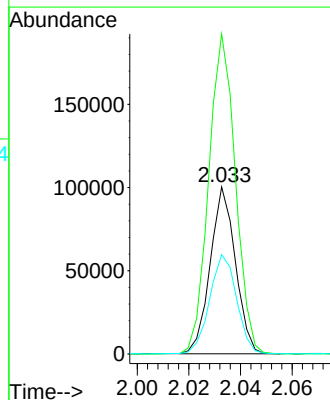
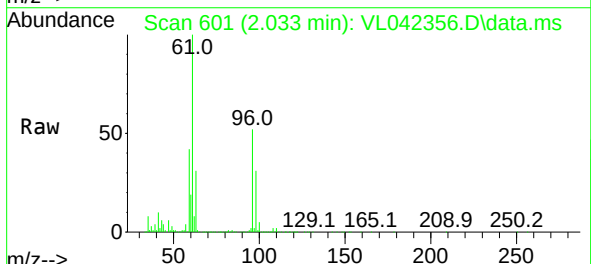
Tgt Ion: 96 Resp: 67940

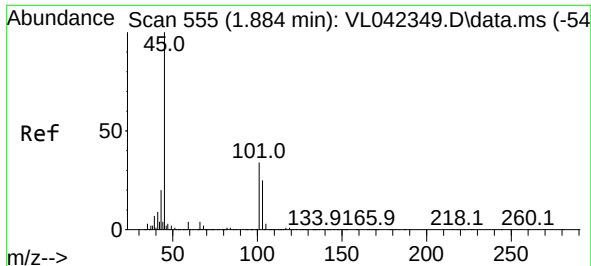
Ion Ratio Lower Upper

96 100

61 191.6 160.2 240.2

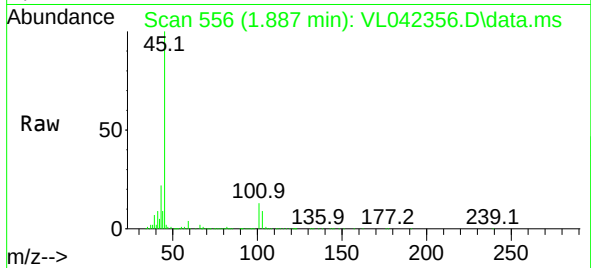
98 59.4 51.0 76.4





#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

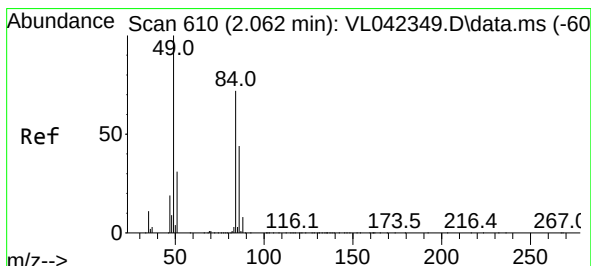
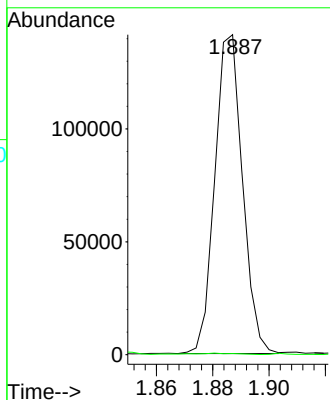
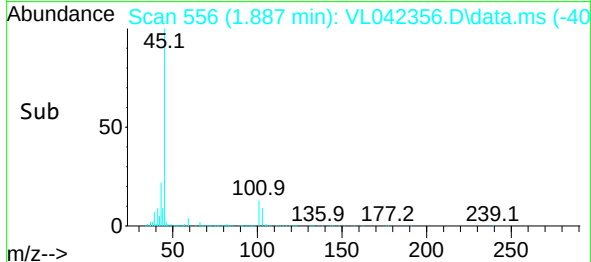
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725



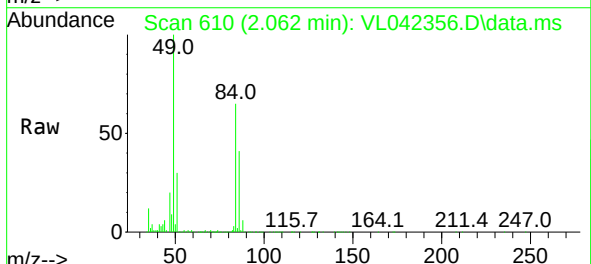
Tgt Ion: 45 Resp: 9636
Ion Ratio Lower Upper
45 100
58 46.1 34.5 51.7

Manual Integrations
APPROVED

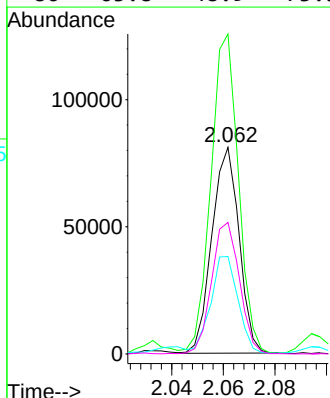
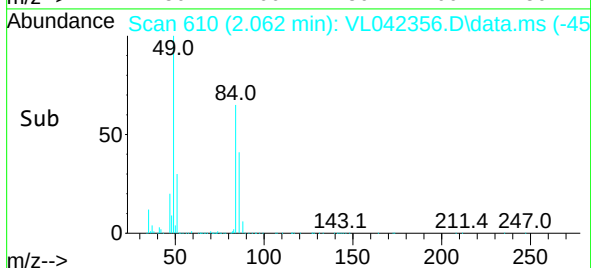
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

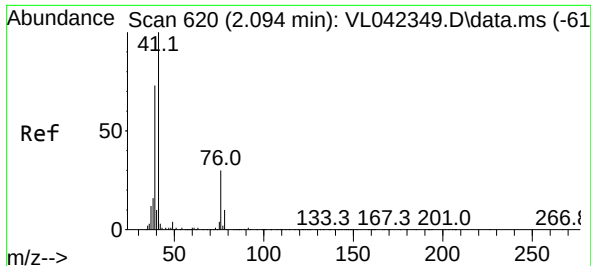


#20
Methylene Chloride
Concen: 8.101 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43



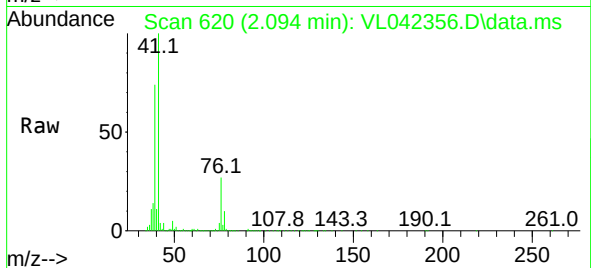
Tgt Ion: 84 Resp: 59203
Ion Ratio Lower Upper
84 100
49 155.3 111.6 167.4
51 47.0 35.1 52.7
86 63.8 48.9 73.3





#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

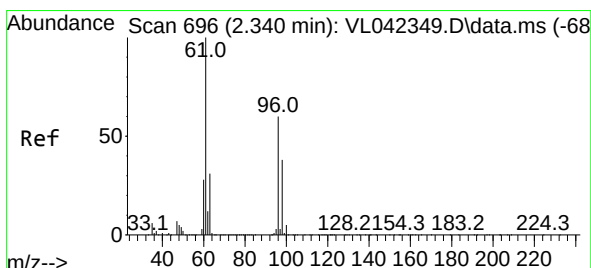
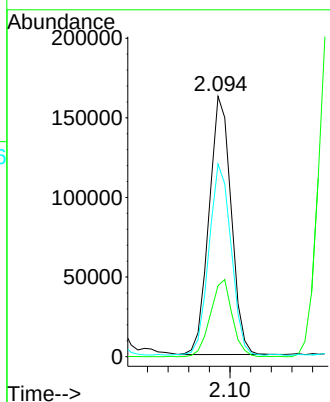
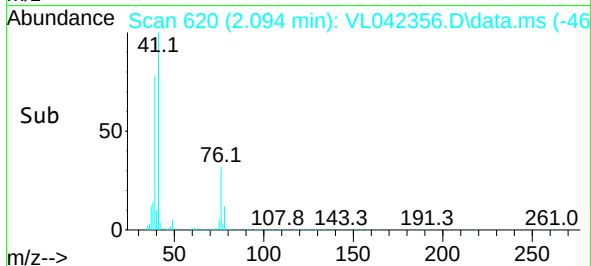
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL041725



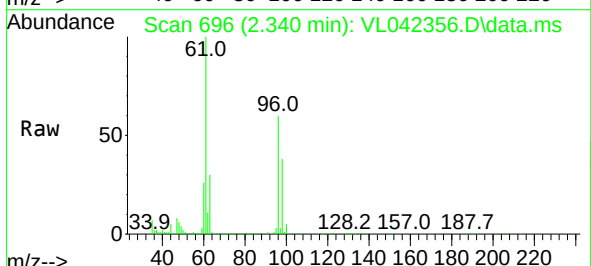
Tgt Ion: 41 Resp: 120704
 Ion Ratio Lower Upper
 41 100
 76 29.5 24.8 37.2
 39 74.5 60.6 90.8

Manual Integrations
 APPROVED

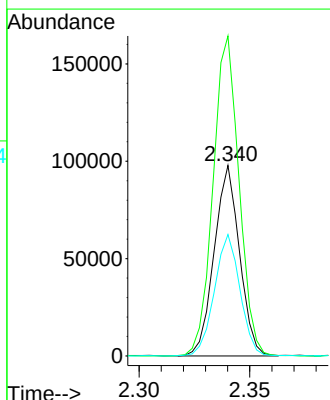
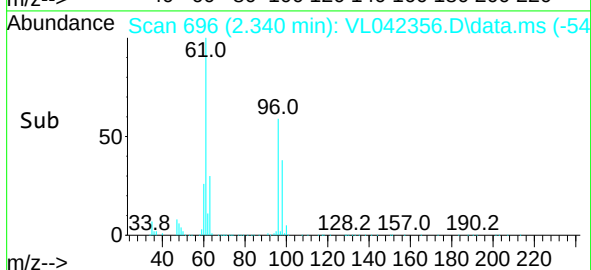
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

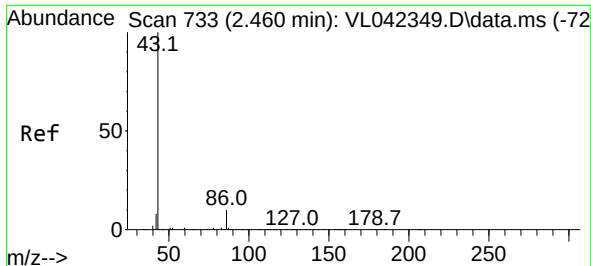


#22
 trans-1,2-Dichloroethene
 Concen: 9.373 ppbv
 RT: 2.340 min Scan# 696
 Delta R.T. -0.000 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43



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 :

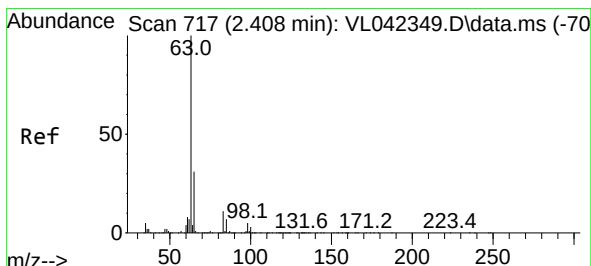
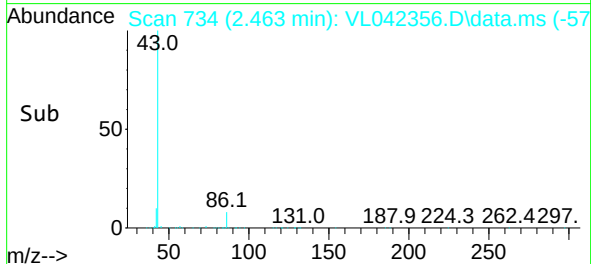
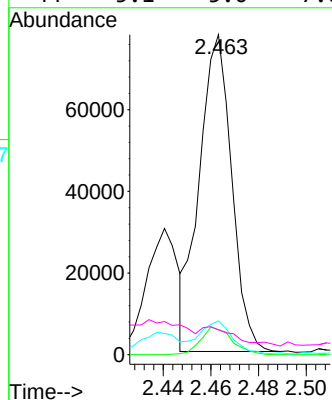
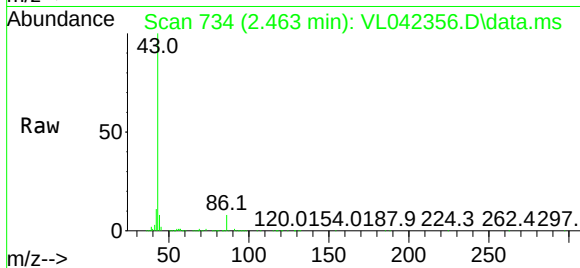
ICVVL041725

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

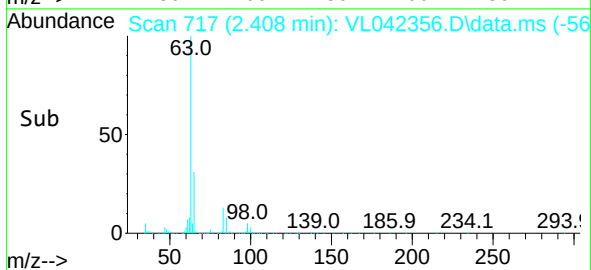
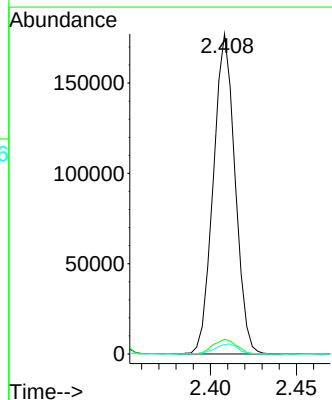
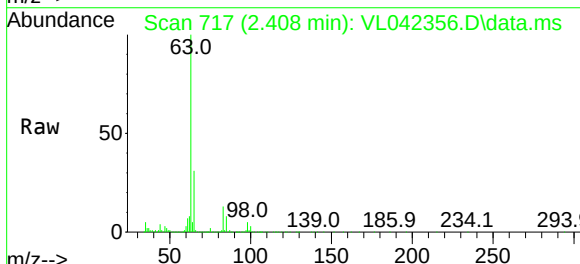
APPROVED

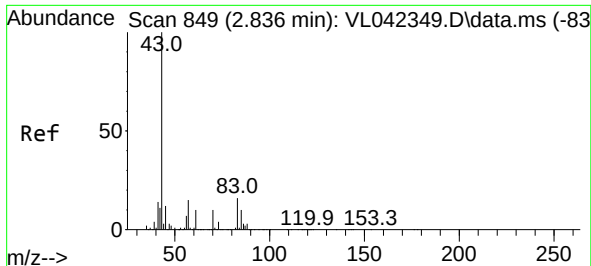
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#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

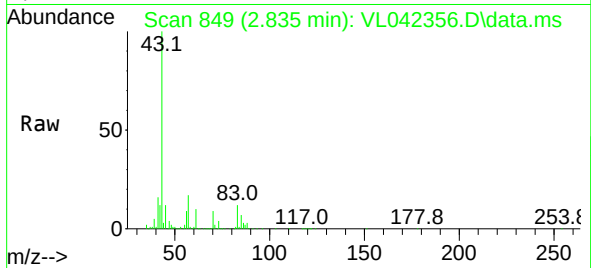
Tgt Ion: 63 Resp: 155571
 Ion Ratio Lower Upper
 63 100
 98 4.6 2.3 6.8
 100 3.0 1.6 4.8





#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

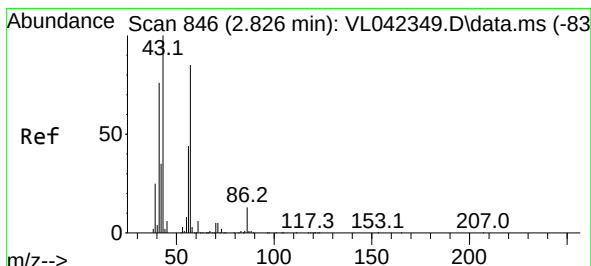
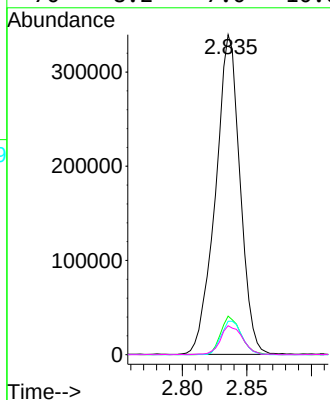
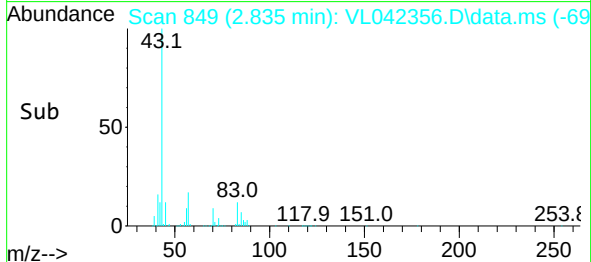
Instrument : MSVOA_L
ClientSampleId : ICVVL041725



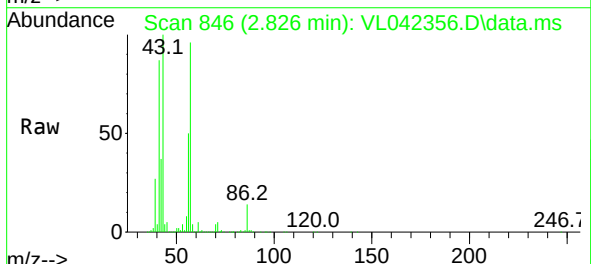
Tgt Ion: 43 Resp: 449014
Ion Ratio Lower Upper
43 100
45 9.9 8.3 12.5
61 9.0 7.3 10.9
70 8.2 7.0 10.6

Manual Integrations
APPROVED

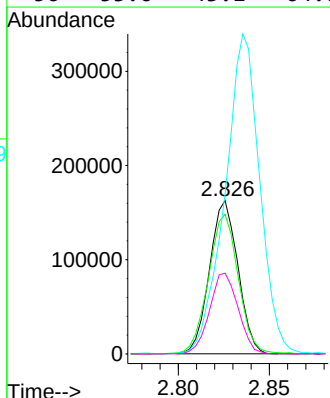
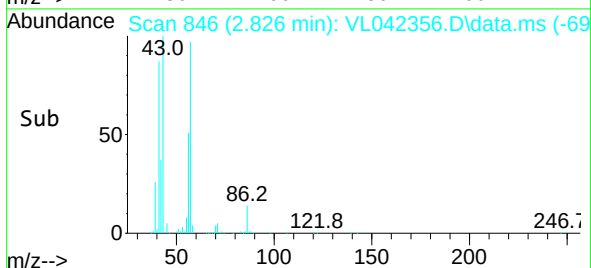
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

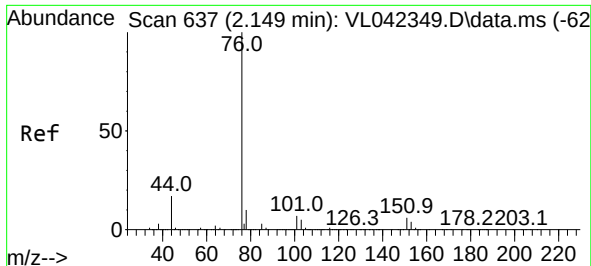


#26
Hexane
Concen: 9.439 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43



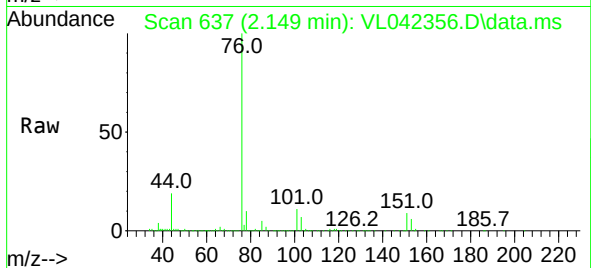
Tgt Ion: 57 Resp: 175752
Ion Ratio Lower Upper
57 100
41 96.6 77.9 116.9
43 256.0 208.4 312.6
56 53.6 43.1 64.7





#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

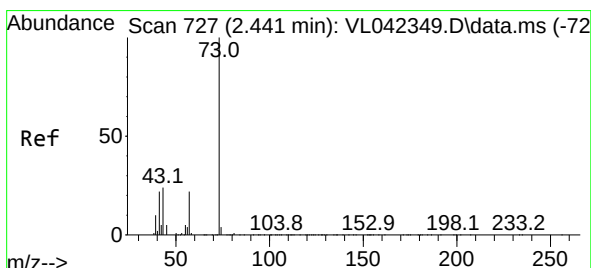
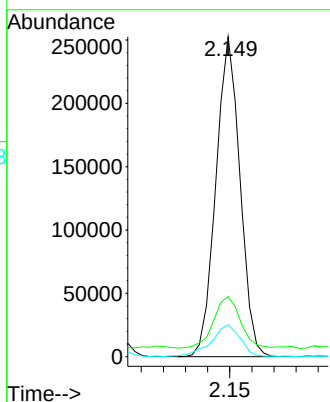
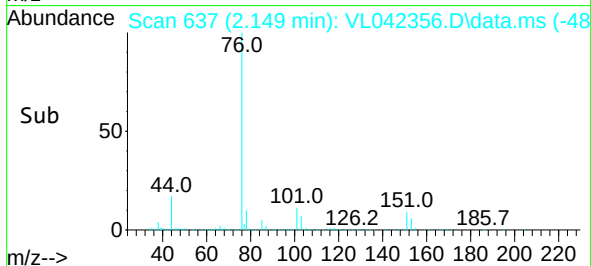
Instrument : MSVOA_L
ClientSampleId : ICVVL041725



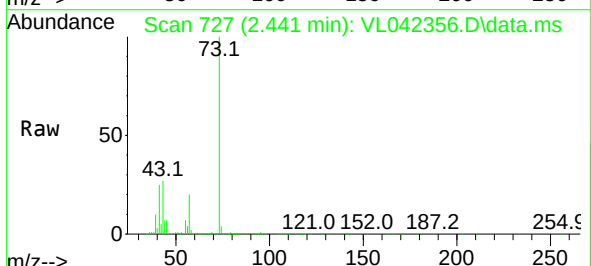
Tgt Ion: 76 Resp: 191117
Ion Ratio Lower Upper
76 100
44 19.3 15.5 23.3
78 11.9 9.3 13.9

Manual Integrations
APPROVED

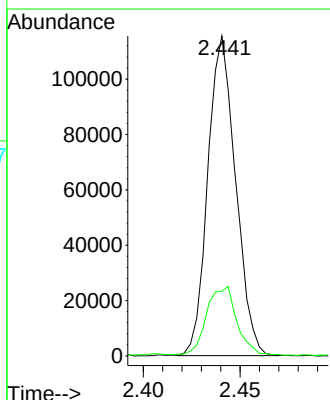
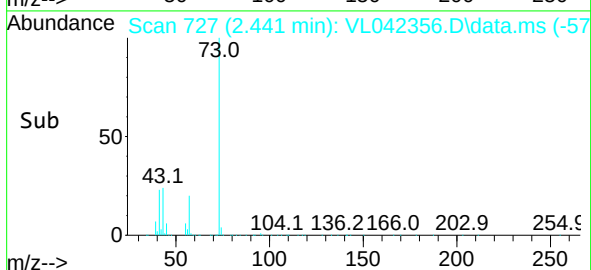
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

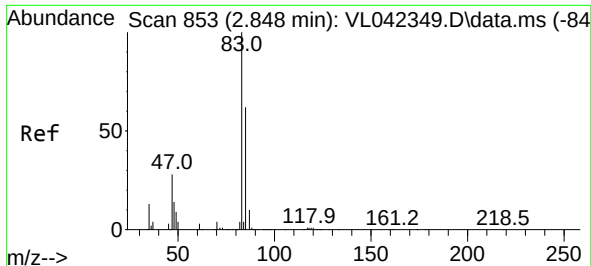


#28
Methyl tert-Butyl Ether
Concen: 9.442 ppbv
RT: 2.441 min Scan# 727
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43



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

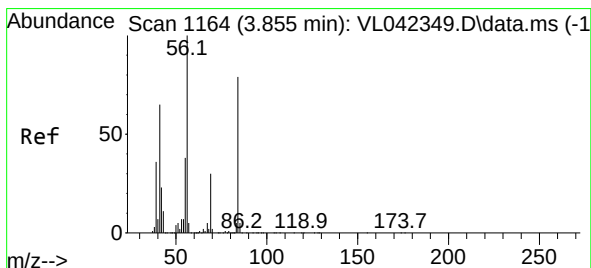
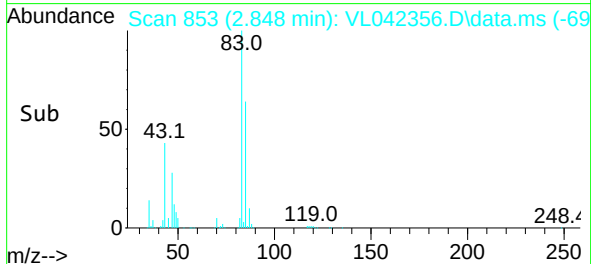
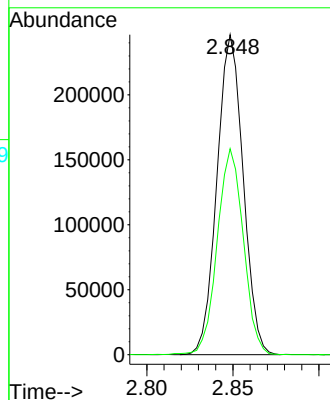
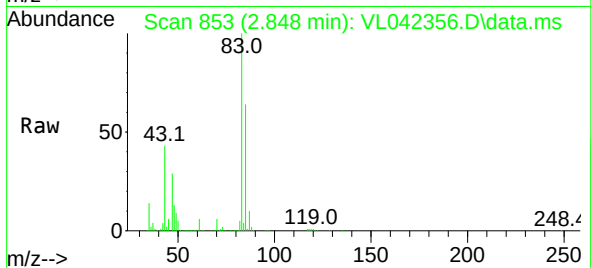
85 64.3 50.0 75.0

Manual Integrations

APPROVED

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

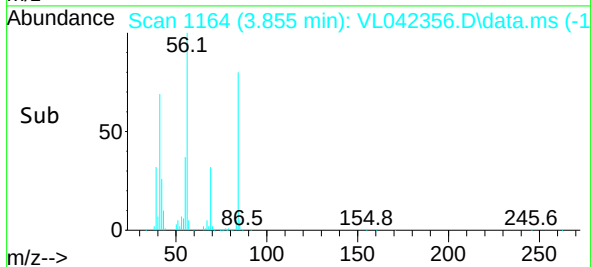
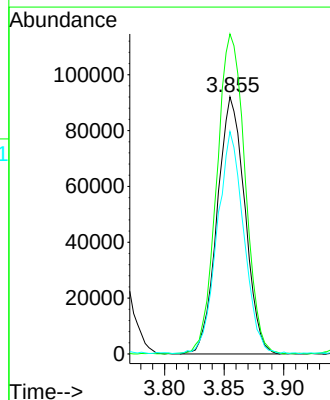
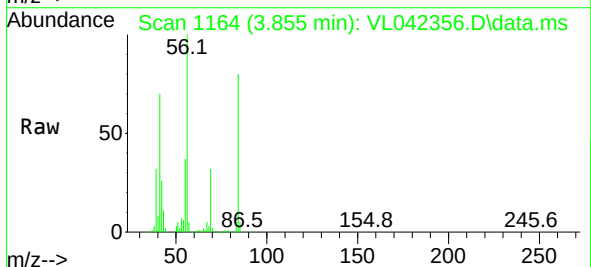
Tgt Ion: 84 Resp: 148246

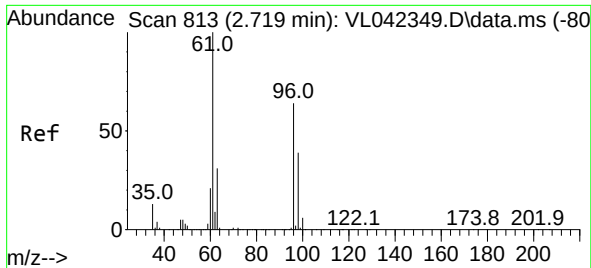
Ion Ratio Lower Upper

84 100

56 127.7 101.0 151.4

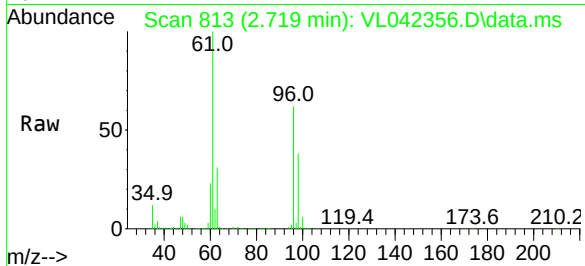
41 83.2 67.4 101.0





#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

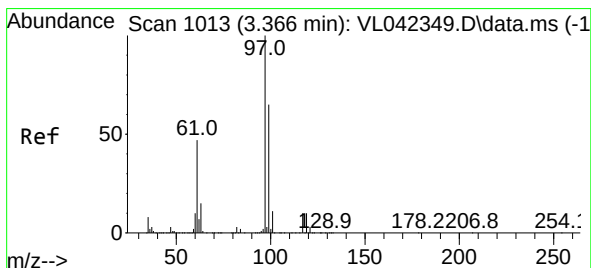
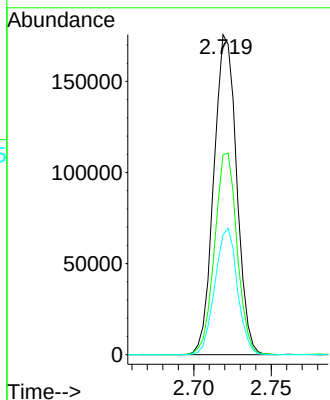
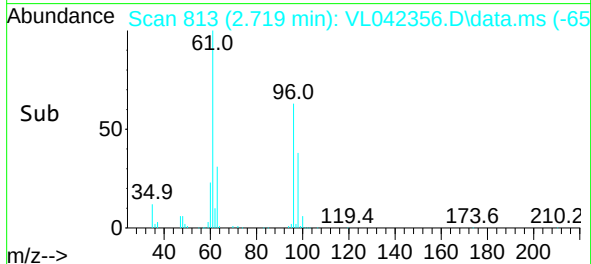
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL041725



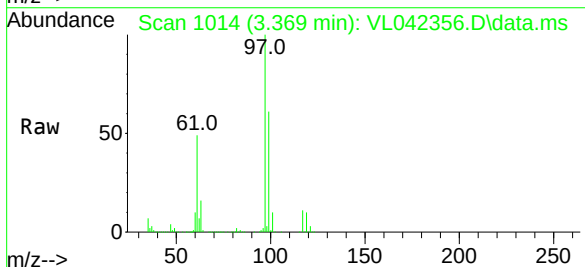
Tgt Ion: 61 Resp: 17999
 Ion Ratio Lower Upper
 61 100
 96 62.5 50.8 76.2
 98 37.5 30.9 46.3

Manual Integrations
 APPROVED

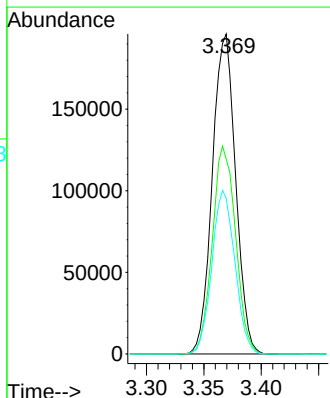
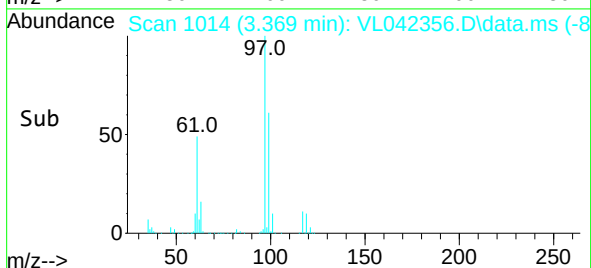
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

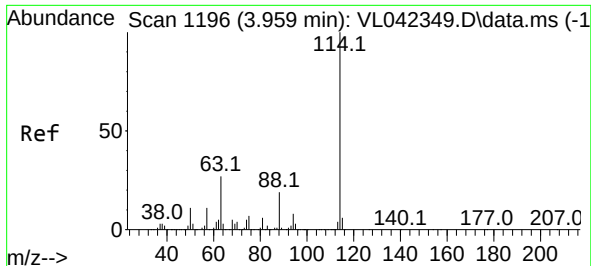


#32
 1,1,1-Trichloroethane
 Concen: 9.336 ppbv
 RT: 3.369 min Scan# 1014
 Delta R.T. 0.003 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43



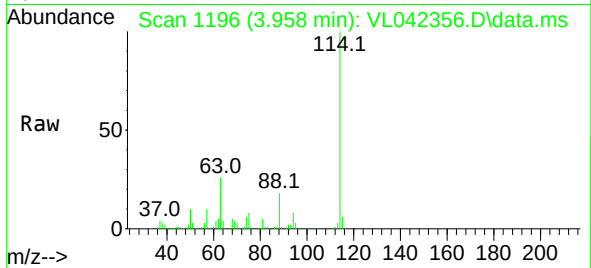
Tgt Ion: 97 Resp: 276599
 Ion Ratio Lower Upper
 97 100
 99 65.0 51.0 76.4
 61 50.7 38.8 58.2





#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

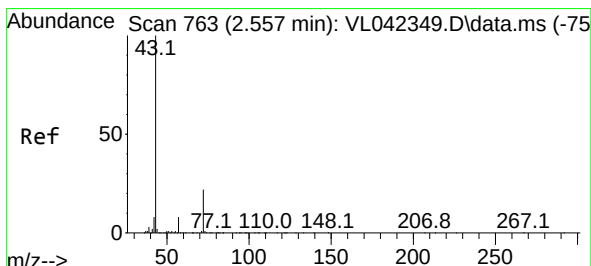
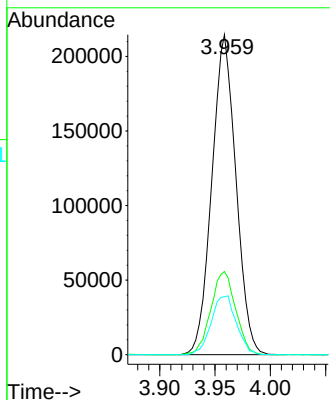
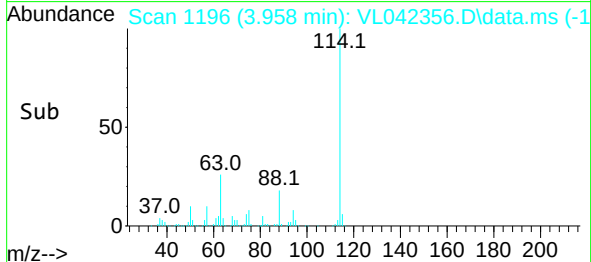
Instrument : MSVOA_L
ClientSampleId : ICVVL041725



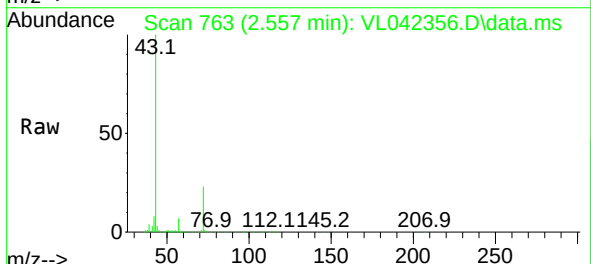
Tgt Ion:114 Resp: 324528
Ion Ratio Lower Upper
114 100
63 26.8 21.8 32.6
88 19.2 15.5 23.3

Manual Integrations
APPROVED

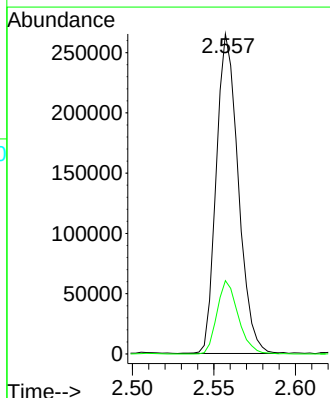
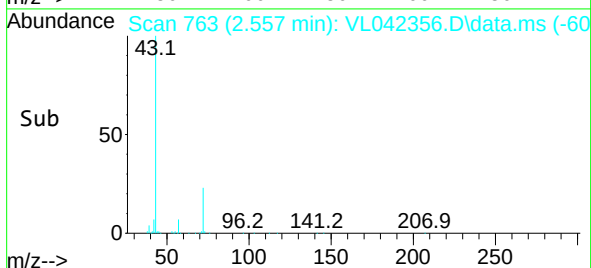
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

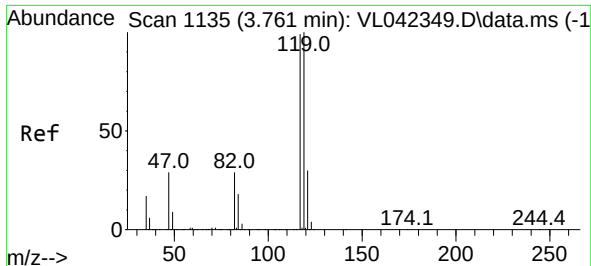


#34
2-Butanone
Concen: 9.700 ppbv
RT: 2.557 min Scan# 763
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43



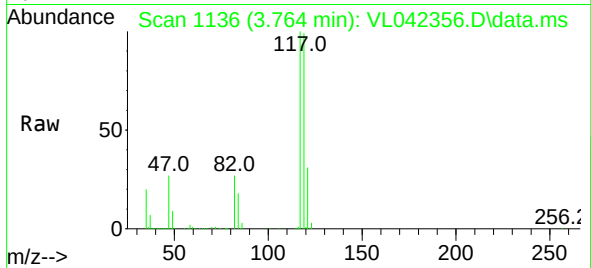
Tgt Ion: 43 Resp: 248969
Ion Ratio Lower Upper
43 100
72 22.1 18.2 27.2





#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

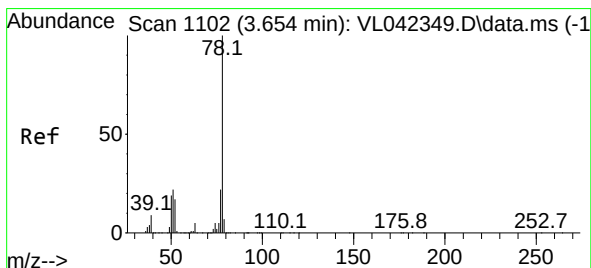
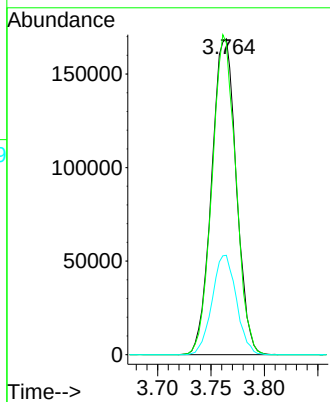
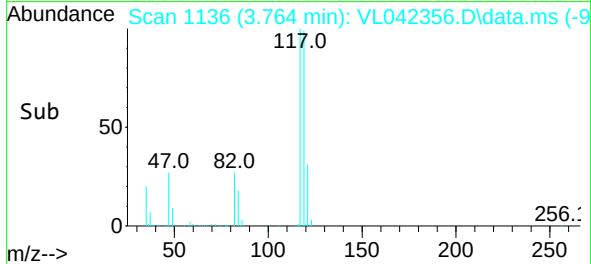
Instrument : MSVOA_L
ClientSampleId : ICVVL041725



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

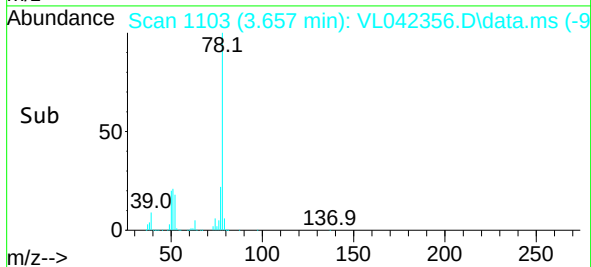
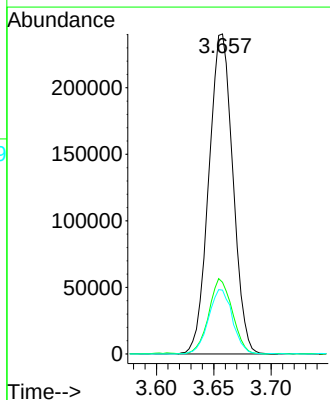
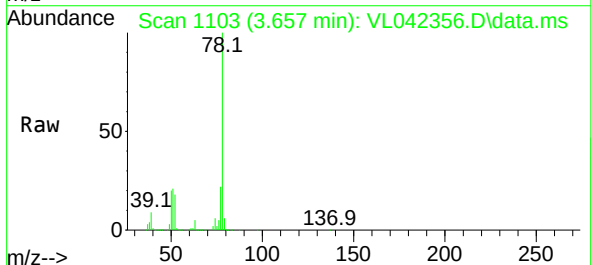
Manual Integrations
APPROVED

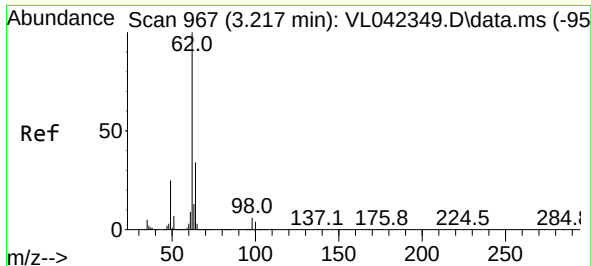
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

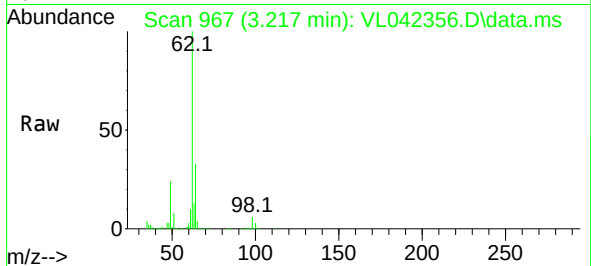
Tgt Ion: 78 Resp: 350545
Ion Ratio Lower Upper
78 100
77 22.3 17.4 26.0
50 19.9 15.5 23.3





#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

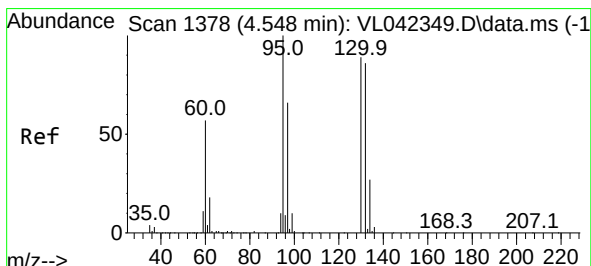
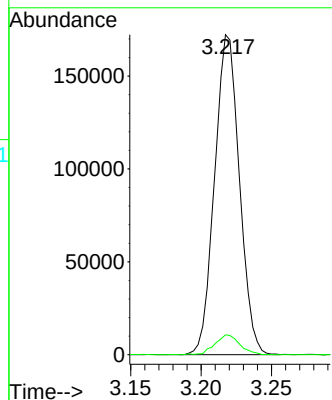
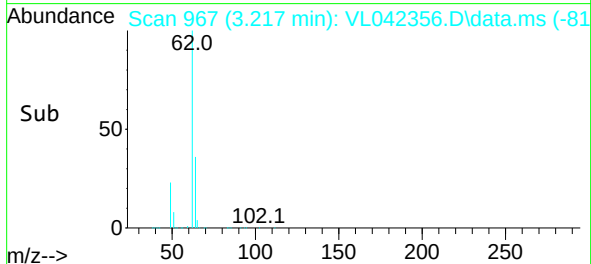
Instrument : MSVOA_L
ClientSampleId : ICVVL041725



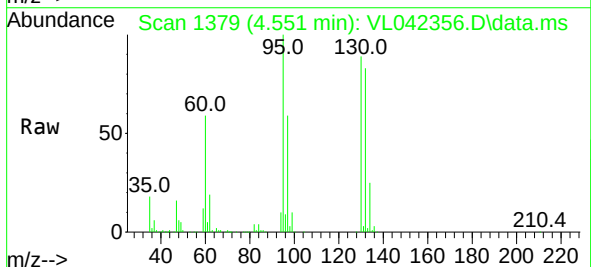
Tgt Ion: 62 Resp: 211790
Ion Ratio Lower Upper
62 100
98 6.2 5.1 7.7

Manual Integrations
APPROVED

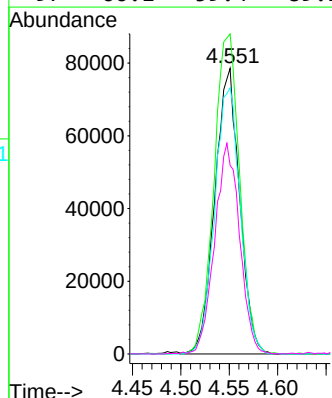
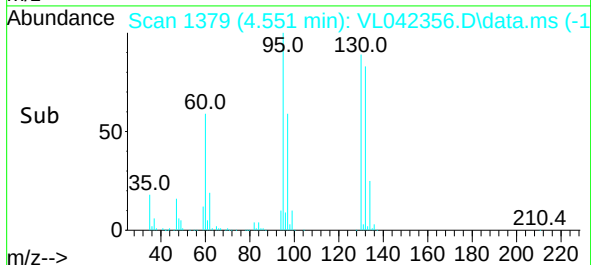
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

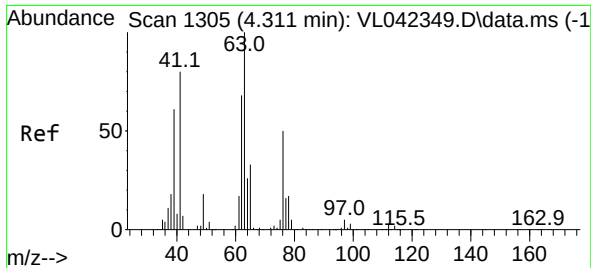


#38
Trichloroethene
Concen: 9.143 ppbv
RT: 4.551 min Scan# 1379
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43



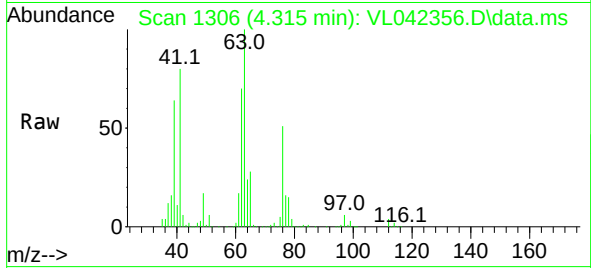
Tgt Ion:130 Resp: 139872
Ion Ratio Lower Upper
130 100
95 112.0 89.8 134.6
132 93.2 77.7 116.5
97 66.1 59.4 89.2





#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

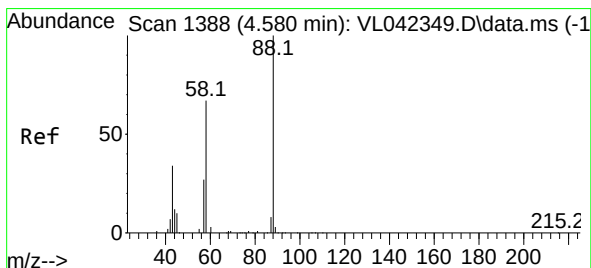
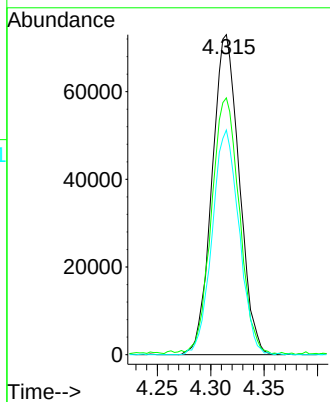
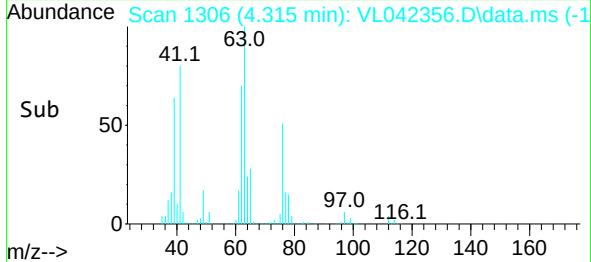
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725



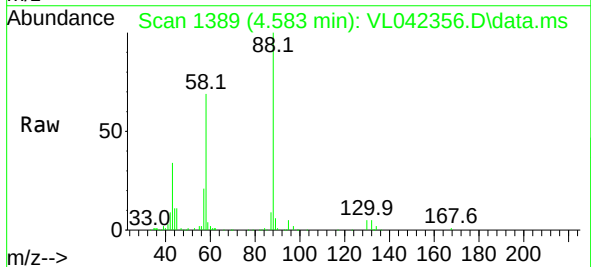
Tgt Ion: 63 Resp: 129239
Ion Ratio Lower Upper
63 100
41 79.9 64.2 96.2
62 70.2 54.3 81.5

Manual Integrations
APPROVED

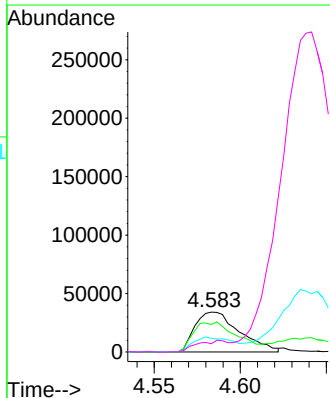
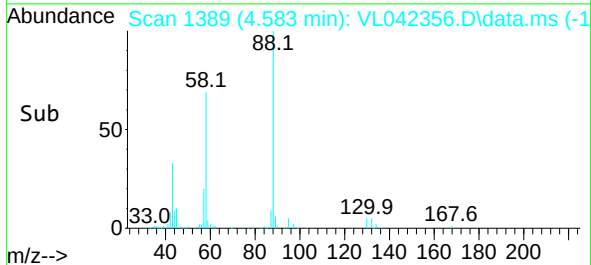
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

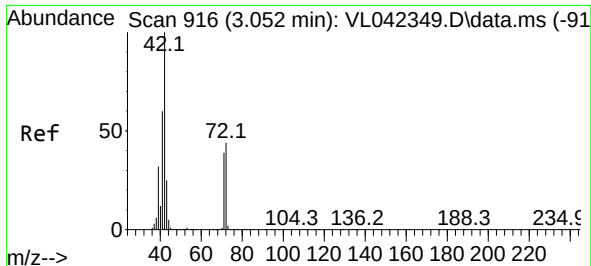


#40
1,4-Dioxane
Concen: 8.591 ppbv
RT: 4.583 min Scan# 1389
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43



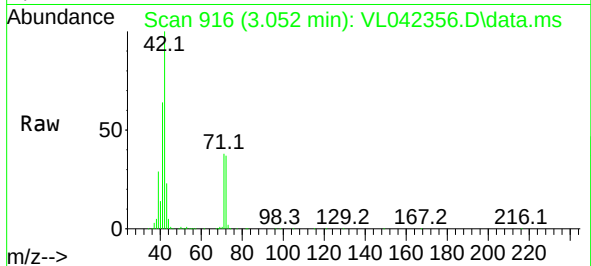
Tgt Ion: 88 Resp: 61587
Ion Ratio Lower Upper
88 100
58 76.1 61.4 92.0
43 35.9 23.2 34.8#
57 0.0 0.0 0.0





#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

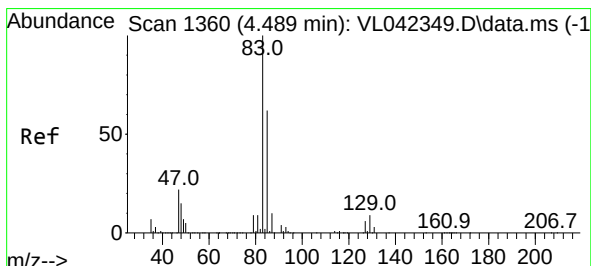
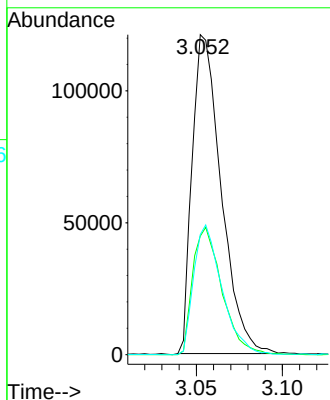
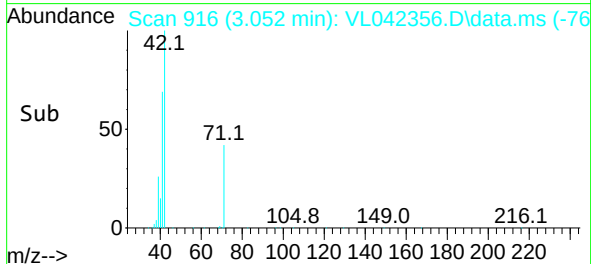
Instrument : MSVOA_L
ClientSampleId : ICVVL041725



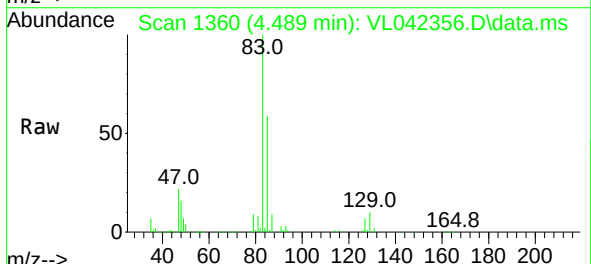
Tgt Ion: 42 Resp: 14186
Ion Ratio Lower Upper
42 100
72 40.2 32.3 48.5
71 39.8 31.4 47.2

Manual Integrations
APPROVED

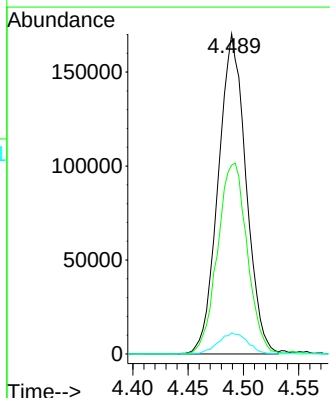
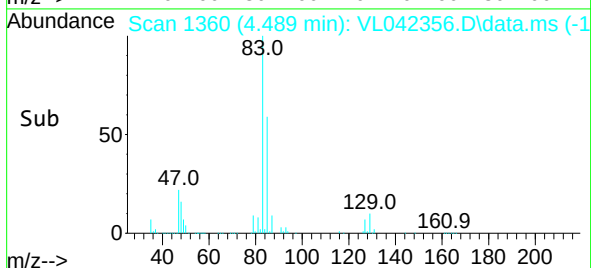
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

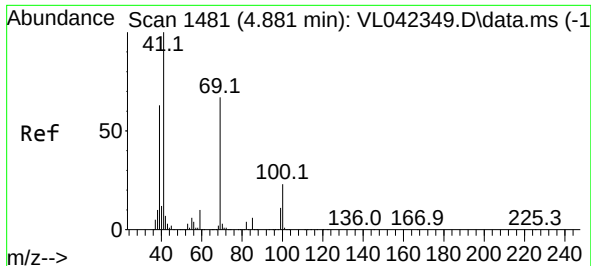


#42
Bromodichloromethane
Concen: 10.156 ppbv
RT: 4.489 min Scan# 1360
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43



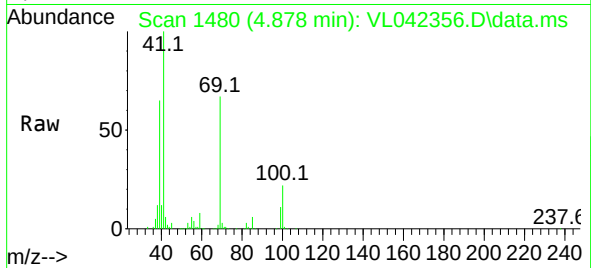
Tgt Ion: 83 Resp: 296946
Ion Ratio Lower Upper
83 100
85 59.0 49.7 74.5
127 6.6 5.1 7.7





#43
Methyl Methacrylate
Concen: 9.458 ppbv
RT: 4.878 min Scan# 1480
Delta R.T. -0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

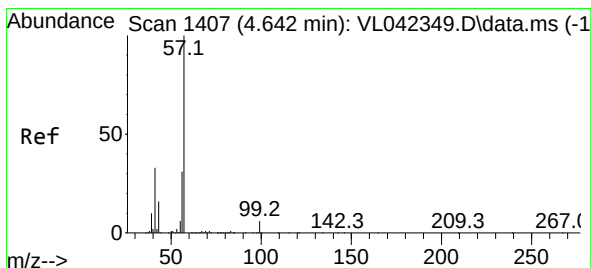
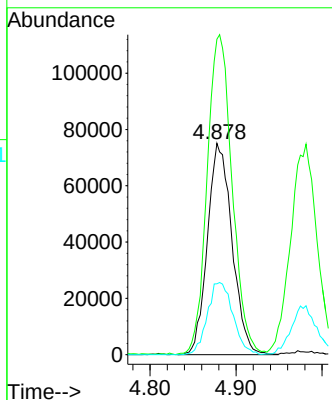
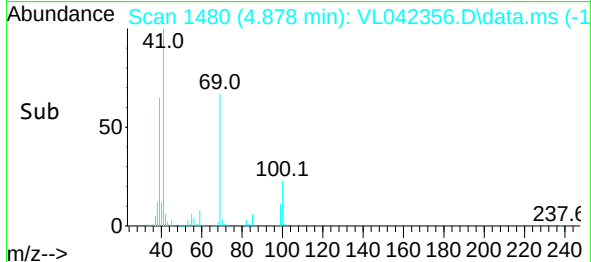
Instrument : MSVOA_L
ClientSampleId : ICVVL041725



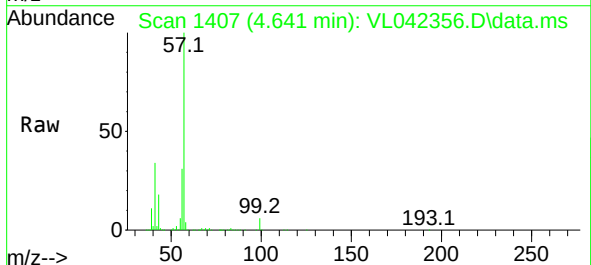
Tgt Ion: 69 Resp: 149209
Ion Ratio Lower Upper
69 100
41 154.1 118.6 177.8
100 35.5 28.2 42.2

Manual Integrations
APPROVED

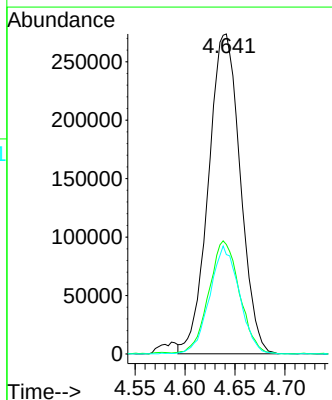
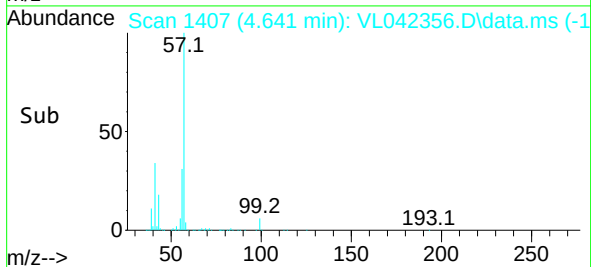
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

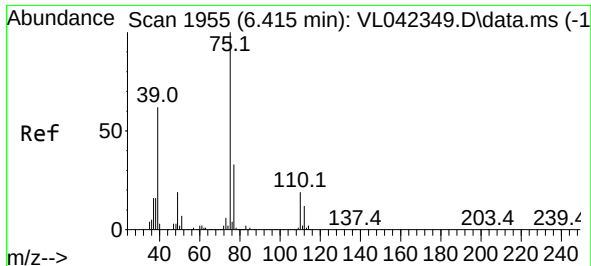


#44
2,2,4-Trimethylpentane
Concen: 10.030 ppbv
RT: 4.641 min Scan# 1407
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43



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

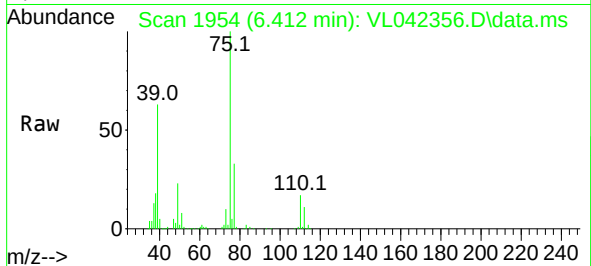
Acq: 17 Apr 2025 13:43

Instrument :

MSVOA_L

ClientSampleId :

ICVVL041725



Tgt Ion: 75 Resp: 160750

Ion Ratio Lower Upper

75 100

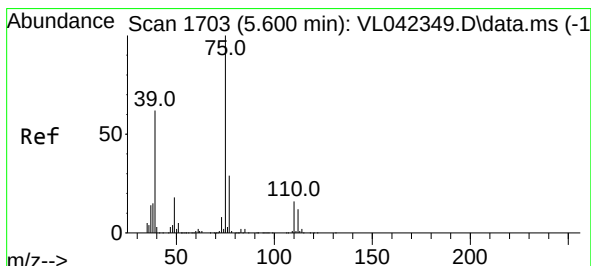
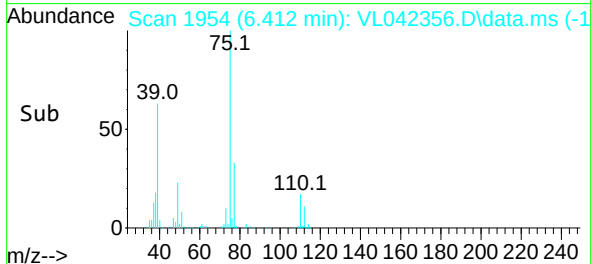
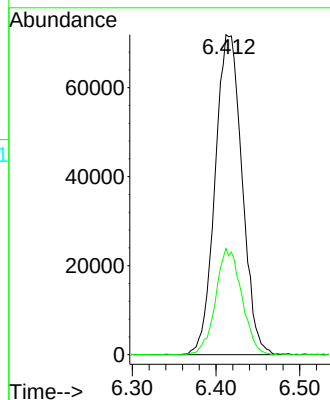
77 33.2 27.0 40.6

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

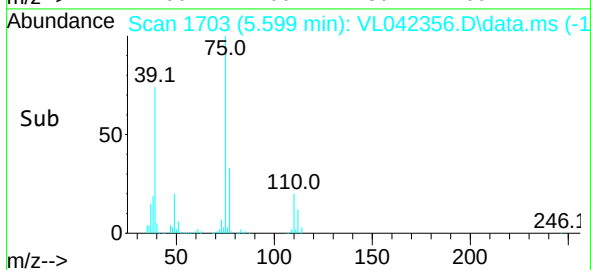
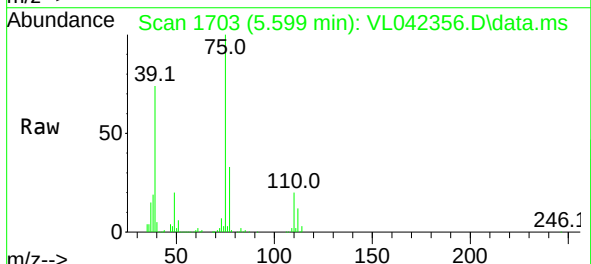
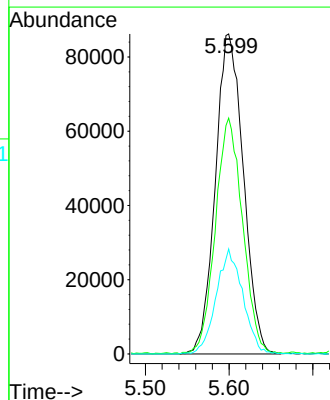
Tgt Ion: 75 Resp: 200144

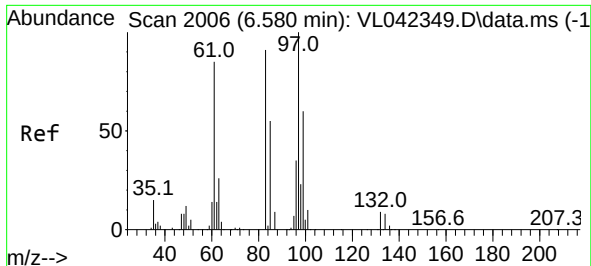
Ion Ratio Lower Upper

75 100

39 73.7 50.0 75.0

77 32.7 23.0 34.6





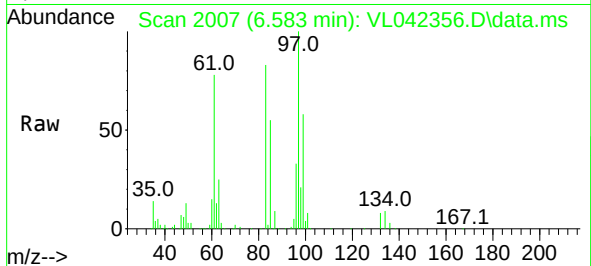
#47
1,1,2-Trichloroethane
Concen: 10.202 ppbv
RT: 6.583 min Scan# 2006
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Instrument :

MSVOA_L

ClientSampleId :

ICVVL041725

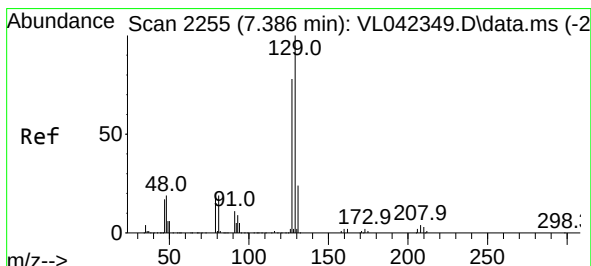
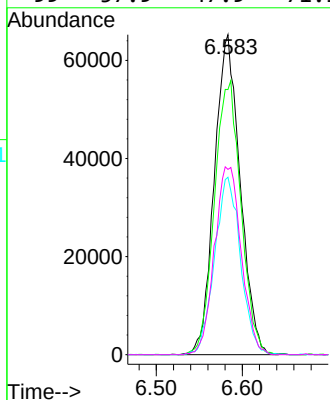
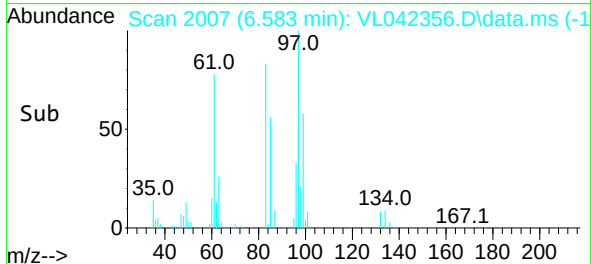


Tgt Ion: 97 Resp: 135574
Ion Ratio Lower Upper
97 100
83 82.8 72.8 109.2
85 55.5 44.2 66.4
99 57.9 47.9 71.9

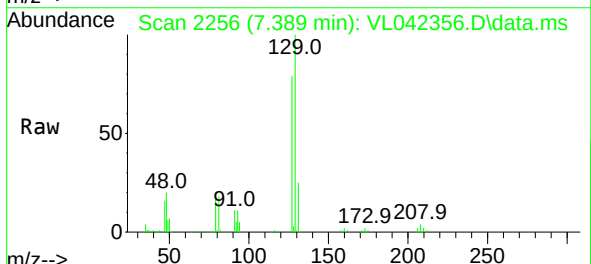
Manual Integrations

APPROVED

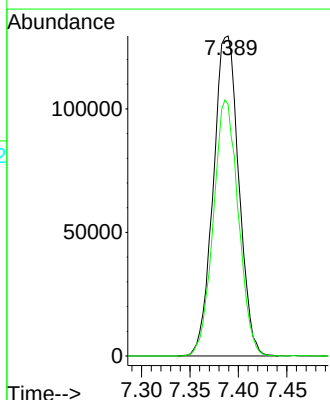
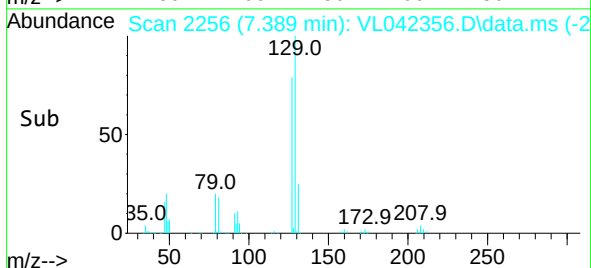
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

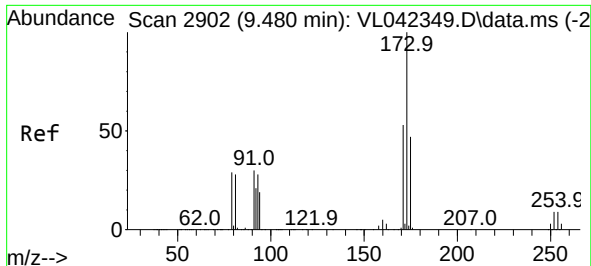


#48
Dibromochloromethane
Concen: 10.103 ppbv
RT: 7.389 min Scan# 2256
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43



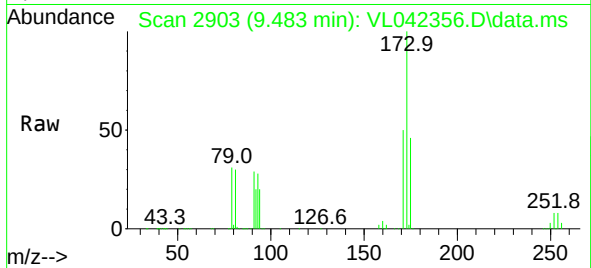
Tgt Ion:129 Resp: 237206
Ion Ratio Lower Upper
129 100
127 78.4 39.1 117.3





#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

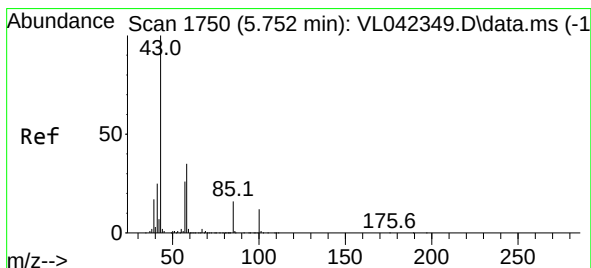
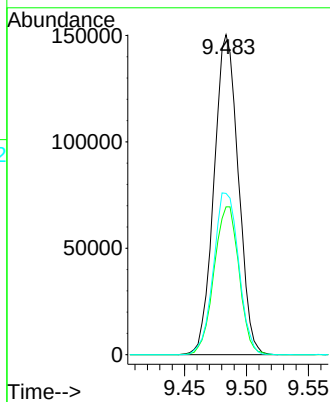
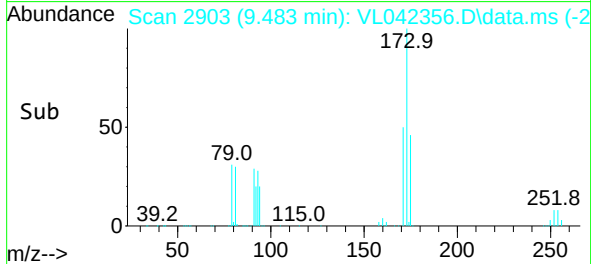
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725



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

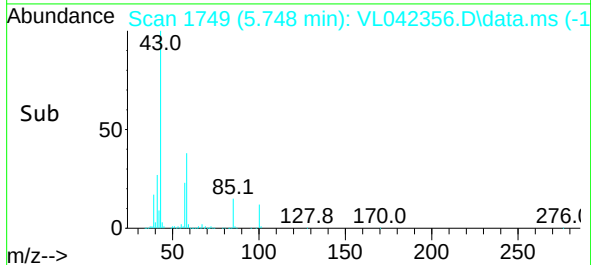
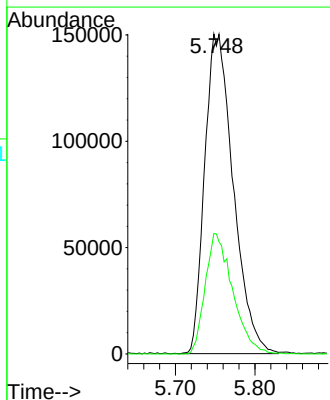
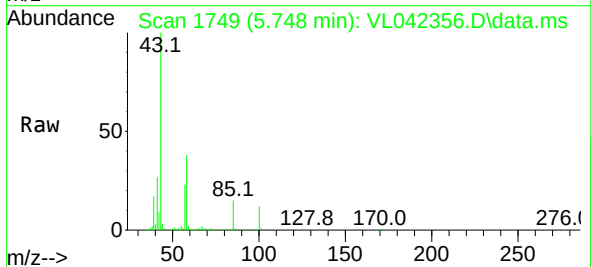
Manual Integrations
APPROVED

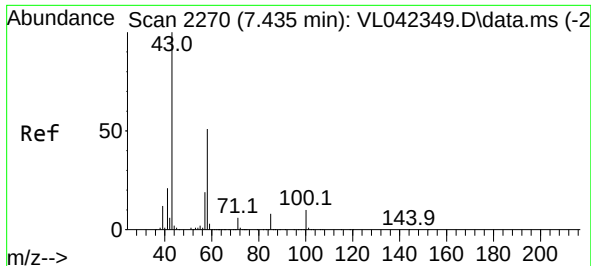
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

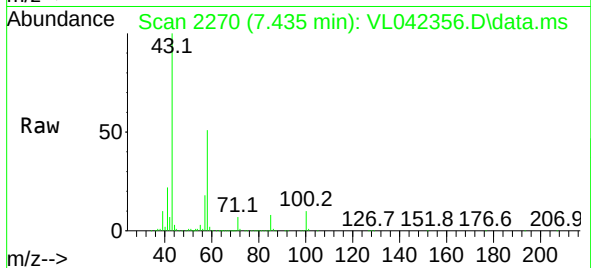
Tgt Ion: 43 Resp: 376145
Ion Ratio Lower Upper
43 100
58 36.2 28.6 43.0





#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

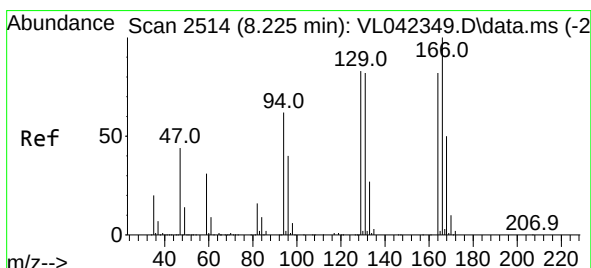
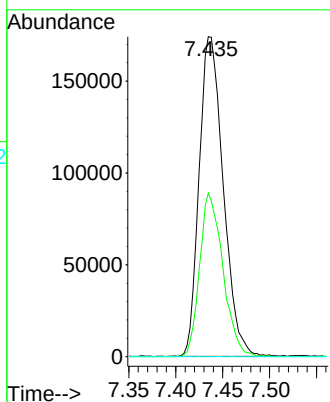
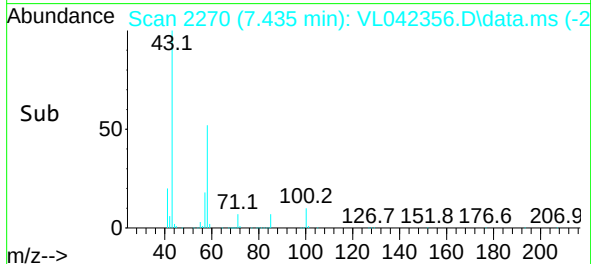
Instrument : MSVOA_L
ClientSampleId : ICVVL041725



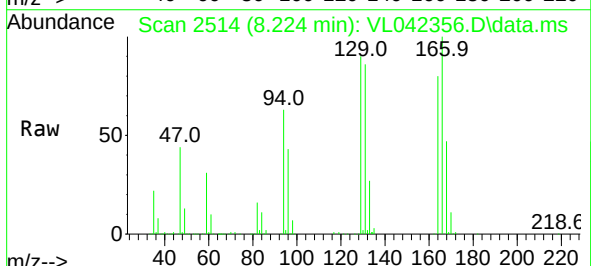
Tgt Ion: 43 Resp: 31052
Ion Ratio Lower Upper
43 100
58 49.3 40.2 60.4
98 0.0 0.1 0.1

Manual Integrations
APPROVED

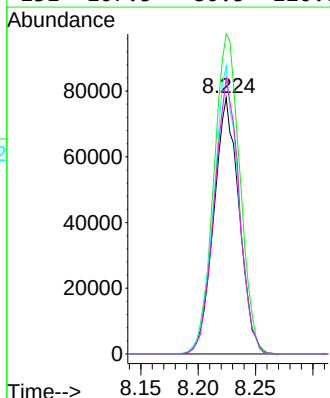
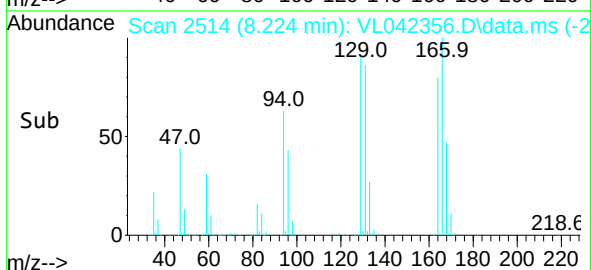
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

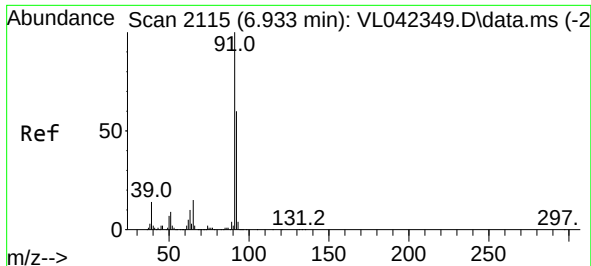


#52
Tetrachloroethene
Concen: 8.827 ppbv
RT: 8.224 min Scan# 2514
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43



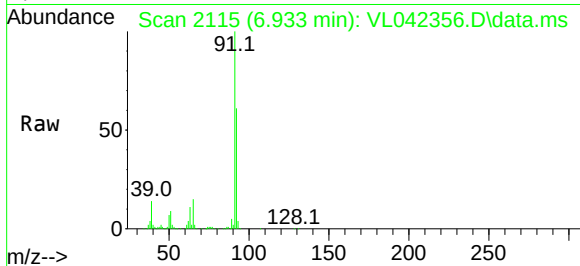
Tgt Ion:164 Resp: 119424
Ion Ratio Lower Upper
164 100
166 124.9 98.2 147.2
129 112.5 81.8 122.8
131 107.5 80.5 120.7





#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

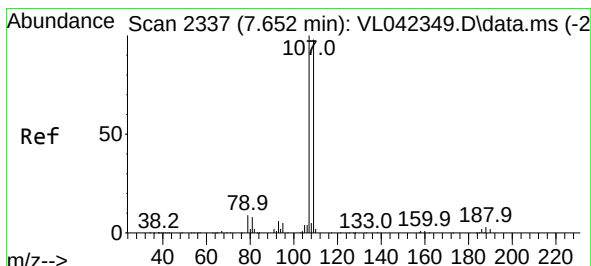
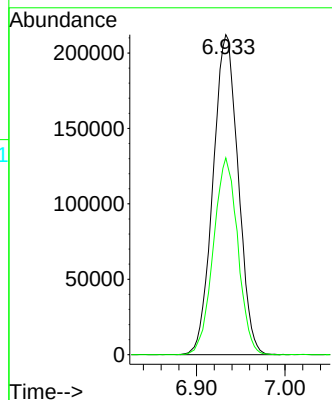
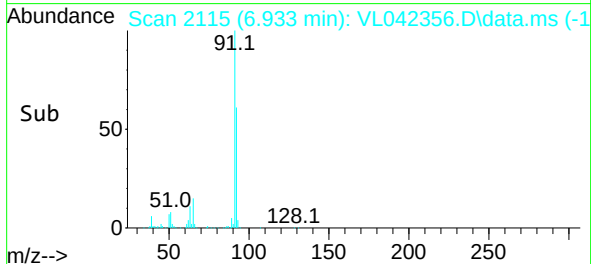
Instrument : MSVOA_L
ClientSampleId : ICVVL041725



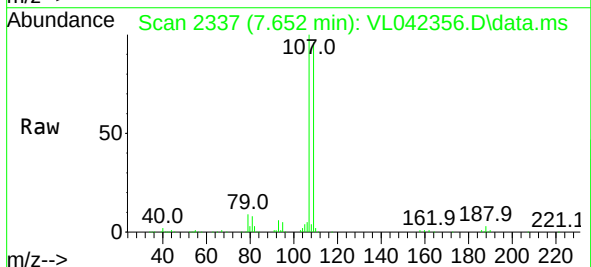
Tgt Ion: 91 Resp: 419462
Ion Ratio Lower Upper
91 100
92 59.6 48.2 72.4

Manual Integrations APPROVED

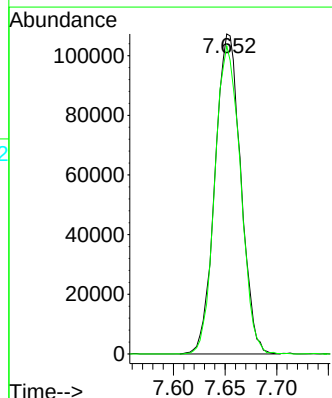
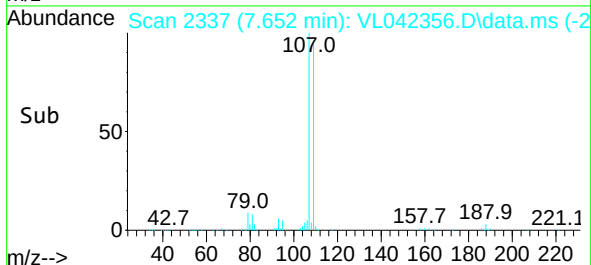
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

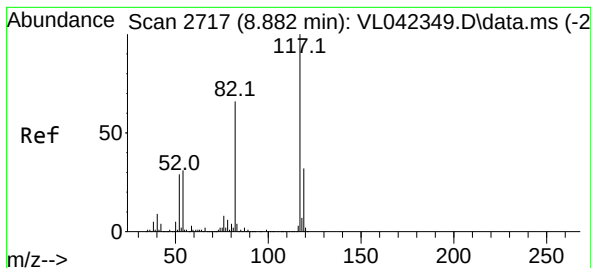


#54
1,2-Dibromoethane
Concen: 9.792 ppbv
RT: 7.652 min Scan# 2337
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43



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

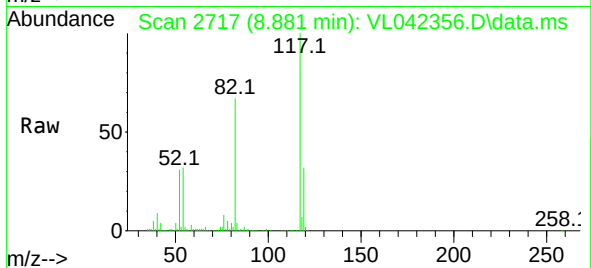
Acq: 17 Apr 2025 13:43

Instrument :

MSVOA_L

ClientSampleId :

ICVVL041725

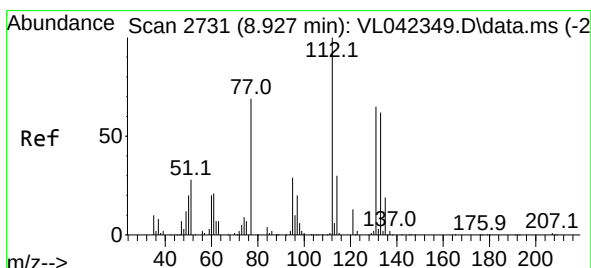
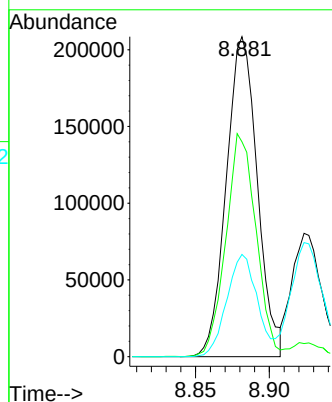
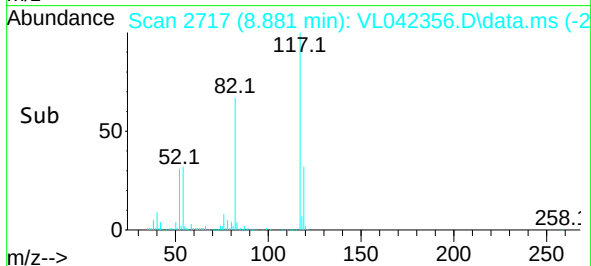


Tgt Ion:	117	Resp:	30535
Ion Ratio	Lower	Upper	
117	100		
82	68.3	57.8	86.6
119	31.8	25.2	37.8

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

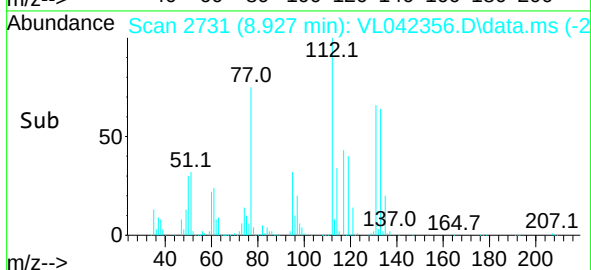
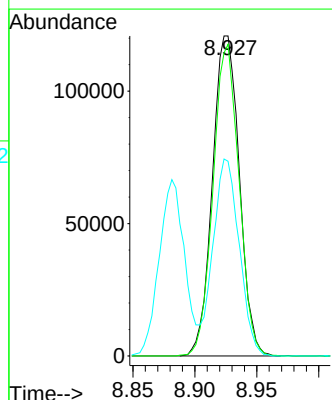
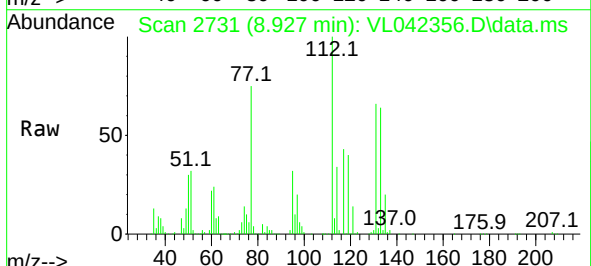
RT: 8.927 min Scan# 2731

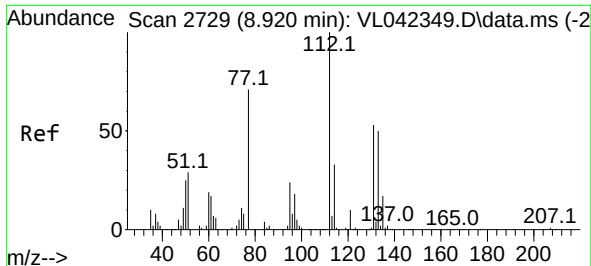
Delta R.T. -0.000 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

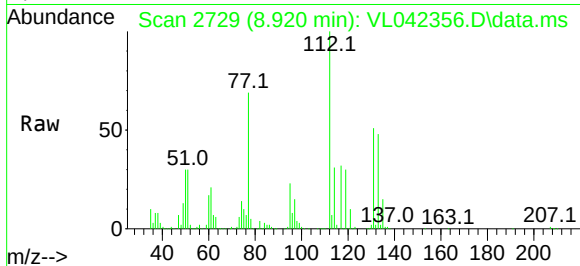
Tgt Ion:	131	Resp:	182712
Ion Ratio	Lower	Upper	
131	100		
133	93.9	78.3	117.5
119	59.4	48.7	73.1





#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

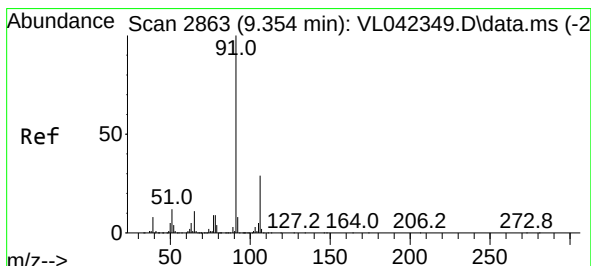
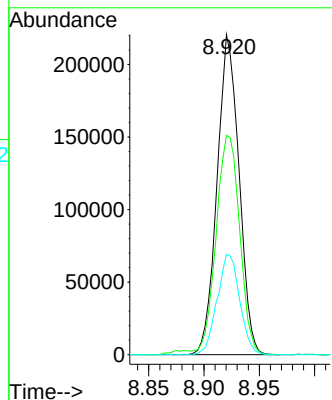
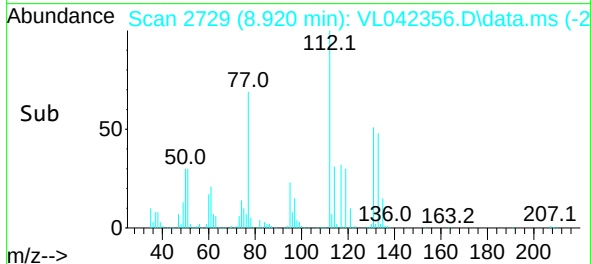
Instrument : MSVOA_L
ClientSampleId : ICVVL041725



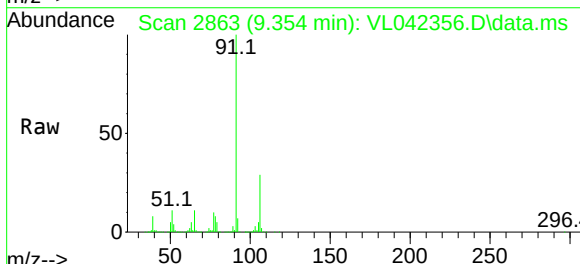
Tgt Ion: 112 Resp: 30453
Ion Ratio Lower Upper
112 100
77 68.5 57.8 86.6
114 31.3 29.3 35.9

Manual Integrations APPROVED

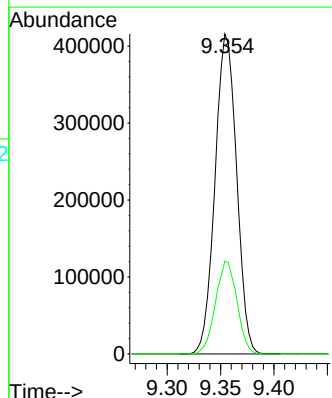
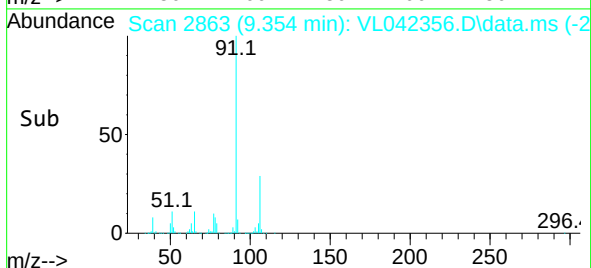
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

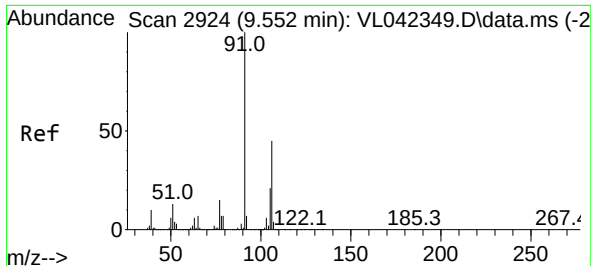


#58
Ethyl Benzene
Concen: 9.645 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43



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

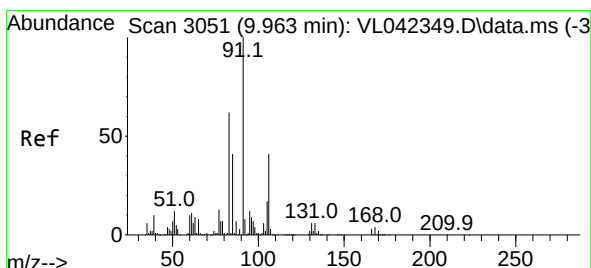
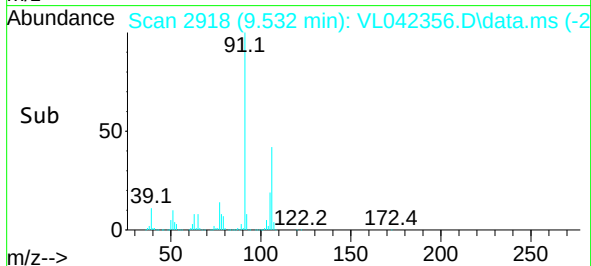
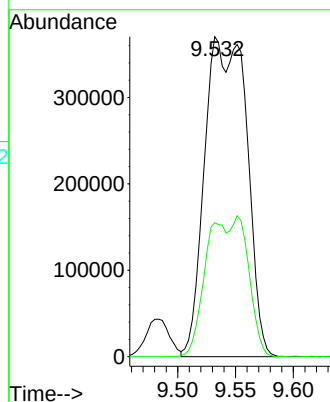
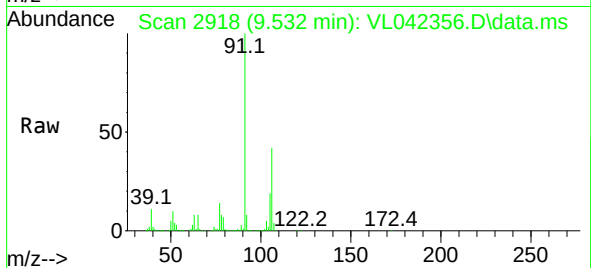
106 43.7 35.4 53.2

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

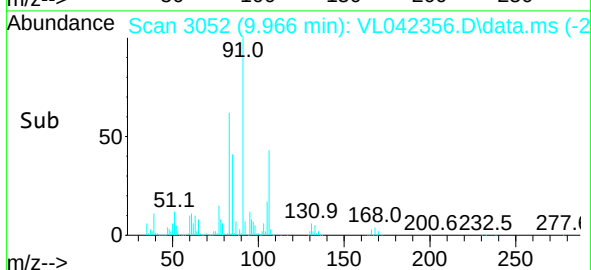
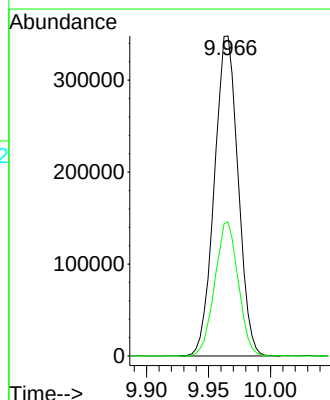
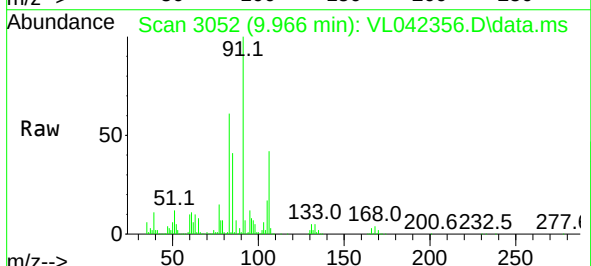
Acq: 17 Apr 2025 13:43

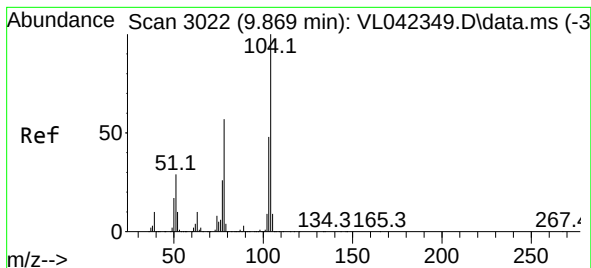
Tgt Ion: 91 Resp: 464522

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 :

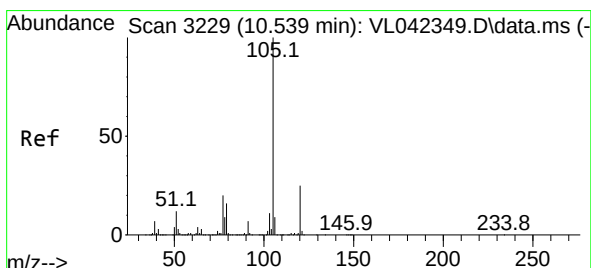
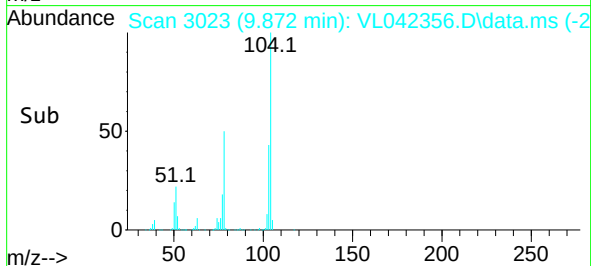
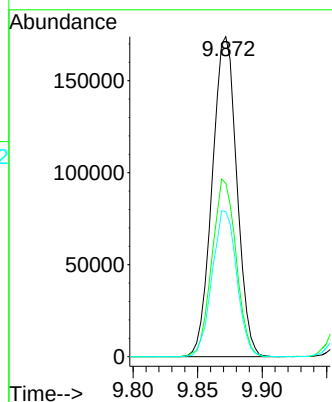
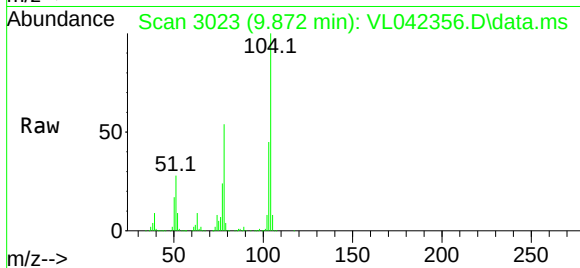
ICVVL041725

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

APPROVED

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



#62

Isopropylbenzene

Concen: 9.520 ppbv

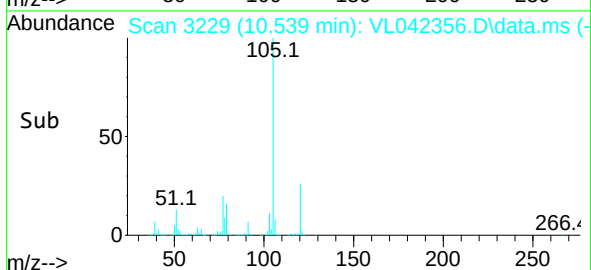
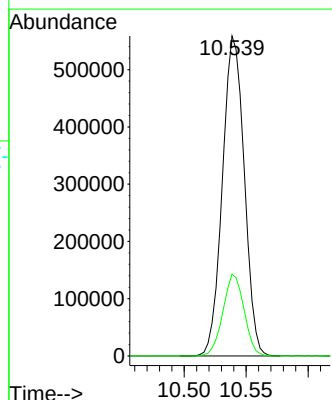
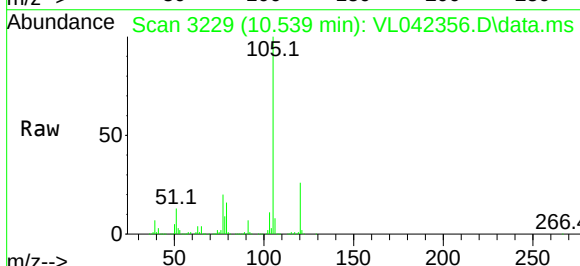
RT: 10.539 min Scan# 3229

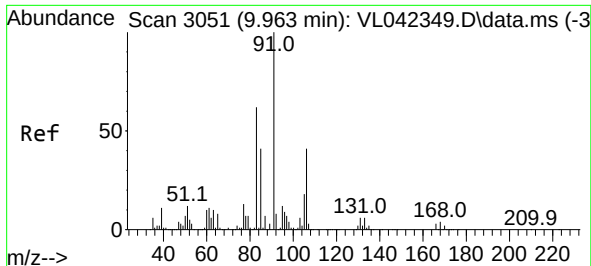
Delta R.T. -0.000 min

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 :

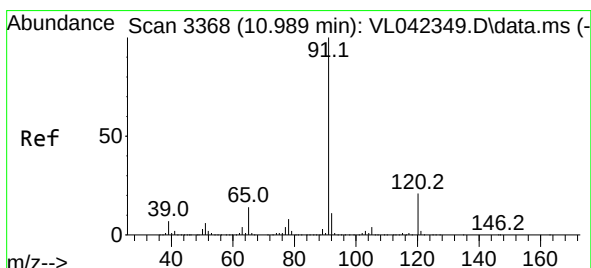
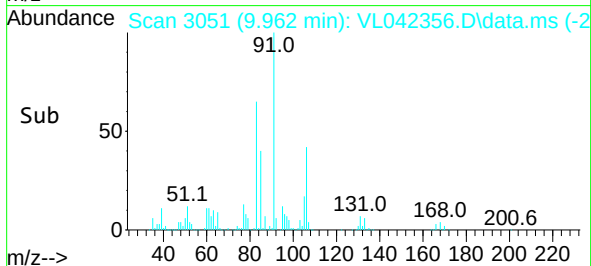
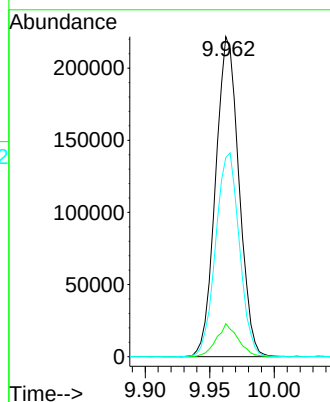
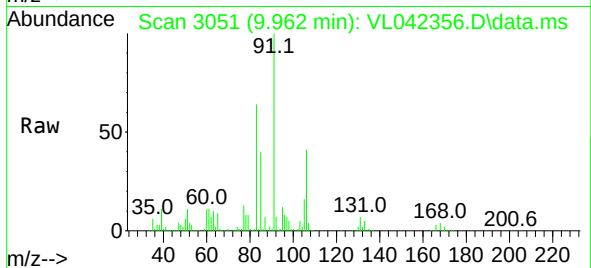
ICVVL041725

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

Manual Integrations

APPROVED

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



#64

n-propylbenzene

Concen: 9.533 ppbv

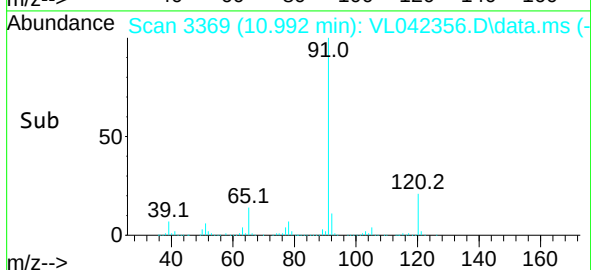
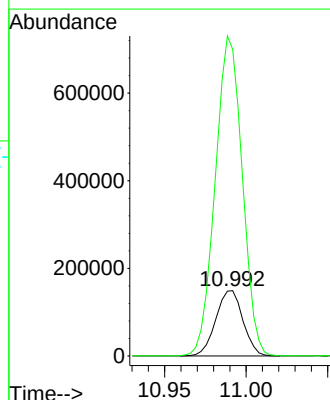
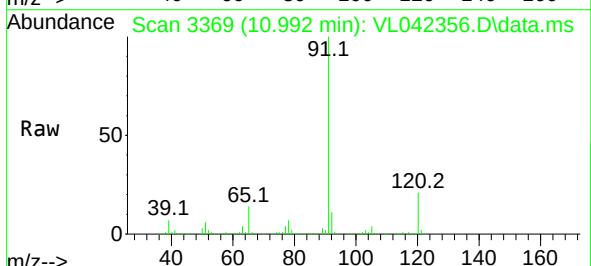
RT: 10.992 min Scan# 3369

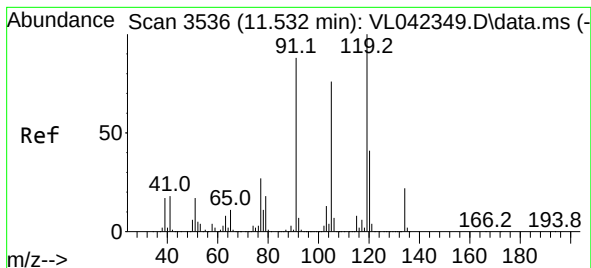
Delta R.T. 0.003 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

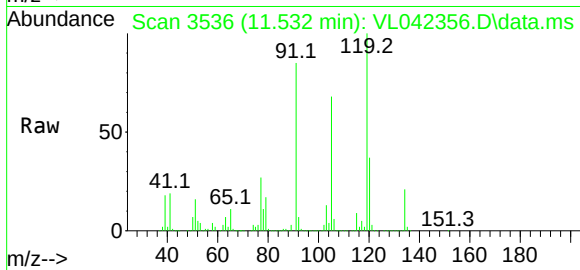
Tgt Ion:	120	Resp:	172654
Ion Ratio	Lower	Upper	
120	100		
91	487.7	392.4	588.6





#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

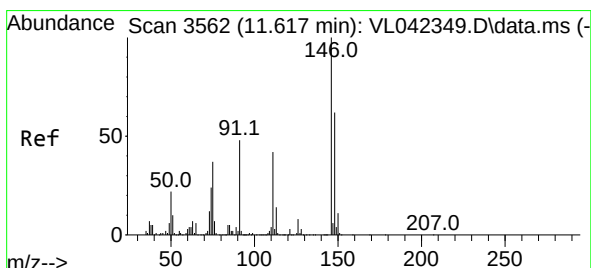
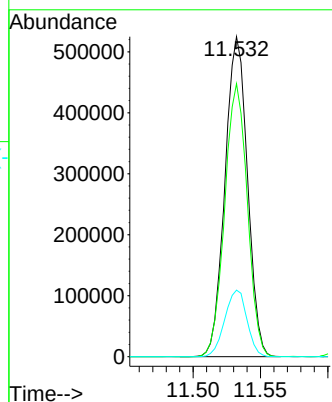
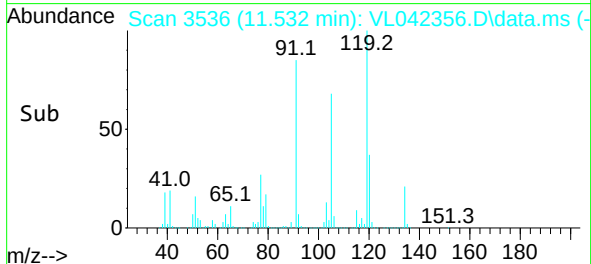
Instrument : MSVOA_L
ClientSampleId : ICVVL041725



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

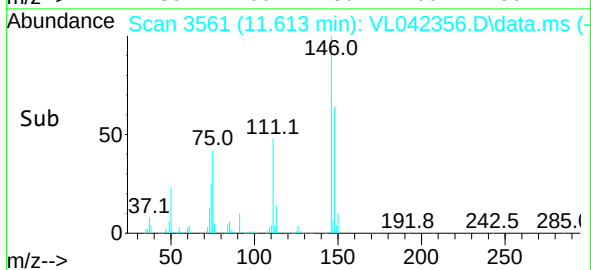
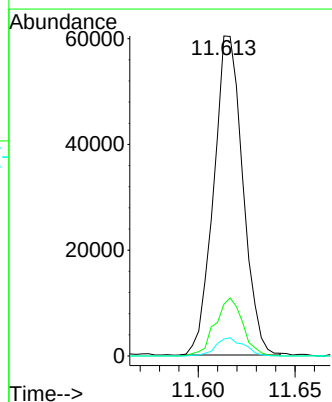
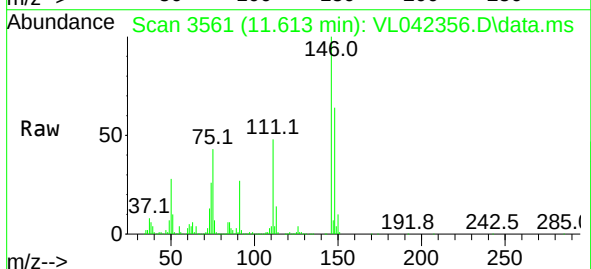
Manual Integrations
APPROVED

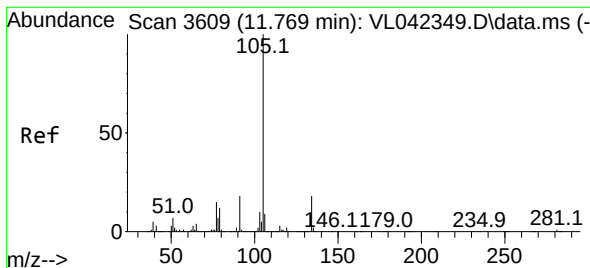
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

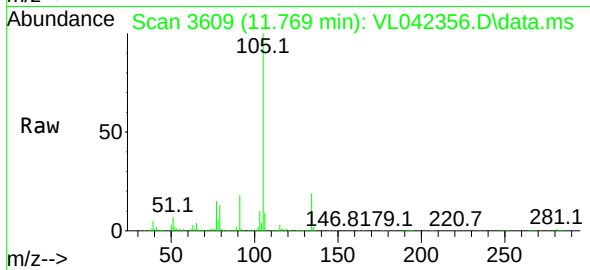
Tgt Ion: 91 Resp: 63051
Ion Ratio Lower Upper
91 100
126 17.3 11.8 17.6
128 5.6 4.5 6.7





#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

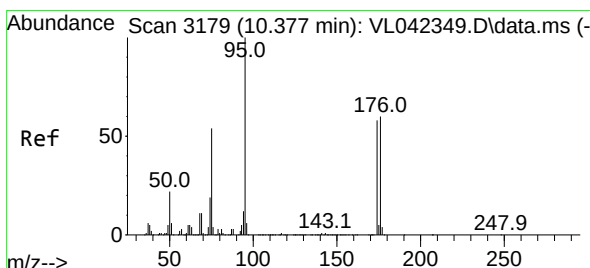
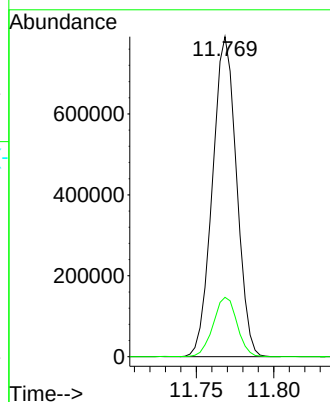
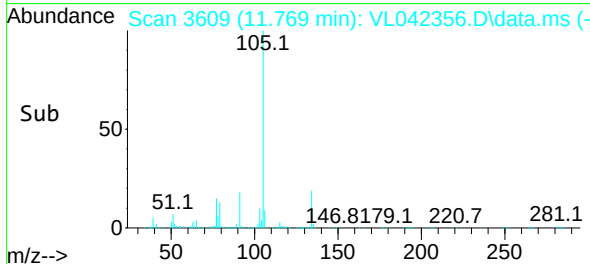
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL041725



Tgt Ion:105 Resp: 85380
 Ion Ratio Lower Upper
 105 100
 134 18.5 14.6 21.8

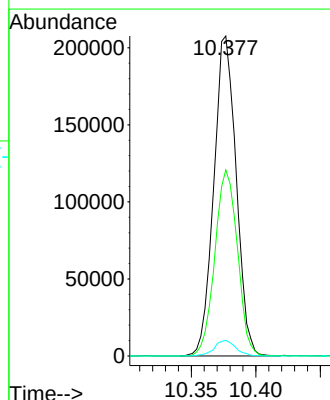
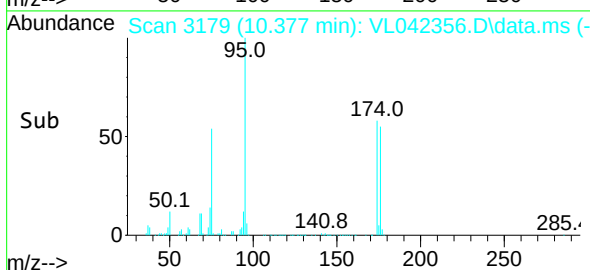
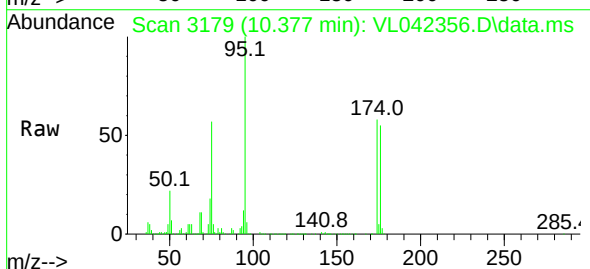
Manual Integrations APPROVED

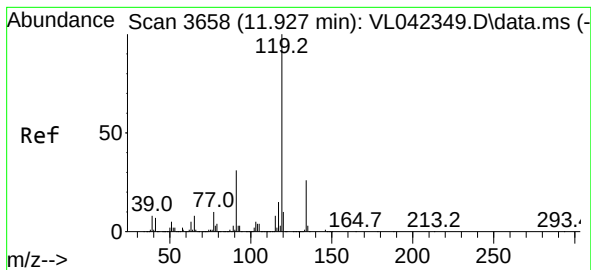
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#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

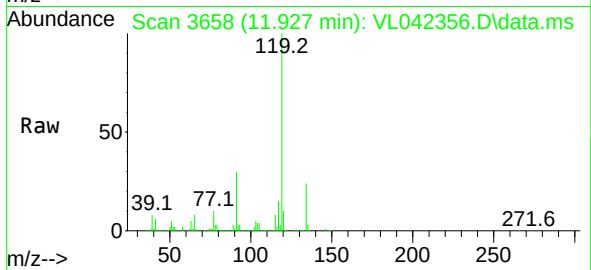
Tgt Ion: 95 Resp: 250149
 Ion Ratio Lower Upper
 95 100
 174 58.7 48.5 72.7
 175 4.7 3.7 5.5





#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

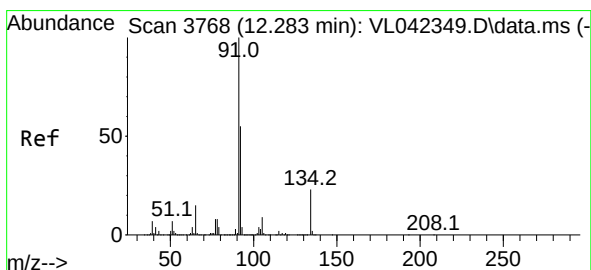
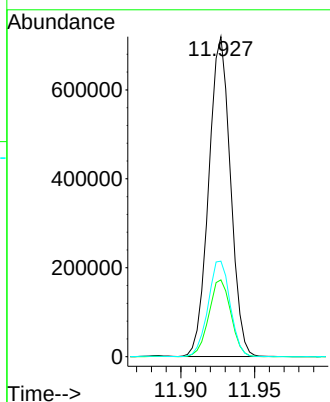
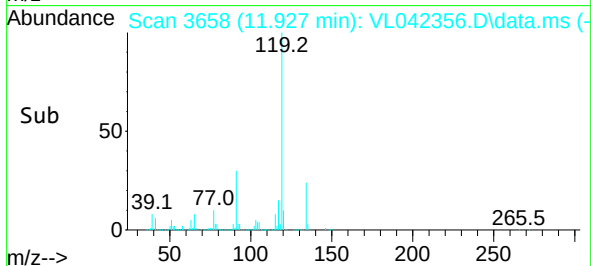
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725



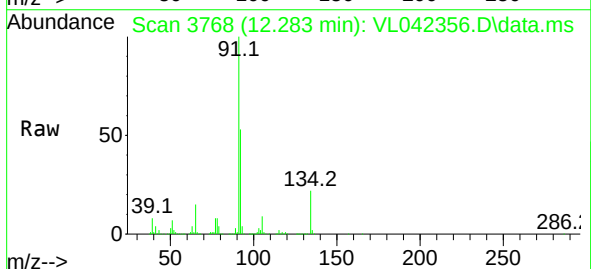
Tgt Ion:119 Resp: 737861
Ion Ratio Lower Upper
119 100
134 24.5 20.0 30.0
91 30.6 24.4 36.6

Manual Integrations
APPROVED

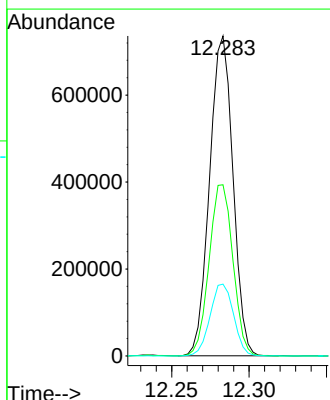
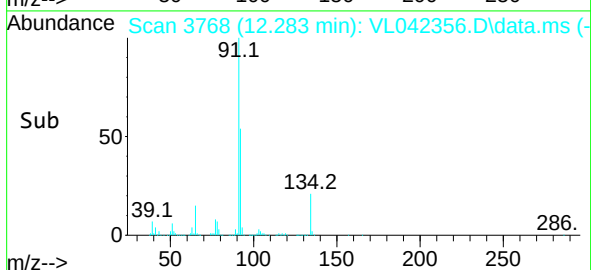
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

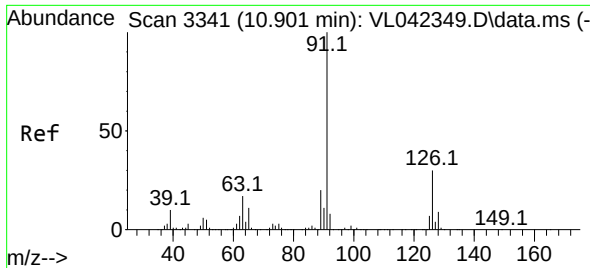


#70
n-Butylbenzene
Concen: 9.255 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43



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





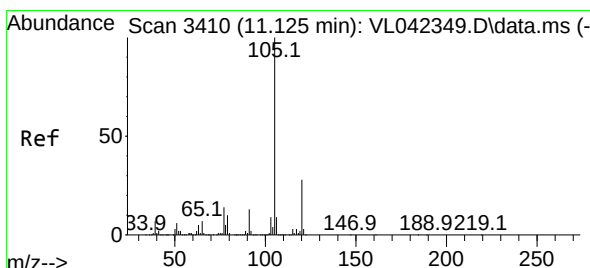
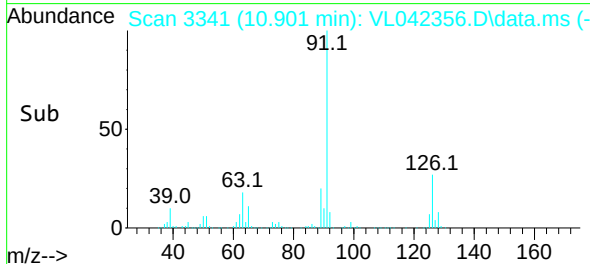
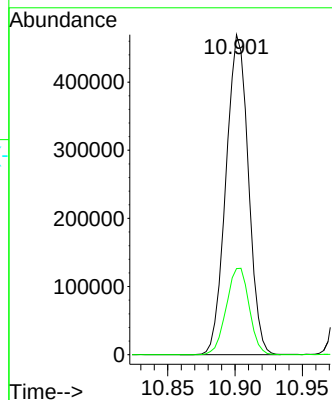
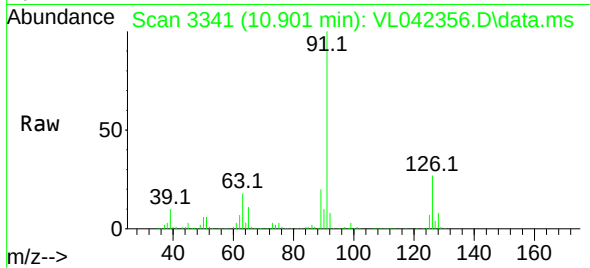
#71
2-Chlorotoluene
Concen: 9.622 ppbv
RT: 10.901 min Scan# 31
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

Tgt Ion: 91 Resp: 543794
Ion Ratio Lower Upper
91 100
126 27.5 11.4 45.4

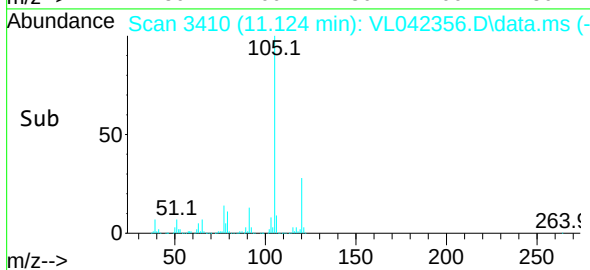
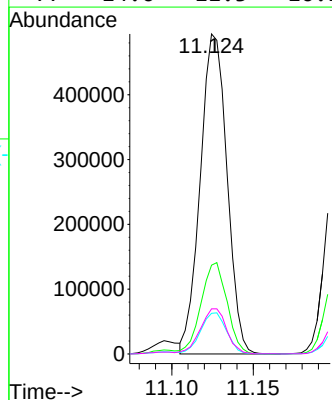
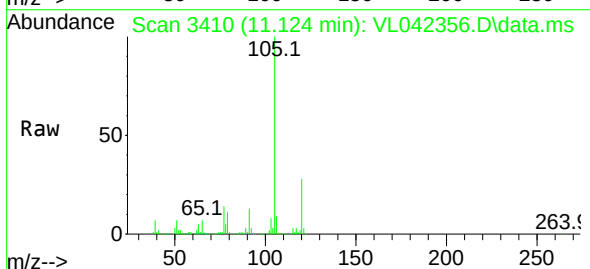
Manual Integrations
APPROVED

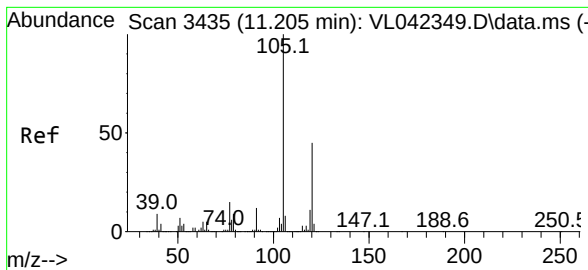
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

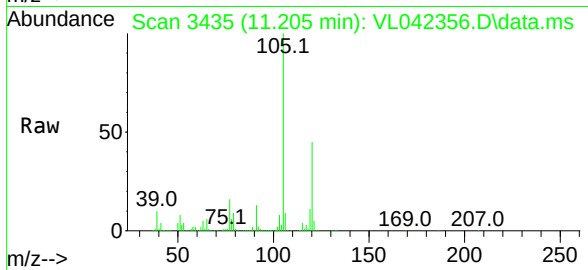
Tgt Ion:105 Resp: 563136
Ion Ratio Lower Upper
105 100
120 28.9 23.2 34.8
91 13.2 10.4 15.6
77 14.6 11.3 16.9





#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

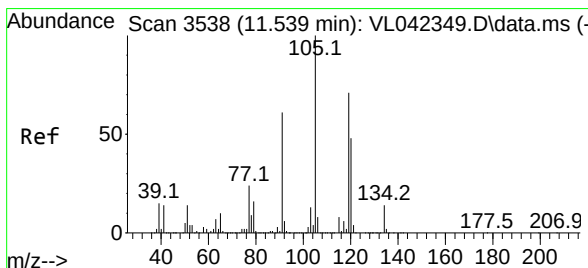
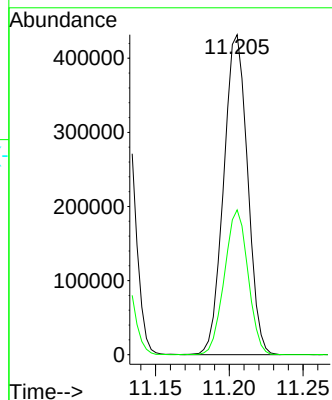
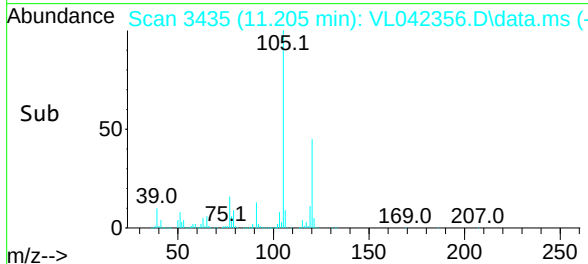
Instrument : MSVOA_L
ClientSampleId : ICVVL041725



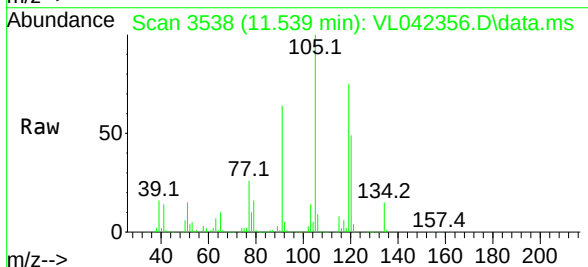
Tgt Ion:105 Resp: 48658
Ion Ratio Lower Upper
105 100
120 45.2 35.6 53.4

Manual Integrations
APPROVED

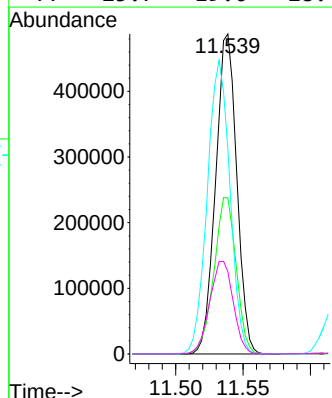
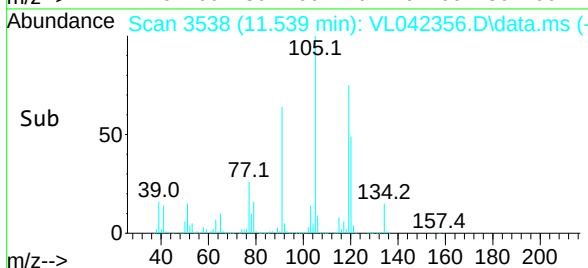
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

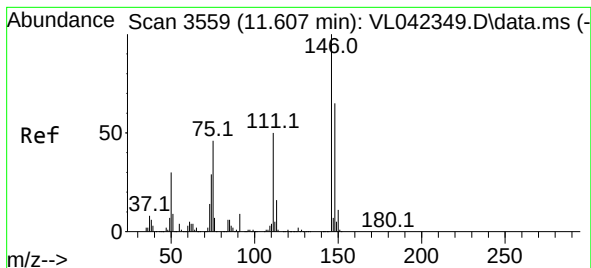


#74
1,2,4-Trimethylbenzene
Concen: 8.592 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43



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 :

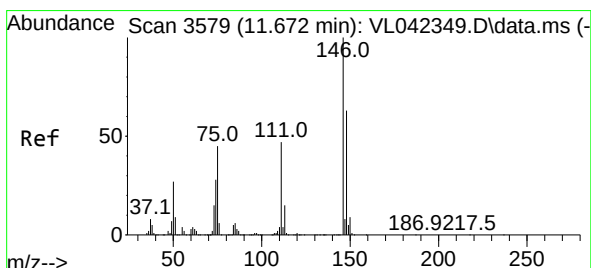
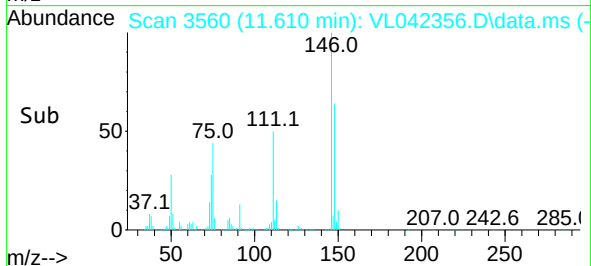
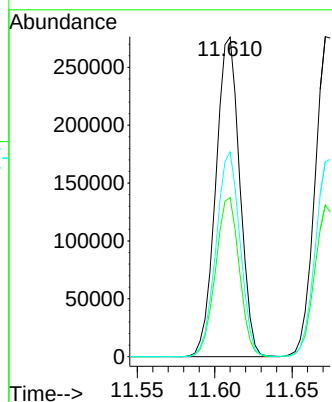
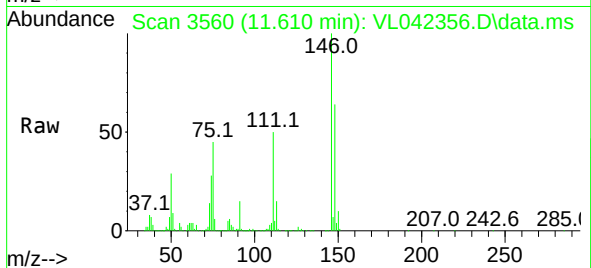
ICVVL041725

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

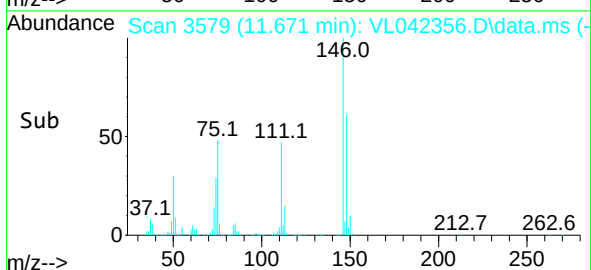
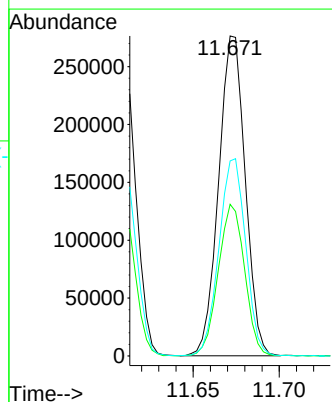
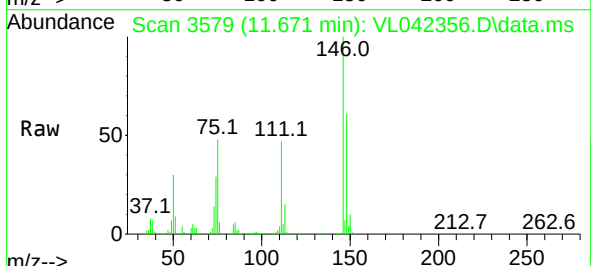
RT: 11.671 min Scan# 3579

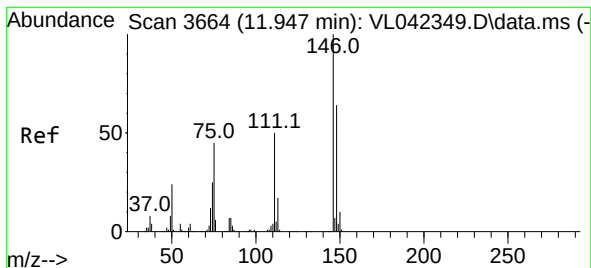
Delta R.T. -0.000 min

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 :

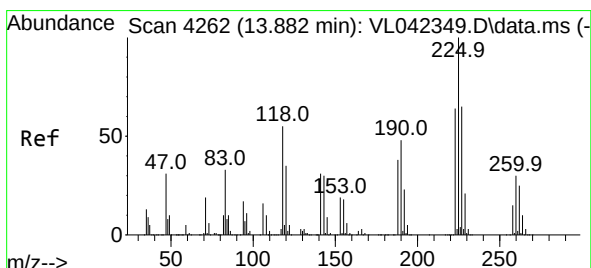
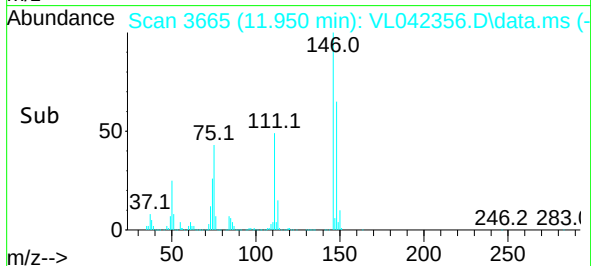
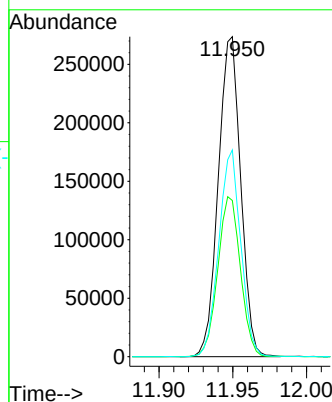
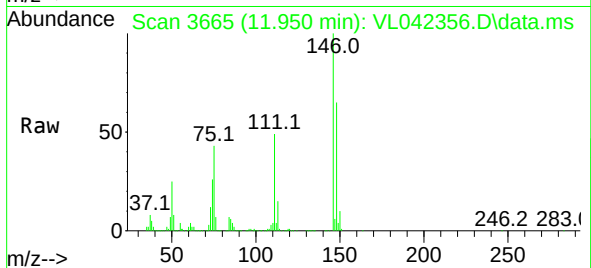
ICVVL041725

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

APPROVED

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



#78

Hexachloro-1,3-Butadiene

Concen: 8.771 ppbv

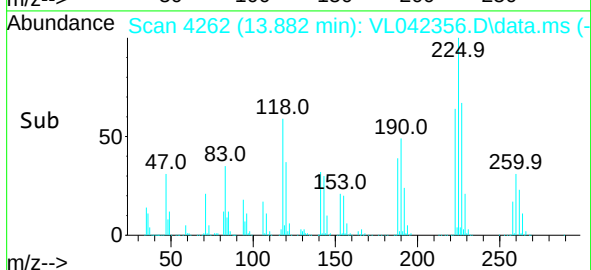
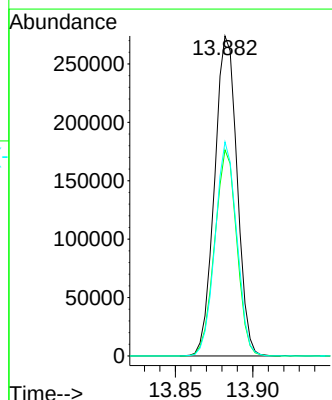
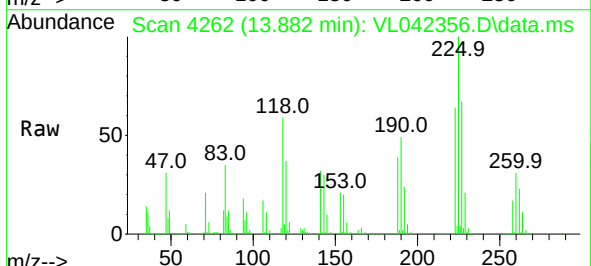
RT: 13.882 min Scan# 4262

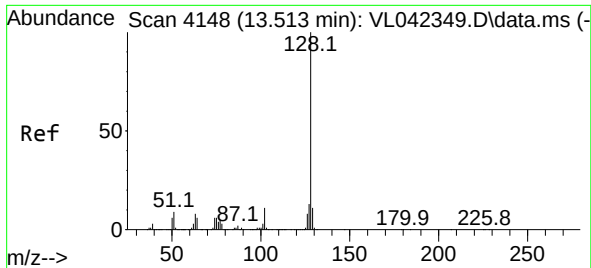
Delta R.T. -0.000 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

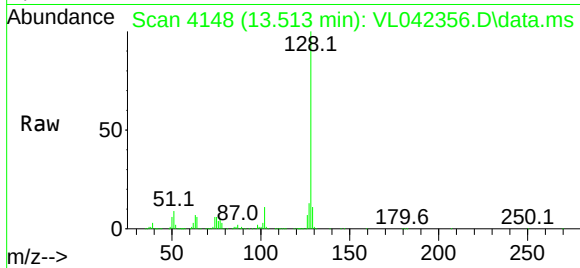
Tgt Ion:	225	Resp:	276960
Ion Ratio	Lower	Upper	
225	100		
223	63.0	50.3	75.5
227	64.5	51.5	77.3





#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

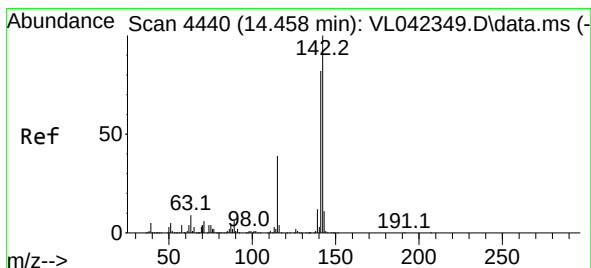
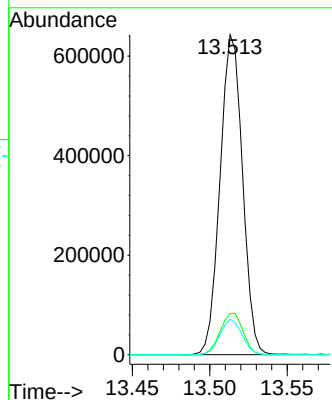
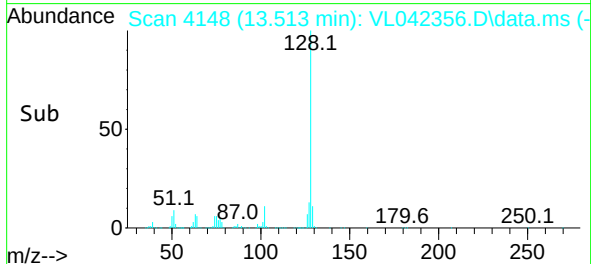
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725



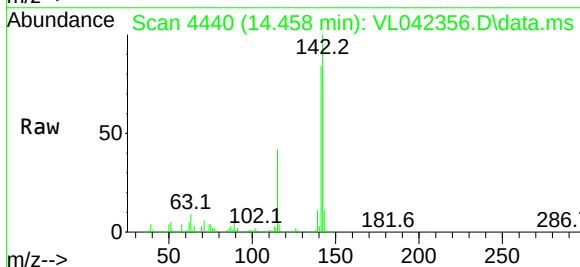
Tgt Ion:128 Resp: 647349
Ion Ratio Lower Upper
128 100
127 12.9 10.6 15.8
129 11.1 8.6 12.8

Manual Integrations
APPROVED

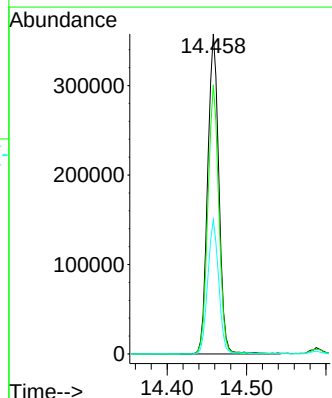
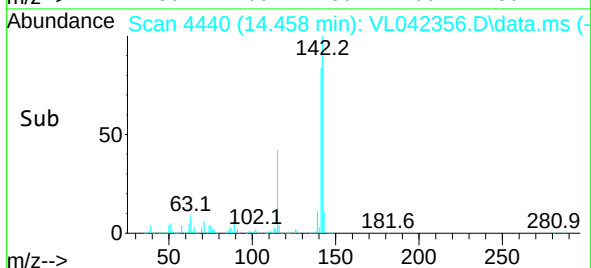
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

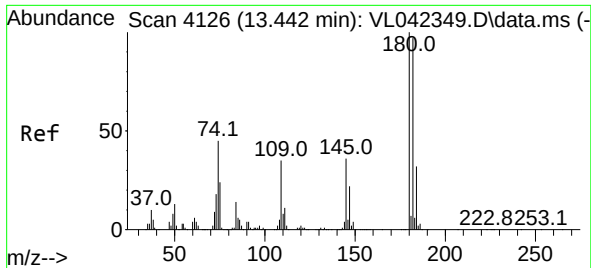


#80
Naphthalene,2-methyl-
Concen: 8.307 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43



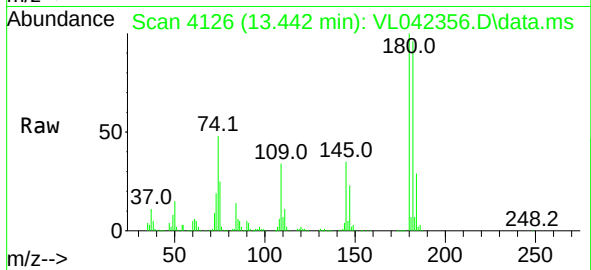
Tgt Ion:142 Resp: 350259
Ion Ratio Lower Upper
142 100
141 83.0 66.8 100.2
115 41.4 33.4 50.2





#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

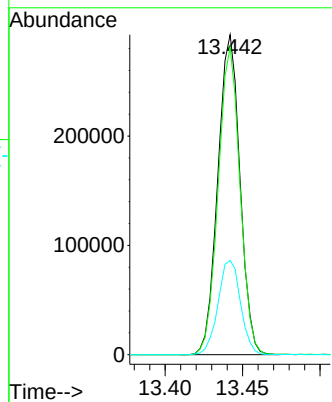
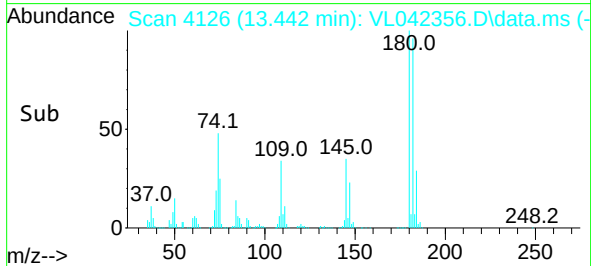
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL041725



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: WOOD06

Lab Code: CHEM Case No.: Q1726 SAS No.: Q1726 SDG No.: Q1726

Instrument ID: MSVOA_L Calibration Date/Time: 04/18/2025 10:23

Lab File ID: VL042383.D Init. Calib. Date(s): 04/17/2025 04/17/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 09:44 12:54

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

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Dichlorodifluoromethane	1.767	1.674		-5.26	30
Ethanol	0.122	0.032		-73.77	30
Chloromethane	0.699	0.624		-10.73	30
Vinyl Chloride	0.761	0.609		-19.97	30
Bromomethane	0.327	0.291		-11.01	30
Chloroethane	0.275	0.243		-11.64	30
Tetrahydrofuran	0.461	0.322		-30.15	30
Trichlorofluoromethane	1.680	1.623		-3.39	30
1,1,2-Trichlorotrifluoroethane	1.374	1.258		-8.44	30
Dichlorotetrafluoroethane	1.517	1.422		-6.26	30
Bromoethene	0.518	0.489		-5.6	30
tert-Butyl alcohol	2.029	1.695		-16.46	30
Heptane	2.153	1.559		-27.59	30
Isopropyl Alcohol	0.909	0.746		-17.93	30
1,1-Dichloroethene	0.642	0.585		-8.88	30
Acetone	1.637	1.266		-22.66	30
Carbon Disulfide	1.749	1.542		-11.84	30
Methyl tert-Butyl Ether	1.070	0.901		-15.79	30
Methylene Chloride	0.641	0.484		-24.49	30
trans-1,2-Dichloroethene	0.731	0.653		-10.67	30
1,1-Dichloroethane	1.388	1.276		-8.07	30
Cyclohexane	1.320	1.145		-13.26	30
2-Butanone	0.791	0.583		-26.3	30
Carbon Tetrachloride	0.905	0.787		-13.04	30
cis-1,2-Dichloroethene	1.553	1.398		-9.98	30
Chloroform	2.309	2.183		-5.46	30
1,1,1-Trichloroethane	2.599	2.364		-9.04	30
2,2,4-Trimethylpentane	1.863	1.374		-26.25	30
Benzene	1.079	0.846		-21.59	30
1,2-Dichloroethane	0.647	0.559		-13.6	30
Trichloroethene	0.471	0.375		-20.38	30
1,2-Dichloropropane	0.402	0.300		-25.37	30
Bromodichloromethane	0.901	0.778		-13.65	30
4-Methyl-2-Pentanone	1.314	0.854		-35.01	30
Toluene	1.294	1.021		-21.1	30
t-1,3-Dichloropropene	0.497	0.385		-22.53	30
cis-1,3-Dichloropropene	0.608	0.470		-22.7	30
1,1,2-Trichloroethane	0.410	0.336		-18.05	30

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: WOOD06

Lab Code: CHEM Case No.: Q1726 SAS No.: Q1726 SDG No.: Q1726

Instrument ID: MSVOA_L Calibration Date/Time: 04/18/2025 10:23

Lab File ID: VL042383.D Init. Calib. Date(s): 04/17/2025 04/17/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 09:44 12:54

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

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Dibromochloromethane	0.723	0.646		-10.65	30
1,2-Dibromoethane	0.586	0.489		-16.55	30
Tetrachloroethene	0.417	0.323		-22.54	30
Chlorobenzene	1.040	0.896		-13.85	30
Ethyl Benzene	1.981	1.636		-17.42	30
m/p-Xylene	1.596	1.335		-16.35	30
o-Xylene	1.607	1.332		-17.11	30
Styrene	0.767	0.633		-17.47	30
Bromoform	0.633	0.575		-9.16	30
1,1,2,2-Tetrachloroethane	1.042	0.783		-24.86	30
2-Chlorotoluene	1.851	1.537		-16.96	30
1,3,5-Trimethylbenzene	1.735	1.426		-17.81	30
1,2,4-Trimethylbenzene	2.026	1.579		-22.06	30
1,3-Dichlorobenzene	1.053	0.910		-13.58	30
1,4-Dichlorobenzene	1.059	0.897		-15.3	30
1,2-Dichlorobenzene	1.024	0.896		-12.5	30
1,2,4-Trichlorobenzene	1.040	0.909		-12.6	30
Hexachloro-1,3-Butadiene	1.034	0.937		-9.38	30
1,3-Butadiene	0.783	0.622		-20.56	30
Naphthalene	2.423	1.910		-21.17	30
4-Ethyltoluene	1.965	1.622		-17.45	30
1-Bromo-4-Fluorobenzene	0.822	0.815		-0.85	30
Hexane	1.633	1.305		-20.09	30
Allyl Chloride	1.130	0.934		-17.34	30
1,4-Dioxane	220.893	153.777		-30.38	30
Methyl Methacrylate	0.486	0.345		-29.01	30

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
 Data File : VL042383.D
 Acq On : 18 Apr 2025 10:23
 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 04/21/2025
 Supervised By :Mahesh Dadoda 04/21/2025

Quant Time: Apr 18 22:55:20 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	2.784	49	135964	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	427541	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	379215	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.370 95 309235 9.924 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 99.200%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.496	85	227548	9.472	ppbv	95
3) Chlorodifluoromethane	1.473	51	195422	8.543	ppbv	96
4) Chloromethane	1.531	50	84884	8.929	ppbv	96
5) Vinyl Chloride	1.576	62	82816	8.003	ppbv	97
6) Bromomethane	1.664	94	39633	8.916	ppbv	90
7) Chloroethane	1.703	64	33067	8.836	ppbv	96
8) Dichlorotetrafluoroethane	1.551	85	193310	9.373	ppbv	98
9) Propene	1.483	41	79602	7.641	ppbv	98
10) Heptane	4.968	43	211969	7.242	ppbv	97
11) Trichlorofluoromethane	1.874	101	220733	9.663	ppbv	94
12) 1,1,2-Trichlorotrifluo...	2.136	101	171052	9.158	ppbv	96
13) Ethanol	1.719	45	4291	2.592	ppbv	96
14) Bromoethene	1.777	108	66481	9.442	ppbv	99
15) Acetone	1.832	43	172096	7.732	ppbv	100
16) 1,3-Butadiene	1.606	39	84576	7.945	ppbv	96
17) tert-Butyl alcohol	2.036	59	230418	8.353	ppbv	100
18) 1,1-Dichloroethene	2.030	96	79587	9.121	ppbv	96
19) Isopropyl Alcohol	1.884	45	101483	8.208	ppbv	93
20) Methylene Chloride	2.059	84	65868	7.556	ppbv	96
21) Allyl Chloride	2.091	41	126980	8.263	ppbv	98
22) trans-1,2-Dichloroethene	2.337	96	88798	8.938	ppbv	98
23) Vinyl Acetate	2.457	43	64135	7.119	ppbv #	98
24) 1,1-Dichloroethane	2.405	63	173462	9.191	ppbv	99
25) Ethyl Acetate	2.832	43	441499	8.045	ppbv	100
26) Hexane	2.819	57	177427	7.989	ppbv	95
27) Carbon Disulfide	2.146	76	209681	8.818	ppbv	98
28) Methyl tert-Butyl Ether	2.437	73	122464	8.416	ppbv	92
29) Chloroform	2.842	83	296747	9.453	ppbv	96
30) Cyclohexane	3.849	84	155716	8.673	ppbv	94
31) cis-1,2-Dichloroethene	2.716	61	190037	9.000	ppbv	98
32) 1,1,1-Trichloroethane	3.363	97	321462	9.097	ppbv	99
34) 2-Butanone	2.554	43	249113	7.367	ppbv	98
35) Carbon Tetrachloride	3.755	117	336452	8.695	ppbv	97
36) Benzene	3.648	78	361650	7.842	ppbv	97
37) 1,2-Dichloroethane	3.214	62	239079	8.638	ppbv	98
38) Trichloroethene	4.541	130	160521	7.964	ppbv	96
39) 1,2-Dichloropropane	4.305	63	128161	7.458	ppbv	95
40) 1,4-Dioxane	4.574	88	65746	6.962	ppbv #	92
41) Tetrahydrofuran	3.049	42	137694	6.984	ppbv	97
42) Bromodichloromethane	4.483	83	332490	8.632	ppbv	99
43) Methyl Methacrylate	4.871	69	147517	7.098	ppbv	99
44) 2,2,4-Trimethylpentane	4.629	57	587274	7.374	ppbv	98
45) t-1,3-Dichloropropene	6.402	75	164658	7.756	ppbv	95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
 Data File : VL042383.D
 Acq On : 18 Apr 2025 10:23
 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 04/21/2025
 Supervised By :Mahesh Dadoda 04/21/2025

Quant Time: Apr 18 22:55:20 2025

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

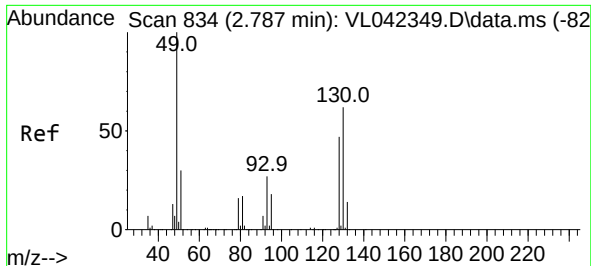
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

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

Response via : Initial Calibration

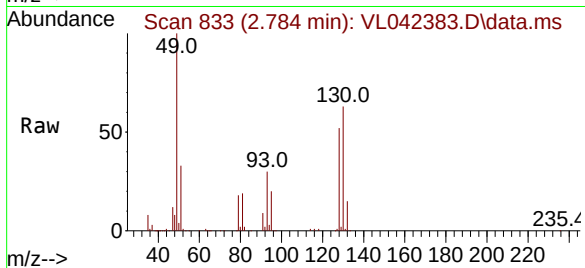
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	200823	7.729	ppbv	92
47) 1,1,2-Trichloroethane	6.571	97	143547	8.199	ppbv	94
48) Dibromochloromethane	7.380	129	276258	8.931	ppbv	99
49) Bromoform	9.477	173	245731	9.086	ppbv	98
50) 4-Methyl-2-Pentanone	5.742	43	365292	6.501	ppbv	99
51) 2-Hexanone	7.428	43	296019	5.874	ppbv #	98
52) Tetrachloroethene	8.218	164	138295	7.759	ppbv	96
53) Toluene	6.927	91	436388	7.886	ppbv	99
54) 1,2-Dibromoethane	7.645	107	209152	8.347	ppbv	90
56) 1,1,1,2-Tetrachloroethane	8.917	131	207437	9.038	ppbv	99
57) Chlorobenzene	8.917	112	339932	8.619	ppbv	95
58) Ethyl Benzene	9.351	91	620425	8.258	ppbv	99
59) m/p-Xylene	9.545	91	1012385m	16.726	ppbv	
60) o-Xylene	9.959	91	505258	8.290	ppbv	100
61) Styrene	9.865	104	240108	8.253	ppbv	99
62) Isopropylbenzene	10.535	105	753628	8.422	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.959	83	297020	7.520	ppbv	98
64) n-propylbenzene	10.985	120	191951	8.534	ppbv	91
65) tert-Butylbenzene	11.529	119	688133	8.367	ppbv	93
66) Benzyl Chloride	11.610	91	60227	6.664	ppbv	96
67) sec-Butylbenzene	11.762	105	948966	8.295	ppbv	98
69) p-Isopropyltoluene	11.924	119	826443	8.315	ppbv	100
70) n-Butylbenzene	12.277	91	832220	8.039	ppbv	99
71) 2-Chlorotoluene	10.898	91	582951	8.306	ppbv	100
72) 4-Ethyltoluene	11.121	105	615202	8.256	ppbv	99
73) 1,3,5-Trimethylbenzene	11.199	105	540783	8.220	ppbv	98
74) 1,2,4-Trimethylbenzene	11.536	105	598825	7.794	ppbv	98
75) 1,3-Dichlorobenzene	11.604	146	345226	8.644	ppbv	99
76) 1,4-Dichlorobenzene	11.668	146	340293	8.477	ppbv	99
77) 1,2-Dichlorobenzene	11.943	146	339821	8.751	ppbv	99
78) Hexachloro-1,3-Butadiene	13.879	225	355324	9.061	ppbv	99
79) Naphthalene	13.510	128	724361	7.884	ppbv	99
80) Naphthalene,2-methyl-	14.455	142	396207	7.566	ppbv	98
81) 1,2,4-Trichlorobenzene	13.439	180	344709	8.737	ppbv	100

(#) = 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: VL042383.D
Acq: 18 Apr 2025 10:23

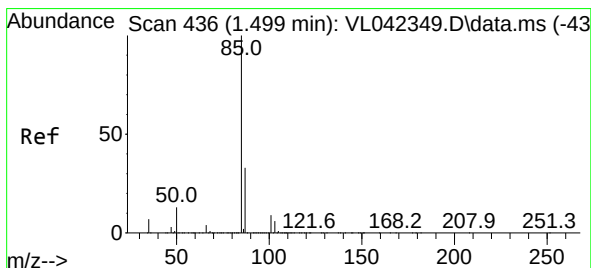
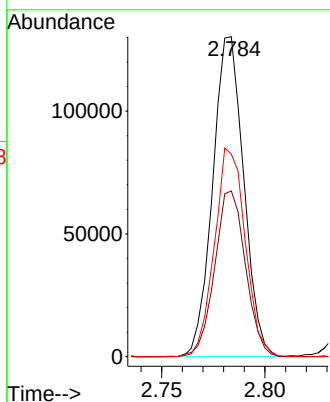
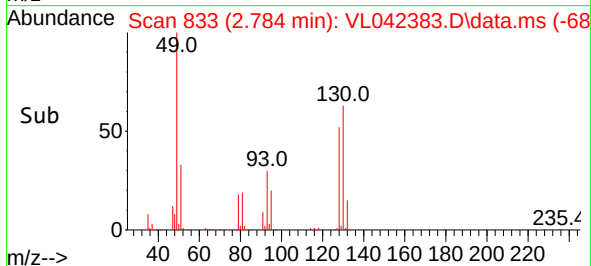
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion: 49 Resp: 135964
Ion Ratio Lower Upper
49 100
128 51.7 22.8 68.4
130 64.8 29.3 88.0

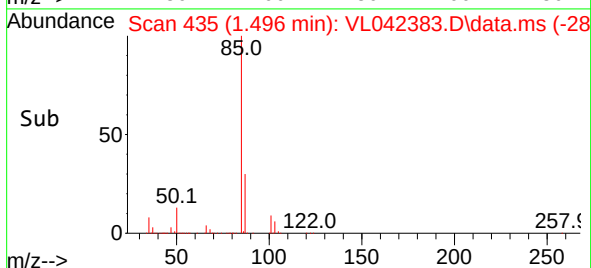
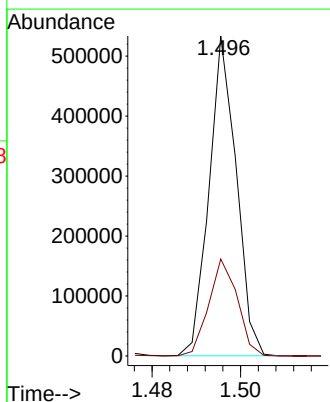
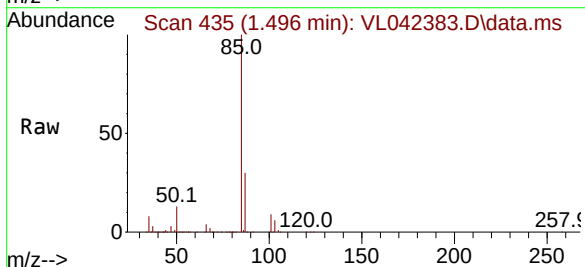
Manual Integrations
APPROVED

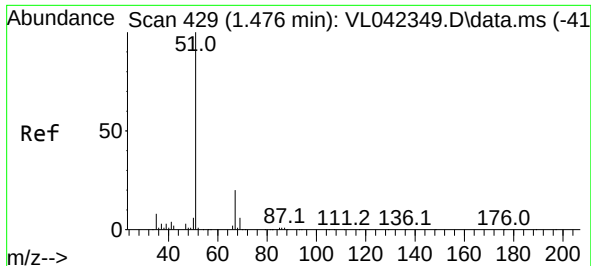
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025



#2
Dichlorodifluoromethane
Concen: 9.472 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

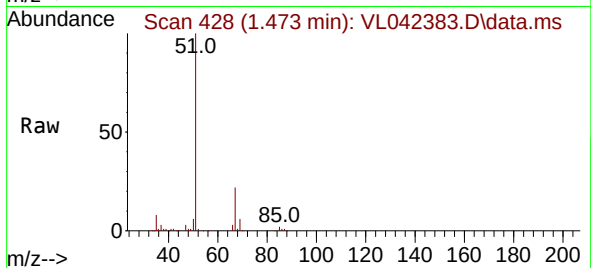
Tgt Ion: 85 Resp: 227548
Ion Ratio Lower Upper
85 100
87 30.3 26.6 39.8





#3
Chlorodifluoromethane
Concen: 8.543 ppbv
RT: 1.473 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

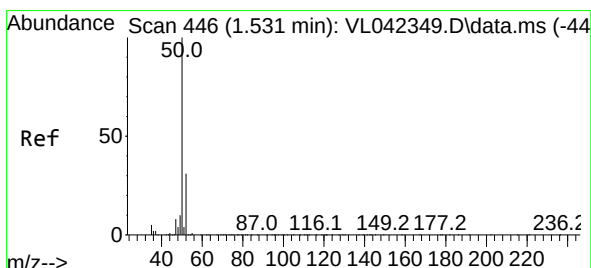
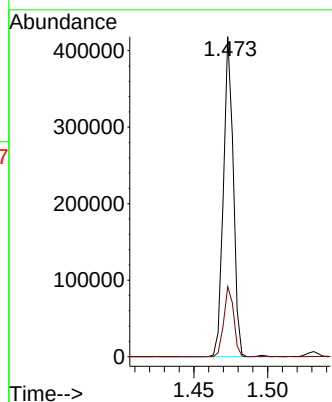
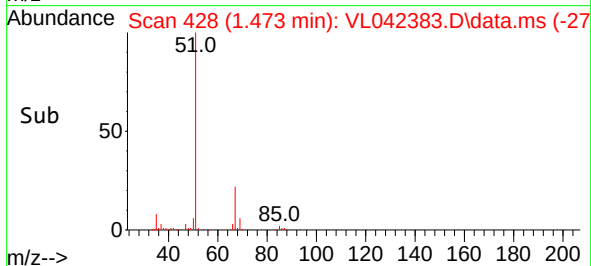
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



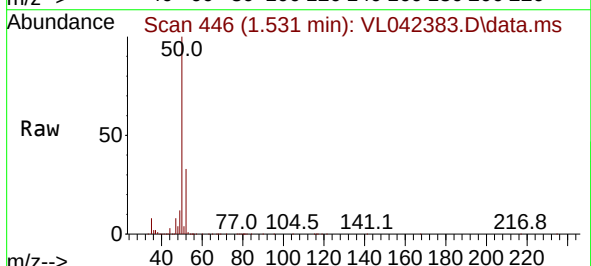
Tgt Ion: 51 Resp: 19542
Ion Ratio Lower Upper
51 100
67 22.1 16.2 24.4

Manual Integrations
APPROVED

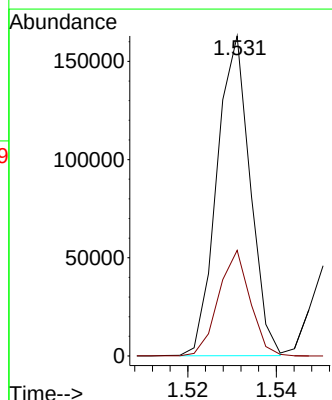
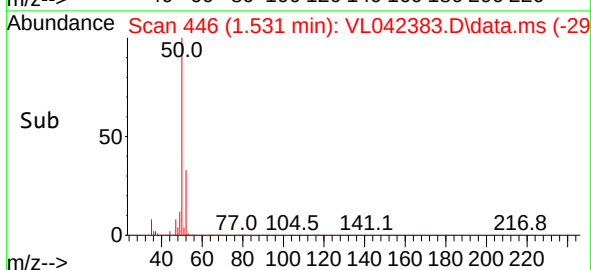
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

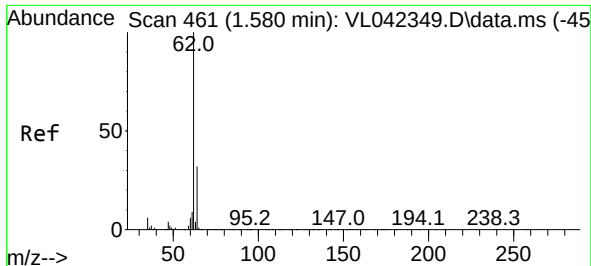


#4
Chloromethane
Concen: 8.929 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23



Tgt Ion: 50 Resp: 84884
Ion Ratio Lower Upper
50 100
52 33.0 24.7 37.1





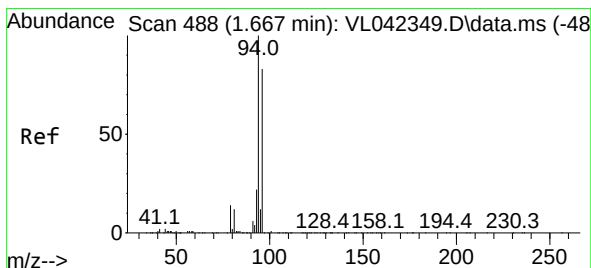
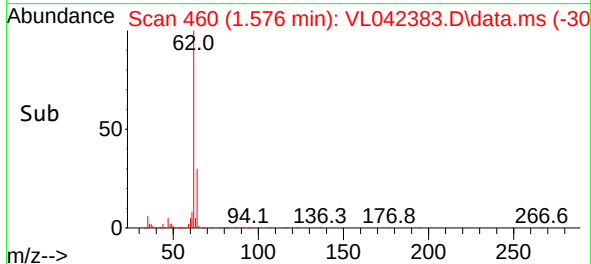
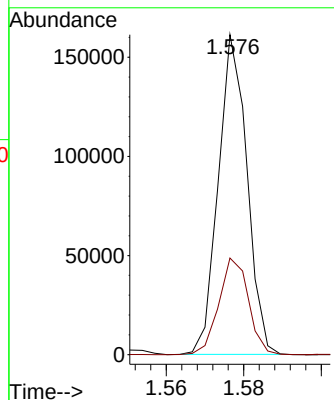
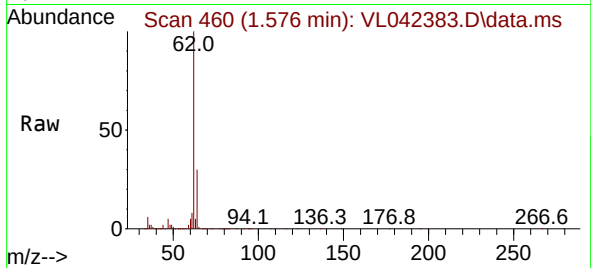
#5
Vinyl Chloride
Concen: 8.003 ppbv
RT: 1.576 min Scan# 460
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 62 Resp: 82810
Ion Ratio Lower Upper
62 100
64 30.2 25.4 38.0

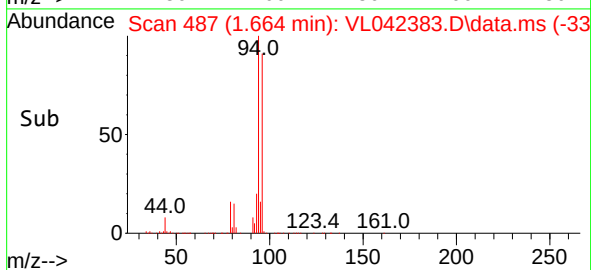
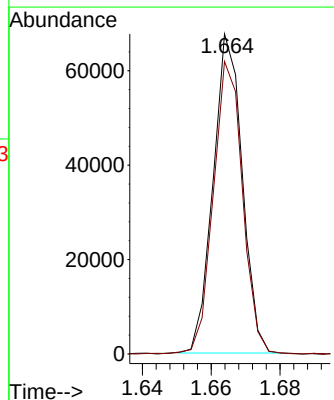
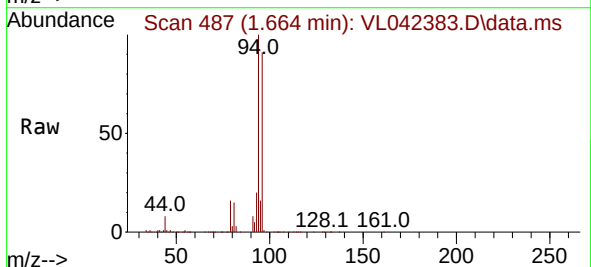
Manual Integrations
APPROVED

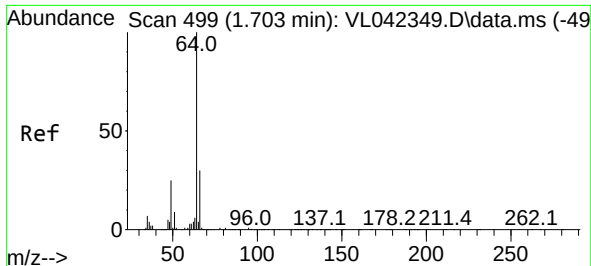
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025



#6
Bromomethane
Concen: 8.916 ppbv
RT: 1.664 min Scan# 487
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

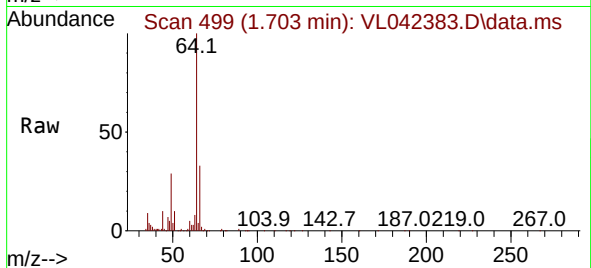
Tgt Ion: 94 Resp: 39633
Ion Ratio Lower Upper
94 100
96 91.3 66.2 99.2





#7
Chloroethane
Concen: 8.836 ppbv
RT: 1.703 min Scan# 499
Delta R.T. 0.000 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

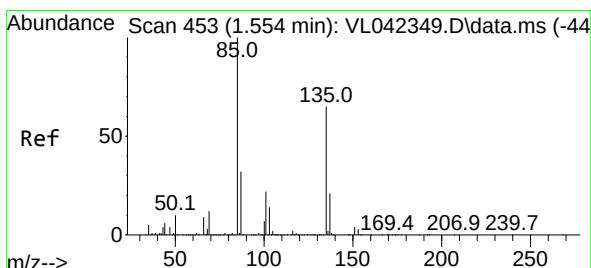
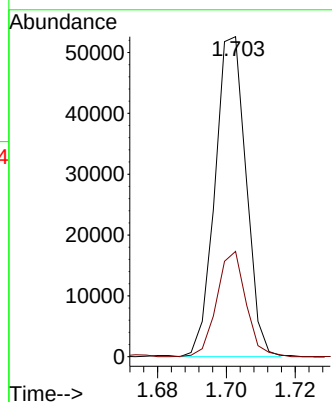
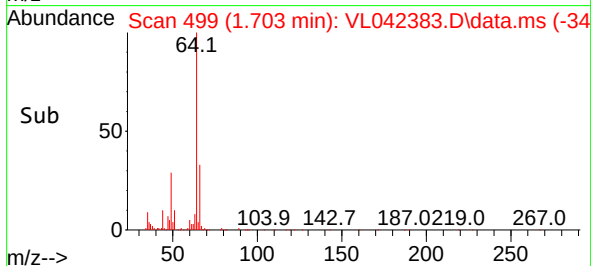
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion: 64 Resp: 3306
Ion Ratio Lower Upper
64 100
66 32.9 24.6 37.0

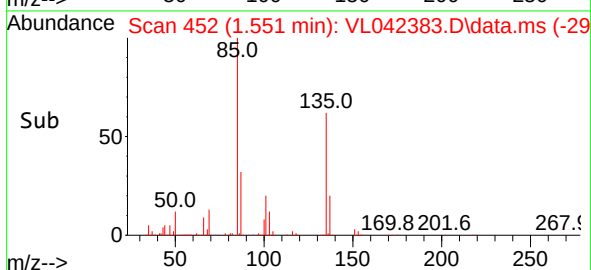
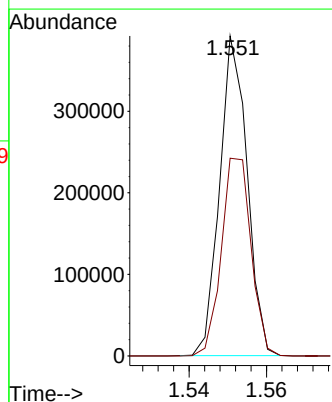
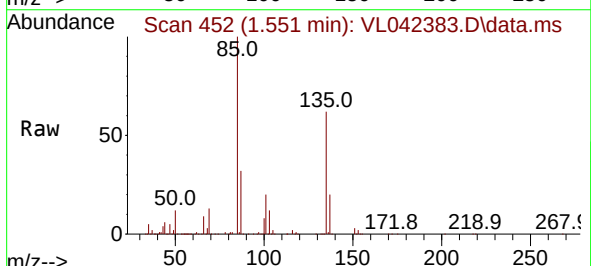
Manual Integrations
APPROVED

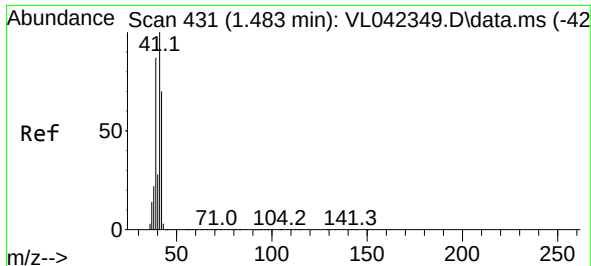
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025



#8
Dichlorotetrafluoroethane
Concen: 9.373 ppbv
RT: 1.551 min Scan# 452
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

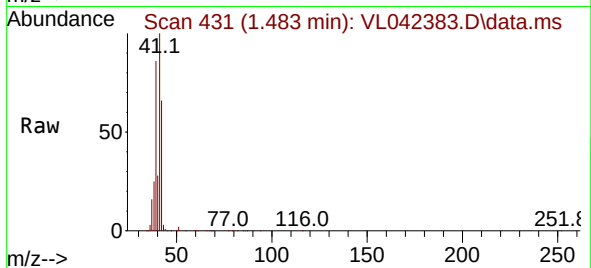
Tgt Ion: 85 Resp: 193310
Ion Ratio Lower Upper
85 100
135 67.2 52.2 78.2





#9
 Propene
 Concen: 7.641 ppbv
 RT: 1.483 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL042383.D
 Acq: 18 Apr 2025 10:23

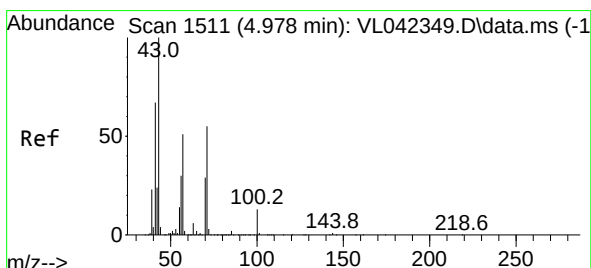
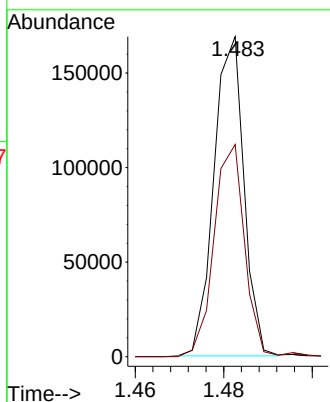
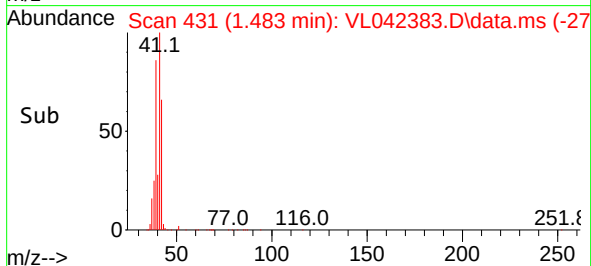
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



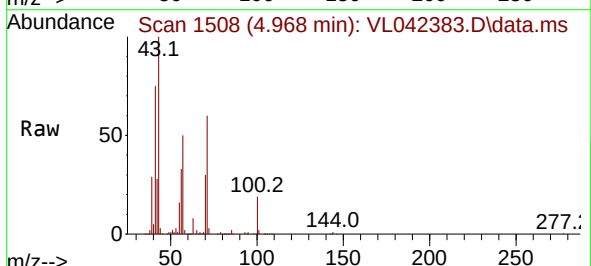
Tgt Ion: 41 Resp: 79602
 Ion Ratio Lower Upper
 41 100
 42 68.6 56.2 84.4

Manual Integrations
 APPROVED

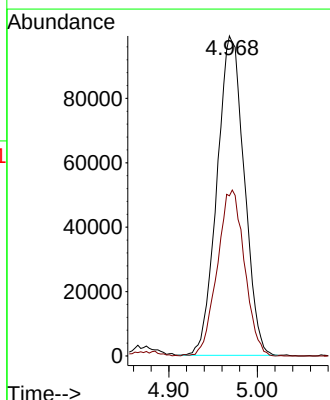
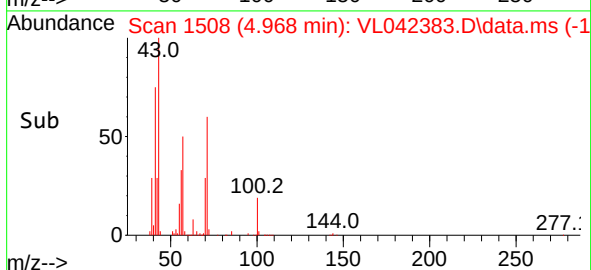
Reviewed By :Semsettin Yesilyurt 04/21/2025
 Supervised By :Mahesh Dadoda 04/21/2025

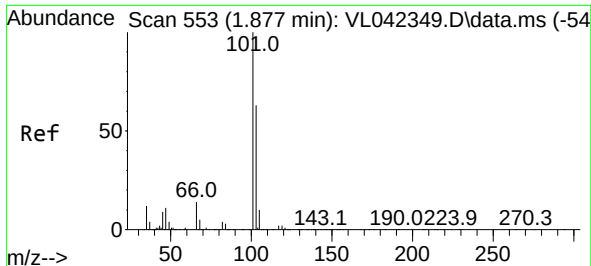


#10
 Heptane
 Concen: 7.242 ppbv
 RT: 4.968 min Scan# 1508
 Delta R.T. -0.010 min
 Lab File: VL042383.D
 Acq: 18 Apr 2025 10:23



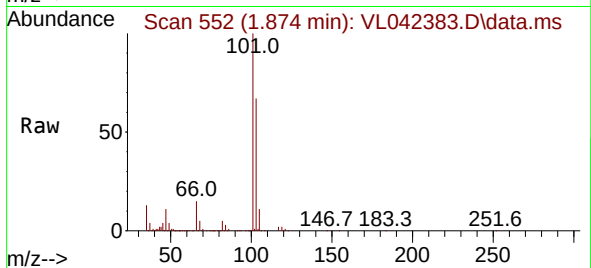
Tgt Ion: 43 Resp: 211969
 Ion Ratio Lower Upper
 43 100
 57 52.0 39.9 59.9





#11
Trichlorofluoromethane
Concen: 9.663 ppbv
RT: 1.874 min Scan# 511
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

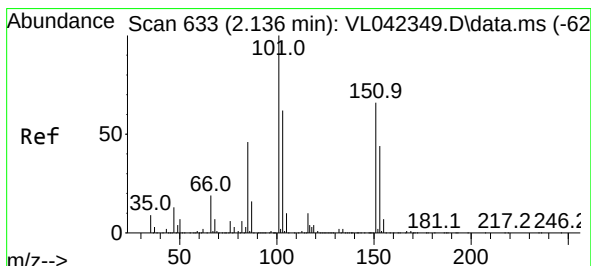
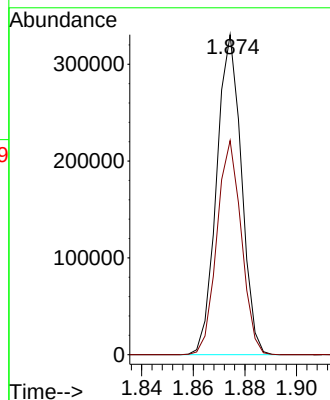
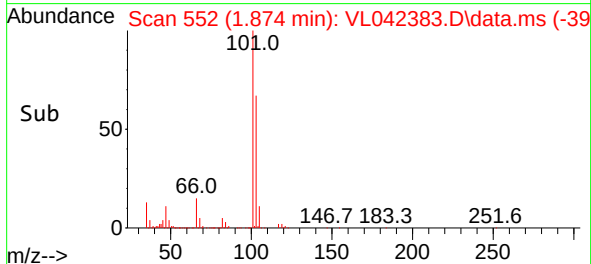
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



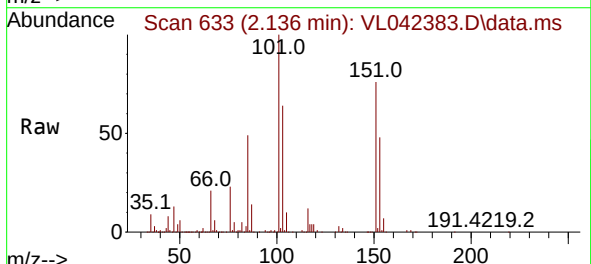
Tgt Ion:101 Resp: 220733
Ion Ratio Lower Upper
101 100
103 66.9 50.1 75.1

Manual Integrations
APPROVED

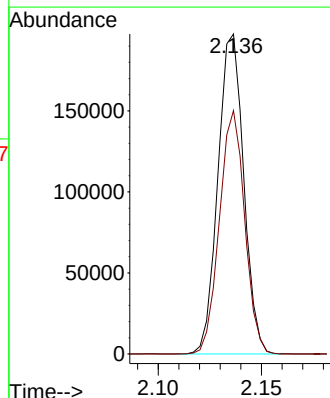
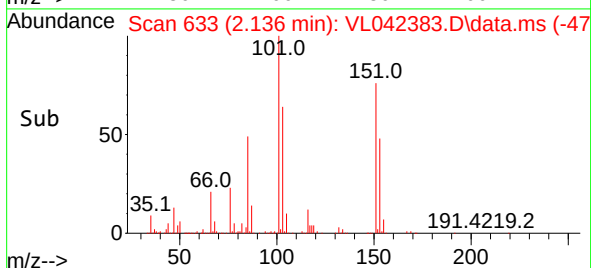
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

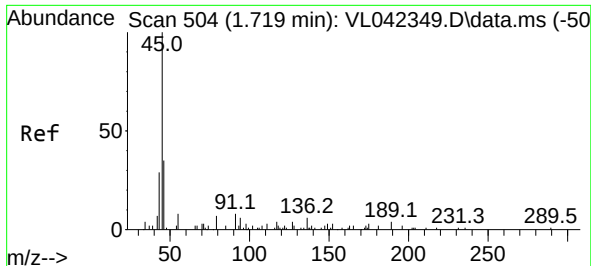


#12
1,1,2-Trichlorotrifluoroethane
Concen: 9.158 ppbv
RT: 2.136 min Scan# 633
Delta R.T. 0.000 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23



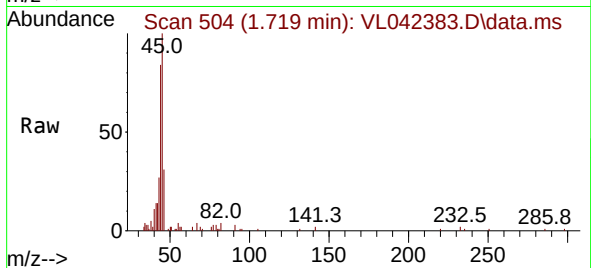
Tgt Ion:101 Resp: 171052
Ion Ratio Lower Upper
101 100
151 74.6 57.0 85.6





#13
Ethanol
Concen: 2.592 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

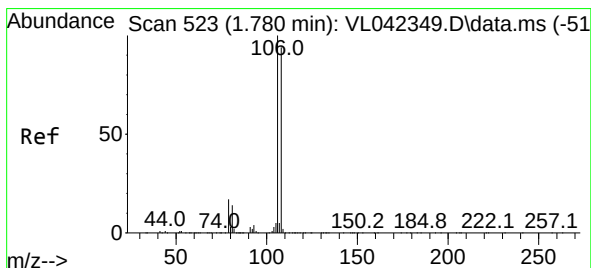
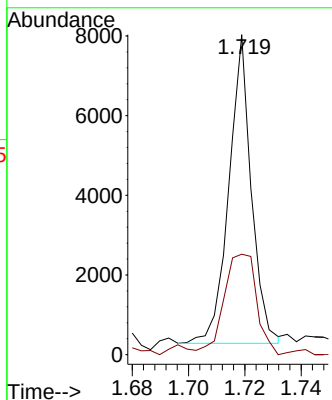
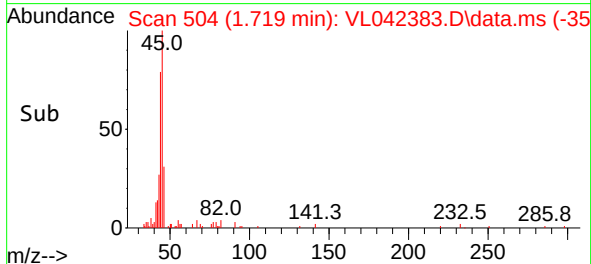
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



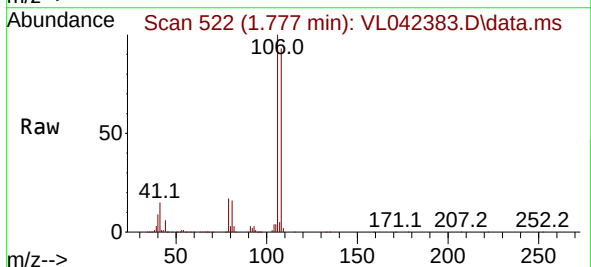
Tgt Ion: 45 Resp: 429
Ion Ratio Lower Upper
45 100
46 51.9 21.9 87.7

Manual Integrations
APPROVED

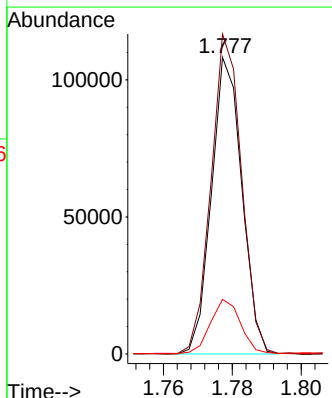
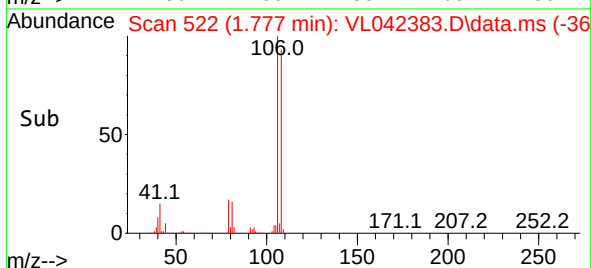
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

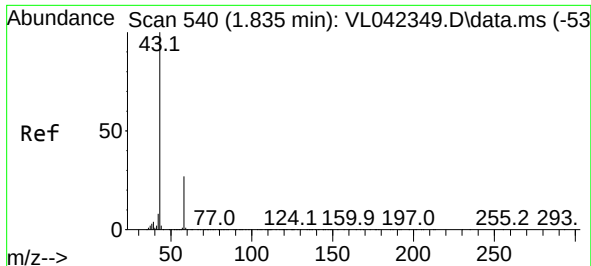


#14
Bromoethene
Concen: 9.442 ppbv
RT: 1.777 min Scan# 522
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23



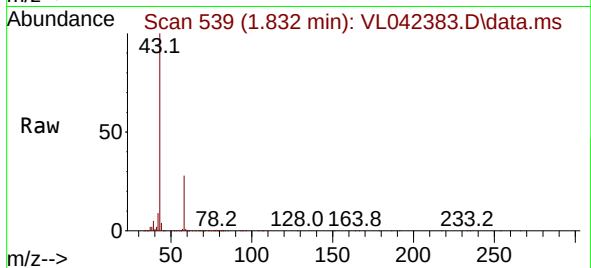
Tgt Ion:108 Resp: 66481
Ion Ratio Lower Upper
108 100
106 108.2 85.9 128.9
79 19.6 13.9 20.9





#15
Acetone
Concen: 7.732 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

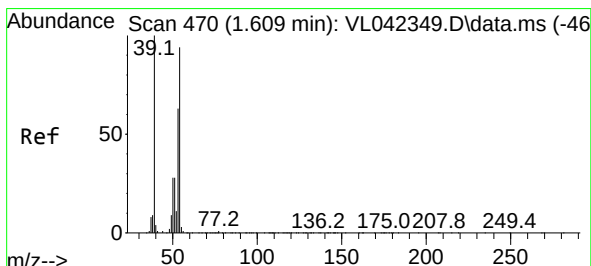
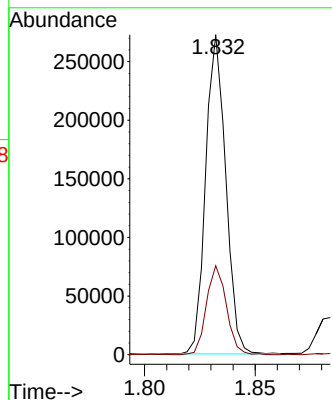
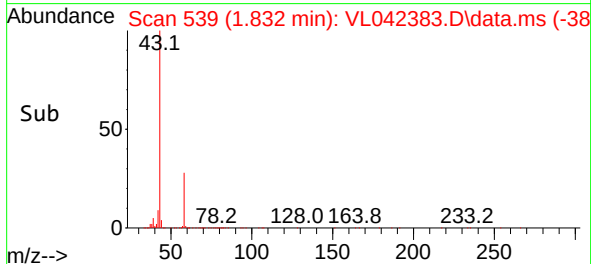
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion: 43 Resp: 172090
Ion Ratio Lower Upper
43 100
58 28.0 22.4 33.6

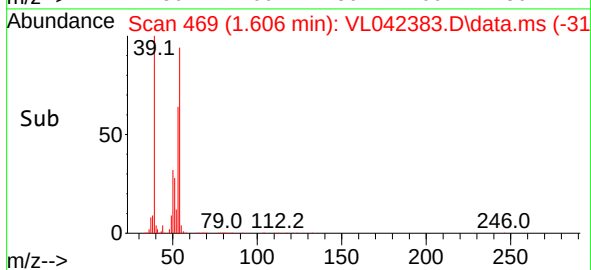
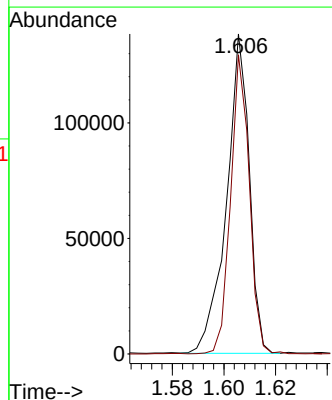
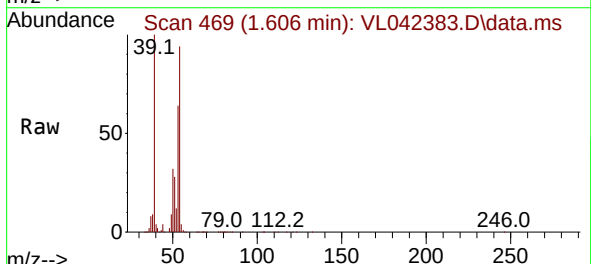
Manual Integrations
APPROVED

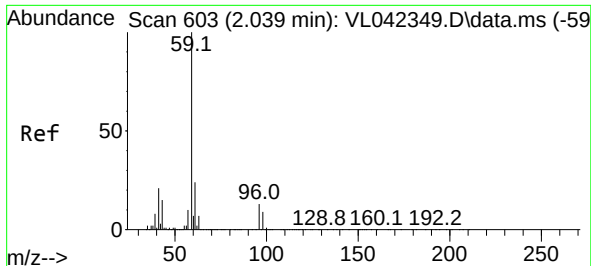
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025



#16
1,3-Butadiene
Concen: 7.945 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 39 Resp: 84576
Ion Ratio Lower Upper
39 100
54 77.5 64.9 97.3





#17

tert-Butyl alcohol

Concen: 8.353 ppbv

RT: 2.036 min Scan# 603

Delta R.T. -0.003 min

Lab File: VL042383.D

Acq: 18 Apr 2025 10:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 59 Resp: 230418

Ion Ratio Lower Upper

59 100

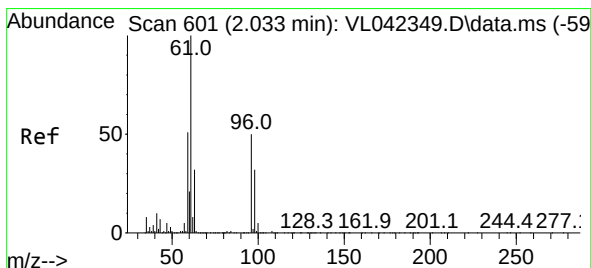
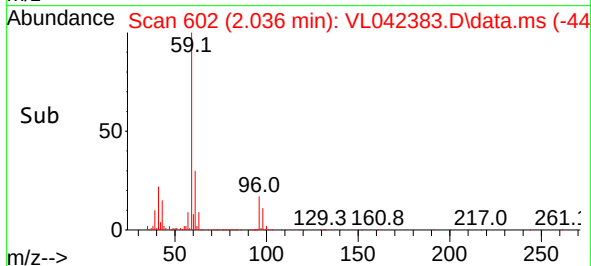
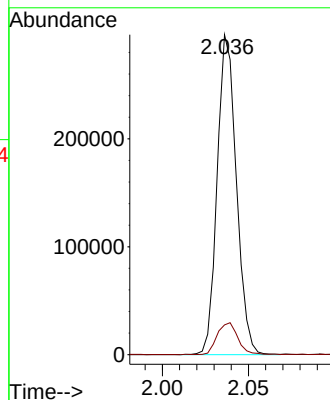
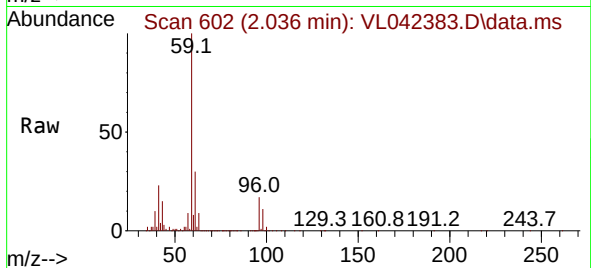
57 11.0 8.7 13.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2025

Supervised By :Mahesh Dadoda 04/21/2025



#18

1,1-Dichloroethene

Concen: 9.121 ppbv

RT: 2.030 min Scan# 600

Delta R.T. -0.003 min

Lab File: VL042383.D

Acq: 18 Apr 2025 10:23

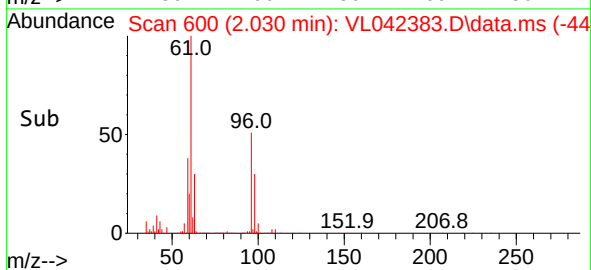
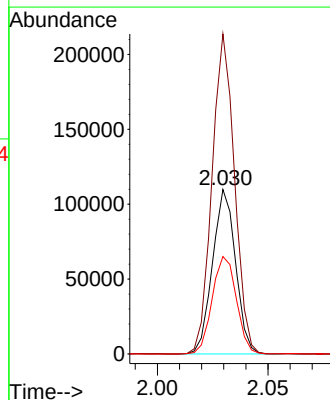
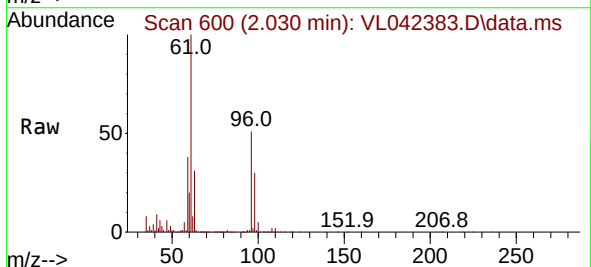
Tgt Ion: 96 Resp: 79587

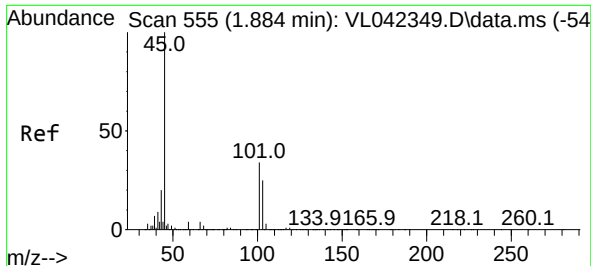
Ion Ratio Lower Upper

96 100

61 194.6 160.2 240.2

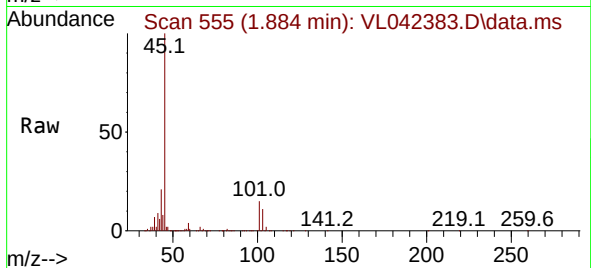
98 59.2 51.0 76.4





#19
Isopropyl Alcohol
Concen: 8.208 ppbv
RT: 1.884 min Scan# 511
Delta R.T. 0.000 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

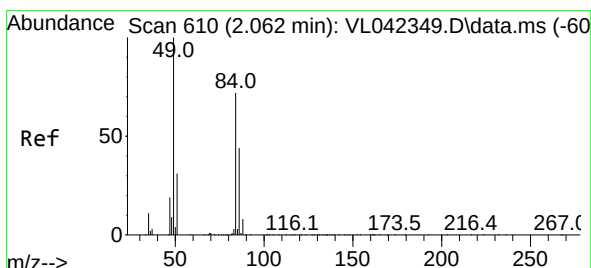
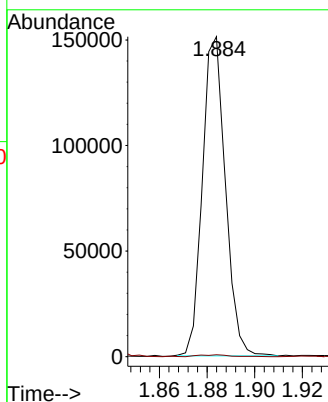
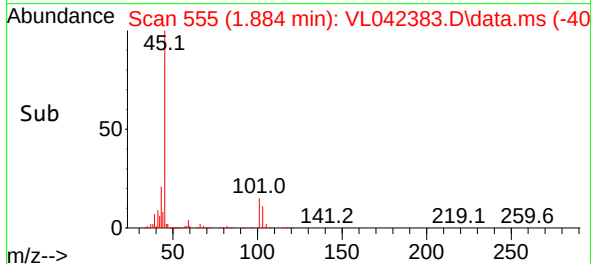
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



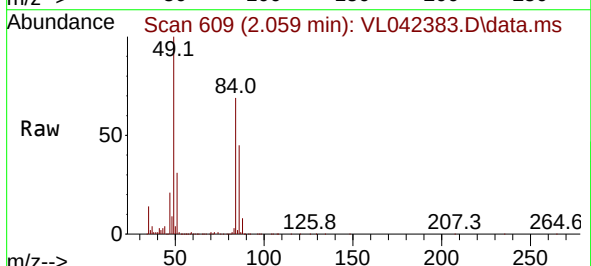
Tgt Ion: 45 Resp: 101483
Ion Ratio Lower Upper
45 100
58 47.5 34.5 51.7

Manual Integrations
APPROVED

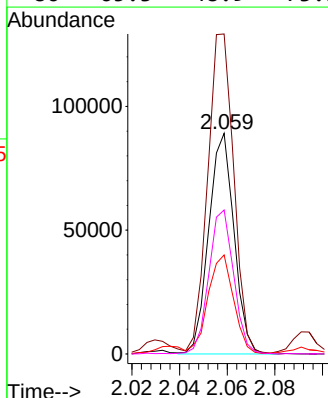
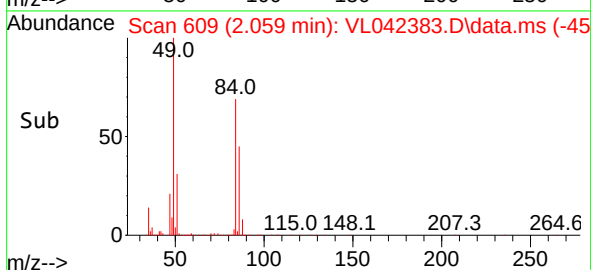
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

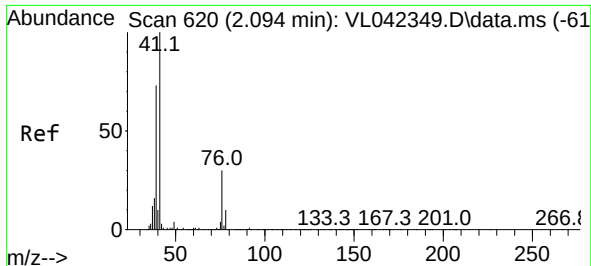


#20
Methylene Chloride
Concen: 7.556 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23



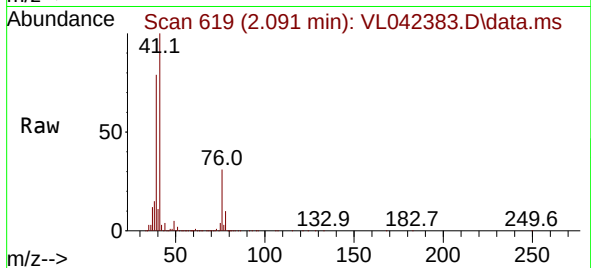
Tgt Ion: 84 Resp: 65868
Ion Ratio Lower Upper
84 100
49 143.9 111.6 167.4
51 44.2 35.1 52.7
86 65.3 48.9 73.3





#21
 Allyl Chloride
 Concen: 8.263 ppbv
 RT: 2.091 min Scan# 619
 Delta R.T. -0.003 min
 Lab File: VL042383.D
 Acq: 18 Apr 2025 10:23

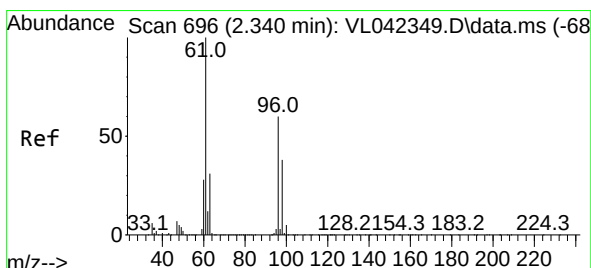
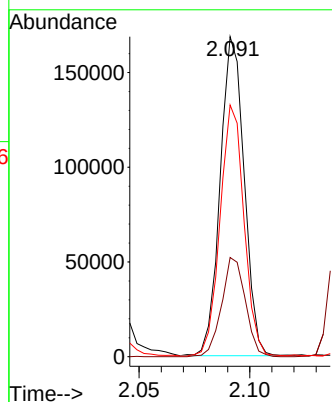
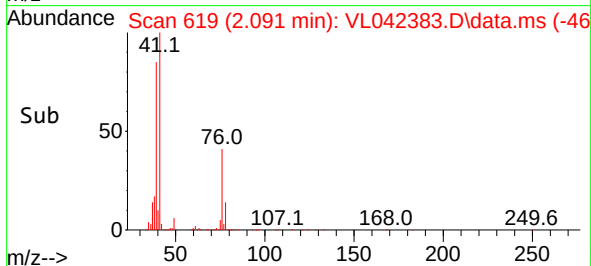
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



Tgt Ion: 41 Resp: 126980
 Ion Ratio Lower Upper
 41 100
 76 30.8 24.8 37.2
 39 78.2 60.6 90.8

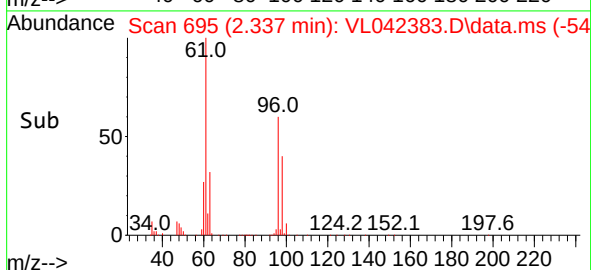
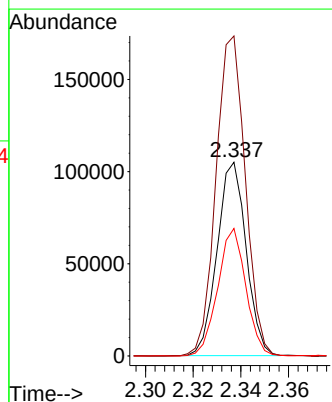
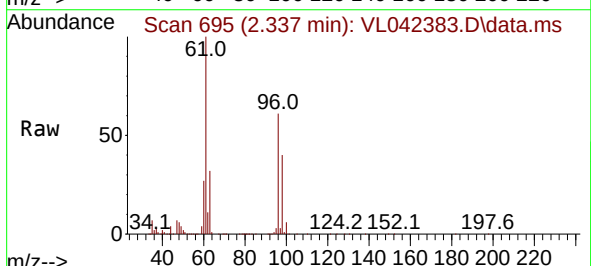
Manual Integrations
 APPROVED

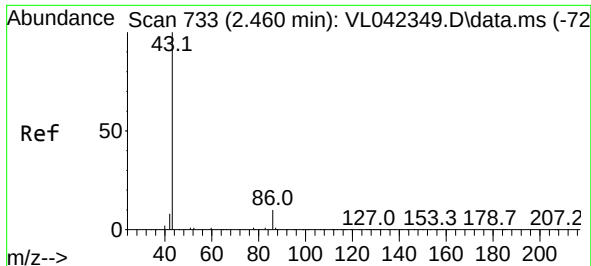
Reviewed By :Semsettin Yesilyurt 04/21/2025
 Supervised By :Mahesh Dadoda 04/21/2025



#22
 trans-1,2-Dichloroethene
 Concen: 8.938 ppbv
 RT: 2.337 min Scan# 695
 Delta R.T. -0.003 min
 Lab File: VL042383.D
 Acq: 18 Apr 2025 10:23

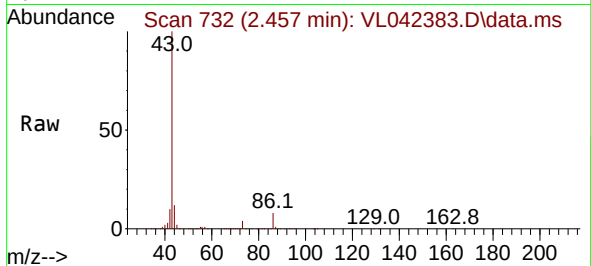
Tgt Ion: 96 Resp: 88798
 Ion Ratio Lower Upper
 96 100
 61 165.4 133.7 200.5
 98 65.9 50.3 75.5





#23
 Vinyl Acetate
 Concen: 7.119 ppbv
 RT: 2.457 min Scan# 716
 Delta R.T. -0.003 min
 Lab File: VL042383.D
 Acq: 18 Apr 2025 10:23

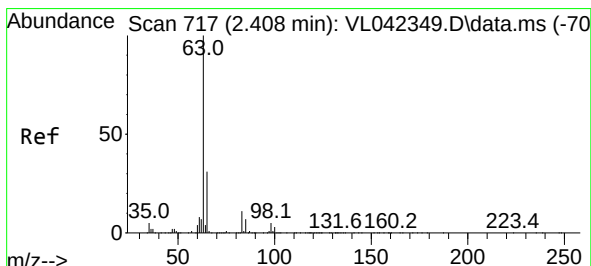
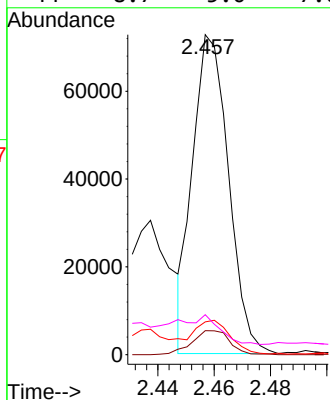
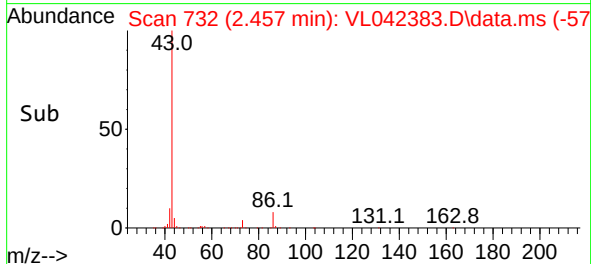
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



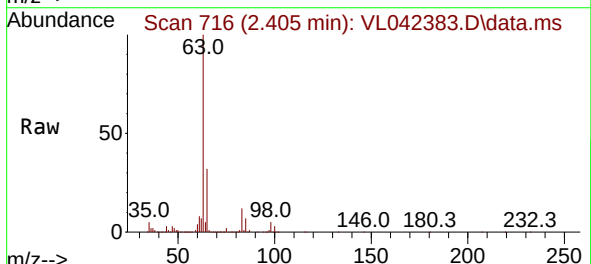
Tgt Ion: 43 Resp: 64135
 Ion Ratio Lower Upper
 43 100
 86 7.5 6.5 9.7
 42 9.8 7.8 11.8
 44 8.7 5.0 7.6#

Manual Integrations
 APPROVED

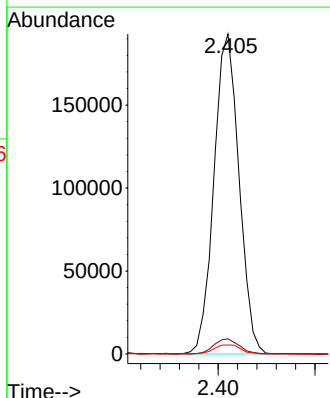
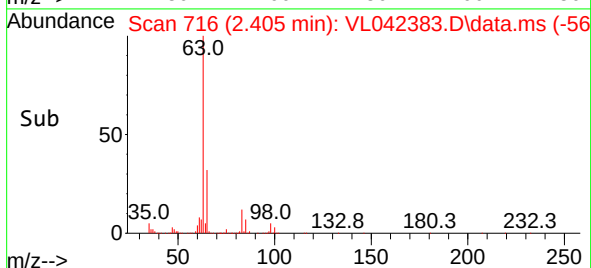
Reviewed By :Semsettin Yesilyurt 04/21/2025
 Supervised By :Mahesh Dadoda 04/21/2025

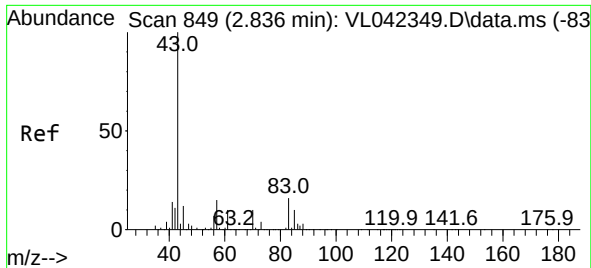


#24
 1,1-Dichloroethane
 Concen: 9.191 ppbv
 RT: 2.405 min Scan# 716
 Delta R.T. -0.003 min
 Lab File: VL042383.D
 Acq: 18 Apr 2025 10:23



Tgt Ion: 63 Resp: 173462
 Ion Ratio Lower Upper
 63 100
 98 4.7 2.3 6.8
 100 2.8 1.6 4.8





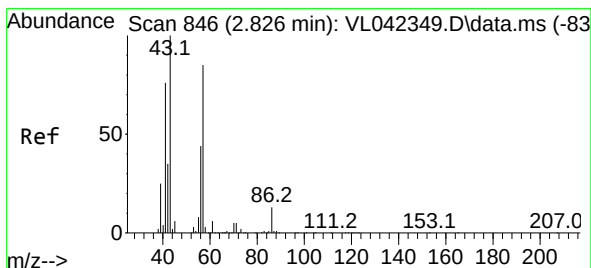
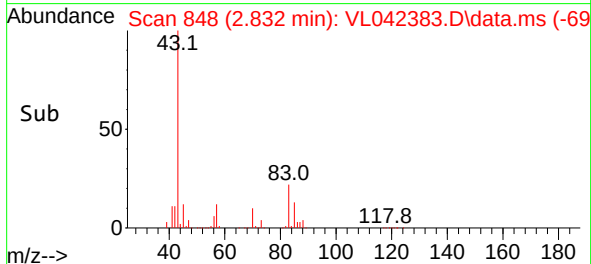
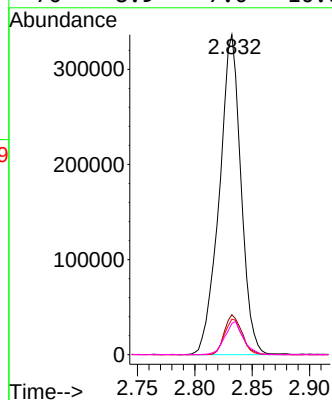
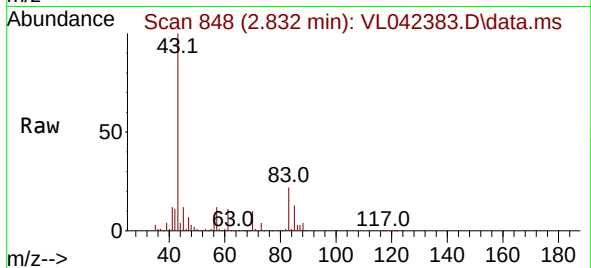
#25
Ethyl Acetate
Concen: 8.045 ppbv
RT: 2.832 min Scan# 844
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 43 Resp: 441499
Ion Ratio Lower Upper
43 100
45 10.2 8.3 12.5
61 9.0 7.3 10.9
70 8.9 7.0 10.6

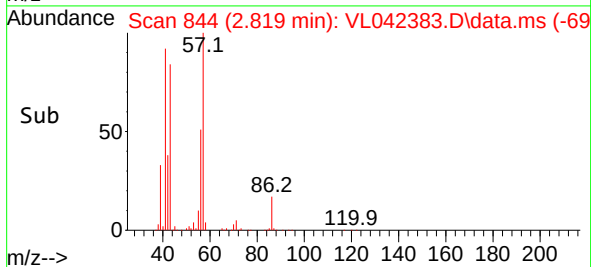
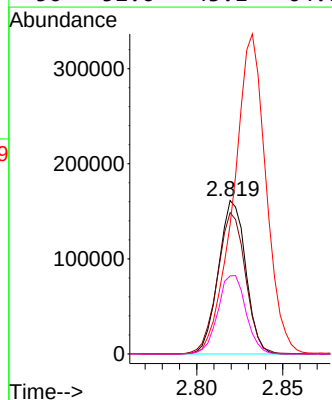
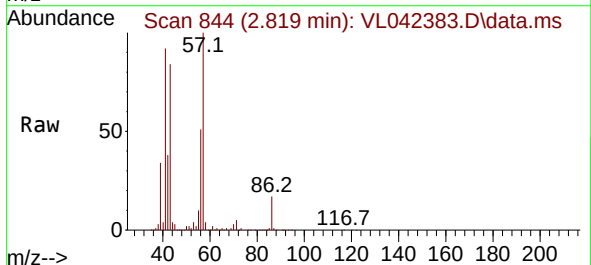
Manual Integrations
APPROVED

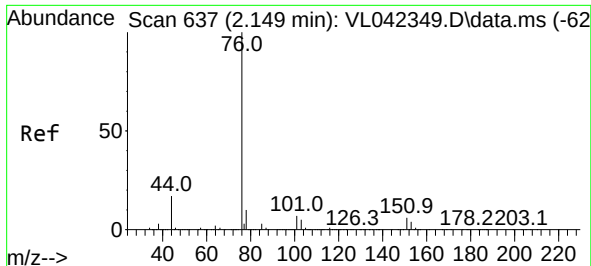
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025



#26
Hexane
Concen: 7.989 ppbv
RT: 2.819 min Scan# 844
Delta R.T. -0.006 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

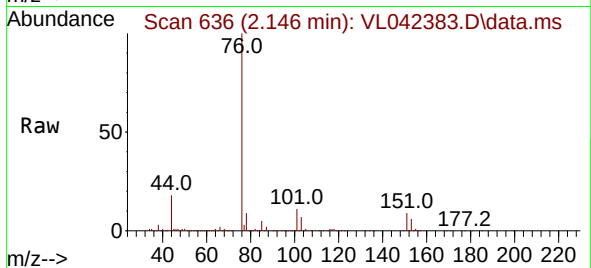
Tgt Ion: 57 Resp: 177427
Ion Ratio Lower Upper
57 100
41 95.1 77.9 116.9
43 249.3 208.4 312.6
56 52.6 43.1 64.7





#27
Carbon Disulfide
Concen: 8.818 ppbv
RT: 2.146 min Scan# 61
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

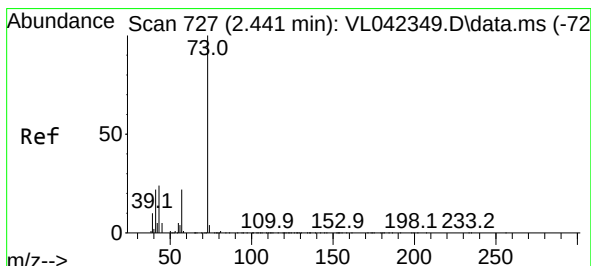
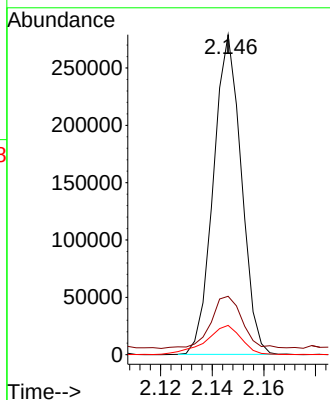
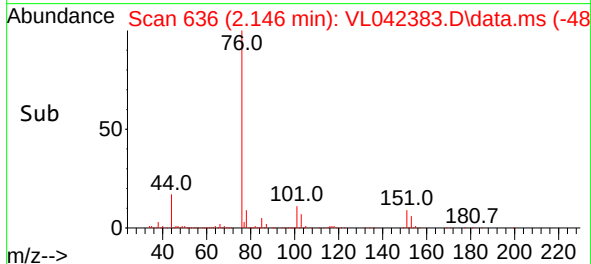
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



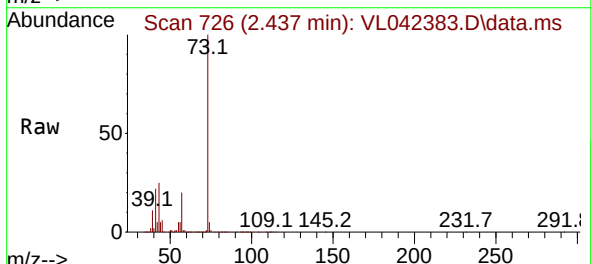
Tgt Ion: 76 Resp: 20968
Ion Ratio Lower Upper
76 100
44 17.8 15.5 23.3
78 11.8 9.3 13.9

Manual Integrations
APPROVED

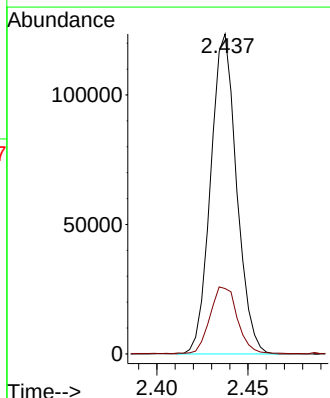
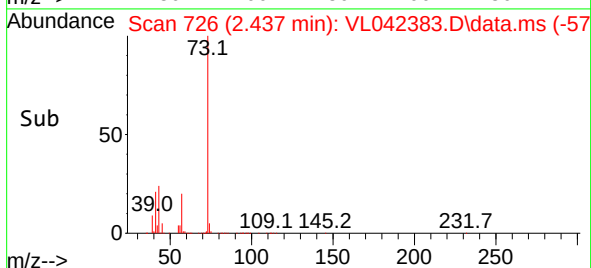
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

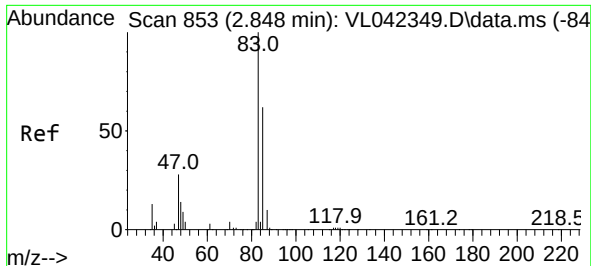


#28
Methyl tert-Butyl Ether
Concen: 8.416 ppbv
RT: 2.437 min Scan# 726
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23



Tgt Ion: 73 Resp: 122464
Ion Ratio Lower Upper
73 100
57 22.3 21.3 31.9





#29

Chloroform

Concen: 9.453 ppbv

RT: 2.842 min Scan# 81

Delta R.T. -0.006 min

Lab File: VL042383.D

Acq: 18 Apr 2025 10:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 83 Resp: 29674

Ion Ratio Lower Upper

83 100

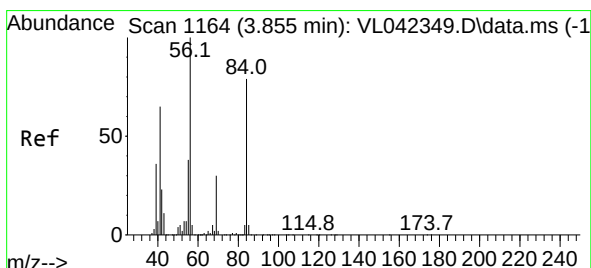
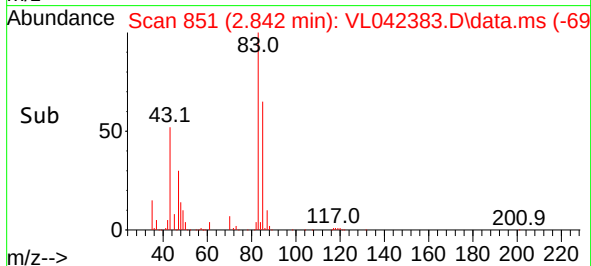
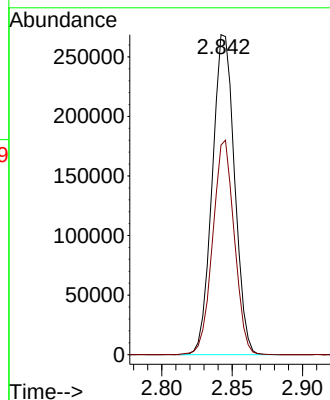
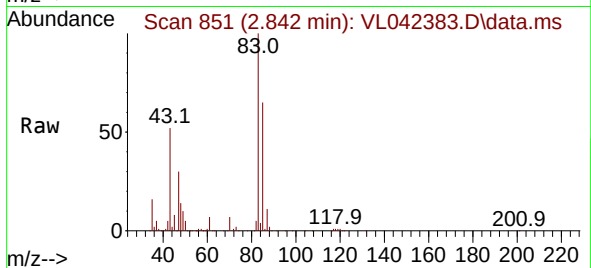
85 65.5 50.0 75.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2025

Supervised By :Mahesh Dadoda 04/21/2025



#30

Cyclohexane

Concen: 8.673 ppbv

RT: 3.849 min Scan# 1162

Delta R.T. -0.006 min

Lab File: VL042383.D

Acq: 18 Apr 2025 10:23

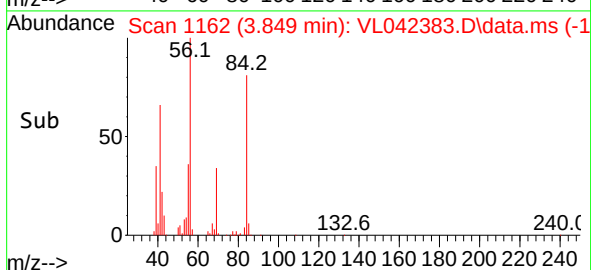
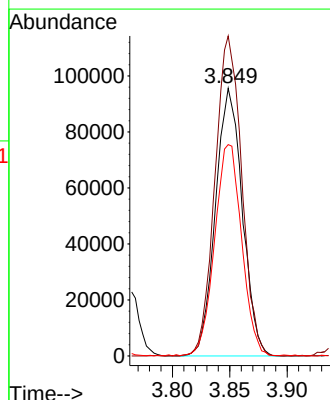
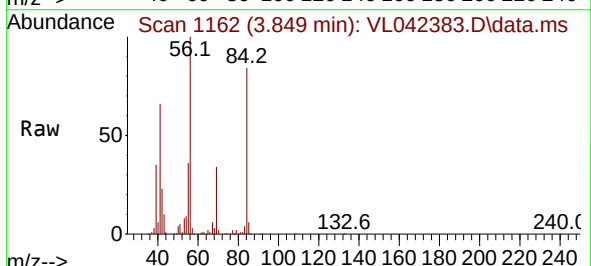
Tgt Ion: 84 Resp: 155716

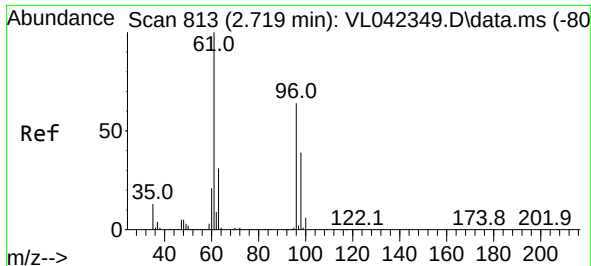
Ion Ratio Lower Upper

84 100

56 118.9 101.0 151.4

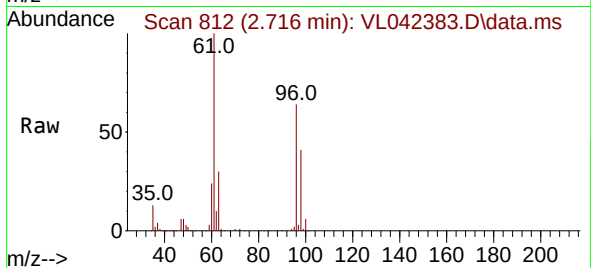
41 79.9 67.4 101.0





#31
 cis-1,2-Dichloroethene
 Concen: 9.000 ppbv
 RT: 2.716 min Scan# 81
 Delta R.T. -0.003 min
 Lab File: VL042383.D
 Acq: 18 Apr 2025 10:23

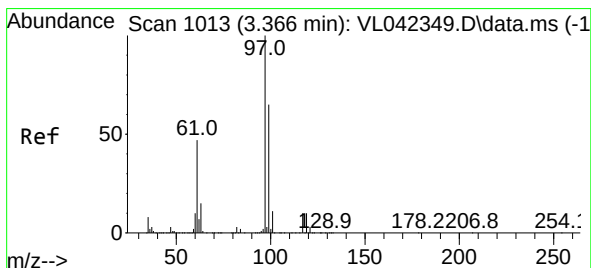
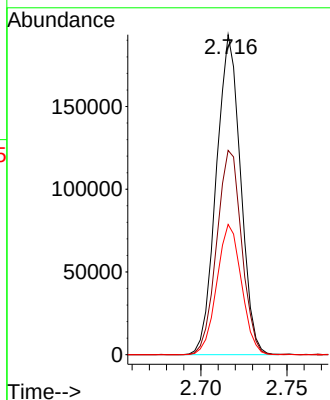
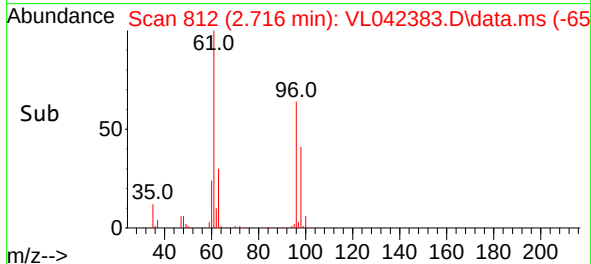
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



Tgt Ion: 61 Resp: 19003
 Ion Ratio Lower Upper
 61 100
 96 63.8 50.8 76.2
 98 40.7 30.9 46.3

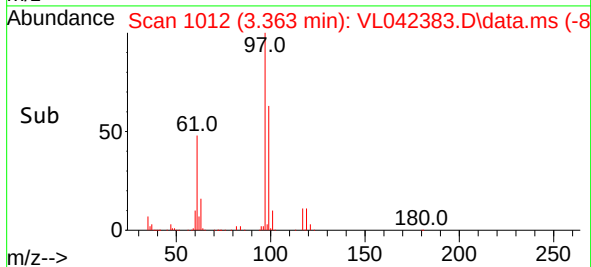
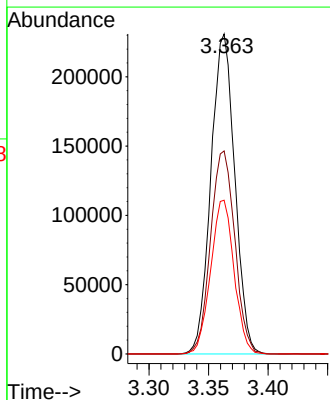
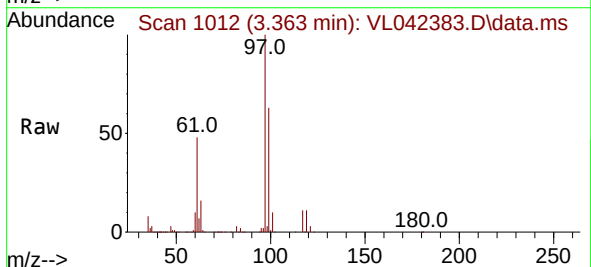
Manual Integrations
 APPROVED

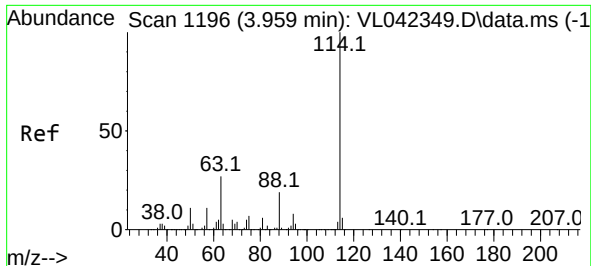
Reviewed By :Semsettin Yesilyurt 04/21/2025
 Supervised By :Mahesh Dadoda 04/21/2025



#32
 1,1,1-Trichloroethane
 Concen: 9.097 ppbv
 RT: 3.363 min Scan# 1012
 Delta R.T. -0.003 min
 Lab File: VL042383.D
 Acq: 18 Apr 2025 10:23

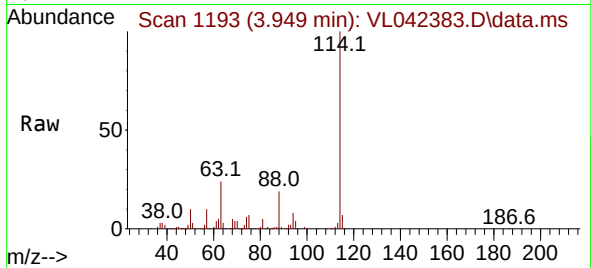
Tgt Ion: 97 Resp: 321462
 Ion Ratio Lower Upper
 97 100
 99 64.5 51.0 76.4
 61 47.1 38.8 58.2





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.949 min Scan# 1196
Delta R.T. -0.010 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

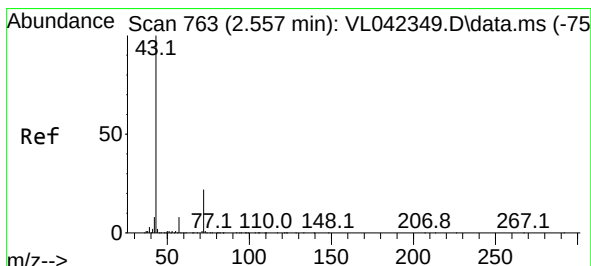
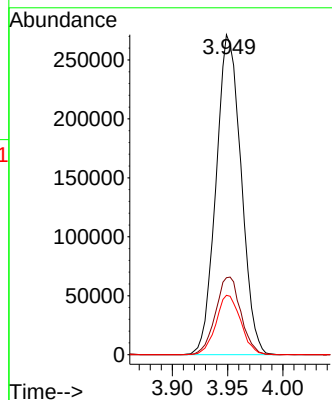
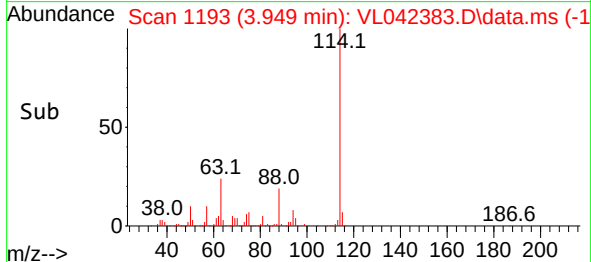
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion:114 Resp: 42754
Ion Ratio Lower Upper
114 100
63 24.4 21.8 32.6
88 18.3 15.5 23.3

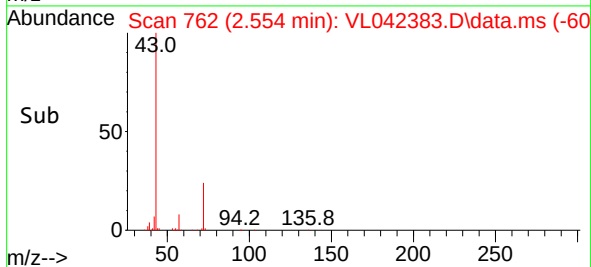
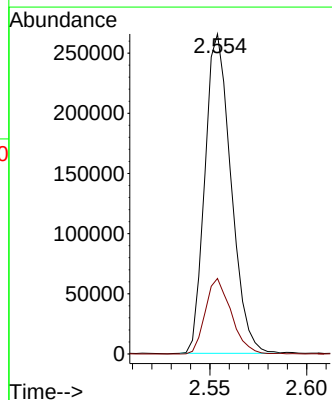
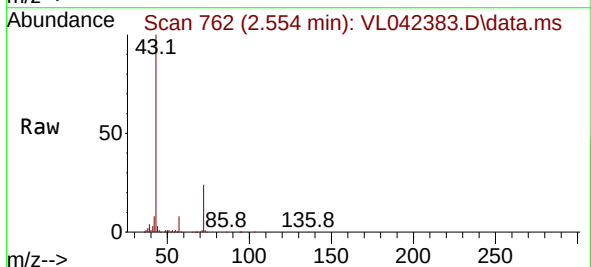
Manual Integrations
APPROVED

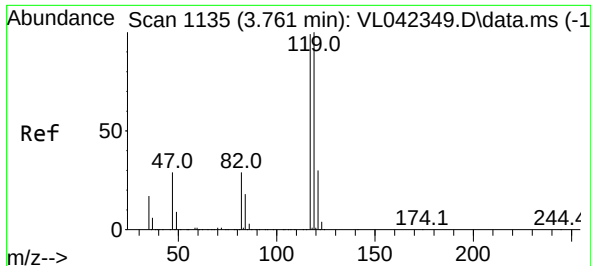
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025



#34
2-Butanone
Concen: 7.367 ppbv
RT: 2.554 min Scan# 762
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

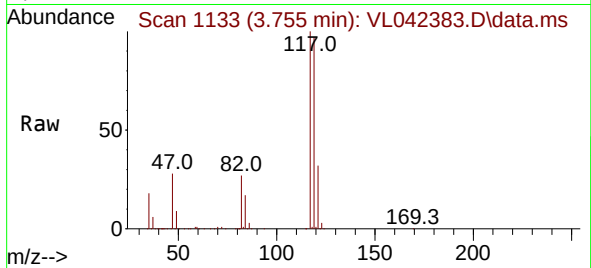
Tgt Ion: 43 Resp: 249113
Ion Ratio Lower Upper
43 100
72 23.5 18.2 27.2





#35
Carbon Tetrachloride
Concen: 8.695 ppbv
RT: 3.755 min Scan# 1135
Delta R.T. -0.006 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

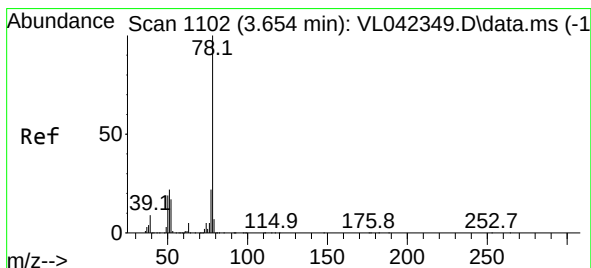
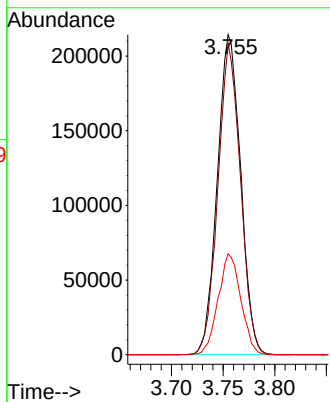
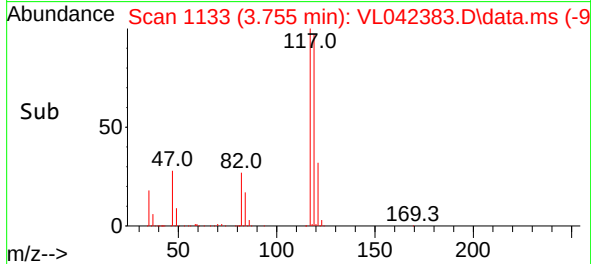
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion: 117 Resp: 336452
Ion Ratio Lower Upper
117 100
119 97.3 80.5 120.7
121 31.5 24.2 36.2

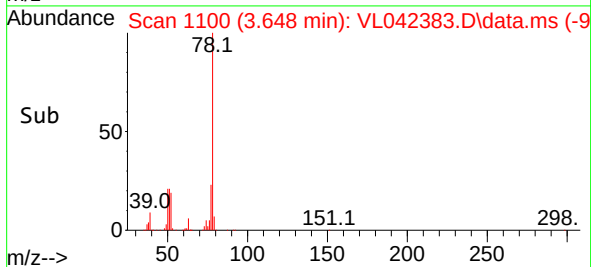
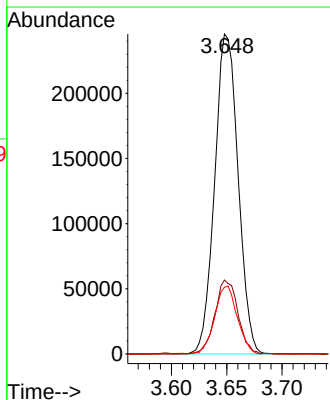
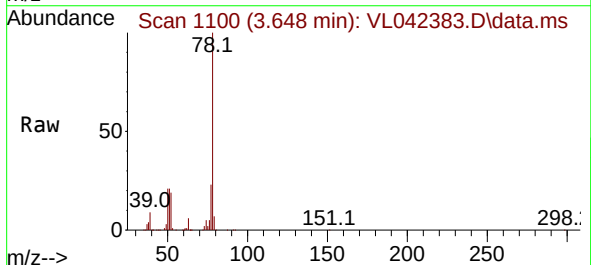
Manual Integrations
APPROVED

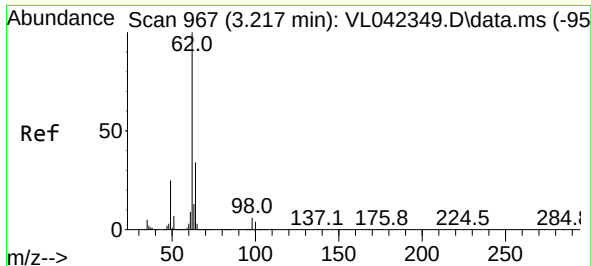
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025



#36
Benzene
Concen: 7.842 ppbv
RT: 3.648 min Scan# 1100
Delta R.T. -0.006 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 78 Resp: 361650
Ion Ratio Lower Upper
78 100
77 23.0 17.4 26.0
50 20.9 15.5 23.3





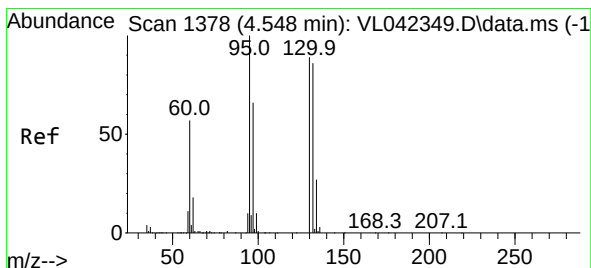
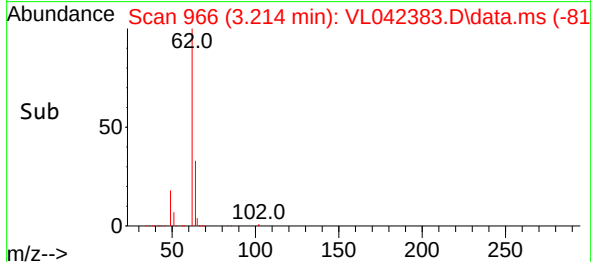
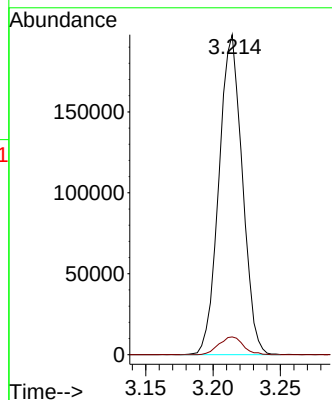
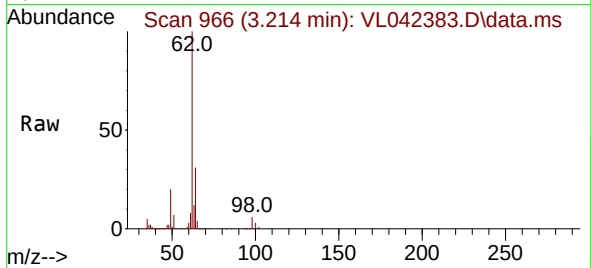
#37
1,2-Dichloroethane
Concen: 8.638 ppbv
RT: 3.214 min Scan# 90
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 62 Resp: 239079
Ion Ratio Lower Upper
62 100
98 5.8 5.1 7.7

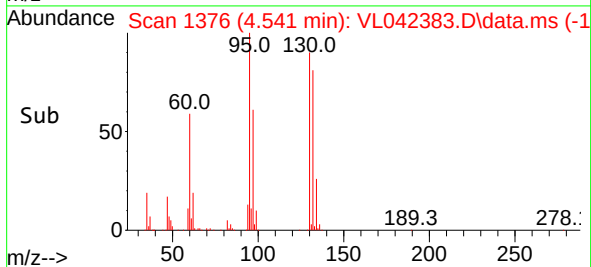
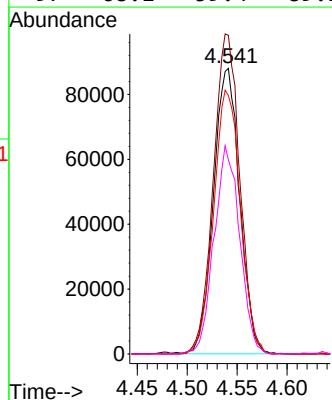
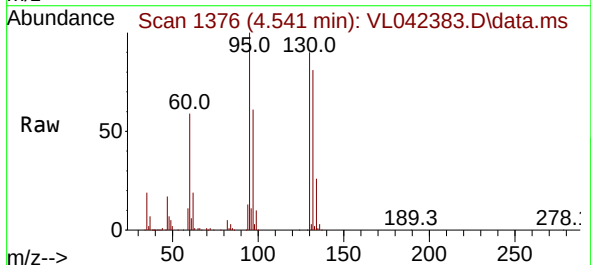
Manual Integrations
APPROVED

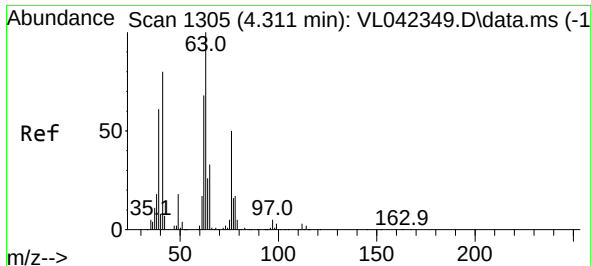
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025



#38
Trichloroethene
Concen: 7.964 ppbv
RT: 4.541 min Scan# 1376
Delta R.T. -0.006 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion:130 Resp: 160521
Ion Ratio Lower Upper
130 100
95 111.6 89.8 134.6
132 90.5 77.7 116.5
97 68.1 59.4 89.2





#39

1,2-Dichloropropane

Concen: 7.458 ppbv

RT: 4.305 min Scan# 1305

Delta R.T. -0.006 min

Lab File: VL042383.D

Acq: 18 Apr 2025 10:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 63 Resp: 12816

Ion Ratio Lower Upper

63 100

41 87.2 64.2 96.2

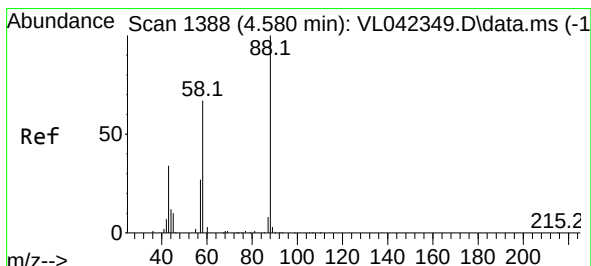
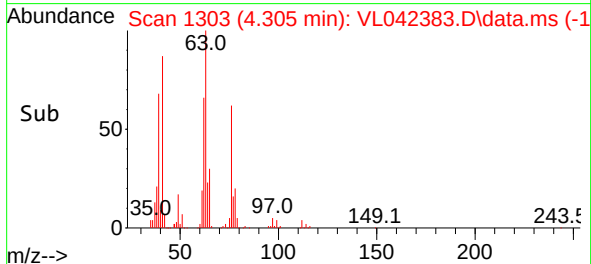
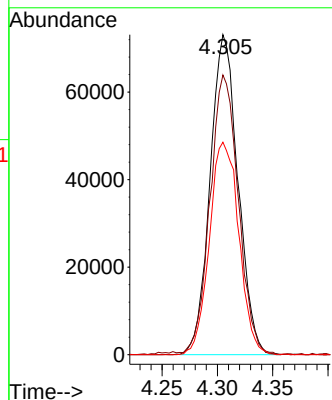
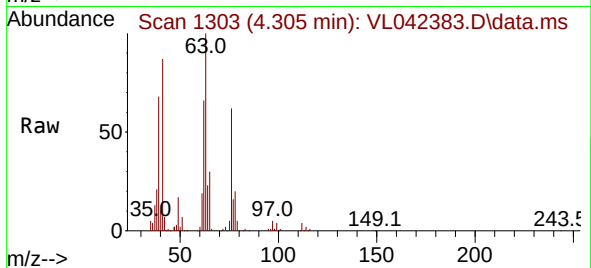
62 66.4 54.3 81.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2025

Supervised By :Mahesh Dadoda 04/21/2025



#40

1,4-Dioxane

Concen: 6.962 ppbv

RT: 4.574 min Scan# 1386

Delta R.T. -0.006 min

Lab File: VL042383.D

Acq: 18 Apr 2025 10:23

Tgt Ion: 88 Resp: 65746

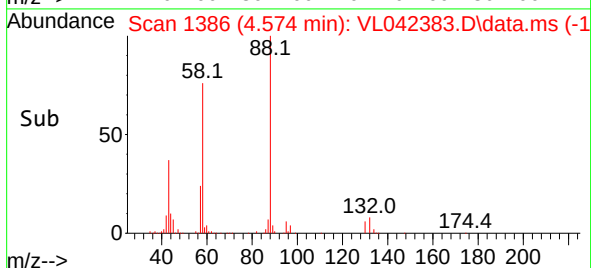
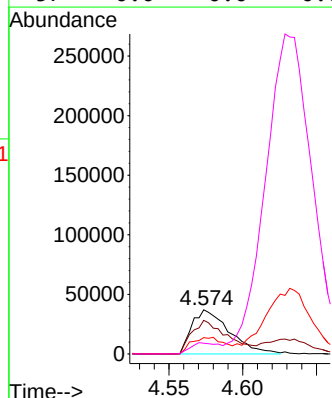
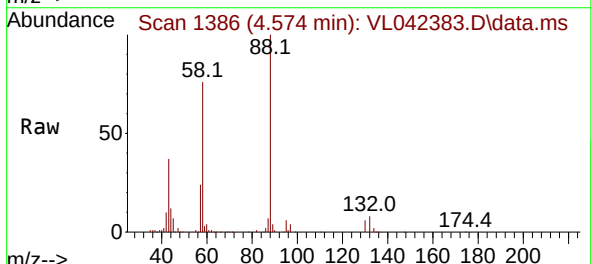
Ion Ratio Lower Upper

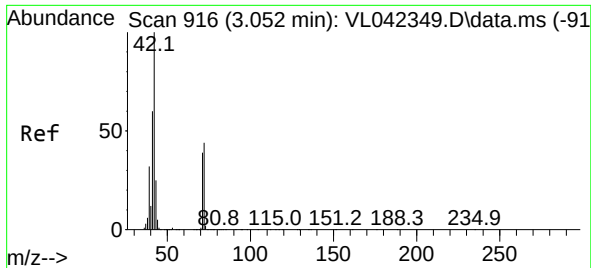
88 100

58 69.9 61.4 92.0

43 32.8 23.2 34.8

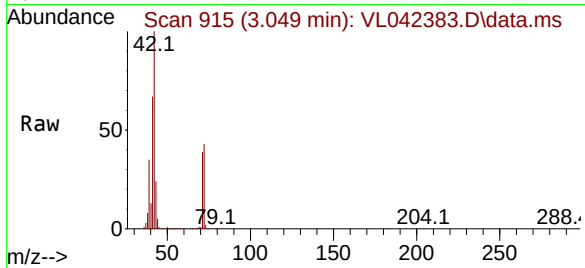
57 0.0 0.0 0.0





#41
Tetrahydrofuran
Concen: 6.984 ppbv
RT: 3.049 min Scan# 916
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

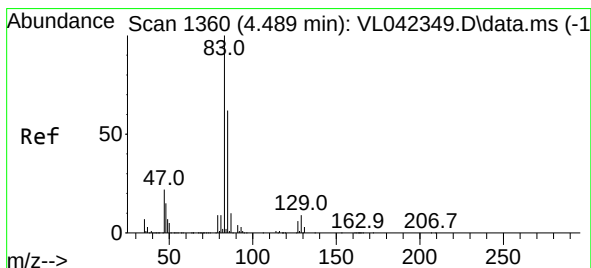
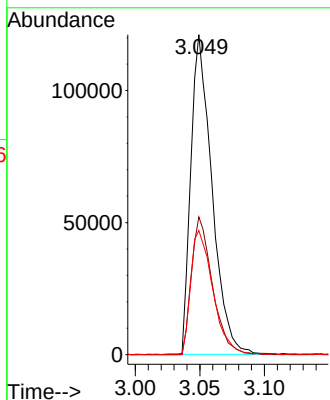
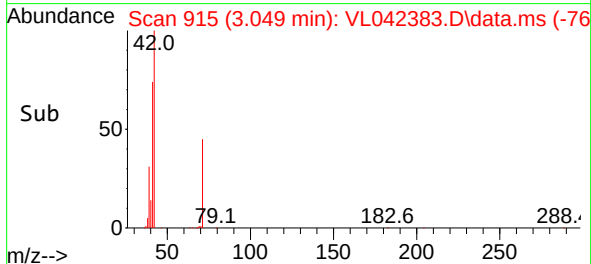
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



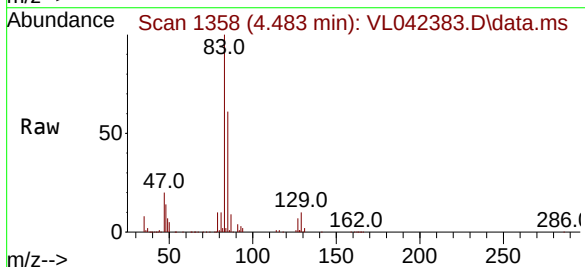
Tgt Ion: 42 Resp: 137694
Ion Ratio Lower Upper
42 100
72 42.8 32.3 48.5
71 40.9 31.4 47.2

Manual Integrations
APPROVED

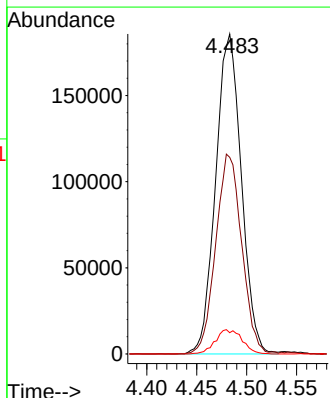
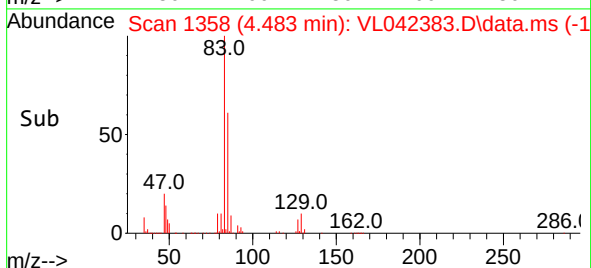
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

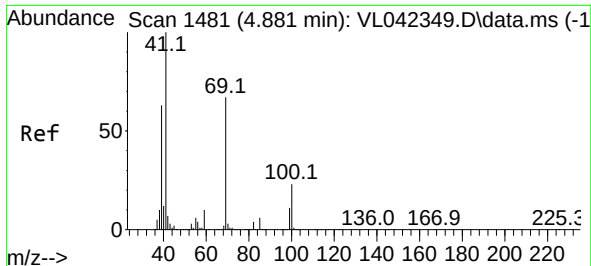


#42
Bromodichloromethane
Concen: 8.632 ppbv
RT: 4.483 min Scan# 1358
Delta R.T. -0.006 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23



Tgt Ion: 83 Resp: 332490
Ion Ratio Lower Upper
83 100
85 61.4 49.7 74.5
127 6.6 5.1 7.7





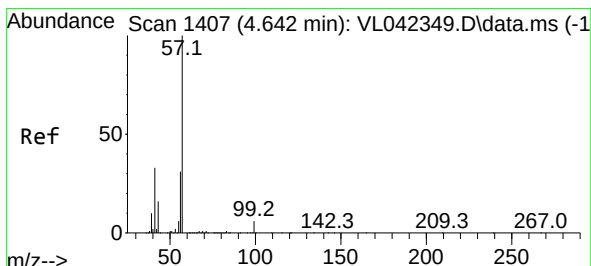
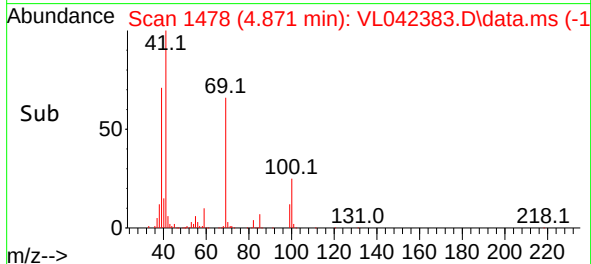
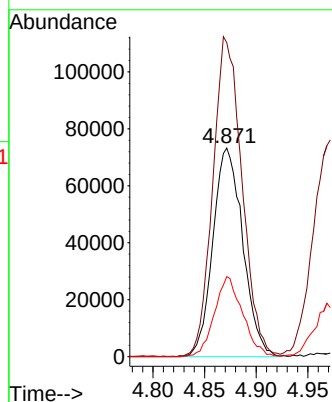
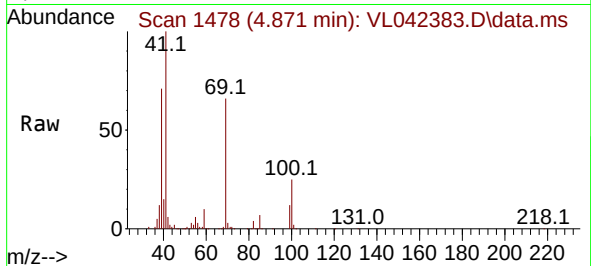
#43
Methyl Methacrylate
Concen: 7.098 ppbv
RT: 4.871 min Scan# 1478
Delta R.T. -0.010 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 69 Resp: 14751
Ion Ratio Lower Upper
69 100
41 149.5 118.6 177.8
100 36.1 28.2 42.2

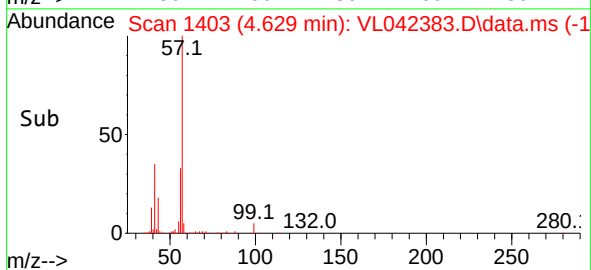
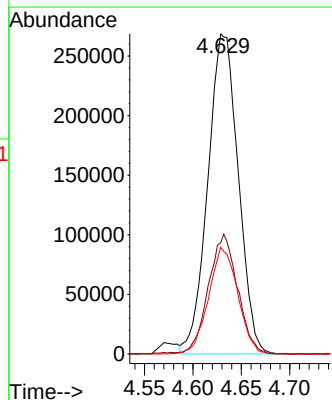
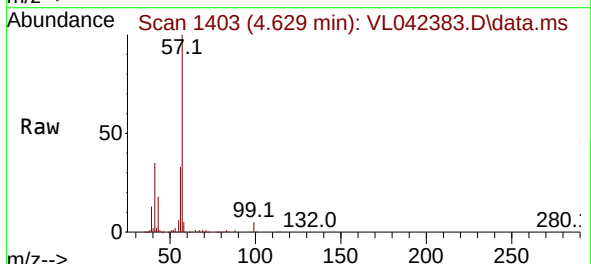
Manual Integrations
APPROVED

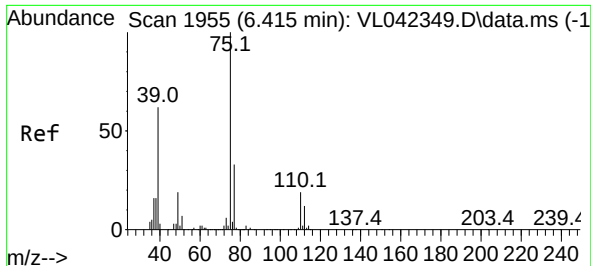
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025



#44
2,2,4-Trimethylpentane
Concen: 7.374 ppbv
RT: 4.629 min Scan# 1403
Delta R.T. -0.013 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 57 Resp: 587274
Ion Ratio Lower Upper
57 100
41 36.2 27.2 40.8
56 32.0 25.7 38.5





#45

t-1,3-Dichloropropene

Concen: 7.756 ppbv

RT: 6.402 min Scan# 1955

Delta R.T. -0.013 min

Lab File: VL042383.D

Acq: 18 Apr 2025 10:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 75 Resp: 164658

Ion Ratio Lower Upper

75 100

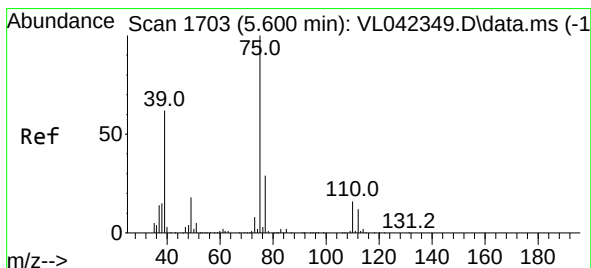
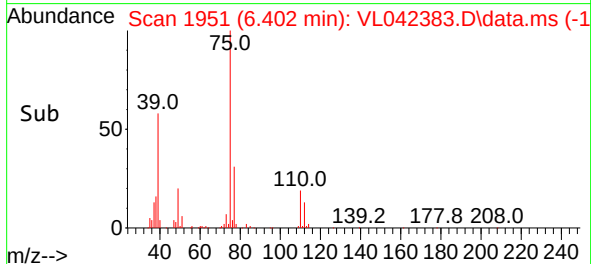
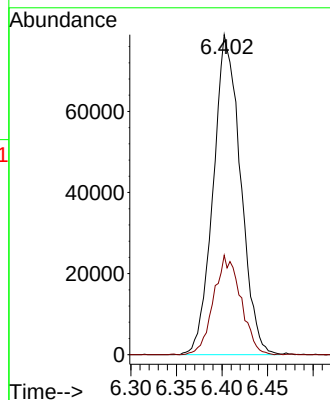
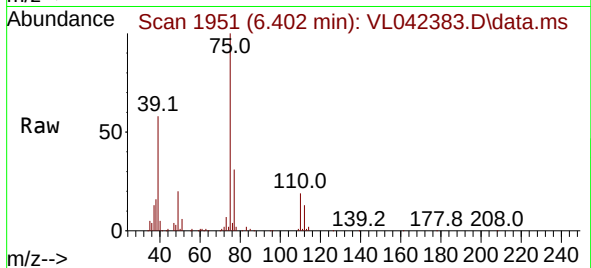
77 31.1 27.0 40.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2025

Supervised By :Mahesh Dadoda 04/21/2025



#46

cis-1,3-Dichloropropene

Concen: 7.729 ppbv

RT: 5.593 min Scan# 1701

Delta R.T. -0.006 min

Lab File: VL042383.D

Acq: 18 Apr 2025 10:23

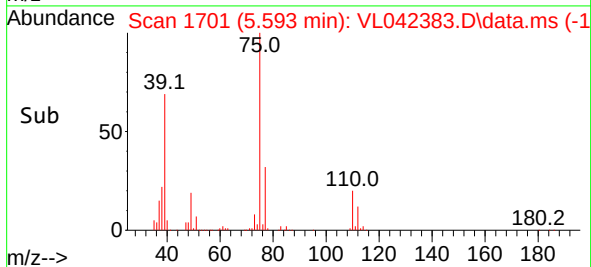
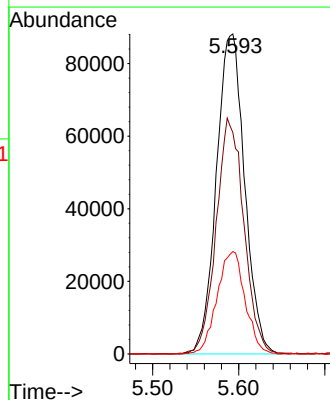
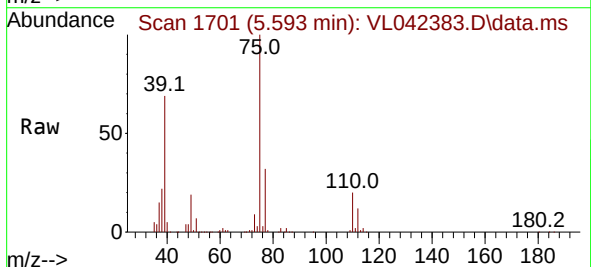
Tgt Ion: 75 Resp: 200823

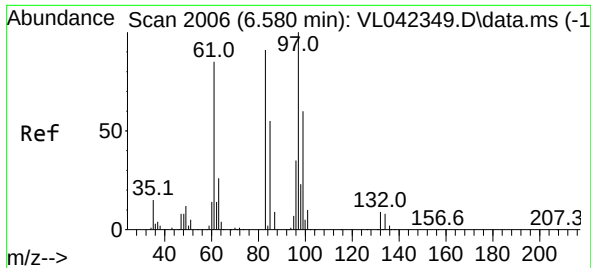
Ion Ratio Lower Upper

75 100

39 69.0 50.0 75.0

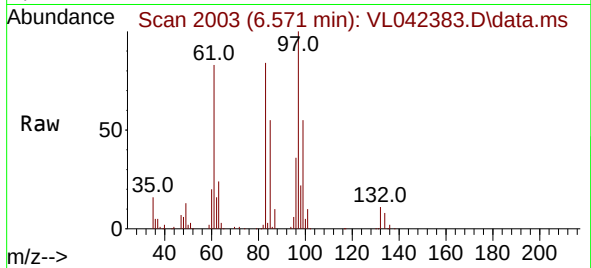
77 32.0 23.0 34.6





#47
1,1,2-Trichloroethane
Concen: 8.199 ppbv
RT: 6.571 min Scan# 2006
Delta R.T. -0.010 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

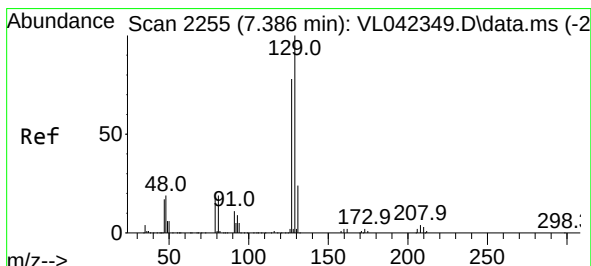
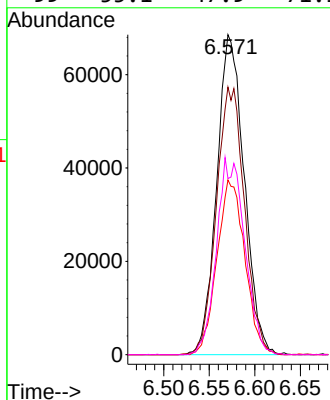
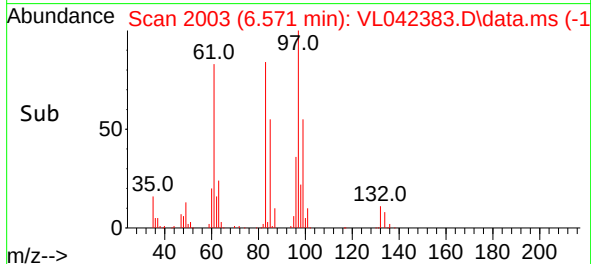
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



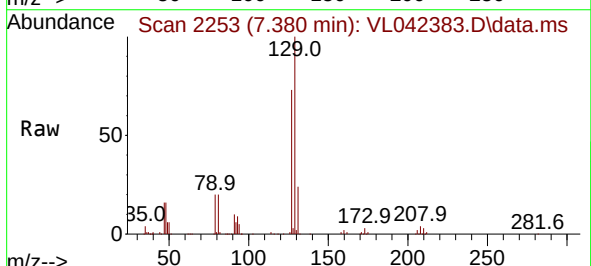
Tgt Ion: 97 Resp: 14354
Ion Ratio Lower Upper
97 100
83 83.6 72.8 109.2
85 54.6 44.2 66.4
99 55.1 47.9 71.9

Manual Integrations
APPROVED

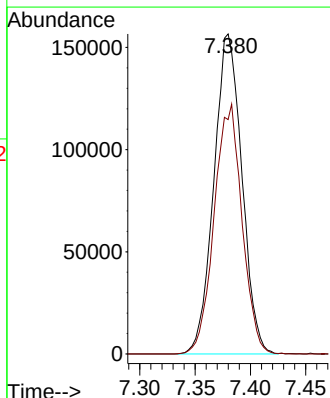
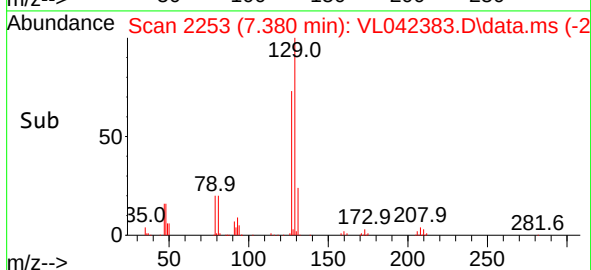
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

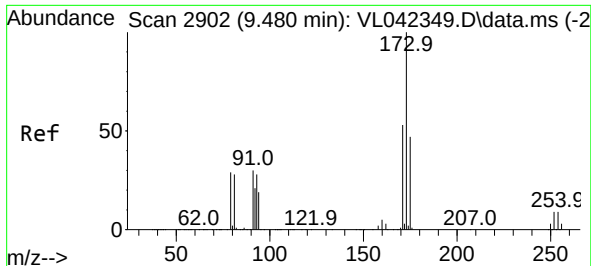


#48
Dibromochloromethane
Concen: 8.931 ppbv
RT: 7.380 min Scan# 2253
Delta R.T. -0.006 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23



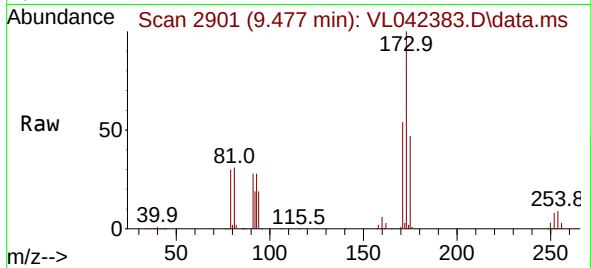
Tgt Ion:129 Resp: 276258
Ion Ratio Lower Upper
129 100
127 77.3 39.1 117.3





#49
Bromoform
Concen: 9.086 ppbv
RT: 9.477 min Scan# 24573
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

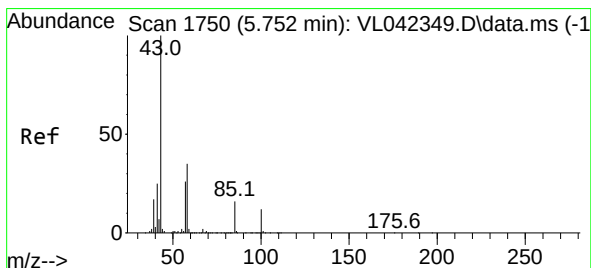
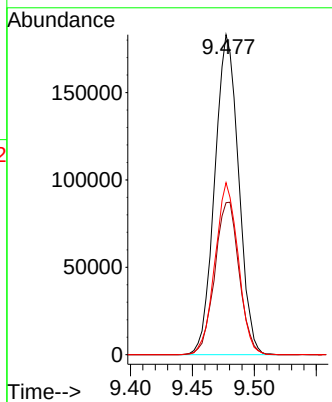
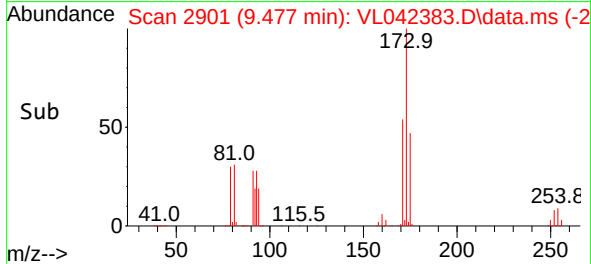
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion:173 Resp: 24573
Ion Ratio Lower Upper
173 100
175 48.8 38.2 57.2
171 52.2 40.9 61.3

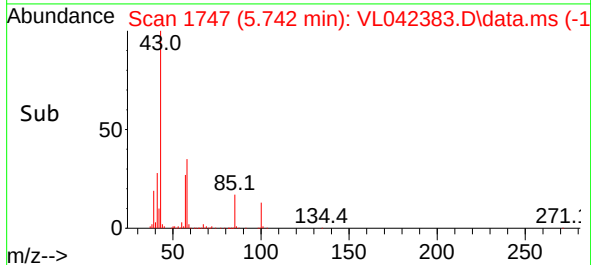
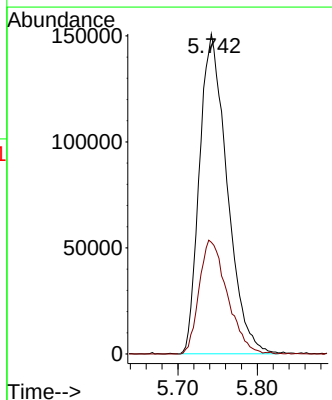
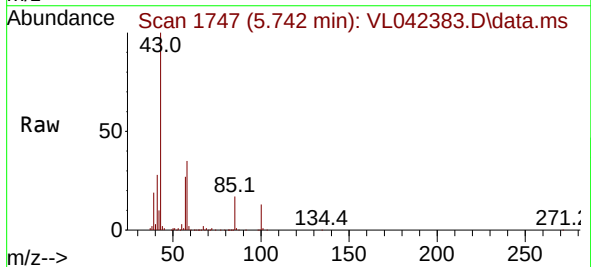
Manual Integrations
APPROVED

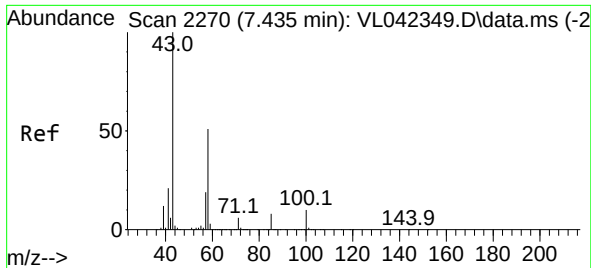
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025



#50
4-Methyl-2-Pentanone
Concen: 6.501 ppbv
RT: 5.742 min Scan# 1747
Delta R.T. -0.010 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

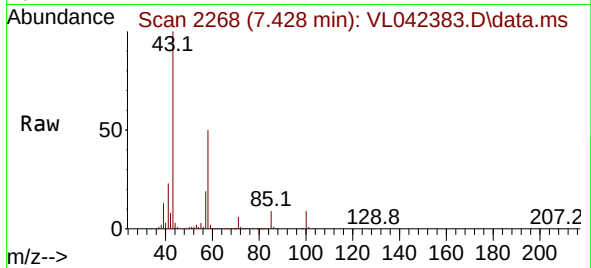
Tgt Ion: 43 Resp: 365292
Ion Ratio Lower Upper
43 100
58 36.3 28.6 43.0





#51
2-Hexanone
Concen: 5.874 ppbv
RT: 7.428 min Scan# 21
Delta R.T. -0.006 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

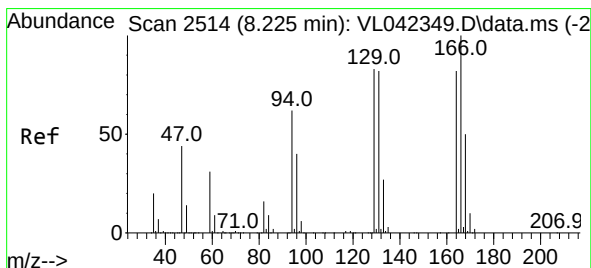
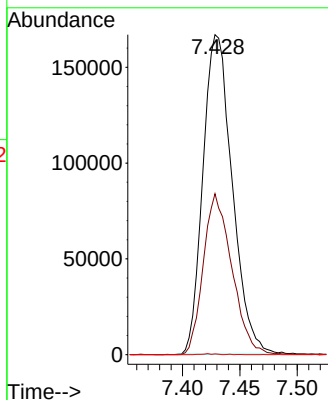
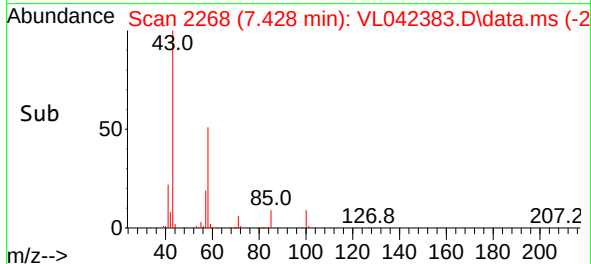
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



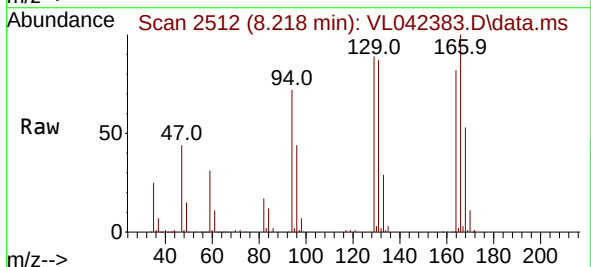
Tgt Ion: 43 Resp: 296019
Ion Ratio Lower Upper
43 100
58 49.2 40.2 60.4
98 0.2 0.1 0.1

Manual Integrations
APPROVED

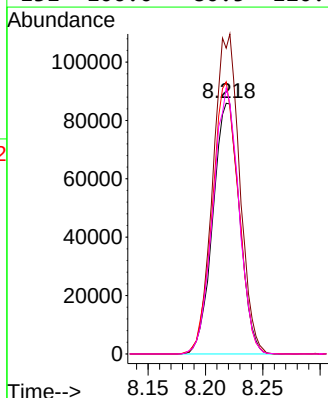
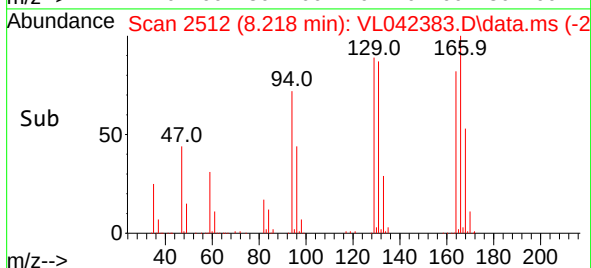
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

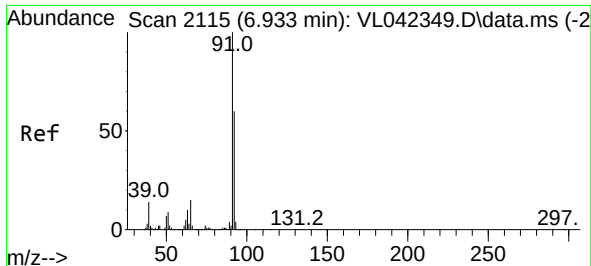


#52
Tetrachloroethene
Concen: 7.759 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. -0.006 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23



Tgt Ion:164 Resp: 138295
Ion Ratio Lower Upper
164 100
166 121.9 98.2 147.2
129 108.5 81.8 122.8
131 106.0 80.5 120.7





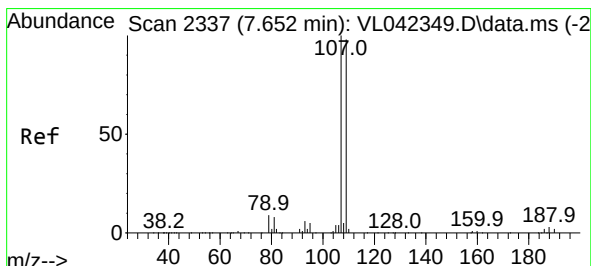
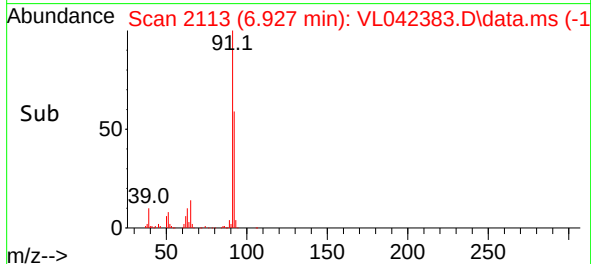
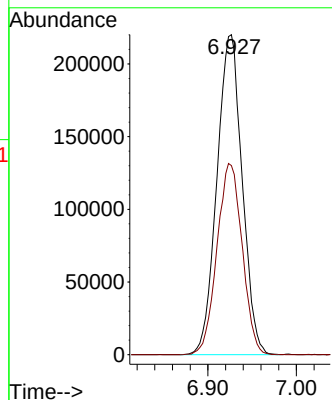
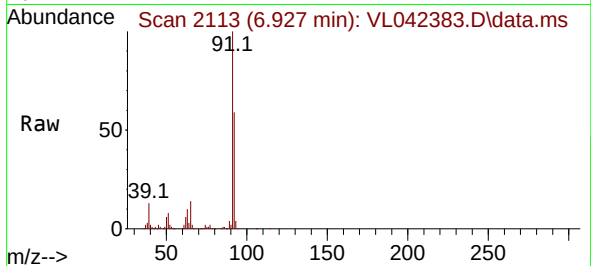
#53
Toluene
Concen: 7.886 ppbv
RT: 6.927 min Scan# 2113
Delta R.T. -0.006 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 91 Resp: 436388
Ion Ratio Lower Upper
91 100
92 59.7 48.2 72.4

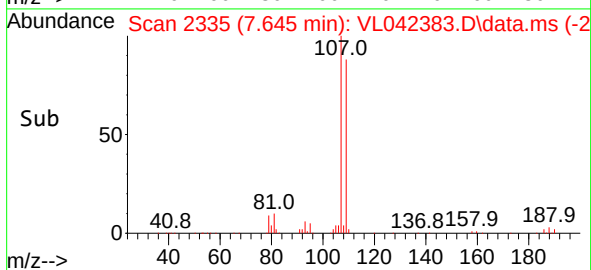
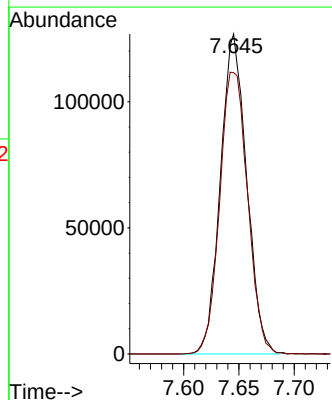
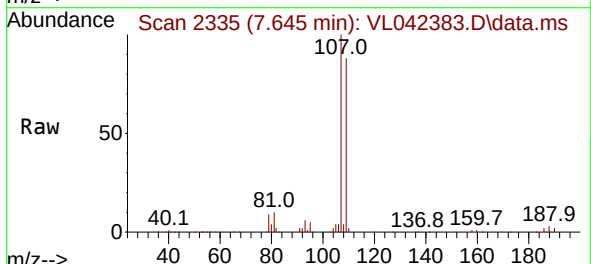
Manual Integrations
APPROVED

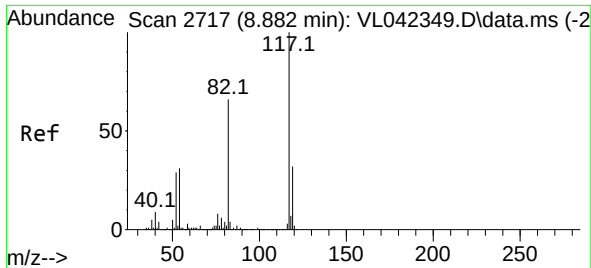
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025



#54
1,2-Dibromoethane
Concen: 8.347 ppbv
RT: 7.645 min Scan# 2335
Delta R.T. -0.006 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

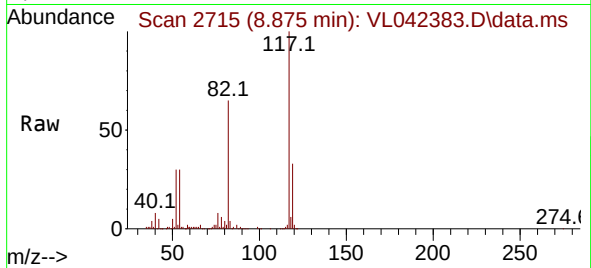
Tgt Ion:107 Resp: 209152
Ion Ratio Lower Upper
107 100
109 87.9 78.2 117.4





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. -0.006 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

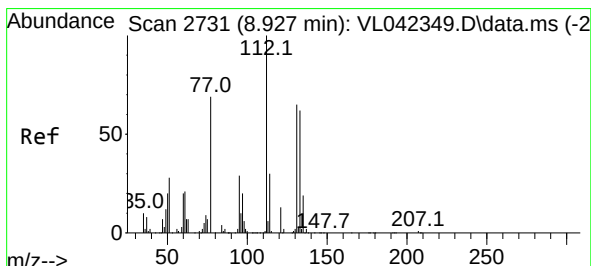
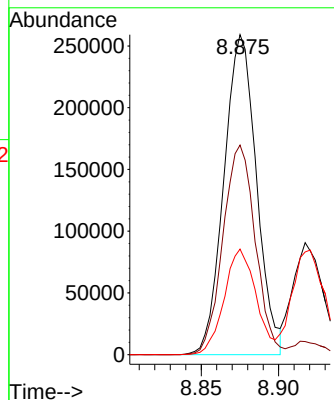
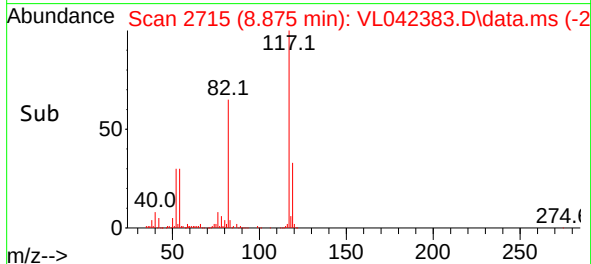
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



Tgt Ion:117 Resp: 379215
Ion Ratio Lower Upper
117 100
82 69.1 57.8 86.6
119 31.8 25.2 37.8

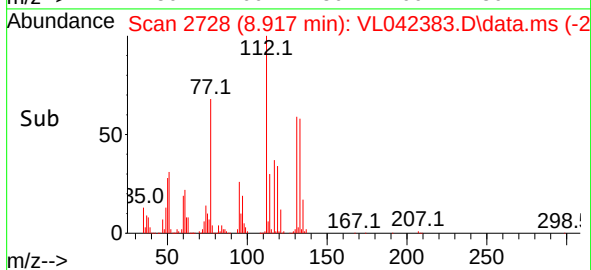
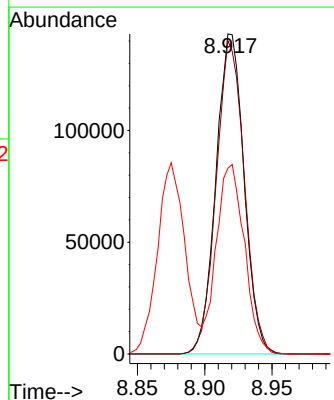
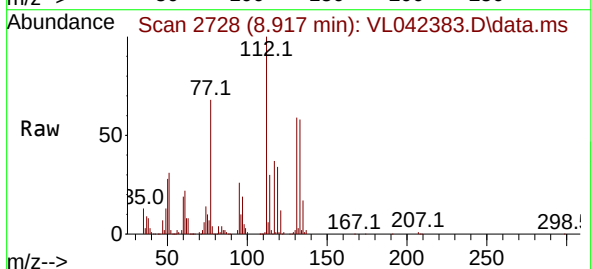
Manual Integrations
APPROVED

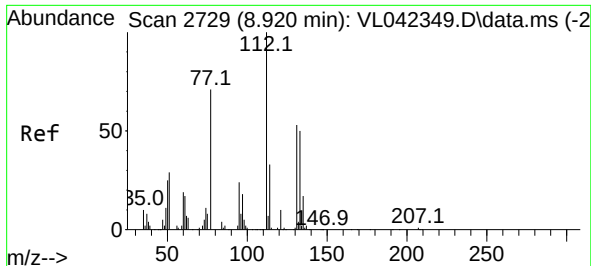
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025



#56
1,1,1,2-Tetrachloroethane
Concen: 9.038 ppbv
RT: 8.917 min Scan# 2728
Delta R.T. -0.010 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion:131 Resp: 207437
Ion Ratio Lower Upper
131 100
133 98.0 78.3 117.5
119 59.4 48.7 73.1





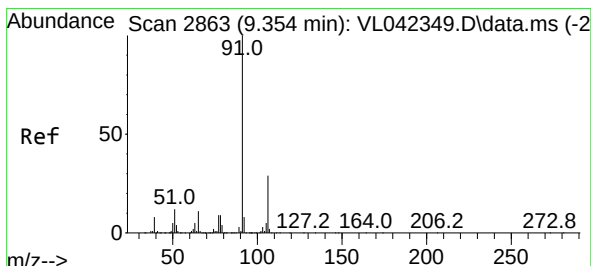
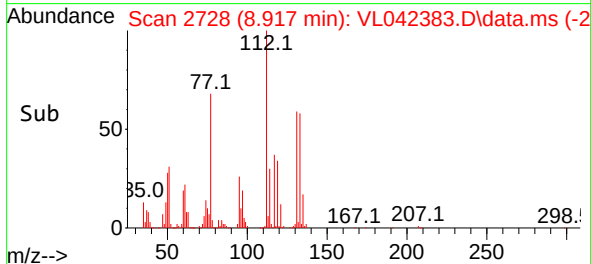
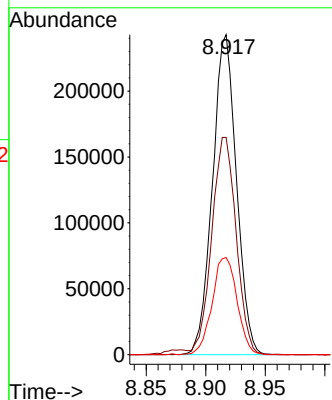
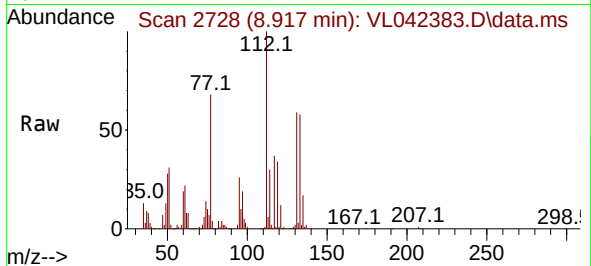
#57
Chlorobenzene
Concen: 8.619 ppbv
RT: 8.917 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:112 Resp: 339932
Ion Ratio Lower Upper
112 100
77 67.8 57.8 86.6
114 30.3 29.3 35.9

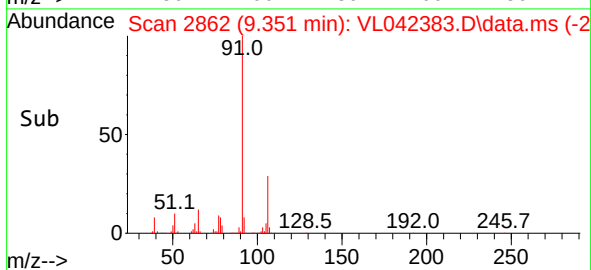
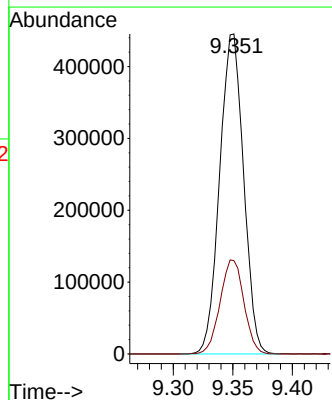
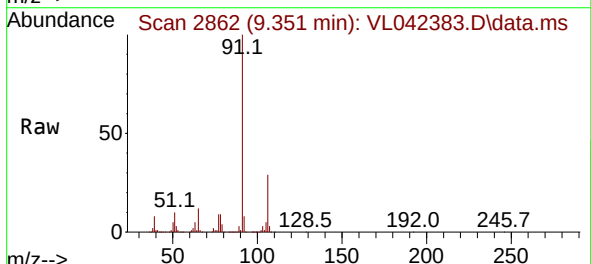
Manual Integrations
APPROVED

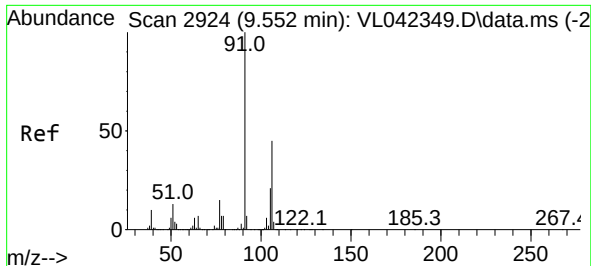
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025



#58
Ethyl Benzene
Concen: 8.258 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 91 Resp: 620425
Ion Ratio Lower Upper
91 100
106 29.2 23.0 34.4





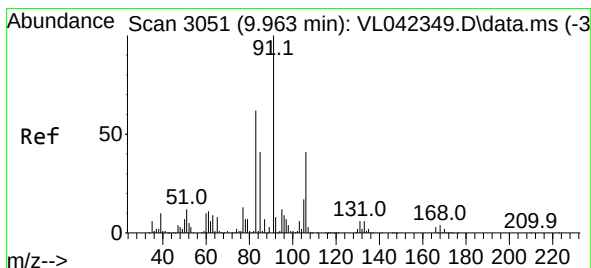
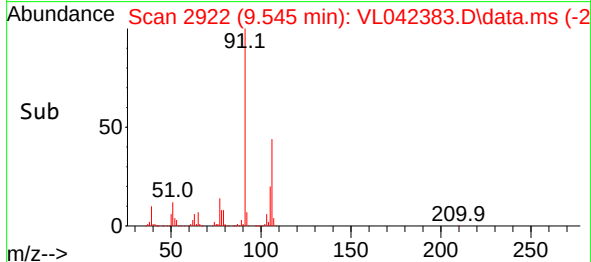
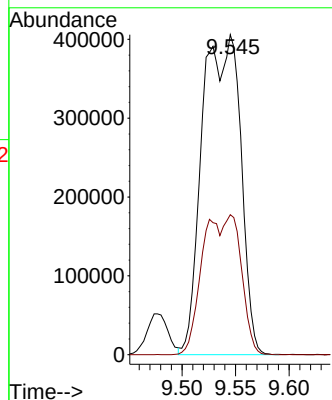
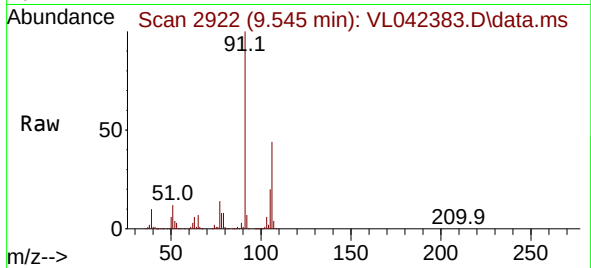
#59
m/p-Xylene
Concen: 16.726 ppbv m
RT: 9.545 min Scan# 2924
Delta R.T. -0.006 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 91 Resp: 101238
Ion Ratio Lower Upper
91 100
106 44.0 35.4 53.2

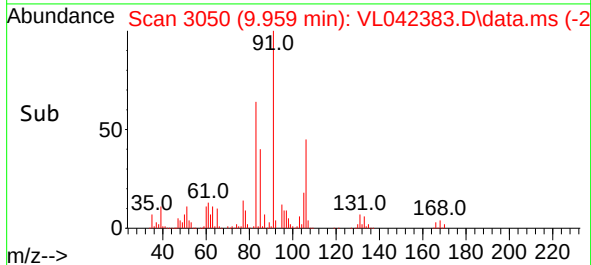
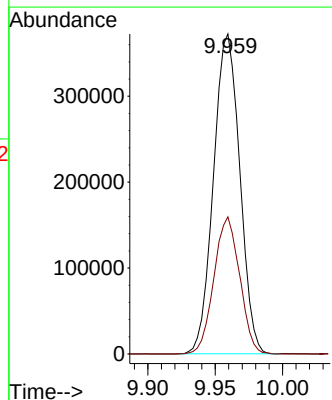
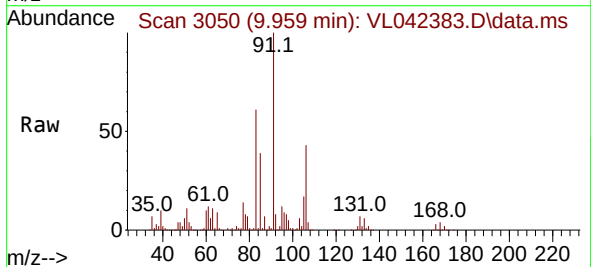
Manual Integrations
APPROVED

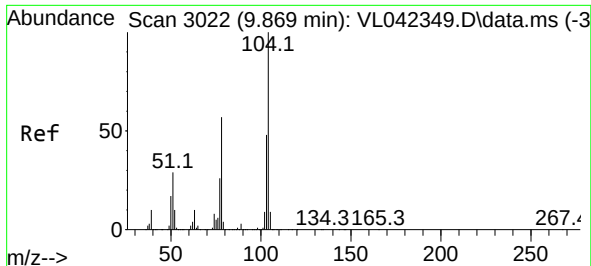
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025



#60
o-Xylene
Concen: 8.290 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 91 Resp: 505258
Ion Ratio Lower Upper
91 100
106 42.0 21.1 63.4





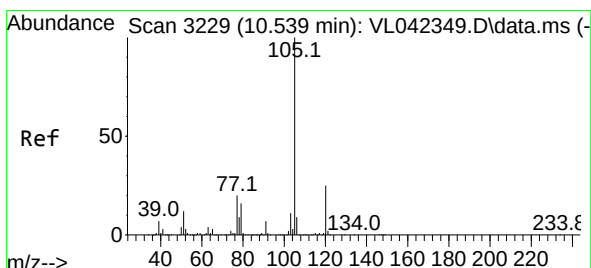
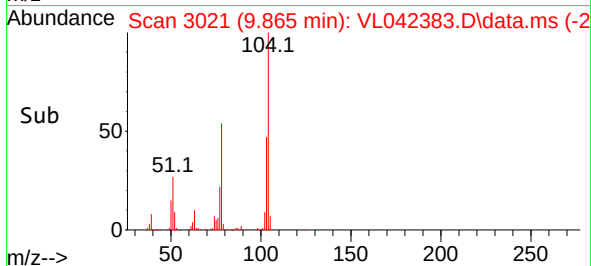
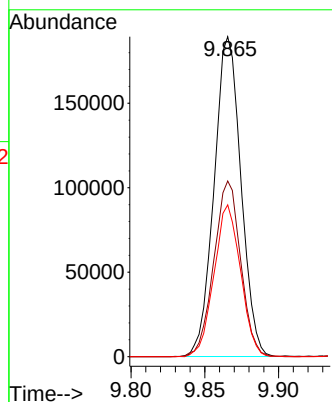
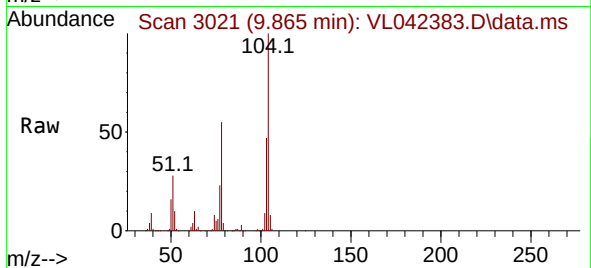
#61
Styrene
Concen: 8.253 ppbv
RT: 9.865 min Scan# 3022
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion:104 Resp: 240108
Ion Ratio Lower Upper
104 100
78 54.7 44.6 66.8
103 46.9 37.4 56.0

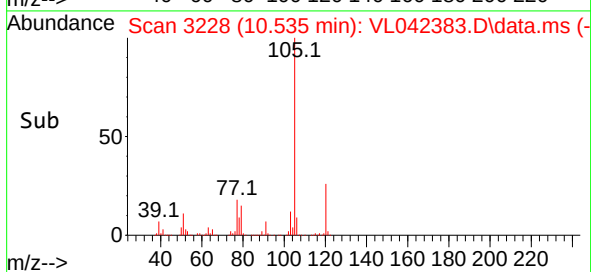
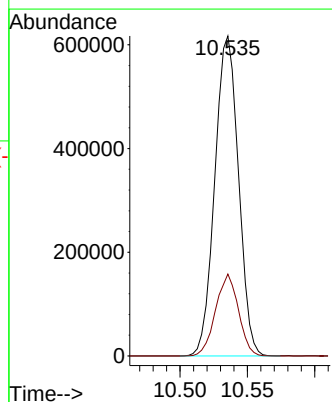
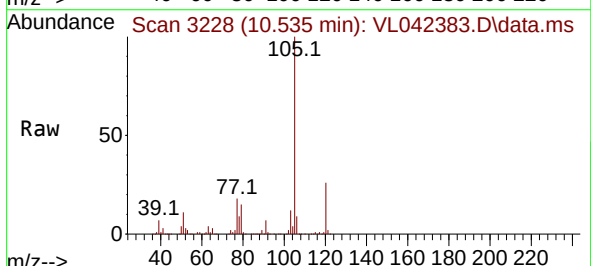
Manual Integrations
APPROVED

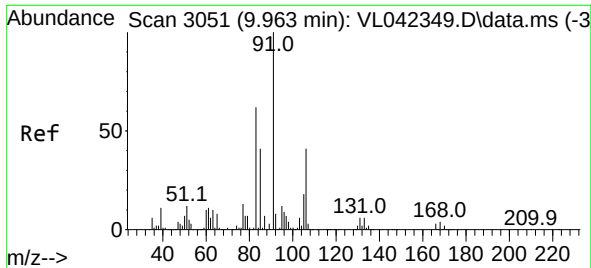
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025



#62
Isopropylbenzene
Concen: 8.422 ppbv
RT: 10.535 min Scan# 3228
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

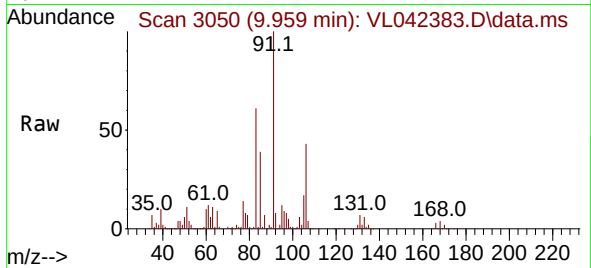
Tgt Ion:105 Resp: 753628
Ion Ratio Lower Upper
105 100
120 24.6 19.8 29.8





#63
1,1,2,2-Tetrachloroethane
Concen: 7.520 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

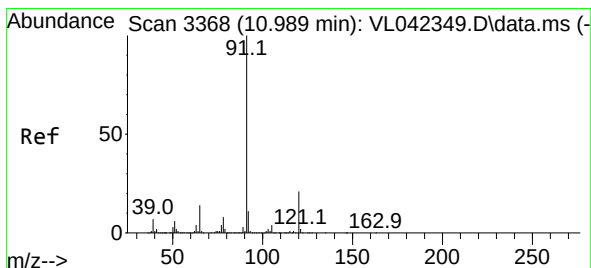
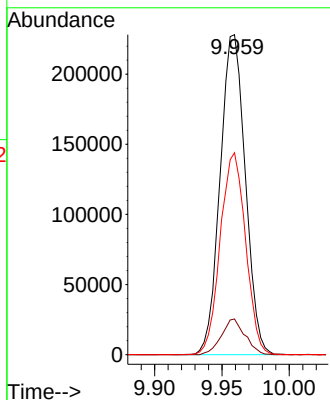
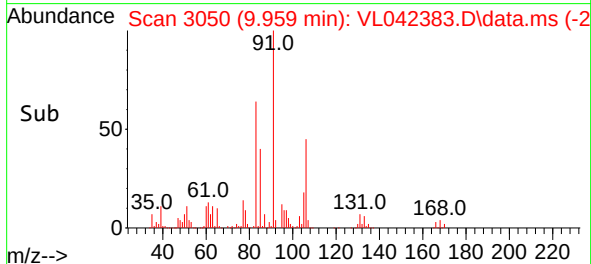
Instrument : MSVOA_L
ClientSampleId : VSTDCCC010



Tgt Ion: 83 Resp: 297020
Ion Ratio Lower Upper
83 100
131 10.5 4.5 13.7
85 63.5 32.4 97.0

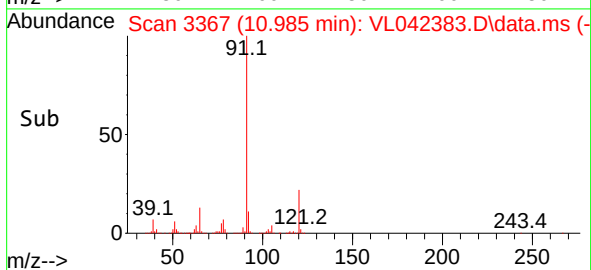
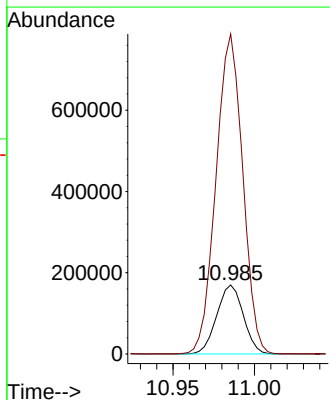
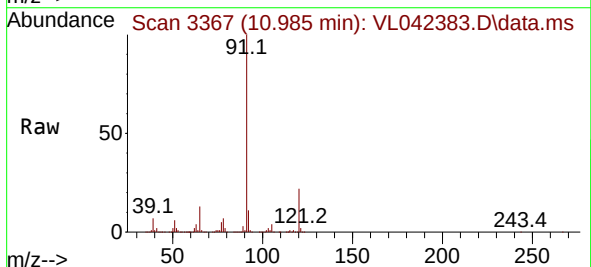
Manual Integrations
APPROVED

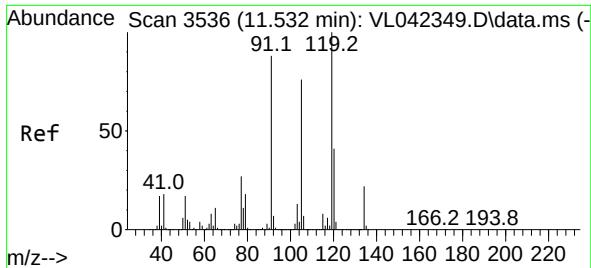
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025



#64
n-propylbenzene
Concen: 8.534 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion:120 Resp: 191951
Ion Ratio Lower Upper
120 100
91 467.4 392.4 588.6





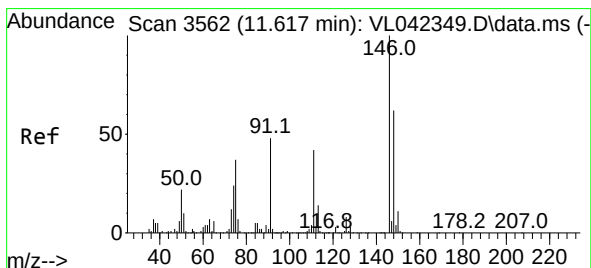
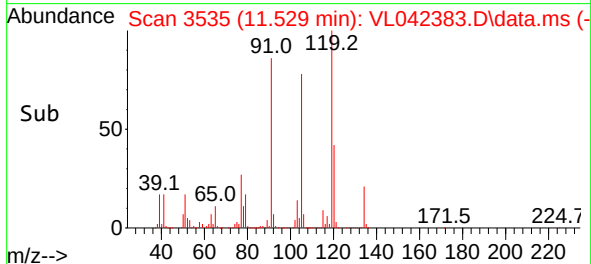
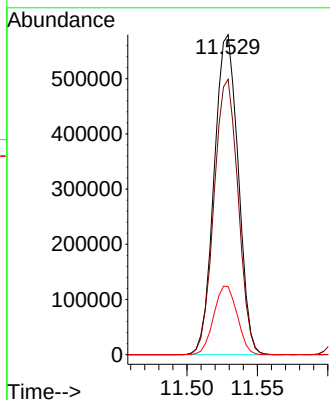
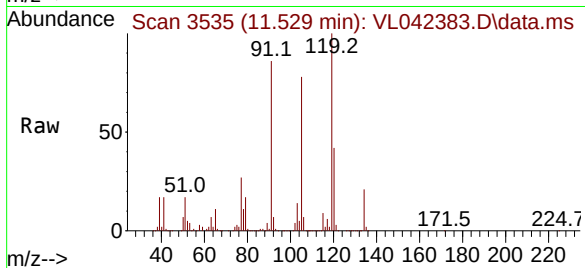
#65
tert-Butylbenzene
Concen: 8.367 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 119 Resp: 68813
Ion Ratio Lower Upper
119 100
91 86.4 74.6 111.8
134 21.0 18.8 28.2

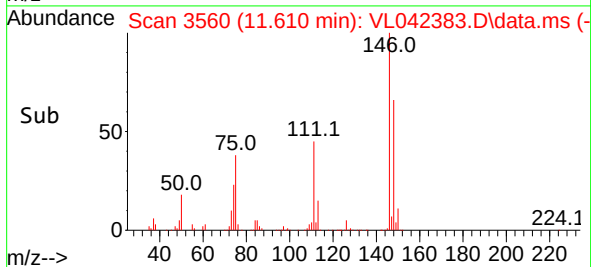
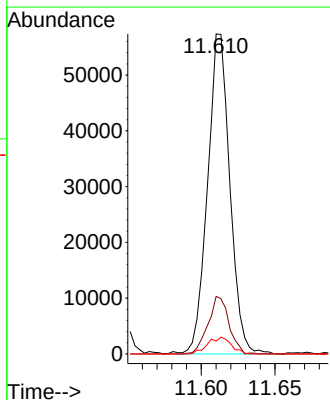
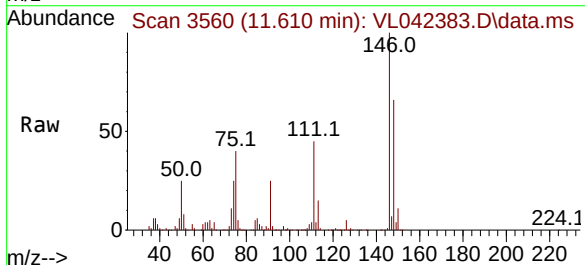
Manual Integrations
APPROVED

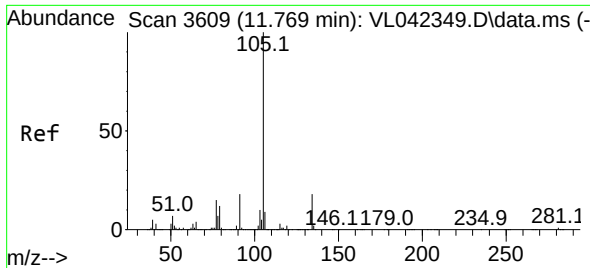
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025



#66
Benzyl Chloride
Concen: 6.664 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. -0.006 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

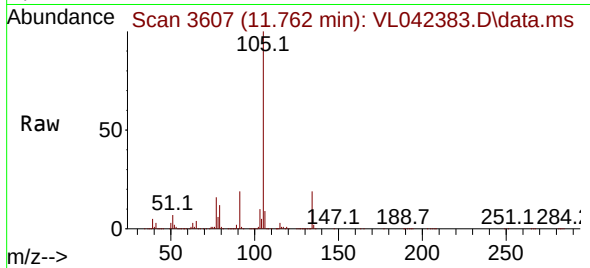
Tgt Ion: 91 Resp: 60227
Ion Ratio Lower Upper
91 100
126 16.9 11.8 17.6
128 5.5 4.5 6.7





#67
 sec-Butylbenzene
 Concen: 8.295 ppbv
 RT: 11.762 min Scan# 30
 Delta R.T. -0.006 min
 Lab File: VL042383.D
 Acq: 18 Apr 2025 10:23

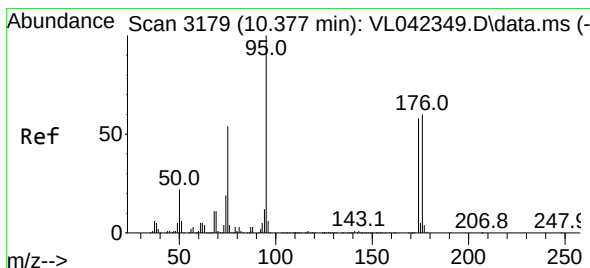
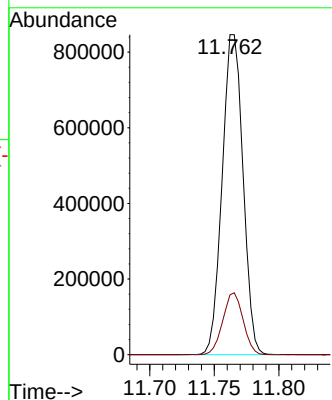
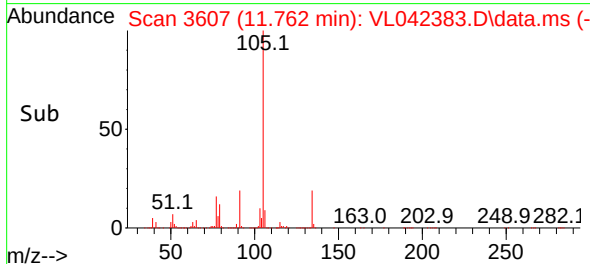
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



Tgt Ion:105 Resp: 948960
 Ion Ratio Lower Upper
 105 100
 134 18.9 14.6 21.8

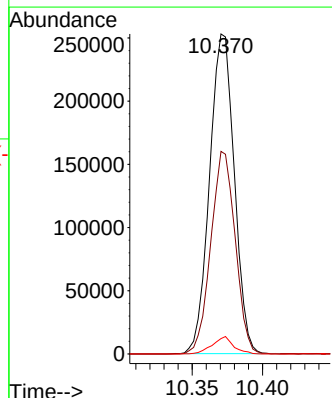
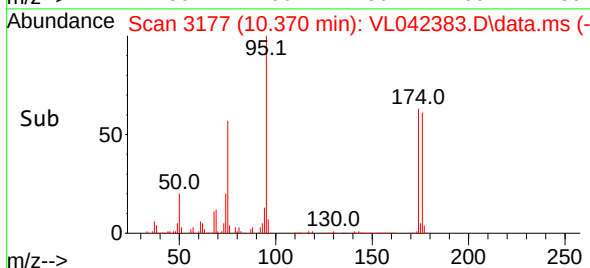
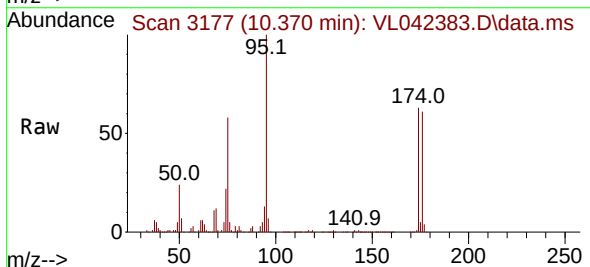
Manual Integrations
 APPROVED

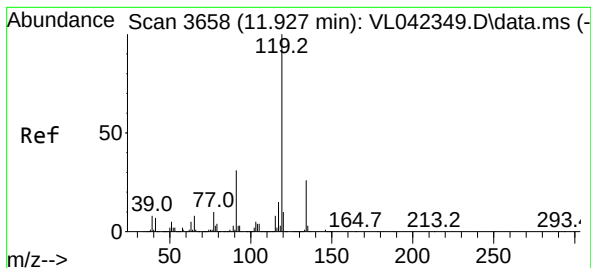
Reviewed By :Semsettin Yesilyurt 04/21/2025
 Supervised By :Mahesh Dadoda 04/21/2025



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.924 ppbv
 RT: 10.370 min Scan# 3177
 Delta R.T. -0.006 min
 Lab File: VL042383.D
 Acq: 18 Apr 2025 10:23

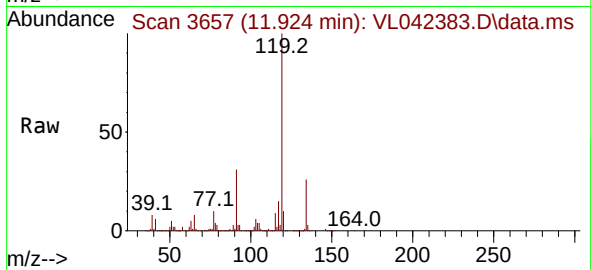
Tgt Ion: 95 Resp: 309235
 Ion Ratio Lower Upper
 95 100
 174 62.5 48.5 72.7
 175 4.6 3.7 5.5





#69
p-Isopropyltoluene
Concen: 8.315 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

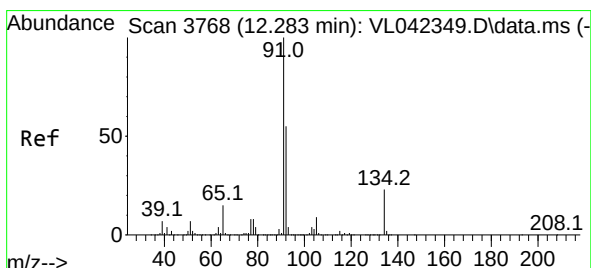
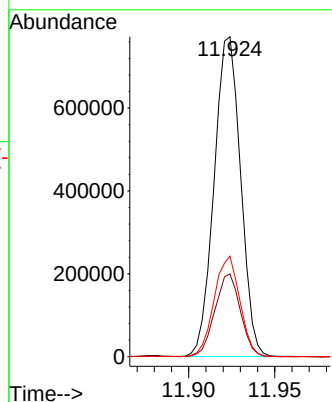
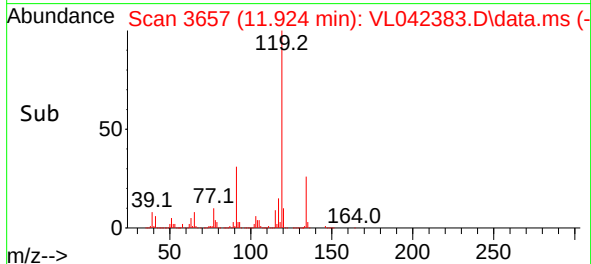
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010



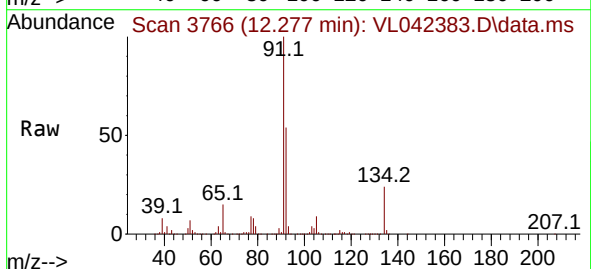
Tgt Ion:119 Resp: 82644
Ion Ratio Lower Upper
119 100
134 25.1 20.0 30.0
91 30.8 24.4 36.6

Manual Integrations
APPROVED

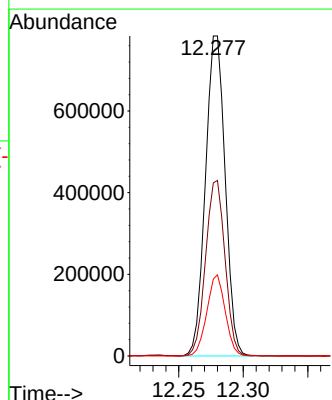
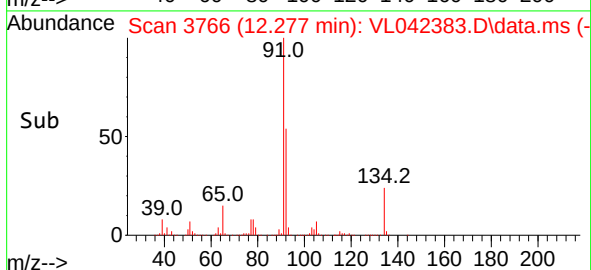
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

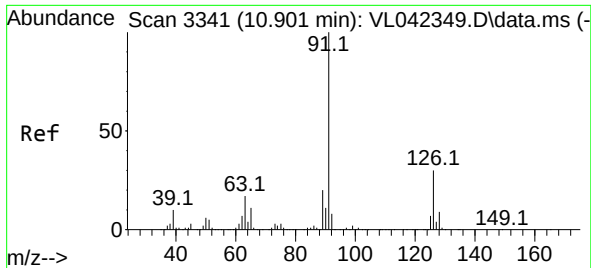


#70
n-Butylbenzene
Concen: 8.039 ppbv
RT: 12.277 min Scan# 3766
Delta R.T. -0.006 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23



Tgt Ion: 91 Resp: 832220
Ion Ratio Lower Upper
91 100
92 54.3 44.2 66.4
134 23.6 18.2 27.4





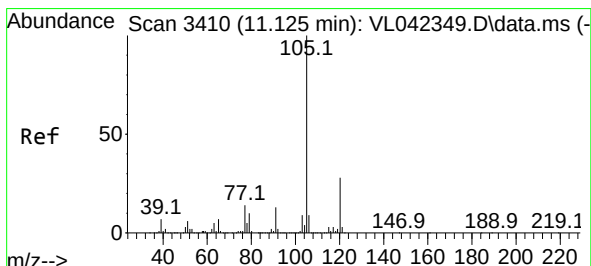
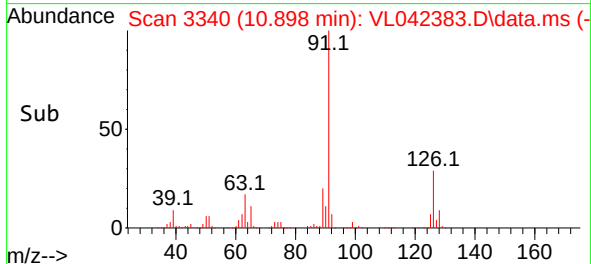
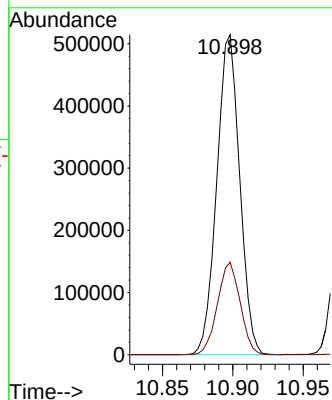
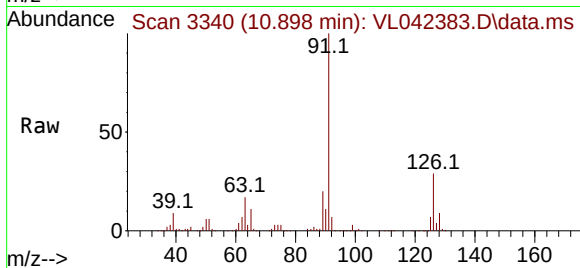
#71
2-Chlorotoluene
Concen: 8.306 ppbv
RT: 10.898 min Scan# 31
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 91 Resp: 58295
Ion Ratio Lower Upper
91 100
126 28.6 11.4 45.4

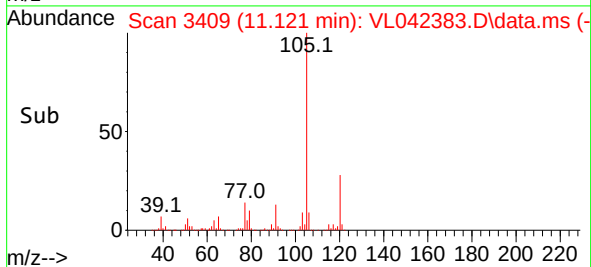
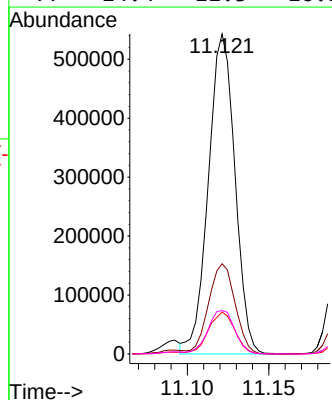
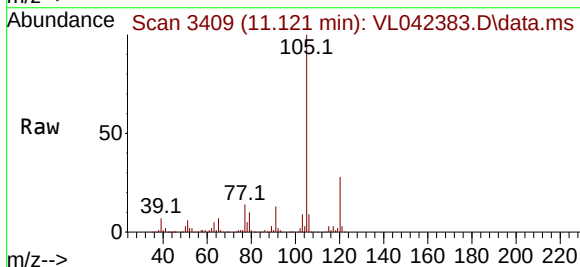
Manual Integrations
APPROVED

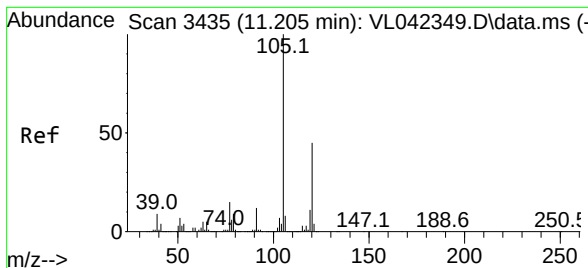
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025



#72
4-Ethyltoluene
Concen: 8.256 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion:105 Resp: 615202
Ion Ratio Lower Upper
105 100
120 29.3 23.2 34.8
91 13.6 10.4 15.6
77 14.4 11.3 16.9





#73

1,3,5-Trimethylbenzene

Concen: 8.220 ppbv

RT: 11.199 min Scan# 34

Delta R.T. -0.006 min

Lab File: VL042383.D

Acq: 18 Apr 2025 10:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion:105 Resp: 54078

Ion Ratio Lower Upper

105 100

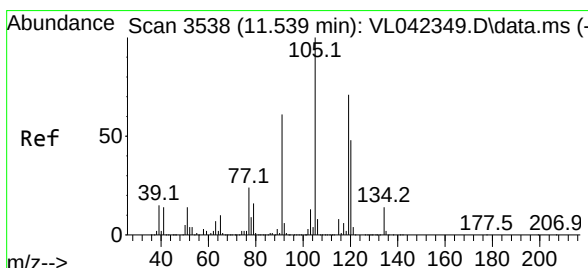
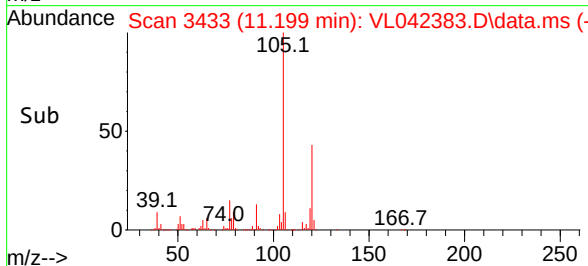
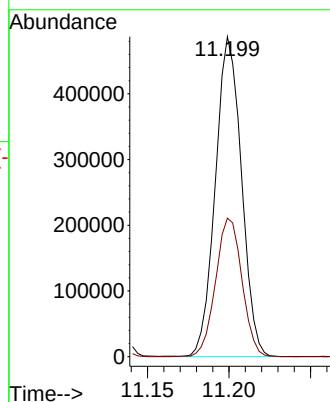
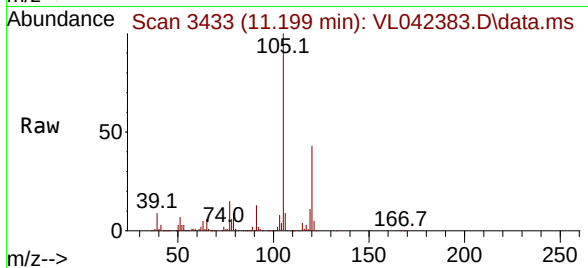
120 43.3 35.6 53.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2025

Supervised By :Mahesh Dadoda 04/21/2025



#74

1,2,4-Trimethylbenzene

Concen: 7.794 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. -0.003 min

Lab File: VL042383.D

Acq: 18 Apr 2025 10:23

Tgt Ion:105 Resp: 598825

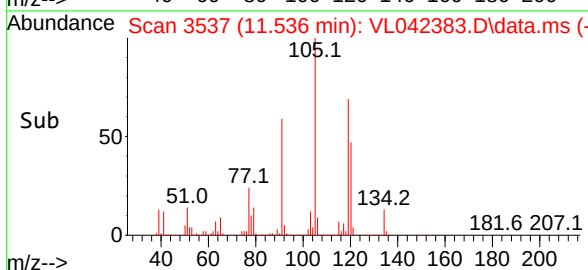
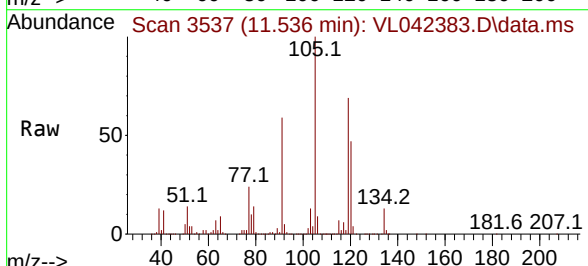
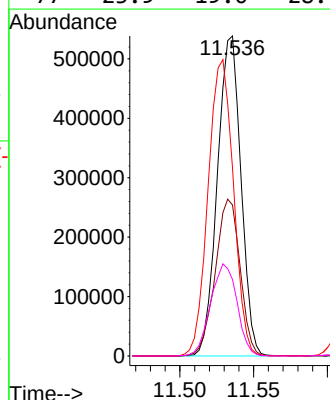
Ion Ratio Lower Upper

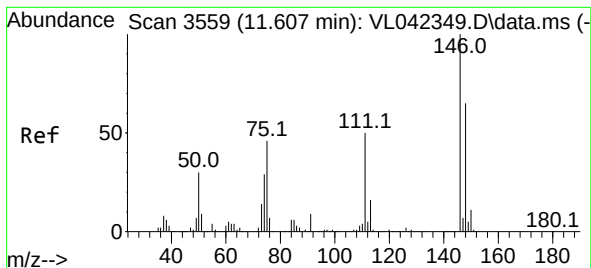
105 100

120 47.1 38.1 57.1

91 58.6 48.8 73.2

77 23.9 19.0 28.4





#75

1,3-Dichlorobenzene

Concen: 8.644 ppbv

RT: 11.604 min Scan# 3559

Delta R.T. -0.003 min

Lab File: VL042383.D

Acq: 18 Apr 2025 10:23

Instrument :

MSVOA_L

ClientSampleId :

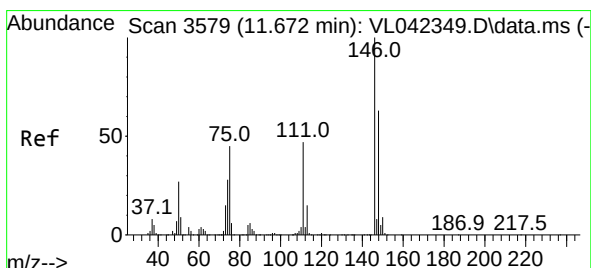
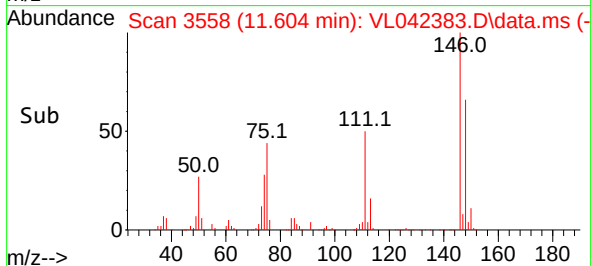
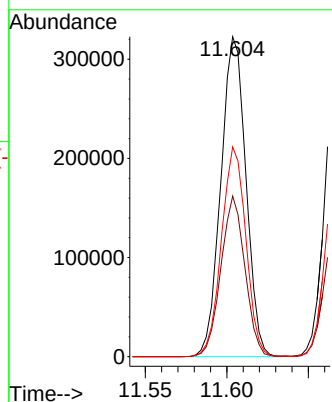
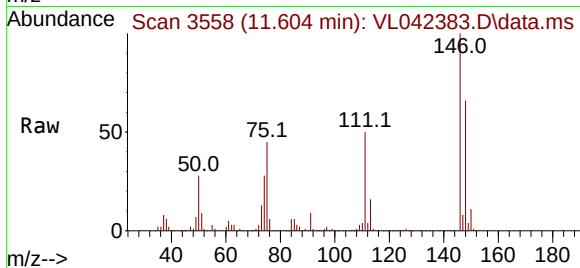
VSTDCCC010

Tgt Ion:	146	Resp:	345220
Ion Ratio	Lower	Upper	
146	100		
111	48.0	24.3	72.8
148	63.9	31.6	94.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025



#76

1,4-Dichlorobenzene

Concen: 8.477 ppbv

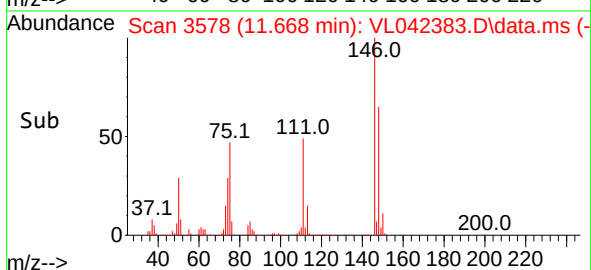
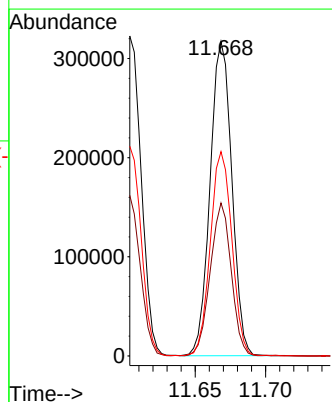
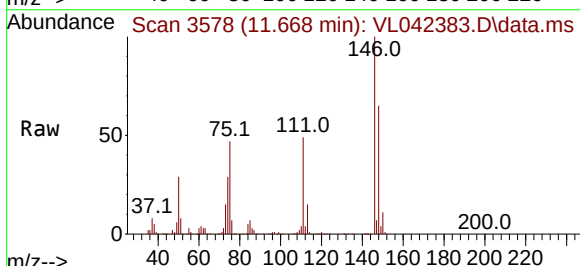
RT: 11.668 min Scan# 3578

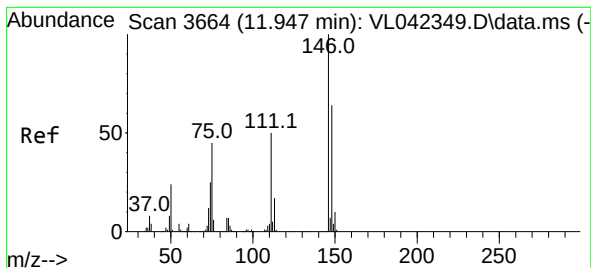
Delta R.T. -0.003 min

Lab File: VL042383.D

Acq: 18 Apr 2025 10:23

Tgt Ion:	146	Resp:	340293
Ion Ratio	Lower	Upper	
146	100		
111	47.1	24.2	72.6
148	64.7	32.1	96.5





#77

1,2-Dichlorobenzene

Concen: 8.751 ppbv

RT: 11.943 min Scan# 30

Delta R.T. -0.003 min

Lab File: VL042383.D

Acq: 18 Apr 2025 10:23

Instrument :

MSVOA_L

ClientSampleId :

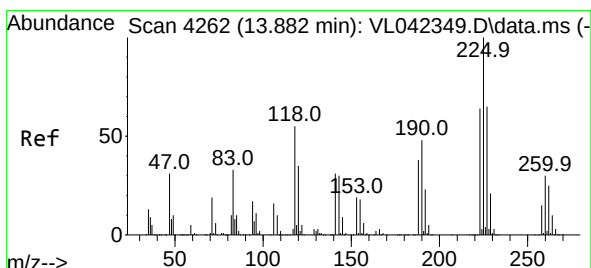
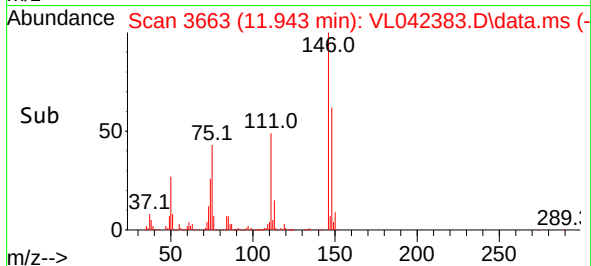
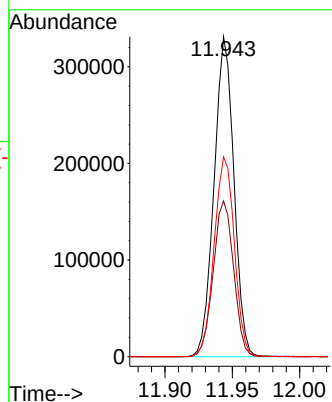
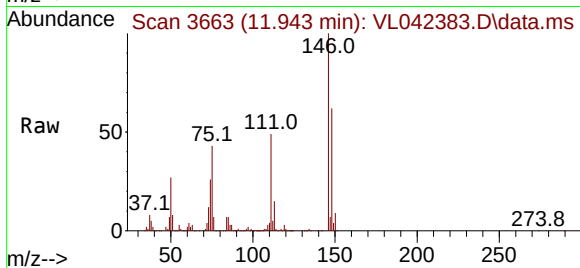
VSTDCCC010

Tgt Ion:146 Resp: 33982
 Ion Ratio Lower Upper
 146 100
 111 50.0 25.3 75.9
 148 63.7 31.5 94.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2025
 Supervised By :Mahesh Dadoda 04/21/2025



#78

Hexachloro-1,3-Butadiene

Concen: 9.061 ppbv

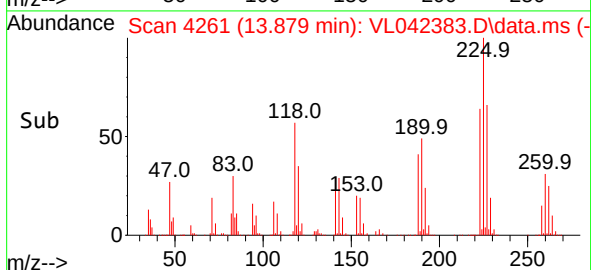
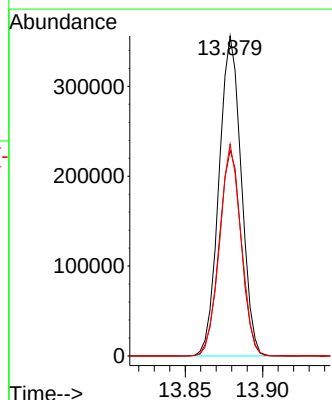
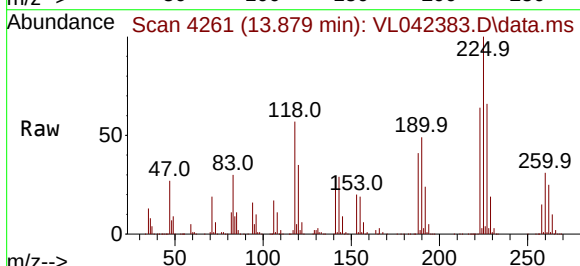
RT: 13.879 min Scan# 4261

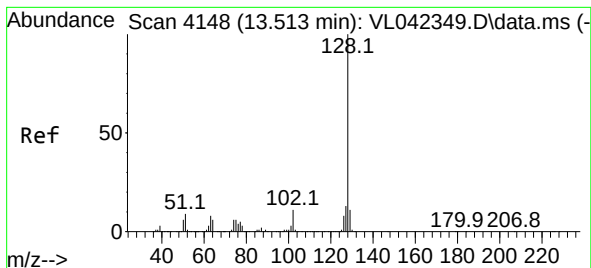
Delta R.T. -0.003 min

Lab File: VL042383.D

Acq: 18 Apr 2025 10:23

Tgt Ion:225 Resp: 355324
 Ion Ratio Lower Upper
 225 100
 223 63.8 50.3 75.5
 227 63.9 51.5 77.3





#79

Naphthalene

Concen: 7.884 ppbv

RT: 13.510 min Scan# 4148

Delta R.T. -0.003 min

Lab File: VL042383.D

Acq: 18 Apr 2025 10:23

Instrument :

MSVOA_L

ClientSampleId :

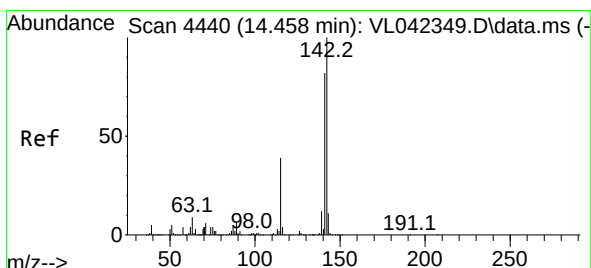
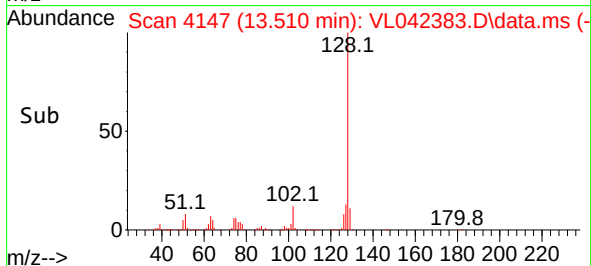
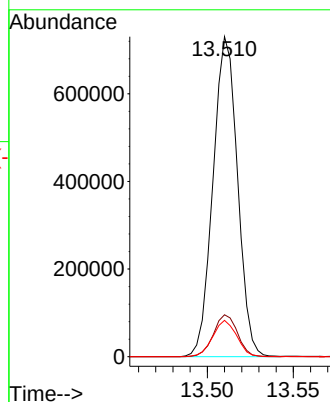
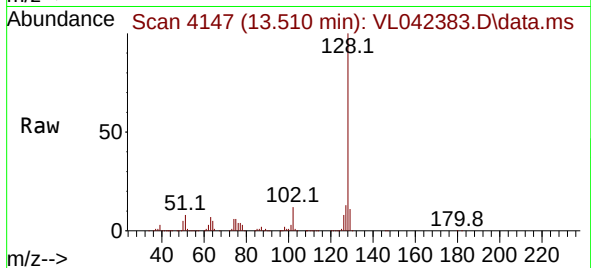
VSTDCCC010

Tgt Ion:	128	Resp:	72436
Ion Ratio	Lower	Upper	
128	100		
127	13.1	10.6	15.8
129	11.3	8.6	12.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025



#80

Naphthalene,2-methyl-

Concen: 7.566 ppbv

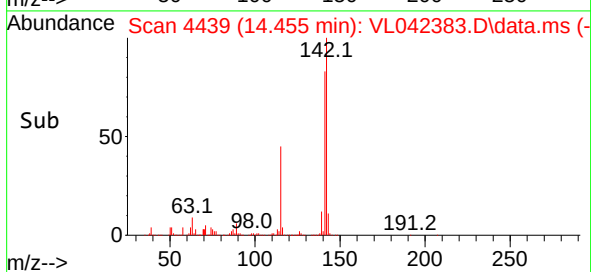
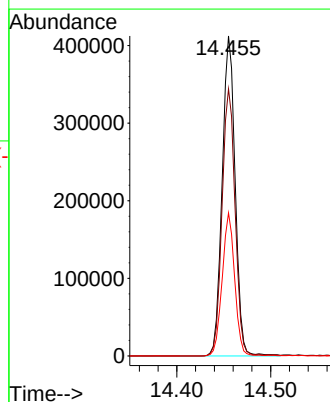
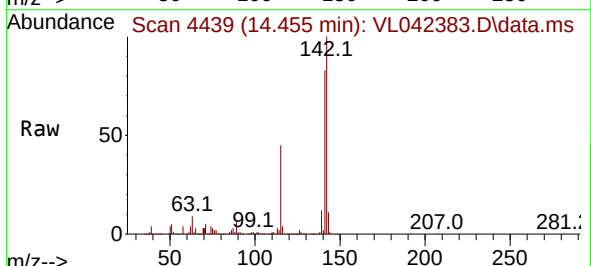
RT: 14.455 min Scan# 4439

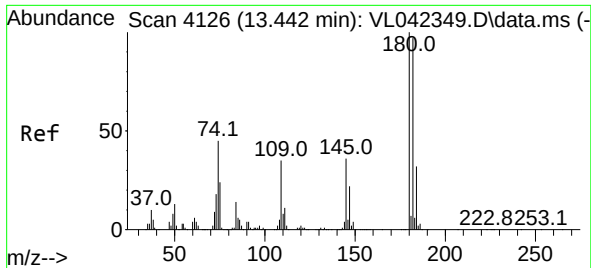
Delta R.T. -0.003 min

Lab File: VL042383.D

Acq: 18 Apr 2025 10:23

Tgt Ion:	142	Resp:	396207
Ion Ratio	Lower	Upper	
142	100		
141	84.8	66.8	100.2
115	43.4	33.4	50.2





#81

1,2,4-Trichlorobenzene

Concen: 8.737 ppbv

RT: 13.439 min Scan# 41

Delta R.T. -0.003 min

Lab File: VL042383.D

Acq: 18 Apr 2025 10:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion:180 Resp: 344709

Ion Ratio Lower Upper

180 100

182 95.8 76.8 115.2

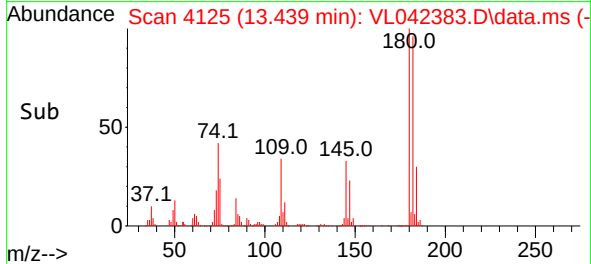
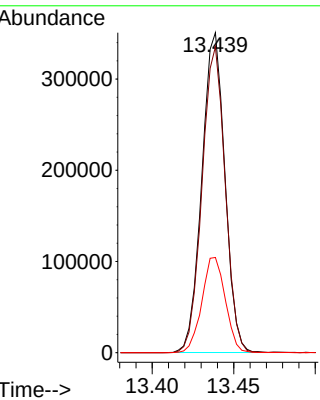
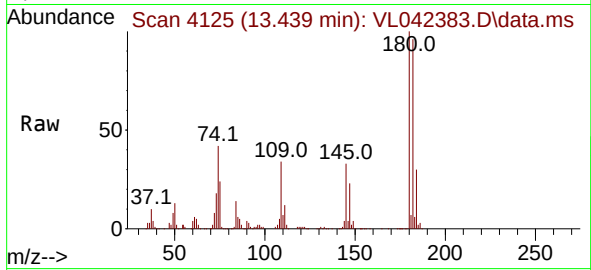
184 30.4 24.6 36.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2025

Supervised By :Mahesh Dadoda 04/21/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
 Data File : VL042383.D
 Acq On : 18 Apr 2025 10:23
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Apr 18 22:55:20 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	108	0.00
2 T	Dichlorodifluoromethane	1.767	1.674	5.3	109	0.00
3	Chlorodifluoromethane	1.682	1.437	14.6	99	0.00
4	Chloromethane	0.699	0.624	10.7	104	0.00
5 T	Vinyl Chloride	0.761	0.609	20.0	103	0.00
6 T	Bromomethane	0.327	0.291	11.0	104	0.00
7	Chloroethane	0.275	0.243	11.6	104	0.00
8 T	Dichlorotetrafluoroethane	1.517	1.422	6.3	108	0.00
9 T	Propene	0.766	0.585	23.6	92	0.00
10 T	Heptane	2.153	1.559	27.6	90	0.00
11 T	Trichlorofluoromethane	1.680	1.623	3.4	112	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.374	1.258	8.4	106	0.00
13	Ethanol	0.122	0.032#	73.8#	97	0.00
14 T	Bromoethene	0.518	0.489	5.6	108	0.00
15 T	Acetone	1.637	1.266	22.7	109	0.00
16 T	1,3-Butadiene	0.783	0.622	20.6	104	0.00
17	tert-Butyl alcohol	2.029	1.695	16.5	102	0.00
18 T	1,1-Dichloroethene	0.642	0.585	8.9	109	0.00
19 T	Isopropyl Alcohol	0.909	0.746	17.9	98	0.00
20 T	Methylene Chloride	0.641	0.484	24.5	106	0.00
21 T	Allyl Chloride	1.130	0.934	17.3	104	0.00
22 T	trans-1,2-Dichloroethene	0.731	0.653	10.7	107	0.00
23 T	Vinyl Acetate	0.663	0.472	28.8	92	0.00
24 T	1,1-Dichloroethane	1.388	1.276	8.1	108	0.00
25 T	Ethyl Acetate	4.036	3.247	19.5	96	0.00
26 T	Hexane	1.633	1.305	20.1	99	0.00
27 T	Carbon Disulfide	1.749	1.542	11.8	100	0.00
28 T	Methyl tert-Butyl Ether	1.070	0.901	15.8	104	0.00
29 T	Chloroform	2.309	2.183	5.5	110	0.00
30 T	Cyclohexane	1.320	1.145	13.3	99	0.00
31 T	cis-1,2-Dichloroethene	1.553	1.398	10.0	104	0.00
32 T	1,1,1-Trichloroethane	2.599	2.364	9.0	113	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	117	0.00
34 T	2-Butanone	0.791	0.583	26.3	99	0.00
35 T	Carbon Tetrachloride	0.905	0.787	13.0	119	0.00
36 T	Benzene	1.079	0.846	21.6	98	0.00
37 T	1,2-Dichloroethane	0.647	0.559	13.6	110	0.00
38 T	Trichloroethene	0.471	0.375	20.4	111	0.00
39 T	1,2-Dichloropropane	0.402	0.300	25.4	95	0.00
40 T	1,4-Dioxane	0.221	0.154	30.3#	99	0.00
41 T	Tetrahydrofuran	0.461	0.322	30.2#	92	0.00
42 T	Bromodichloromethane	0.901	0.778	13.7	106	0.00
43	Methyl Methacrylate	0.486	0.345	29.0	94	0.00
44 T	2,2,4-Trimethylpentane	1.863	1.374	26.2	94	-0.01
45 T	t-1,3-Dichloropropene	0.497	0.385	22.5	98	-0.01
46 T	cis-1,3-Dichloropropene	0.608	0.470	22.7	96	0.00
47 T	1,1,2-Trichloroethane	0.410	0.336	18.0	104	0.00
48 T	Dibromochloromethane	0.723	0.646	10.7	111	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
 Data File : VL042383.D
 Acq On : 18 Apr 2025 10:23
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Apr 18 22:55:20 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	0.575	9.2	109	0.00
50 T	4-Methyl-2-Pentanone	1.314	0.854	35.0#	92	0.00
51 T	2-Hexanone	1.179	0.692	41.3#	90	0.00
52 T	Tetrachloroethene	0.417	0.323	22.5	106	0.00
53 T	Toluene	1.294	1.021	21.1	100	0.00
54 T	1,2-Dibromoethane	0.586	0.489	16.6	106	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	112	0.00
56	1,1,1,2-Tetrachloroethane	0.605	0.547	9.6	112	0.00
57 T	Chlorobenzene	1.040	0.896	13.8	105	0.00
58 T	Ethyl Benzene	1.981	1.636	17.4	100	0.00
59 T	m/p-Xylene	1.596	1.335	16.4	103	0.00
60 T	o-Xylene	1.607	1.332	17.1	104	0.00
61 T	Styrene	0.767	0.633	17.5	98	0.00
62	Isopropylbenzene	2.360	1.987	15.8	103	0.00
63 T	1,1,2,2-Tetrachloroethane	1.042	0.783	24.9	101	0.00
64	n-propylbenzene	0.593	0.506	14.7	105	0.00
65	tert-Butylbenzene	2.169	1.815	16.3	107	0.00
66 T	Benzyl Chloride	0.238	0.159	33.2#	72	0.00
67	sec-Butylbenzene	3.017	2.502	17.1	105	0.00
68 S	1-Bromo-4-Fluorobenzene	0.822	0.815	0.9	110	0.00
69	p-Isopropyltoluene	2.621	2.179	16.9	106	0.00
70	n-Butylbenzene	2.730	2.195	19.6	104	0.00
71	2-Chlorotoluene	1.851	1.537	17.0	102	0.00
72 T	4-Ethyltoluene	1.965	1.622	17.5	103	0.00
73 T	1,3,5-Trimethylbenzene	1.735	1.426	17.8	105	0.00
74 T	1,2,4-Trimethylbenzene	2.026	1.579	22.1	106	0.00
75 T	1,3-Dichlorobenzene	1.053	0.910	13.6	108	0.00
76 T	1,4-Dichlorobenzene	1.059	0.897	15.3	107	0.00
77 T	1,2-Dichlorobenzene	1.024	0.896	12.5	111	0.00
78 T	Hexachloro-1,3-Butadiene	1.034	0.937	9.4	122	0.00
79 T	Naphthalene	2.423	1.910	21.2	107	0.00
80 T	Naphthalene,2-methyl-	1.381	1.045	24.3	105	0.00
81 T	1,2,4-Trichlorobenzene	1.040	0.909	12.6	113	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



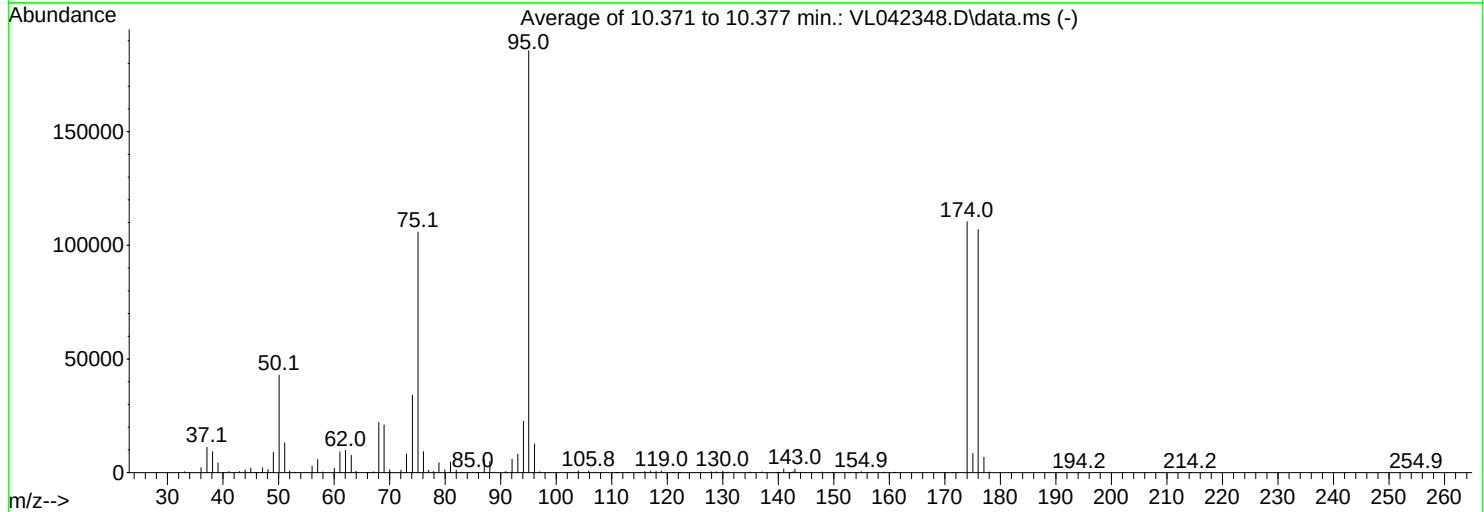
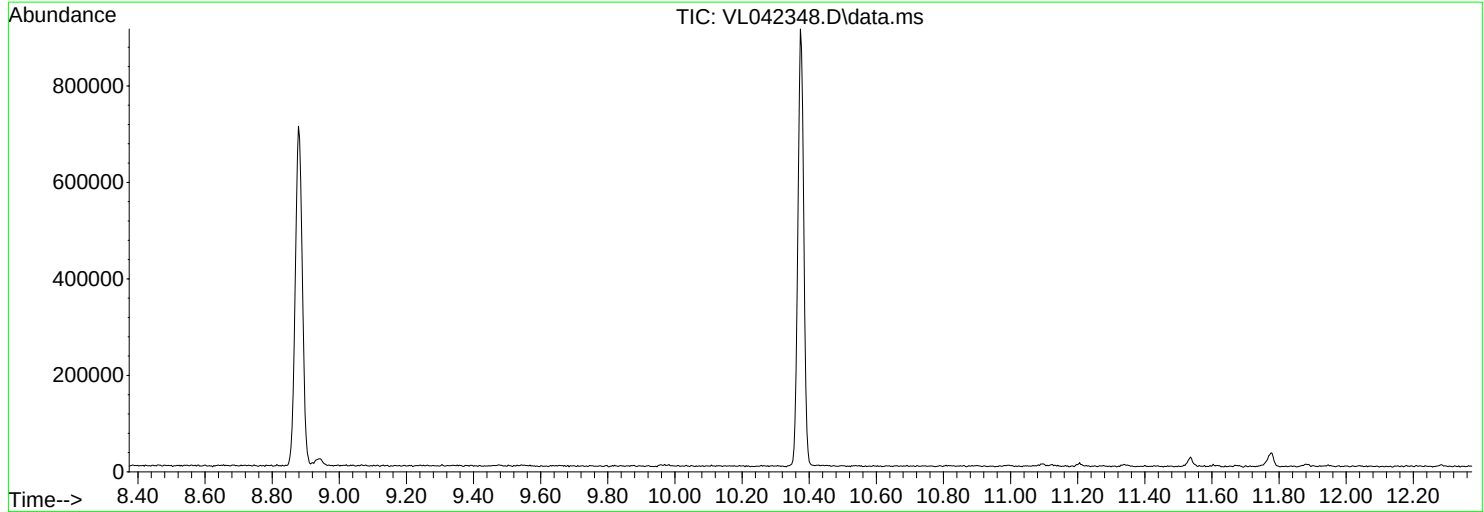
QC SAMPLE DATA

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

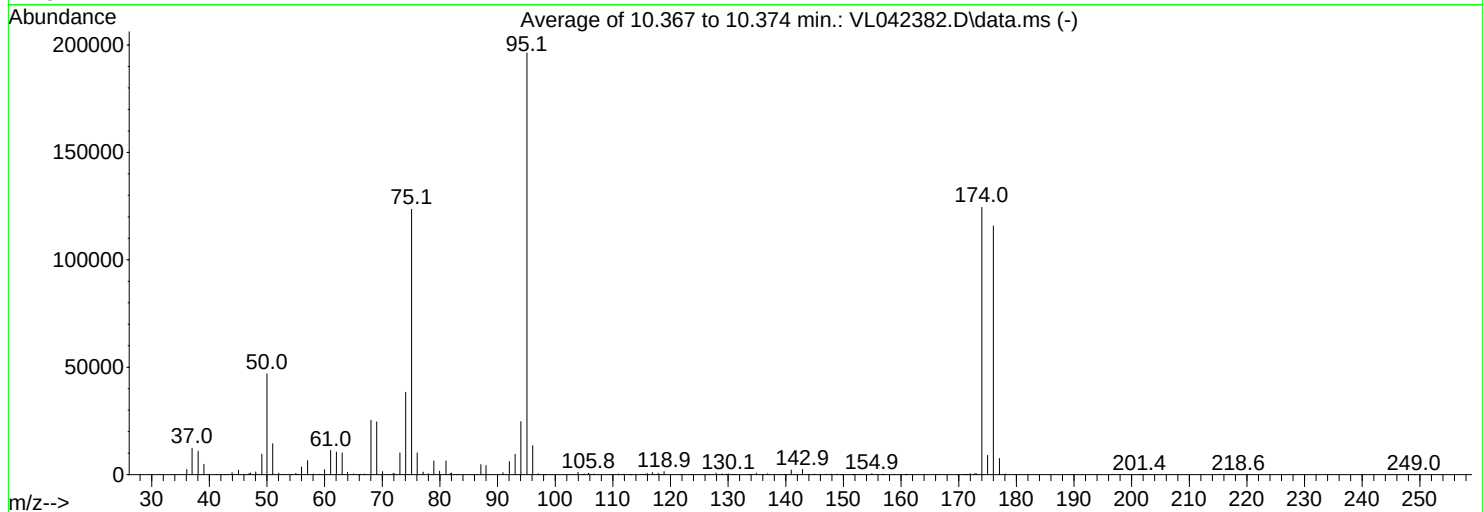
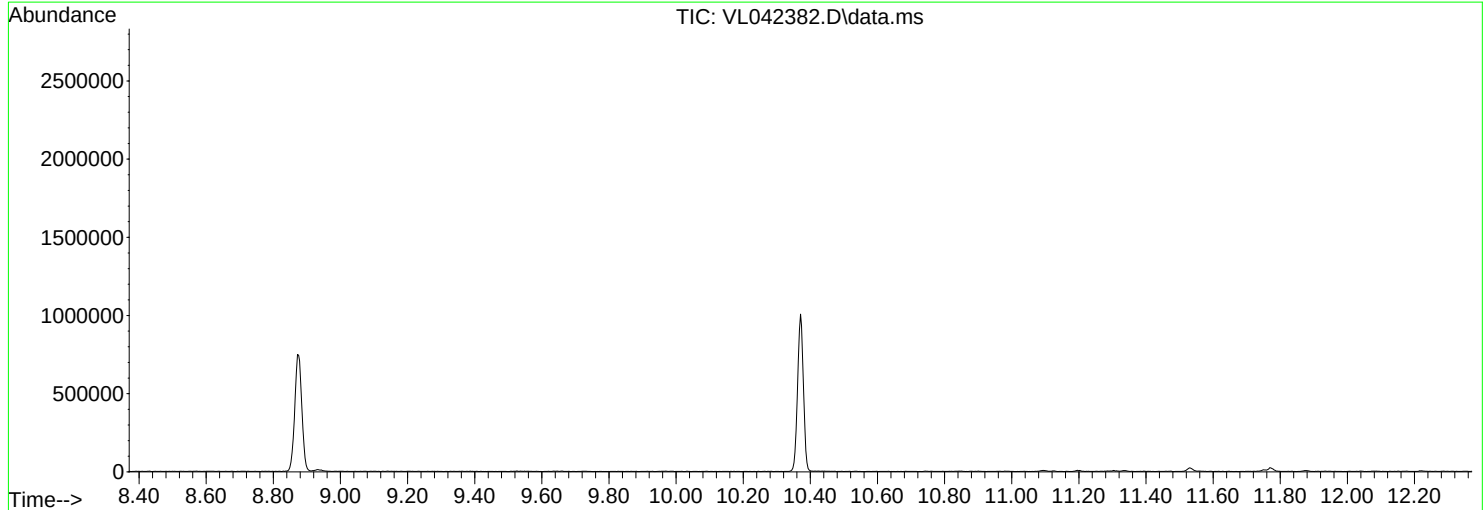
Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	8	40	23.1	42933	PASS
75	95	30	66	57.0	105781	PASS
95	95	100	100	100.0	185564	PASS
96	95	5	9	6.8	12627	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	59.5	110360	PASS
175	174	4	9	7.6	8420	PASS
176	174	93	101	96.9	106933	PASS
177	176	5	9	6.3	6744	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
Data File : VL042382.D
Acq On : 18 Apr 2025 07:51
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 3176, 3177, 3178; 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	23.9	46915	PASS
75	95	30	66	62.9	123587	PASS
95	95	100	100	100.0	196331	PASS
96	95	5	9	6.9	13533	PASS
173	174	0.00	2	0.5	606	PASS
174	95	50	120	63.4	124411	PASS
175	174	4	9	7.2	8959	PASS
176	174	93	101	93.0	115728	PASS
177	176	5	9	6.5	7500	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.:	Q1726
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
64-17-5	Ethanol	0.32	0.60	U	0.60	0.94	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
593-60-2	Bromoethene	0.12	0.52	U	0.52	2.19	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
67-63-0	Isopropyl Alcohol	0.070	0.17	U	0.17	1.23	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

Report of Analysis

Client:	Woodard & Curran	Date Collected:	
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	
Client Sample ID:	VL0417ABL01	SDG No.:	Q1726
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
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
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.:	Q1726
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 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)

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%

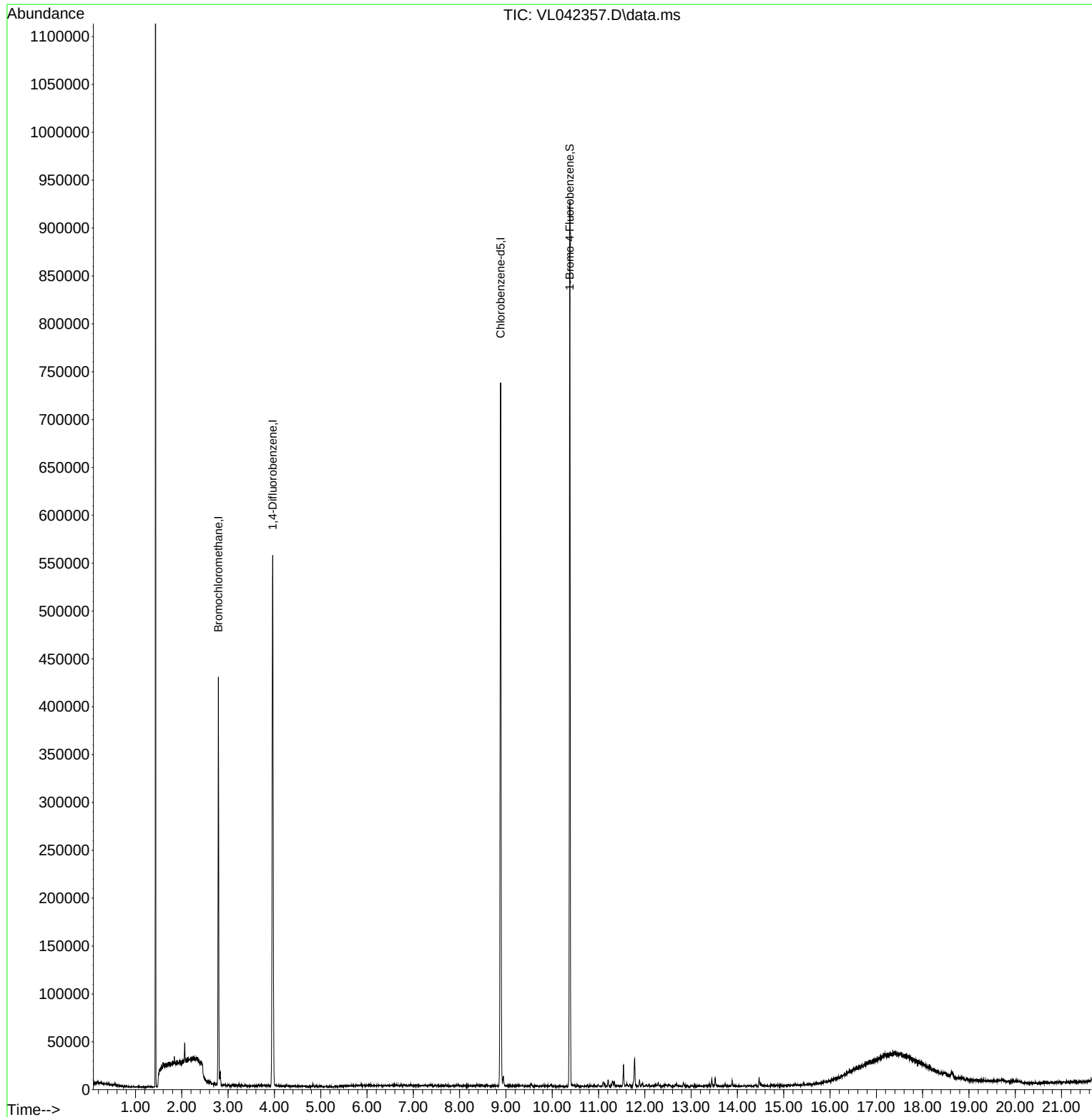
Target Compounds	Qvalue

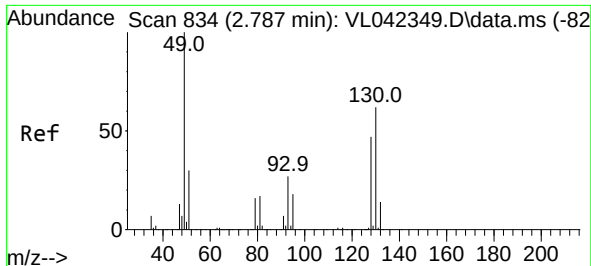
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

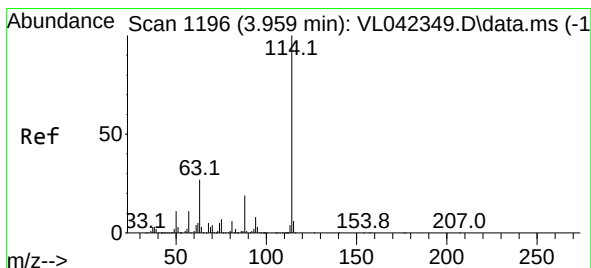
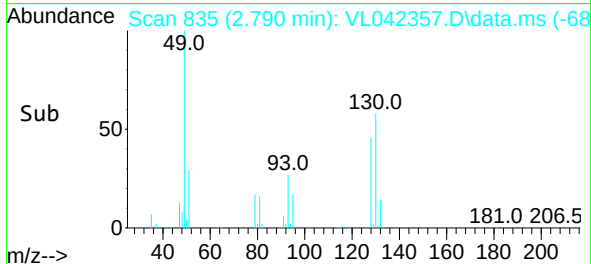
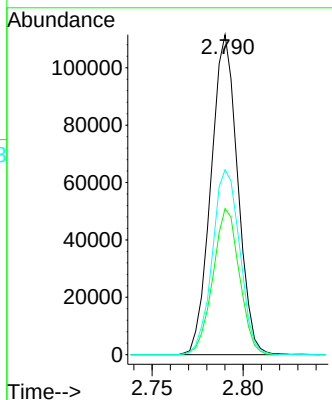
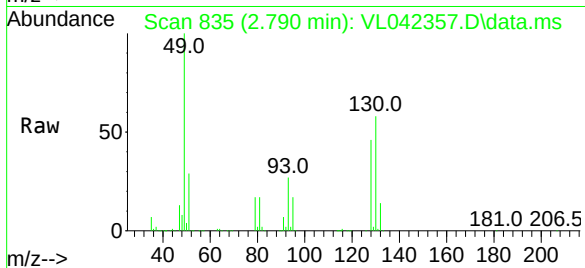




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.790 min Scan# 81
 Delta R.T. 0.003 min
 Lab File: VL042357.D
 Acq: 17 Apr 2025 14:23

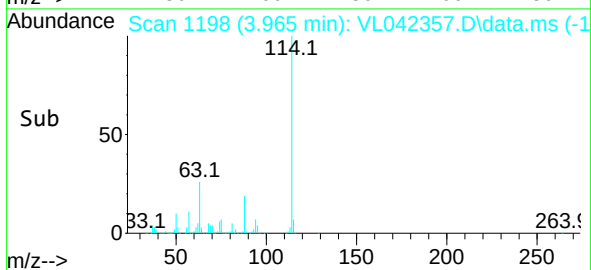
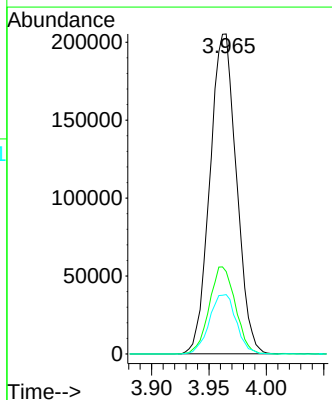
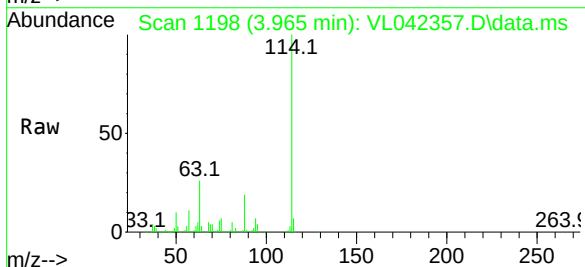
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0417ABL01

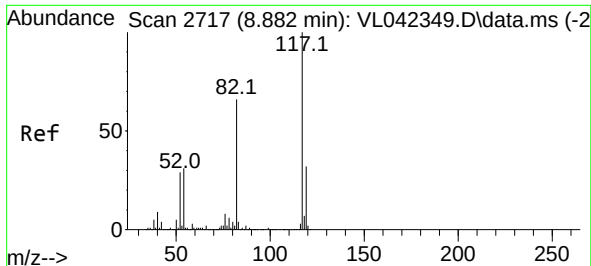
Tgt Ion: 49 Resp: 113566
 Ion Ratio Lower Upper
 49 100
 128 45.4 22.8 68.4
 130 59.4 29.3 88.0



#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

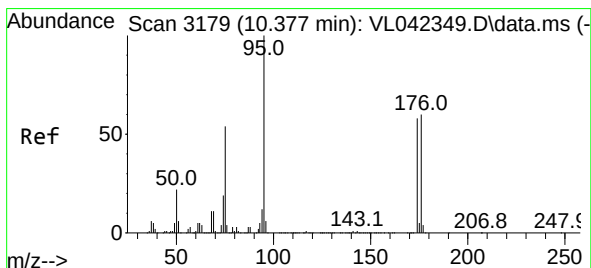
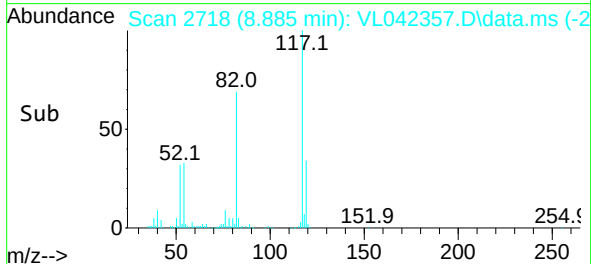
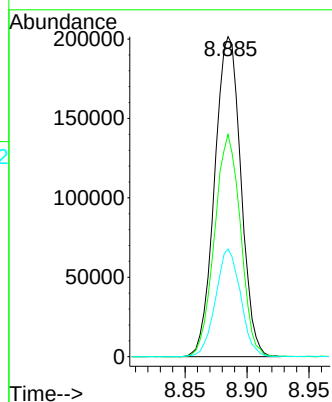
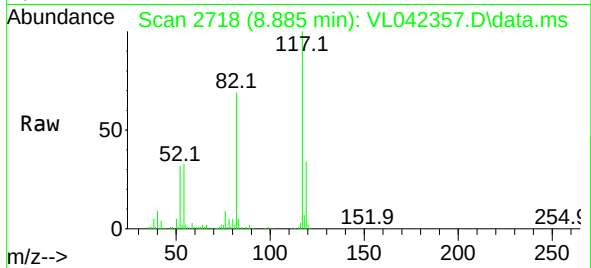




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042357.D
Acq: 17 Apr 2025 14:23

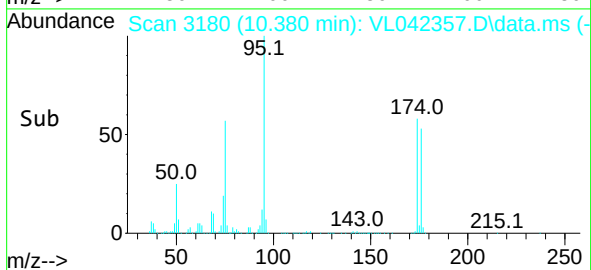
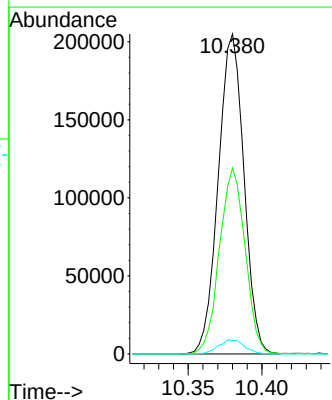
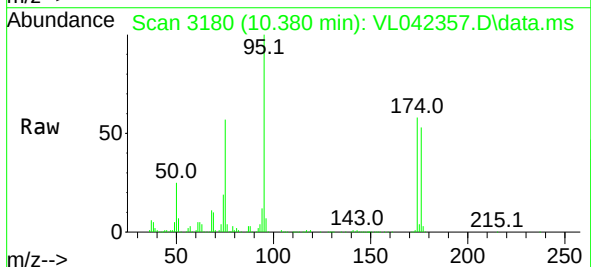
Instrument :
MSVOA_1
ClientSampleId :
VL0417ABL01

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%

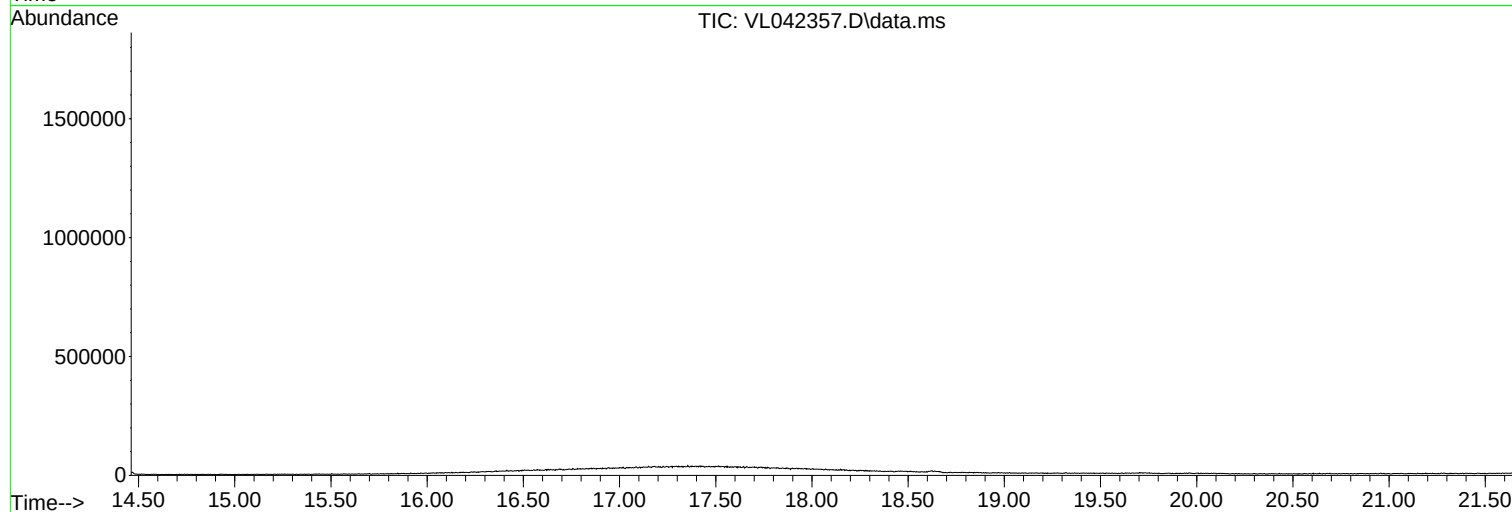
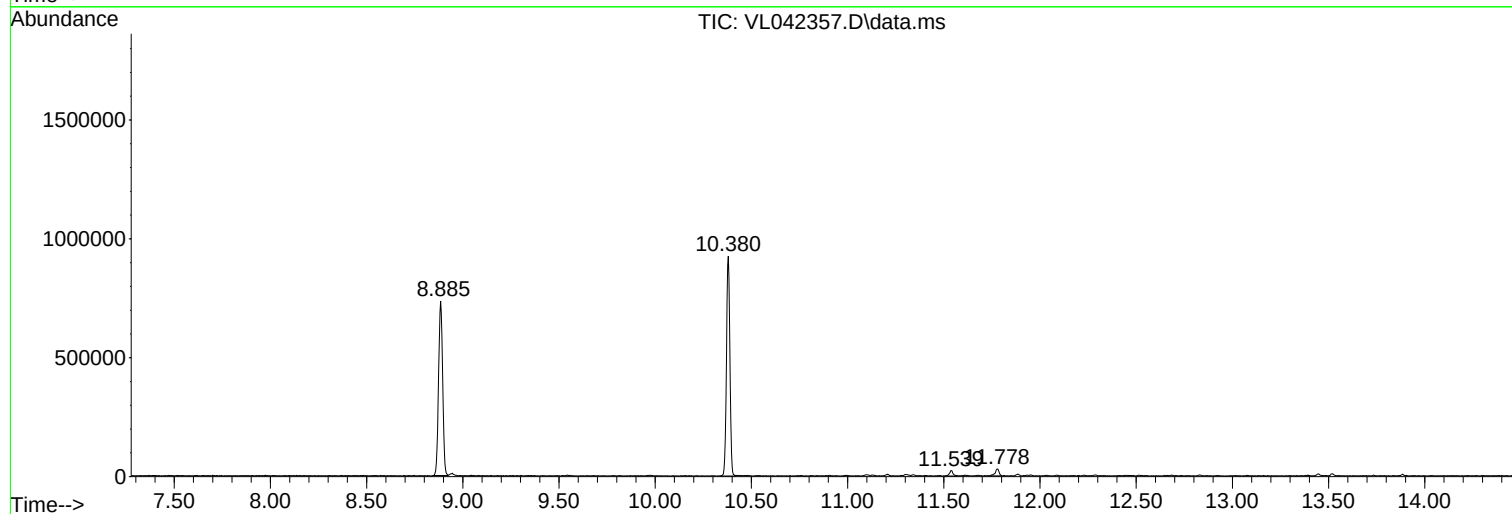
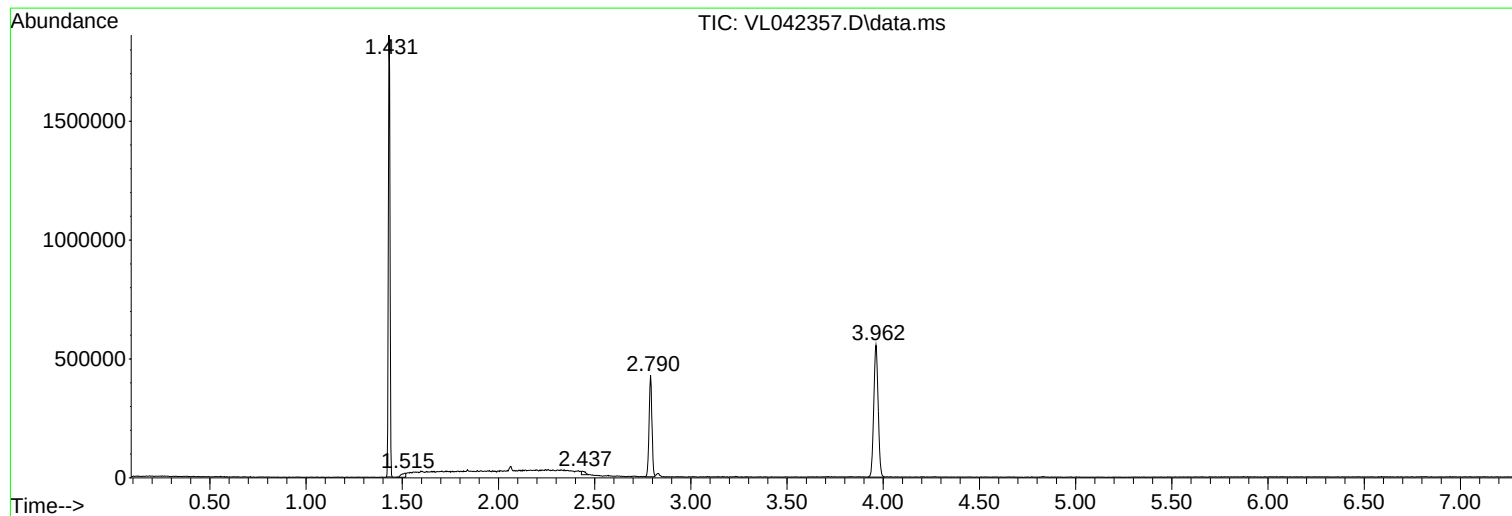
Sum of corrected areas: 4767867

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:	VL0418ABL01	SDG No.:	Q1726
Lab Sample ID:	VL0418ABL01	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
VL042384.D	1		04/18/25 10:54	VL041825

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
64-17-5	Ethanol	0.32	0.60	U	0.60	0.94	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
593-60-2	Bromoethene	0.12	0.52	U	0.52	2.19	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
67-63-0	Isopropyl Alcohol	0.070	0.17	U	0.17	1.23	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

Report of Analysis

Client:	Woodard & Curran	Date Collected:	
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	
Client Sample ID:	VL0418ABL01	SDG No.:	Q1726
Lab Sample ID:	VL0418ABL01	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
VL042384.D	1		04/18/25 10:54	VL041825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
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
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	9.80		70 (65) - 130 (135)	98%	SPK: 10
----------	-------------------------	------	--	---------------------	-----	---------

INTERNAL STANDARDS

74-97-5	Bromochloromethane	137000	2.784
540-36-3	1,4-Difluorobenzene	426000	3.955
3114-55-4	Chlorobenzene-d5	379000	8.878

Report of Analysis

Client:	Woodard & Curran	Date Collected:	
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	
Client Sample ID:	VL0418ABL01	SDG No.:	Q1726
Lab Sample ID:	VL0418ABL01	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
VL042384.D	1		04/18/25 10:54	VL041825

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\VL041825\
 Data File : VL042384.D
 Acq On : 18 Apr 2025 10:54
 Operator : SY/MD
 Sample : VL0418ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0418ABL01

Quant Time: Apr 18 22:56:14 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	2.784	49	137116	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	425910	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	379163	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	304890	9.785	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.900%

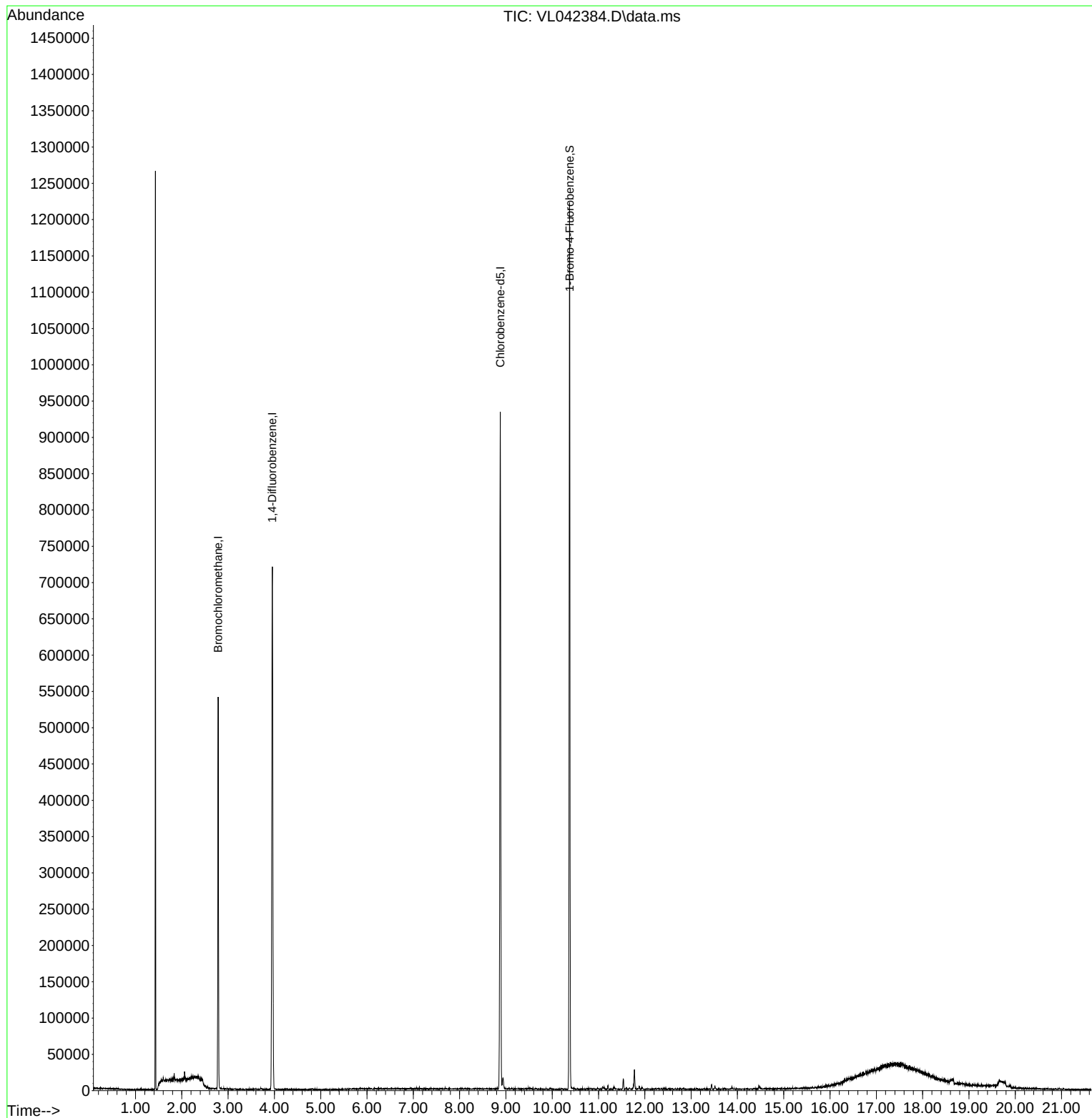
Target Compounds	Qvalue

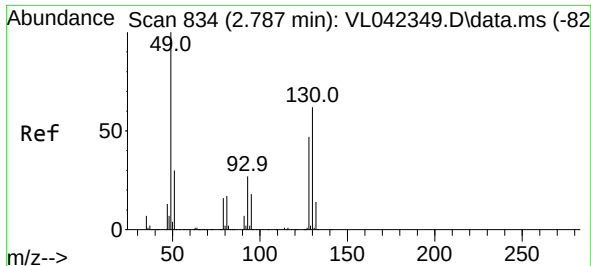
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
Data File : VL042384.D
Acq On : 18 Apr 2025 10:54
Operator : SY/MD
Sample : VL0418ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0418ABL01

Quant Time: Apr 18 22:56:14 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

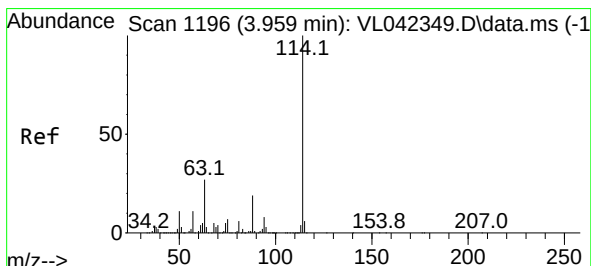
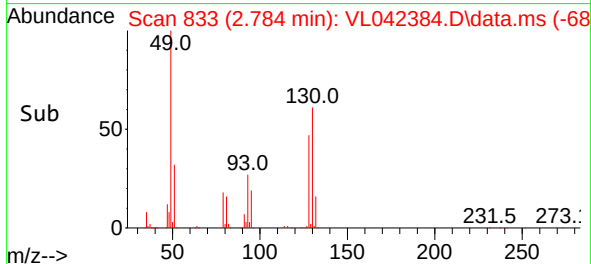
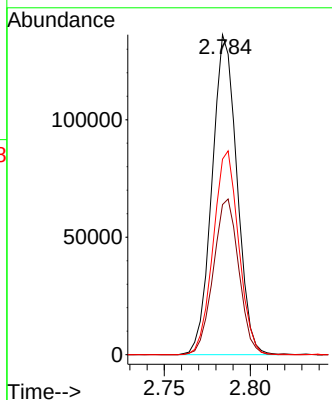
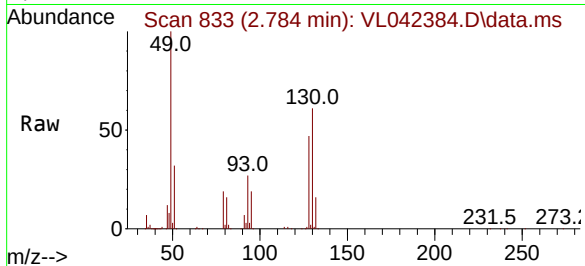




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.784 min Scan# 81
 Delta R.T. -0.003 min
 Lab File: VL042384.D
 Acq: 18 Apr 2025 10:54

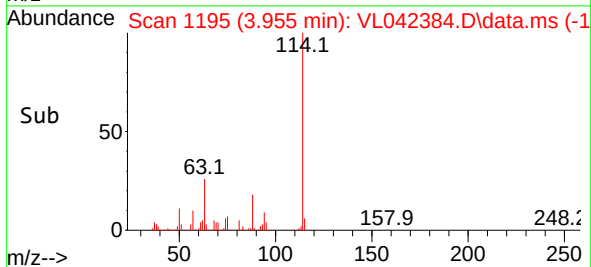
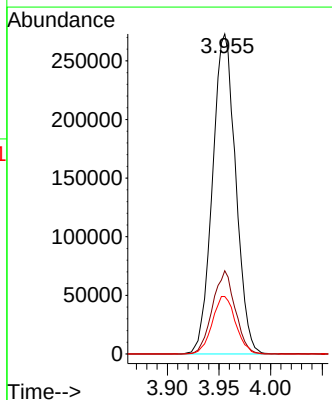
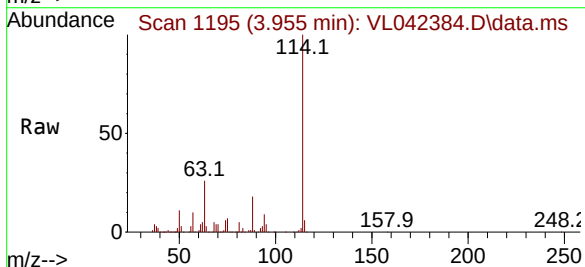
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0418ABL01

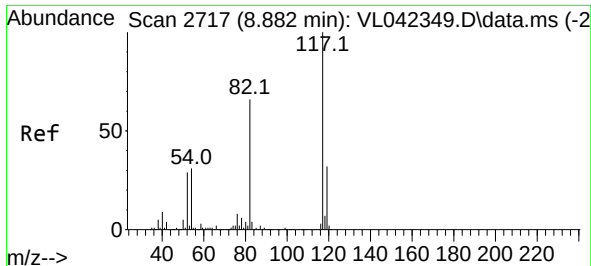
Tgt Ion: 49 Resp: 137116
 Ion Ratio Lower Upper
 49 100
 128 49.8 22.8 68.4
 130 65.2 29.3 88.0



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.955 min Scan# 1195
 Delta R.T. -0.003 min
 Lab File: VL042384.D
 Acq: 18 Apr 2025 10:54

Tgt Ion: 114 Resp: 425910
 Ion Ratio Lower Upper
 114 100
 63 25.5 21.8 32.6
 88 18.1 15.5 23.3

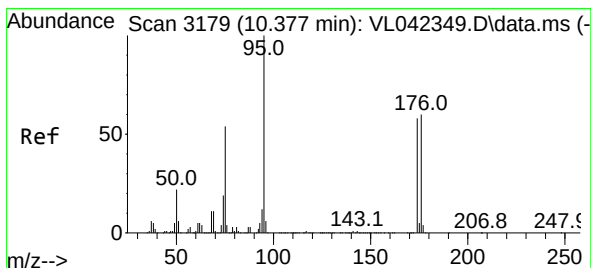
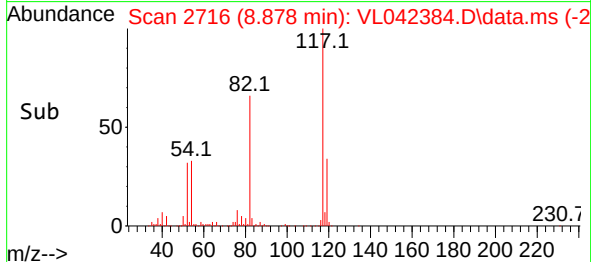
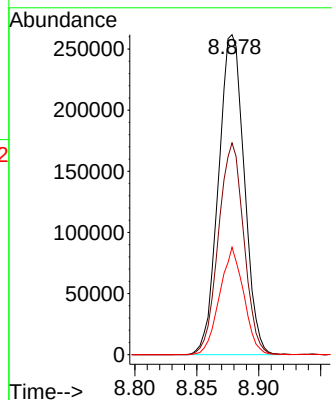
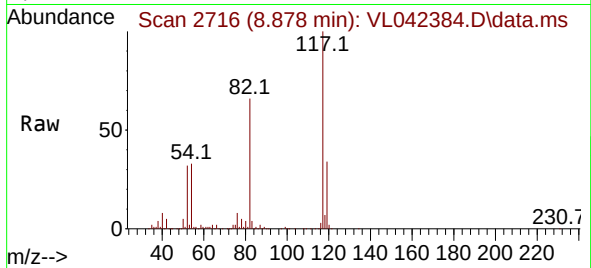




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042384.D
Acq: 18 Apr 2025 10:54

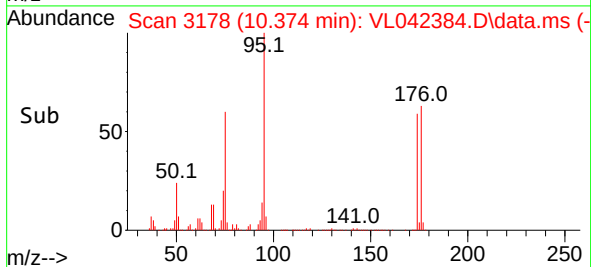
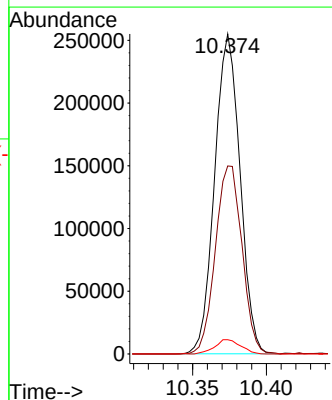
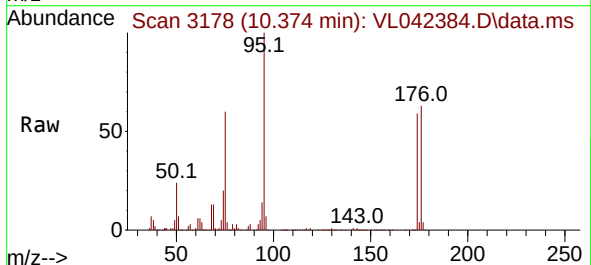
Instrument :
MSVOA_L
ClientSampleId :
VL0418ABL01

Tgt Ion:117 Resp: 379163
Ion Ratio Lower Upper
117 100
82 65.4 57.8 86.6
119 31.4 25.2 37.8



#68
1-Bromo-4-Fluorobenzene
Concen: 9.785 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. -0.003 min
Lab File: VL042384.D
Acq: 18 Apr 2025 10:54

Tgt Ion: 95 Resp: 304890
Ion Ratio Lower Upper
95 100
174 61.8 48.5 72.7
175 4.6 3.7 5.5



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
Data File : VL042384.D
Acq On : 18 Apr 2025 10:54
Operator : SY/MD
Sample : VL0418ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0418ABL01

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

Signal : TIC: VL042384.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	419	rBV	1265090	704975	48.50%	13.352%
2	2.784	825	833	843	rBV	540110	563773	38.79%	10.677%
3	3.955	1181	1195	1212	rBV	720775	1132512	77.92%	21.449%
4	8.878	2702	2716	2726	rBV	932980	1346789	92.66%	25.507%
5	8.937	2726	2734	2743	rVB3	14568	25907	1.78%	0.491%
6	10.374	3166	3178	3189	rBV	1221965	1453470	100.00%	27.528%
7	11.536	3528	3537	3544	rVB6	15182	20616	1.42%	0.390%
8	11.775	3600	3611	3618	rVB4	26764	31990	2.20%	0.606%

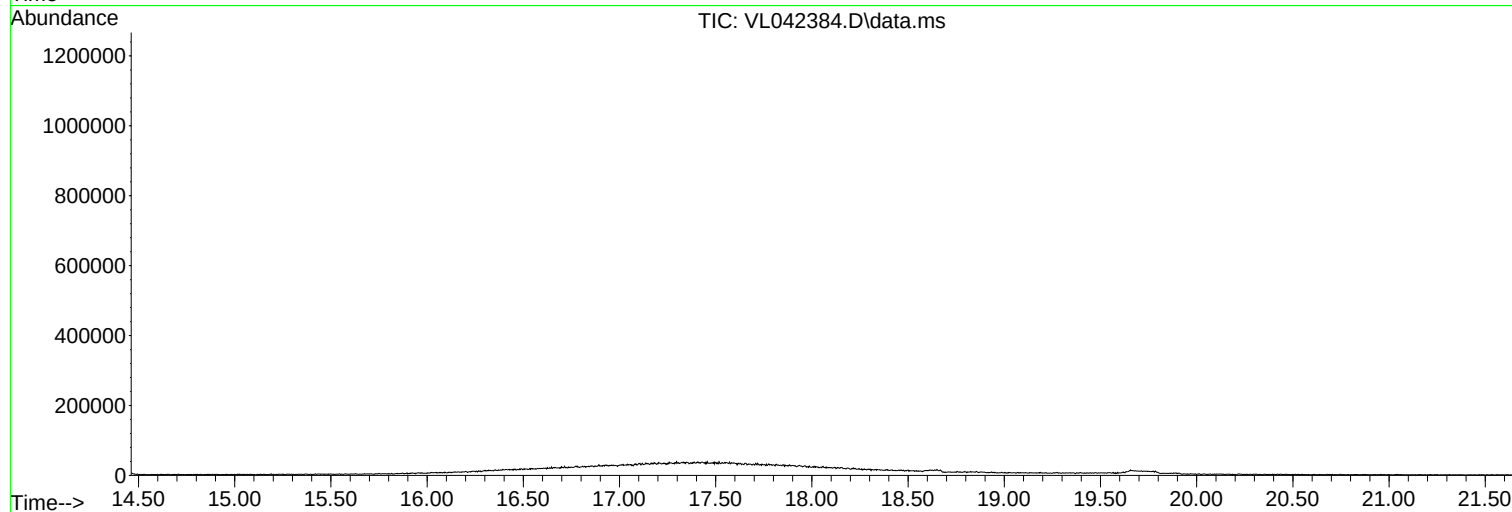
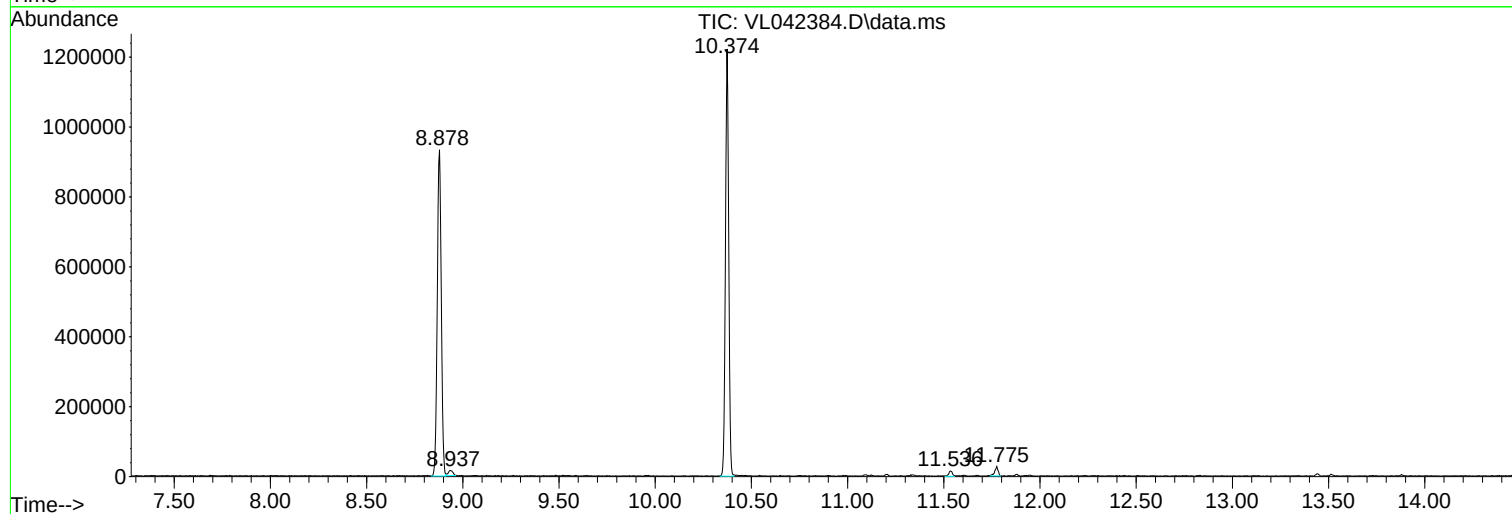
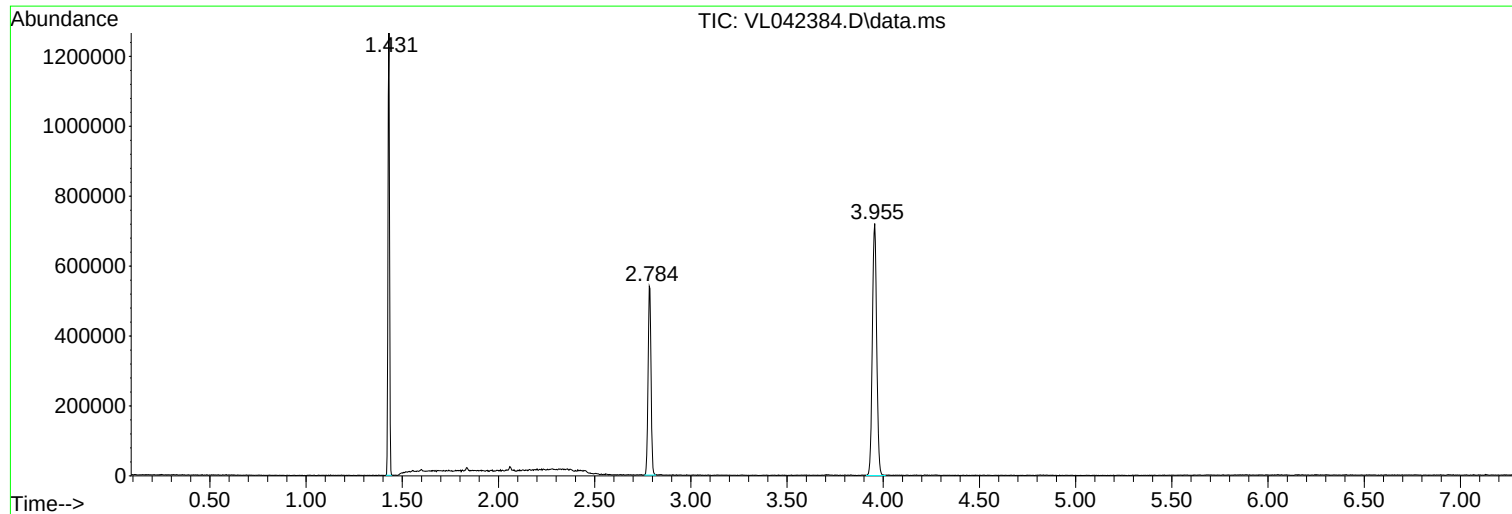
Sum of corrected areas: 5280032

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
Data File : VL042384.D
Acq On : 18 Apr 2025 10:54
Operator : SY/MD
Sample : VL0418ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0418ABL01

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\VL041825\
Data File : VL042384.D
Acq On : 18 Apr 2025 10:54
Operator : SY/MD
Sample : VL0418ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0418ABL01

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\VL041825\
Data File : VL042384.D
Acq On : 18 Apr 2025 10:54
Operator : SY/MD
Sample : VL0418ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0418ABL01

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	--Internal Standard--			
					#	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.:	Q1726
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
64-17-5	Ethanol	3.20	6.03		0.60	0.94	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
593-60-2	Bromoethene	9.80	42.9		0.52	2.19	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
67-63-0	Isopropyl Alcohol	9.40	23.1		0.17	1.23	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

Report of Analysis

Client:	Woodard & Curran	Date Collected:	
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	
Client Sample ID:	VL0417ABS01	SDG No.:	Q1726
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
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
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.:	Q1726
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

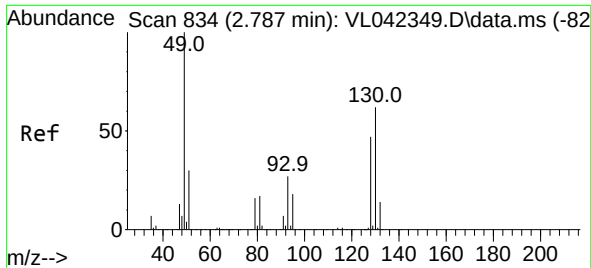
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

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

Response via : Initial Calibration

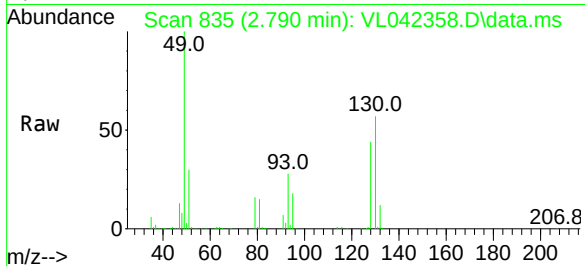
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.606	75	216901	10.133	ppbv	91
47) 1,1,2-Trichloroethane	6.590	97	146547	10.161	ppbv	96
48) Dibromochloromethane	7.396	129	261470	10.261	ppbv	100
49) Bromoform	9.487	173	221372	9.936	ppbv	99
50) 4-Methyl-2-Pentanone	5.758	43	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

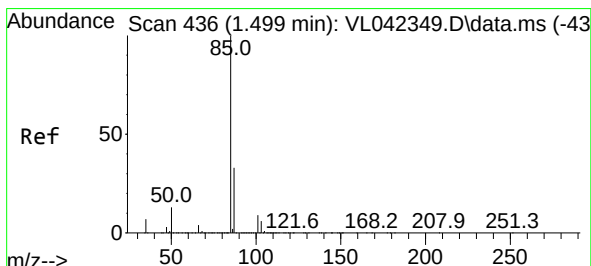
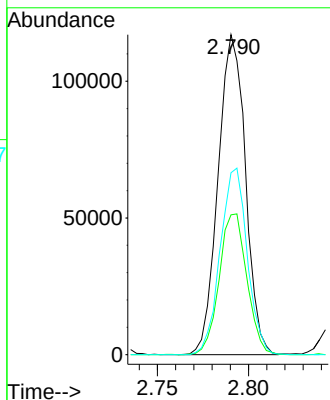
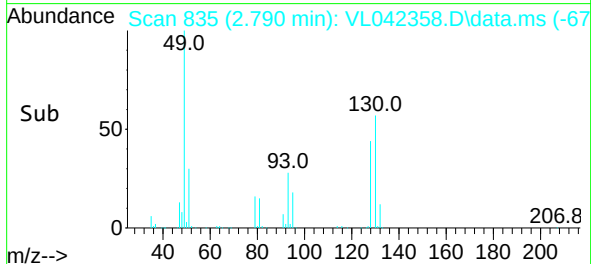
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01



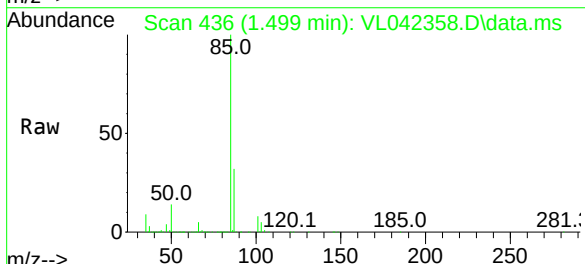
Tgt Ion: 49 Resp: 122375
Ion Ratio Lower Upper
49 100
128 44.5 22.8 68.4
130 57.6 29.3 88.0

Manual Integrations
APPROVED

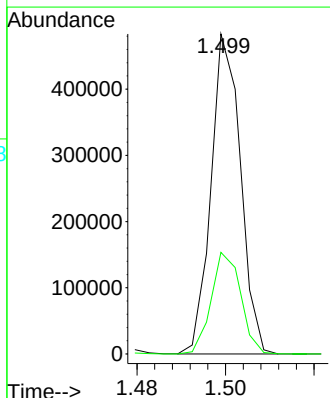
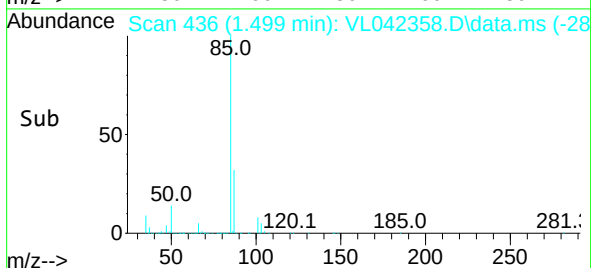
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

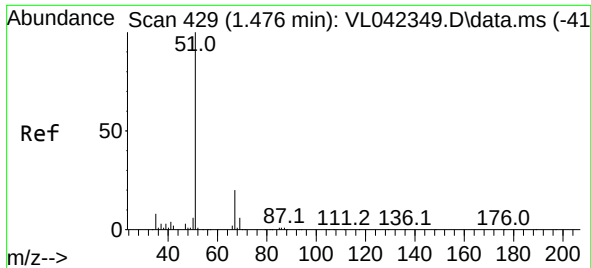


#2
Dichlorodifluoromethane
Concen: 10.337 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39



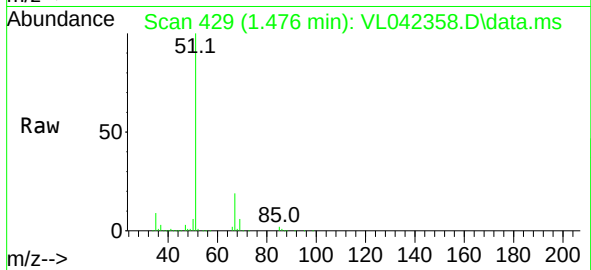
Tgt Ion: 85 Resp: 223505
Ion Ratio Lower Upper
85 100
87 31.7 26.6 39.8





#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

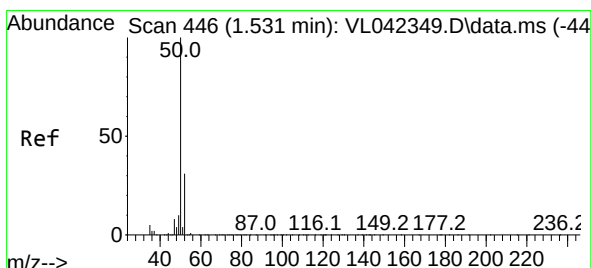
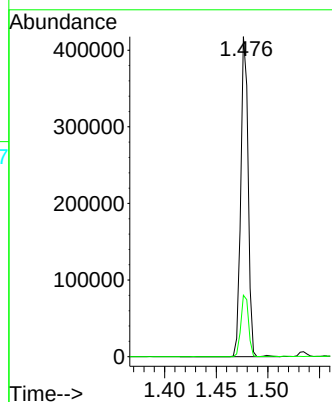
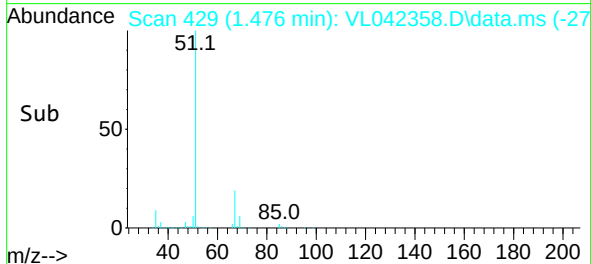
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01



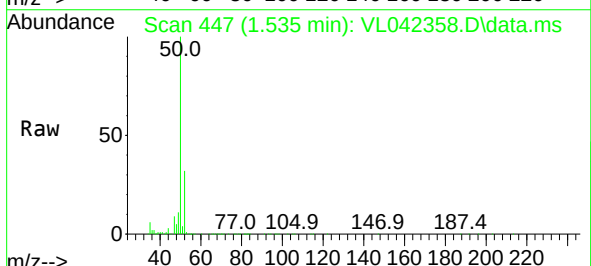
Tgt Ion: 51 Resp: 206172
Ion Ratio Lower Upper
51 100
67 20.2 16.2 24.4

Manual Integrations
APPROVED

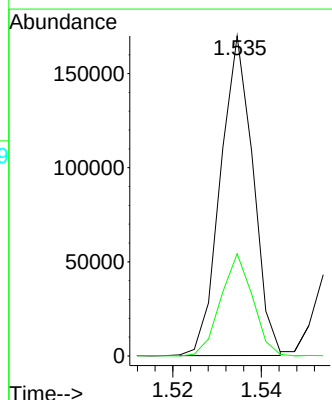
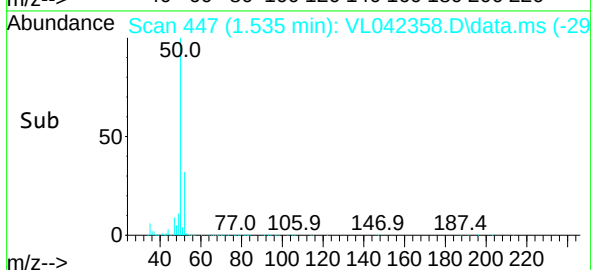
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

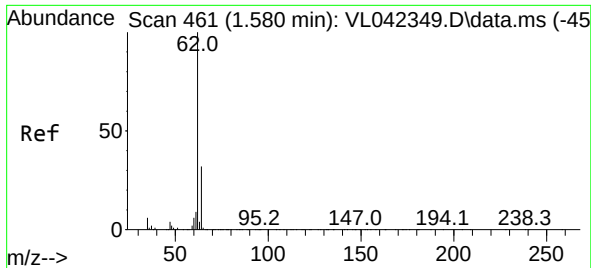


#4
Chloromethane
Concen: 10.130 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39



Tgt Ion: 50 Resp: 86675
Ion Ratio Lower Upper
50 100
52 32.1 24.7 37.1





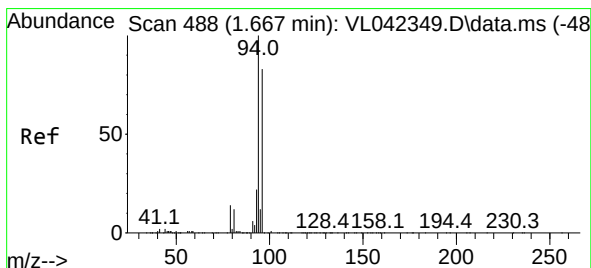
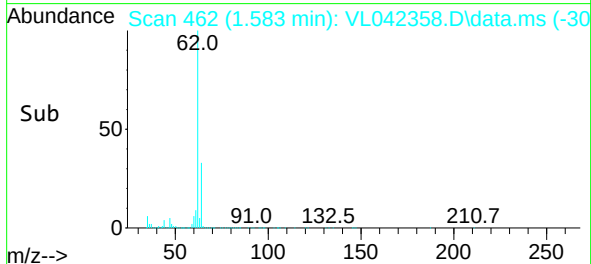
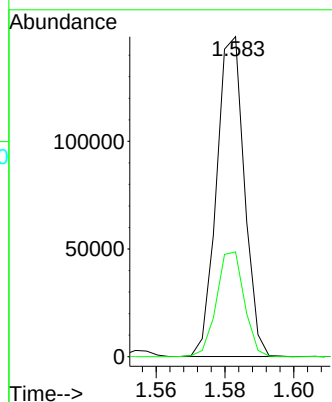
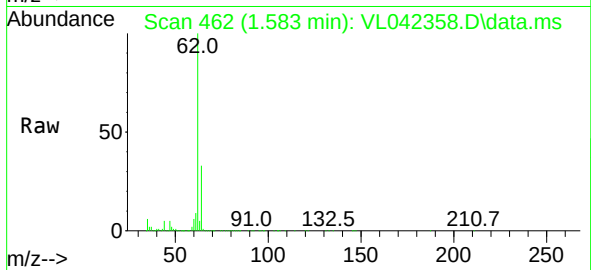
#5
 Vinyl Chloride
 Concen: 8.956 ppbv
 RT: 1.583 min Scan# 461
 Delta R.T. 0.003 min
 Lab File: VL042358.D
 Acq: 17 Apr 2025 15:39

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0417ABS01

Tgt Ion: 62 Resp: 83419
 Ion Ratio Lower Upper
 62 100
 64 32.8 25.4 38.0

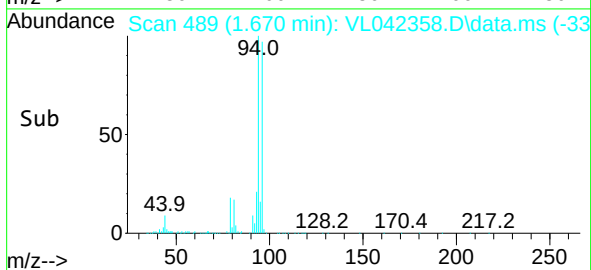
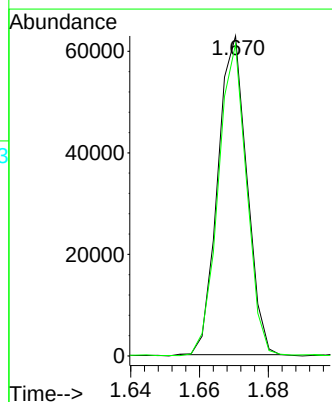
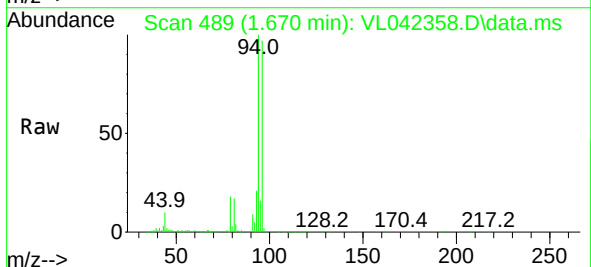
Manual Integrations
 APPROVED

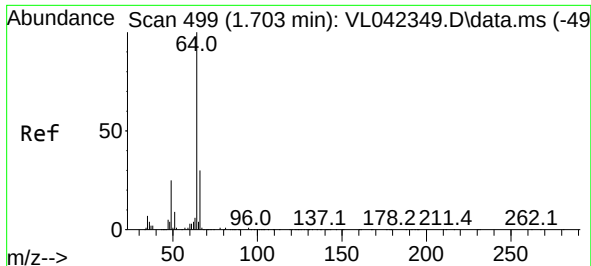
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#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

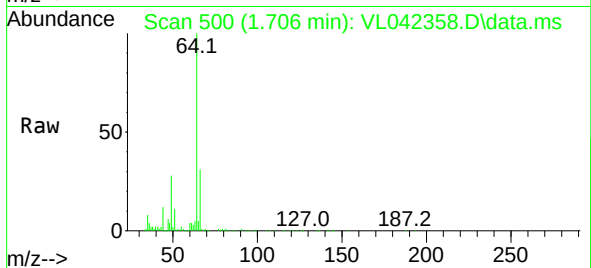
Tgt Ion: 94 Resp: 36951
 Ion Ratio Lower Upper
 94 100
 96 97.7 66.2 99.2





#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

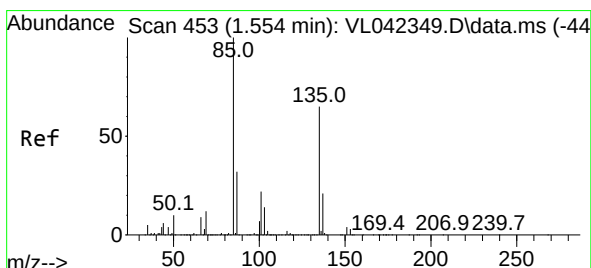
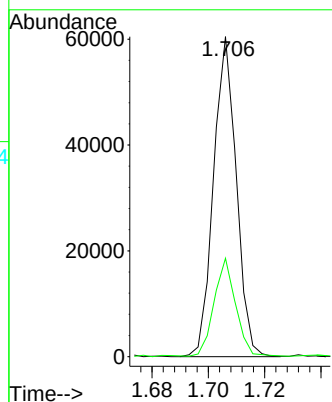
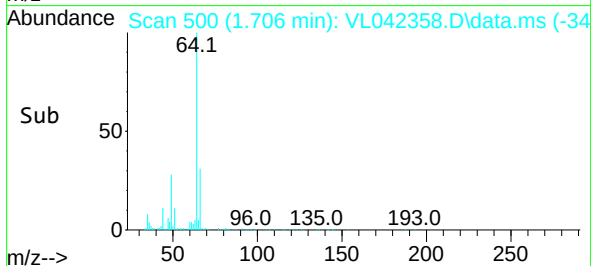
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01



Tgt Ion: 64 Resp: 33930
Ion Ratio Lower Upper
64 100
66 30.7 24.6 37.0

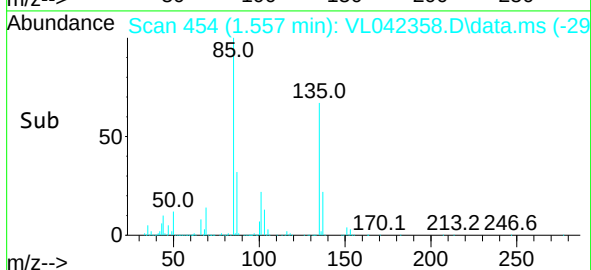
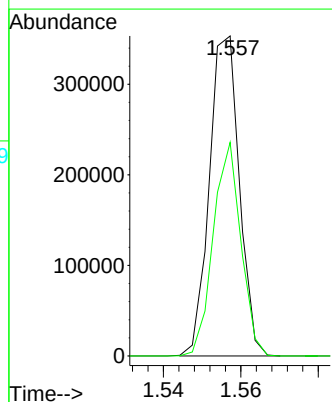
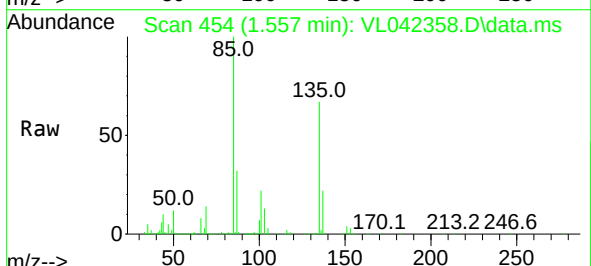
Manual Integrations
APPROVED

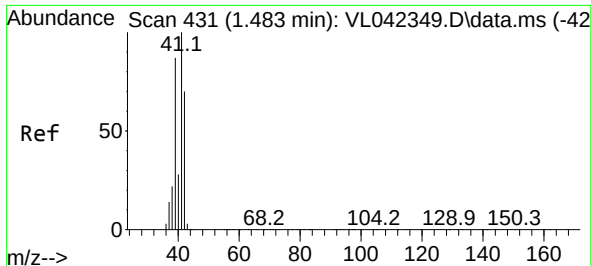
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

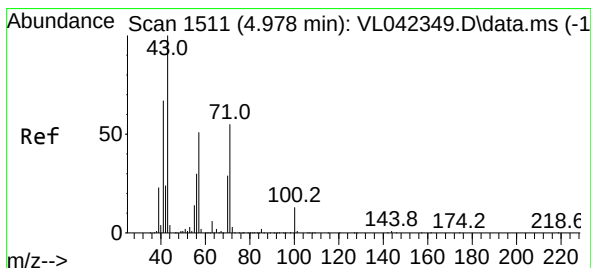
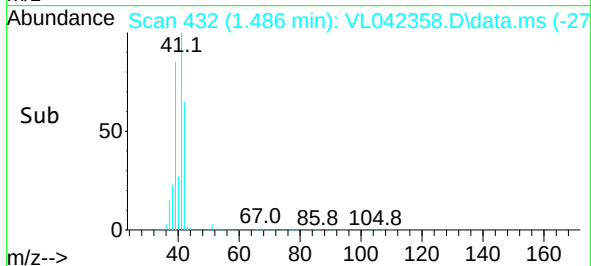
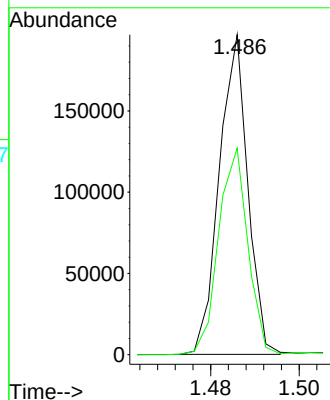
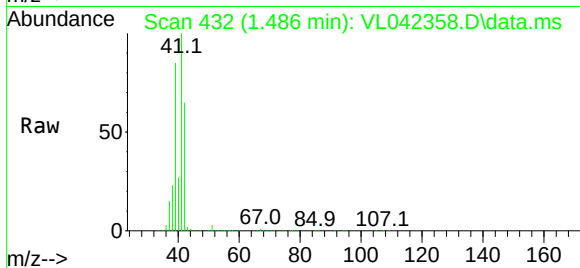
42 68.4 56.2 84.4

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

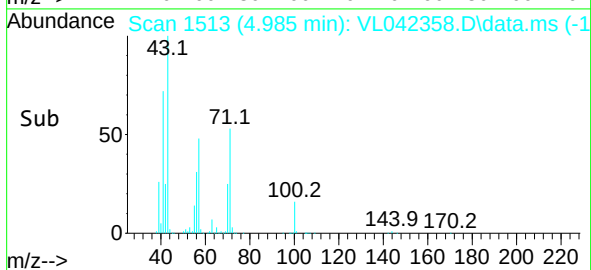
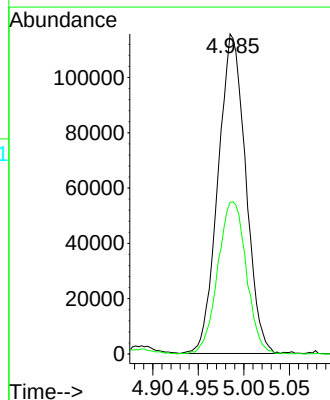
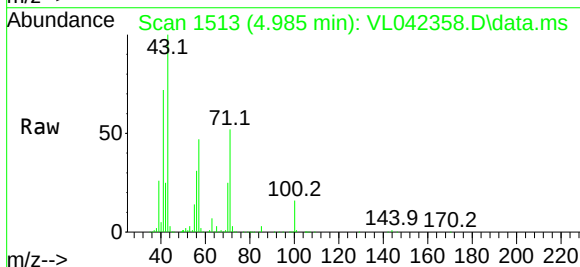
Acq: 17 Apr 2025 15:39

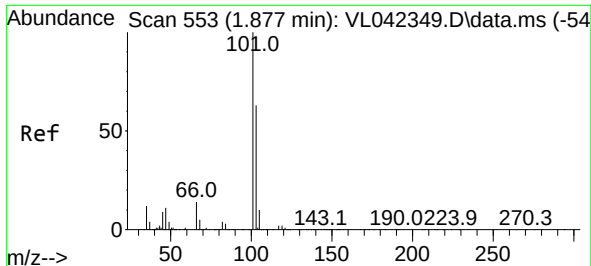
Tgt Ion: 43 Resp: 243501

Ion Ratio Lower Upper

43 100

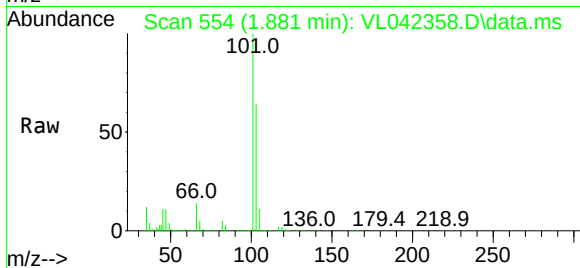
57 49.4 39.9 59.9





#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

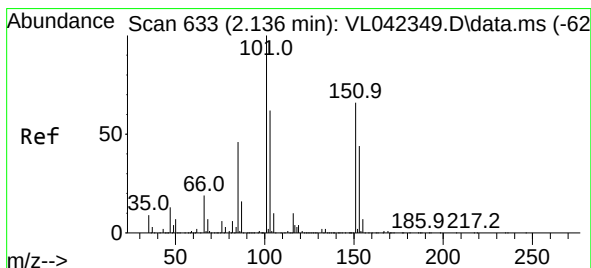
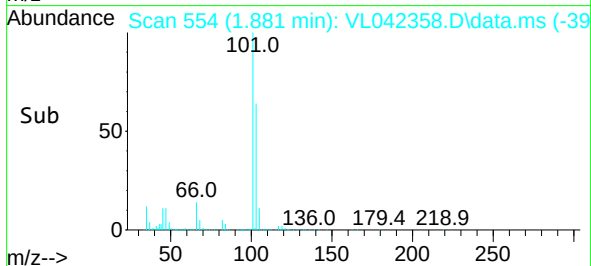
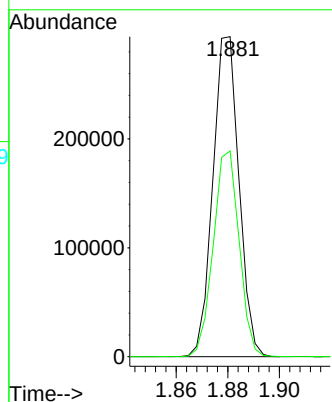
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01



Tgt Ion:101 Resp: 206649
Ion Ratio Lower Upper
101 100
103 64.3 50.1 75.1

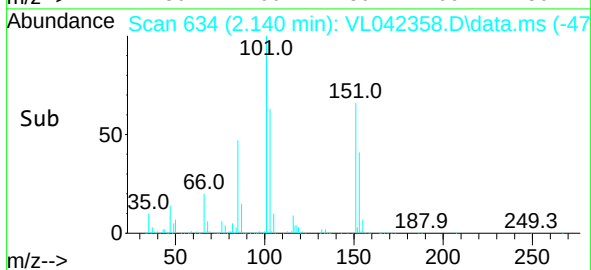
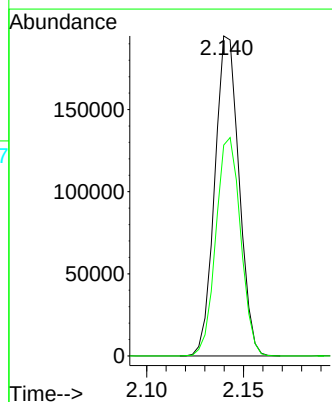
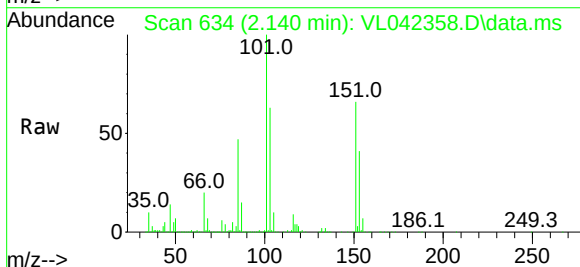
Manual Integrations
APPROVED

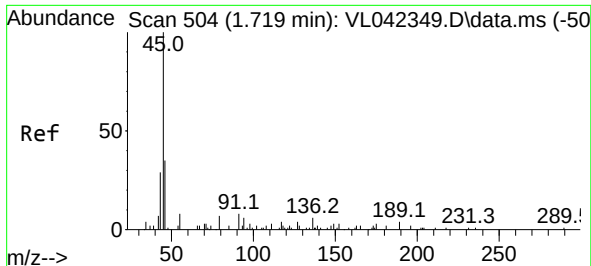
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

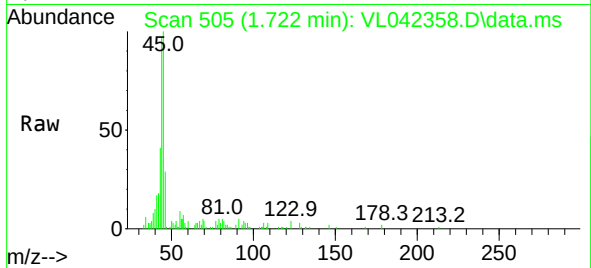
Tgt Ion:101 Resp: 169501
Ion Ratio Lower Upper
101 100
151 69.6 57.0 85.6





#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

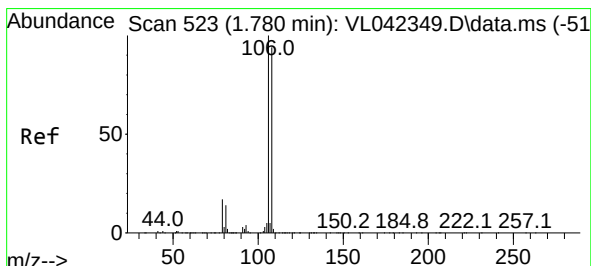
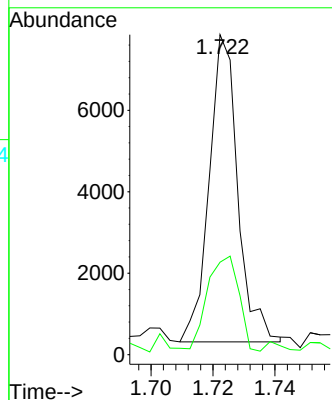
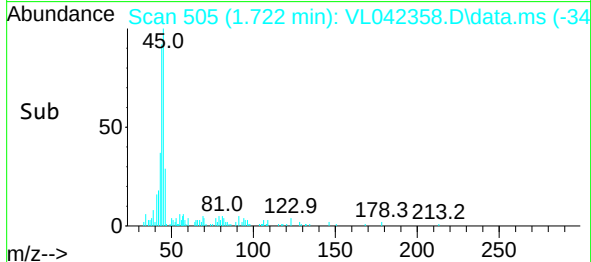
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01



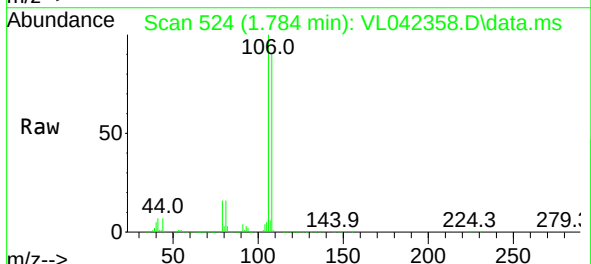
Tgt Ion: 45 Resp: 483
Ion Ratio Lower Upper
45 100
46 45.8 21.9 87.7

Manual Integrations
APPROVED

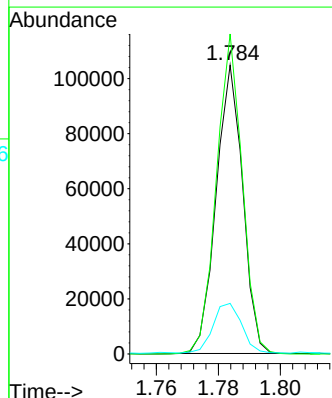
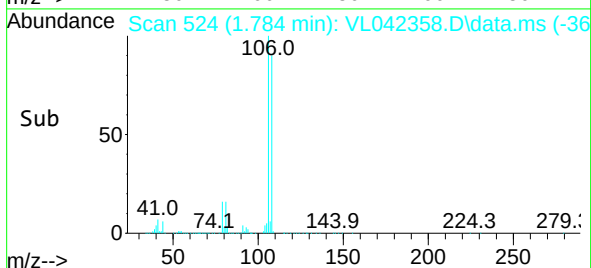
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

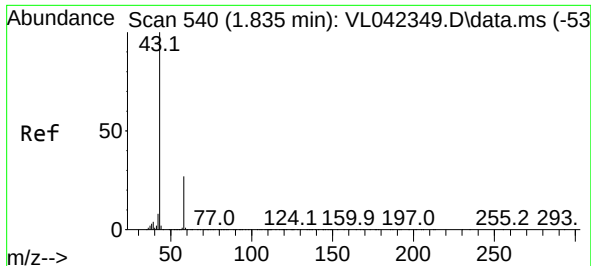


#14
Bromoethene
Concen: 9.818 ppbv
RT: 1.784 min Scan# 524
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39



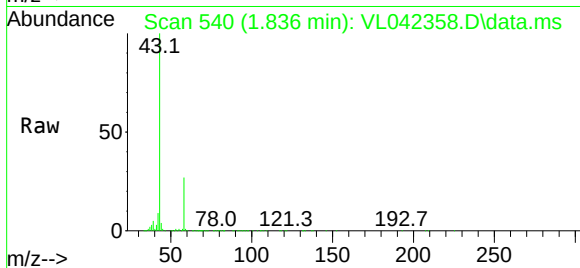
Tgt Ion:108 Resp: 62214
Ion Ratio Lower Upper
108 100
106 108.2 85.9 128.9
79 20.6 13.9 20.9





#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

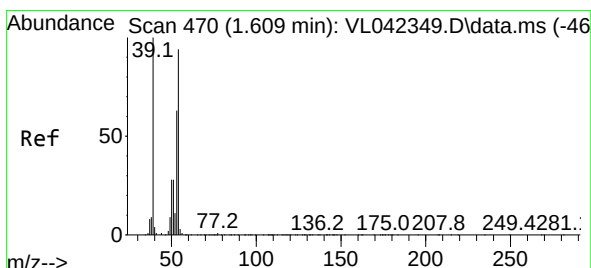
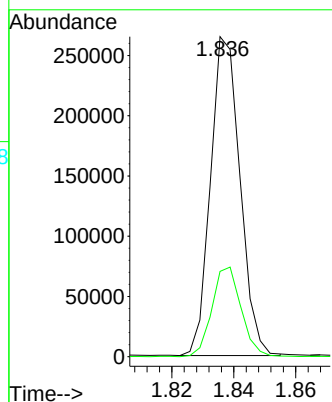
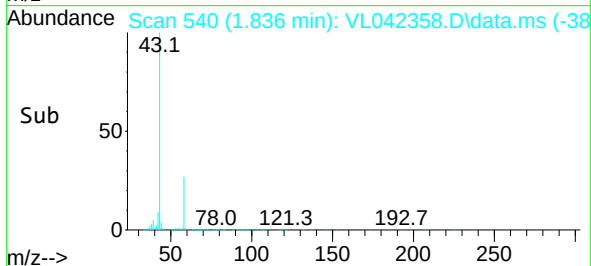
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01



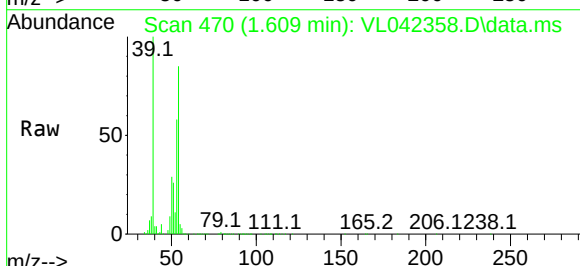
Tgt Ion: 43 Resp: 17515
Ion Ratio Lower Upper
43 100
58 27.9 22.4 33.6

Manual Integrations
APPROVED

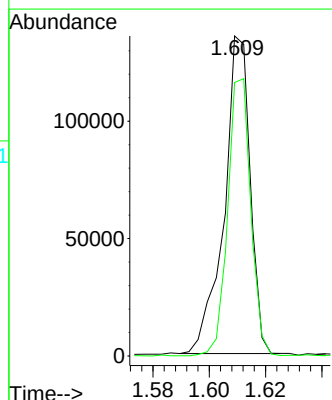
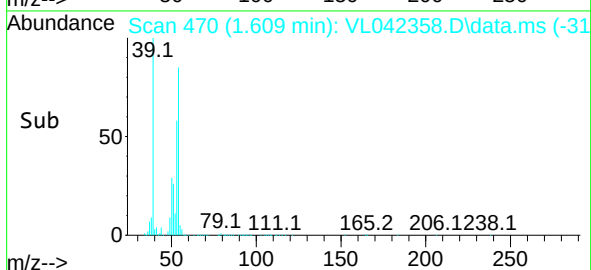
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

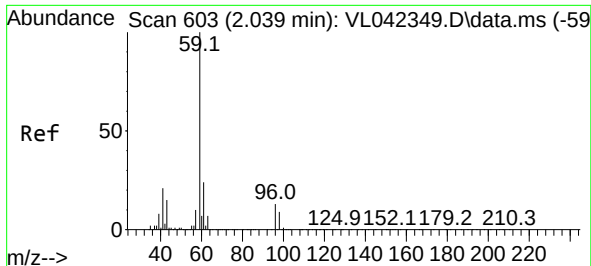


#16
1,3-Butadiene
Concen: 9.076 ppbv
RT: 1.609 min Scan# 470
Delta R.T. 0.000 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39



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

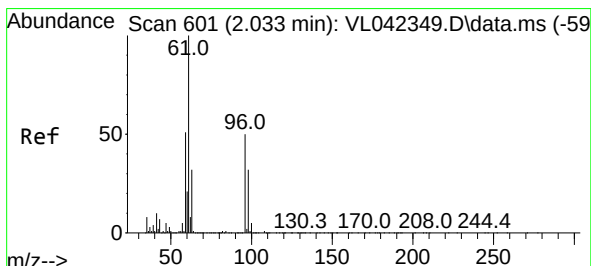
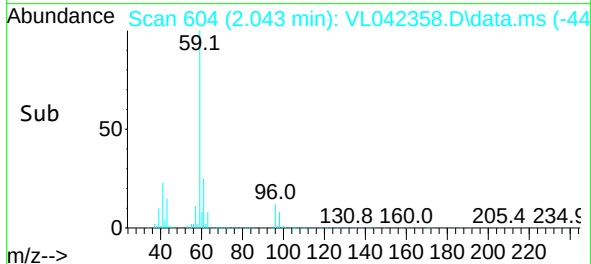
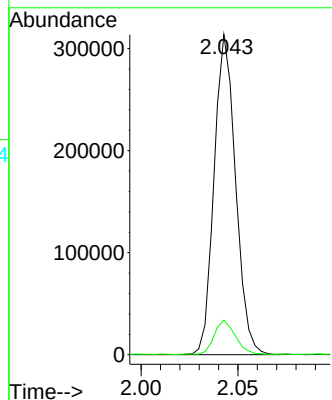
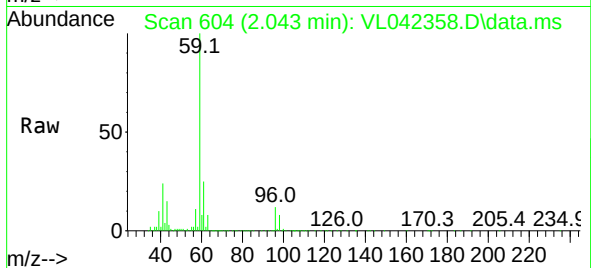
57 10.9 8.7 13.1

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

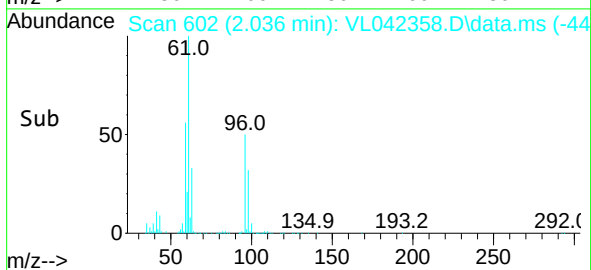
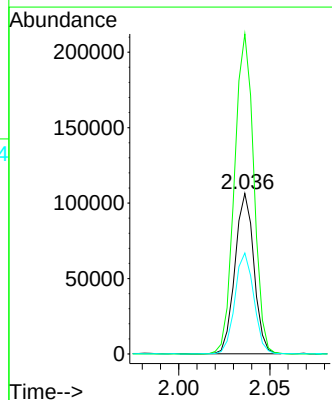
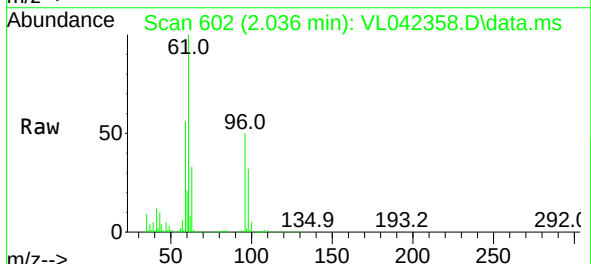
Tgt Ion: 96 Resp: 77247

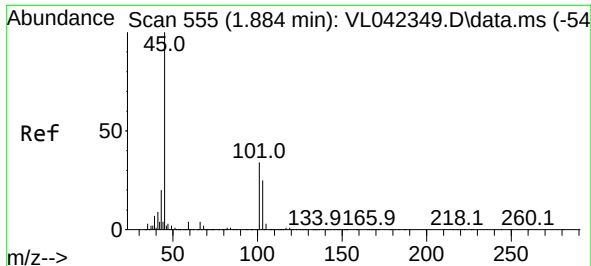
Ion Ratio Lower Upper

96 100

61 199.6 160.2 240.2

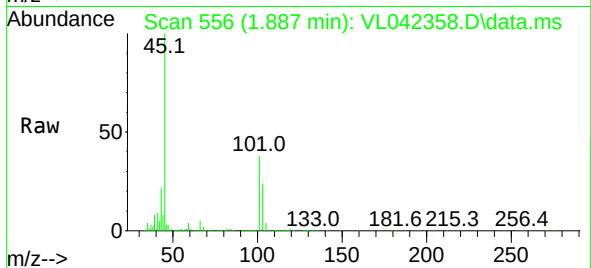
98 63.0 51.0 76.4





#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

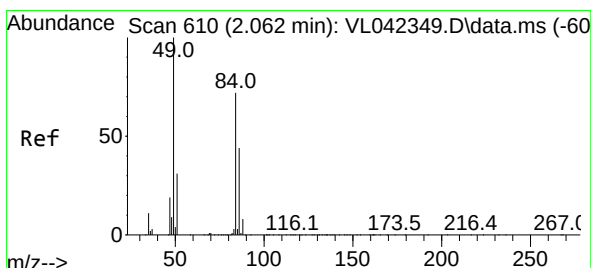
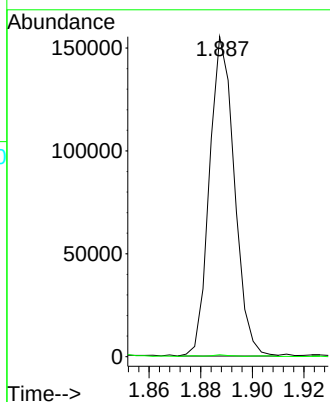
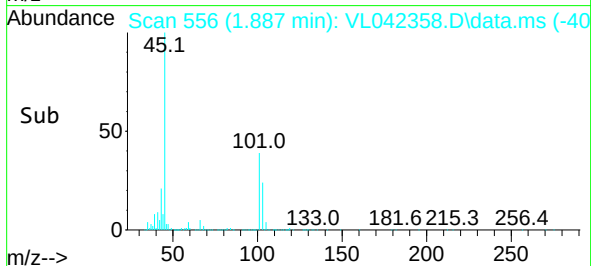
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01



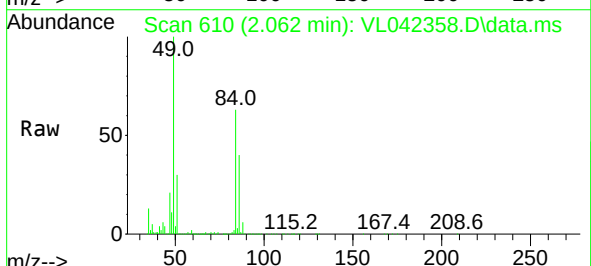
Tgt Ion: 45 Resp: 10412
Ion Ratio Lower Upper
45 100
58 46.9 34.5 51.7

Manual Integrations
APPROVED

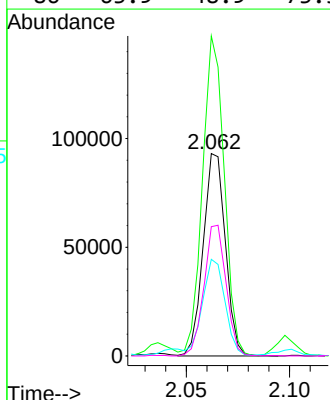
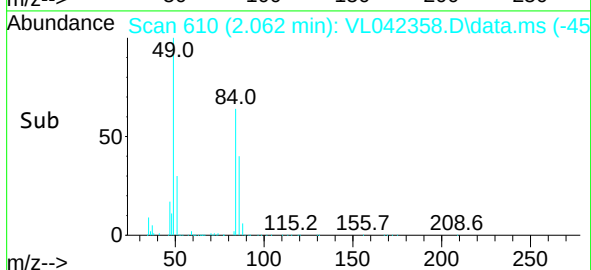
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

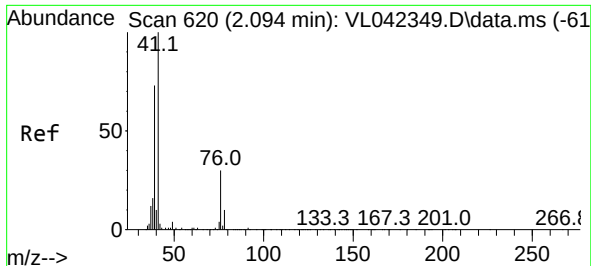


#20
Methylene Chloride
Concen: 8.865 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39



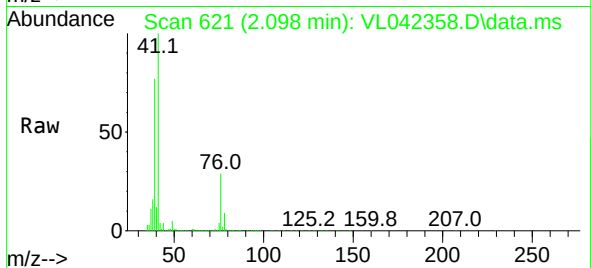
Tgt Ion: 84 Resp: 69548
Ion Ratio Lower Upper
84 100
49 156.3 111.6 167.4
51 45.9 35.1 52.7
86 63.9 48.9 73.3





#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

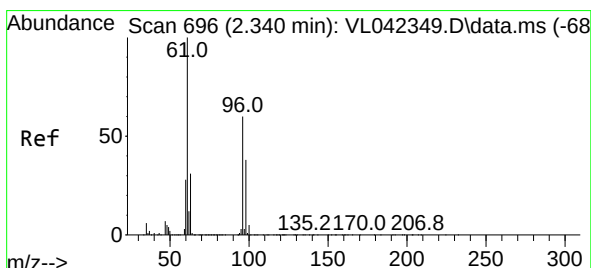
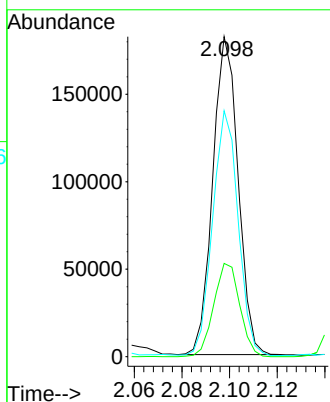
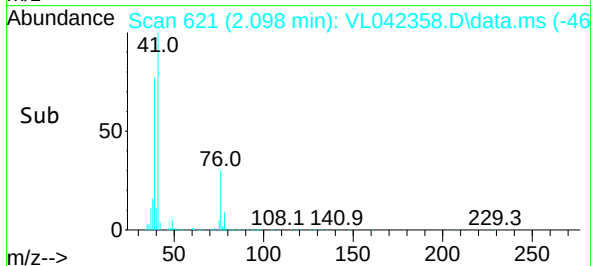
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0417ABS01



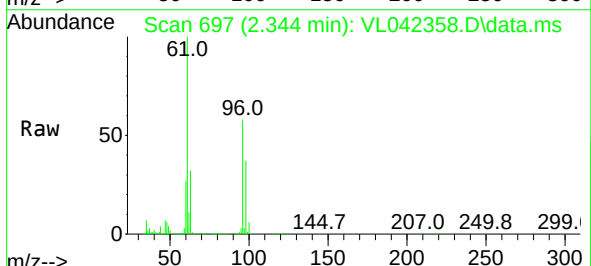
Tgt Ion: 41 Resp: 13422
 Ion Ratio Lower Upper
 41 100
 76 30.1 24.8 37.2
 39 76.8 60.6 90.8

Manual Integrations
 APPROVED

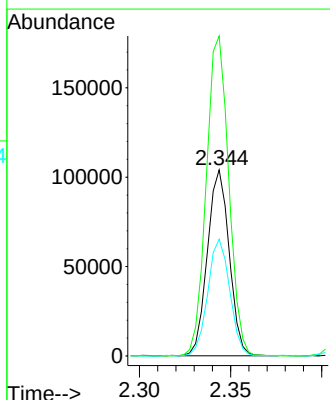
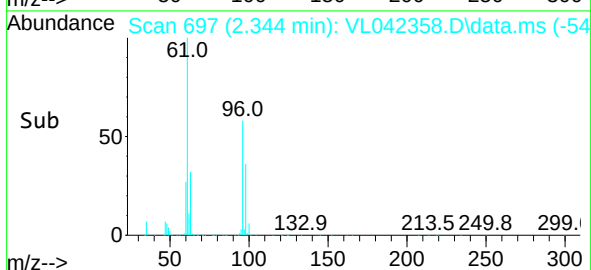
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025

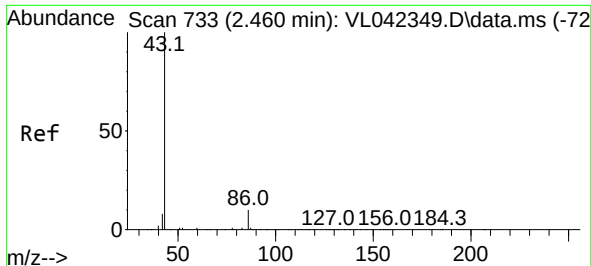


#22
 trans-1,2-Dichloroethene
 Concen: 9.653 ppbv
 RT: 2.344 min Scan# 697
 Delta R.T. 0.003 min
 Lab File: VL042358.D
 Acq: 17 Apr 2025 15:39



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





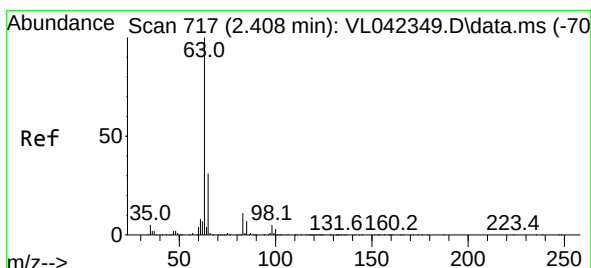
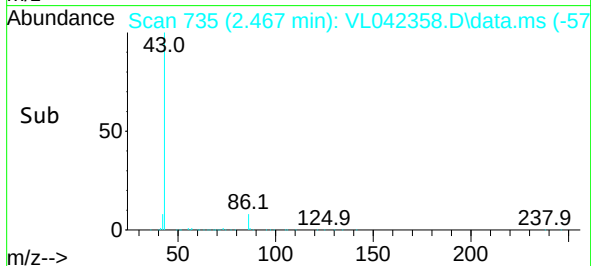
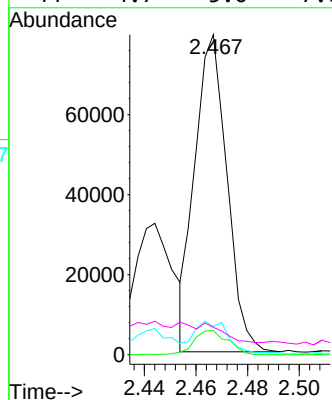
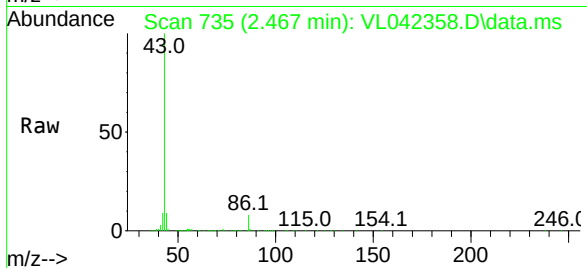
#23
 Vinyl Acetate
 Concen: 8.427 ppbv
 RT: 2.467 min Scan# 718
 Delta R.T. 0.007 min
 Lab File: VL042358.D
 Acq: 17 Apr 2025 15:39

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#

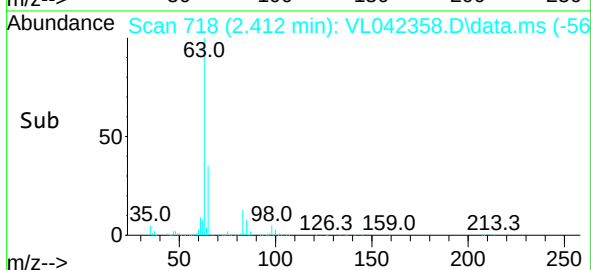
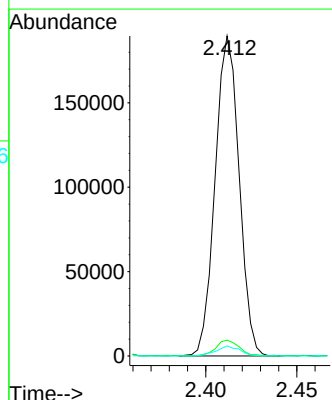
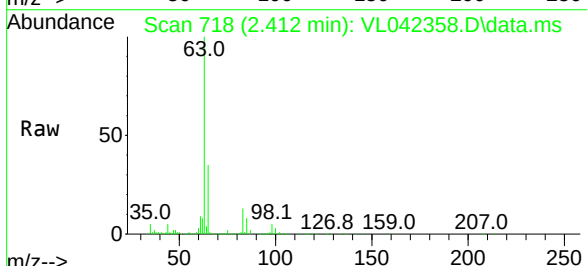
Manual Integrations
 APPROVED

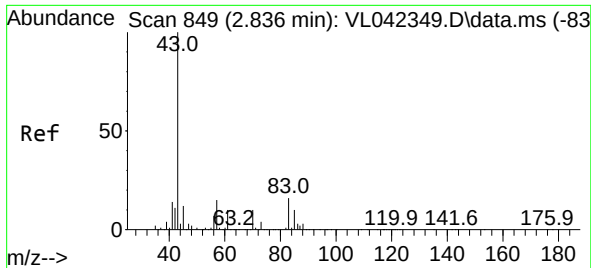
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#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

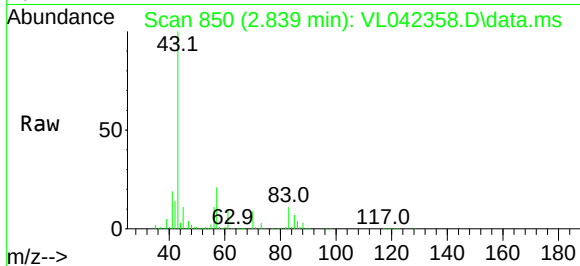
Tgt Ion: 63 Resp: 173238
 Ion Ratio Lower Upper
 63 100
 98 4.9 2.3 6.8
 100 3.1 1.6 4.8





#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

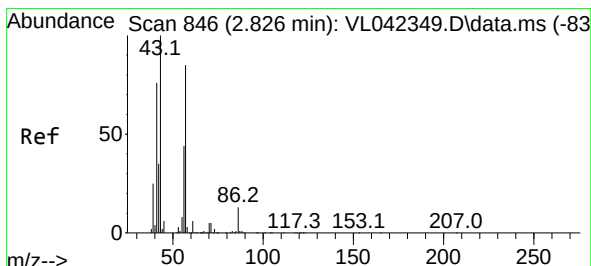
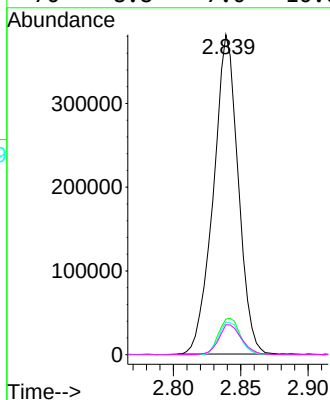
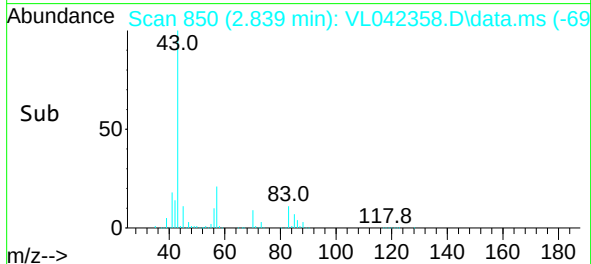
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01



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

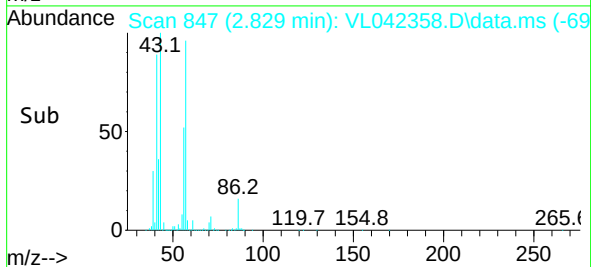
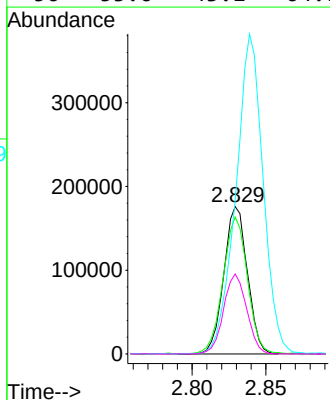
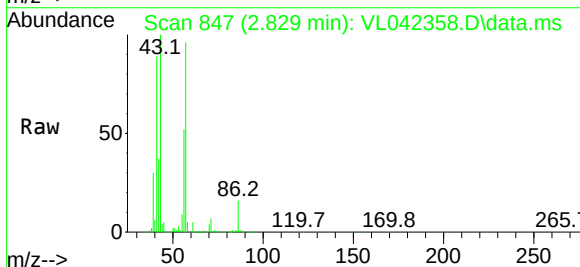
Manual Integrations
APPROVED

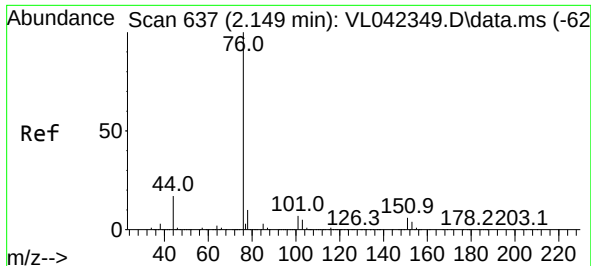
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

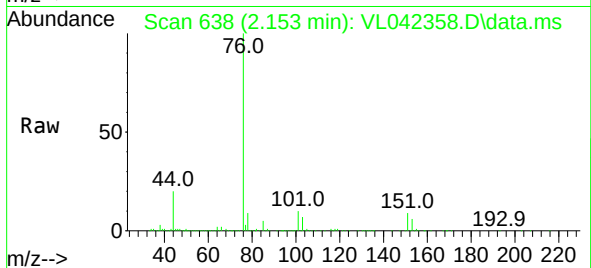
Tgt Ion: 57 Resp: 195124
Ion Ratio Lower Upper
57 100
41 96.9 77.9 116.9
43 251.9 208.4 312.6
56 53.6 43.1 64.7





#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

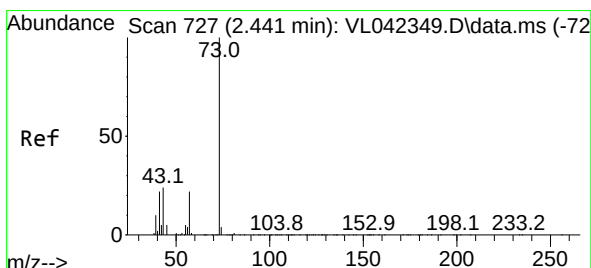
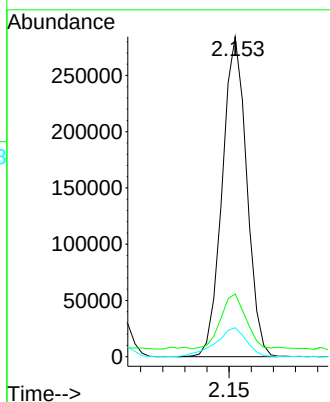
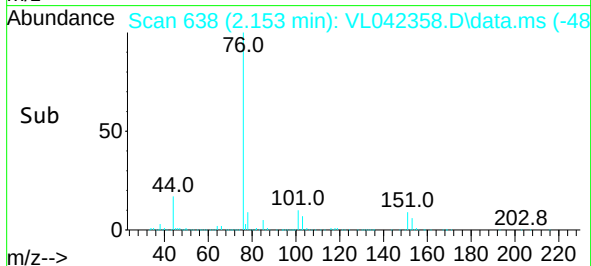
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01



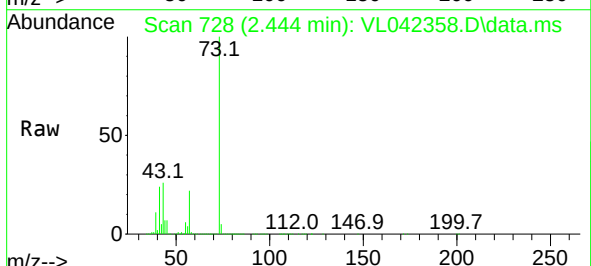
Tgt Ion: 76 Resp: 21834
Ion Ratio Lower Upper
76 100
44 21.6 15.5 23.3
78 11.4 9.3 13.9

Manual Integrations
APPROVED

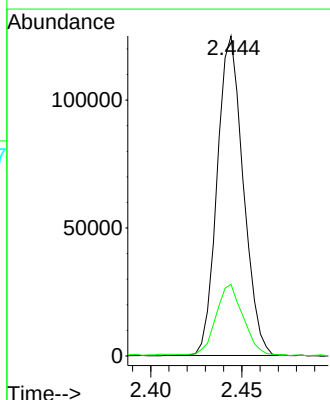
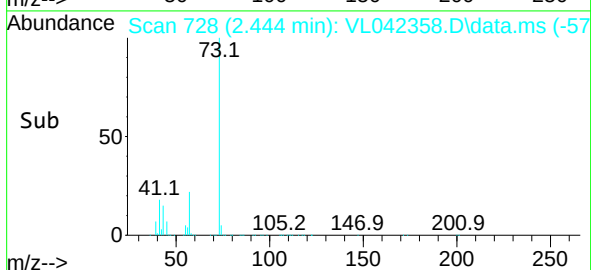
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

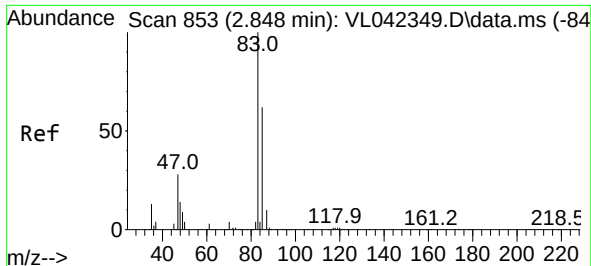


#28
Methyl tert-Butyl Ether
Concen: 9.510 ppbv
RT: 2.444 min Scan# 728
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39



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

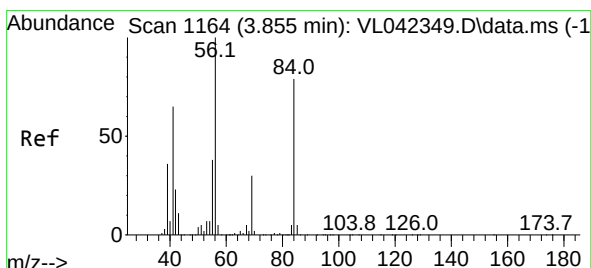
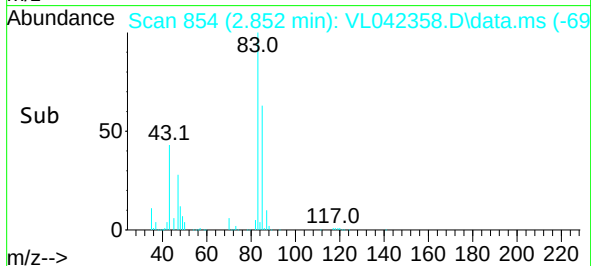
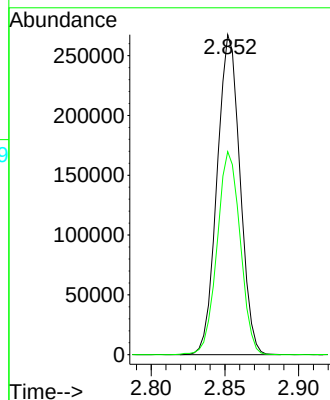
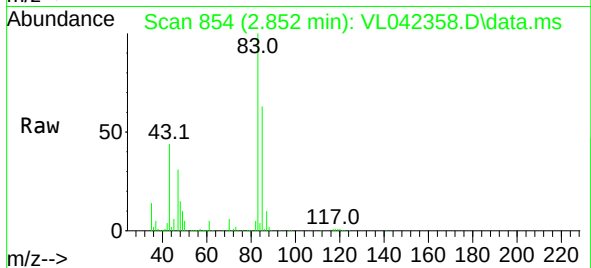
85 63.4 50.0 75.0

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

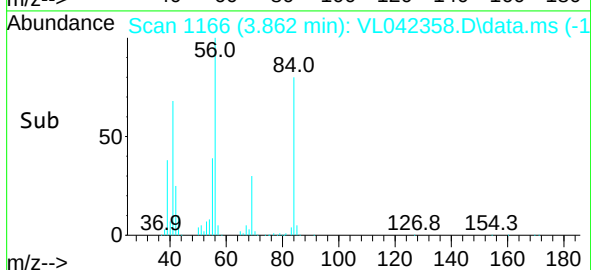
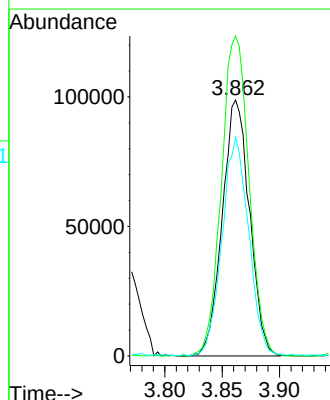
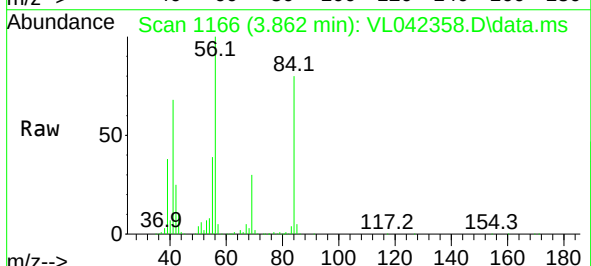
Tgt Ion: 84 Resp: 163017

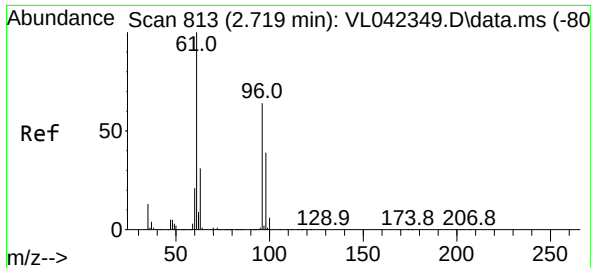
Ion Ratio Lower Upper

84 100

56 126.7 101.0 151.4

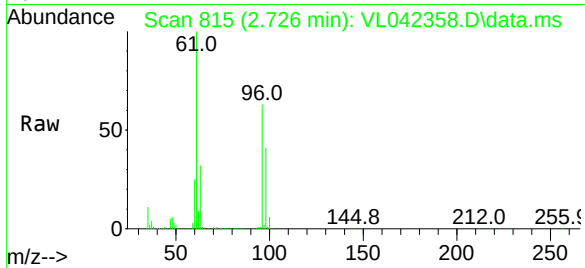
41 83.8 67.4 101.0





#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

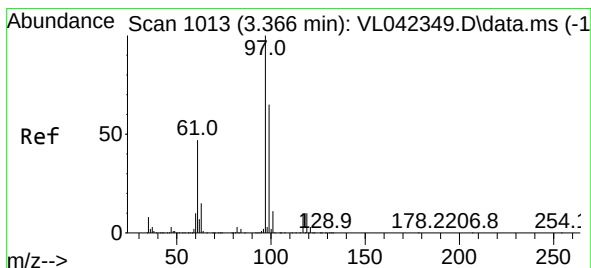
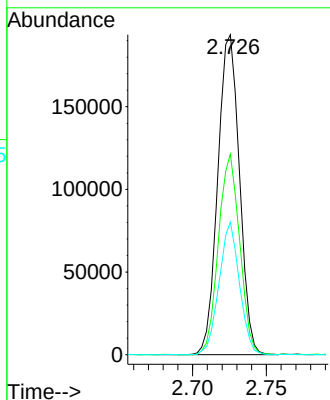
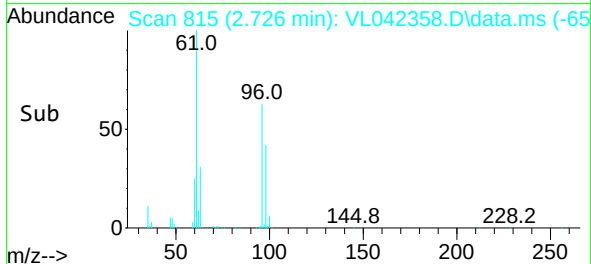
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01



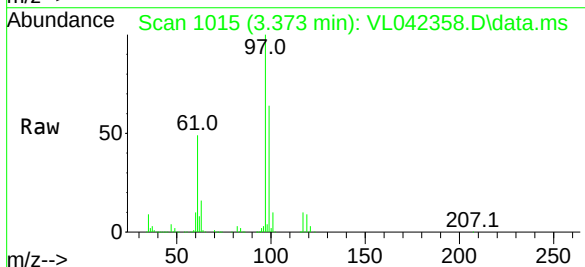
Tgt Ion: 61 Resp: 198108
Ion Ratio Lower Upper
61 100
96 62.8 50.8 76.2
98 41.4 30.9 46.3

Manual Integrations
APPROVED

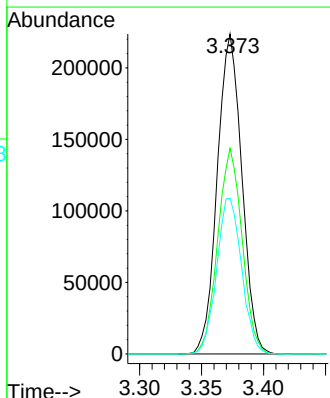
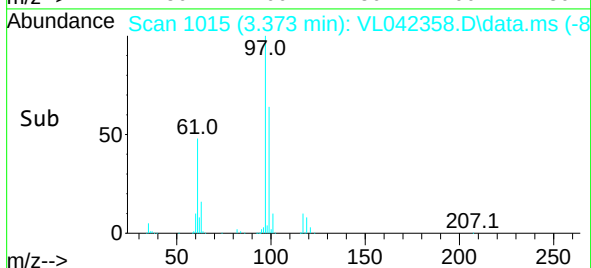
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

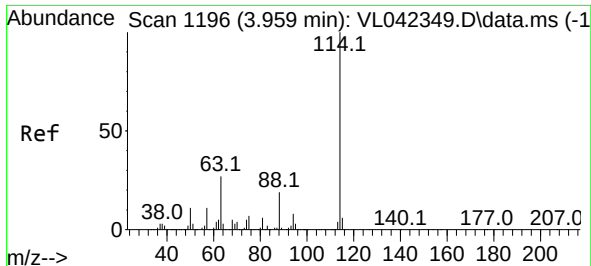


#32
1,1,1-Trichloroethane
Concen: 9.729 ppbv
RT: 3.373 min Scan# 1015
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39



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 :

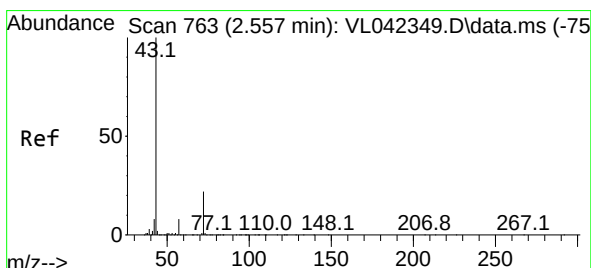
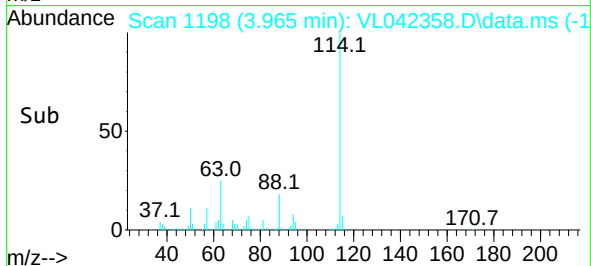
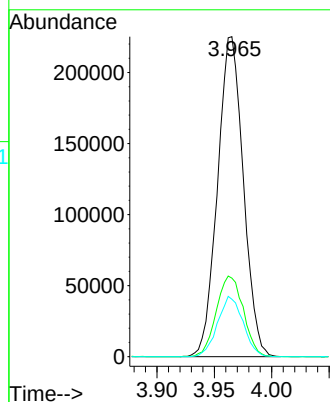
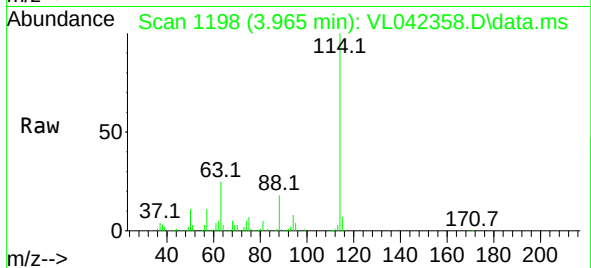
VL0417ABS01

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

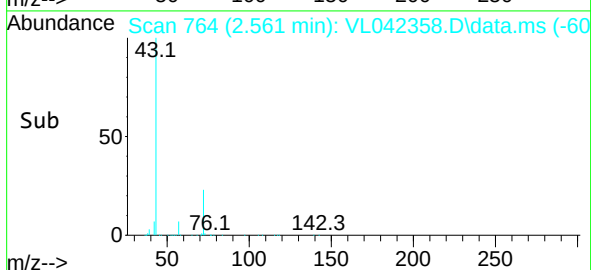
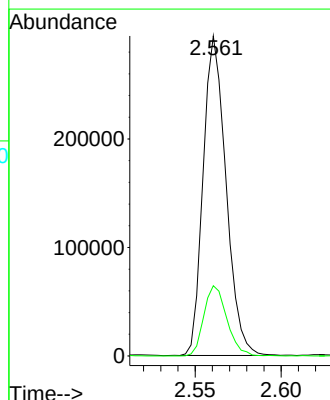
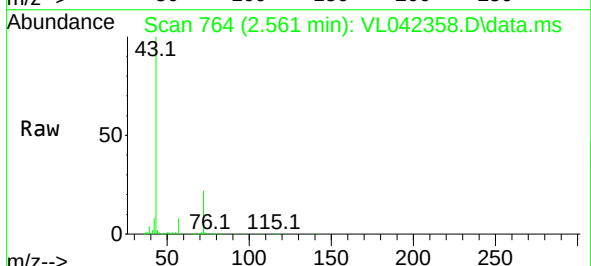
RT: 2.561 min Scan# 764

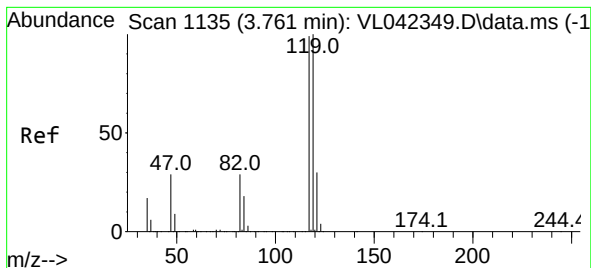
Delta R.T. 0.003 min

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

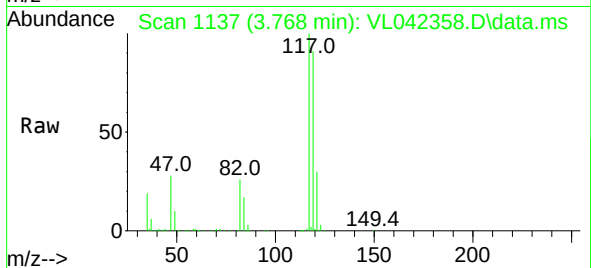
Acq: 17 Apr 2025 15:39

Instrument :

MSVOA_L

ClientSampleId :

VL0417ABS01



Tgt Ion: 117 Resp: 305249

Ion Ratio Lower Upper

117 100

119 91.0 80.5 120.7

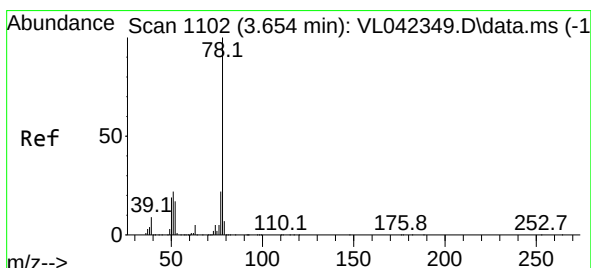
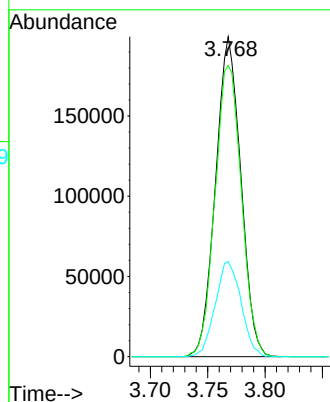
121 29.8 24.2 36.2

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

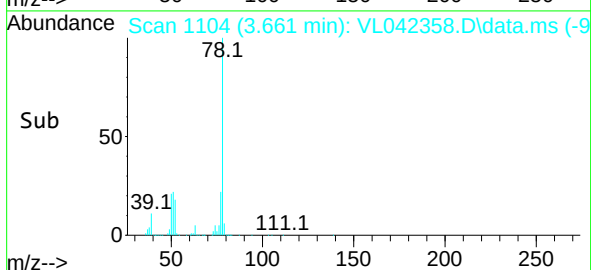
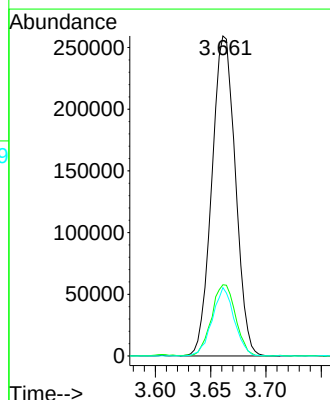
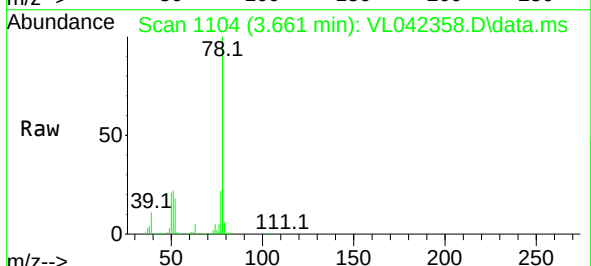
Tgt Ion: 78 Resp: 383239

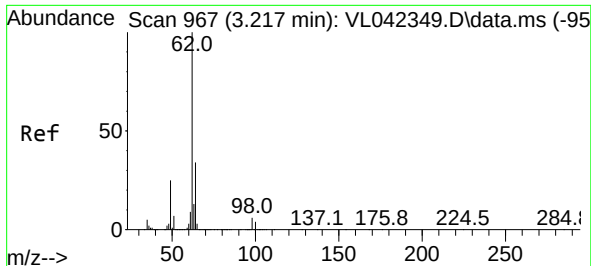
Ion Ratio Lower Upper

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

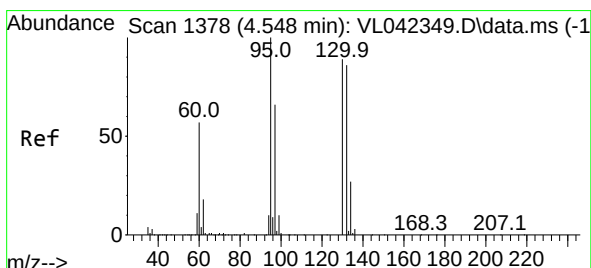
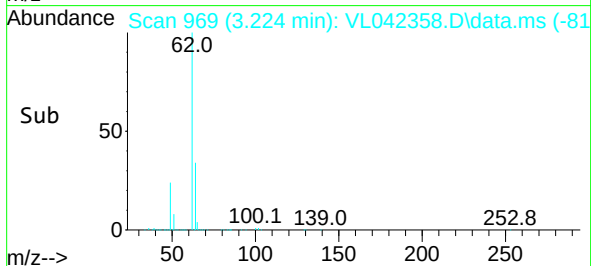
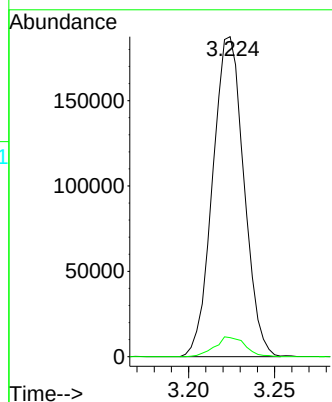
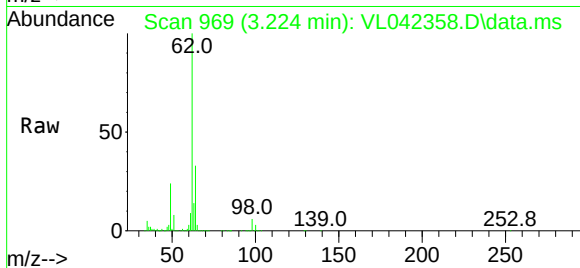
98 6.0 5.1 7.7

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

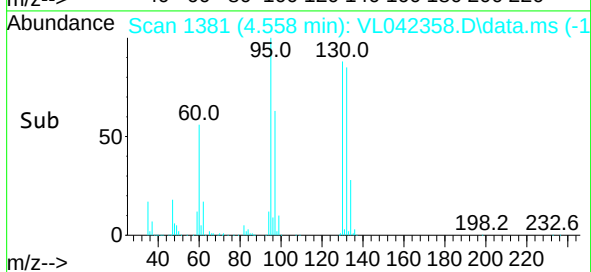
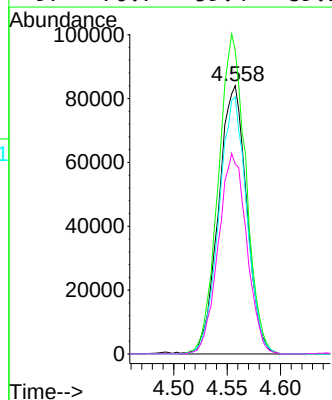
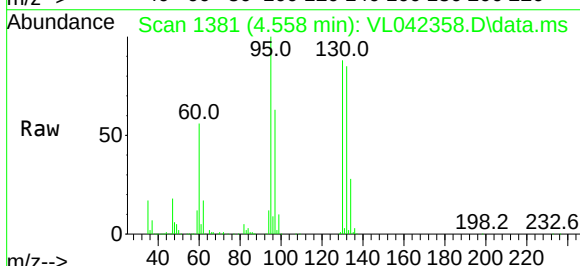
Ion Ratio Lower Upper

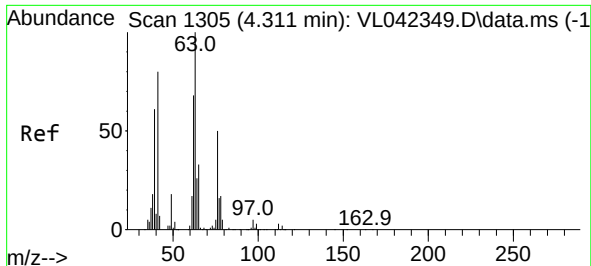
130 100

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

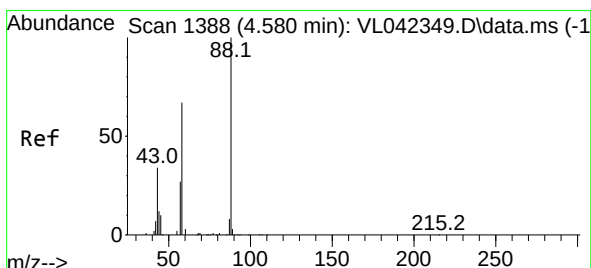
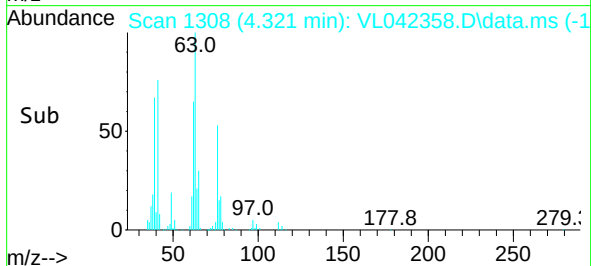
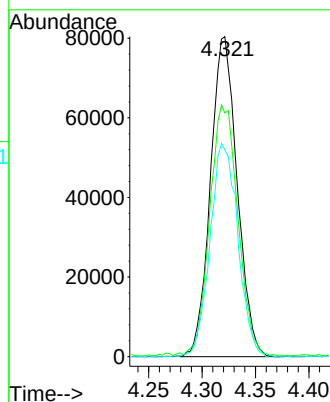
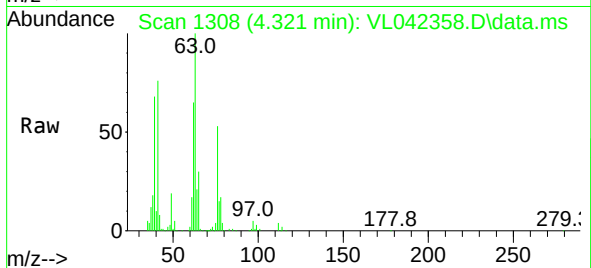
62 64.6 54.3 81.5

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

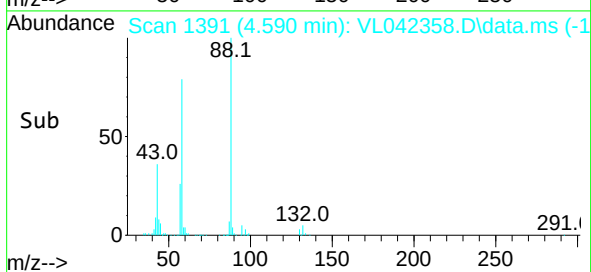
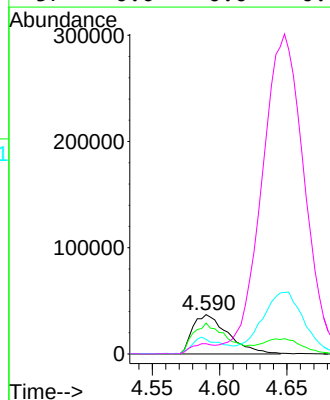
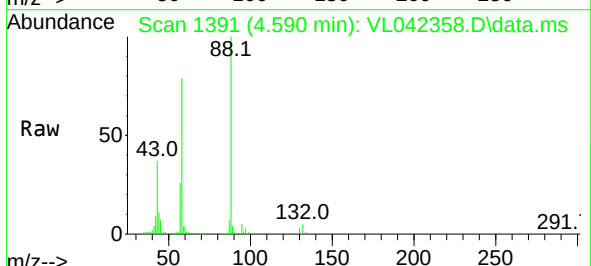
Ion Ratio Lower Upper

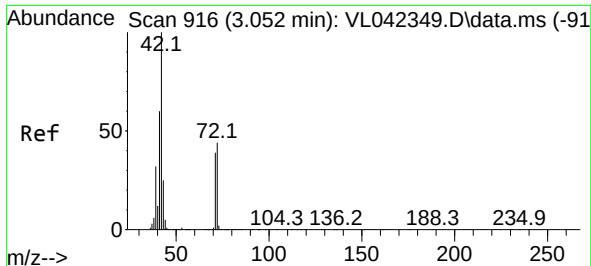
88 100

58 75.4 61.4 92.0

43 37.1 23.2 34.8

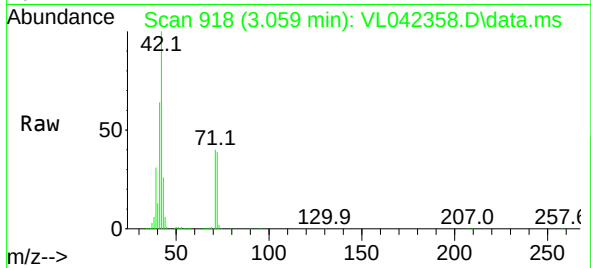
57 0.0 0.0 0.0





#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

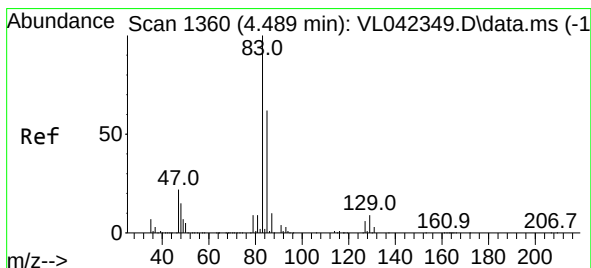
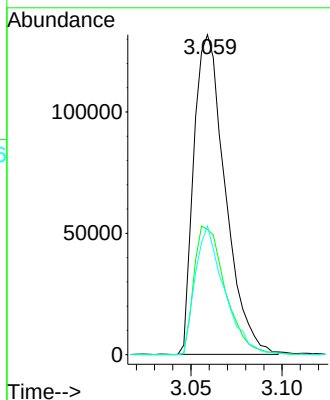
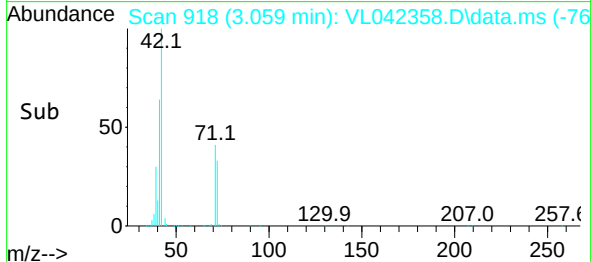
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01



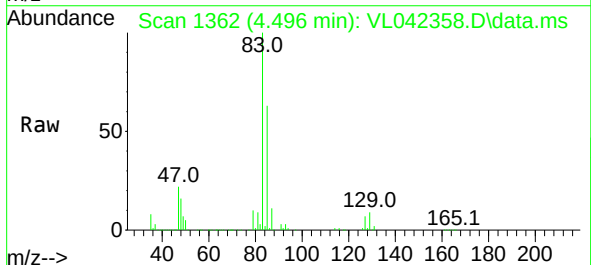
Tgt Ion: 42 Resp: 15777
Ion Ratio Lower Upper
42 100
72 40.3 32.3 48.5
71 37.7 31.4 47.2

Manual Integrations
APPROVED

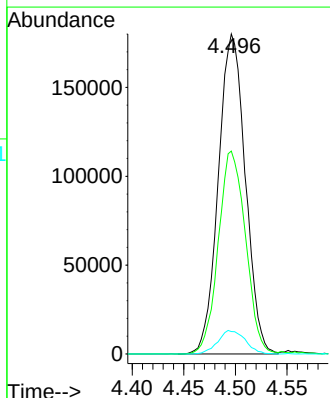
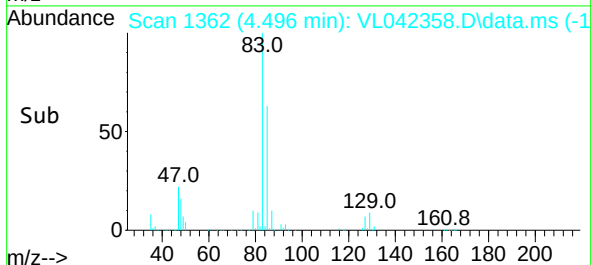
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

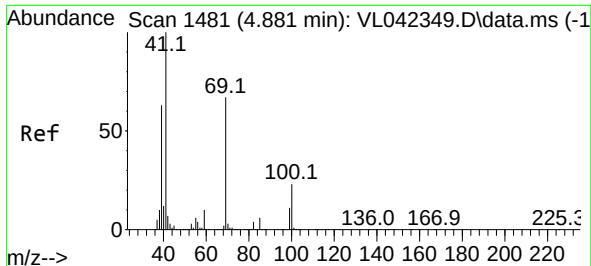


#42
Bromodichloromethane
Concen: 10.326 ppbv
RT: 4.496 min Scan# 1362
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39



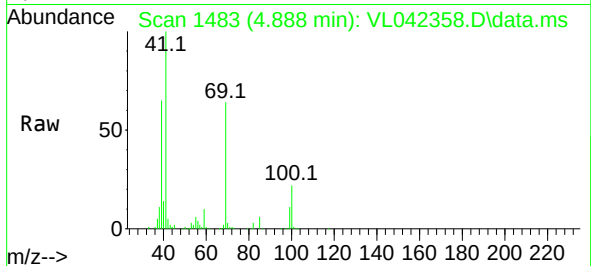
Tgt Ion: 83 Resp: 327652
Ion Ratio Lower Upper
83 100
85 63.3 49.7 74.5
127 7.0 5.1 7.7





#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

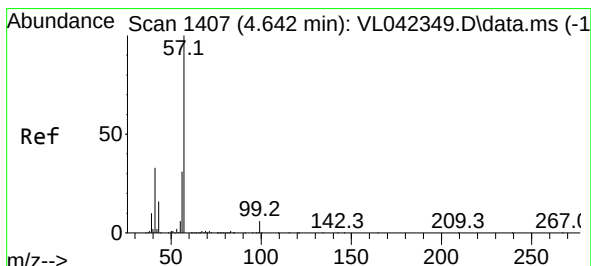
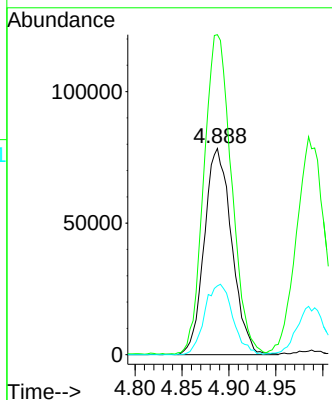
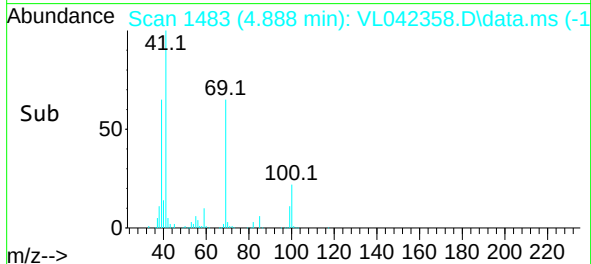
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01



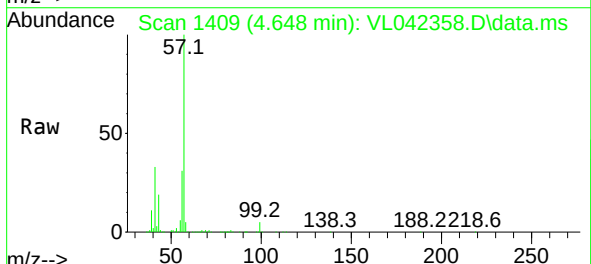
Tgt Ion: 69 Resp: 159292
Ion Ratio Lower Upper
69 100
41 155.9 118.6 177.8
100 35.1 28.2 42.2

Manual Integrations
APPROVED

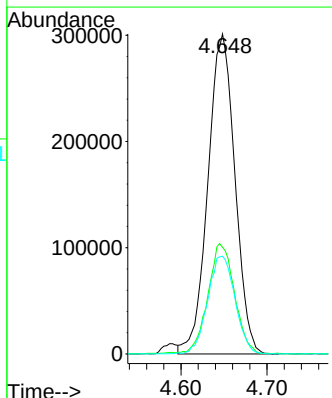
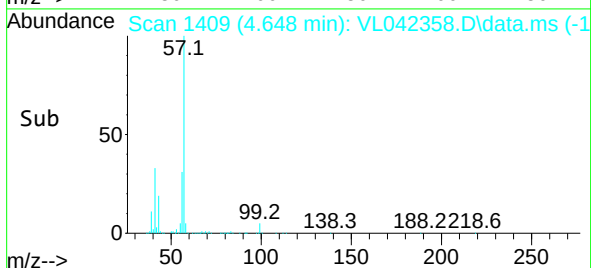
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

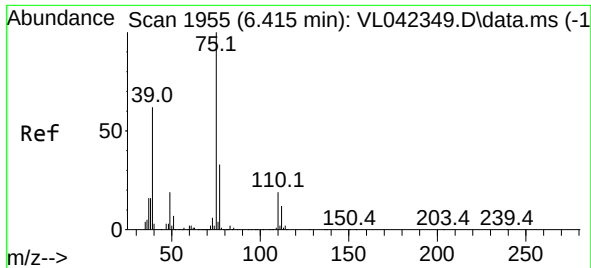


#44
2,2,4-Trimethylpentane
Concen: 10.019 ppbv
RT: 4.648 min Scan# 1409
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39



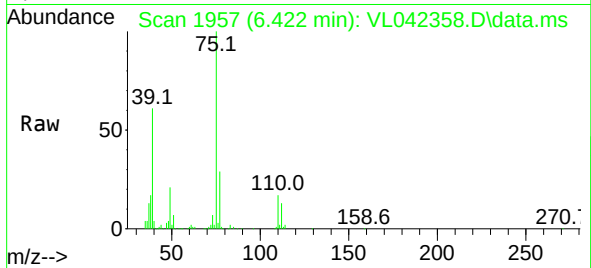
Tgt Ion: 57 Resp: 657377
Ion Ratio Lower Upper
57 100
41 34.2 27.2 40.8
56 31.1 25.7 38.5





#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

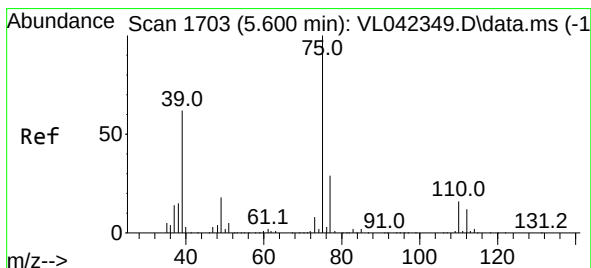
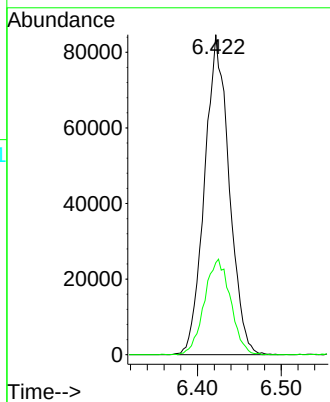
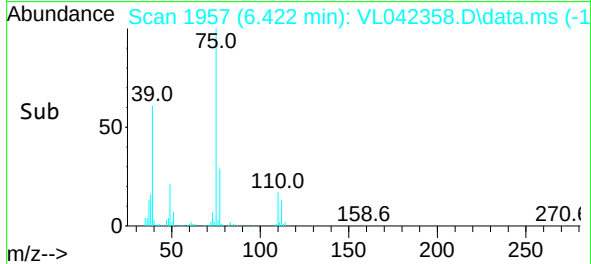
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0417ABS01



Tgt Ion: 75 Resp: 172514
 Ion Ratio Lower Upper
 75 100
 77 28.7 27.0 40.6

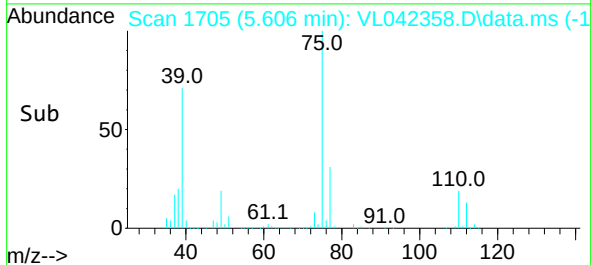
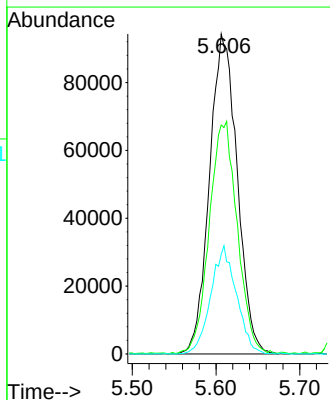
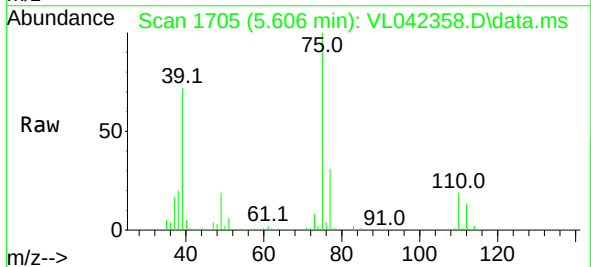
Manual Integrations
 APPROVED

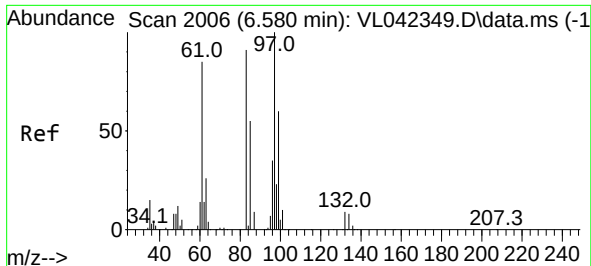
Reviewed By :Semsettin Yesilyurt 04/18/2025
 Supervised By :Mahesh Dadoda 04/18/2025



#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

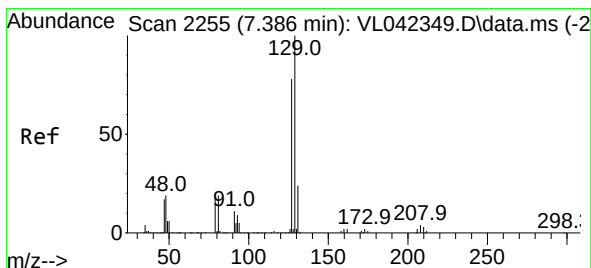
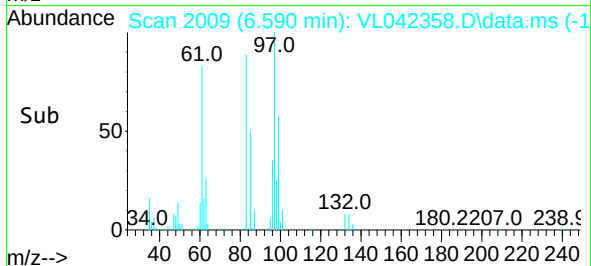
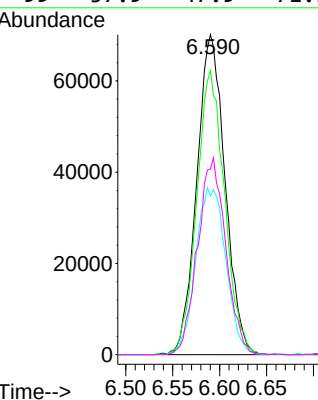
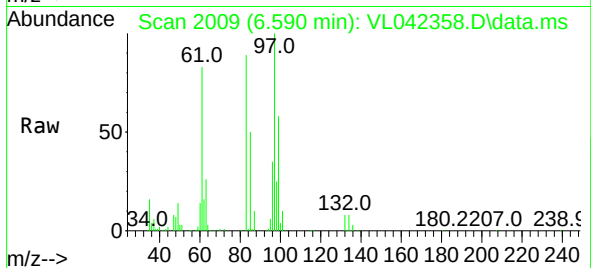
99 57.9 47.9 71.9

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

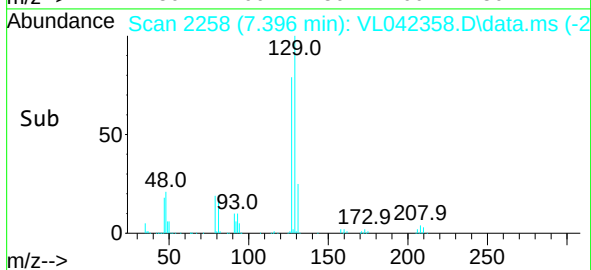
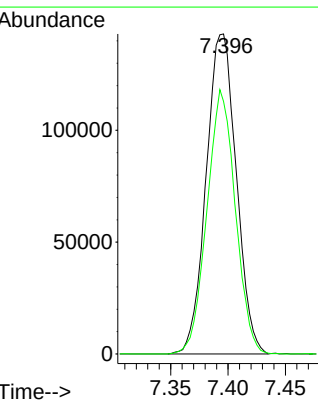
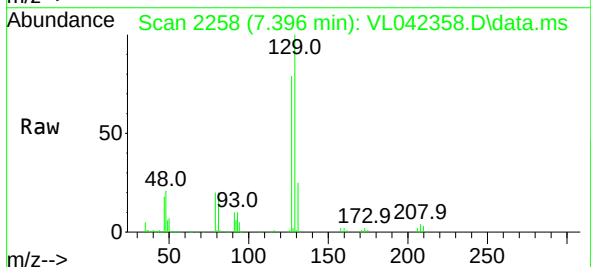
Acq: 17 Apr 2025 15:39

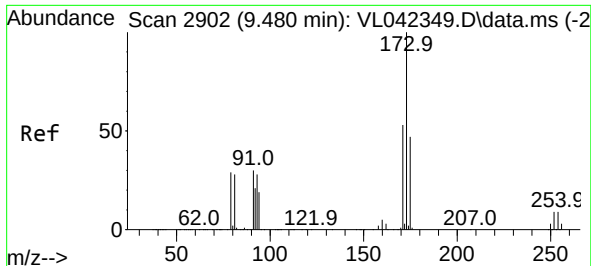
Tgt Ion:129 Resp: 261470

Ion Ratio Lower Upper

129 100

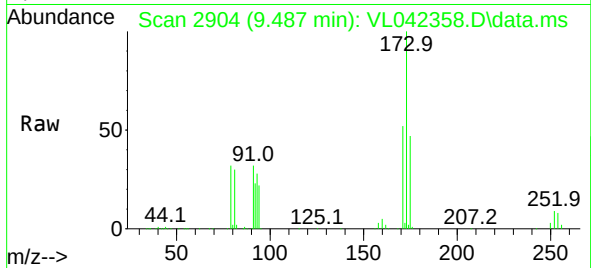
127 77.9 39.1 117.3





#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

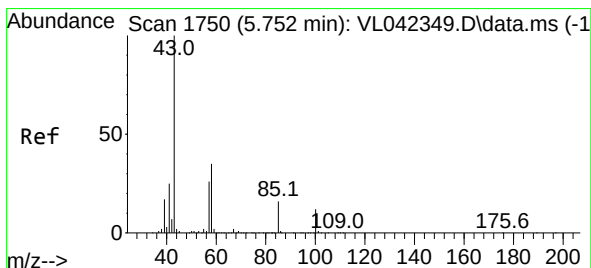
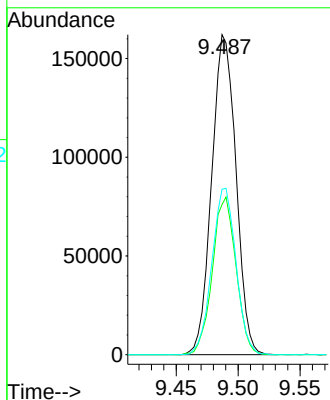
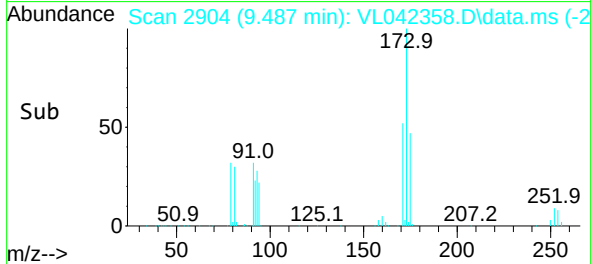
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01



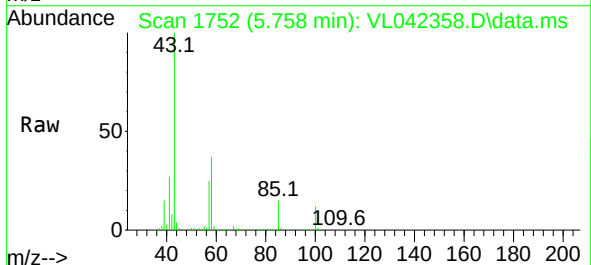
Tgt Ion: 173 Resp: 221372
Ion Ratio Lower Upper
173 100
175 48.0 38.2 57.2
171 51.7 40.9 61.3

Manual Integrations
APPROVED

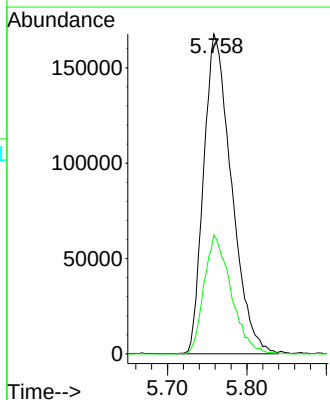
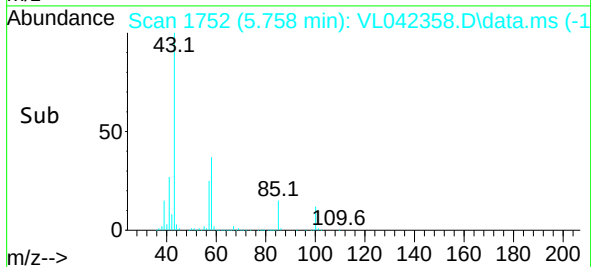
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

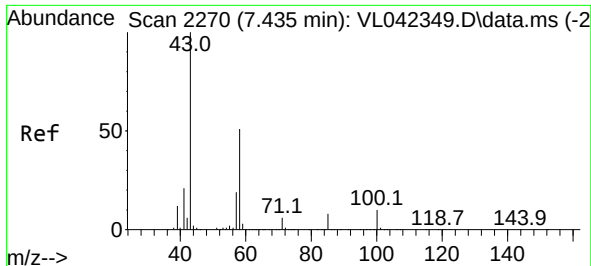


#50
4-Methyl-2-Pentanone
Concen: 8.810 ppbv
RT: 5.758 min Scan# 1752
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39



Tgt Ion: 43 Resp: 407804
Ion Ratio Lower Upper
43 100
58 36.2 28.6 43.0





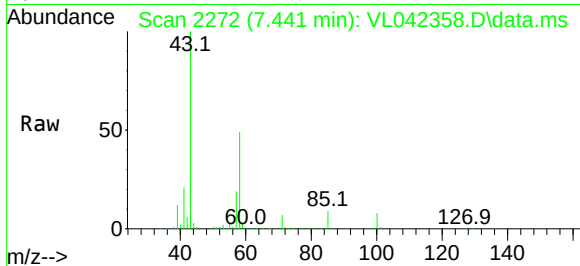
#51
2-Hexanone
Concen: 8.013 ppbv
RT: 7.441 min Scan# 21
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Instrument :

MSVOA_L

ClientSampleId :

VL0417ABS01

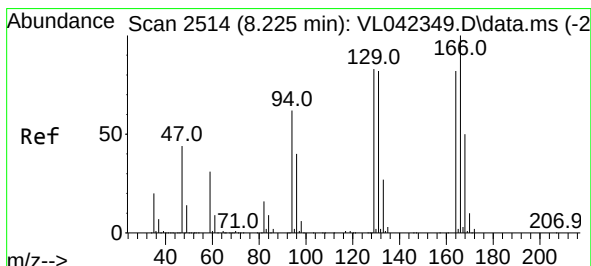
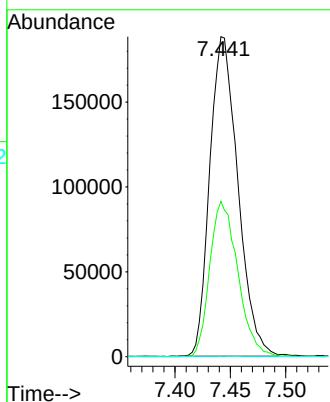
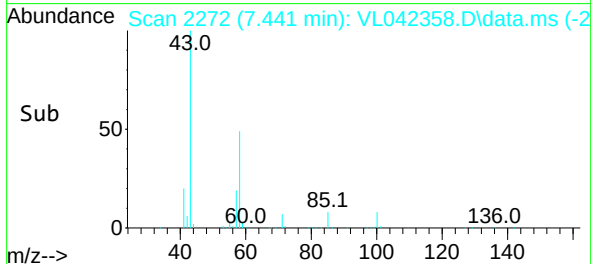


Tgt Ion: 43 Resp: 332640
Ion Ratio Lower Upper
43 100
58 48.6 40.2 60.4
98 0.1 0.1 0.1

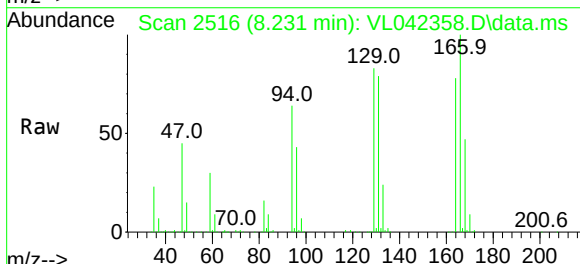
Manual Integrations

APPROVED

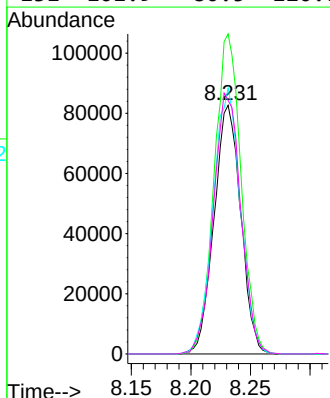
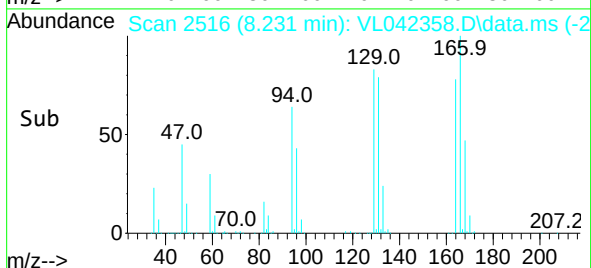
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

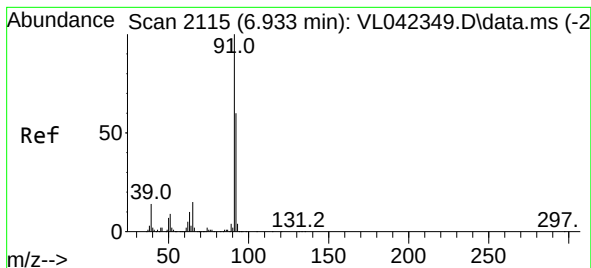


#52
Tetrachloroethene
Concen: 8.763 ppbv
RT: 8.231 min Scan# 2516
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39



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

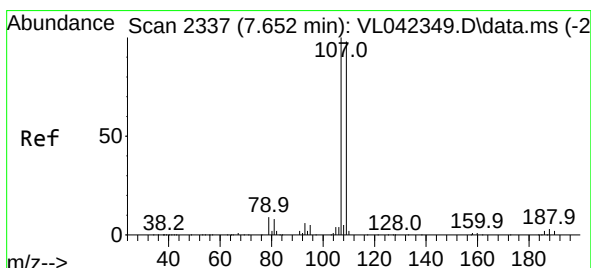
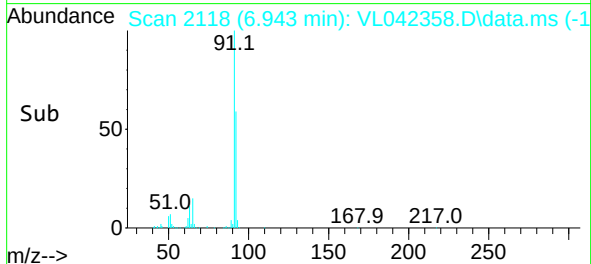
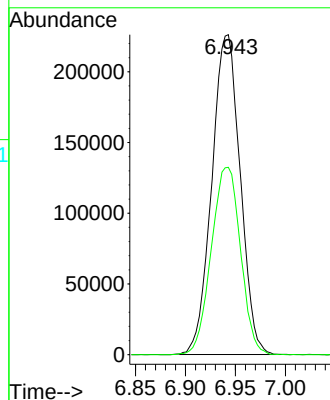
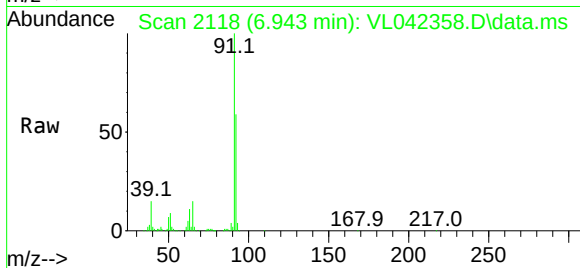
92 60.3 48.2 72.4

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

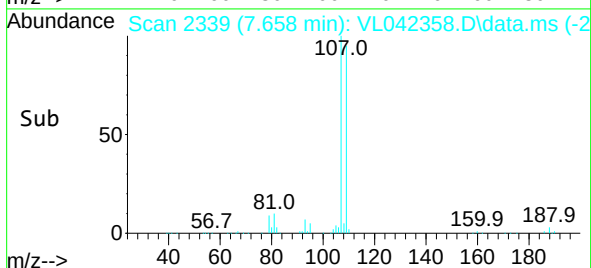
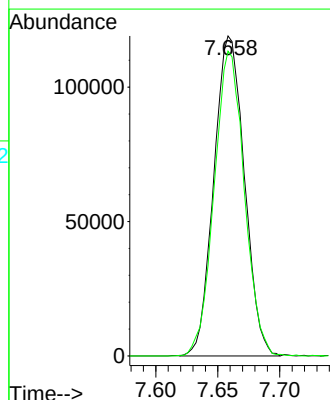
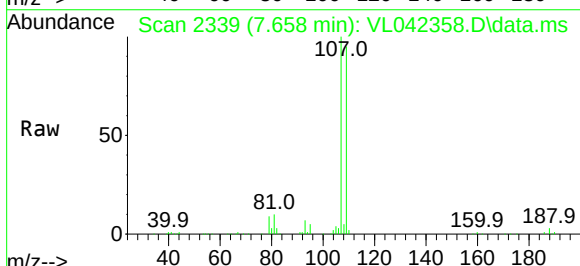
Acq: 17 Apr 2025 15:39

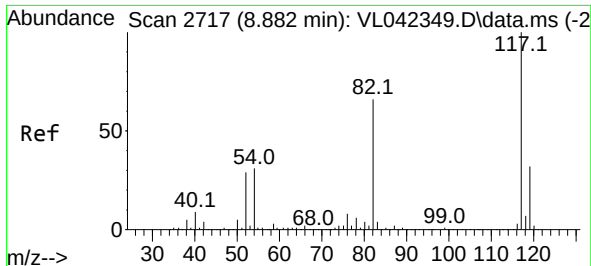
Tgt Ion:107 Resp: 204328

Ion Ratio Lower Upper

107 100

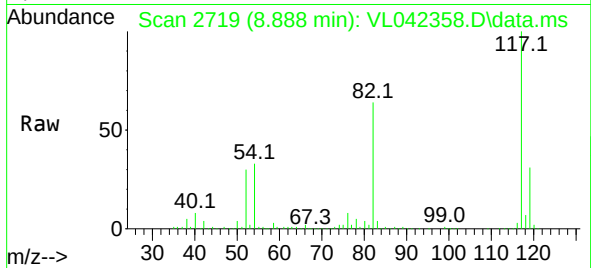
109 95.1 78.2 117.4





#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

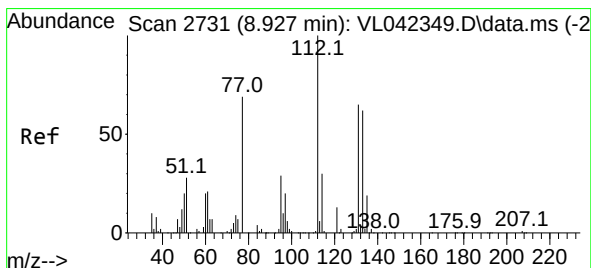
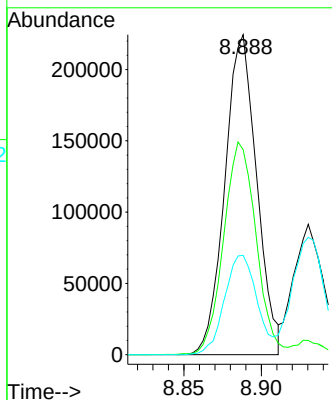
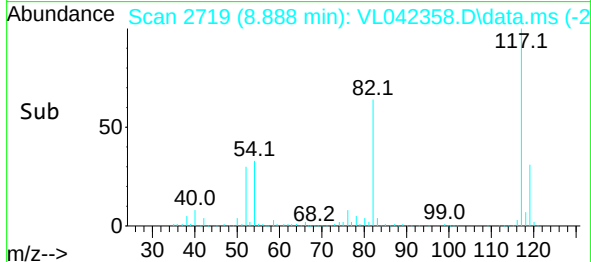
Instrument :
MSVOA_1
ClientSampleId :
VL0417ABS01



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

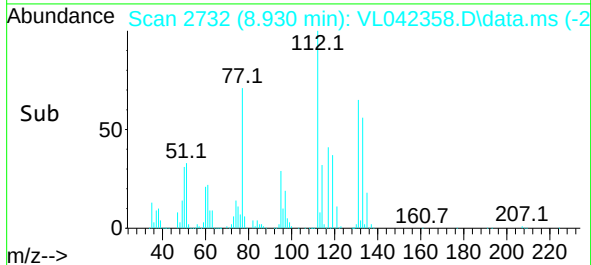
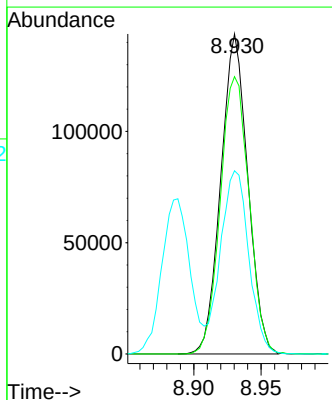
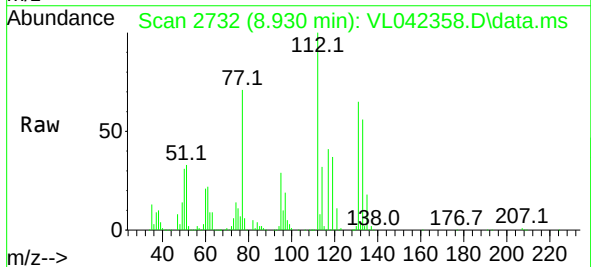
Manual Integrations
APPROVED

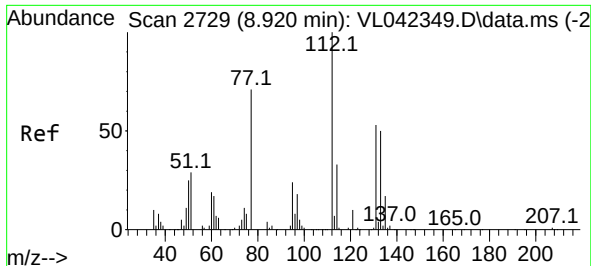
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

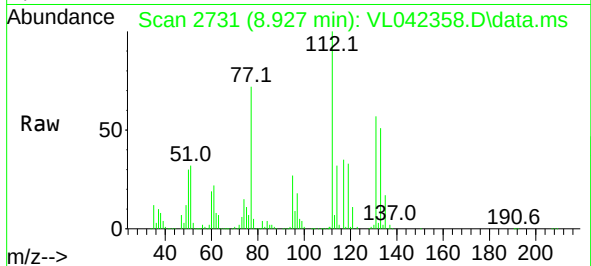
Tgt Ion:131 Resp: 199945
Ion Ratio Lower Upper
131 100
133 92.5 78.3 117.5
119 60.2 48.7 73.1





#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

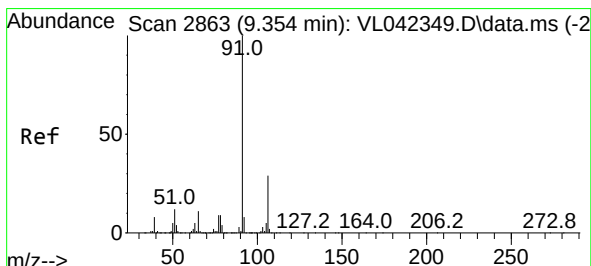
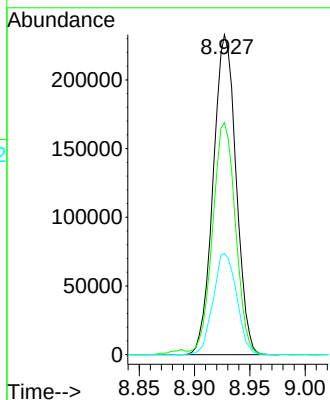
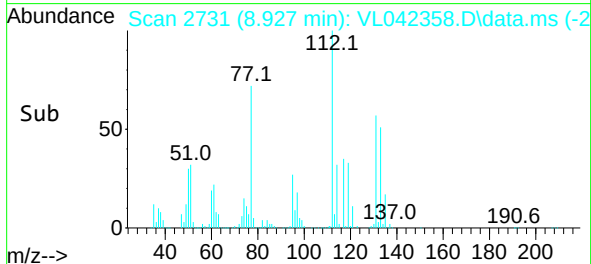
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01



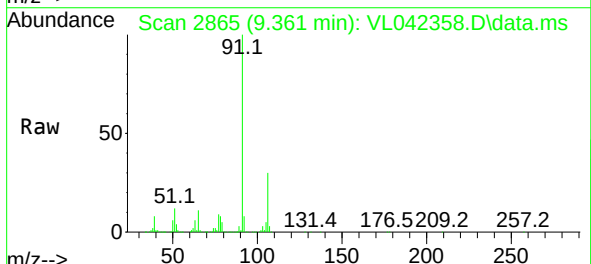
Tgt Ion: 112 Resp: 33514
Ion Ratio Lower Upper
112 100
77 72.4 57.8 86.6
114 31.7 29.3 35.9

Manual Integrations
APPROVED

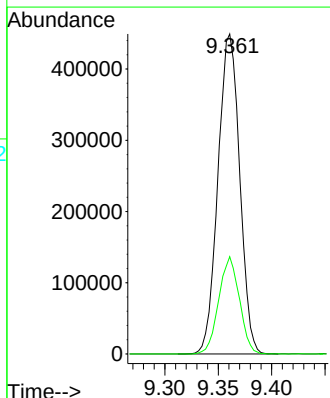
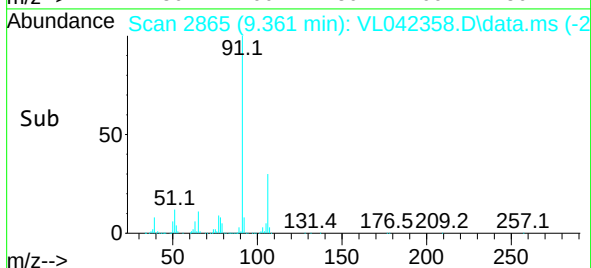
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

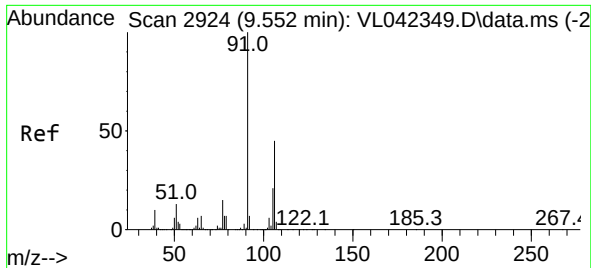


#58
Ethyl Benzene
Concen: 9.975 ppbv
RT: 9.361 min Scan# 2865
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39



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

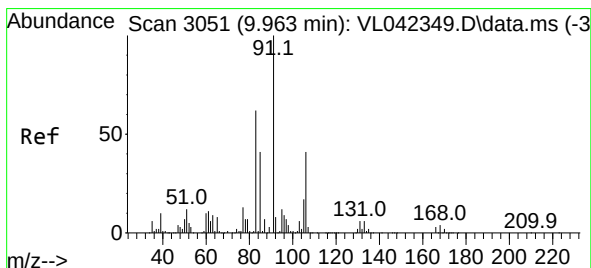
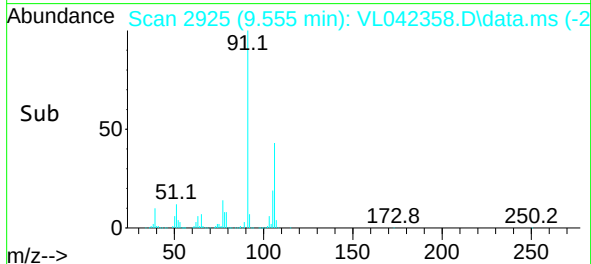
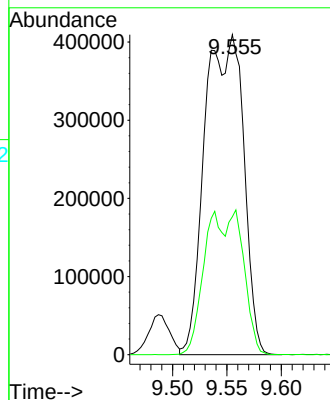
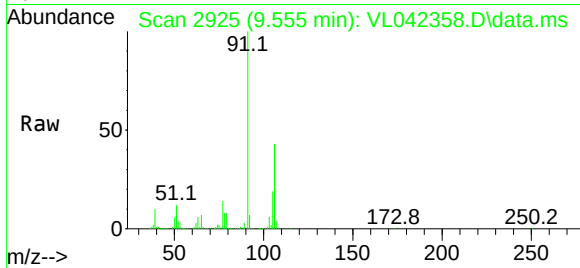
106 44.3 35.4 53.2

Manual Integrations

APPROVED

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

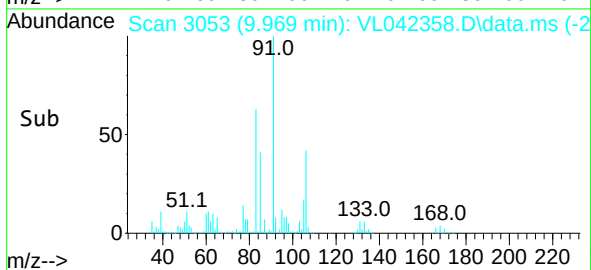
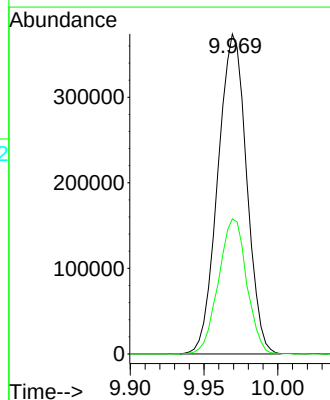
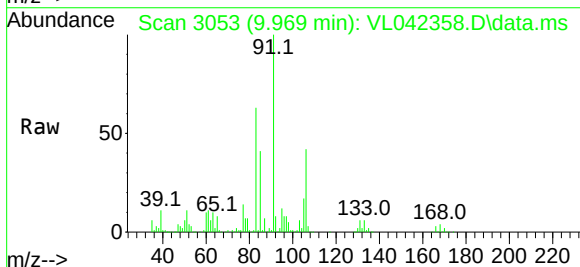
Acq: 17 Apr 2025 15:39

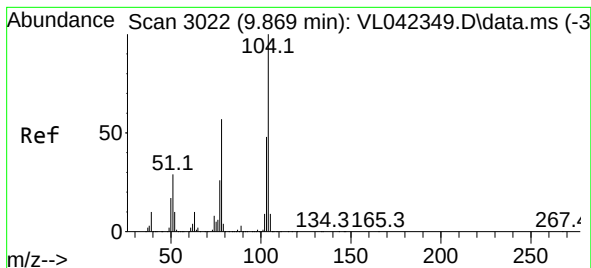
Tgt Ion: 91 Resp: 506535

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 :

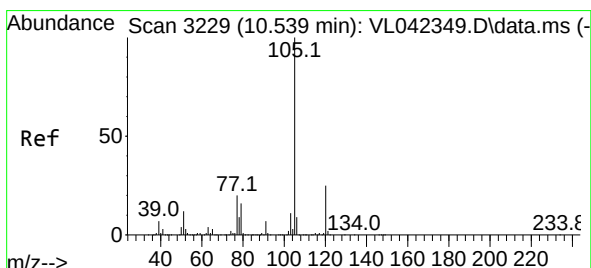
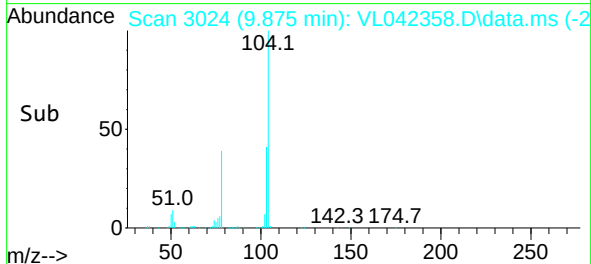
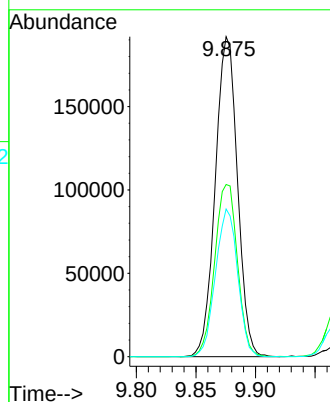
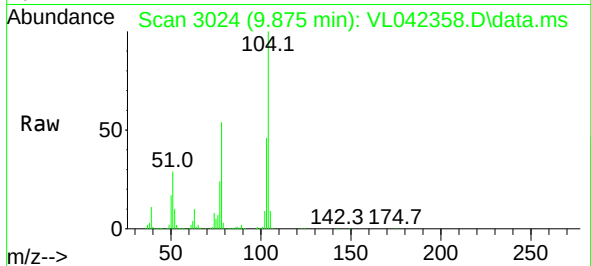
VL0417ABS01

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

APPROVED

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



#62

Isopropylbenzene

Concen: 9.827 ppbv

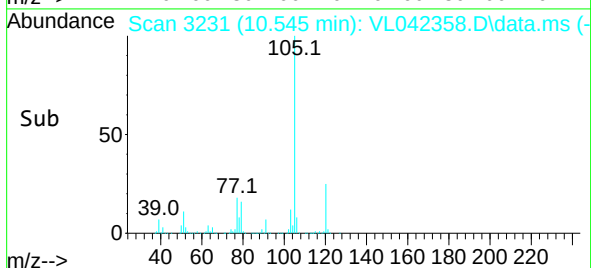
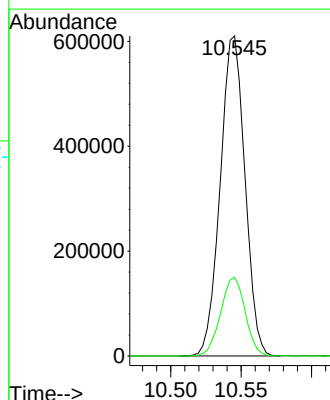
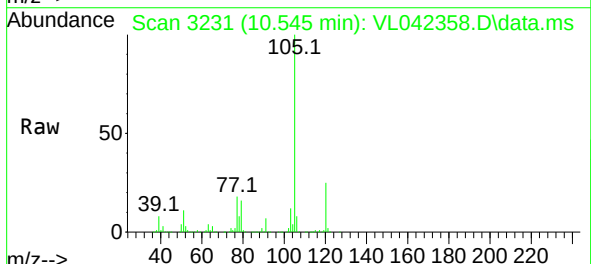
RT: 10.545 min Scan# 3231

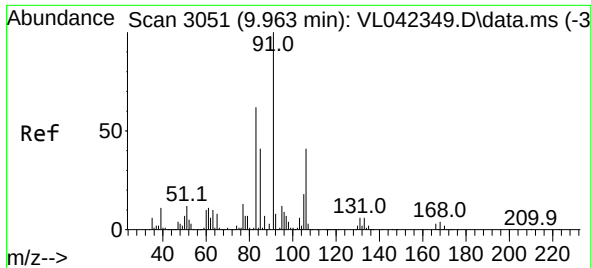
Delta R.T. 0.007 min

Lab File: VL042358.D

Acq: 17 Apr 2025 15:39

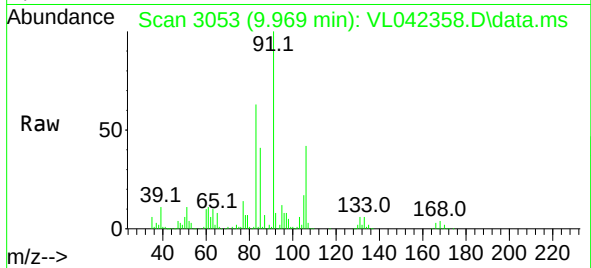
Tgt Ion:	105	Resp:	745571
Ion Ratio	Lower	Upper	
105	100		
120	24.5	19.8	29.8





#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

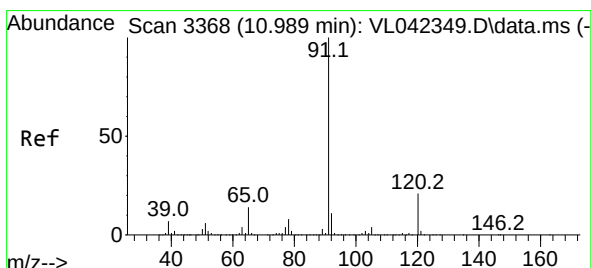
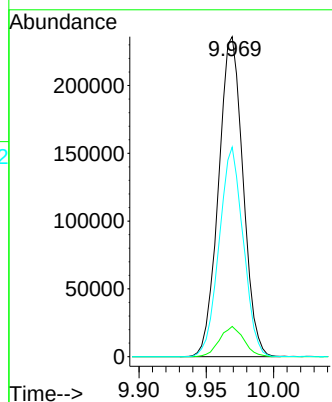
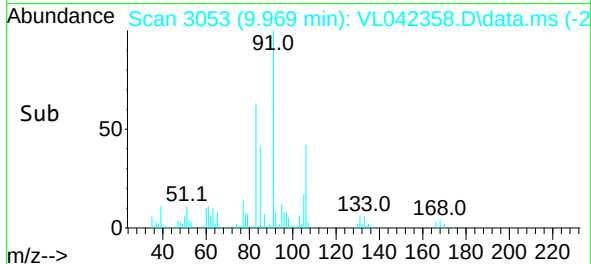
Instrument : MSVOA_L
ClientSampleId : VL0417ABS01



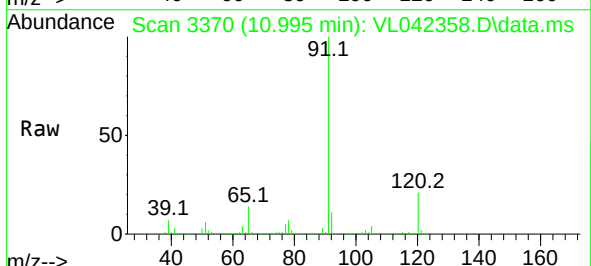
Tgt Ion: 83 Resp: 29858
Ion Ratio Lower Upper
83 100
131 9.4 4.5 13.7
85 64.5 32.4 97.0

Manual Integrations
APPROVED

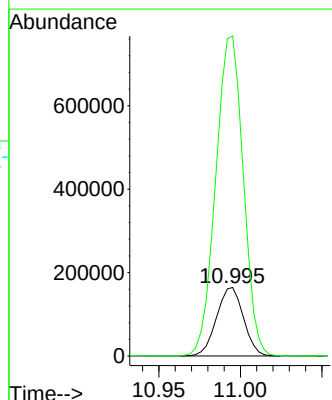
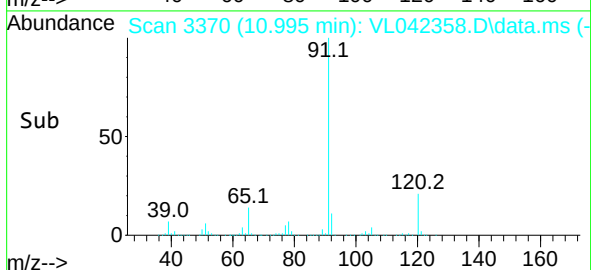
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

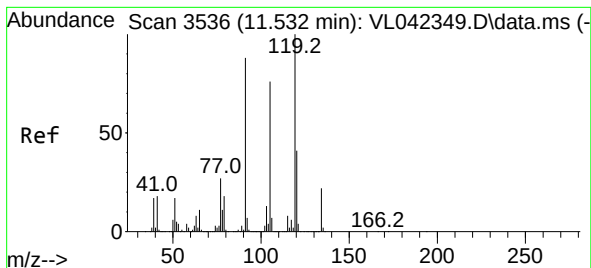


#64
n-propylbenzene
Concen: 9.875 ppbv
RT: 10.995 min Scan# 3370
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39



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

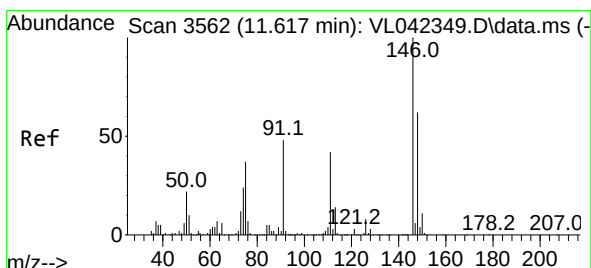
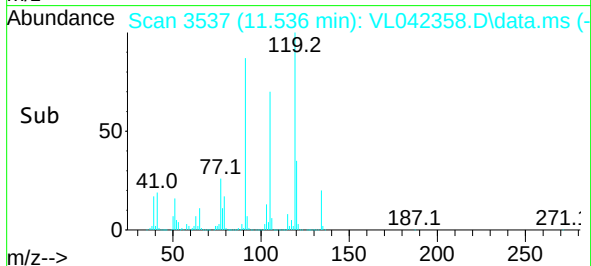
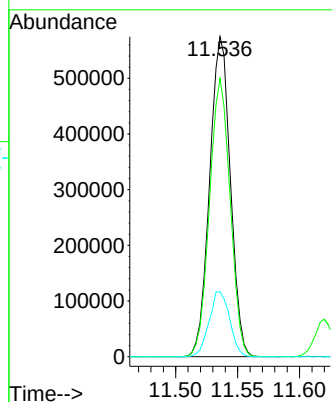
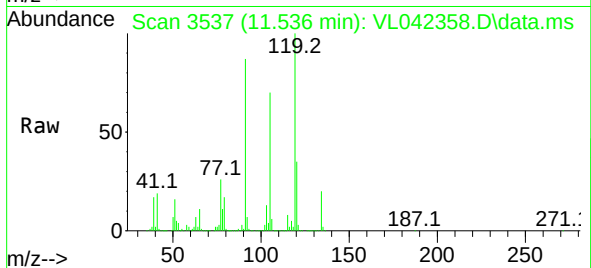
134 20.2 18.8 28.2

Manual Integrations

APPROVED

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

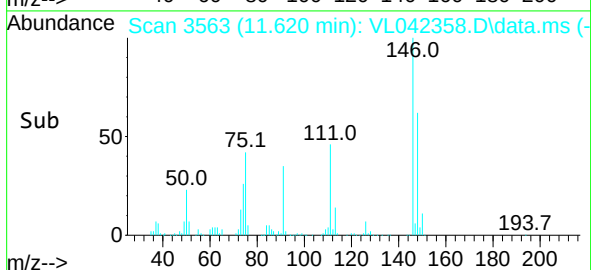
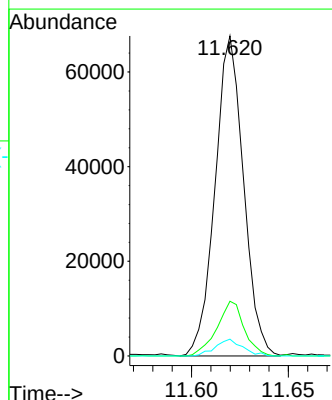
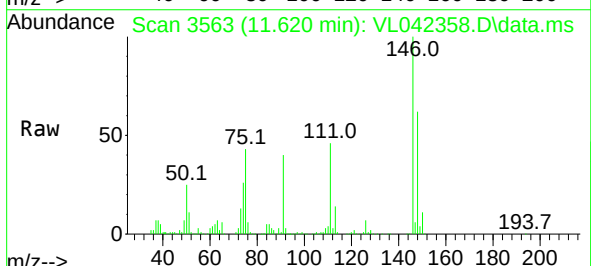
Tgt Ion: 91 Resp: 69058

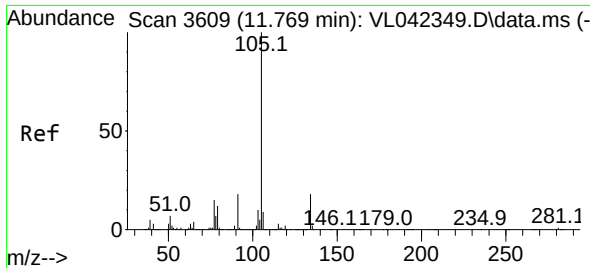
Ion Ratio Lower Upper

91 100

126 16.5 11.8 17.6

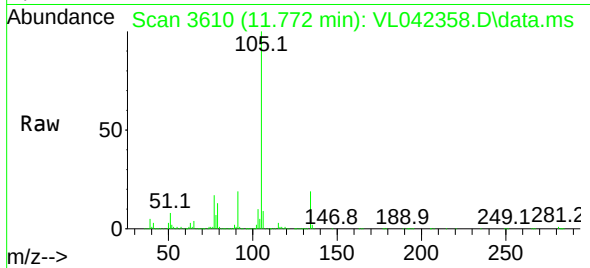
128 5.0 4.5 6.7





#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

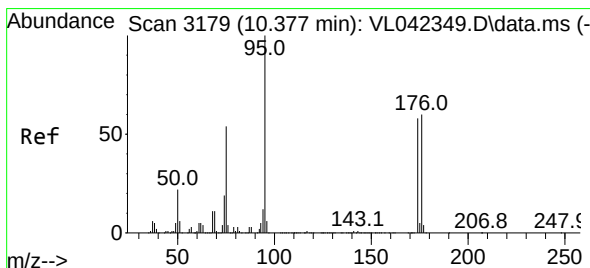
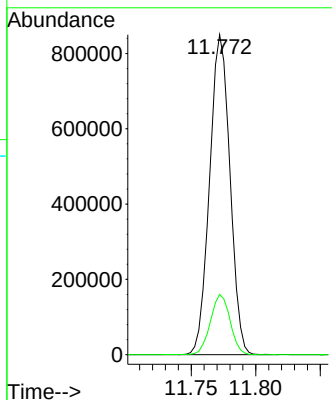
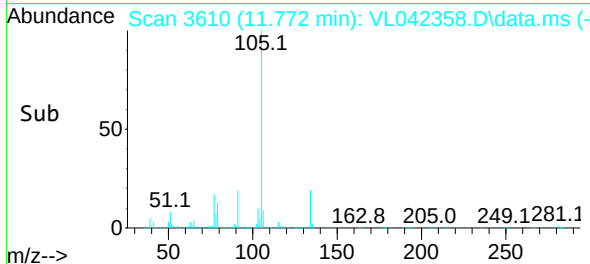
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0417ABS01



Tgt Ion: 105 Resp: 930420
 Ion Ratio Lower Upper
 105 100
 134 18.3 14.6 21.8

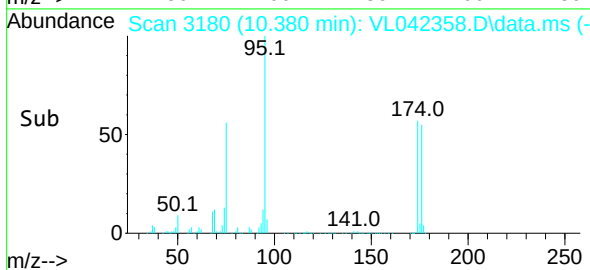
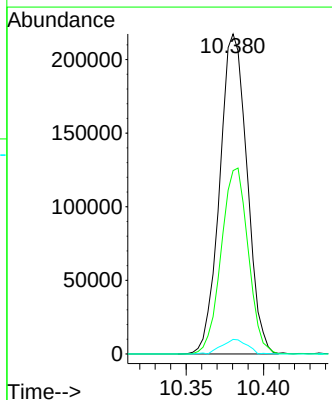
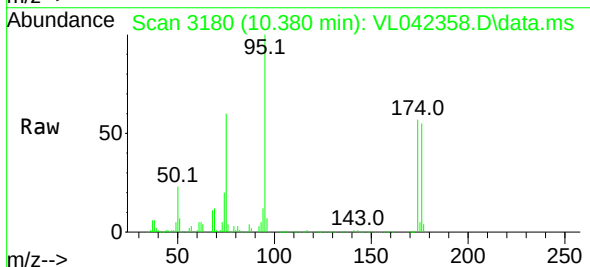
Manual Integrations
 APPROVED

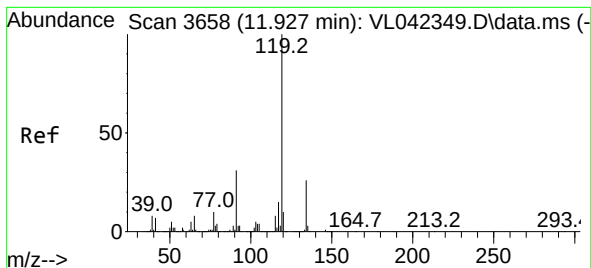
Reviewed By : Semsettin Yesilyurt 04/18/2025
 Supervised By : Mahesh Dadoda 04/18/2025



#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

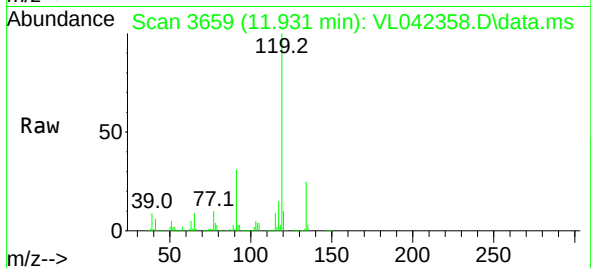
Tgt Ion: 95 Resp: 266757
 Ion Ratio Lower Upper
 95 100
 174 57.3 48.5 72.7
 175 4.3 3.7 5.5





#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

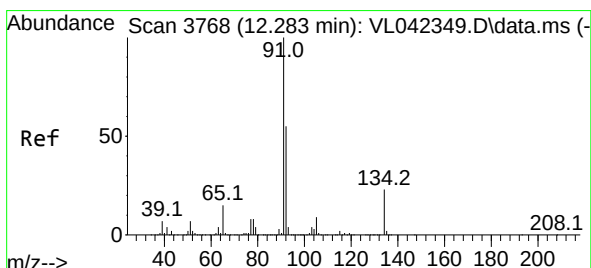
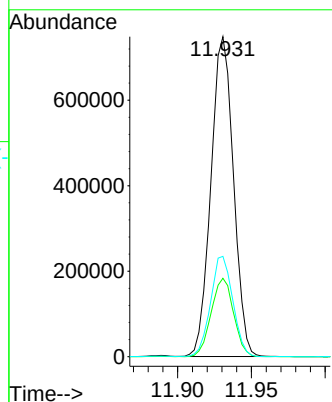
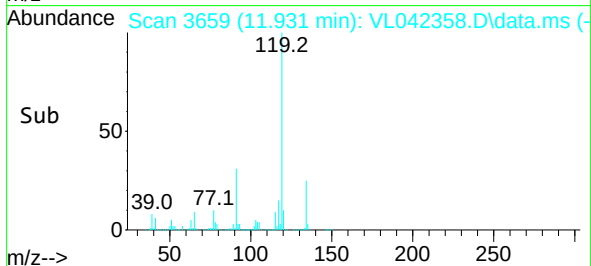
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01



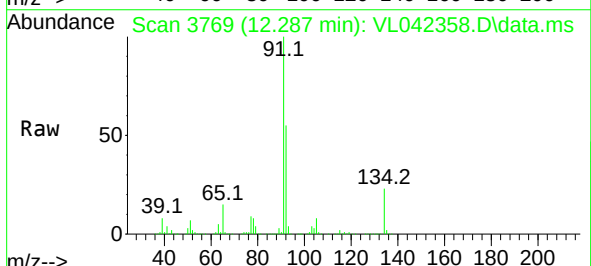
Tgt Ion: 119 Resp: 795532
Ion Ratio Lower Upper
119 100
134 24.5 20.0 30.0
91 31.2 24.4 36.6

Manual Integrations
APPROVED

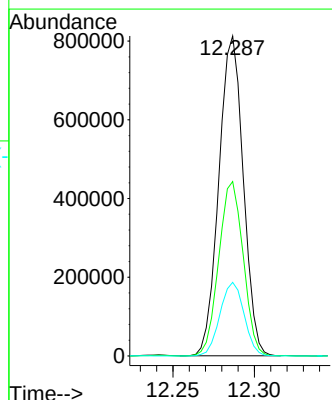
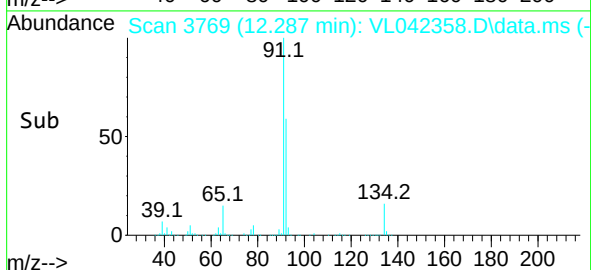
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

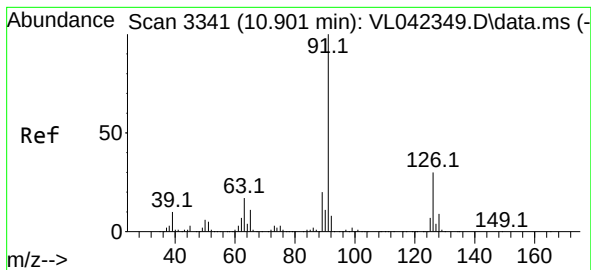


#70
n-Butylbenzene
Concen: 9.644 ppbv
RT: 12.287 min Scan# 3769
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39



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





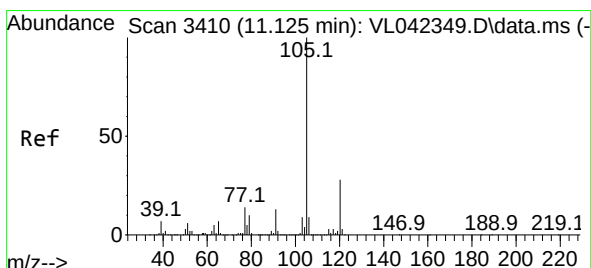
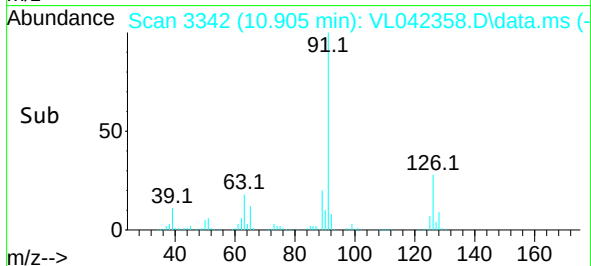
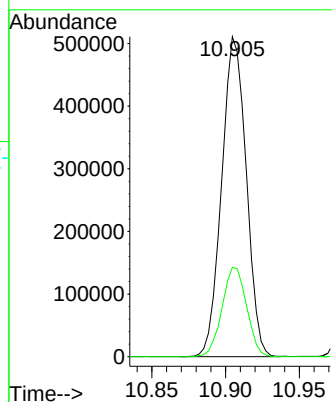
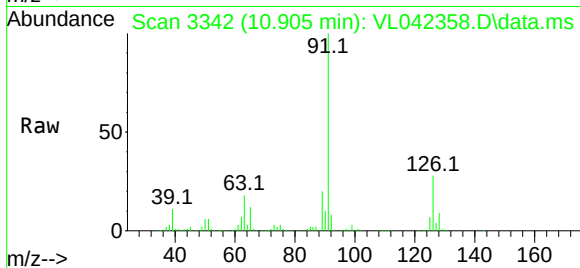
#71
2-Chlorotoluene
Concen: 9.934 ppbv
RT: 10.905 min Scan# 311
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Tgt Ion: 91 Resp: 591154
Ion Ratio Lower Upper
91 100
126 27.9 11.4 45.4

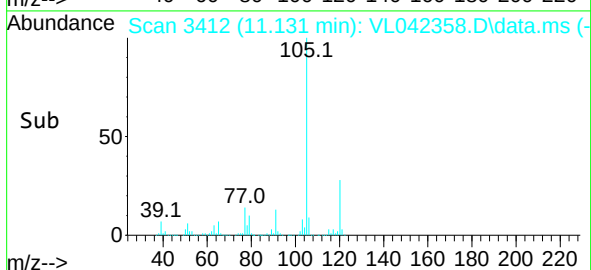
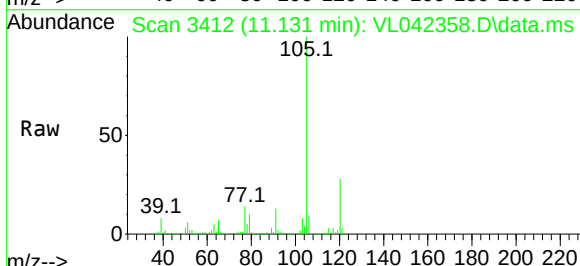
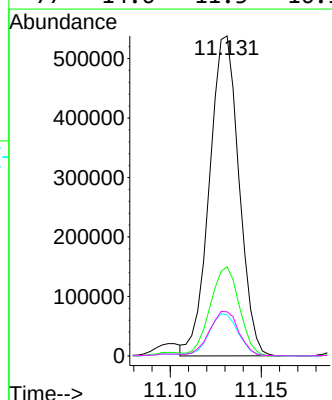
Manual Integrations
APPROVED

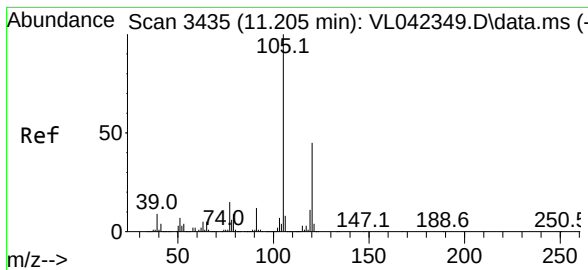
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025



#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

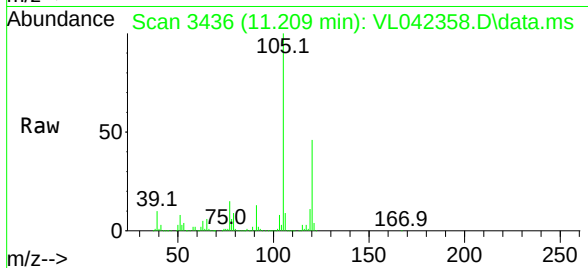
Tgt Ion:105 Resp: 606879
Ion Ratio Lower Upper
105 100
120 28.6 23.2 34.8
91 13.5 10.4 15.6
77 14.6 11.3 16.9





#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

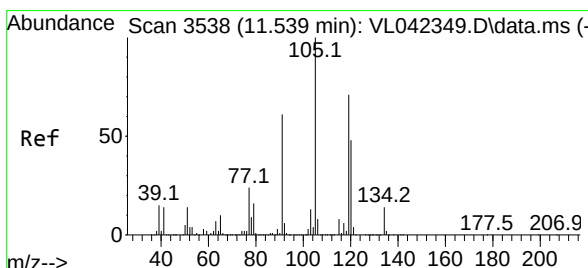
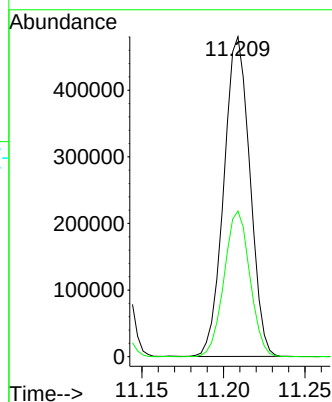
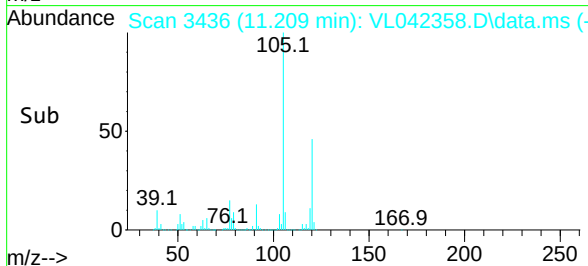
Instrument :
MSVOA_1
ClientSampleId :
VL0417ABS01



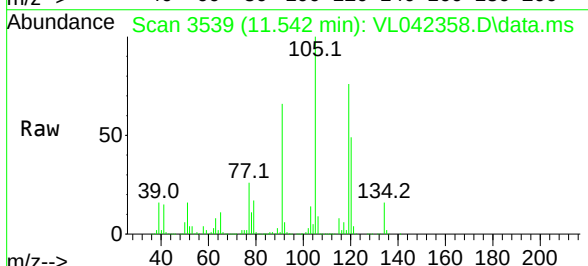
Tgt Ion:105 Resp: 533060
Ion Ratio Lower Upper
105 100
120 45.6 35.6 53.4

Manual Integrations
APPROVED

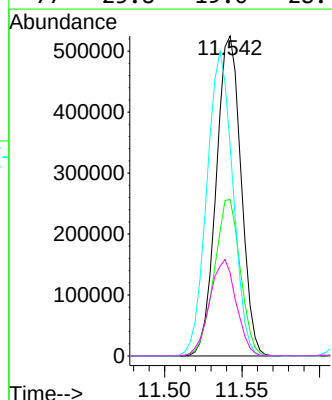
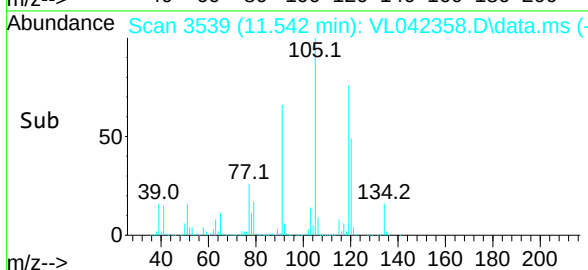
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

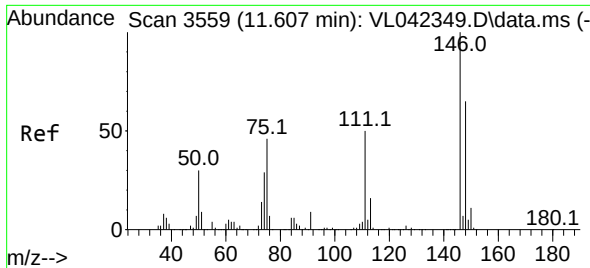


#74
1,2,4-Trimethylbenzene
Concen: 8.976 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39



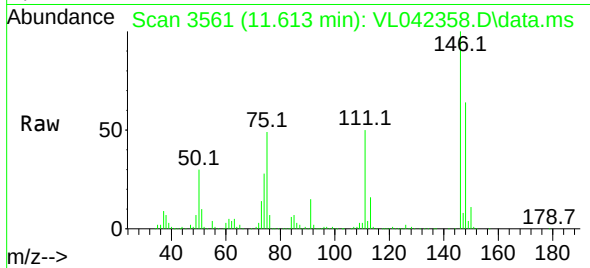
Tgt Ion:105 Resp: 584747
Ion Ratio Lower Upper
105 100
120 48.9 38.1 57.1
91 65.8 48.8 73.2
77 25.8 19.0 28.4





#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

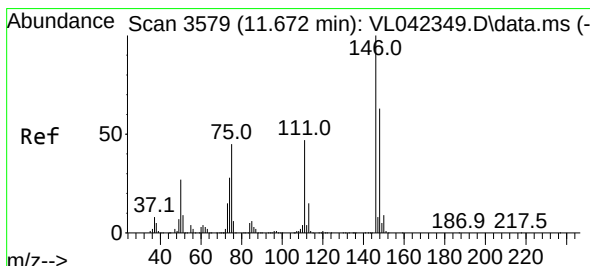
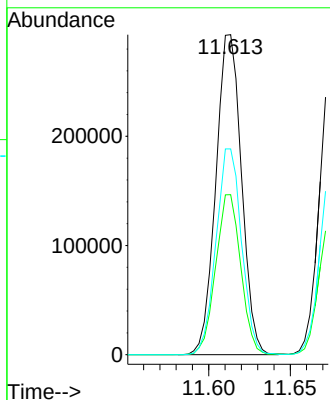
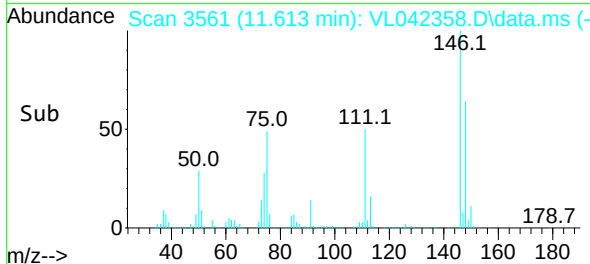
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01



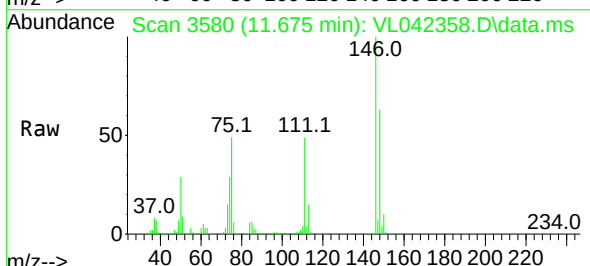
Tgt Ion:146 Resp: 32081
Ion Ratio Lower Upper
146 100
111 48.8 24.3 72.8
148 64.0 31.6 94.8

Manual Integrations
APPROVED

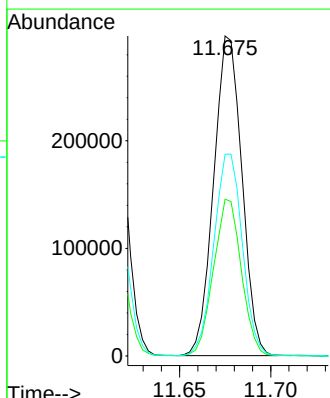
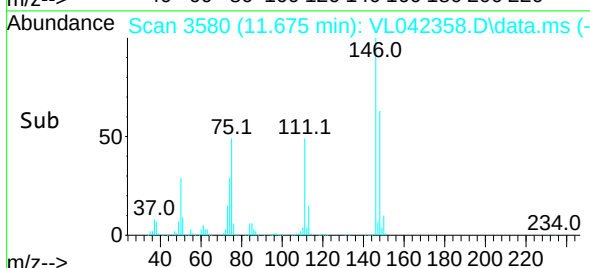
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

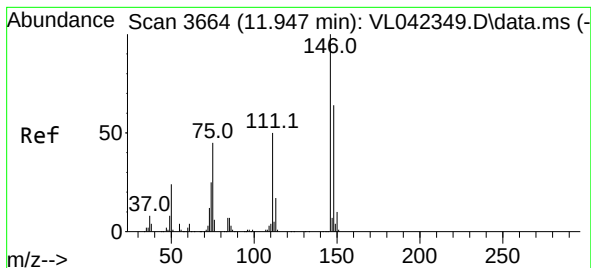


#76
1,4-Dichlorobenzene
Concen: 9.384 ppbv
RT: 11.675 min Scan# 3580
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39



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

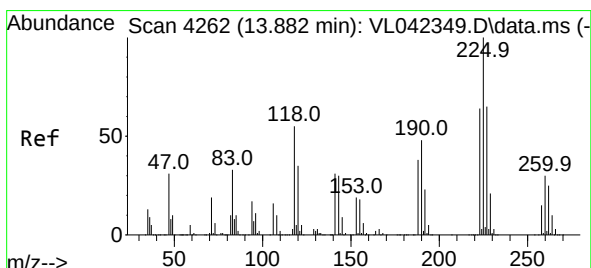
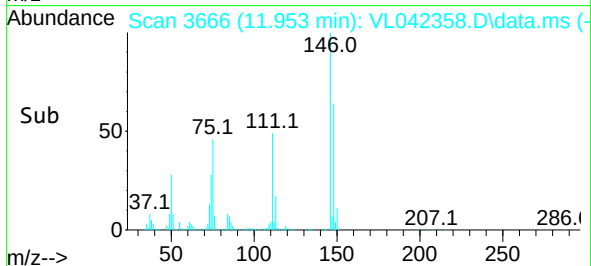
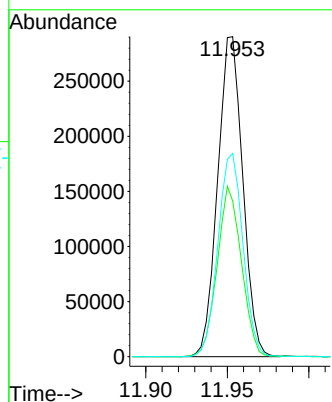
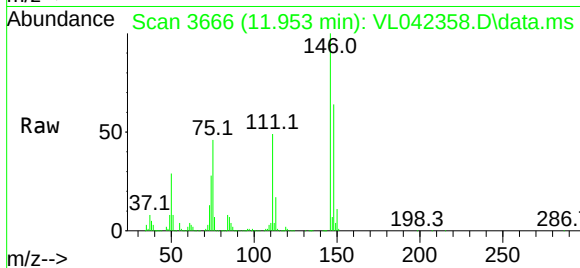
Tgt Ion:146 Resp: 311460

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

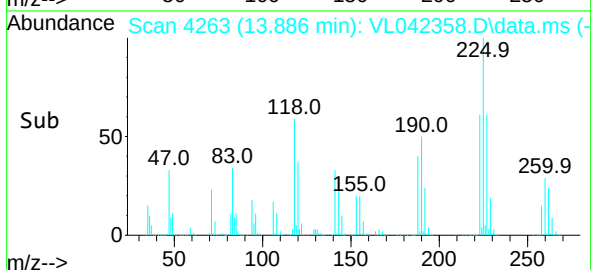
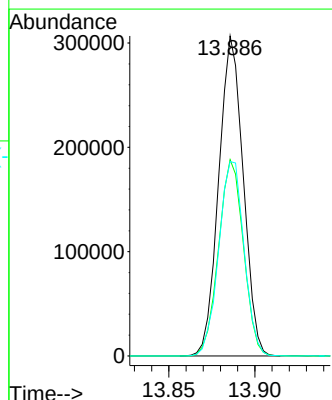
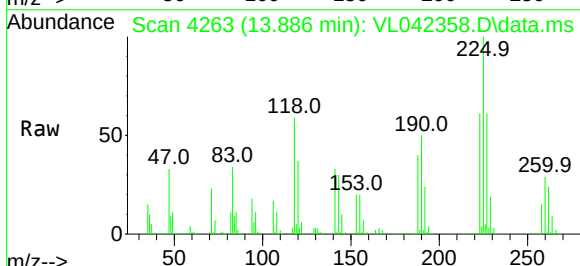
Delta R.T. 0.003 min

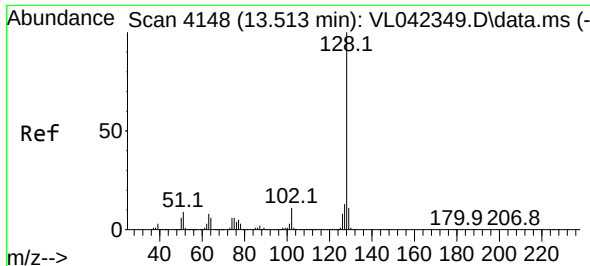
Lab File: VL042358.D

Acq: 17 Apr 2025 15:39

Tgt Ion:225 Resp: 303379

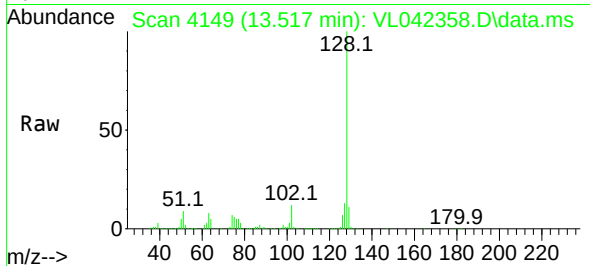
Ion	Ratio	Lower	Upper
225	100		
223	62.3	50.3	75.5
227	62.9	51.5	77.3





#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

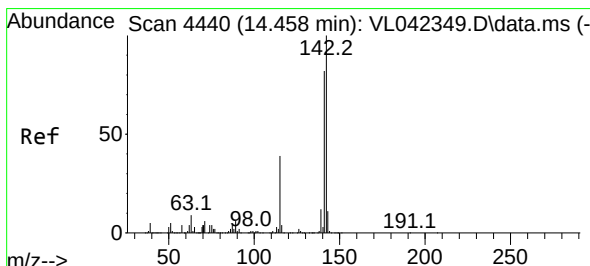
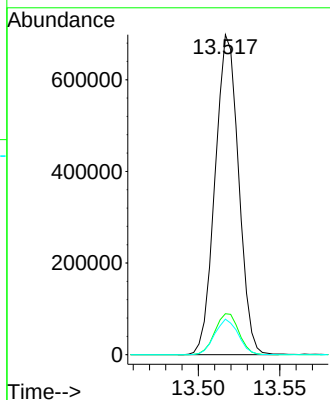
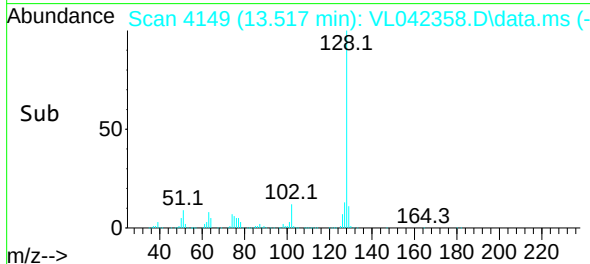
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01



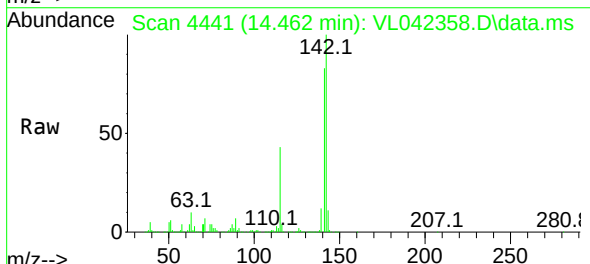
Tgt Ion:128 Resp: 701010
Ion Ratio Lower Upper
128 100
127 12.8 10.6 15.8
129 11.1 8.6 12.8

Manual Integrations
APPROVED

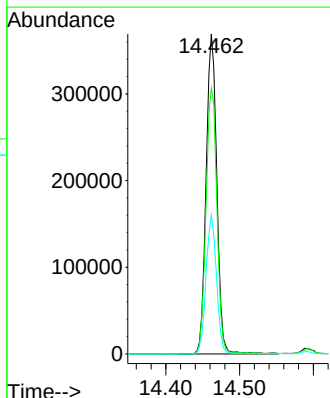
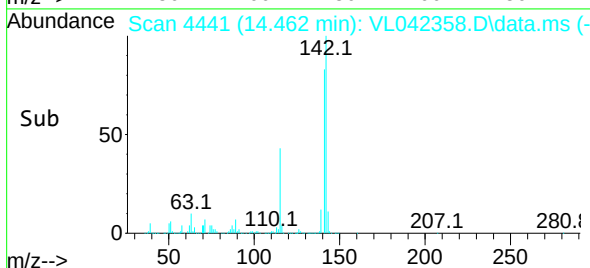
Reviewed By :Semsettin Yesilyurt 04/18/2025
Supervised By :Mahesh Dadoda 04/18/2025

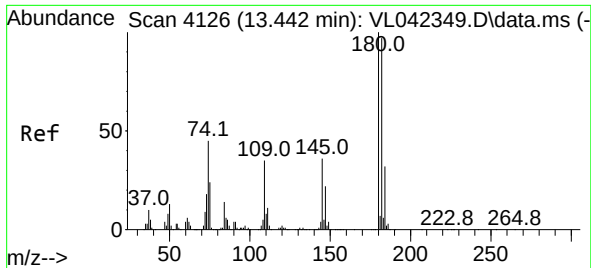


#80
Naphthalene,2-methyl-
Concen: 8.331 ppbv
RT: 14.462 min Scan# 4441
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39



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

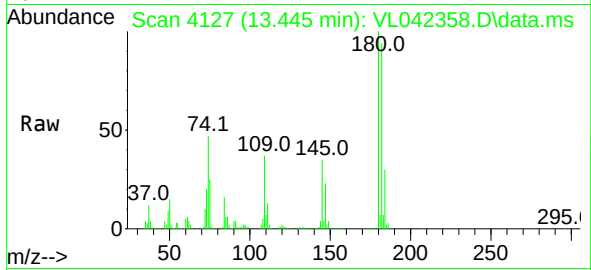
Acq: 17 Apr 2025 15:39

Instrument :

MSVOA_L

ClientSampleId :

VL0417ABS01



Tgt Ion:180 Resp: 31500

Ion Ratio Lower Upper

180 100

182 94.8 76.8 115.2

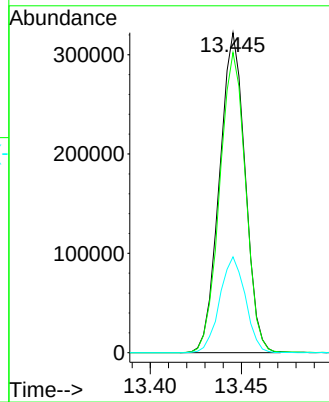
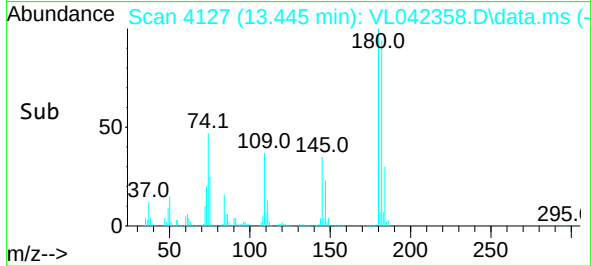
184 30.1 24.6 36.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/18/2025

Supervised By :Mahesh Dadoda 04/18/2025



Report of Analysis

Client:	Woodard & Curran	Date Collected:	
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	
Client Sample ID:	VL0418ABS01	SDG No.:	Q1726
Lab Sample ID:	VL0418ABS01	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
VL042385.D	1		04/18/25 11:38	VL041825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	9.30	46.0		1.04	2.47	ug/m3
64-17-5	Ethanol	2.30	4.33		0.60	0.94	ug/m3
74-87-3	Chloromethane	8.60	17.8		0.21	1.03	ug/m3
75-01-4	Vinyl Chloride	7.60	19.4		0.030	0.080	ug/m3
74-83-9	Bromomethane	8.50	33.0		0.54	1.94	ug/m3
75-00-3	Chloroethane	8.30	21.9		0.45	1.32	ug/m3
109-99-9	Tetrahydrofuran	6.90	20.4		0.38	1.47	ug/m3
75-69-4	Trichlorofluoromethane	9.50	53.4		0.90	2.81	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	8.90	68.2		1.23	3.83	ug/m3
76-14-2	Dichlorotetrafluoroethane	9.10	63.6		0.63	3.49	ug/m3
593-60-2	Bromoethene	9.10	39.8		0.52	2.19	ug/m3
75-65-0	tert-Butyl alcohol	8.20	24.9		0.58	1.52	ug/m3
142-82-5	Heptane	6.80	27.9		0.45	2.05	ug/m3
67-63-0	Isopropyl Alcohol	8.20	20.2		0.17	1.23	ug/m3
75-35-4	1,1-Dichloroethene	8.70	34.5		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	8.70	27.1		0.50	1.56	ug/m3
1634-04-4	Methyl tert-Butyl Ether	8.30	29.9		0.43	1.80	ug/m3
75-09-2	Methylene Chloride	7.40	25.7		0.66	1.74	ug/m3
156-60-5	trans-1,2-Dichloroethene	8.70	34.5		0.75	1.98	ug/m3
75-34-3	1,1-Dichloroethane	8.90	36.0		0.53	2.02	ug/m3
110-82-7	Cyclohexane	8.10	27.9		0.76	1.72	ug/m3
78-93-3	2-Butanone	7.20	21.2		0.35	1.47	ug/m3
56-23-5	Carbon Tetrachloride	8.60	54.1		0.060	0.19	ug/m3
156-59-2	cis-1,2-Dichloroethene	8.60	34.1		0.36	1.98	ug/m3
67-66-3	Chloroform	9.10	44.4		0.39	2.44	ug/m3
71-55-6	1,1,1-Trichloroethane	8.90	48.6		0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	7.20	33.6		0.47	2.34	ug/m3
71-43-2	Benzene	7.70	24.6		0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	8.70	35.2		0.36	2.02	ug/m3
79-01-6	Trichloroethene	7.60	40.8		0.11	0.16	ug/m3
78-87-5	1,2-Dichloropropane	7.20	33.3		0.51	2.31	ug/m3
75-27-4	Bromodichloromethane	8.50	56.9		0.54	3.35	ug/m3
108-10-1	4-Methyl-2-Pentanone	6.40	26.2		0.37	2.05	ug/m3
108-88-3	Toluene	7.60	28.6		0.41	1.88	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	
Client Sample ID:	VL0418ABS01	SDG No.:	Q1726
Lab Sample ID:	VL0418ABS01	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
VL042385.D	1		04/18/25 11:38	VL041825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	7.60	34.5		0.27	2.27	ug/m3
10061-01-5	cis-1,3-Dichloropropene	7.50	34.0		0.27	2.27	ug/m3
79-00-5	1,1,2-Trichloroethane	8.20	44.7		0.38	2.73	ug/m3
124-48-1	Dibromochloromethane	8.80	75.0		0.60	4.26	ug/m3
106-93-4	1,2-Dibromoethane	8.20	63.0		0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	7.70	52.2		0.14	0.20	ug/m3
108-90-7	Chlorobenzene	8.40	38.7		0.37	2.30	ug/m3
100-41-4	Ethyl Benzene	8.10	35.2		0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	16.4	71.2		0.91	4.34	ug/m3
95-47-6	o-Xylene	8.20	35.6		0.52	2.17	ug/m3
100-42-5	Styrene	8.20	34.9		0.47	2.13	ug/m3
75-25-2	Bromoform	8.80	91.0		0.62	5.17	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	7.30	50.1		0.070	0.21	ug/m3
95-49-8	2-Chlorotoluene	8.20	42.5		0.57	2.59	ug/m3
108-67-8	1,3,5-Trimethylbenzene	8.10	39.8		0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	7.70	37.9		0.39	2.46	ug/m3
541-73-1	1,3-Dichlorobenzene	8.60	51.7		0.48	3.01	ug/m3
106-46-7	1,4-Dichlorobenzene	8.50	51.1		0.30	3.01	ug/m3
95-50-1	1,2-Dichlorobenzene	8.40	50.5		0.48	3.01	ug/m3
120-82-1	1,2,4-Trichlorobenzene	8.40	62.4		0.67	3.71	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	8.60	91.7		0.96	5.33	ug/m3
106-99-0	1,3-Butadiene	7.60	16.8		0.29	1.11	ug/m3
91-20-3	Naphthalene	7.70	40.4		0.42	0.52	ug/m3
622-96-8	4-Ethyltoluene	8.30	40.8		0.59	2.46	ug/m3
110-54-3	Hexane	7.60	26.8		0.39	1.76	ug/m3
107-05-1	Allyl Chloride	8.00	25.0		0.47	1.57	ug/m3
123-91-1	1,4-Dioxane	6.80	24.5		0.76	1.80	ug/m3
80-62-6	Methyl Methacrylate	6.90	28.3		0.37	2.05	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	138000	2.781
540-36-3	1,4-Difluorobenzene	422000	3.952
3114-55-4	Chlorobenzene-d5	372000	8.875

Report of Analysis

Client:	Woodard & Curran	Date Collected:	
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	
Client Sample ID:	VL0418ABS01	SDG No.:	Q1726
Lab Sample ID:	VL0418ABS01	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
VL042385.D	1		04/18/25 11:38	VL041825

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\VL041825\
 Data File : VL042385.D
 Acq On : 18 Apr 2025 11:38
 Operator : SY/MD
 Sample : VL0418ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0418ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2025
 Supervised By :Mahesh Dadoda 04/21/2025

Quant Time: Apr 18 22:56:38 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	2.781	49	137596	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	421834	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	371546	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.371 95 306062 10.024 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.200%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.496	85	226018	9.297	ppbv	97
3) Chlorodifluoromethane	1.473	51	188655	8.149	ppbv	97
4) Chloromethane	1.531	50	83080	8.636	ppbv	98
5) Vinyl Chloride	1.577	62	79548	7.596	ppbv	97
6) Bromomethane	1.664	94	38033	8.454	ppbv	90
7) Chloroethane	1.703	64	31293	8.263	ppbv	90
8) Dichlorotetrafluoroethane	1.551	85	190713	9.137	ppbv	98
9) Propene	1.483	41	72956	6.920	ppbv	99
10) Heptane	4.972	43	201993	6.820	ppbv	98
11) Trichlorofluoromethane	1.874	101	219477	9.494	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.137	101	167879	8.881	ppbv	97
13) Ethanol	1.719	45	3800	2.268	ppbv	96
14) Bromoethene	1.777	108	65024	9.126	ppbv	99
15) Acetone	1.832	43	164938	7.322	ppbv	98
16) 1,3-Butadiene	1.606	39	81350	7.551	ppbv	94
17) tert-Butyl alcohol	2.036	59	228926	8.201	ppbv	99
18) 1,1-Dichloroethene	2.030	96	76914	8.710	ppbv	98
19) Isopropyl Alcohol	1.884	45	103131	8.242	ppbv	99
20) Methylene Chloride	2.059	84	64925	7.360	ppbv	93
21) Allyl Chloride	2.091	41	123726	7.955	ppbv	98
22) trans-1,2-Dichloroethene	2.337	96	87708	8.723	ppbv	92
23) Vinyl Acetate	2.457	43	60750	6.663	ppbv #	96
24) 1,1-Dichloroethane	2.405	63	169635	8.882	ppbv	98
25) Ethyl Acetate	2.832	43	426071	7.672	ppbv	100
26) Hexane	2.823	57	170131	7.570	ppbv	97
27) Carbon Disulfide	2.146	76	208766	8.676	ppbv	98
28) Methyl tert-Butyl Ether	2.434	73	122891	8.345	ppbv	93
29) Chloroform	2.845	83	290070	9.131	ppbv	99
30) Cyclohexane	3.849	84	147689	8.129	ppbv	96
31) cis-1,2-Dichloroethene	2.716	61	184087	8.615	ppbv	97
32) 1,1,1-Trichloroethane	3.363	97	317651	8.882	ppbv	99
34) 2-Butanone	2.554	43	240467	7.208	ppbv	98
35) Carbon Tetrachloride	3.755	117	326652	8.556	ppbv	95
36) Benzene	3.651	78	349571	7.683	ppbv	96
37) 1,2-Dichloroethane	3.214	62	236222	8.650	ppbv	97
38) Trichloroethene	4.538	130	150355	7.561	ppbv	97
39) 1,2-Dichloropropane	4.305	63	122577	7.229	ppbv	94
40) 1,4-Dioxane	4.577	88	63539	6.819	ppbv #	91
41) Tetrahydrofuran	3.049	42	133932	6.885	ppbv	100
42) Bromodichloromethane	4.480	83	324378	8.535	ppbv	98
43) Methyl Methacrylate	4.875	69	142005	6.925	ppbv	97
44) 2,2,4-Trimethylpentane	4.635	57	567587	7.223	ppbv	97
45) t-1,3-Dichloropropene	6.406	75	159210	7.601	ppbv	93

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
 Data File : VL042385.D
 Acq On : 18 Apr 2025 11:38
 Operator : SY/MD
 Sample : VL0418ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0418ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2025
 Supervised By :Mahesh Dadoda 04/21/2025

Quant Time: Apr 18 22:56:38 2025

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

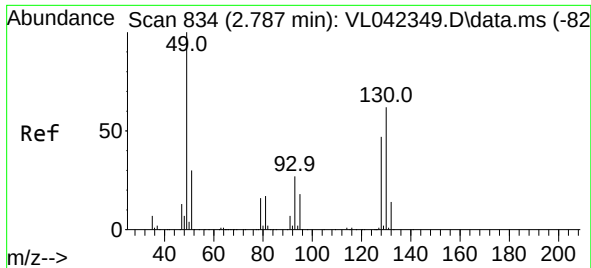
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

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

Response via : Initial Calibration

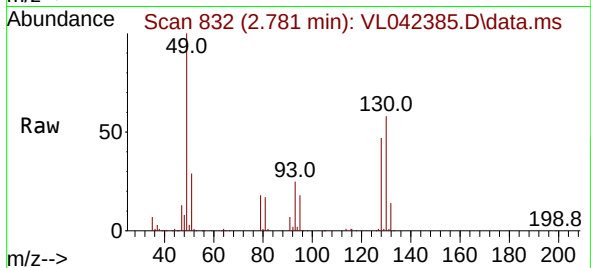
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.590	75	192875	7.523	ppbv	90
47) 1,1,2-Trichloroethane	6.574	97	141009	8.163	ppbv	97
48) Dibromochloromethane	7.380	129	267219	8.756	ppbv	99
49) Bromoform	9.477	173	235451	8.823	ppbv	99
50) 4-Methyl-2-Pentanone	5.742	43	357049	6.440	ppbv	100
51) 2-Hexanone	7.432	43	284839	5.729	ppbv	98
52) Tetrachloroethene	8.218	164	134768	7.663	ppbv	97
53) Toluene	6.924	91	416429	7.627	ppbv	100
54) 1,2-Dibromoethane	7.645	107	202809	8.204	ppbv	95
56) 1,1,1,2-Tetrachloroethane	8.917	131	204475	9.093	ppbv	97
57) Chlorobenzene	8.917	112	326071	8.438	ppbv	98
58) Ethyl Benzene	9.351	91	597552	8.117	ppbv	97
59) m/p-Xylene	9.545	91	974158m	16.427	ppbv	
60) o-Xylene	9.960	91	489890	8.203	ppbv	98
61) Styrene	9.866	104	232960	8.173	ppbv	99
62) Isopropylbenzene	10.536	105	734342	8.376	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.960	83	282429	7.298	ppbv	99
64) n-propylbenzene	10.986	120	184746	8.383	ppbv	96
65) tert-Butylbenzene	11.529	119	665320	8.256	ppbv	92
66) Benzyl Chloride	11.610	91	55103	6.223	ppbv	94
67) sec-Butylbenzene	11.766	105	911164	8.129	ppbv	98
69) p-Isopropyltoluene	11.921	119	799331	8.209	ppbv	99
70) n-Butylbenzene	12.277	91	817538	8.061	ppbv	99
71) 2-Chlorotoluene	10.895	91	562487	8.180	ppbv	98
72) 4-Ethyltoluene	11.121	105	602711	8.256	ppbv	99
73) 1,3,5-Trimethylbenzene	11.199	105	524369	8.135	ppbv	100
74) 1,2,4-Trimethylbenzene	11.533	105	583351	7.749	ppbv #	91
75) 1,3-Dichlorobenzene	11.604	146	335533	8.575	ppbv	99
76) 1,4-Dichlorobenzene	11.668	146	335101	8.520	ppbv	99
77) 1,2-Dichlorobenzene	11.944	146	319466	8.396	ppbv	99
78) Hexachloro-1,3-Butadiene	13.879	225	329813	8.584	ppbv	99
79) Naphthalene	13.510	128	691058	7.676	ppbv	99
80) Naphthalene,2-methyl-	14.455	142	380016	7.407	ppbv	99
81) 1,2,4-Trichlorobenzene	13.436	180	325017	8.408	ppbv	100

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 834
Delta R.T. -0.006 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

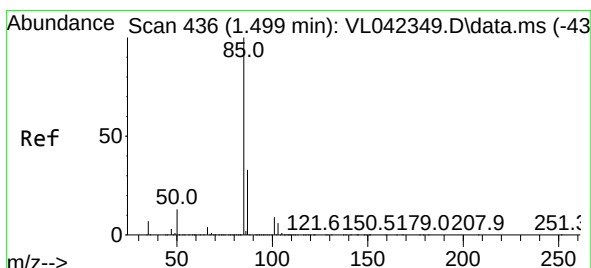
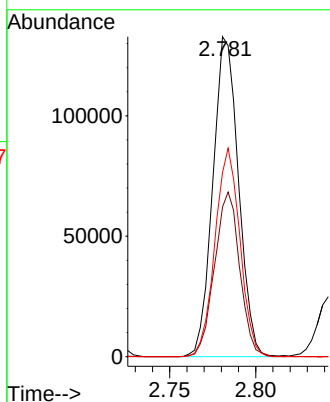
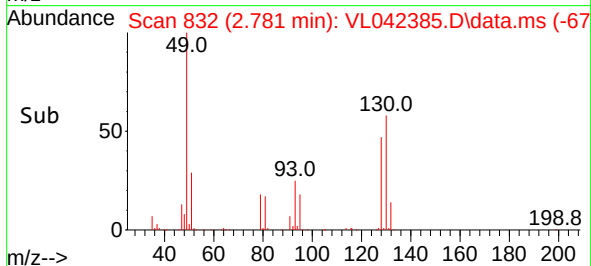
Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01



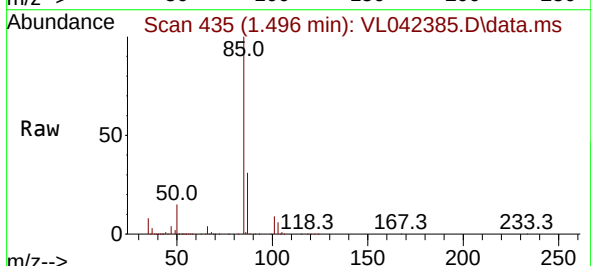
Tgt Ion: 49 Resp: 137590
Ion Ratio Lower Upper
49 100
128 50.6 22.8 68.4
130 63.3 29.3 88.0

Manual Integrations
APPROVED

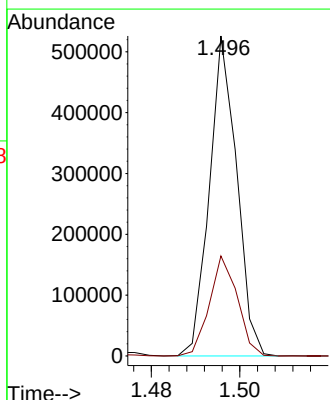
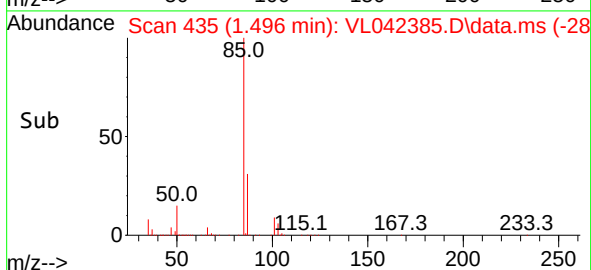
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

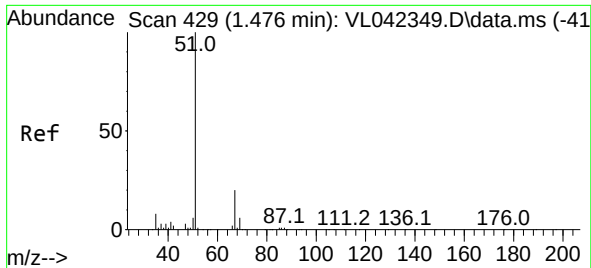


#2
Dichlorodifluoromethane
Concen: 9.297 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38



Tgt Ion: 85 Resp: 226018
Ion Ratio Lower Upper
85 100
87 31.3 26.6 39.8





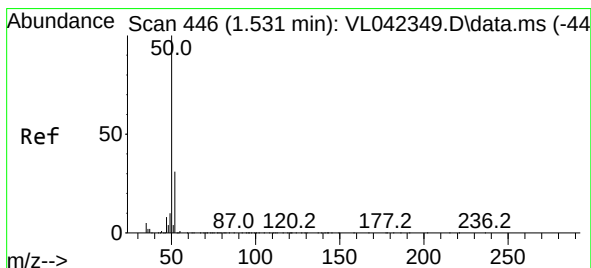
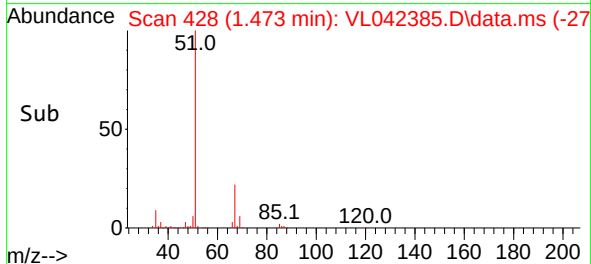
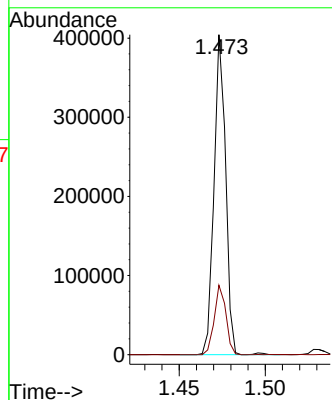
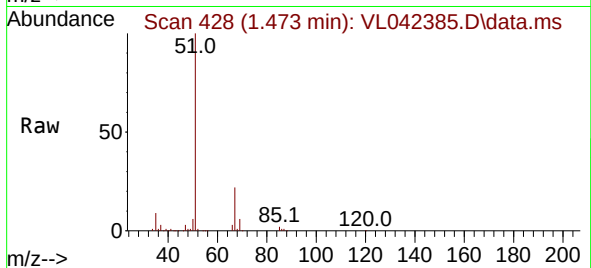
#3
Chlorodifluoromethane
Concen: 8.149 ppbv
RT: 1.473 min Scan# 429
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Tgt Ion: 51 Resp: 18865
Ion Ratio Lower Upper
51 100
67 21.8 16.2 24.4

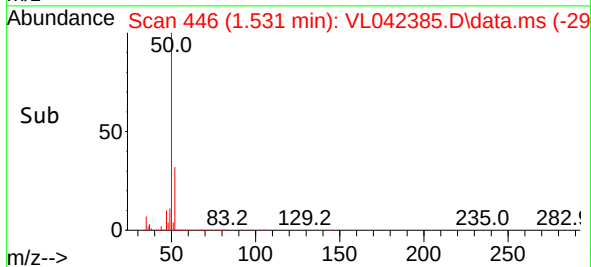
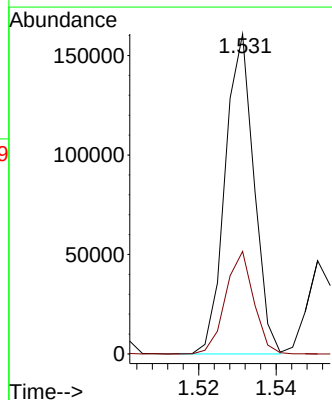
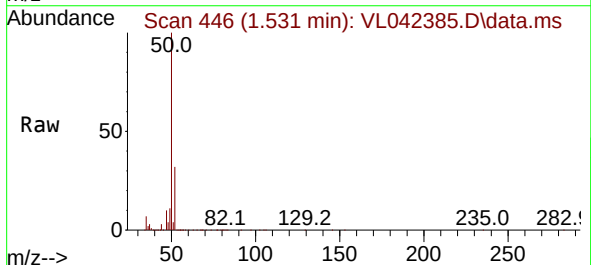
Manual Integrations
APPROVED

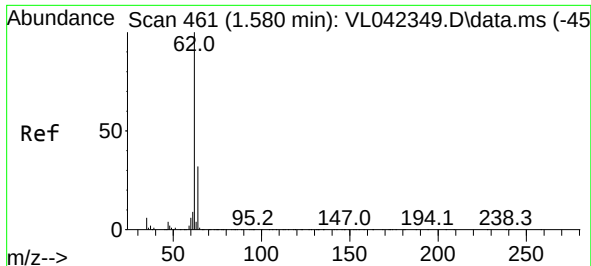
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025



#4
Chloromethane
Concen: 8.636 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

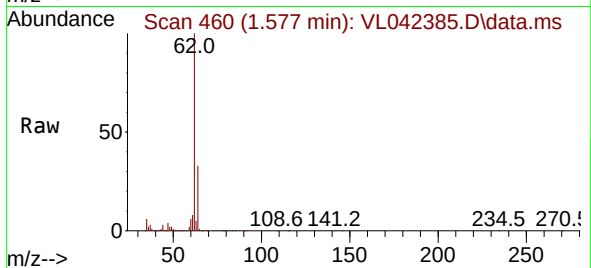
Tgt Ion: 50 Resp: 83080
Ion Ratio Lower Upper
50 100
52 32.1 24.7 37.1





#5
 Vinyl Chloride
 Concen: 7.596 ppbv
 RT: 1.577 min Scan# 460
 Delta R.T. -0.003 min
 Lab File: VL042385.D
 Acq: 18 Apr 2025 11:38

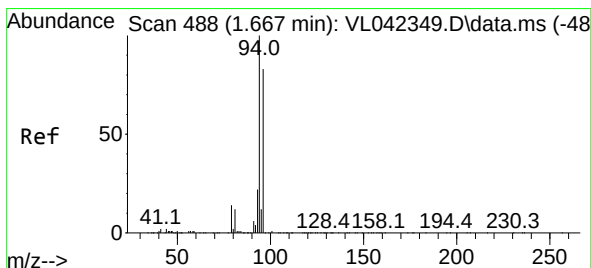
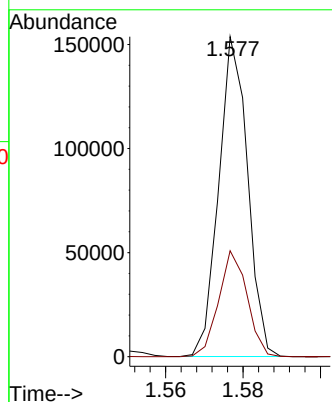
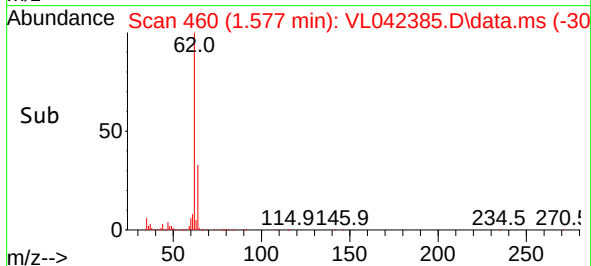
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0418ABS01



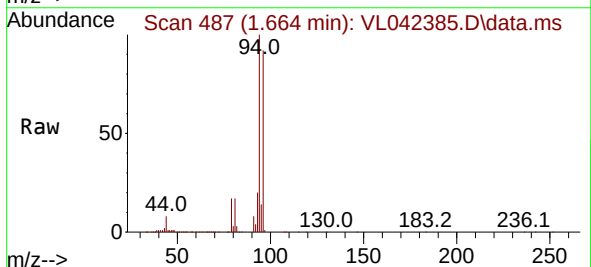
Tgt Ion: 62 Resp: 79548
 Ion Ratio Lower Upper
 62 100
 64 33.1 25.4 38.0

Manual Integrations
 APPROVED

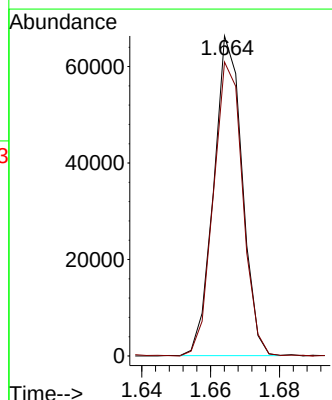
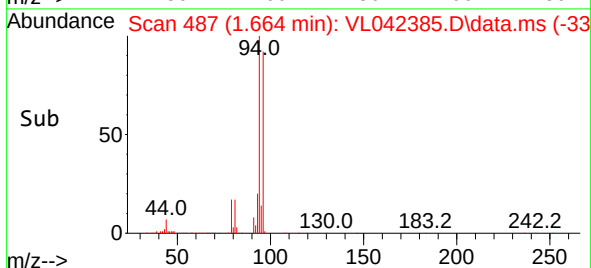
Reviewed By :Semsettin Yesilyurt 04/21/2025
 Supervised By :Mahesh Dadoda 04/21/2025

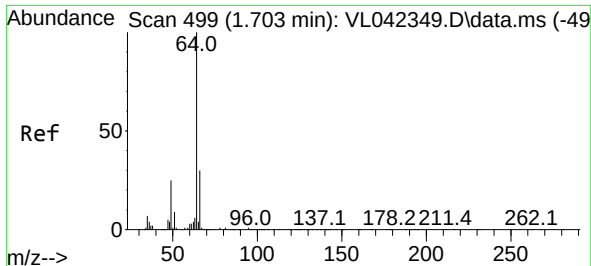


#6
 Bromomethane
 Concen: 8.454 ppbv
 RT: 1.664 min Scan# 487
 Delta R.T. -0.003 min
 Lab File: VL042385.D
 Acq: 18 Apr 2025 11:38



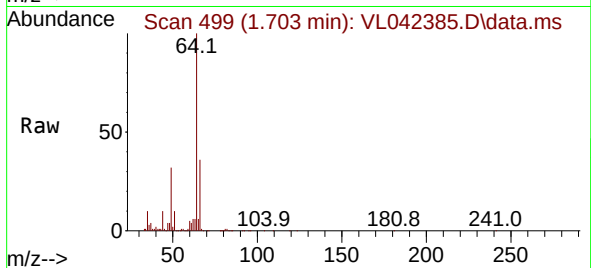
Tgt Ion: 94 Resp: 38033
 Ion Ratio Lower Upper
 94 100
 96 91.9 66.2 99.2





#7
Chloroethane
Concen: 8.263 ppbv
RT: 1.703 min Scan# 499
Delta R.T. 0.000 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

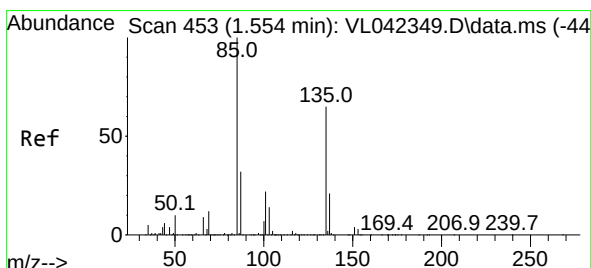
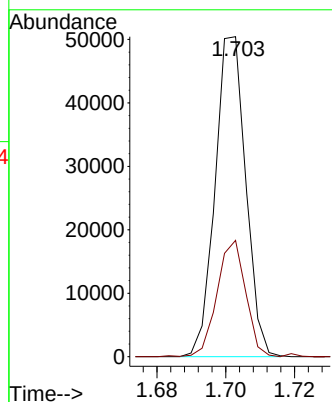
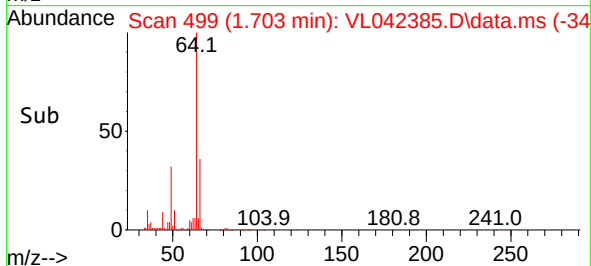
Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01



Tgt Ion: 64 Resp: 3129
Ion Ratio Lower Upper
64 100
66 36.4 24.6 37.0

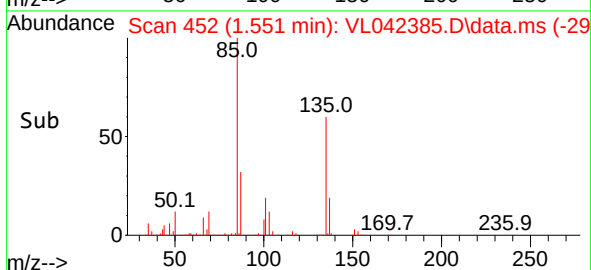
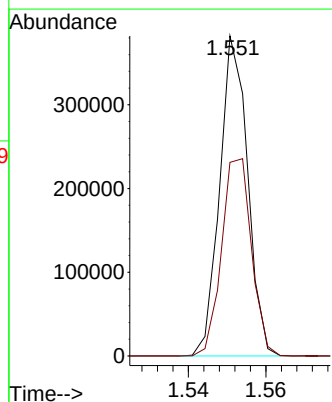
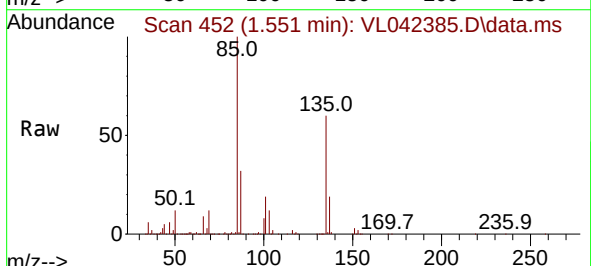
Manual Integrations
APPROVED

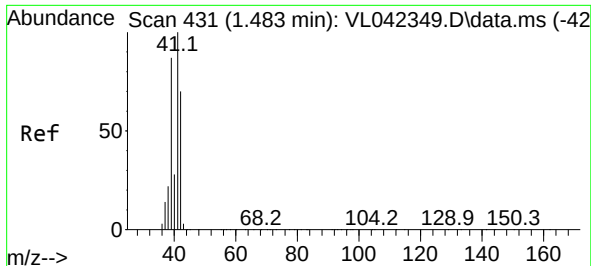
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025



#8
Dichlorotetrafluoroethane
Concen: 9.137 ppbv
RT: 1.551 min Scan# 452
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 85 Resp: 190713
Ion Ratio Lower Upper
85 100
135 66.5 52.2 78.2





#9

Propene

Concen: 6.920 ppbv

RT: 1.483 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL042385.D

Acq: 18 Apr 2025 11:38

Instrument :

MSVOA_L

ClientSampleId :

VL0418ABS01

Tgt Ion: 41 Resp: 72950

Ion Ratio Lower Upper

41 100

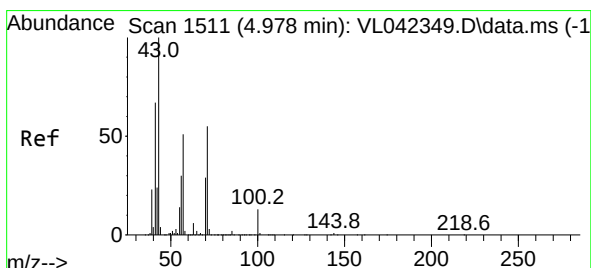
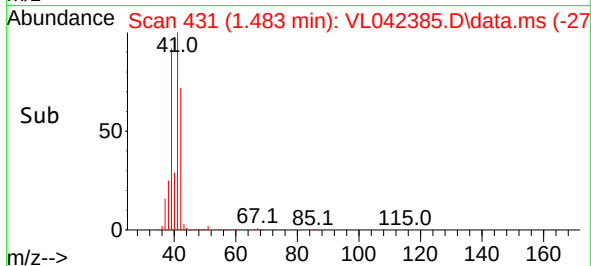
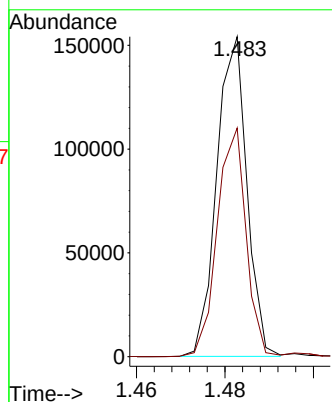
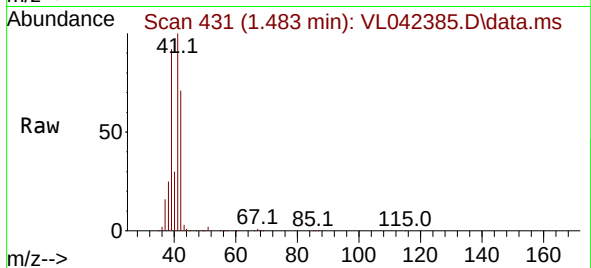
42 69.5 56.2 84.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2025

Supervised By :Mahesh Dadoda 04/21/2025



#10

Heptane

Concen: 6.820 ppbv

RT: 4.972 min Scan# 1509

Delta R.T. -0.006 min

Lab File: VL042385.D

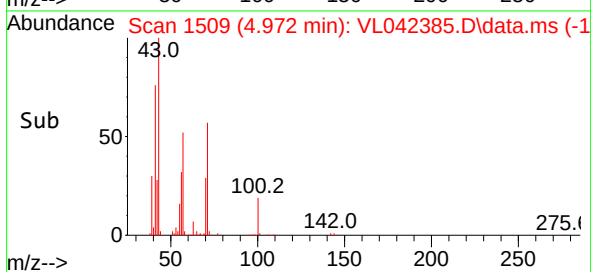
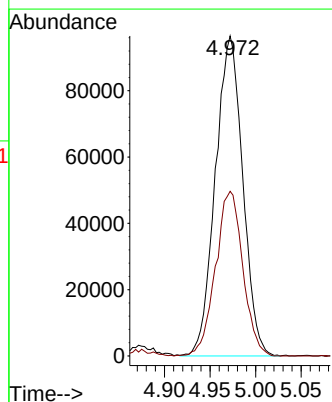
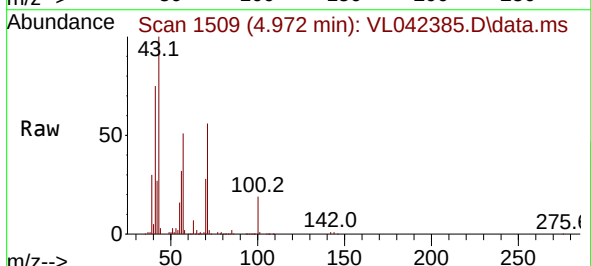
Acq: 18 Apr 2025 11:38

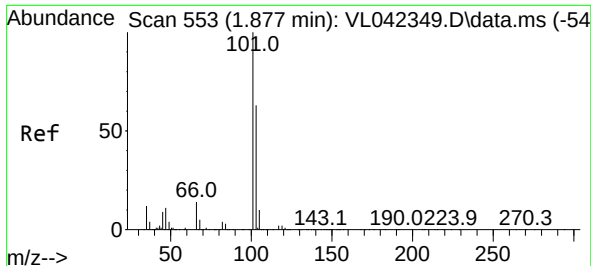
Tgt Ion: 43 Resp: 201993

Ion Ratio Lower Upper

43 100

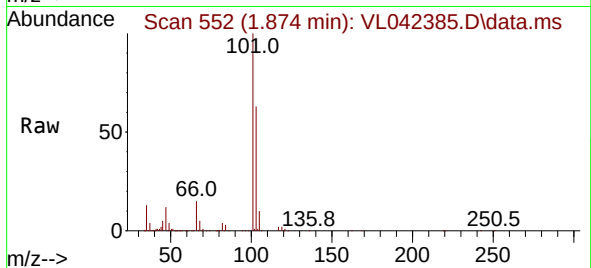
57 51.3 39.9 59.9





#11
 Trichlorofluoromethane
 Concen: 9.494 ppbv
 RT: 1.874 min Scan# 511
 Delta R.T. -0.003 min
 Lab File: VL042385.D
 Acq: 18 Apr 2025 11:38

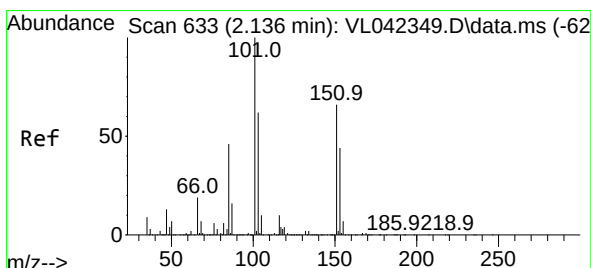
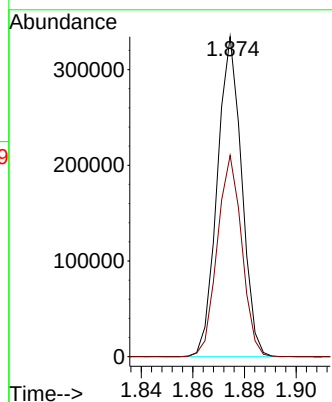
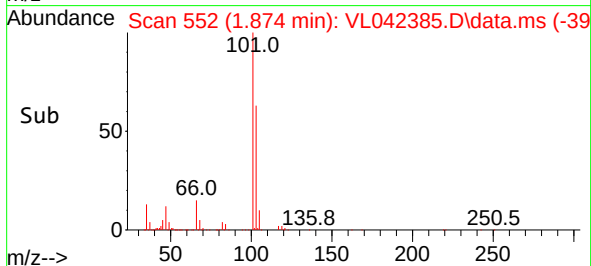
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0418ABS01



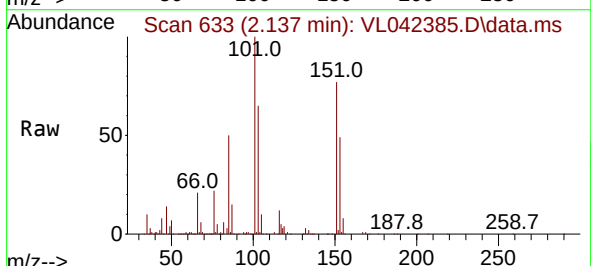
Tgt Ion:101 Resp: 21947
 Ion Ratio Lower Upper
 101 100
 103 62.9 50.1 75.1

Manual Integrations
 APPROVED

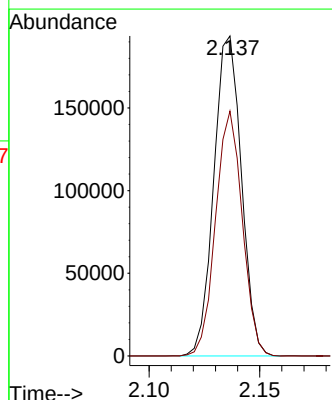
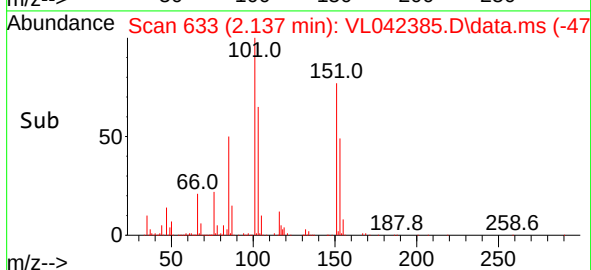
Reviewed By :Semsettin Yesilyurt 04/21/2025
 Supervised By :Mahesh Dadoda 04/21/2025

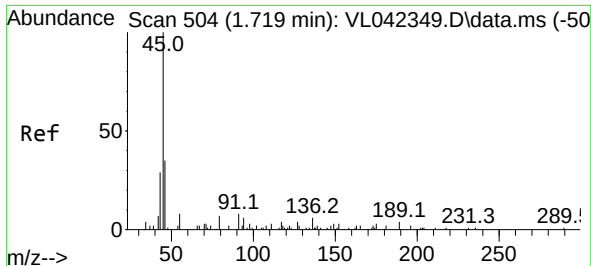


#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 8.881 ppbv
 RT: 2.137 min Scan# 633
 Delta R.T. 0.000 min
 Lab File: VL042385.D
 Acq: 18 Apr 2025 11:38



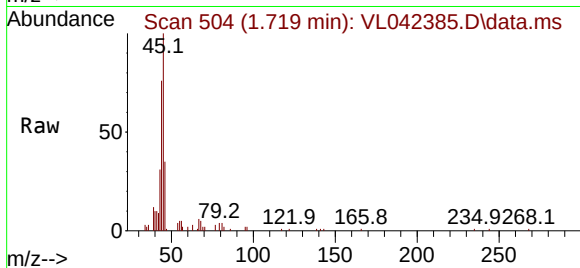
Tgt Ion:101 Resp: 167879
 Ion Ratio Lower Upper
 101 100
 151 74.0 57.0 85.6





#13
Ethanol
Concen: 2.268 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

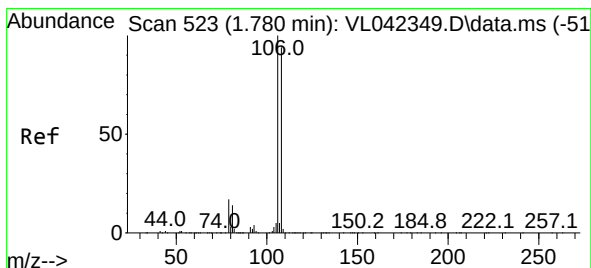
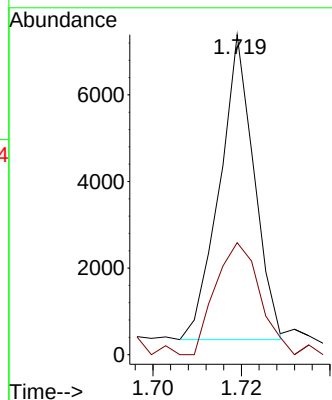
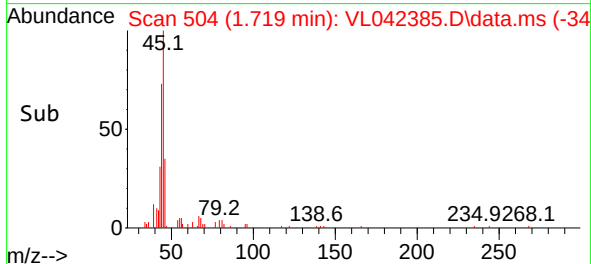
Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01



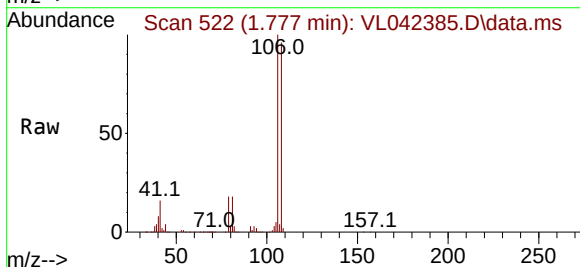
Tgt Ion: 45 Resp: 3800
Ion Ratio Lower Upper
45 100
46 51.6 21.9 87.7

Manual Integrations
APPROVED

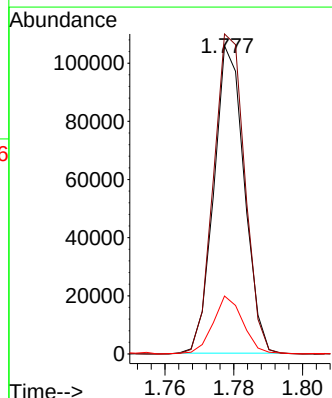
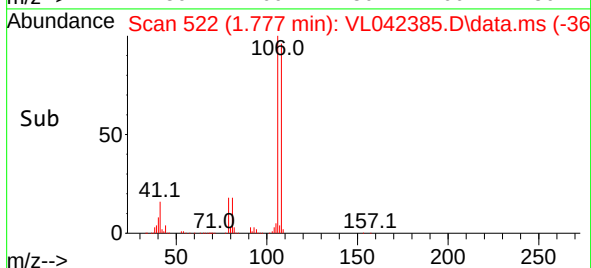
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

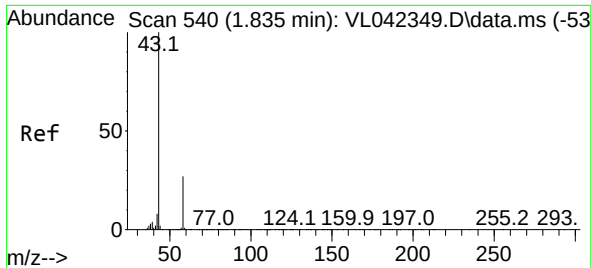


#14
Bromoethene
Concen: 9.126 ppbv
RT: 1.777 min Scan# 522
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38



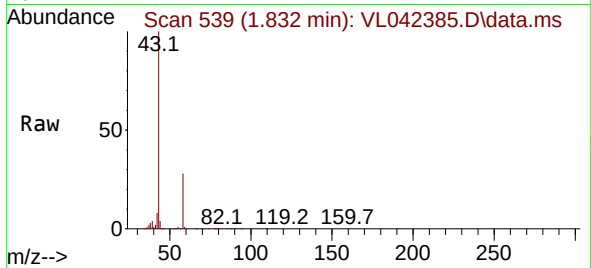
Tgt Ion:108 Resp: 65024
Ion Ratio Lower Upper
108 100
106 107.2 85.9 128.9
79 19.1 13.9 20.9





#15
Acetone
Concen: 7.322 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

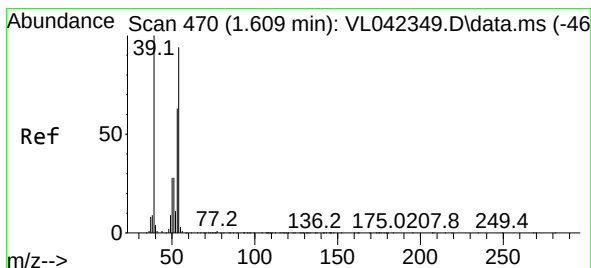
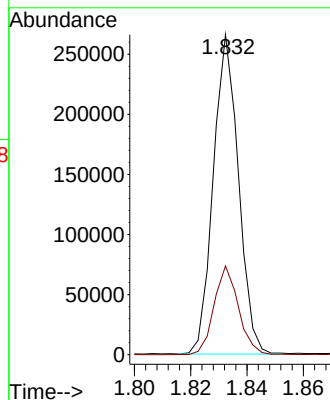
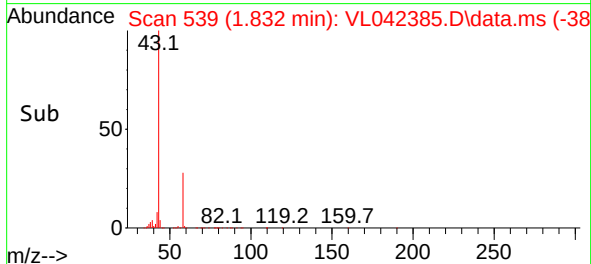
Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01



Tgt Ion: 43 Resp: 164938
Ion Ratio Lower Upper
43 100
58 27.0 22.4 33.6

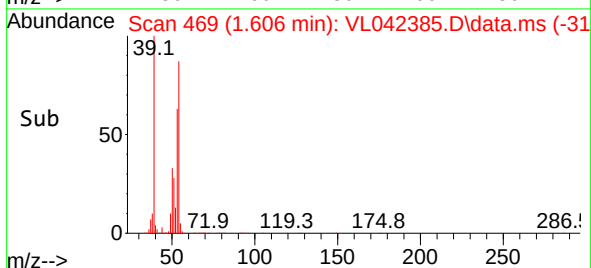
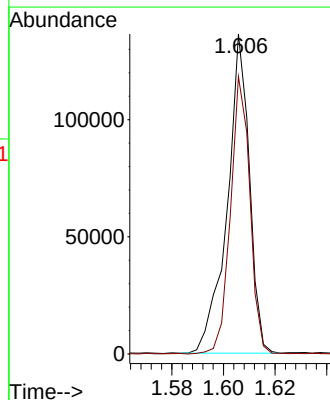
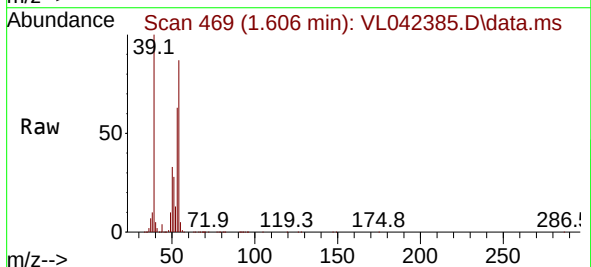
Manual Integrations
APPROVED

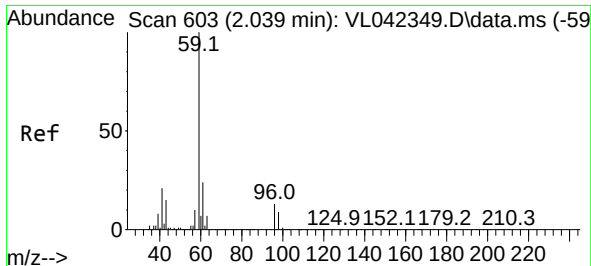
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025



#16
1,3-Butadiene
Concen: 7.551 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

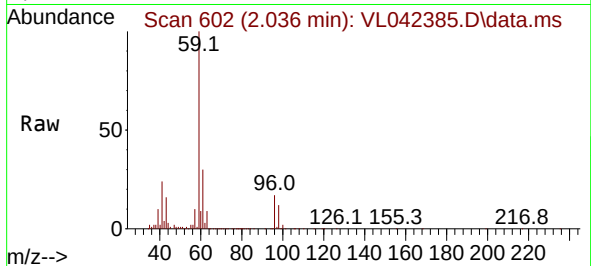
Tgt Ion: 39 Resp: 81350
Ion Ratio Lower Upper
39 100
54 75.9 64.9 97.3





#17
tert-Butyl alcohol
Concen: 8.201 ppbv
RT: 2.036 min Scan# 603
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

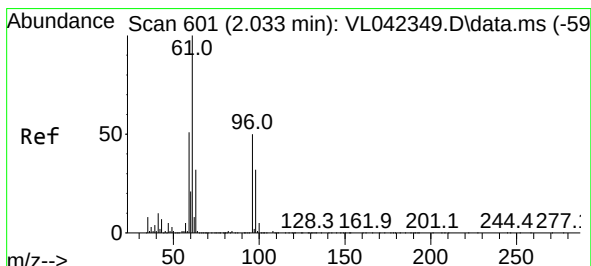
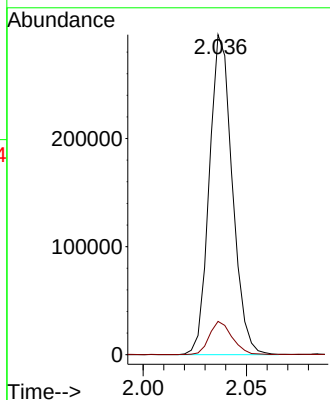
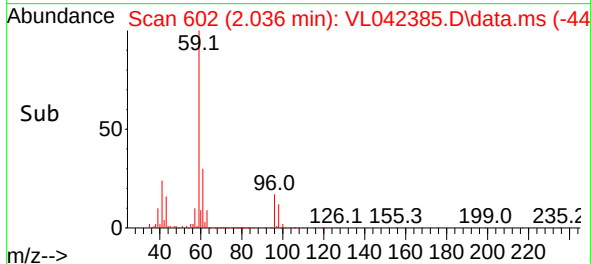
Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01



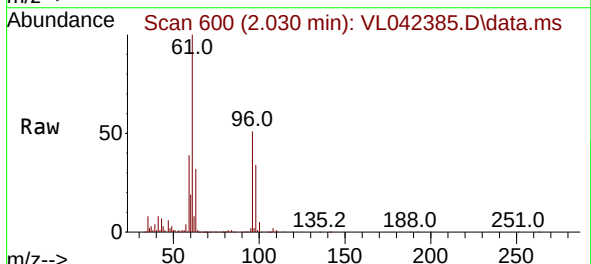
Tgt Ion: 59 Resp: 228920
Ion Ratio Lower Upper
59 100
57 10.7 8.7 13.1

Manual Integrations
APPROVED

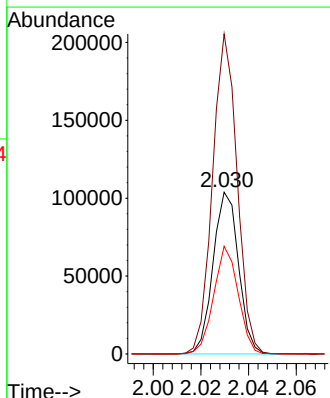
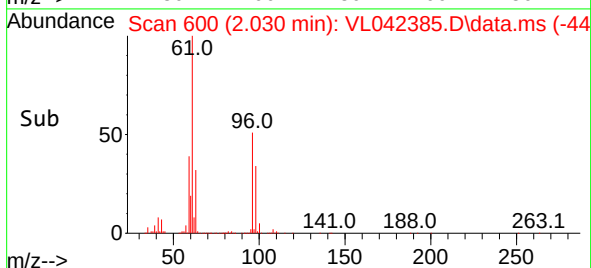
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

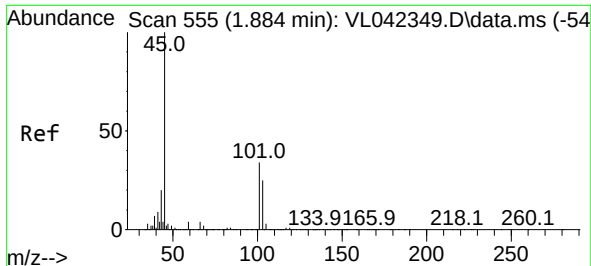


#18
1,1-Dichloroethene
Concen: 8.710 ppbv
RT: 2.030 min Scan# 600
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38



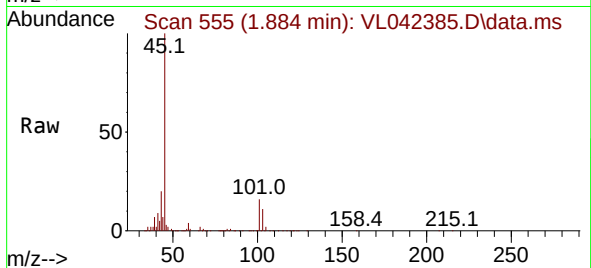
Tgt Ion: 96 Resp: 76914
Ion Ratio Lower Upper
96 100
61 197.8 160.2 240.2
98 66.6 51.0 76.4





#19
Isopropyl Alcohol
Concen: 8.242 ppbv
RT: 1.884 min Scan# 511
Delta R.T. 0.000 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

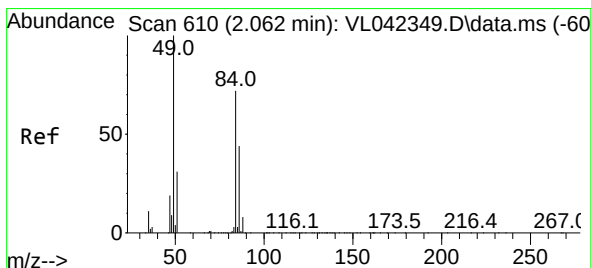
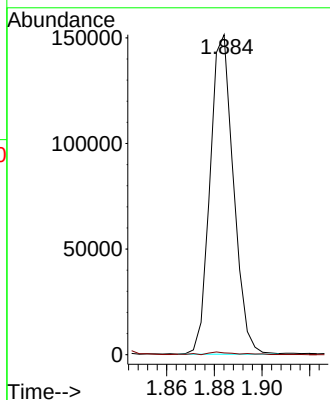
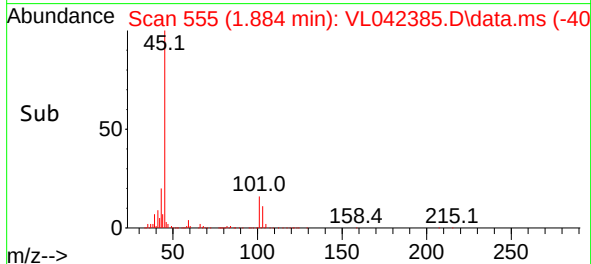
Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01



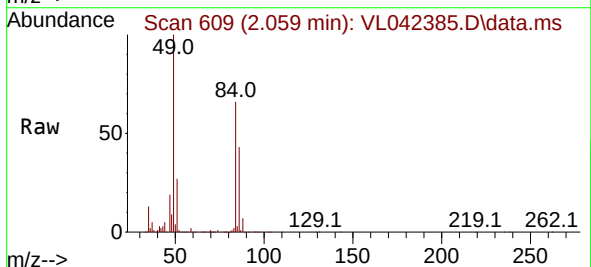
Tgt Ion: 45 Resp: 10313
Ion Ratio Lower Upper
45 100
58 43.5 34.5 51.7

Manual Integrations
APPROVED

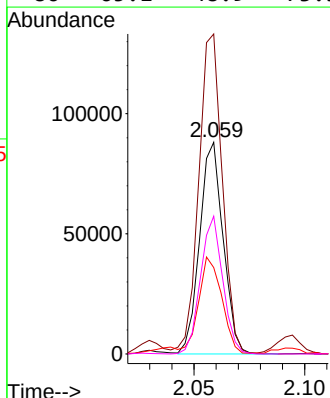
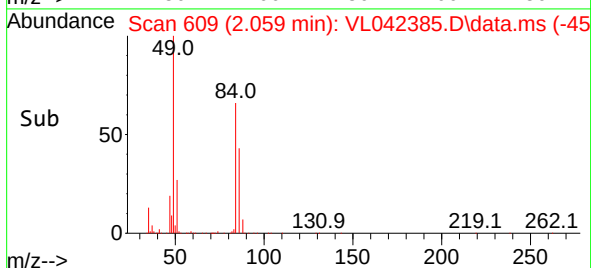
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

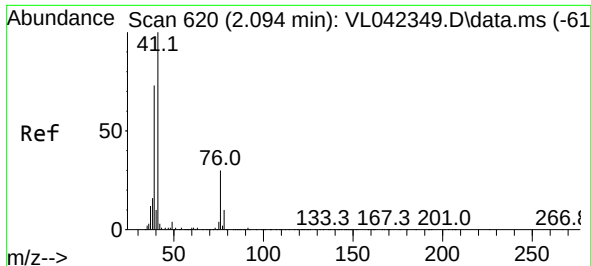


#20
Methylene Chloride
Concen: 7.360 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38



Tgt Ion: 84 Resp: 64925
Ion Ratio Lower Upper
84 100
49 148.0 111.6 167.4
51 39.0 35.1 52.7
86 65.1 48.9 73.3





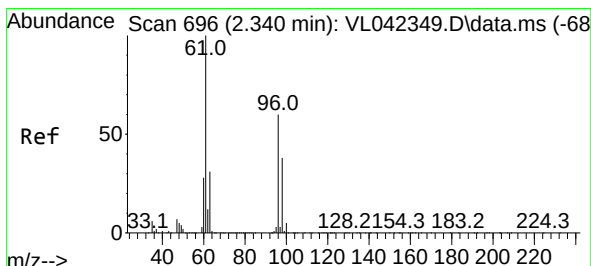
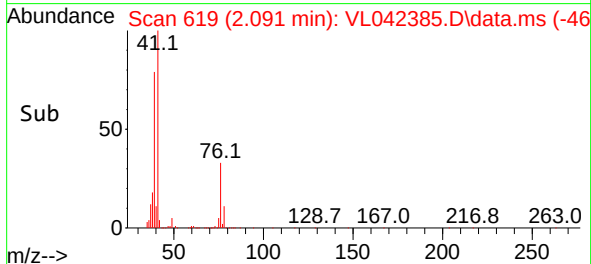
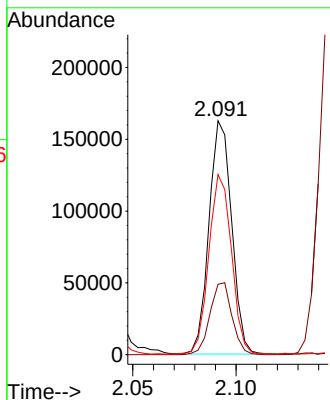
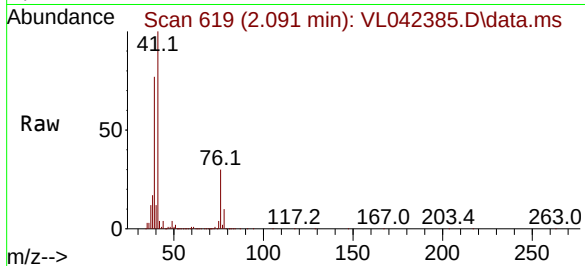
#21
 Allyl Chloride
 Concen: 7.955 ppbv
 RT: 2.091 min Scan# 619
 Delta R.T. -0.003 min
 Lab File: VL042385.D
 Acq: 18 Apr 2025 11:38

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0418ABS01

Tgt Ion: 41 Resp: 123720
 Ion Ratio Lower Upper
 41 100
 76 30.0 24.8 37.2
 39 76.9 60.6 90.8

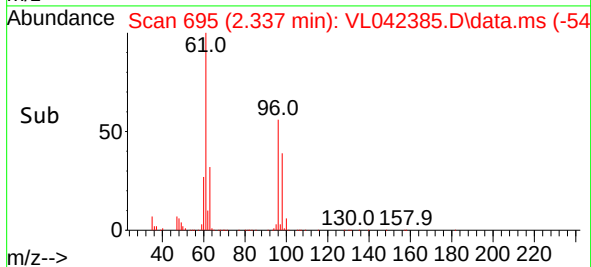
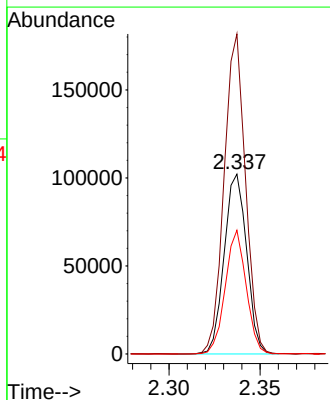
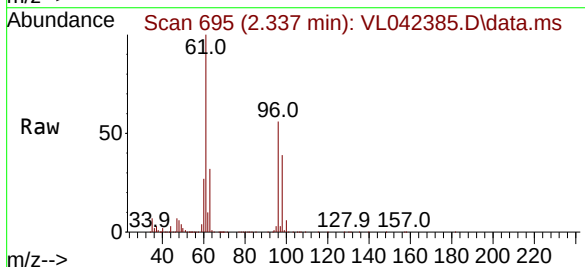
Manual Integrations
 APPROVED

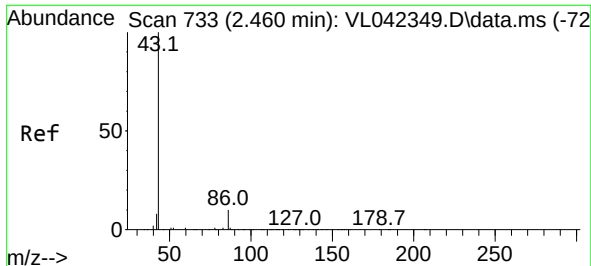
Reviewed By :Semsettin Yesilyurt 04/21/2025
 Supervised By :Mahesh Dadoda 04/21/2025



#22
 trans-1,2-Dichloroethene
 Concen: 8.723 ppbv
 RT: 2.337 min Scan# 695
 Delta R.T. -0.003 min
 Lab File: VL042385.D
 Acq: 18 Apr 2025 11:38

Tgt Ion: 96 Resp: 87708
 Ion Ratio Lower Upper
 96 100
 61 177.9 133.7 200.5
 98 68.8 50.3 75.5





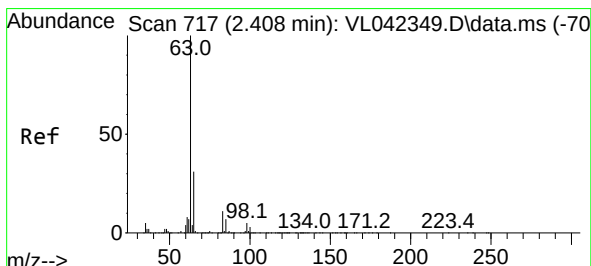
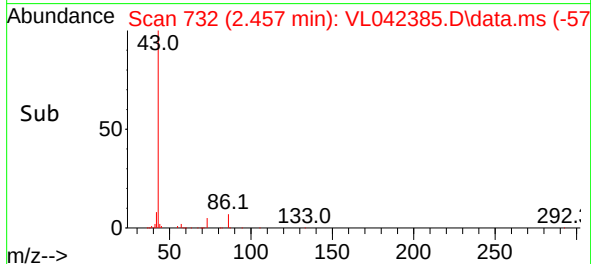
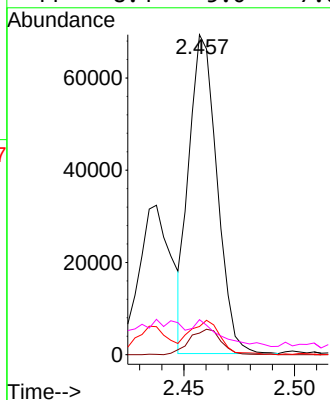
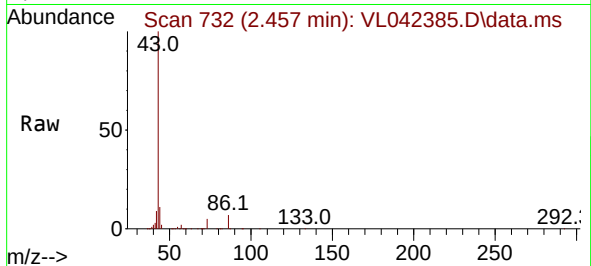
#23
 Vinyl Acetate
 Concen: 6.663 ppbv
 RT: 2.457 min Scan# 716
 Delta R.T. -0.003 min
 Lab File: VL042385.D
 Acq: 18 Apr 2025 11:38

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0418ABS01

Tgt Ion: 43 Resp: 60750
 Ion Ratio Lower Upper
 43 100
 86 6.8 6.5 9.7
 42 8.8 7.8 11.8
 44 8.4 5.0 7.6#

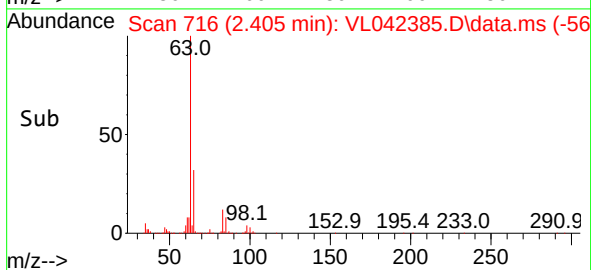
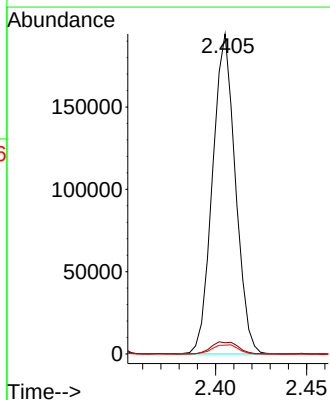
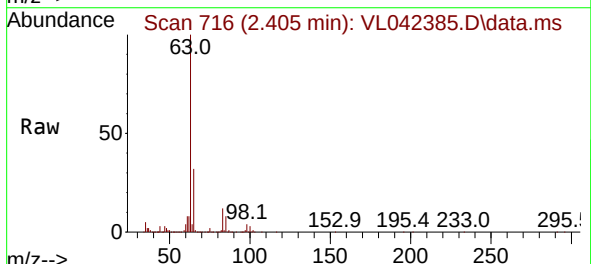
Manual Integrations
 APPROVED

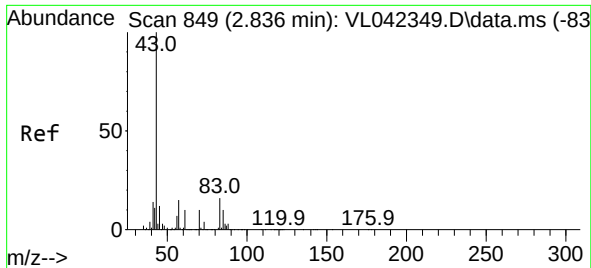
Reviewed By :Semsettin Yesilyurt 04/21/2025
 Supervised By :Mahesh Dadoda 04/21/2025



#24
 1,1-Dichloroethane
 Concen: 8.882 ppbv
 RT: 2.405 min Scan# 716
 Delta R.T. -0.003 min
 Lab File: VL042385.D
 Acq: 18 Apr 2025 11:38

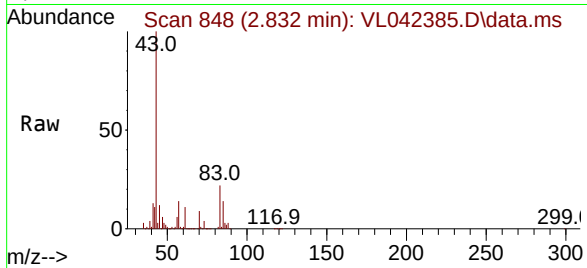
Tgt Ion: 63 Resp: 169635
 Ion Ratio Lower Upper
 63 100
 98 3.5 2.3 6.8
 100 2.8 1.6 4.8





#25
Ethyl Acetate
Concen: 7.672 ppbv
RT: 2.832 min Scan# 84
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

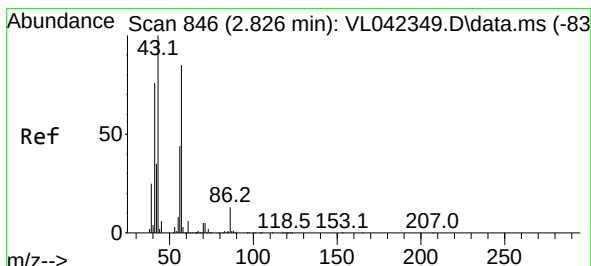
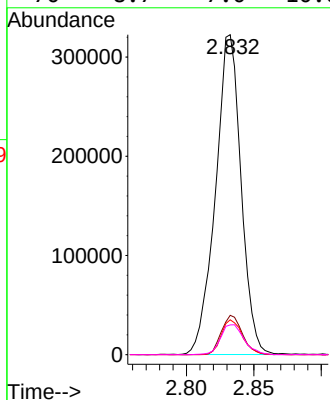
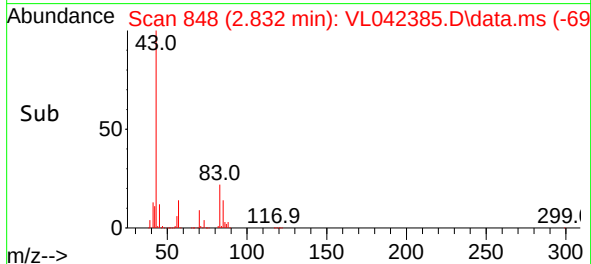
Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01



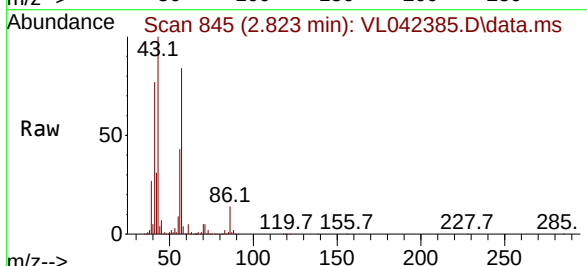
Tgt Ion: 43 Resp: 42607
Ion Ratio Lower Upper
43 100
45 10.2 8.3 12.5
61 9.1 7.3 10.9
70 8.7 7.0 10.6

Manual Integrations
APPROVED

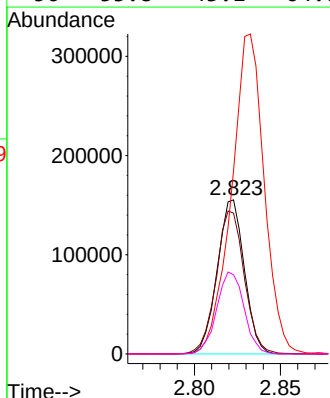
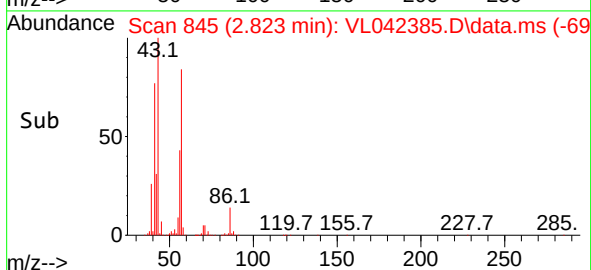
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

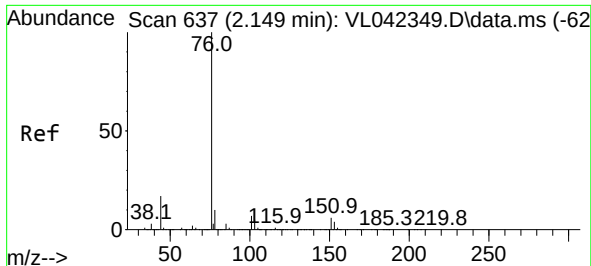


#26
Hexane
Concen: 7.570 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38



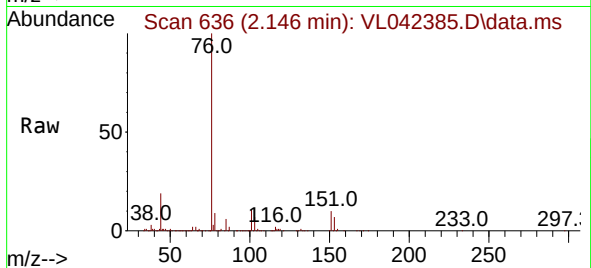
Tgt Ion: 57 Resp: 170131
Ion Ratio Lower Upper
57 100
41 97.1 77.9 116.9
43 251.0 208.4 312.6
56 53.8 43.1 64.7





#27
Carbon Disulfide
Concen: 8.676 ppbv
RT: 2.146 min Scan# 61
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

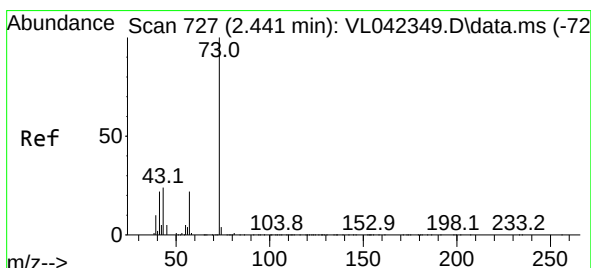
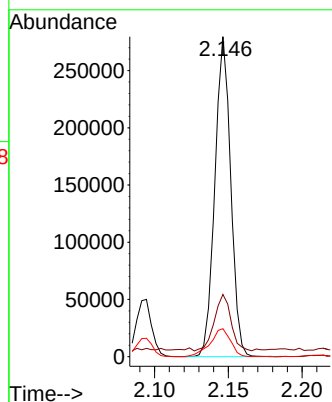
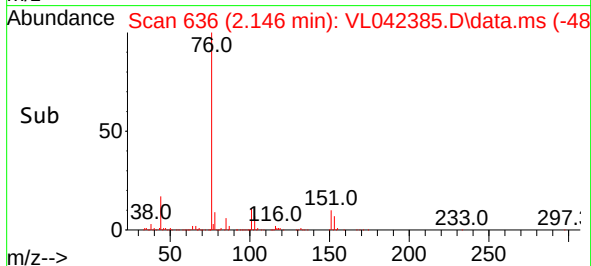
Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01



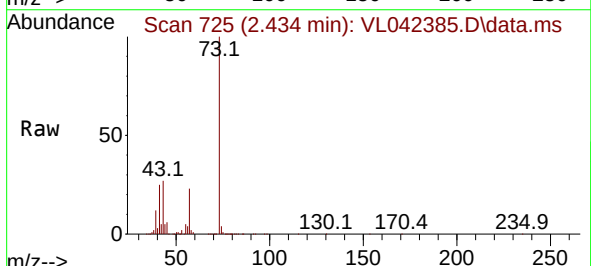
Tgt Ion: 76 Resp: 208760
Ion Ratio Lower Upper
76 100
44 17.8 15.5 23.3
78 11.3 9.3 13.9

Manual Integrations
APPROVED

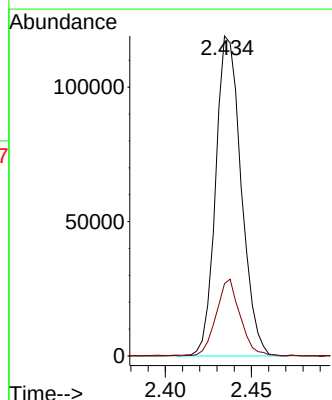
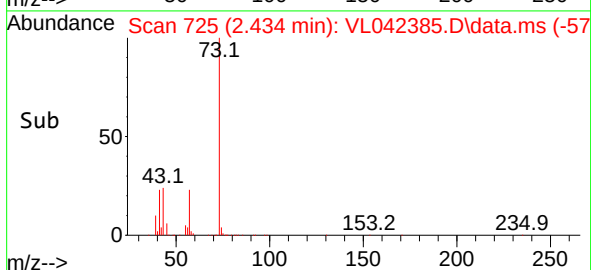
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

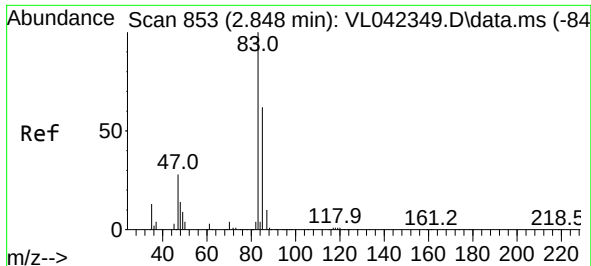


#28
Methyl tert-Butyl Ether
Concen: 8.345 ppbv
RT: 2.434 min Scan# 725
Delta R.T. -0.006 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38



Tgt Ion: 73 Resp: 122891
Ion Ratio Lower Upper
73 100
57 22.9 21.3 31.9





#29

Chloroform

Concen: 9.131 ppbv

RT: 2.845 min Scan# 81

Delta R.T. -0.003 min

Lab File: VL042385.D

Acq: 18 Apr 2025 11:38

Instrument :

MSVOA_L

ClientSampleId :

VL0418ABS01

Tgt Ion: 83 Resp: 290070

Ion Ratio Lower Upper

83 100

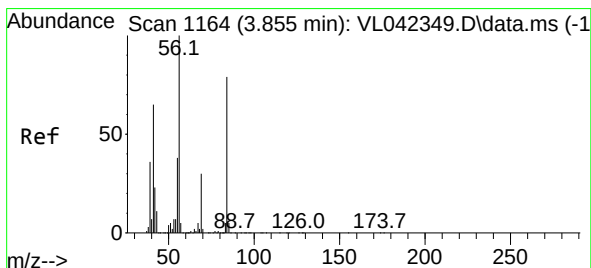
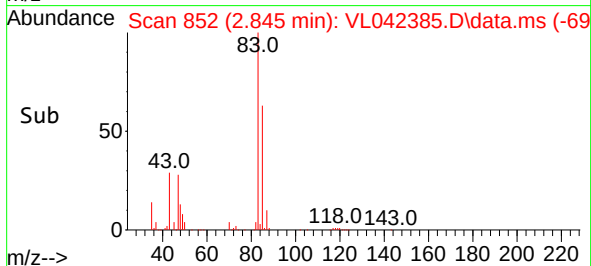
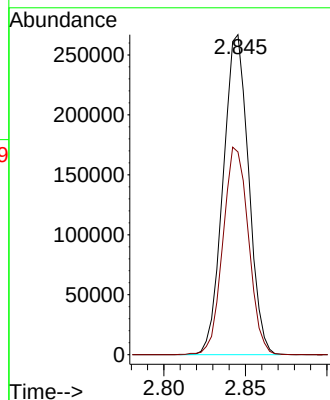
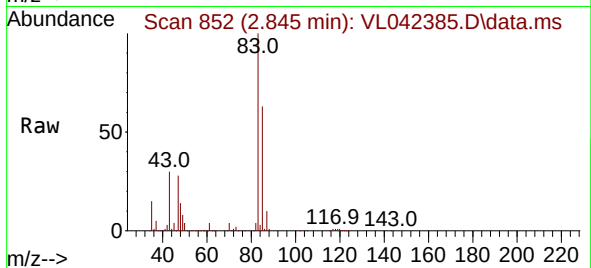
85 63.2 50.0 75.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2025

Supervised By :Mahesh Dadoda 04/21/2025



#30

Cyclohexane

Concen: 8.129 ppbv

RT: 3.849 min Scan# 1162

Delta R.T. -0.006 min

Lab File: VL042385.D

Acq: 18 Apr 2025 11:38

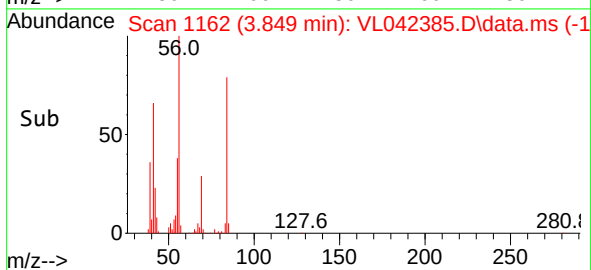
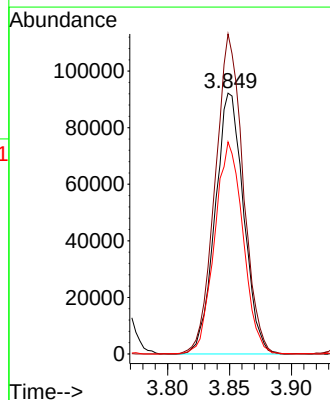
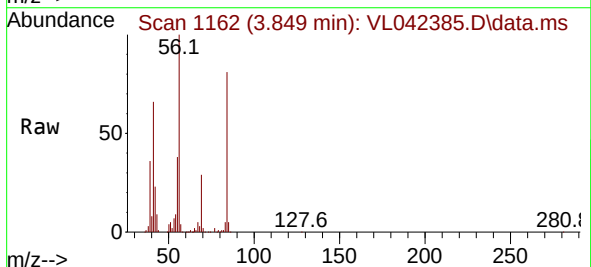
Tgt Ion: 84 Resp: 147689

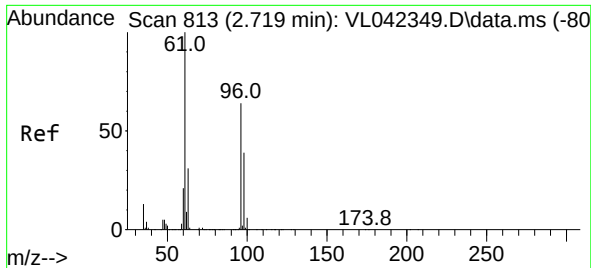
Ion Ratio Lower Upper

84 100

56 120.4 101.0 151.4

41 81.3 67.4 101.0





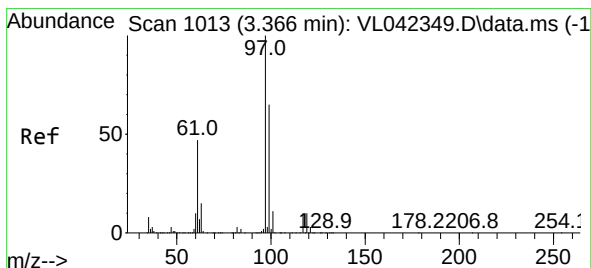
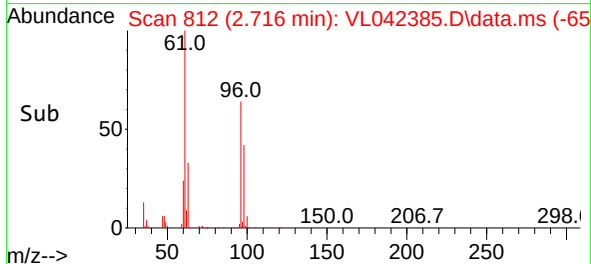
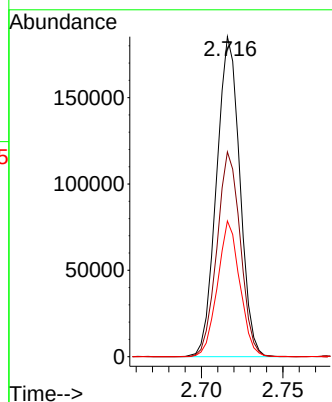
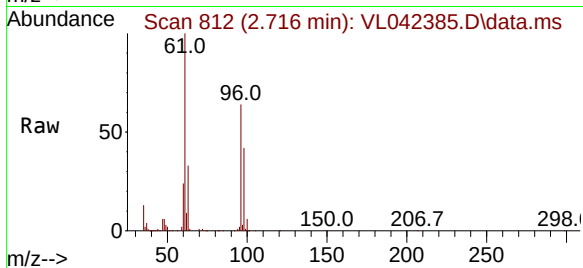
#31
 cis-1,2-Dichloroethene
 Concen: 8.615 ppbv
 RT: 2.716 min Scan# 813
 Delta R.T. -0.003 min
 Lab File: VL042385.D
 Acq: 18 Apr 2025 11:38

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0418ABS01

Tgt Ion: 61 Resp: 18408
 Ion Ratio Lower Upper
 61 100
 96 64.0 50.8 76.2
 98 42.4 30.9 46.3

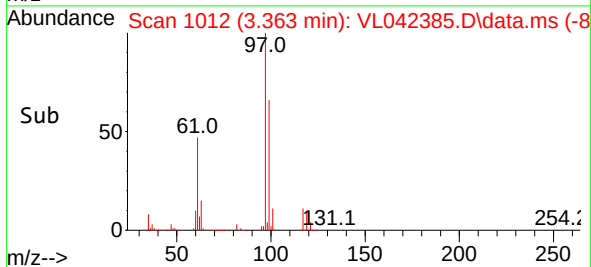
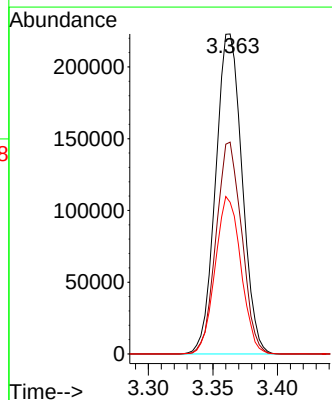
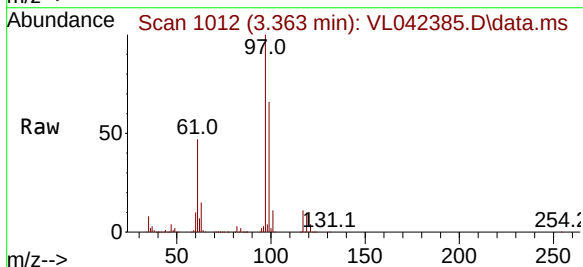
Manual Integrations
 APPROVED

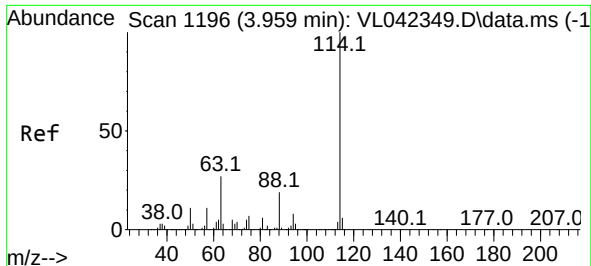
Reviewed By :Semsettin Yesilyurt 04/21/2025
 Supervised By :Mahesh Dadoda 04/21/2025



#32
 1,1,1-Trichloroethane
 Concen: 8.882 ppbv
 RT: 3.363 min Scan# 1012
 Delta R.T. -0.003 min
 Lab File: VL042385.D
 Acq: 18 Apr 2025 11:38

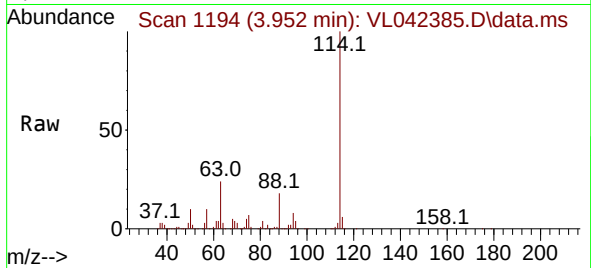
Tgt Ion: 97 Resp: 317651
 Ion Ratio Lower Upper
 97 100
 99 64.2 51.0 76.4
 61 48.0 38.8 58.2





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. -0.006 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

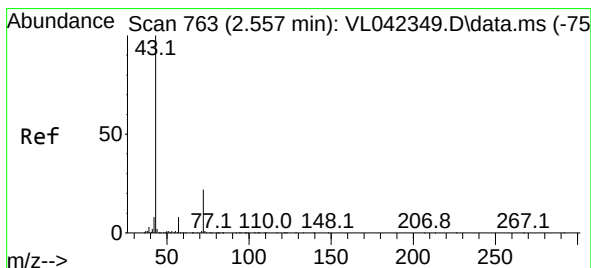
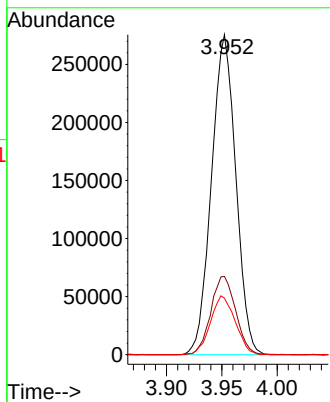
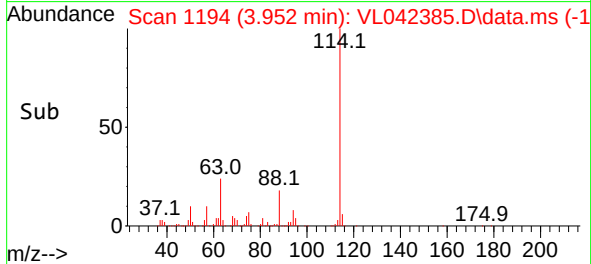
Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01



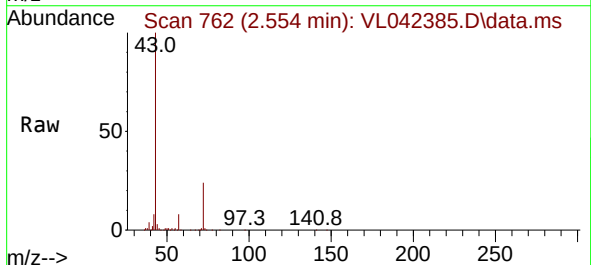
Tgt Ion:114 Resp: 421834
Ion Ratio Lower Upper
114 100
63 25.0 21.8 32.6
88 18.7 15.5 23.3

Manual Integrations
APPROVED

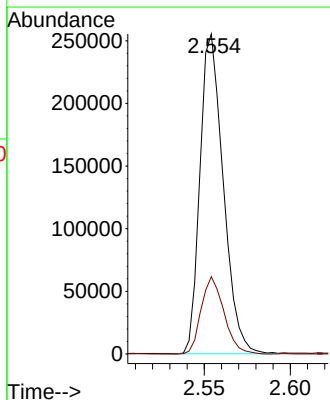
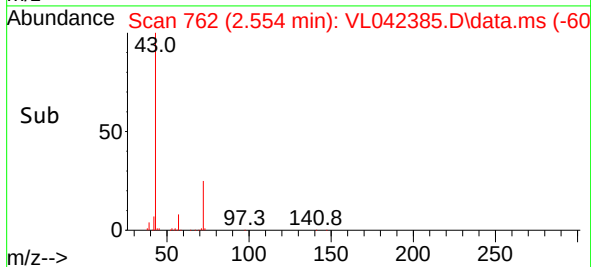
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

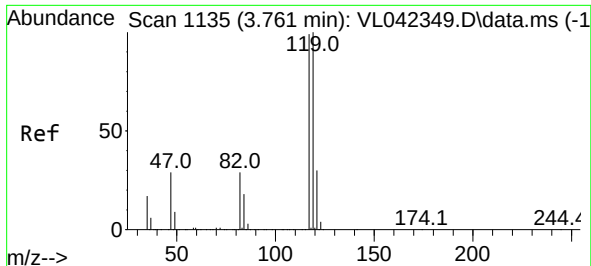


#34
2-Butanone
Concen: 7.208 ppbv
RT: 2.554 min Scan# 762
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38



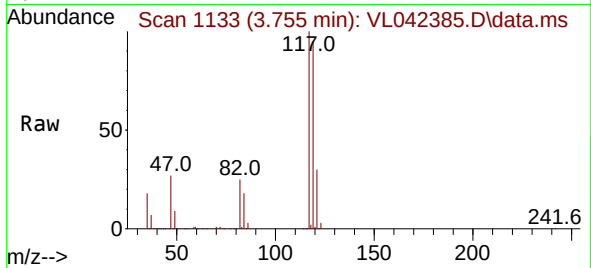
Tgt Ion: 43 Resp: 240467
Ion Ratio Lower Upper
43 100
72 23.6 18.2 27.2





#35
Carbon Tetrachloride
Concen: 8.556 ppbv
RT: 3.755 min Scan# 1133
Delta R.T. -0.006 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

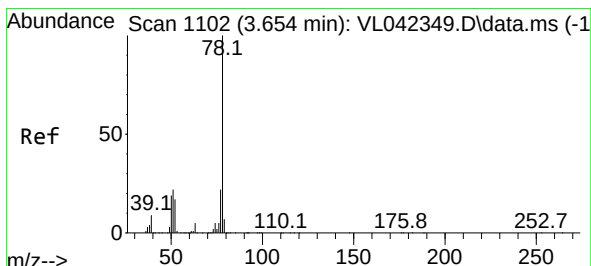
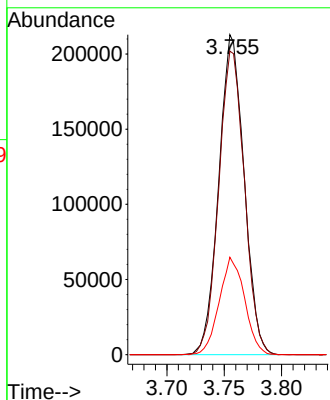
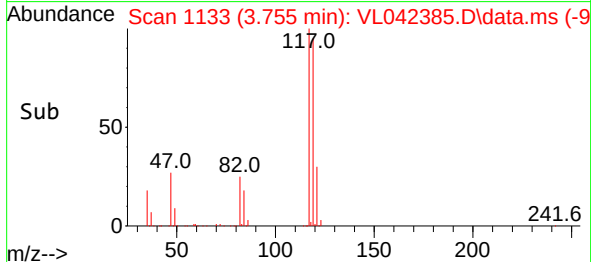
Instrument : MSVOA_L
ClientSampleId : VL0418ABS01



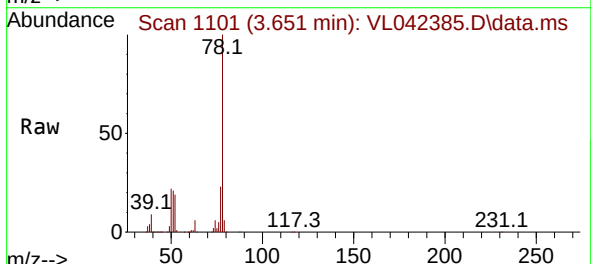
Tgt Ion:117 Resp: 326652
Ion Ratio Lower Upper
117 100
119 94.8 80.5 120.7
121 30.4 24.2 36.2

Manual Integrations
APPROVED

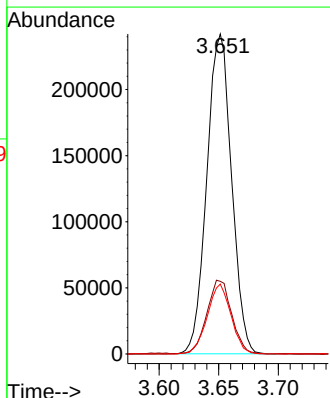
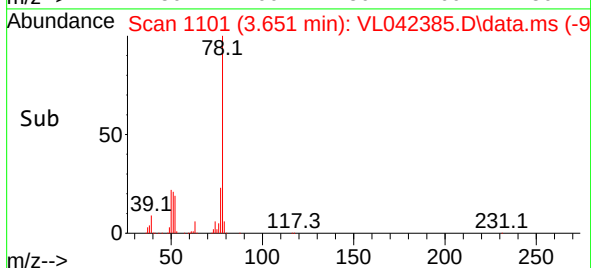
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

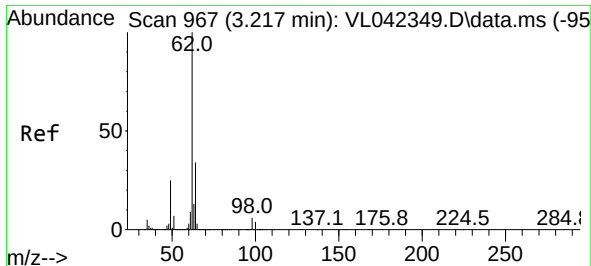


#36
Benzene
Concen: 7.683 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38



Tgt Ion: 78 Resp: 349571
Ion Ratio Lower Upper
78 100
77 22.7 17.4 26.0
50 21.8 15.5 23.3





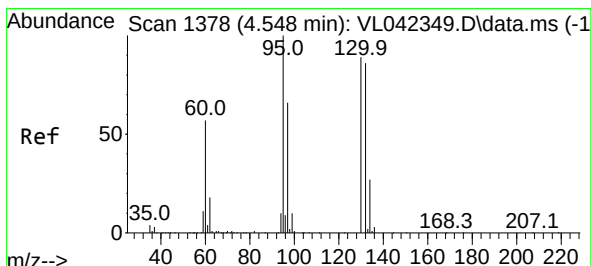
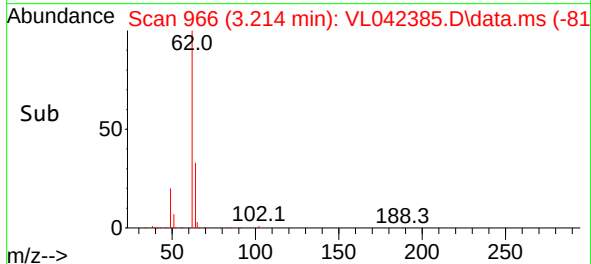
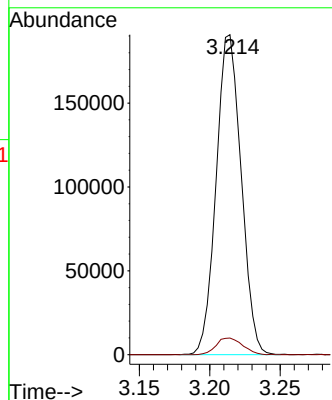
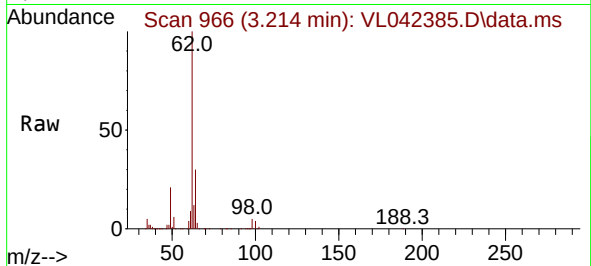
#37
1,2-Dichloroethane
Concen: 8.650 ppbv
RT: 3.214 min Scan# 90
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Tgt Ion: 62 Resp: 23622
Ion Ratio Lower Upper
62 100
98 5.5 5.1 7.7

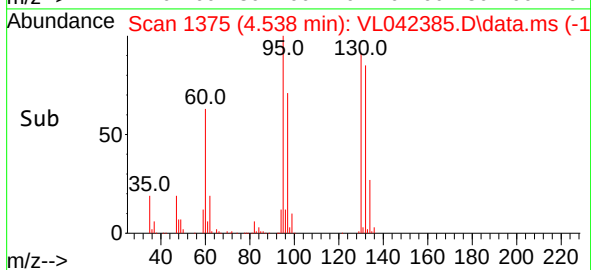
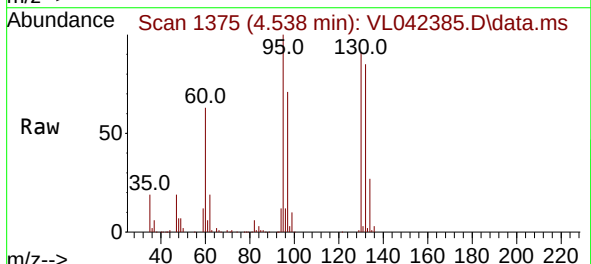
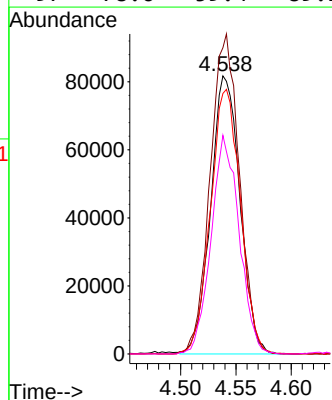
Manual Integrations
APPROVED

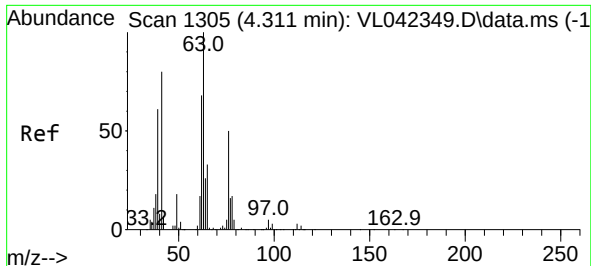
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025



#38
Trichloroethene
Concen: 7.561 ppbv
RT: 4.538 min Scan# 1375
Delta R.T. -0.010 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion:130 Resp: 150355
Ion Ratio Lower Upper
130 100
95 110.0 89.8 134.6
132 93.4 77.7 116.5
97 78.6 59.4 89.2





#39

1,2-Dichloropropane

Concen: 7.229 ppbv

RT: 4.305 min Scan# 1305

Delta R.T. -0.006 min

Lab File: VL042385.D

Acq: 18 Apr 2025 11:38

Instrument :

MSVOA_L

ClientSampleId :

VL0418ABS01

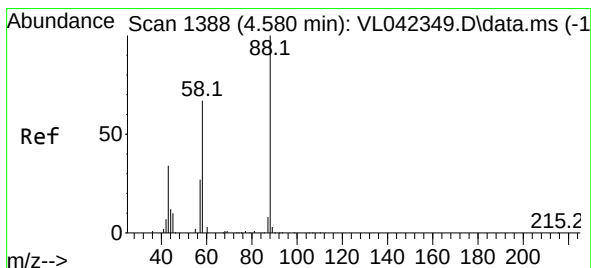
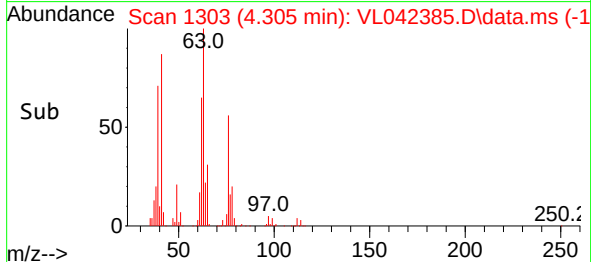
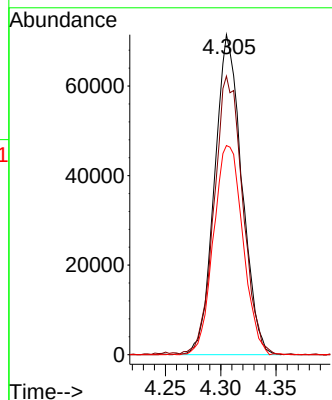
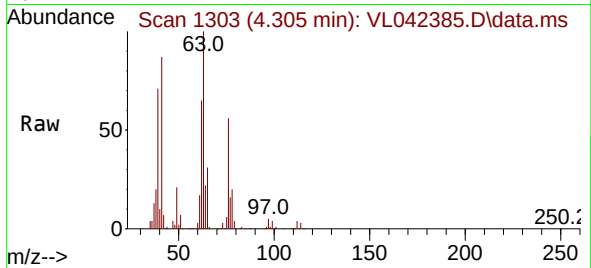
Tgt Ion: 63 Resp: 12257

Ion	Ratio	Lower	Upper
63	100		
41	86.9	64.2	96.2
62	65.3	54.3	81.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025



#40

1,4-Dioxane

Concen: 6.819 ppbv

RT: 4.577 min Scan# 1387

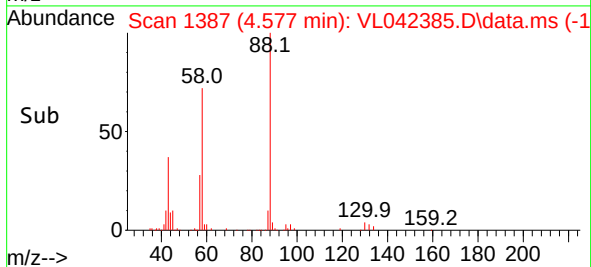
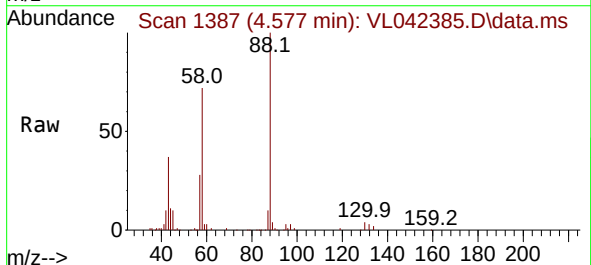
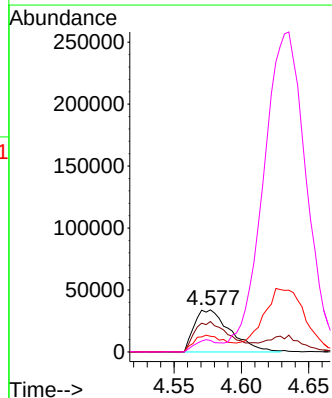
Delta R.T. -0.003 min

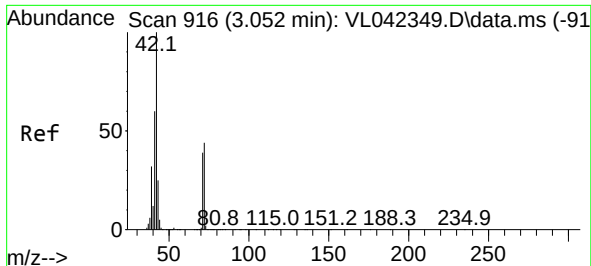
Lab File: VL042385.D

Acq: 18 Apr 2025 11:38

Tgt Ion: 88 Resp: 63539

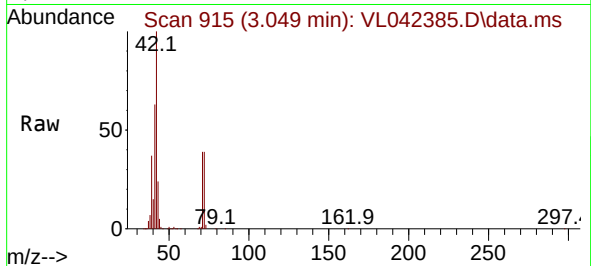
Ion	Ratio	Lower	Upper
88	100		
58	70.2	61.4	92.0
43	36.0	23.2	34.8
57	0.0	0.0	0.0





#41
Tetrahydrofuran
Concen: 6.885 ppbv
RT: 3.049 min Scan# 916
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

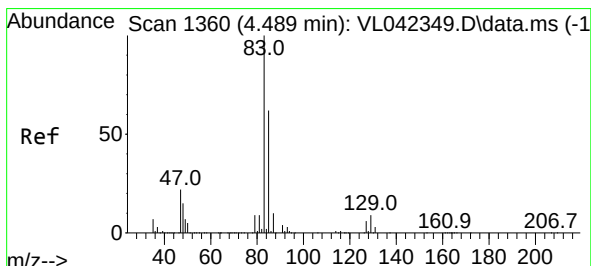
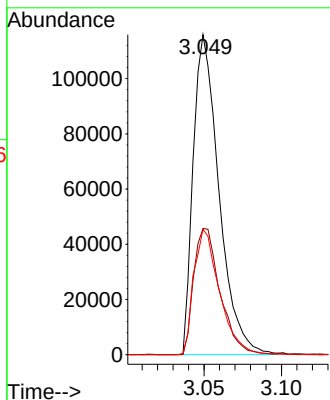
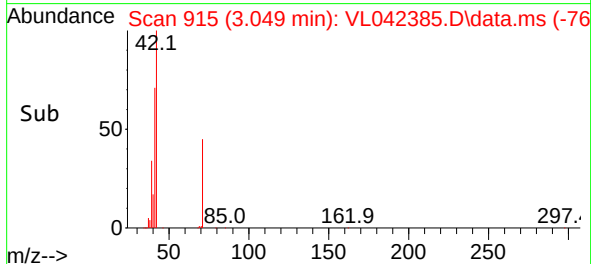
Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01



Tgt Ion: 42 Resp: 133932
Ion Ratio Lower Upper
42 100
72 40.5 32.3 48.5
71 39.3 31.4 47.2

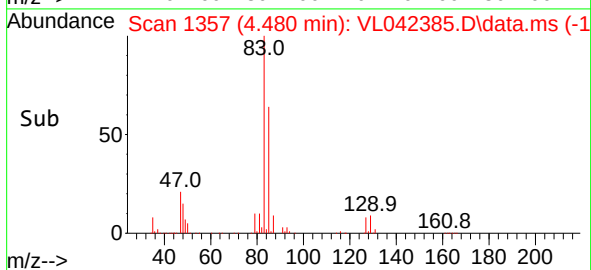
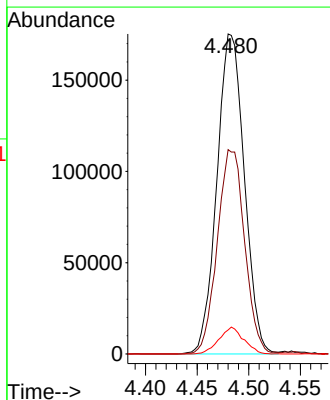
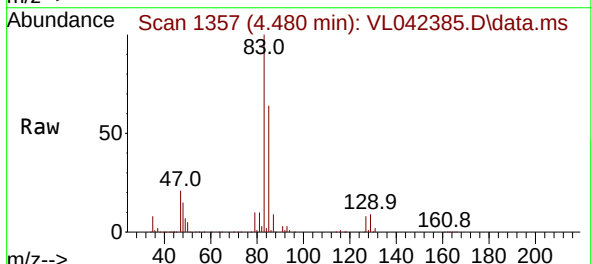
Manual Integrations
APPROVED

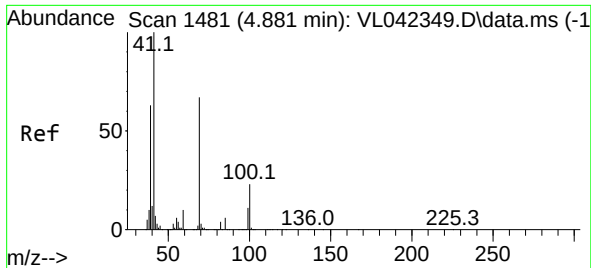
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025



#42
Bromodichloromethane
Concen: 8.535 ppbv
RT: 4.480 min Scan# 1357
Delta R.T. -0.010 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

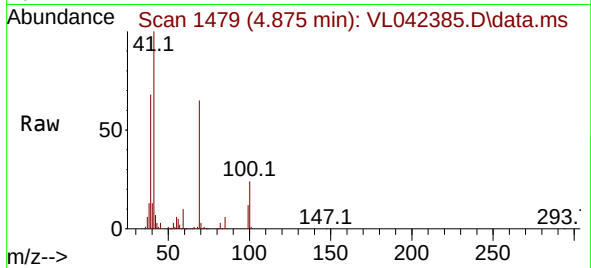
Tgt Ion: 83 Resp: 324378
Ion Ratio Lower Upper
83 100
85 63.9 49.7 74.5
127 7.5 5.1 7.7





#43
Methyl Methacrylate
Concen: 6.925 ppbv
RT: 4.875 min Scan# 1405
Delta R.T. -0.006 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

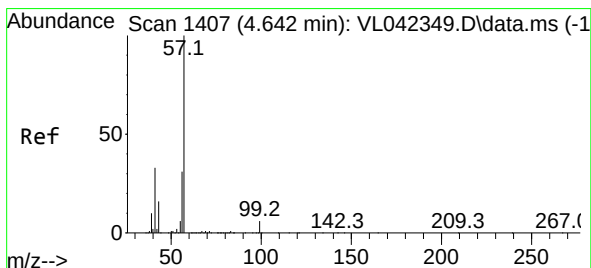
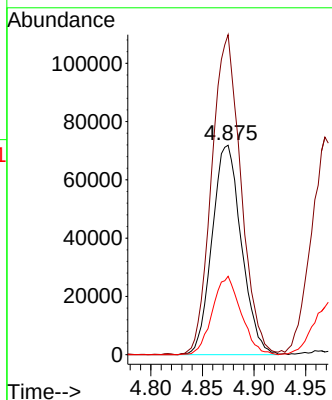
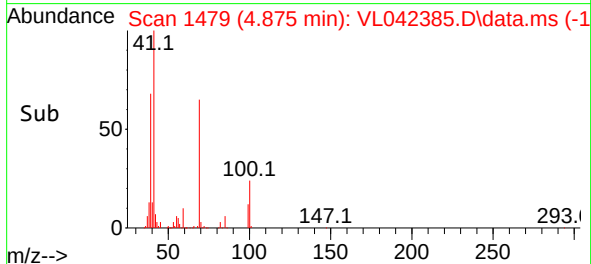
Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01



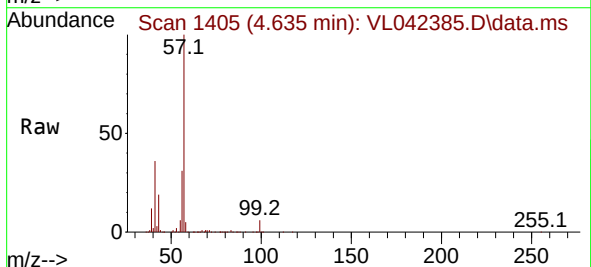
Tgt Ion: 69 Resp: 142000
Ion Ratio Lower Upper
69 100
41 152.1 118.6 177.8
100 36.5 28.2 42.2

Manual Integrations
APPROVED

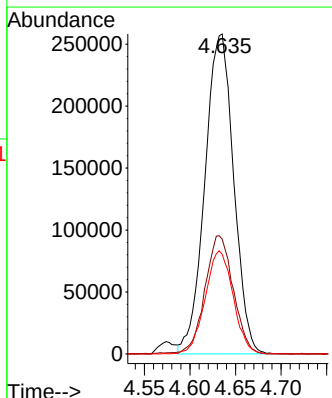
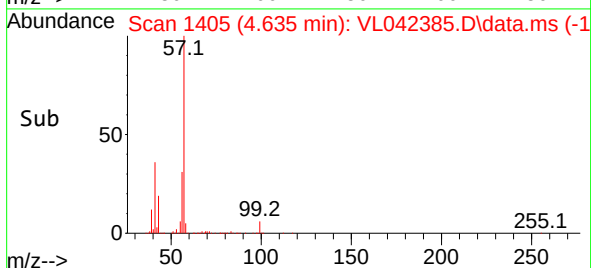
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

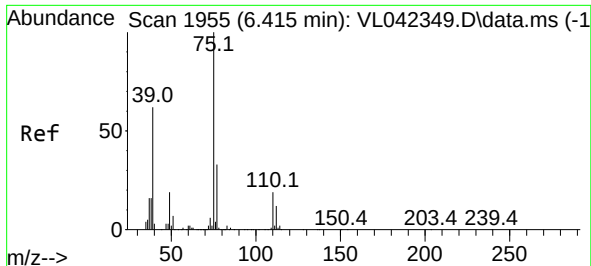


#44
2,2,4-Trimethylpentane
Concen: 7.223 ppbv
RT: 4.635 min Scan# 1405
Delta R.T. -0.006 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38



Tgt Ion: 57 Resp: 567587
Ion Ratio Lower Upper
57 100
41 36.5 27.2 40.8
56 31.4 25.7 38.5





#45

t-1,3-Dichloropropene

Concen: 7.601 ppbv

RT: 6.406 min Scan# 1955

Delta R.T. -0.010 min

Lab File: VL042385.D

Acq: 18 Apr 2025 11:38

Instrument :

MSVOA_L

ClientSampleId :

VL0418ABS01

Tgt Ion: 75 Resp: 159210

Ion Ratio Lower Upper

75 100

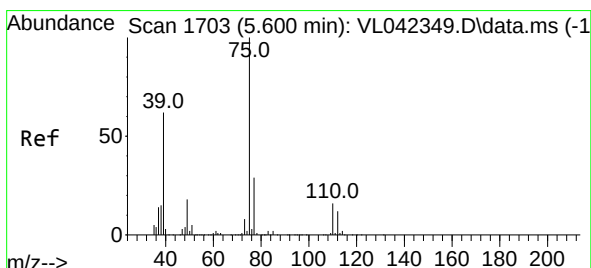
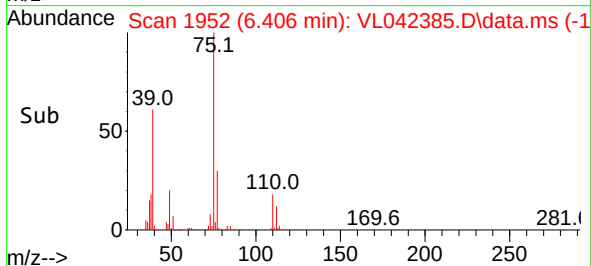
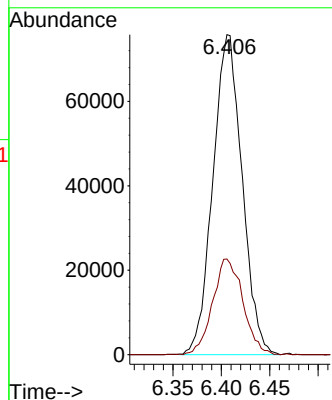
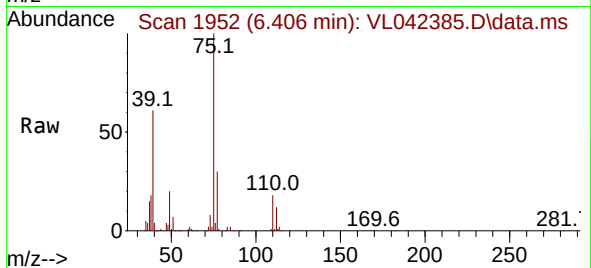
77 29.9 27.0 40.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2025

Supervised By :Mahesh Dadoda 04/21/2025



#46

cis-1,3-Dichloropropene

Concen: 7.523 ppbv

RT: 5.590 min Scan# 1700

Delta R.T. -0.010 min

Lab File: VL042385.D

Acq: 18 Apr 2025 11:38

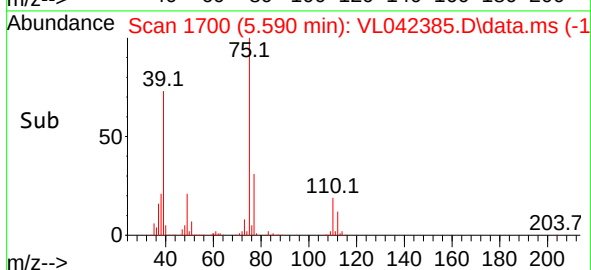
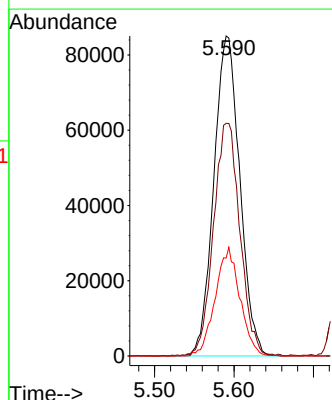
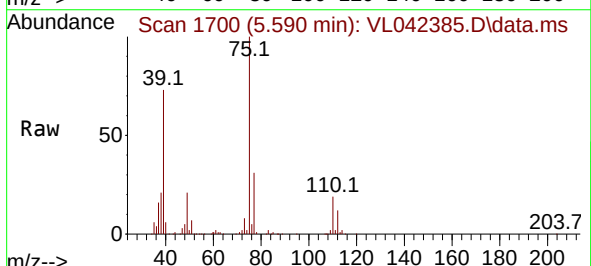
Tgt Ion: 75 Resp: 192875

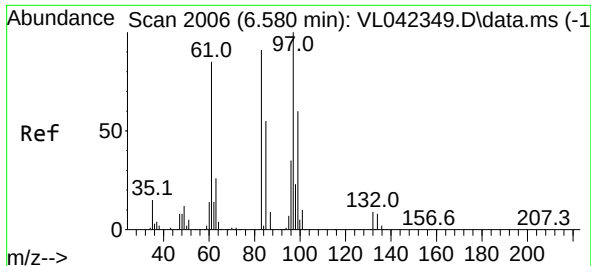
Ion Ratio Lower Upper

75 100

39 72.6 50.0 75.0

77 30.6 23.0 34.6





#47

1,1,2-Trichloroethane

Concen: 8.163 ppbv

RT: 6.574 min Scan# 2006

Delta R.T. -0.006 min

Lab File: VL042385.D

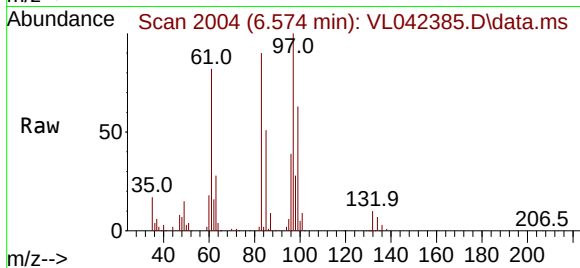
Acq: 18 Apr 2025 11:38

Instrument :

MSVOA_L

ClientSampleId :

VL0418ABS01



Tgt Ion: 97 Resp: 141009

Ion Ratio Lower Upper

97 100

83 89.5 72.8 109.2

85 51.5 44.2 66.4

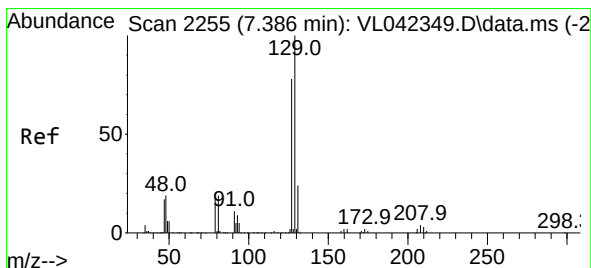
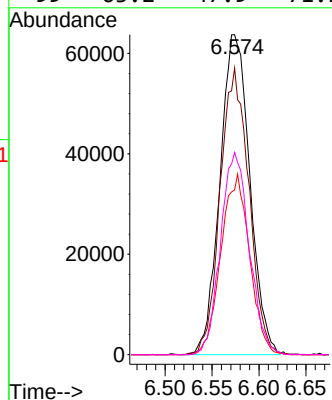
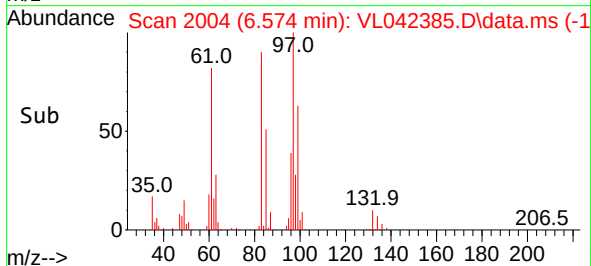
99 63.2 47.9 71.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2025

Supervised By :Mahesh Dadoda 04/21/2025



#48

Dibromochloromethane

Concen: 8.756 ppbv

RT: 7.380 min Scan# 2253

Delta R.T. -0.006 min

Lab File: VL042385.D

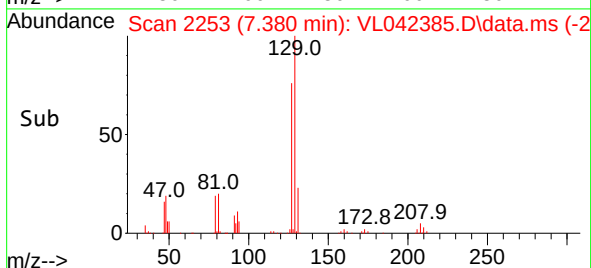
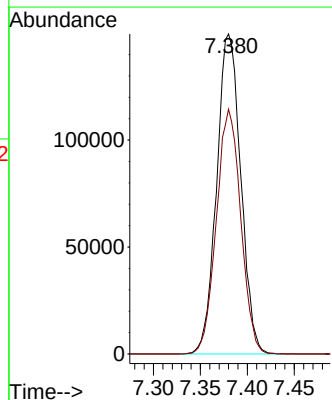
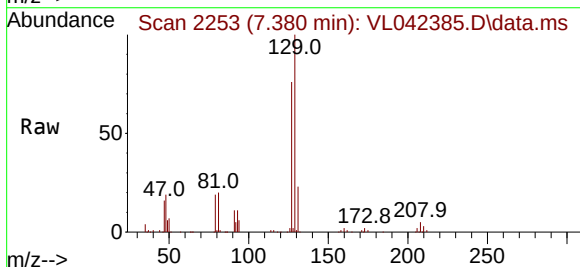
Acq: 18 Apr 2025 11:38

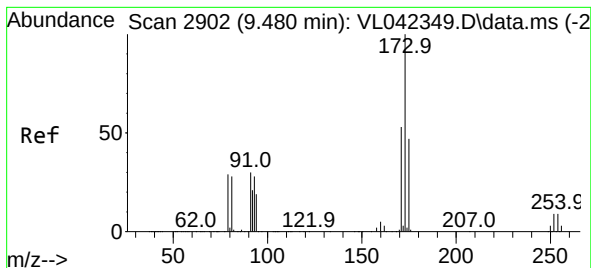
Tgt Ion:129 Resp: 267219

Ion Ratio Lower Upper

129 100

127 77.3 39.1 117.3





#49

Bromoform

Concen: 8.823 ppbv

RT: 9.477 min Scan# 2902

Delta R.T. -0.003 min

Lab File: VL042385.D

Acq: 18 Apr 2025 11:38

Instrument :

MSVOA_L

ClientSampleId :

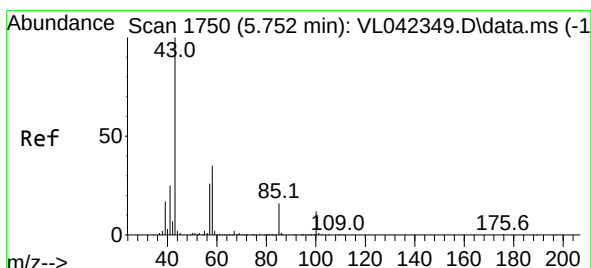
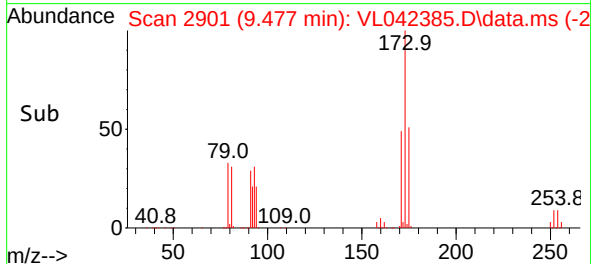
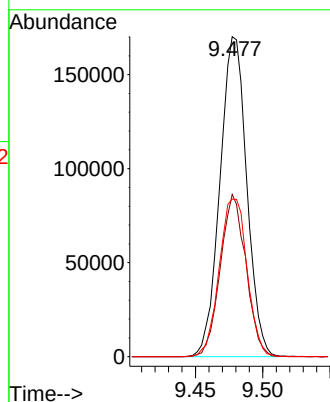
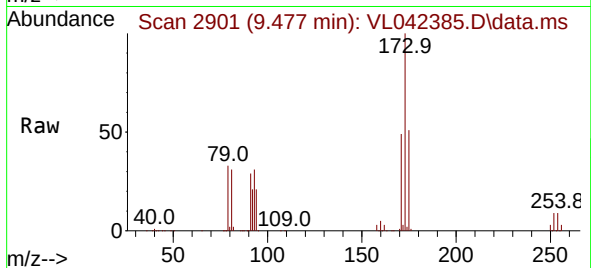
VL0418ABS01

Tgt Ion:173 Resp: 23545
 Ion Ratio Lower Upper
 173 100
 175 48.4 38.2 57.2
 171 51.3 40.9 61.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2025
 Supervised By :Mahesh Dadoda 04/21/2025



#50

4-Methyl-2-Pentanone

Concen: 6.440 ppbv

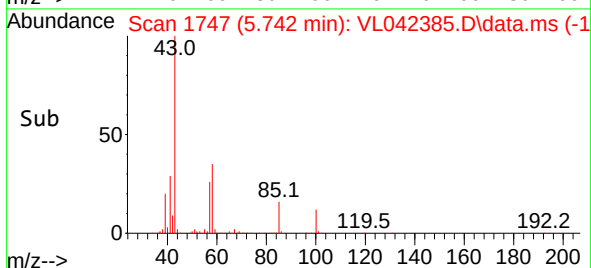
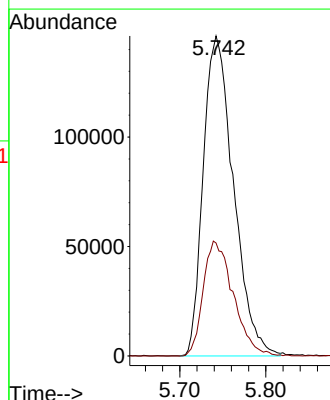
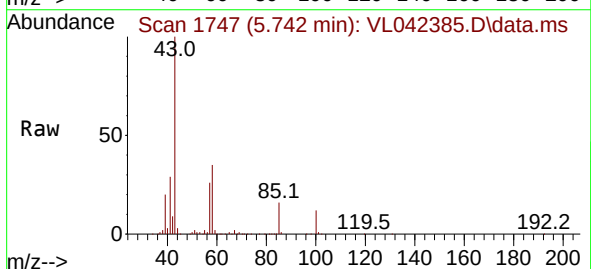
RT: 5.742 min Scan# 1747

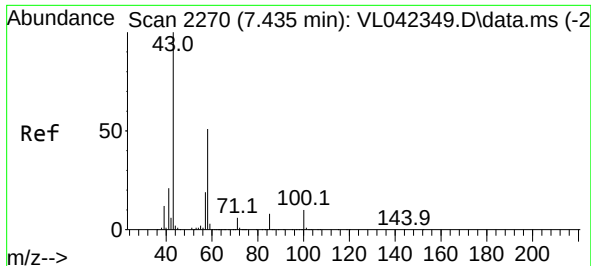
Delta R.T. -0.010 min

Lab File: VL042385.D

Acq: 18 Apr 2025 11:38

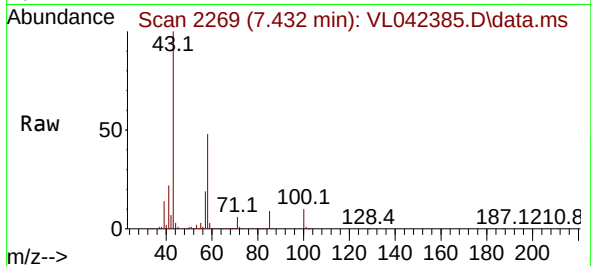
Tgt Ion: 43 Resp: 357049
 Ion Ratio Lower Upper
 43 100
 58 35.8 28.6 43.0





#51
2-Hexanone
Concen: 5.729 ppbv
RT: 7.432 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

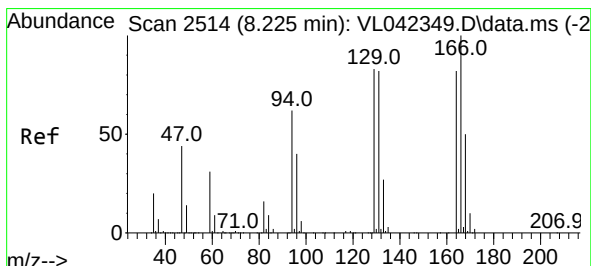
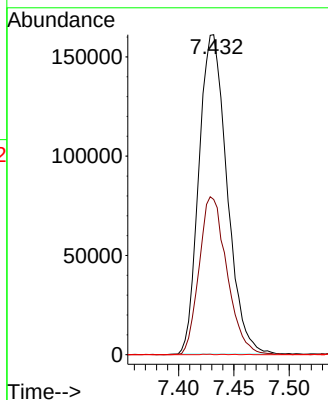
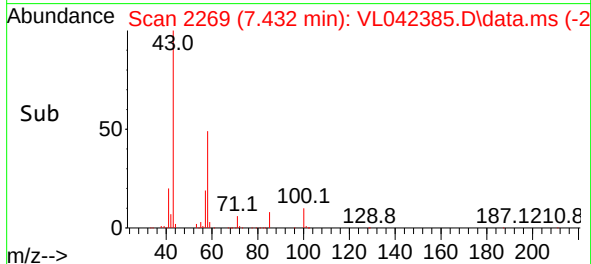
Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01



Tgt Ion: 43 Resp: 284839
Ion Ratio Lower Upper
43 100
58 48.9 40.2 60.4
98 0.1 0.1 0.1

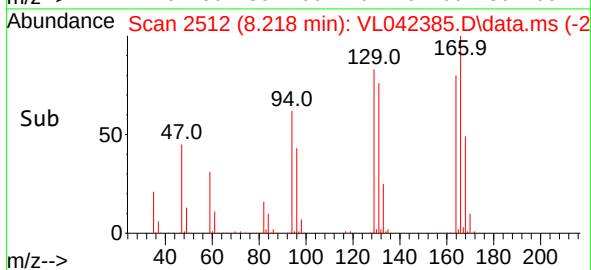
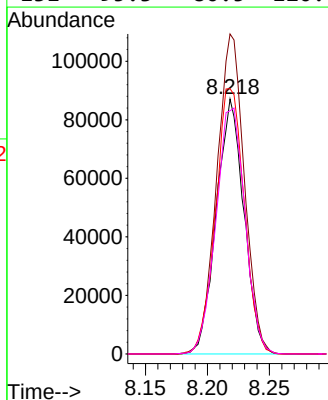
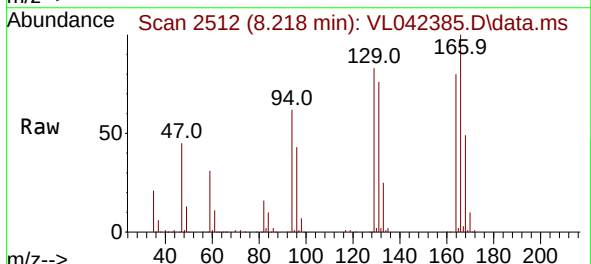
Manual Integrations
APPROVED

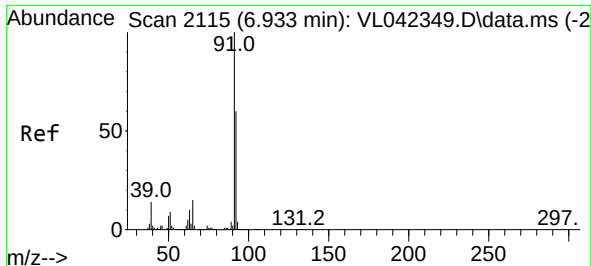
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025



#52
Tetrachloroethene
Concen: 7.663 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. -0.006 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion:164 Resp: 134768
Ion Ratio Lower Upper
164 100
166 125.6 98.2 147.2
129 104.1 81.8 122.8
131 95.3 80.5 120.7





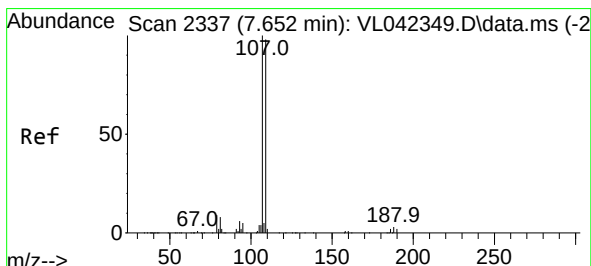
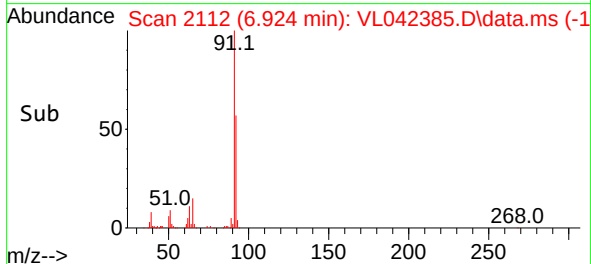
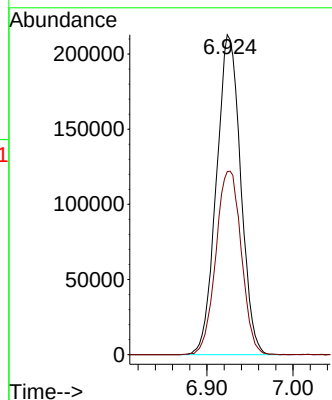
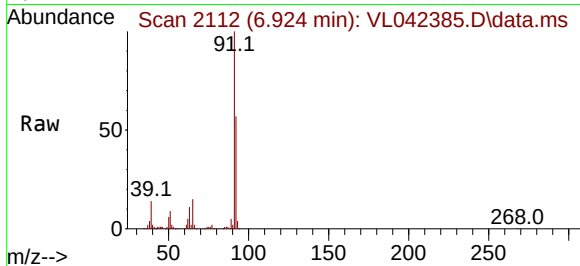
#53
Toluene
Concen: 7.627 ppbv
RT: 6.924 min Scan# 2112
Delta R.T. -0.010 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Tgt Ion: 91 Resp: 416429
Ion Ratio Lower Upper
91 100
92 60.2 48.2 72.4

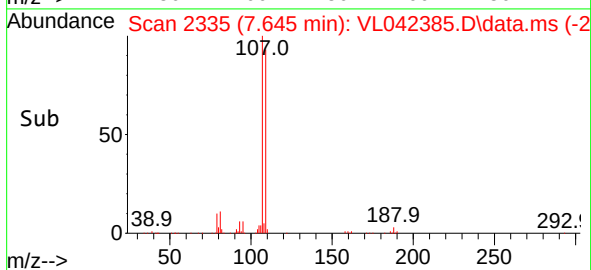
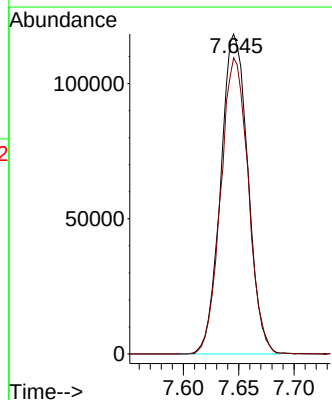
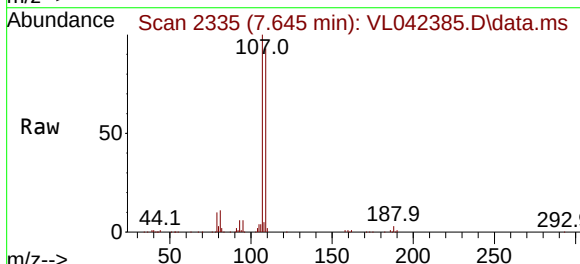
Manual Integrations
APPROVED

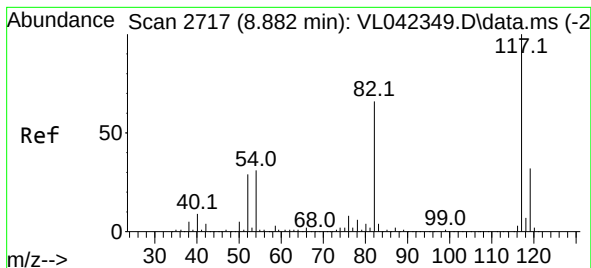
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025



#54
1,2-Dibromoethane
Concen: 8.204 ppbv
RT: 7.645 min Scan# 2335
Delta R.T. -0.006 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion:107 Resp: 202809
Ion Ratio Lower Upper
107 100
109 92.5 78.2 117.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.875 min Scan# 2715

Delta R.T. -0.006 min

Lab File: VL042385.D

Acq: 18 Apr 2025 11:38

Instrument :

MSVOA_L

ClientSampleId :

VL0418ABS01

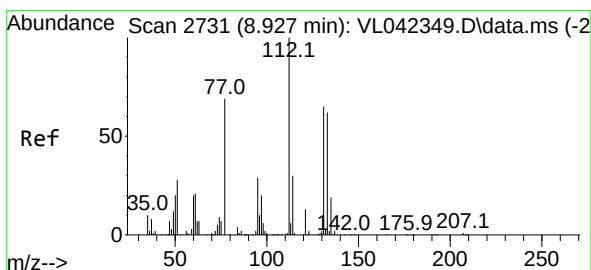
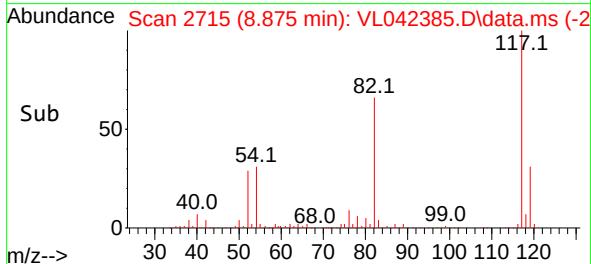
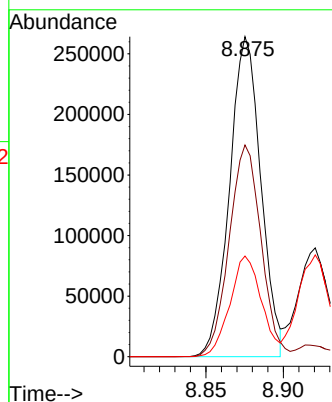
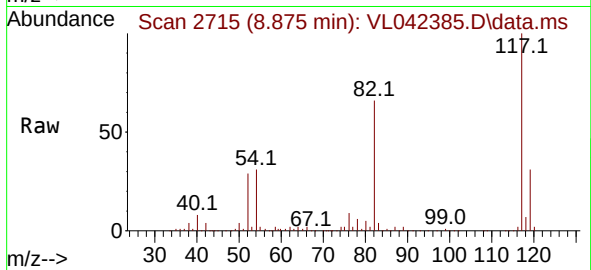
Tgt Ion:117 Resp: 371540

Ion	Ratio	Lower	Upper
117	100		
82	71.0	57.8	86.6
119	32.7	25.2	37.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025



#56

1,1,1,2-Tetrachloroethane

Concen: 9.093 ppbv

RT: 8.917 min Scan# 2728

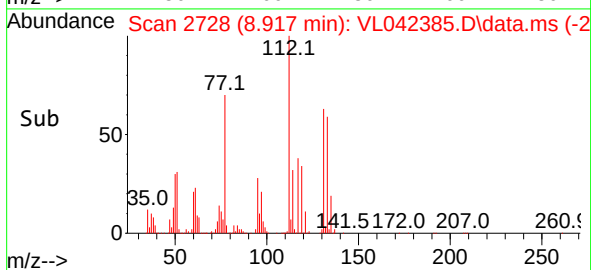
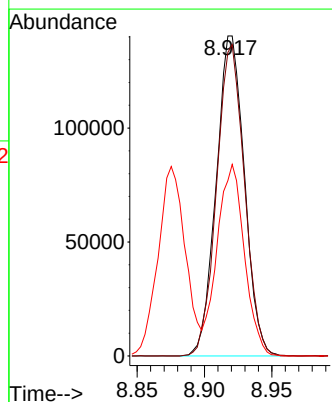
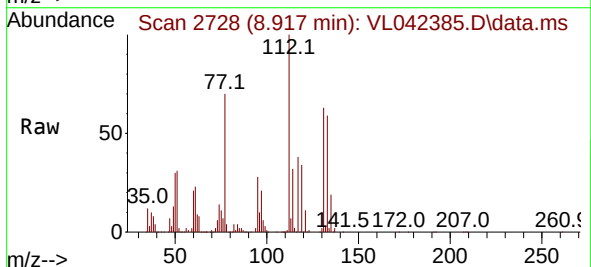
Delta R.T. -0.010 min

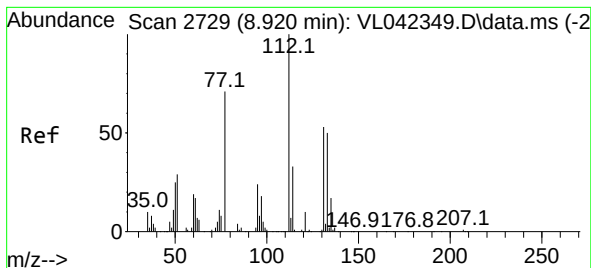
Lab File: VL042385.D

Acq: 18 Apr 2025 11:38

Tgt Ion:131 Resp: 204475

Ion	Ratio	Lower	Upper
131	100		
133	96.1	78.3	117.5
119	57.8	48.7	73.1





#57

Chlorobenzene

Concen: 8.438 ppbv

RT: 8.917 min Scan# 21

Delta R.T. -0.003 min

Lab File: VL042385.D

Acq: 18 Apr 2025 11:38

Instrument :

MSVOA_L

ClientSampleId :

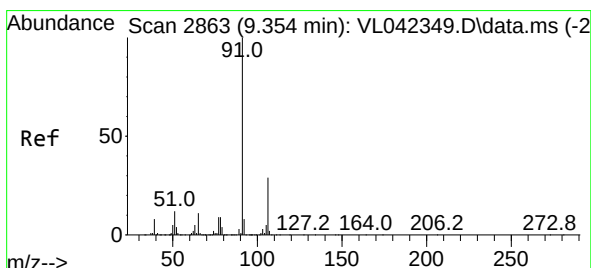
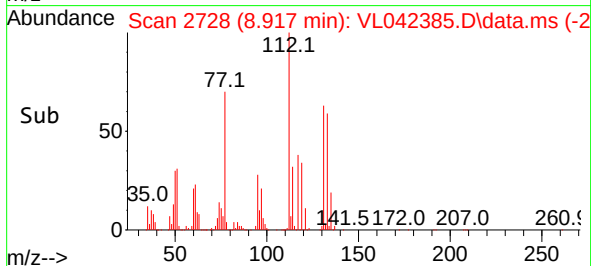
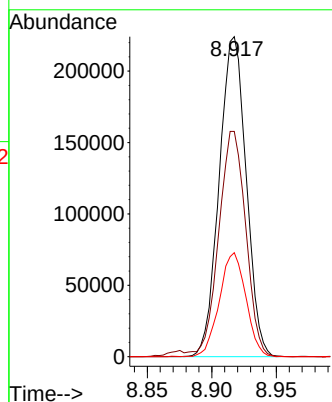
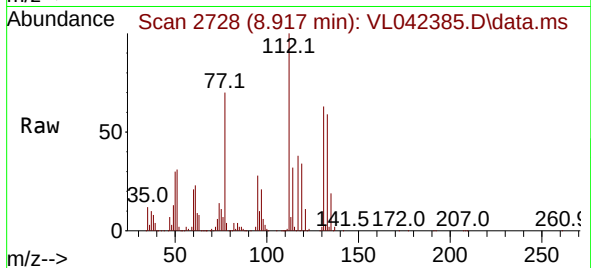
VL0418ABS01

Tgt Ion:112	Resp: 32607
Ion Ratio	Lower Upper
112 100	
77 70.2	57.8 86.6
114 32.5	29.3 35.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025



#58

Ethyl Benzene

Concen: 8.117 ppbv

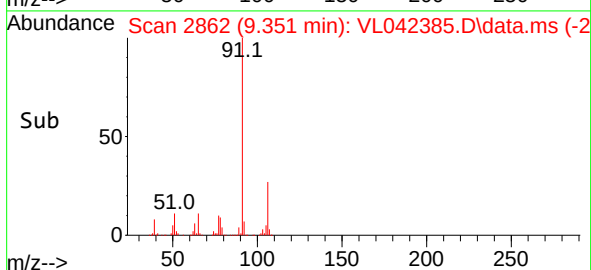
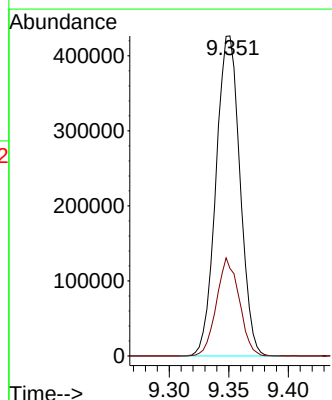
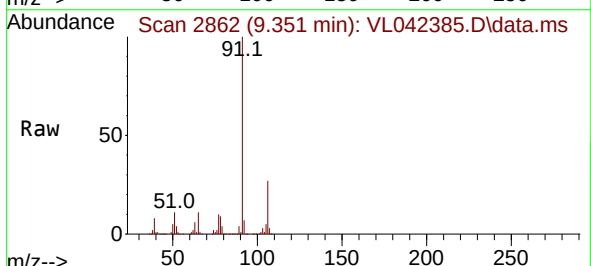
RT: 9.351 min Scan# 2862

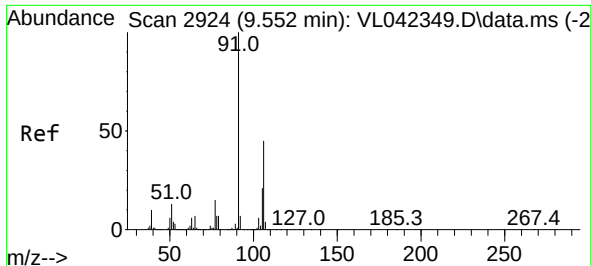
Delta R.T. -0.003 min

Lab File: VL042385.D

Acq: 18 Apr 2025 11:38

Tgt Ion: 91	Resp: 597552
Ion Ratio	Lower Upper
91 100	
106 27.3	23.0 34.4





#59

m/p-Xylene

Concen: 16.427 ppbv m

RT: 9.545 min Scan# 2924

Delta R.T. -0.006 min

Lab File: VL042385.D

Acq: 18 Apr 2025 11:38

Instrument :

MSVOA_L

ClientSampleId :

VL0418ABS01

Tgt Ion: 91 Resp: 974158

Ion Ratio Lower Upper

91 100

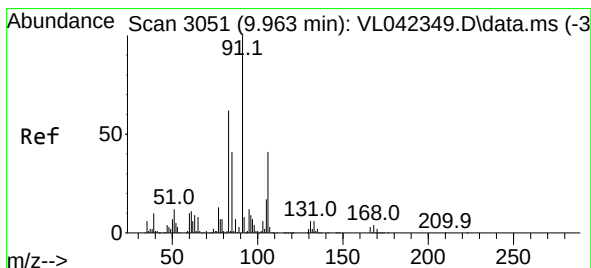
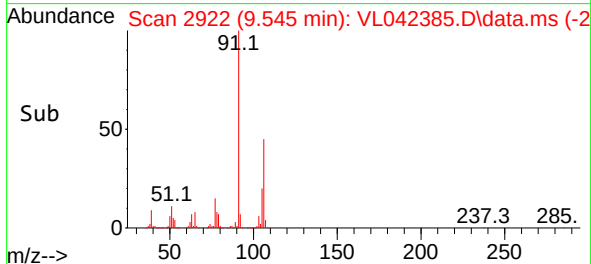
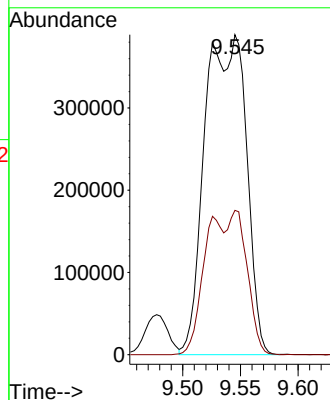
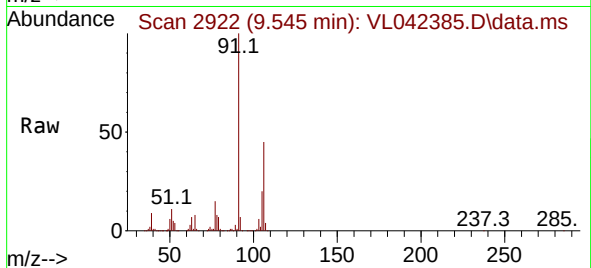
106 44.2 35.4 53.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2025

Supervised By :Mahesh Dadoda 04/21/2025



#60

o-Xylene

Concen: 8.203 ppbv

RT: 9.960 min Scan# 3050

Delta R.T. -0.003 min

Lab File: VL042385.D

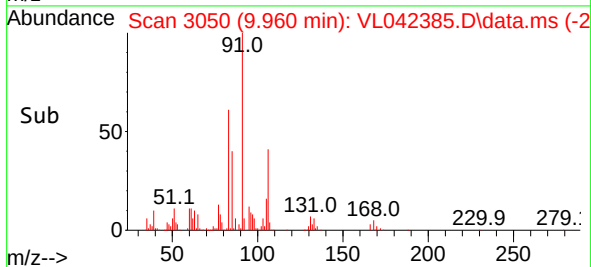
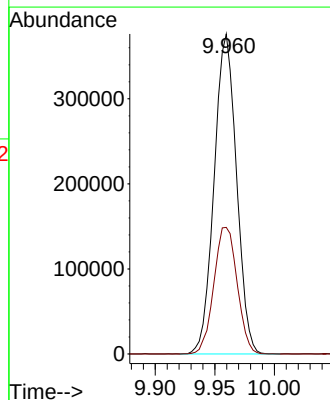
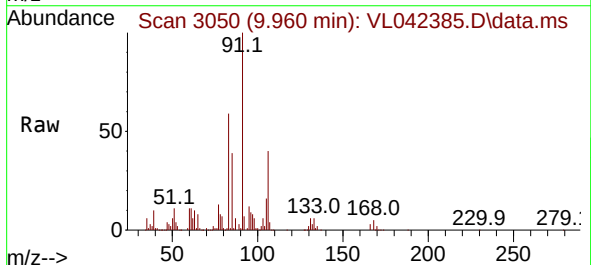
Acq: 18 Apr 2025 11:38

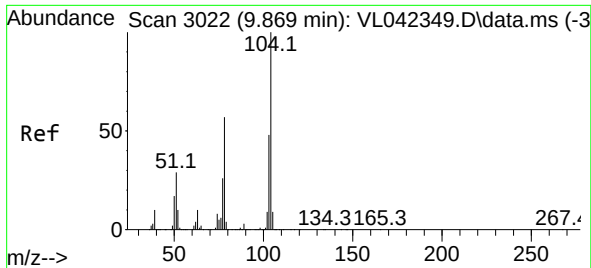
Tgt Ion: 91 Resp: 489890

Ion Ratio Lower Upper

91 100

106 41.3 21.1 63.4





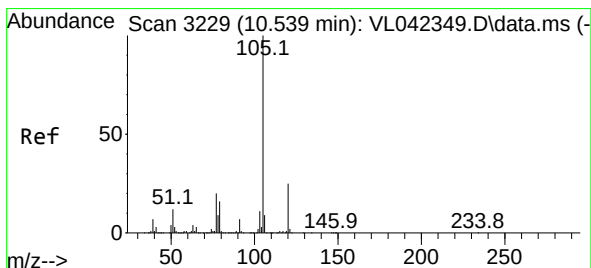
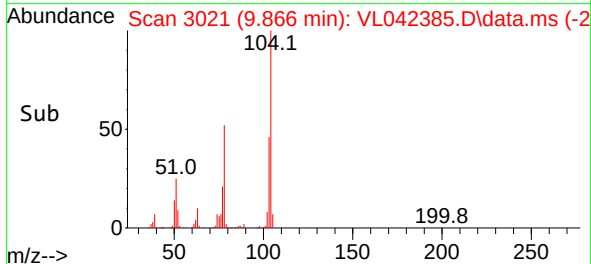
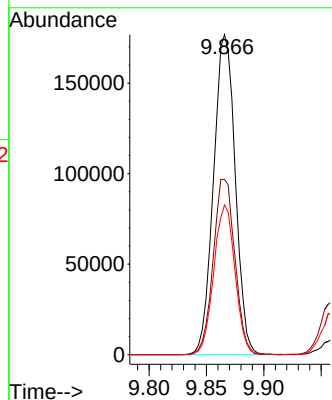
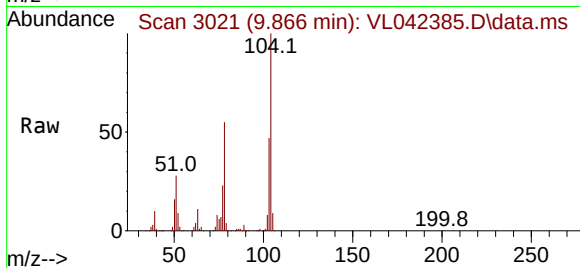
#61
Styrene
Concen: 8.173 ppbv
RT: 9.866 min Scan# 3022
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Instrument : MSVOA_L
ClientSampleId : VL0418ABS01

Tgt Ion:104 Resp: 232960
Ion Ratio Lower Upper
104 100
78 54.7 44.6 66.8
103 45.8 37.4 56.0

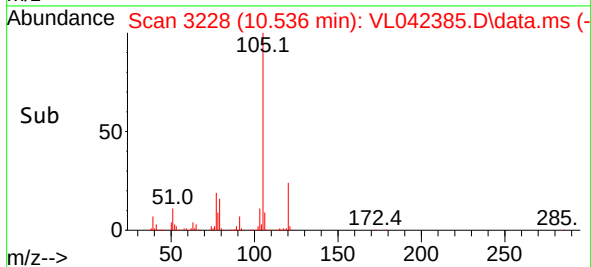
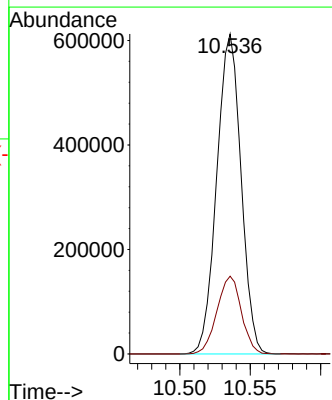
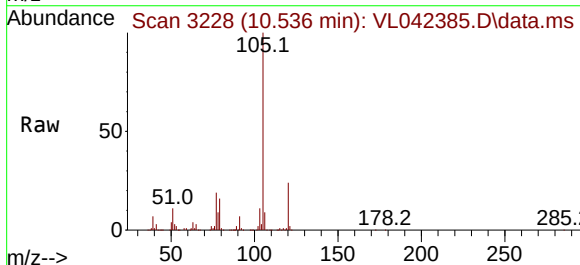
Manual Integrations
APPROVED

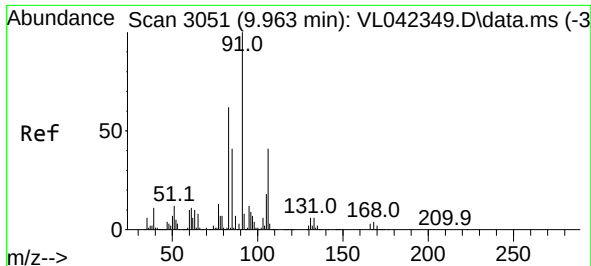
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025



#62
Isopropylbenzene
Concen: 8.376 ppbv
RT: 10.536 min Scan# 3228
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion:105 Resp: 734342
Ion Ratio Lower Upper
105 100
120 24.4 19.8 29.8





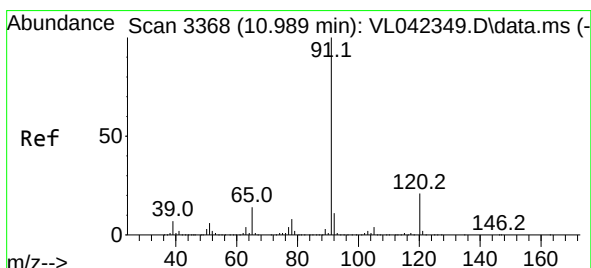
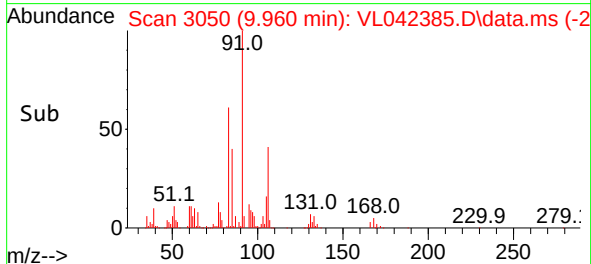
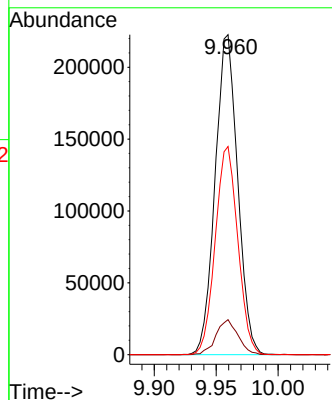
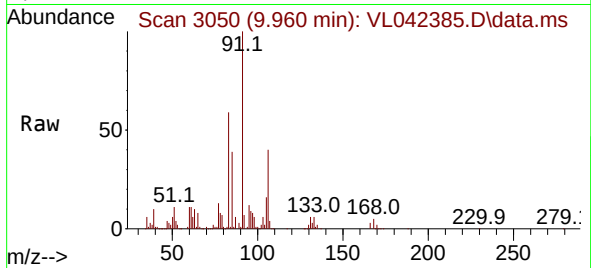
#63
1,1,2,2-Tetrachloroethane
Concen: 7.298 ppbv
RT: 9.960 min Scan# 3051
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Instrument : MSVOA_L
ClientSampleId : VL0418ABS01

Tgt Ion: 83 Resp: 282429
Ion Ratio Lower Upper
83 100
131 10.7 4.5 13.7
85 65.1 32.4 97.0

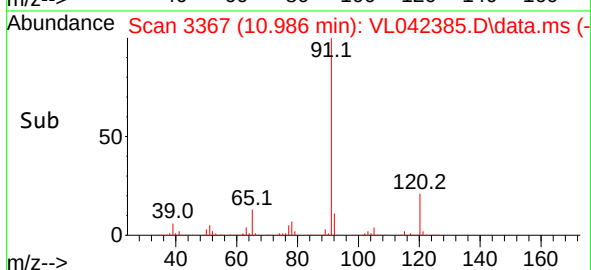
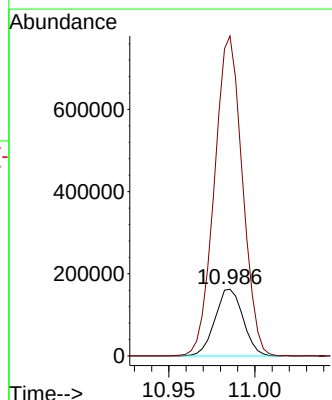
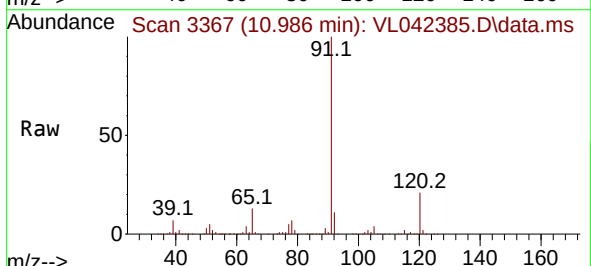
Manual Integrations
APPROVED

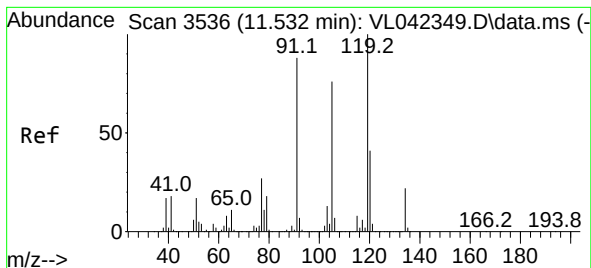
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025



#64
n-propylbenzene
Concen: 8.383 ppbv
RT: 10.986 min Scan# 3367
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion:120 Resp: 184746
Ion Ratio Lower Upper
120 100
91 478.4 392.4 588.6





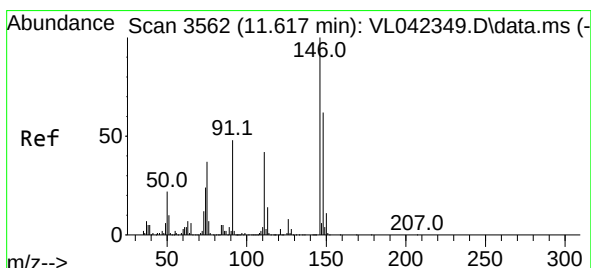
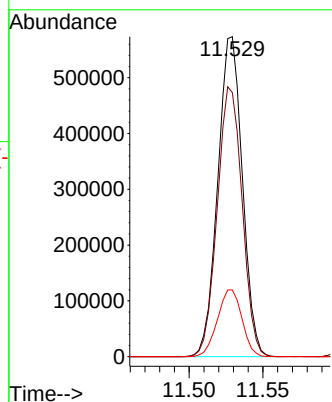
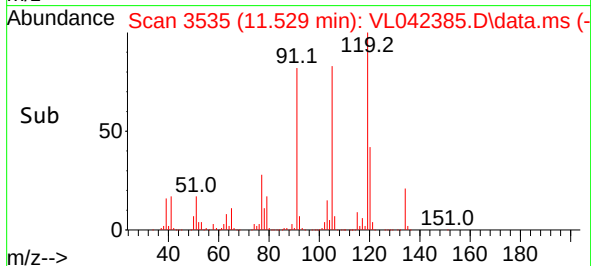
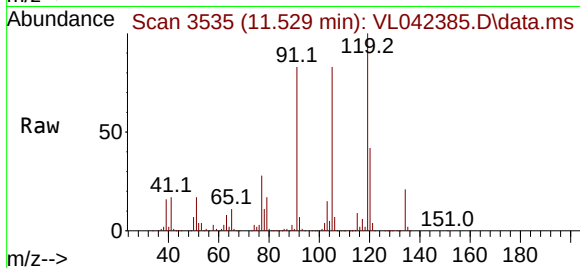
#65
tert-Butylbenzene
Concen: 8.256 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Instrument : MSVOA_L
ClientSampleId : VL0418ABS01

Tgt Ion:119 Resp: 665320
Ion Ratio Lower Upper
119 100
91 85.3 74.6 111.8
134 20.9 18.8 28.2

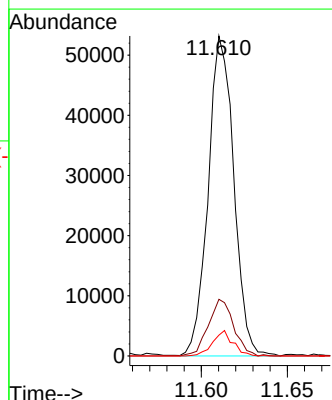
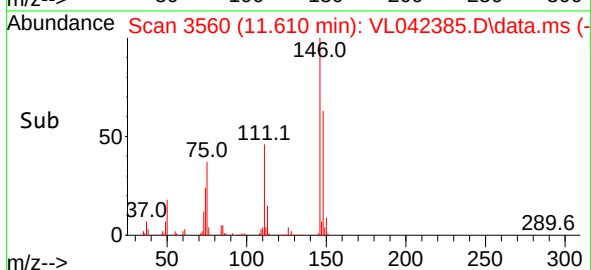
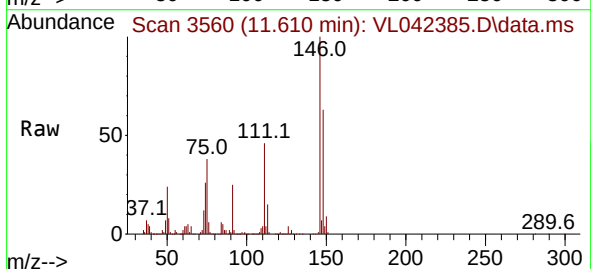
Manual Integrations
APPROVED

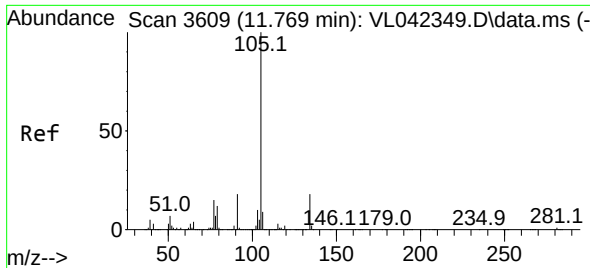
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025



#66
Benzyl Chloride
Concen: 6.223 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. -0.006 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

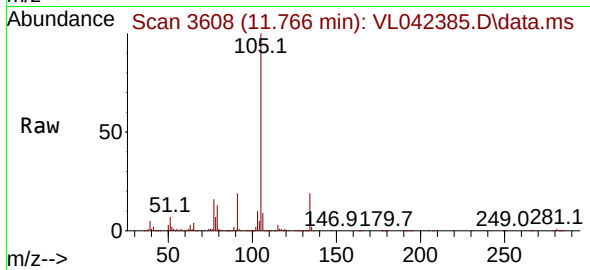
Tgt Ion: 91 Resp: 55103
Ion Ratio Lower Upper
91 100
126 17.5 11.8 17.6
128 6.3 4.5 6.7





#67
 sec-Butylbenzene
 Concen: 8.129 ppbv
 RT: 11.766 min Scan# 30
 Delta R.T. -0.003 min
 Lab File: VL042385.D
 Acq: 18 Apr 2025 11:38

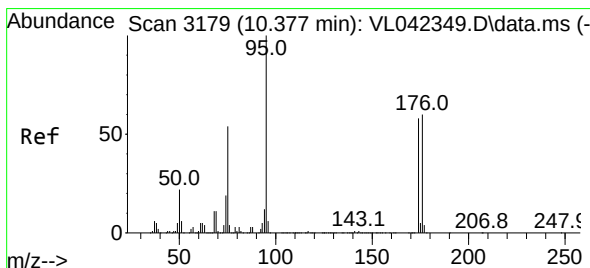
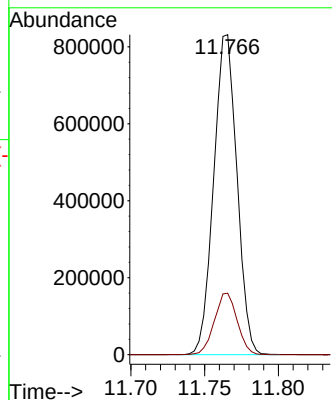
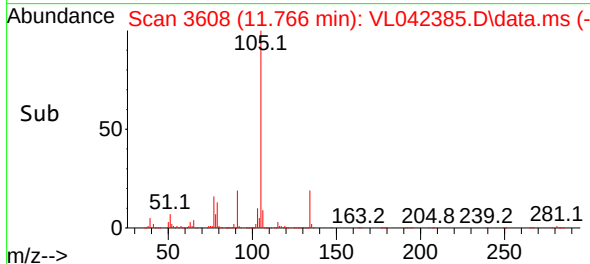
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0418ABS01



Tgt Ion:105 Resp: 911164
 Ion Ratio Lower Upper
 105 100
 134 18.9 14.6 21.8

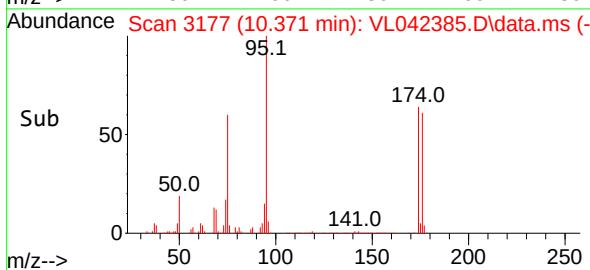
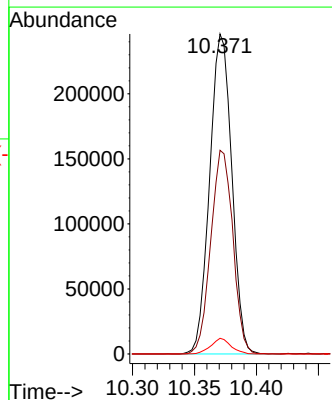
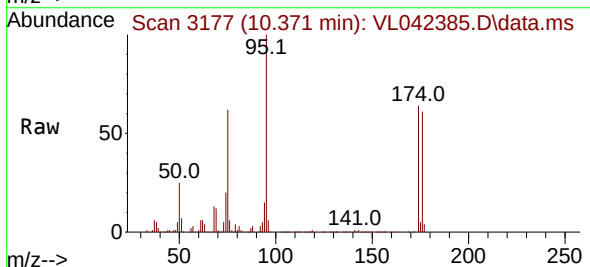
Manual Integrations
 APPROVED

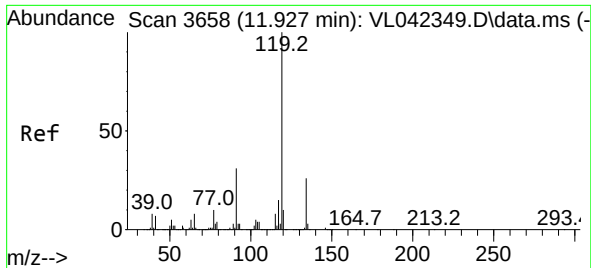
Reviewed By :Semsettin Yesilyurt 04/21/2025
 Supervised By :Mahesh Dadoda 04/21/2025



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.024 ppbv
 RT: 10.371 min Scan# 3177
 Delta R.T. -0.006 min
 Lab File: VL042385.D
 Acq: 18 Apr 2025 11:38

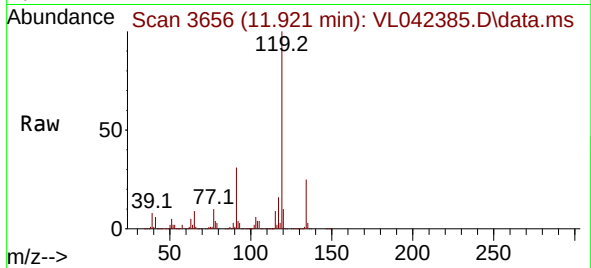
Tgt Ion: 95 Resp: 306062
 Ion Ratio Lower Upper
 95 100
 174 63.5 48.5 72.7
 175 4.4 3.7 5.5





#69
p-Isopropyltoluene
Concen: 8.209 ppbv
RT: 11.921 min Scan# 3656
Delta R.T. -0.006 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

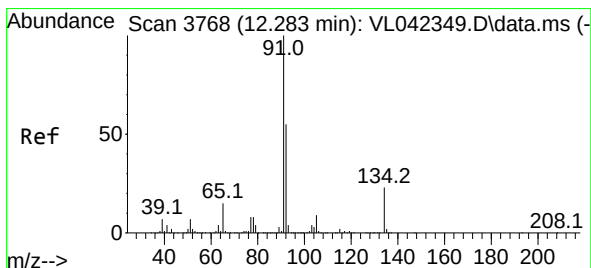
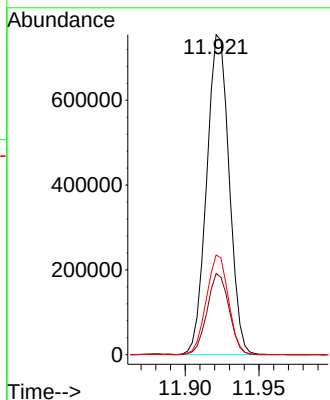
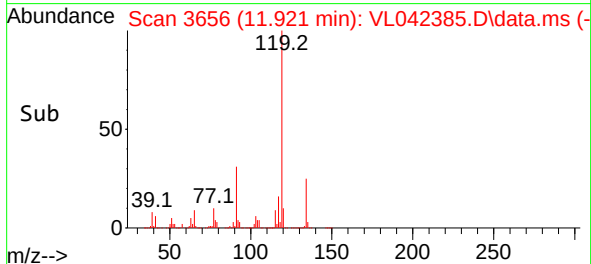
Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01



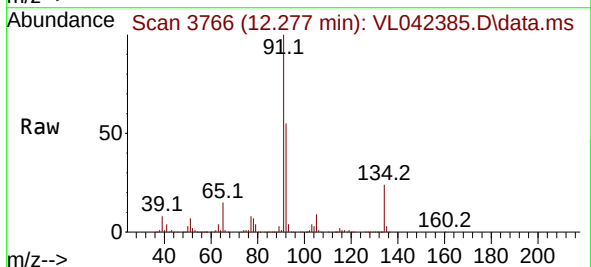
Tgt Ion: 119 Resp: 79933
Ion Ratio Lower Upper
119 100
134 24.9 20.0 30.0
91 30.9 24.4 36.6

Manual Integrations
APPROVED

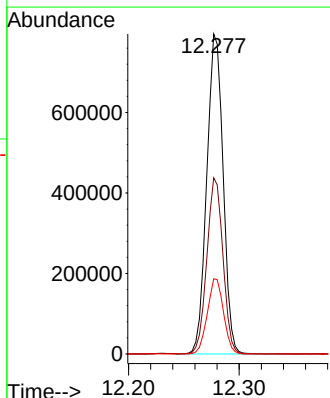
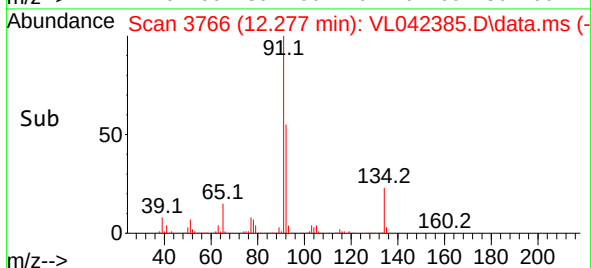
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

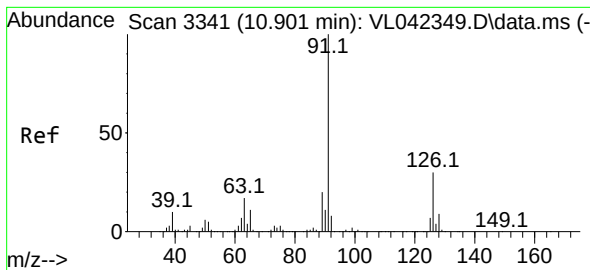


#70
n-Butylbenzene
Concen: 8.061 ppbv
RT: 12.277 min Scan# 3766
Delta R.T. -0.006 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38



Tgt Ion: 91 Resp: 817538
Ion Ratio Lower Upper
91 100
92 54.4 44.2 66.4
134 23.2 18.2 27.4





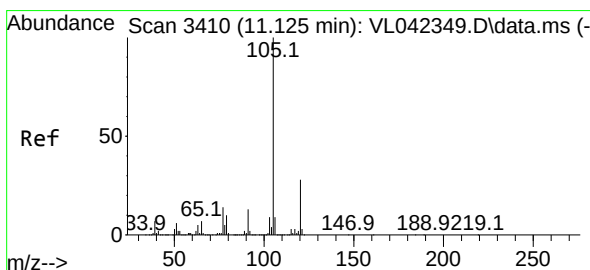
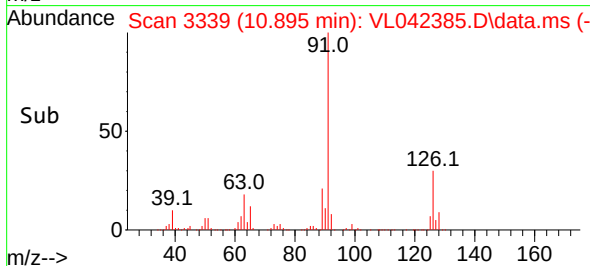
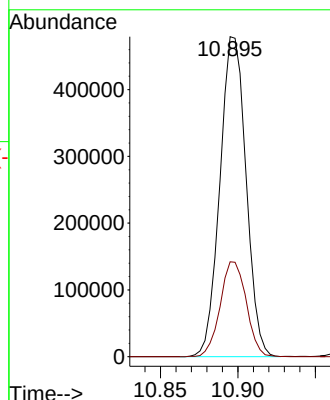
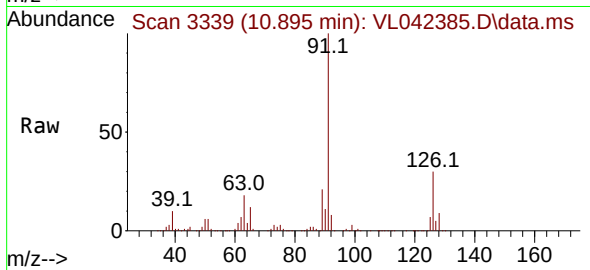
#71
2-Chlorotoluene
Concen: 8.180 ppbv
RT: 10.895 min Scan# 31
Delta R.T. -0.006 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Tgt Ion: 91 Resp: 56248
Ion Ratio Lower Upper
91 100
126 29.6 11.4 45.4

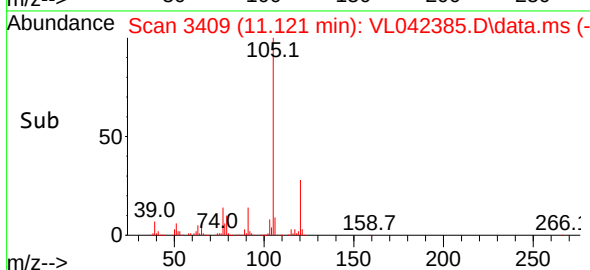
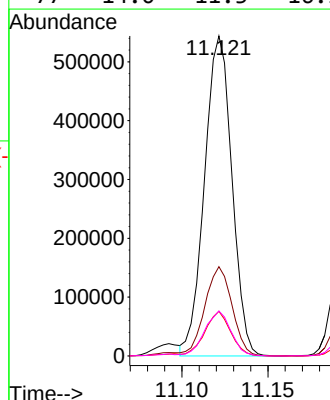
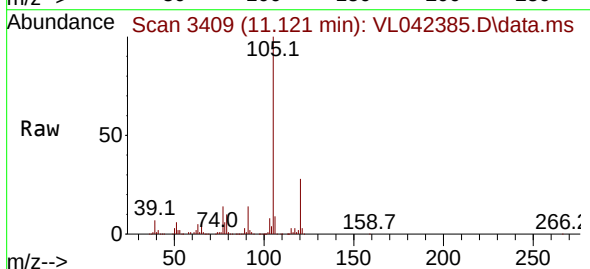
Manual Integrations
APPROVED

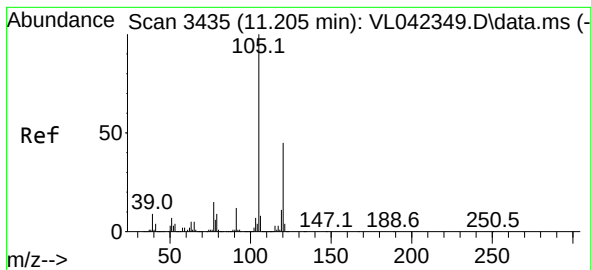
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025



#72
4-Ethyltoluene
Concen: 8.256 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion:105 Resp: 602711
Ion Ratio Lower Upper
105 100
120 28.7 23.2 34.8
91 13.8 10.4 15.6
77 14.0 11.3 16.9





#73

1,3,5-Trimethylbenzene

Concen: 8.135 ppbv

RT: 11.199 min Scan# 3435

Delta R.T. -0.006 min

Lab File: VL042385.D

Acq: 18 Apr 2025 11:38

Instrument :

MSVOA_L

ClientSampleId :

VL0418ABS01

Tgt Ion:105 Resp: 524369

Ion Ratio Lower Upper

105 100

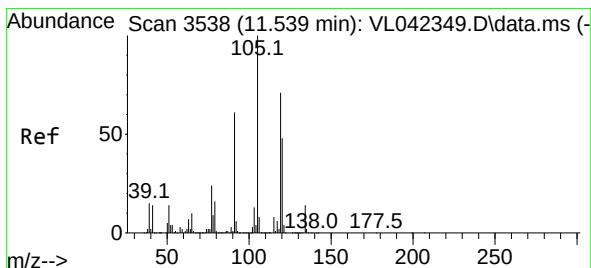
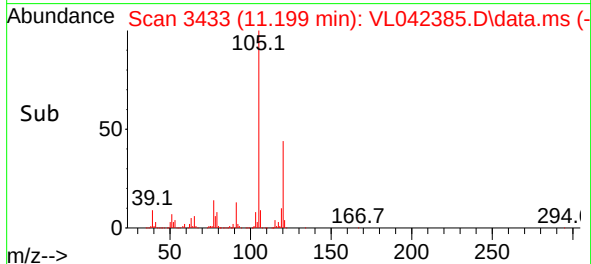
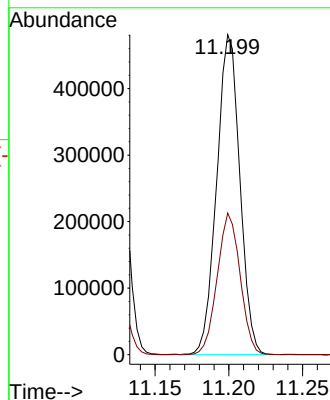
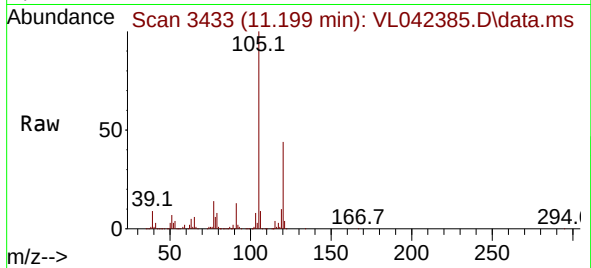
120 44.3 35.6 53.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2025

Supervised By :Mahesh Dadoda 04/21/2025



#74

1,2,4-Trimethylbenzene

Concen: 7.749 ppbv

RT: 11.533 min Scan# 3536

Delta R.T. -0.006 min

Lab File: VL042385.D

Acq: 18 Apr 2025 11:38

Tgt Ion:105 Resp: 583351

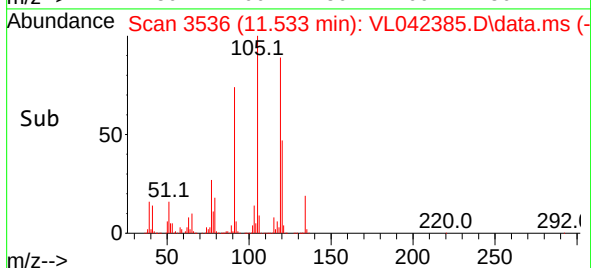
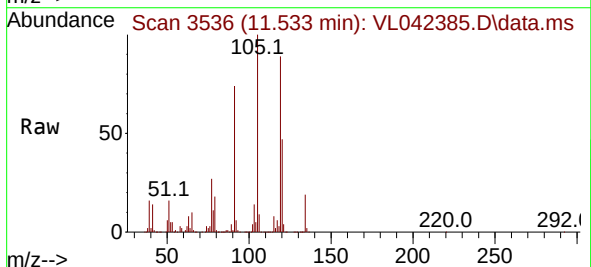
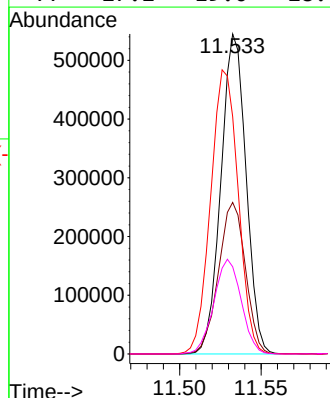
Ion Ratio Lower Upper

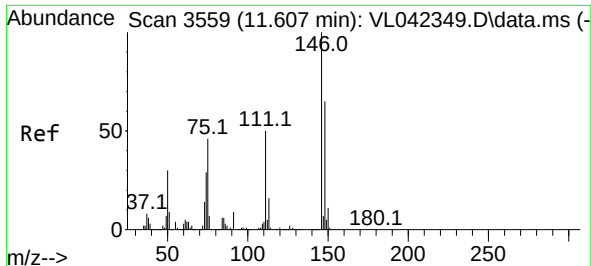
105 100

120 47.3 38.1 57.1

91 74.1 48.8 73.2#

77 27.2 19.0 28.4





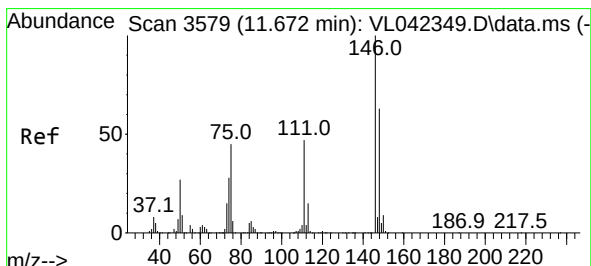
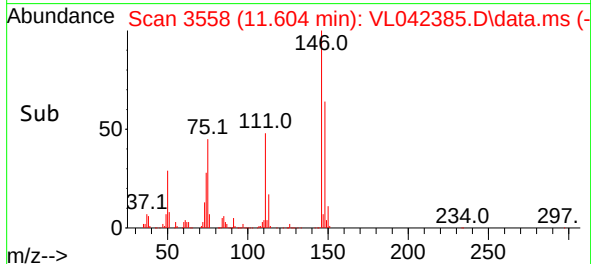
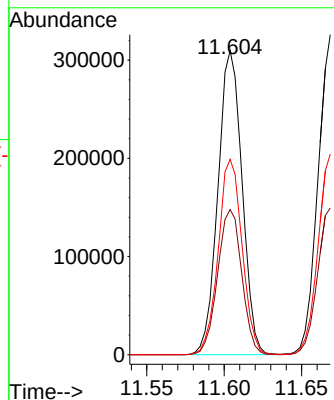
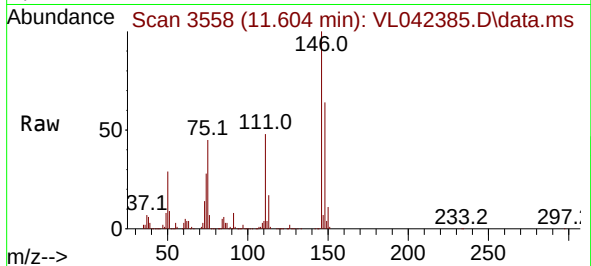
#75
1,3-Dichlorobenzene
Concen: 8.575 ppbv
RT: 11.604 min Scan# 3558
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Tgt Ion:146 Resp: 33553
Ion Ratio Lower Upper
146 100
111 47.8 24.3 72.8
148 63.5 31.6 94.8

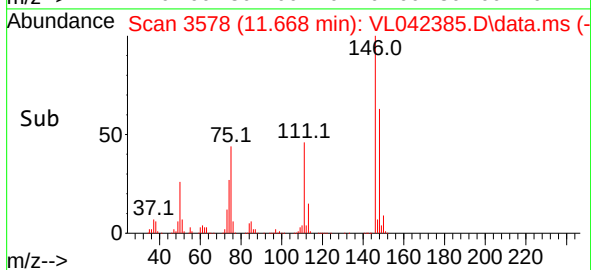
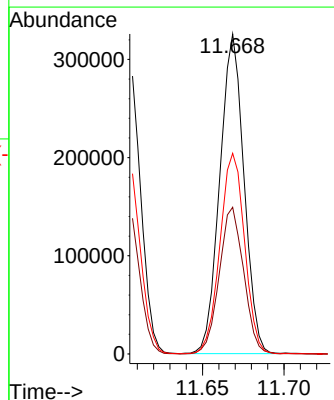
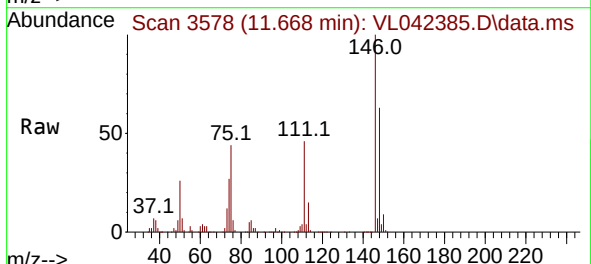
Manual Integrations
APPROVED

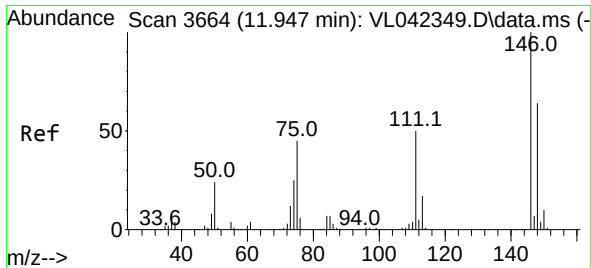
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025



#76
1,4-Dichlorobenzene
Concen: 8.520 ppbv
RT: 11.668 min Scan# 3578
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

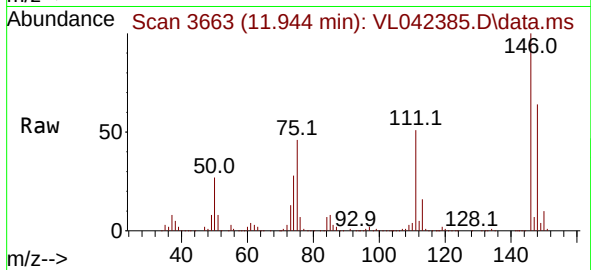
Tgt Ion:146 Resp: 335101
Ion Ratio Lower Upper
146 100
111 46.5 24.2 72.6
148 64.2 32.1 96.5





#77
1,2-Dichlorobenzene
Concen: 8.396 ppbv
RT: 11.944 min Scan# 30
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

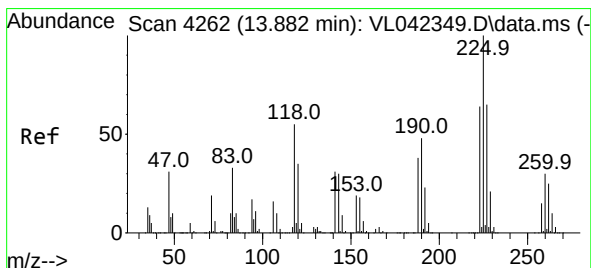
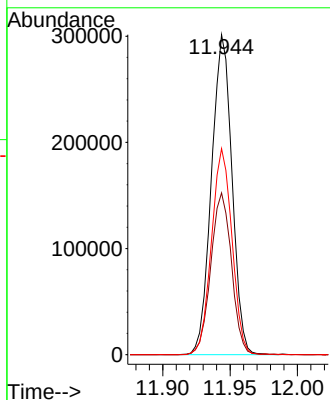
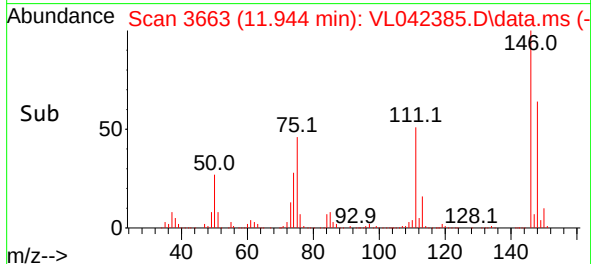
Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01



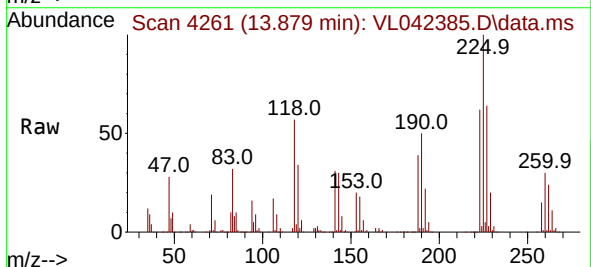
Tgt Ion:146 Resp: 319460
Ion Ratio Lower Upper
146 100
111 51.0 25.3 75.9
148 64.3 31.5 94.5

Manual Integrations
APPROVED

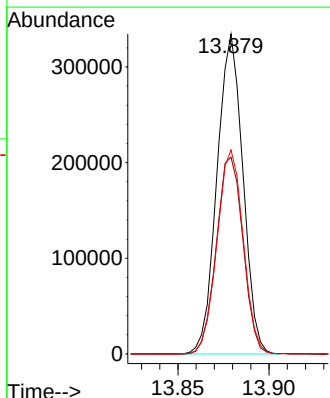
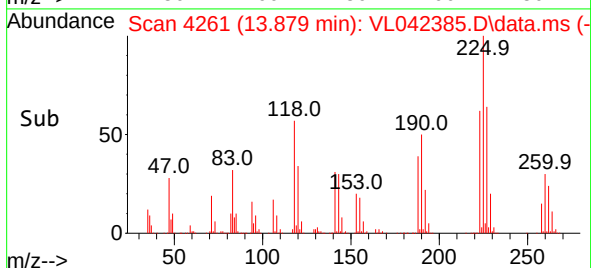
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

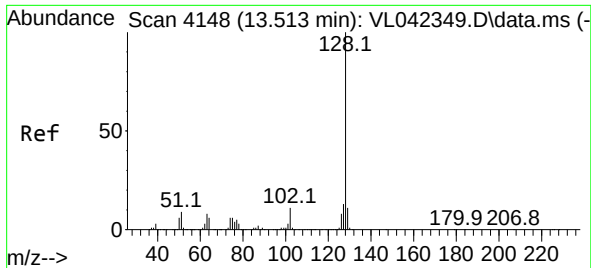


#78
Hexachloro-1,3-Butadiene
Concen: 8.584 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38



Tgt Ion:225 Resp: 329813
Ion Ratio Lower Upper
225 100
223 63.6 50.3 75.5
227 64.6 51.5 77.3





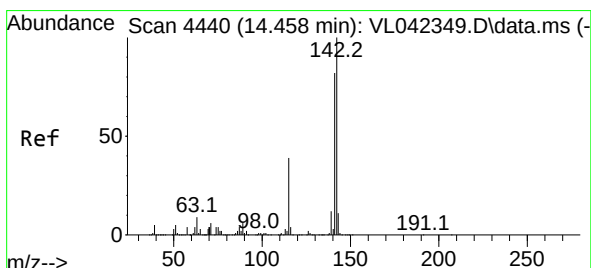
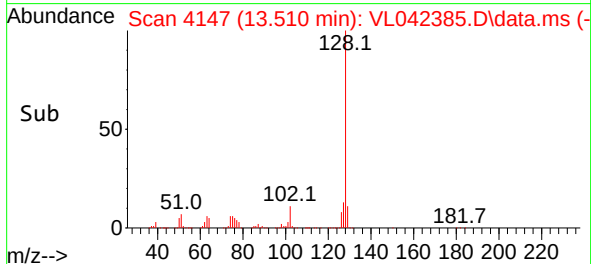
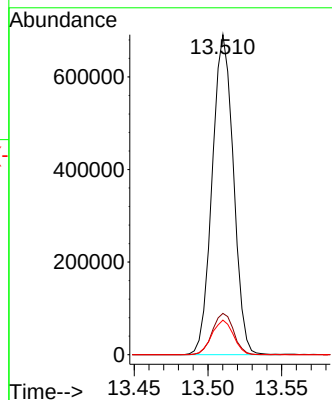
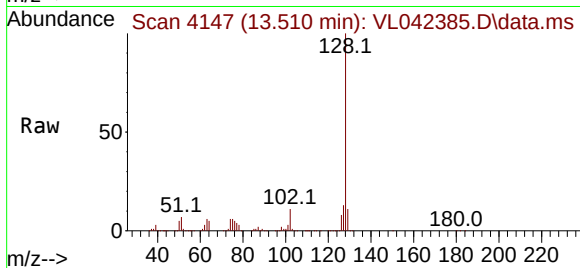
#79
Naphthalene
Concen: 7.676 ppbv
RT: 13.510 min Scan# 4148
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

Tgt Ion:128 Resp: 691058
Ion Ratio Lower Upper
128 100
127 12.9 10.6 15.8
129 10.8 8.6 12.8

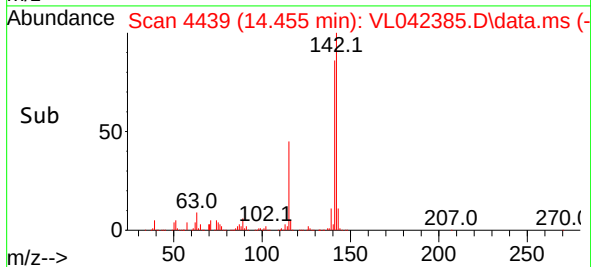
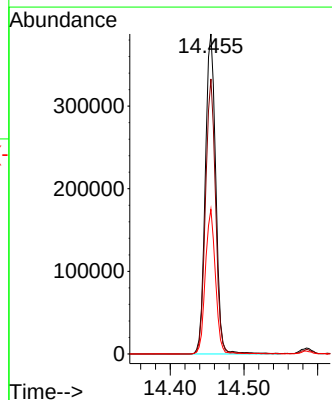
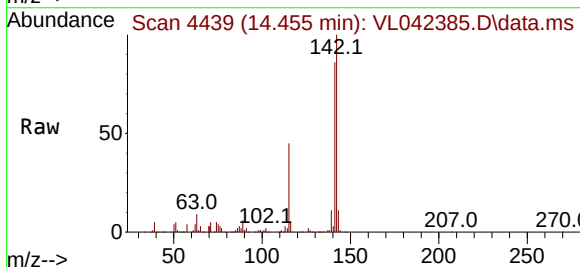
Manual Integrations
APPROVED

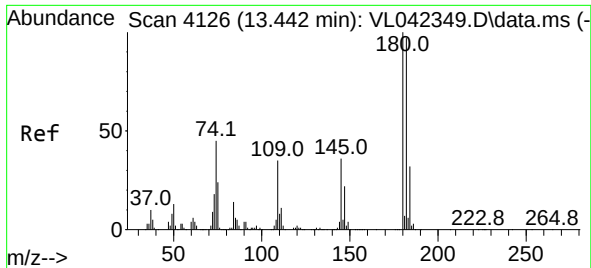
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025



#80
Naphthalene,2-methyl-
Concen: 7.407 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

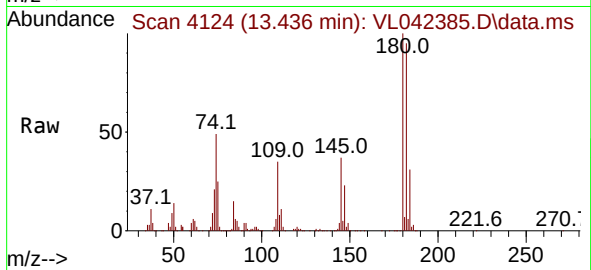
Tgt Ion:142 Resp: 380016
Ion Ratio Lower Upper
142 100
141 83.9 66.8 100.2
115 43.9 33.4 50.2





#81
 1,2,4-Trichlorobenzene
 Concen: 8.408 ppbv
 RT: 13.436 min Scan# 41
 Delta R.T. -0.006 min
 Lab File: VL042385.D
 Acq: 18 Apr 2025 11:38

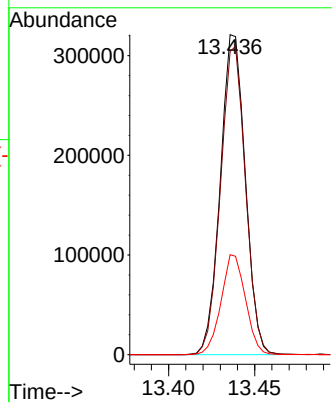
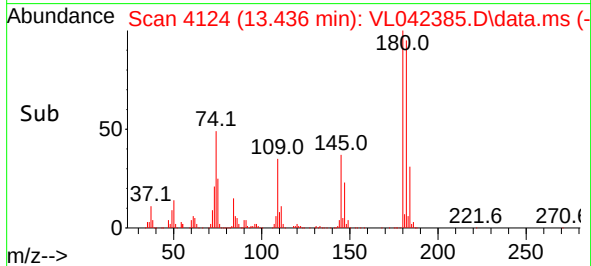
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0418ABS01



Tgt Ion:180 Resp: 325017
 Ion Ratio Lower Upper
 180 100
 182 96.1 76.8 115.2
 184 30.5 24.6 36.8

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2025
 Supervised By :Mahesh Dadoda 04/21/2025



Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/18/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/18/25
Client Sample ID:	IA-B2-3-03312025DL2DUP	SDG No.:	Q1726
Lab Sample ID:	Q1726-06DL2DUP	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
VL042393.D	100		04/18/25 15:47	VL041825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-71-8	Dichlorodifluoromethane	21.0	104	U	104	247	ug/m3
64-17-5	Ethanol	220	415		60.3	94.2	ug/m3
74-87-3	Chloromethane	9.80	20.2	U	20.2	103	ug/m3
75-01-4	Vinyl Chloride	1.40	3.58	U	3.58	7.67	ug/m3
74-83-9	Bromomethane	14.0	54.4	U	54.4	194	ug/m3
75-00-3	Chloroethane	17.0	44.9	U	44.9	132	ug/m3
109-99-9	Tetrahydrofuran	13.0	38.3	U	38.3	147	ug/m3
75-69-4	Trichlorofluoromethane	16.0	89.9	U	89.9	281	ug/m3
76-13-1	1,1,2-Trichlorotrifluoroethane	16.0	123	U	123	383	ug/m3
76-14-2	Dichlorotetrafluoroethane	8.80	61.5	U	61.5	349	ug/m3
593-60-2	Bromoethene	12.0	52.5	U	52.5	219	ug/m3
75-65-0	tert-Butyl alcohol	19.0	57.6	U	57.6	152	ug/m3
142-82-5	Heptane	11.0	45.1	U	45.1	205	ug/m3
67-63-0	Isopropyl Alcohol	30.1	74.0	J	17.0	123	ug/m3
75-35-4	1,1-Dichloroethene	14.0	55.5	U	55.5	198	ug/m3
67-64-1	Acetone	470	1120		57.0	119	ug/m3
75-15-0	Carbon Disulfide	16.0	49.8	U	49.8	156	ug/m3
1634-04-4	Methyl tert-Butyl Ether	12.0	43.3	U	43.3	180	ug/m3
75-09-2	Methylene Chloride	19.0	66.0	U	66.0	174	ug/m3
156-60-5	trans-1,2-Dichloroethene	19.0	75.3	U	75.3	198	ug/m3
75-34-3	1,1-Dichloroethane	13.0	52.6	U	52.6	202	ug/m3
110-82-7	Cyclohexane	22.0	75.7	U	75.7	172	ug/m3
78-93-3	2-Butanone	12.0	35.4	U	35.4	147	ug/m3
56-23-5	Carbon Tetrachloride	1.10	6.92	U	6.92	18.9	ug/m3
156-59-2	cis-1,2-Dichloroethene	8.90	35.3	U	35.3	198	ug/m3
67-66-3	Chloroform	8.30	40.5	U	40.5	244	ug/m3
71-55-6	1,1,1-Trichloroethane	0.95	5.18	U	5.18	16.4	ug/m3
540-84-1	2,2,4-Trimethylpentane	10.0	46.7	U	46.7	234	ug/m3
71-43-2	Benzene	8.70	27.8	U	27.8	160	ug/m3
107-06-2	1,2-Dichloroethane	9.10	36.8	U	36.8	202	ug/m3
79-01-6	Trichloroethene	1.70	9.14	U	9.14	16.1	ug/m3
78-87-5	1,2-Dichloropropane	11.0	50.8	U	50.8	231	ug/m3
75-27-4	Bromodichloromethane	7.70	51.6	U	51.6	335	ug/m3
108-10-1	4-Methyl-2-Pentanone	9.30	38.1	U	38.1	205	ug/m3
108-88-3	Toluene	13.5	50.9	J	41.5	188	ug/m3

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/18/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/18/25
Client Sample ID:	IA-B2-3-03312025DL2DUP	SDG No.:	Q1726
Lab Sample ID:	Q1726-06DL2DUP	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
VL042393.D	100		04/18/25 15:47	VL041825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
10061-02-6	t-1,3-Dichloropropene	6.00	27.2	U	27.2	227	ug/m3
10061-01-5	cis-1,3-Dichloropropene	6.40	29.1	U	29.1	227	ug/m3
79-00-5	1,1,2-Trichloroethane	7.10	38.7	U	38.7	273	ug/m3
124-48-1	Dibromochloromethane	6.60	56.2	U	56.2	426	ug/m3
106-93-4	1,2-Dibromoethane	7.20	55.3	U	55.3	76.8	ug/m3
127-18-4	Tetrachloroethene	1.50	10.2	U	10.2	20.3	ug/m3
108-90-7	Chlorobenzene	7.60	35.0	U	35.0	230	ug/m3
100-41-4	Ethyl Benzene	12.0	52.1	U	52.1	217	ug/m3
179601-23-1	m/p-Xylene	21.0	91.2	U	91.2	434	ug/m3
95-47-6	o-Xylene	12.0	52.1	U	52.1	217	ug/m3
100-42-5	Styrene	11.0	46.8	U	46.8	213	ug/m3
75-25-2	Bromoform	5.70	58.9	U	58.9	517	ug/m3
79-34-5	1,1,2,2-Tetrachloroethane	1.10	7.55	U	7.55	20.6	ug/m3
95-49-8	2-Chlorotoluene	11.0	57.0	U	57.0	259	ug/m3
108-67-8	1,3,5-Trimethylbenzene	11.0	54.1	U	54.1	246	ug/m3
95-63-6	1,2,4-Trimethylbenzene	7.80	38.4	U	38.4	246	ug/m3
541-73-1	1,3-Dichlorobenzene	8.00	48.1	U	48.1	301	ug/m3
106-46-7	1,4-Dichlorobenzene	5.30	31.9	U	31.9	301	ug/m3
95-50-1	1,2-Dichlorobenzene	7.50	45.1	U	45.1	301	ug/m3
120-82-1	1,2,4-Trichlorobenzene	8.50	63.1	U	63.1	371	ug/m3
87-68-3	Hexachloro-1,3-Butadiene	8.50	90.7	U	90.7	533	ug/m3
106-99-0	1,3-Butadiene	13.0	28.8	U	28.8	111	ug/m3
91-20-3	Naphthalene	7.50	39.3	U	39.3	52.4	ug/m3
622-96-8	4-Ethyltoluene	12.0	59.0	U	59.0	246	ug/m3
110-54-3	Hexane	11.0	38.8	U	38.8	176	ug/m3
107-05-1	Allyl Chloride	15.0	47.0	U	47.0	157	ug/m3
123-91-1	1,4-Dioxane	21.0	75.7	U	75.7	180	ug/m3
80-62-6	Methyl Methacrylate	8.60	35.2	U	35.2	205	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	124000	2.79
540-36-3	1,4-Difluorobenzene	373000	3.965
3114-55-4	Chlorobenzene-d5	319000	8.888

Report of Analysis

Client:	Woodard & Curran	Date Collected:	04/18/25
Project:	US EPA Riverside Industrial Park Superfund Site	Date Received:	04/18/25
Client Sample ID:	IA-B2-3-03312025DL2DUP	SDG No.:	Q1726
Lab Sample ID:	Q1726-06DL2DUP	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
VL042393.D	100		04/18/25 15:47	VL041825

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\VL041825\
 Data File : VL042393.D
 Acq On : 18 Apr 2025 15:47
 Operator : SY/MD
 Sample : Q1726-06DL2DUP 100X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-3-03312025DL2DUP

Quant Time: Apr 18 23:00:28 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

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 04/21/2025
 Supervised By : Mahesh Dadoda 04/21/2025

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

Internal Standards						
1) Bromochloromethane	2.790	49	123948	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	373006	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	318921	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	266367	10.164	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.600%
Target Compounds						
					Qvalue	
13) Ethanol	1.722	45	3385	2.243	ppbv #	24
15) Acetone	1.839	43	96169	4.740	ppbv	100
19) Isopropyl Alcohol	1.891	45	3389	0.301	ppbv #	1
53) Toluene	6.940	91	6512m	0.135	ppbv	

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

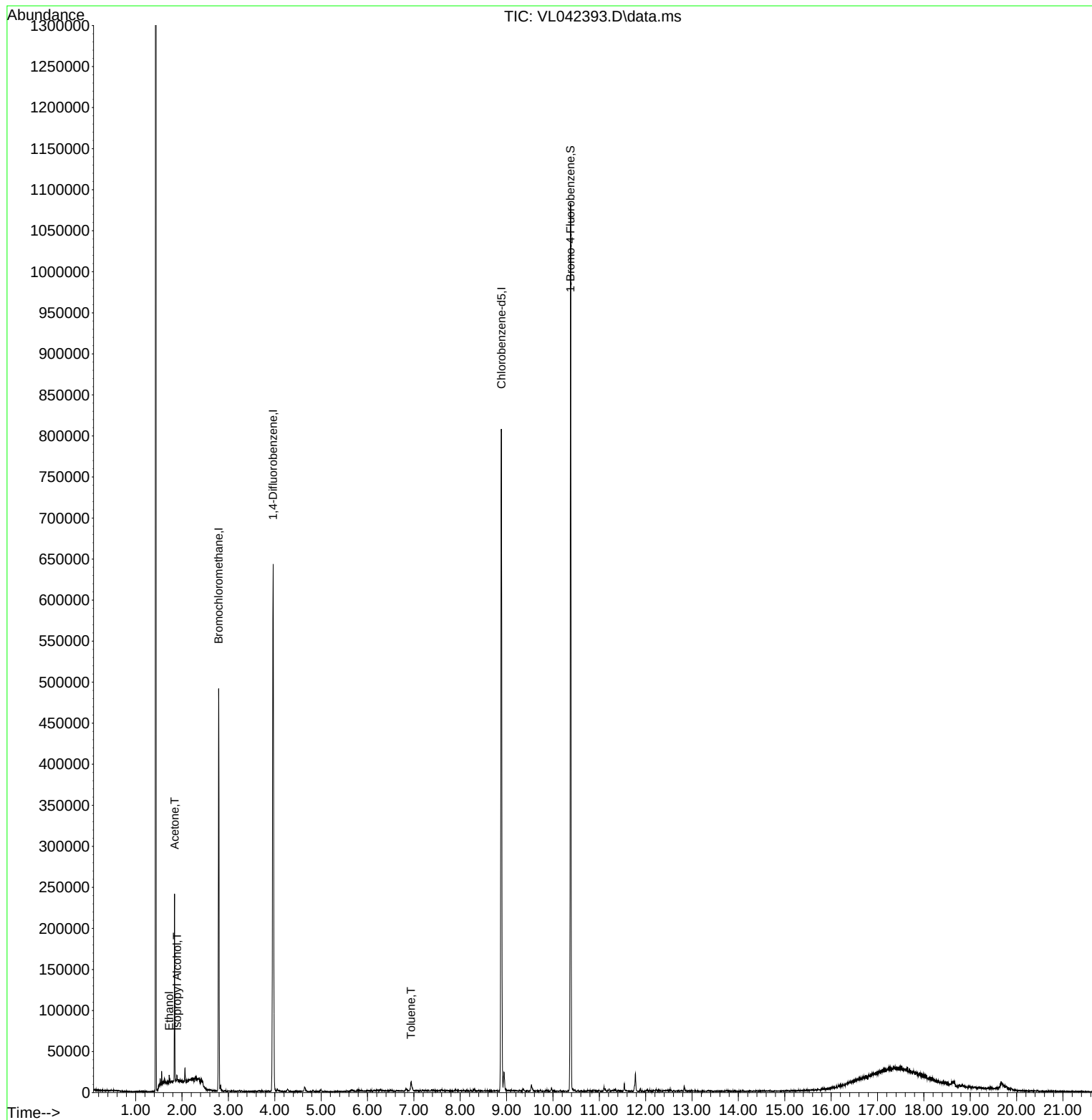
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
Data File : VL042393.D
Acq On : 18 Apr 2025 15:47
Operator : SY/MD
Sample : Q1726-06DL2DUP 100X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

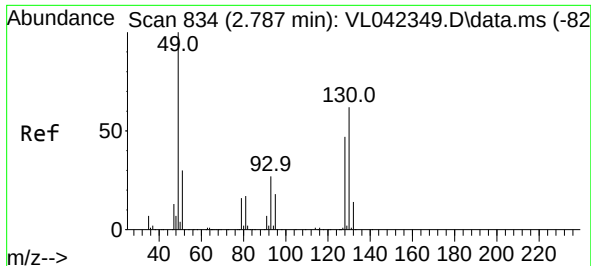
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL2DUP

Quant Time: Apr 18 23:00:28 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

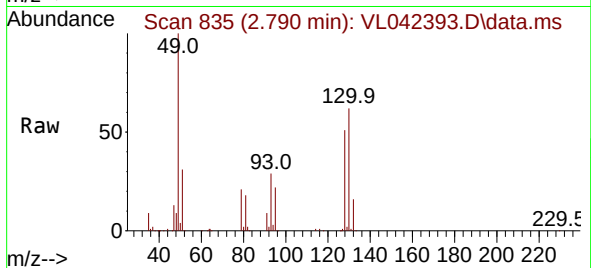
Reviewed By : Semsettin Yesilyurt 04/21/2025
Supervised By : Mahesh Dadoda 04/21/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042393.D
Acq: 18 Apr 2025 15:47

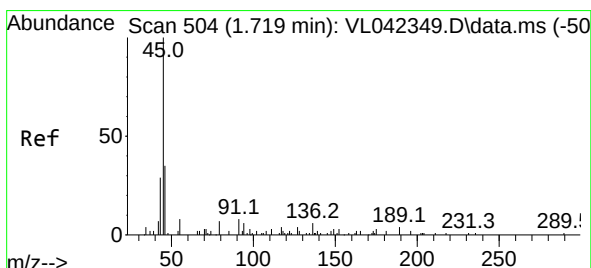
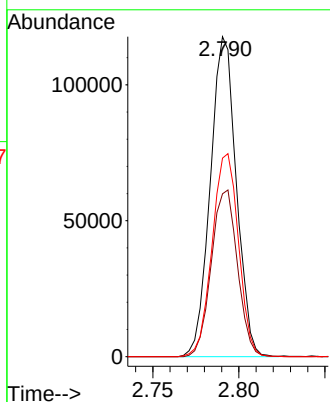
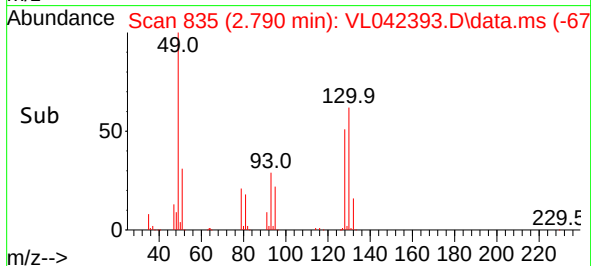
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL2DUP



Tgt Ion: 49 Resp: 123948
Ion Ratio Lower Upper
49 100
128 52.3 22.8 68.4
130 64.1 29.3 88.0

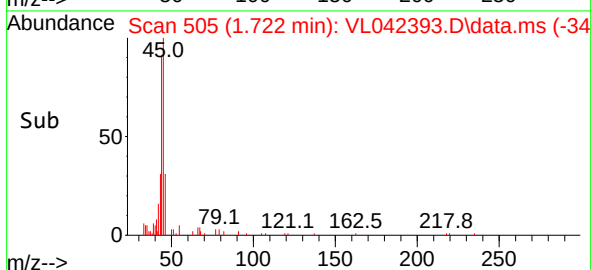
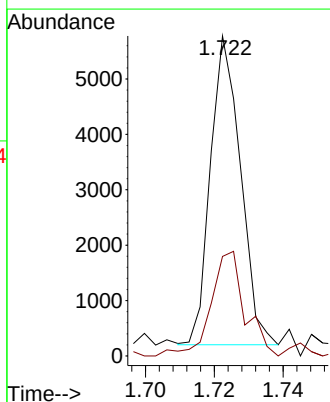
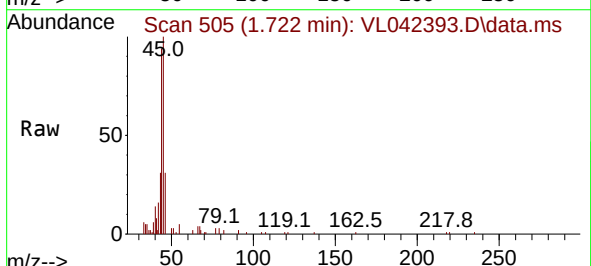
Manual Integrations
APPROVED

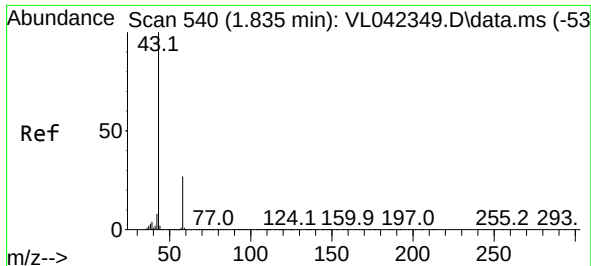
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025



#13
Ethanol
Concen: 2.243 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042393.D
Acq: 18 Apr 2025 15:47

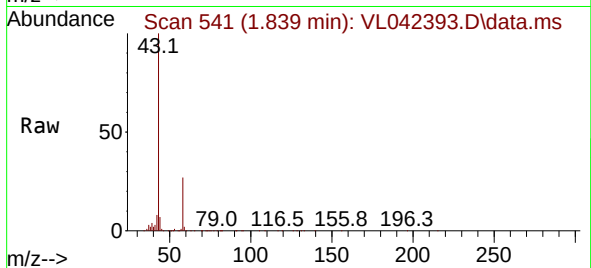
Tgt Ion: 45 Resp: 3385
Ion Ratio Lower Upper
45 100
46 0.0 21.9 87.7#





#15
Acetone
Concen: 4.740 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.004 min
Lab File: VL042393.D
Acq: 18 Apr 2025 15:47

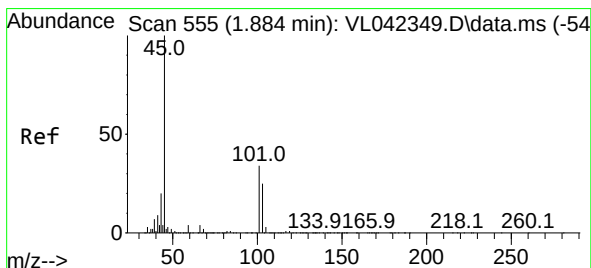
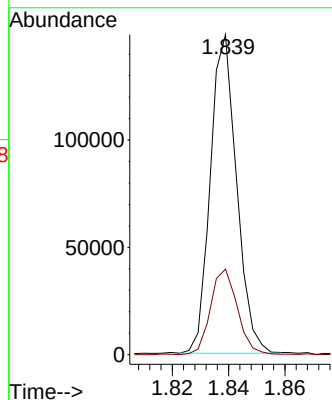
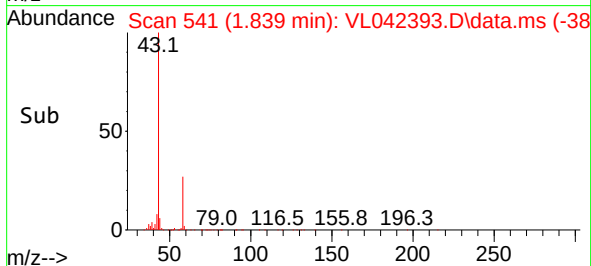
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL2DUP



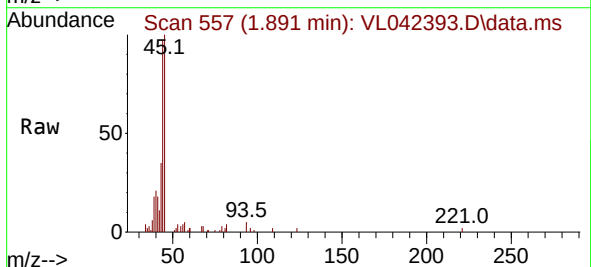
Tgt Ion: 43 Resp: 96169
Ion Ratio Lower Upper
43 100
58 27.9 22.4 33.6

Manual Integrations
APPROVED

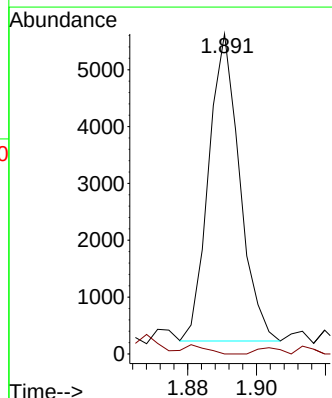
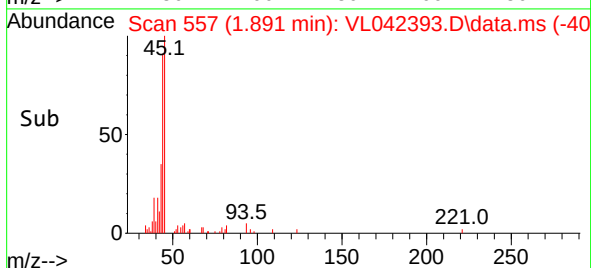
Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025

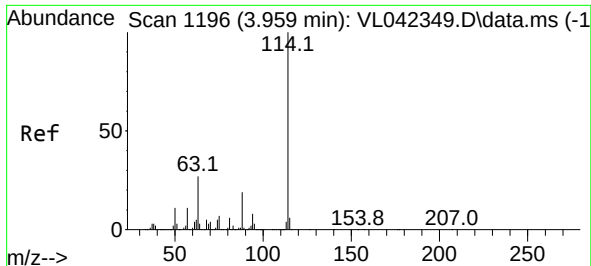


#19
Isopropyl Alcohol
Concen: 0.301 ppbv
RT: 1.891 min Scan# 557
Delta R.T. 0.007 min
Lab File: VL042393.D
Acq: 18 Apr 2025 15:47



Tgt Ion: 45 Resp: 3389
Ion Ratio Lower Upper
45 100
58 791.4 34.5 51.7#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.965 min Scan# 1196

Delta R.T. 0.007 min

Lab File: VL042393.D

Acq: 18 Apr 2025 15:47

Instrument :

MSVOA_L

ClientSampleId :

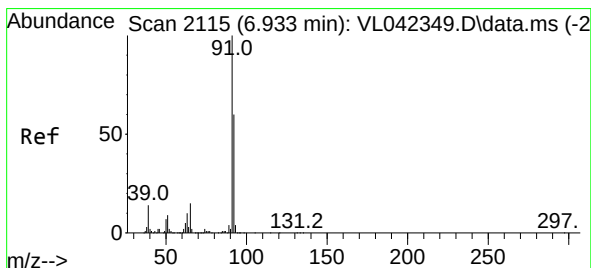
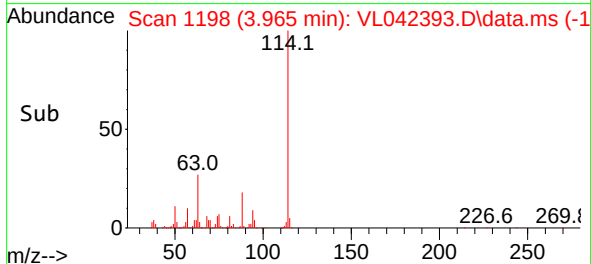
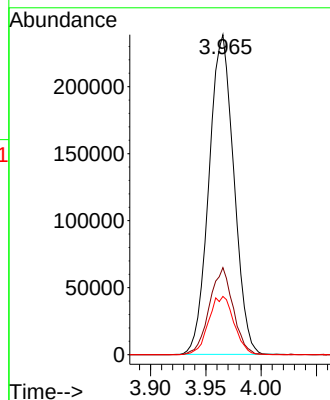
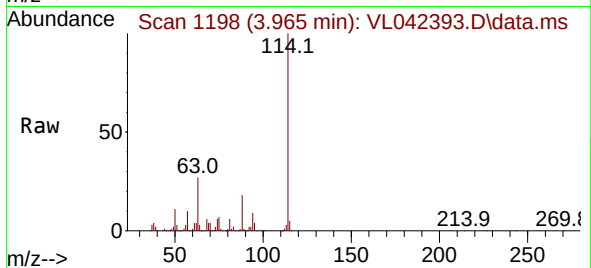
IA-B2-3-03312025DL2DUP

Tgt Ion:	114	Resp:	373000
Ion Ratio	Lower	Upper	
114	100		
63	26.0	21.8	32.6
88	18.7	15.5	23.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025



#53

Toluene

Concen: 0.135 ppbv m

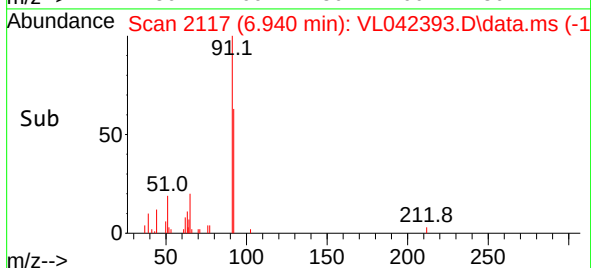
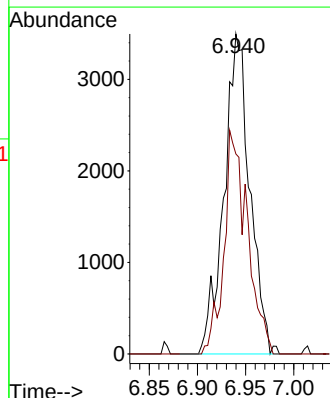
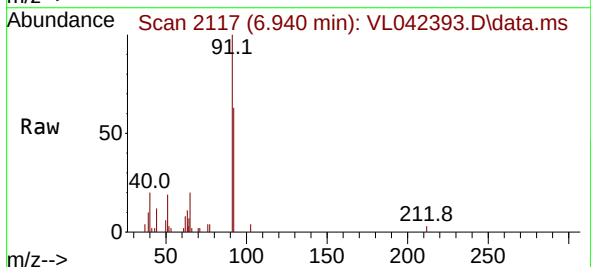
RT: 6.940 min Scan# 2117

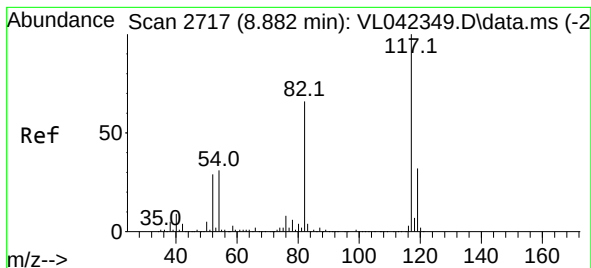
Delta R.T. 0.007 min

Lab File: VL042393.D

Acq: 18 Apr 2025 15:47

Tgt Ion:	91	Resp:	6512
Ion Ratio	Lower	Upper	
91	100		
92	63.2	48.2	72.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.888 min Scan# 21

Delta R.T. 0.007 min

Lab File: VL042393.D

Acq: 18 Apr 2025 15:47

Instrument :

MSVOA_L

ClientSampleId :

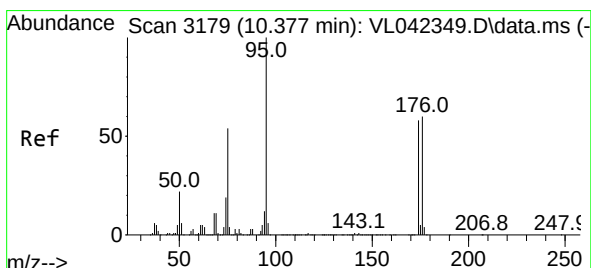
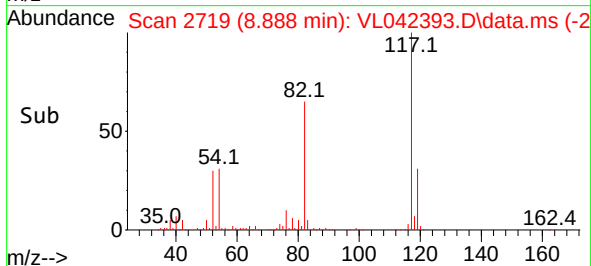
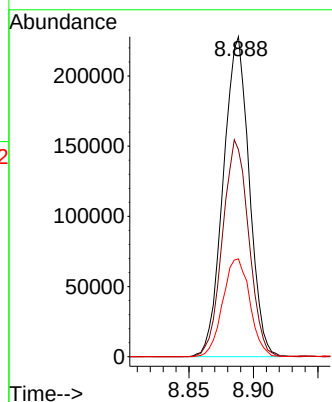
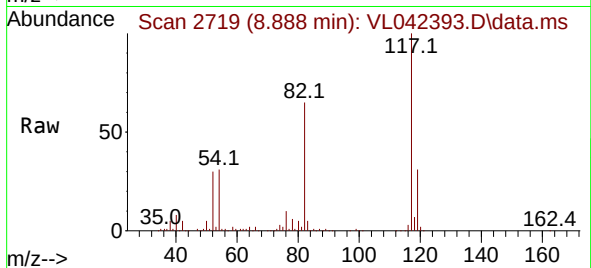
IA-B2-3-03312025DL2DUP

Tgt Ion: 117 Resp: 31892

Ion	Ratio	Lower	Upper
117	100		
82	68.4	57.8	86.6
119	32.1	25.2	37.8

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 04/21/2025
Supervised By :Mahesh Dadoda 04/21/2025



#68

1-Bromo-4-Fluorobenzene

Concen: 10.164 ppbv

RT: 10.380 min Scan# 3180

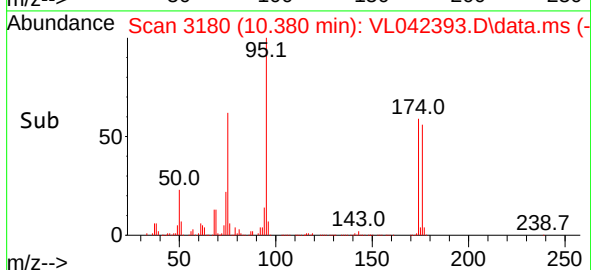
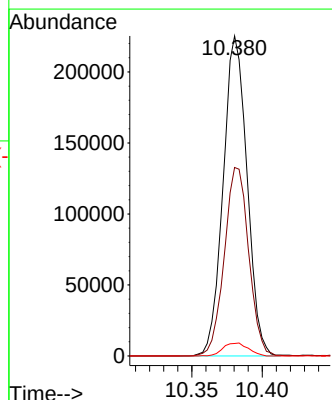
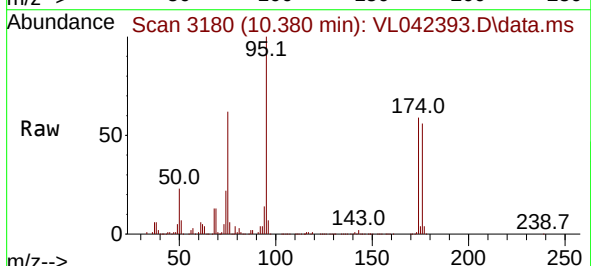
Delta R.T. 0.004 min

Lab File: VL042393.D

Acq: 18 Apr 2025 15:47

Tgt Ion: 95 Resp: 266367

Ion	Ratio	Lower	Upper
95	100		
174	60.1	48.5	72.7
175	4.3	3.7	5.5



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
VSTDICC001	VL042351.D	Ethanol	SAM	4/18/2025 4:19:17 PM	MMDadoda	4/18/2025 10:45:15 PM	Peak Integrated by Software
VSTDICC001	VL042351.D	Heptane	SAM	4/18/2025 4:19:17 PM	MMDadoda	4/18/2025 10:45:15 PM	Peak Integrated by Software
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
VSTDICC001	VL042351.D	Methyl Methacrylate	SAM	4/18/2025 4:19:17 PM	MMDadoda	4/18/2025 10:45:15 PM	Peak Integrated by Software
VSTDICC001	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
VSTDICC0.5	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
VSTDICC0.5	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
VSTDICC0.5	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
VSTDICC0.5	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
VSTDICC0.5	VL042352.D	Chlorobenzene	SAM	4/18/2025 4:20:33 PM	MMDadoda	4/18/2025 10:45:07 PM	Peak Integrated by Software
VSTDICC0.5	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
VSTDICC0.5	VL042352.D	Ethanol	SAM	4/18/2025 4:20:33 PM	MMDadoda	4/18/2025 10:45:07 PM	Peak Integrated by Software
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

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
Q1726-01	VL042366.D	1,2-Dichloroethane	SAM	4/18/2025 4:19:35 PM	MMDadoda	4/18/2025 10:44:26 PM	Peak Integrated by Software
Q1726-01	VL042366.D	Carbon Tetrachloride	SAM	4/18/2025 4:19:35 PM	MMDadoda	4/18/2025 10:44:26 PM	Peak Integrated by Software
Q1726-01	VL042366.D	Chlorodifluoromethane	SAM	4/18/2025 4:19:35 PM	MMDadoda	4/18/2025 10:44:26 PM	Peak Integrated by Software
Q1726-01	VL042366.D	n-Butylbenzene	SAM	4/18/2025 4:19:35 PM	MMDadoda	4/18/2025 10:44:26 PM	Peak Integrated by Software
Q1726-01	VL042366.D	Naphthalene,2-methyl-	SAM	4/18/2025 4:19:35 PM	MMDadoda	4/18/2025 10:44:26 PM	Peak Integrated by Software
Q1726-01	VL042366.D	Propene	SAM	4/18/2025 4:19:35 PM	MMDadoda	4/18/2025 10:44:26 PM	Peak Integrated by Software
Q1726-01	VL042366.D	Tetrachloroethene	SAM	4/18/2025 4:19:35 PM	MMDadoda	4/18/2025 10:44:26 PM	Peak Integrated by Software
Q1726-02	VL042367.D	1,1,1-Trichloroethane	SAM	4/18/2025 4:20:08 PM	MMDadoda	4/18/2025 10:45:51 PM	Peak Integrated by Software
Q1726-02	VL042367.D	Carbon Tetrachloride	SAM	4/18/2025 4:20:08 PM	MMDadoda	4/18/2025 10:45:51 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
Q1726-02	VL042367.D	Chlorodifluoromethane	SAM	4/18/2025 4:20:08 PM	MMDadoda	4/18/2025 10:45:51 PM	Peak Integrated by Software
Q1726-02	VL042367.D	Chloroform	SAM	4/18/2025 4:20:08 PM	MMDadoda	4/18/2025 10:45:51 PM	Peak Integrated by Software
Q1726-02	VL042367.D	Cyclohexane	SAM	4/18/2025 4:20:08 PM	MMDadoda	4/18/2025 10:45:51 PM	Peak Integrated by Software
Q1726-02	VL042367.D	Propene	SAM	4/18/2025 4:20:08 PM	MMDadoda	4/18/2025 10:45:51 PM	Peak Integrated by Software
Q1726-02	VL042367.D	Tetrachloroethene	SAM	4/18/2025 4:20:08 PM	MMDadoda	4/18/2025 10:45:51 PM	Peak Integrated by Software
Q1726-03	VL042368.D	1,1,1-Trichloroethane	SAM	4/18/2025 4:21:50 PM	MMDadoda	4/18/2025 10:44:24 PM	Peak Integrated by Software
Q1726-03	VL042368.D	Carbon Tetrachloride	SAM	4/18/2025 4:21:50 PM	MMDadoda	4/18/2025 10:44:24 PM	Peak Integrated by Software
Q1726-03	VL042368.D	Chlorodifluoromethane	SAM	4/18/2025 4:21:50 PM	MMDadoda	4/18/2025 10:44:24 PM	Peak Integrated by Software
Q1726-03	VL042368.D	Chloroform	SAM	4/18/2025 4:21:50 PM	MMDadoda	4/18/2025 10:44:24 PM	Peak Integrated by Software
Q1726-03	VL042368.D	n-Butylbenzene	SAM	4/18/2025 4:21:50 PM	MMDadoda	4/18/2025 10:44:24 PM	Peak Integrated by Software
Q1726-03	VL042368.D	Naphthalene,2-methyl-	SAM	4/18/2025 4:21:50 PM	MMDadoda	4/18/2025 10:44:24 PM	Peak Integrated by Software
Q1726-03	VL042368.D	Propene	SAM	4/18/2025 4:21:50 PM	MMDadoda	4/18/2025 10:44:24 PM	Peak Integrated by Software
Q1726-03	VL042368.D	tert-Butyl alcohol	SAM	4/18/2025 4:21:50 PM	MMDadoda	4/18/2025 10:44:24 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
Q1726-03	VL042368.D	Tetrachloroethene	SAM	4/18/2025 4:21:50 PM	MMDadoda	4/18/2025 10:44:24 PM	Peak Integrated by Software
Q1726-04	VL042369.D	1,1,1-Trichloroethane	SAM	4/18/2025 4:21:55 PM	MMDadoda	4/18/2025 10:44:18 PM	Peak Integrated by Software
Q1726-04	VL042369.D	Carbon Tetrachloride	SAM	4/18/2025 4:21:55 PM	MMDadoda	4/18/2025 10:44:18 PM	Peak Integrated by Software
Q1726-04	VL042369.D	Chlorodifluoromethane	SAM	4/18/2025 4:21:55 PM	MMDadoda	4/18/2025 10:44:18 PM	Peak Integrated by Software
Q1726-04	VL042369.D	Propene	SAM	4/18/2025 4:21:55 PM	MMDadoda	4/18/2025 10:44:18 PM	Peak Integrated by Software
Q1726-04	VL042369.D	tert-Butyl alcohol	SAM	4/18/2025 4:21:55 PM	MMDadoda	4/18/2025 10:44:18 PM	Peak Integrated by Software
Q1726-04	VL042369.D	Tetrachloroethene	SAM	4/18/2025 4:21:55 PM	MMDadoda	4/18/2025 10:44:18 PM	Peak Integrated by Software
Q1726-05	VL042370.D	1,1,1-Trichloroethane	SAM	4/18/2025 4:21:04 PM	MMDadoda	4/18/2025 10:44:08 PM	Peak Integrated by Software
Q1726-05	VL042370.D	Chlorodifluoromethane	SAM	4/18/2025 4:21:04 PM	MMDadoda	4/18/2025 10:44:08 PM	Peak Integrated by Software
Q1726-05	VL042370.D	Cyclohexane	SAM	4/18/2025 4:21:04 PM	MMDadoda	4/18/2025 10:44:08 PM	Peak Integrated by Software
Q1726-05	VL042370.D	Propene	SAM	4/18/2025 4:21:04 PM	MMDadoda	4/18/2025 10:44:08 PM	Peak Integrated by Software
Q1726-05	VL042370.D	tert-Butyl alcohol	SAM	4/18/2025 4:21:04 PM	MMDadoda	4/18/2025 10:44:08 PM	Peak Integrated by Software
Q1726-05	VL042370.D	Tetrachloroethene	SAM	4/18/2025 4:21:04 PM	MMDadoda	4/18/2025 10:44:08 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
Q1726-06	VL042371.D	Chlorodifluoromethane	SAM	4/18/2025 4:20:03 PM	MMDadoda	4/18/2025 10:44:05 PM	Peak Integrated by Software
Q1726-06	VL042371.D	n-Butylbenzene	SAM	4/18/2025 4:20:03 PM	MMDadoda	4/18/2025 10:44:05 PM	Peak Integrated by Software
Q1726-06	VL042371.D	Propene	SAM	4/18/2025 4:20:03 PM	MMDadoda	4/18/2025 10:44:05 PM	Peak Integrated by Software
Q1726-06	VL042371.D	tert-Butyl alcohol	SAM	4/18/2025 4:20:03 PM	MMDadoda	4/18/2025 10:44:05 PM	Peak Integrated by Software
Q1726-06	VL042371.D	Tetrachloroethene	SAM	4/18/2025 4:20:03 PM	MMDadoda	4/18/2025 10:44:05 PM	Peak Integrated by Software
Q1726-06	VL042371.D	Trichloroethene	SAM	4/18/2025 4:20:03 PM	MMDadoda	4/18/2025 10:44:05 PM	Peak Integrated by Software
Q1726-07	VL042372.D	4-Methyl-2-Pentanone	SAM	4/18/2025 4:20:49 PM	MMDadoda	4/18/2025 10:44:02 PM	Peak Integrated by Software
Q1726-07	VL042372.D	Carbon Tetrachloride	SAM	4/18/2025 4:20:49 PM	MMDadoda	4/18/2025 10:44:02 PM	Peak Integrated by Software
Q1726-07	VL042372.D	Chlorodifluoromethane	SAM	4/18/2025 4:20:49 PM	MMDadoda	4/18/2025 10:44:02 PM	Peak Integrated by Software
Q1726-07	VL042372.D	Chloroform	SAM	4/18/2025 4:20:49 PM	MMDadoda	4/18/2025 10:44:02 PM	Peak Integrated by Software
Q1726-07	VL042372.D	n-Butylbenzene	SAM	4/18/2025 4:20:49 PM	MMDadoda	4/18/2025 10:44:02 PM	Peak Integrated by Software
Q1726-07	VL042372.D	Propene	SAM	4/18/2025 4:20:49 PM	MMDadoda	4/18/2025 10:44:02 PM	Peak Integrated by Software
Q1726-07	VL042372.D	tert-Butyl alcohol	SAM	4/18/2025 4:20:49 PM	MMDadoda	4/18/2025 10:44:02 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
Q1726-07	VL042372.D	Tetrachloroethene	SAM	4/18/2025 4:20:49 PM	MMDadoda	4/18/2025 10:44:02 PM	Peak Integrated by Software
Q1726-07DL	VL042373.D	2,2,4-Trimethylpentane	SAM	4/18/2025 4:22:12 PM	MMDadoda	4/18/2025 10:43:58 PM	Peak Integrated by Software
Q1726-07DL	VL042373.D	Heptane	SAM	4/18/2025 4:22:12 PM	MMDadoda	4/18/2025 10:43:58 PM	Peak Integrated by Software
Q1726-07DL	VL042373.D	m/p-Xylene	SAM	4/18/2025 4:22:12 PM	MMDadoda	4/18/2025 10:43:58 PM	Peak Integrated by Software
Q1726-07DL	VL042373.D	Propene	SAM	4/18/2025 4:22:12 PM	MMDadoda	4/18/2025 10:43:58 PM	Peak Integrated by Software
Q1726-01DL	VL042376.D	Benzene	SAM	4/18/2025 4:19:57 PM	MMDadoda	4/18/2025 10:43:47 PM	Peak Integrated by Software
Q1726-01DL	VL042376.D	Cyclohexane	SAM	4/18/2025 4:19:57 PM	MMDadoda	4/18/2025 10:43:47 PM	Peak Integrated by Software
Q1726-01DL	VL042376.D	Propene	SAM	4/18/2025 4:19:57 PM	MMDadoda	4/18/2025 10:43:47 PM	Peak Integrated by Software
Q1726-02DL	VL042377.D	Benzene	SAM	4/18/2025 4:21:15 PM	MMDadoda	4/18/2025 10:43:43 PM	Peak Integrated by Software
Q1726-02DL	VL042377.D	Cyclohexane	SAM	4/18/2025 4:21:15 PM	MMDadoda	4/18/2025 10:43:43 PM	Peak Integrated by Software
Q1726-02DL	VL042377.D	Heptane	SAM	4/18/2025 4:21:15 PM	MMDadoda	4/18/2025 10:43:43 PM	Peak Integrated by Software
Q1726-02DL	VL042377.D	m/p-Xylene	SAM	4/18/2025 4:21:15 PM	MMDadoda	4/18/2025 10:43:43 PM	Peak Integrated by Software
Q1726-02DL	VL042377.D	n-propylbenzene	SAM	4/18/2025 4:21:15 PM	MMDadoda	4/18/2025 10:43:43 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
Q1726-02DL	VL042377.D	Propene	SAM	4/18/2025 4:21:15 PM	MMDadoda	4/18/2025 10:43:43 PM	Peak Integrated by Software
Q1726-03DL	VL042378.D	1,3,5-Trimethylbenzene	SAM	4/18/2025 4:21:23 PM	MMDadoda	4/18/2025 10:43:37 PM	Peak Integrated by Software
Q1726-03DL	VL042378.D	2,2,4-Trimethylpentane	SAM	4/18/2025 4:21:23 PM	MMDadoda	4/18/2025 10:43:37 PM	Peak Integrated by Software
Q1726-03DL	VL042378.D	Heptane	SAM	4/18/2025 4:21:23 PM	MMDadoda	4/18/2025 10:43:37 PM	Peak Integrated by Software
Q1726-03DL	VL042378.D	m/p-Xylene	SAM	4/18/2025 4:21:23 PM	MMDadoda	4/18/2025 10:43:37 PM	Peak Integrated by Software
Q1726-03DL	VL042378.D	Propene	SAM	4/18/2025 4:21:23 PM	MMDadoda	4/18/2025 10:43:37 PM	Peak Integrated by Software
Q1726-04DL	VL042379.D	2,2,4-Trimethylpentane	SAM	4/18/2025 4:19:52 PM	MMDadoda	4/18/2025 10:43:34 PM	Peak Integrated by Software
Q1726-04DL	VL042379.D	Benzene	SAM	4/18/2025 4:19:52 PM	MMDadoda	4/18/2025 10:43:34 PM	Peak Integrated by Software
Q1726-04DL	VL042379.D	Heptane	SAM	4/18/2025 4:19:52 PM	MMDadoda	4/18/2025 10:43:34 PM	Peak Integrated by Software
Q1726-04DL	VL042379.D	n-propylbenzene	SAM	4/18/2025 4:19:52 PM	MMDadoda	4/18/2025 10:43:34 PM	Peak Integrated by Software
Q1726-05DL	VL042380.D	Heptane	SAM	4/18/2025 4:19:46 PM	MMDadoda	4/18/2025 10:43:30 PM	Peak Integrated by Software
Q1726-05DL	VL042380.D	Propene	SAM	4/18/2025 4:19:46 PM	MMDadoda	4/18/2025 10:43:30 PM	Peak Integrated by Software
Q1726-06DL	VL042381.D	2-Butanone	SAM	4/18/2025 4:19:42 PM	MMDadoda	4/18/2025 10:45:53 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
Q1726-06DL	VL042381.D	Heptane	SAM	4/18/2025 4:19:42 PM	MMDadoda	4/18/2025 10:45:53 PM	Peak Integrated by Software
Q1726-06DL	VL042381.D	Hexane	SAM	4/18/2025 4:19:42 PM	MMDadoda	4/18/2025 10:45:53 PM	Peak Integrated by Software
Q1726-06DL	VL042381.D	m/p-Xylene	SAM	4/18/2025 4:19:42 PM	MMDadoda	4/18/2025 10:45:53 PM	Peak Integrated by Software
Q1726-06DL	VL042381.D	Propene	SAM	4/18/2025 4:19:42 PM	MMDadoda	4/18/2025 10:45:53 PM	Peak Integrated by Software
Q1726-06DL	VL042381.D	Toluene	SAM	4/18/2025 4:19:42 PM	MMDadoda	4/18/2025 10:45:53 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL041825	Instrument	MSVOA_I
-----------	----------	------------	---------

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC010	VL042383.D	m/p-Xylene	SAM	4/21/2025 7:55:57 AM	MMDadoda	4/21/2025 3:26:35 PM	Peak Integrated by Software
VL0418ABS01	VL042385.D	m/p-Xylene	SAM	4/21/2025 7:56:01 AM	MMDadoda	4/21/2025 3:26:35 PM	Peak Integrated by Software
Q1726-07DL2	VL042386.D	m/p-Xylene	SAM	4/21/2025 7:56:07 AM	MMDadoda	4/21/2025 3:26:35 PM	Peak Integrated by Software
Q1726-07DL2	VL042386.D	Toluene	SAM	4/21/2025 7:56:07 AM	MMDadoda	4/21/2025 3:26:35 PM	Peak Integrated by Software
Q1726-01DL2	VL042387.D	1,3,5-Trimethylbenzene	SAM	4/21/2025 7:56:30 AM	MMDadoda	4/21/2025 3:26:37 PM	Peak Integrated by Software
Q1726-01DL2	VL042387.D	Ethyl Benzene	SAM	4/21/2025 7:56:30 AM	MMDadoda	4/21/2025 3:26:37 PM	Peak Integrated by Software
Q1726-01DL2	VL042387.D	Heptane	SAM	4/21/2025 7:56:30 AM	MMDadoda	4/21/2025 3:26:37 PM	Peak Integrated by Software
Q1726-02DL2	VL042388.D	2,2,4-Trimethylpentane	SAM	4/21/2025 7:56:12 AM	MMDadoda	4/21/2025 3:26:38 PM	Peak Integrated by Software
Q1726-02DL2	VL042388.D	Ethyl Benzene	SAM	4/21/2025 7:56:12 AM	MMDadoda	4/21/2025 3:26:38 PM	Peak Integrated by Software
Q1726-02DL2	VL042388.D	Heptane	SAM	4/21/2025 7:56:12 AM	MMDadoda	4/21/2025 3:26:38 PM	Peak Integrated by Software
Q1726-02DL2	VL042388.D	o-Xylene	SAM	4/21/2025 7:56:12 AM	MMDadoda	4/21/2025 3:26:38 PM	Peak Integrated by Software
Q1726-04DL2	VL042389.D	2,2,4-Trimethylpentane	SAM	4/21/2025 7:56:35 AM	MMDadoda	4/21/2025 3:26:40 PM	Peak Integrated by Software
Q1726-04DL2	VL042389.D	Ethyl Benzene	SAM	4/21/2025 7:56:35 AM	MMDadoda	4/21/2025 3:26:40 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

vl041825

Instrument

MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1726-04DL2	VL042389.D	Heptane	SAM	4/21/2025 7:56:35 AM	MMDadoda	4/21/2025 3:26:40 PM	Peak Integrated by Software
Q1726-03DL2	VL042390.D	Toluene	SAM	4/21/2025 7:56:40 AM	MMDadoda	4/21/2025 3:26:42 PM	Peak Integrated by Software
Q1726-05DL2	VL042391.D	m/p-Xylene	SAM	4/21/2025 7:56:45 AM	MMDadoda	4/21/2025 3:26:44 PM	Peak Integrated by Software
Q1726-05DL2	VL042391.D	Toluene	SAM	4/21/2025 7:56:45 AM	MMDadoda	4/21/2025 3:26:44 PM	Peak Integrated by Software
Q1726-06DL2	VL042392.D	Toluene	SAM	4/21/2025 7:56:17 AM	MMDadoda	4/21/2025 3:26:46 PM	Peak Integrated by Software
Q1726-06DL2D UP	VL042393.D	Toluene	SAM	4/21/2025 7:56:21 AM	MMDadoda	4/21/2025 3:26:48 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 # VL041825

Review By	Semsettin Yesilyurt	Review On	4/21/2025 8:00:40 AM		
Supervise By	Maresh Dadoda	Supervise On	4/21/2025 3:26:51 PM		
SubDirectory	VL041825	HP Acquire Method	TO15AIR.M	HP Processing Method	VL041725AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2602			
Initial Calibration Stds		AP2598,AP2599,AP2600			
CCC		AP2598			
Internal Standard/PEM		AP2602			
ICV/I.BLK		AP2601			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042382.D	18 Apr 2025 07:51	SY/MD	Ok
2	VSTDCCC010	VL042383.D	18 Apr 2025 10:23	SY/MD	Ok,M
3	VL0418ABL01	VL042384.D	18 Apr 2025 10:54	SY/MD	Ok
4	VL0418ABS01	VL042385.D	18 Apr 2025 11:38	SY/MD	Ok,M
5	Q1726-07DL2	VL042386.D	18 Apr 2025 12:09	SY/MD	Ok,M
6	Q1726-01DL2	VL042387.D	18 Apr 2025 12:41	SY/MD	Ok,M
7	Q1726-02DL2	VL042388.D	18 Apr 2025 13:12	SY/MD	Ok,M
8	Q1726-04DL2	VL042389.D	18 Apr 2025 13:43	SY/MD	Ok,M
9	Q1726-03DL2	VL042390.D	18 Apr 2025 14:14	SY/MD	Ok,M
10	Q1726-05DL2	VL042391.D	18 Apr 2025 14:45	SY/MD	Ok,M
11	Q1726-06DL2	VL042392.D	18 Apr 2025 15:16	SY/MD	Ok,M
12	Q1726-06DL2DUP	VL042393.D	18 Apr 2025 15:47	SY/MD	Ok,M

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	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			

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 100X	SY/MD	Dilution
34	Q1726-06DL	IA-B2-3-03312025DL	VL042381.D	18 Apr 2025 04:05	Need 100X	SY/MD	Dilution

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL041825

Review By	Semsettin Yesilyurt	Review On	4/21/2025 8:00:40 AM
Supervise By	Maresh Dadoda	Supervise On	4/21/2025 3:26:51 PM
SubDirectory	VL041825	HP Acquire Method	TO15AIR.M HP Processing Method VL041725AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2602
Initial Calibration Stds	AP2598,AP2599,AP2600
CCC	AP2598
Internal Standard/PEM	AP2602
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	VL042382.D	18 Apr 2025 07:51		SY/MD	Ok
2	VSTDCCC010	VSTDCCC010	VL042383.D	18 Apr 2025 10:23		SY/MD	Ok,M
3	VL0418ABL01	VL0418ABL01	VL042384.D	18 Apr 2025 10:54		SY/MD	Ok
4	VL0418ABS01	VL0418ABS01	VL042385.D	18 Apr 2025 11:38		SY/MD	Ok,M
5	Q1726-07DL2	IA-B2-4-03312025DL2	VL042386.D	18 Apr 2025 12:09		SY/MD	Ok,M
6	Q1726-01DL2	IA-DUP-3-03312025DL2	VL042387.D	18 Apr 2025 12:41		SY/MD	Ok,M
7	Q1726-02DL2	IA-B2-6-03312025DL2	VL042388.D	18 Apr 2025 13:12		SY/MD	Ok,M
8	Q1726-04DL2	IA-B2-5-03312025DL2	VL042389.D	18 Apr 2025 13:43		SY/MD	Ok,M
9	Q1726-03DL2	IA-B2-2-03312025DL2	VL042390.D	18 Apr 2025 14:14		SY/MD	Ok,M
10	Q1726-05DL2	IA-B2-1-03312025DL2	VL042391.D	18 Apr 2025 14:45		SY/MD	Ok,M
11	Q1726-06DL2	IA-B2-3-03312025DL2	VL042392.D	18 Apr 2025 15:16		SY/MD	Ok,M
12	Q1726-06DL2DUP	IA-B2-3-03312025DL2	VL042393.D	18 Apr 2025 15:47		SY/MD	Ok,M

M : Manual Integration

Prep Standard - Chemical Standard Summary

Order ID : Q1726

Test : TO-15

Prepbatch ID :

Sequence ID/Qc Batch ID: vI041725,VL041825,

Standard ID :

AP2590,AP2598,AP2599,AP2600,AP2601,AP2602,

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

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>
2396	TO-15 15 PPBV CAL MIX	AP2601	04/16/2025	05/17/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								04/18/2025

FROM 1455.00000SCCM of A1117 + 45.00000SCCM of A1137 = 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>
47	Internal Standard/Surrogate Mix-80 ppbv	AP2602	04/18/2025	05/18/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								04/22/2025

FROM 2.40000psi of A1135 + 27.60000psi of A1117 = 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

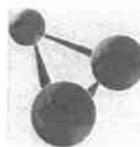
QA Signature: 

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	

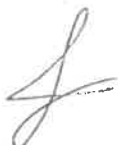
NOTES: Blend Tolerance: +/- 20 %
Analytical Tolerance: +/- 10 %
Traceability: NIST by weight set. NIST Traceability No MT001810.
Internal Standards by analysis
Reactive Mixtures: Analyzed twice with required agreement between analyses of 2%.
Required wait time between analyses of >7 days.
Caution: Do not use below 150 PSIG.

Analyst Name: Joseph A. Ernst

QA Signature: 

Signature:

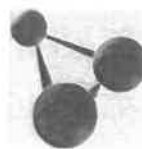
Date: 07/16/2024



*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

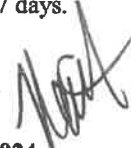
Customer Number	Ship VIA	Job No.	Customer PO	Mixture Type
00107092NJ	Best Way	040424-003	240404-10	Gravimetric

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	

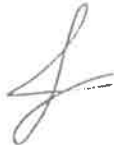
NOTES: Blend Tolerance: +/- 20 %
Analytical Tolerance: +/- 10 %
Traceability: NIST by weight set. NIST Traceability No MT001810.
Internal Standards by analysis
Reactive Mixtures: Analyzed twice with required agreement between analyses of 2%.
Required wait time between analyses of >7 days.
Caution: Do 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 : Q1726

Date	Bottle ID	Lab Sample Number	InComing Vacuum	Canister ID	Can Size	Reg ID	Reg Size	Batch Code	Certification ID
04/08/2025	B2502051	Q1726-04	-1.8	10054	6 L	10785		C2503003	VL042145.D Seq :VL031425 TUNE : VL042140.D ICAL : VL042046.D CCAL : VL042141.D MB : VL042142.D
04/07/2025	B2503044	Q1726-06	-6.7	10590	6 L	10577		C2503007	VL042182.D Seq :VL032725 TUNE : VL042171.D ICAL : VL042177.D CCAL : VL042172.D MB : VL042180.D
04/07/2025	B2503044	Q1726-07	-5.5	10448	6 L	10567		C2503007	VL042182.D Seq :VL032725 TUNE : VL042171.D ICAL : VL042177.D CCAL : VL042172.D MB : VL042180.D
04/07/2025	B2503044	Q1726-03	-7.1	10410	6 L	10506		C2503007	VL042182.D Seq :VL032725 TUNE : VL042171.D ICAL : VL042177.D CCAL : VL042172.D MB : VL042180.D
04/07/2025	B2503044	Q1726-05	-5.1	10295	6 L	10537		C2503007	VL042182.D Seq :VL032725 TUNE : VL042171.D ICAL : VL042177.D CCAL : VL042172.D MB : VL042180.D
04/07/2025	B2502051	Q1726-01	-1.8	10597	6 L	10771		C2503001	VL042143.D Seq :VL031425 TUNE : VL042140.D ICAL : VL042046.D CCAL : VL042141.D MB : VL042142.D

Process Report

Order ID : Q1726

Date	Bottle ID	Lab Sample Number	InComing Vacuum	Canister ID	Can Size	Reg ID	Reg Size	Batch Code	Certification ID
04/07/2025	B2502051	Q1726-02	-6.7	10280	6 L	10508		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 : 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



Canister Cleaning

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

Canister Batch : C2503003

Type of Canister : 6 L

Cleaning Date : 03/13/2025

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
10153	-30	03/14/2025	03/14/2025	-30	03/17/2025	Q1725-01	10266	VL042145.D
10321	-30	03/14/2025	03/14/2025	-30	03/17/2025	Q1725-02	10266	VL042145.D
10329	-30	03/14/2025	03/14/2025	-30	03/17/2025	Q1718-02	10266	VL042145.D
10266	-30	03/14/2025	03/14/2025	-30	03/17/2025	Q1665-15	10266	VL042145.D
10054	-30	03/14/2025	03/14/2025	-30	03/17/2025	Q1726-04	10266	VL042145.D
10303	-30	03/14/2025	03/14/2025	-30	03/17/2025	Q1725-07	10266	VL042145.D
10296	-30	03/14/2025	03/14/2025	-30	03/17/2025	Q1725-03	10266	VL042145.D
10279	-30	03/14/2025	03/14/2025	-30	03/17/2025	Q1725-05	10266	VL042145.D



Canister Cleaning

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

Canister Batch : C2503007

Type of Canister : 6 L

Cleaning Date : 03/26/2025

Analyst : SAM

Oven Temperature : 125.0 c

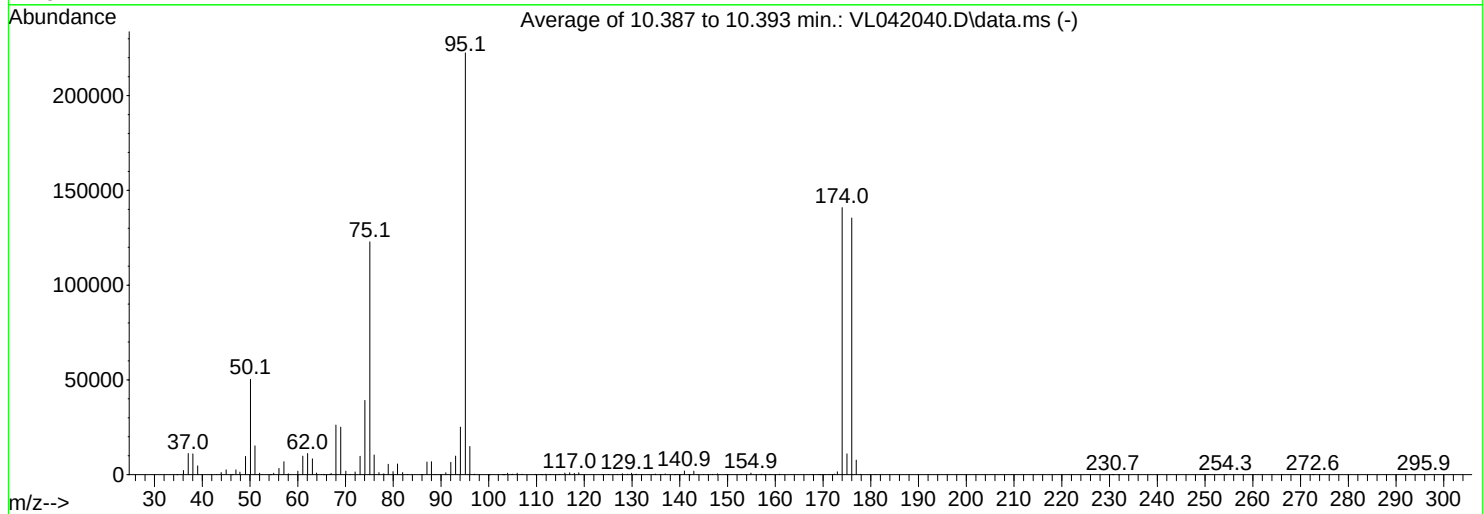
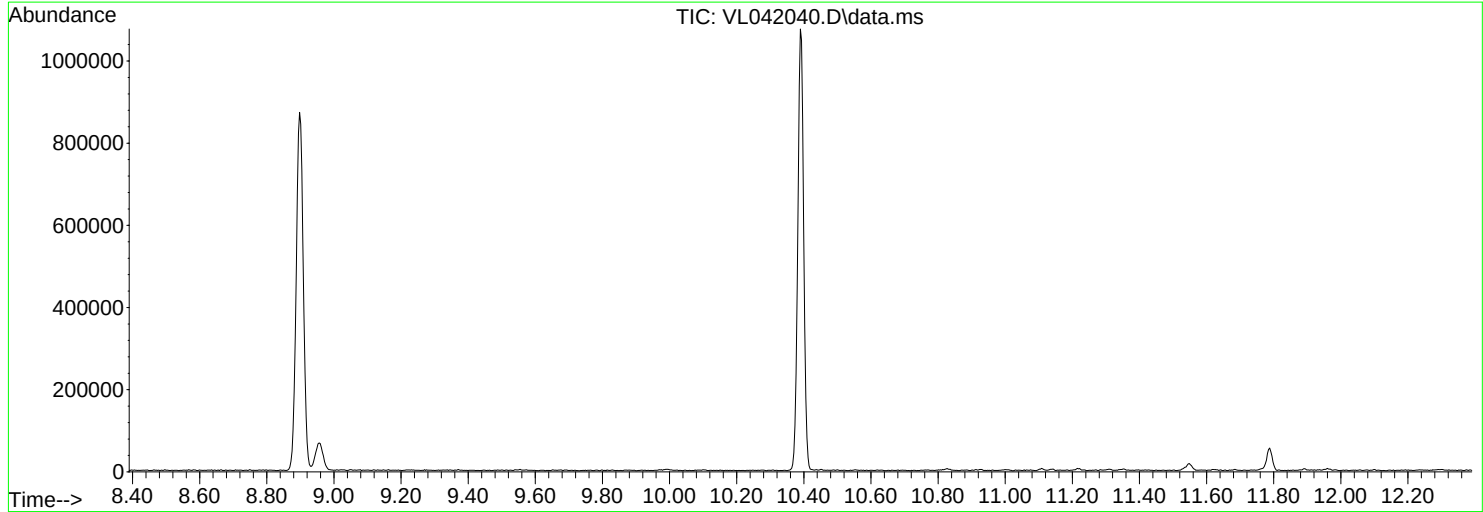
Canister	Vaccum After Cleaning ("Hg)	Vaccum After Cleaning Date	Analysis Date	VAC 24Hr ("Hg)	Vaccum After 24hr Date	New Sample Number	QC Canister	File
10609	-30	03/27/2025	03/27/2025	-30	03/28/2025	Q1718-03	10448	VL042182.D
10410	-30	03/27/2025	03/27/2025	-30	03/28/2025	Q1726-03	10448	VL042182.D
10448	-30	03/27/2025	03/27/2025	-30	03/28/2025	Q1726-07	10448	VL042182.D
10295	-30	03/27/2025	03/27/2025	-30	03/28/2025	Q1726-05	10448	VL042182.D
10590	-30	03/27/2025	03/27/2025	-30	03/28/2025	Q1726-06	10448	VL042182.D
10605	-30	03/27/2025	03/27/2025	-30	03/28/2025	Q1725-04	10448	VL042182.D

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

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_L Fri 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	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

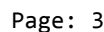
Response via : Initial Calibration

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

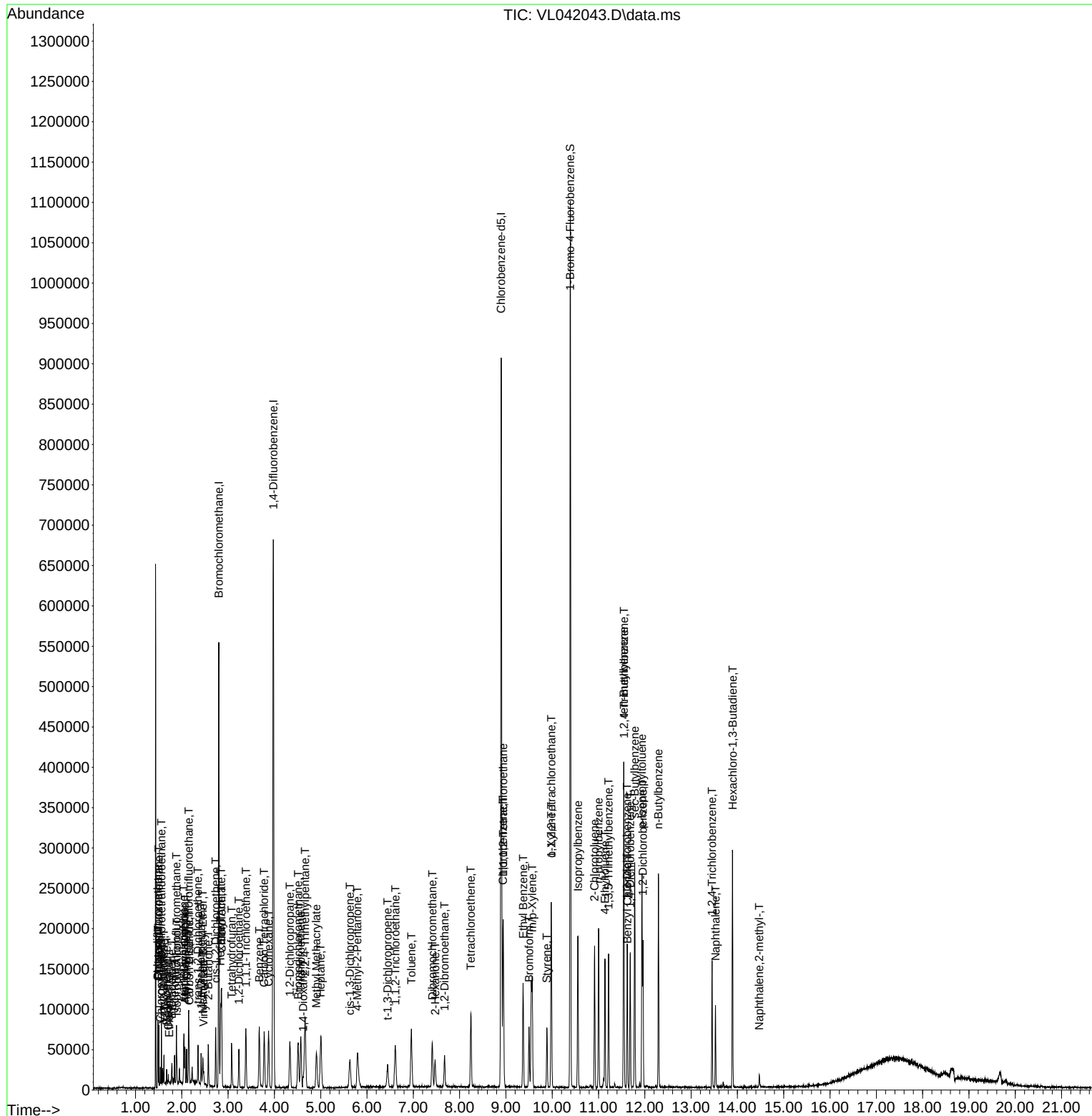
Quant Time: Feb 25 10:27:35 2025

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 : 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 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

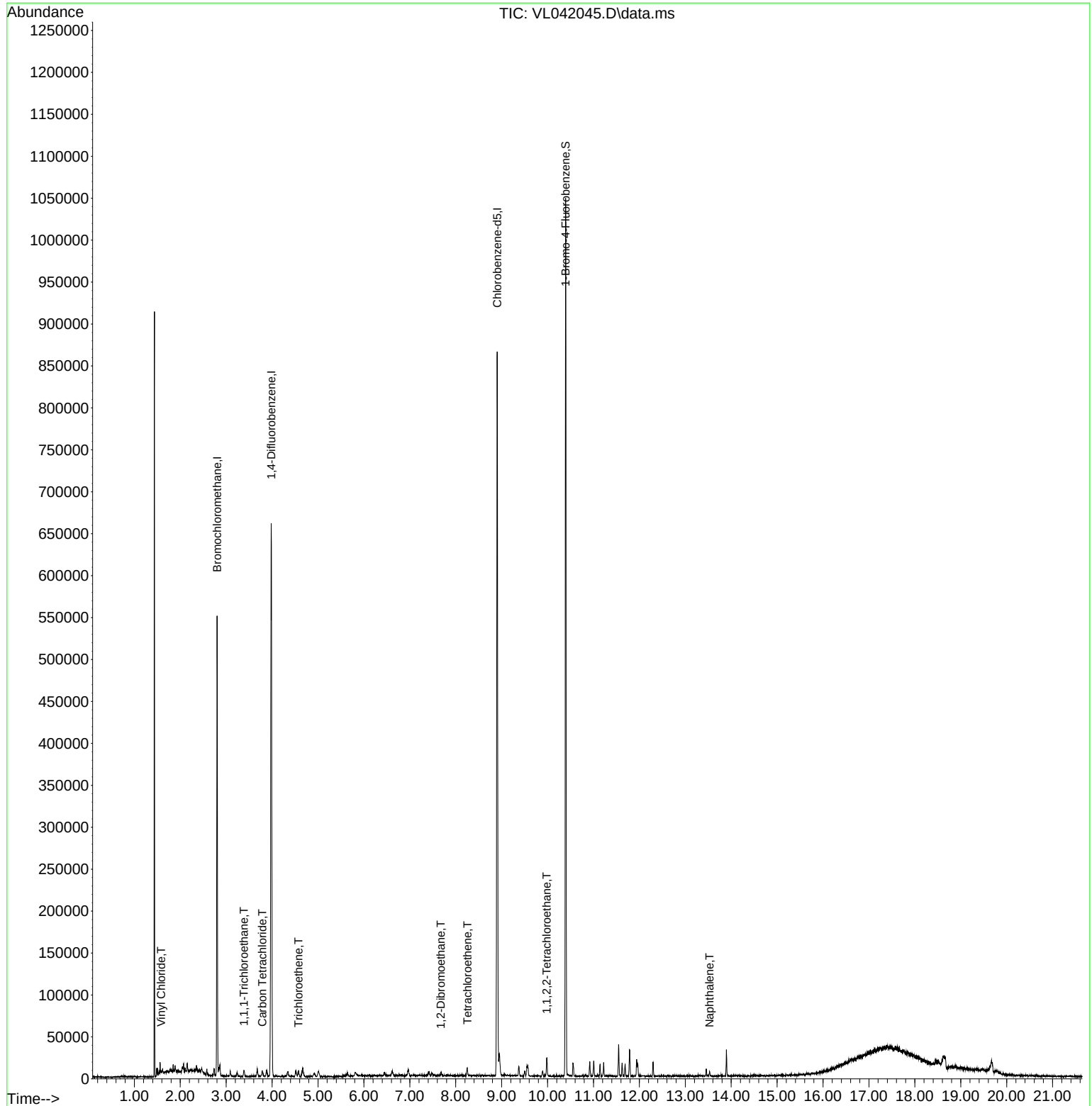
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042045.D
Acq On : 25 Feb 2025 11:03
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

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 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	2.797	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

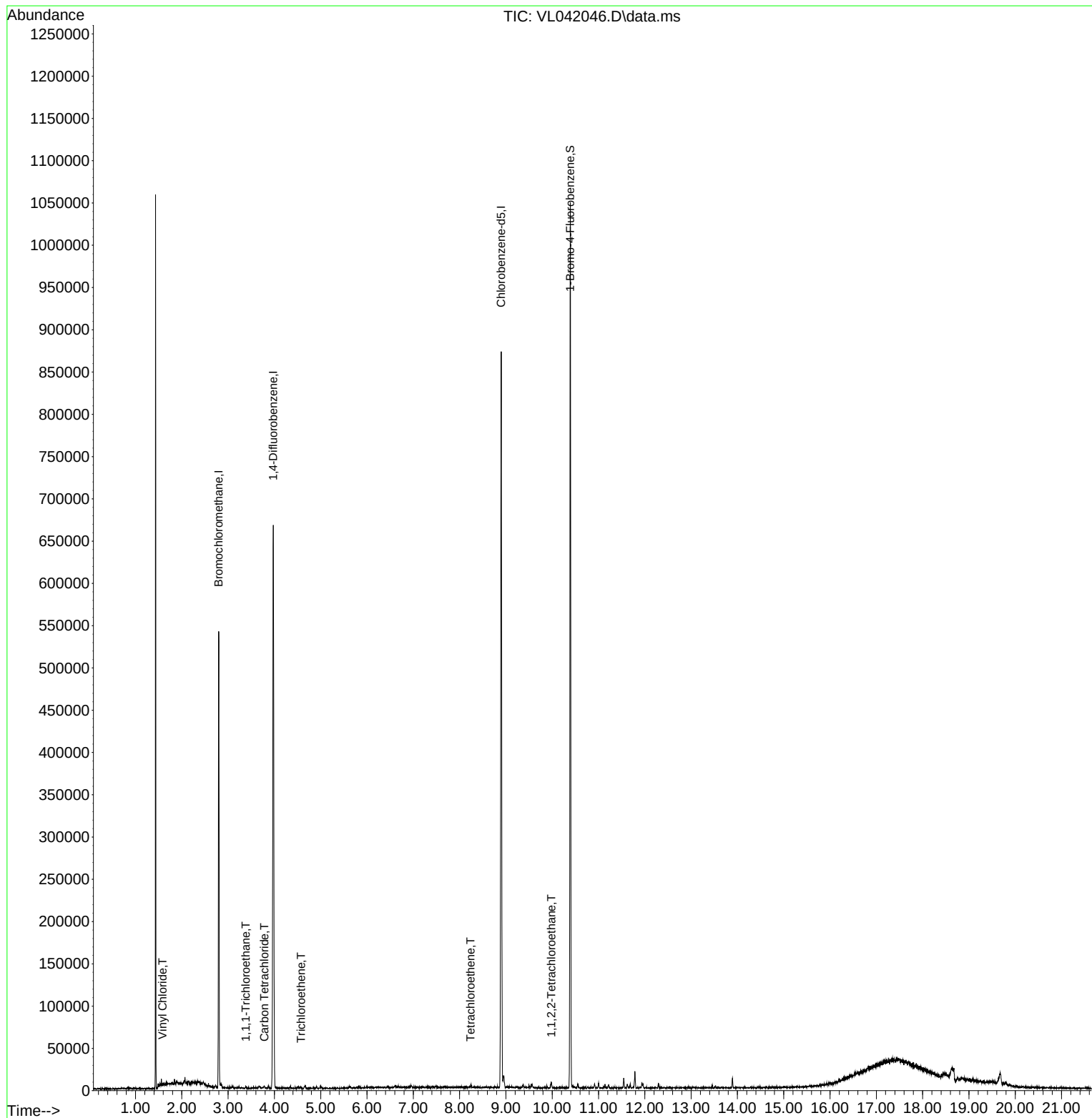
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042046.D
Acq On : 25 Feb 2025 11:34
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

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

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025
Supervised By : Mahesh Dadoda 02/26/2025



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

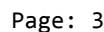
Response via : Initial Calibration

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

Manual Integrations

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_LFri 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 : 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

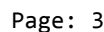
Response via : Initial Calibration

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 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)
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

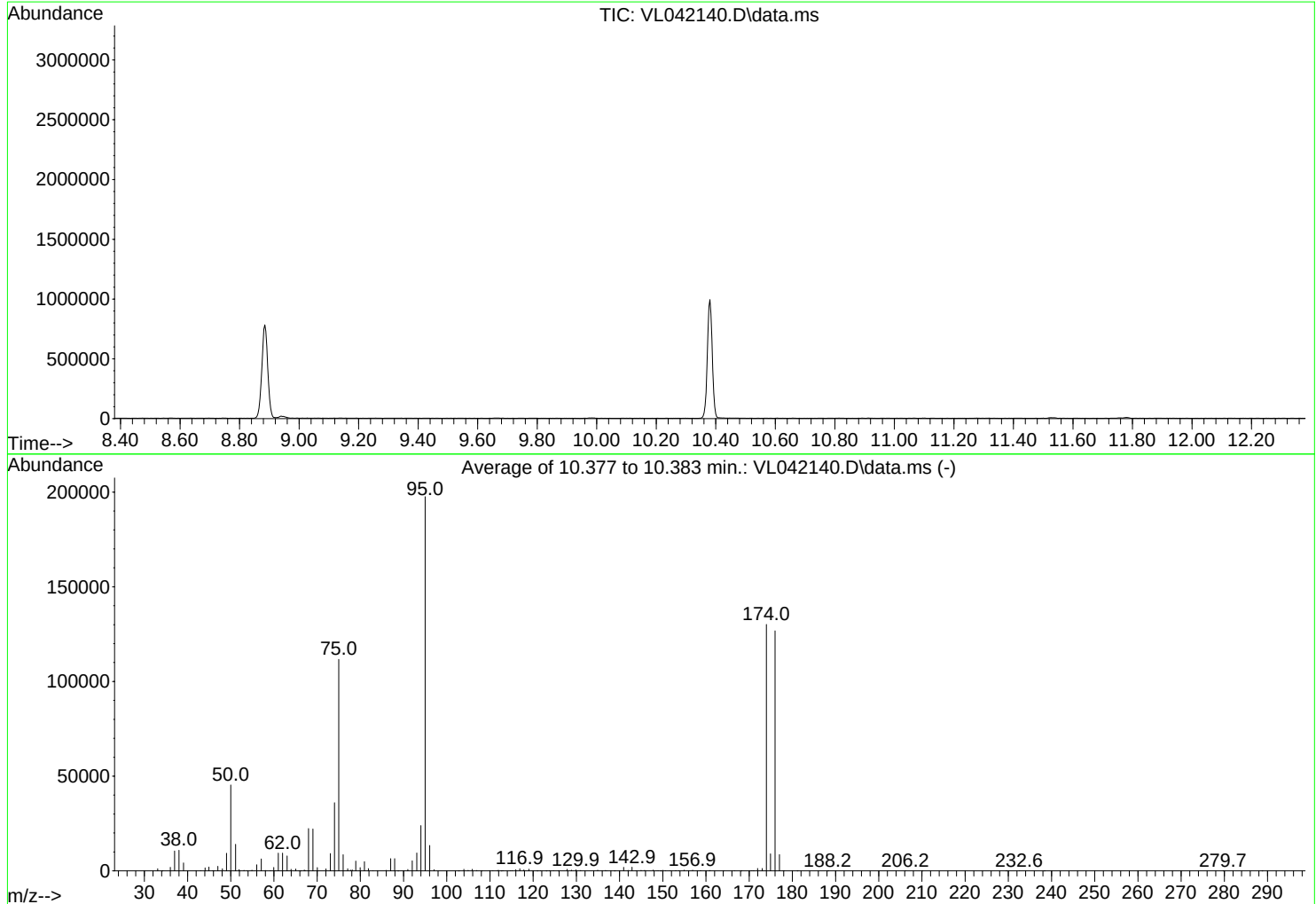
SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\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_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	5.603	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 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	2.787	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%

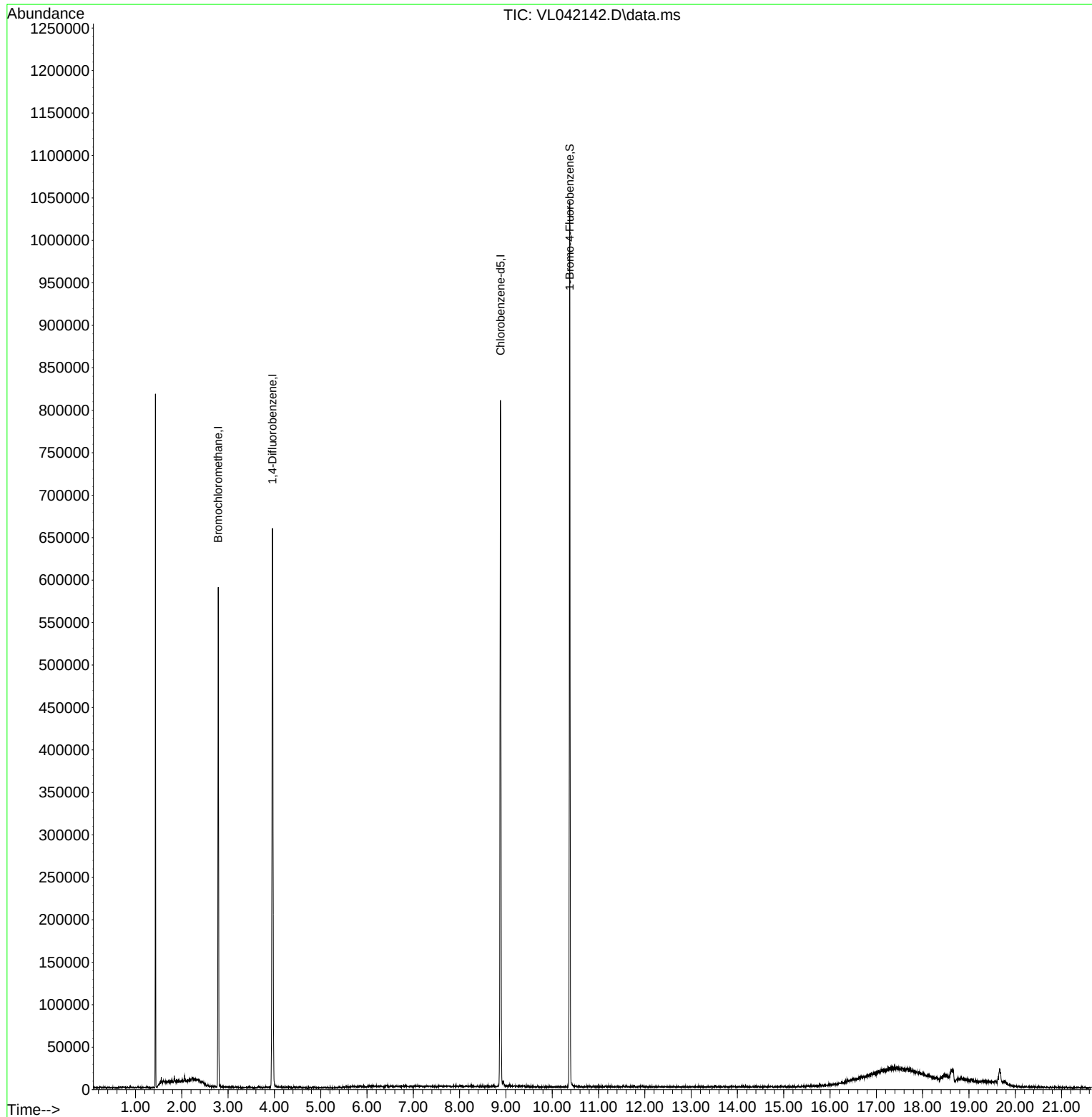
Target Compounds	Qvalue

(#) = 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%

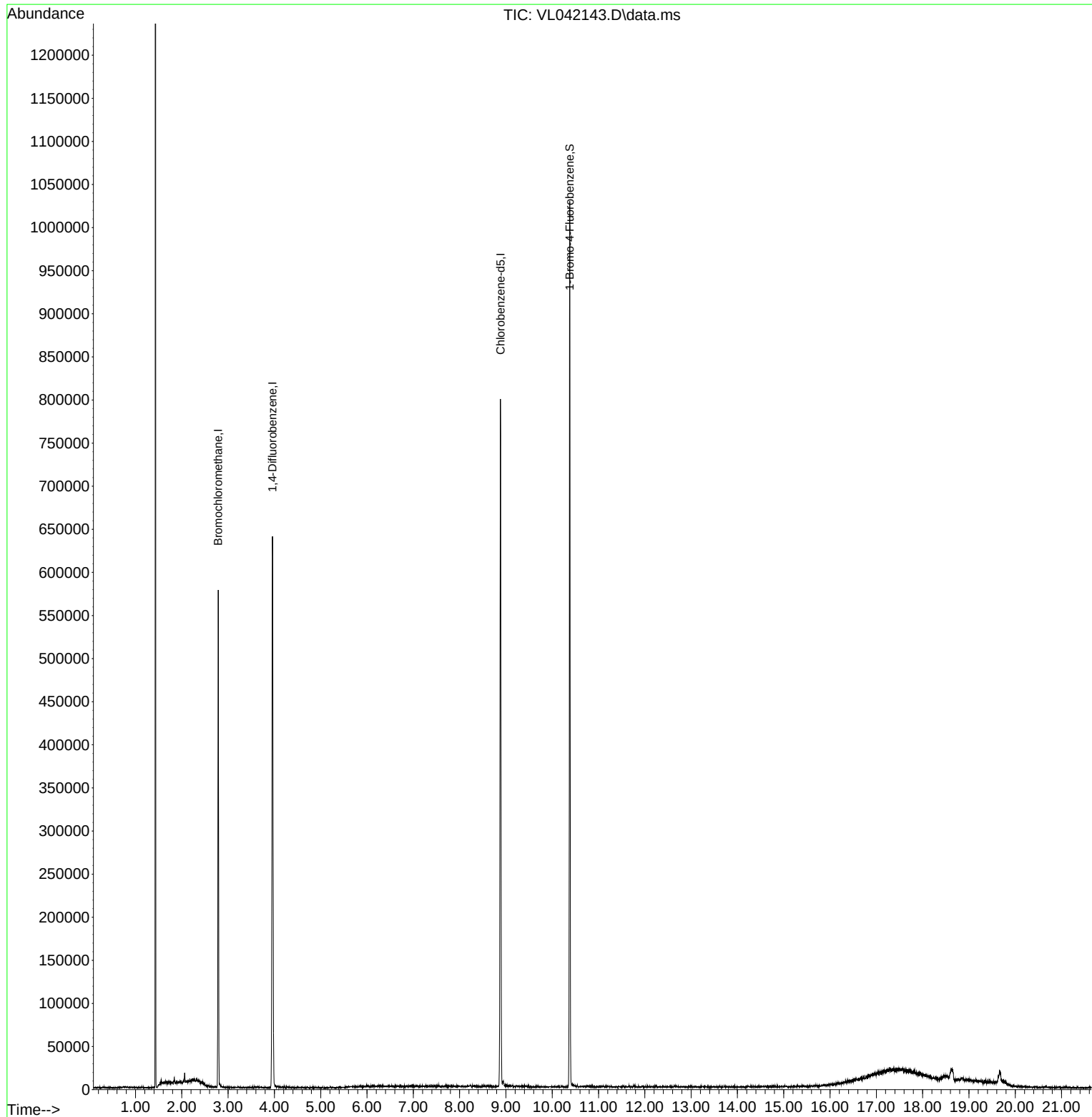
Target Compounds	Qvalue

(#) = 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 : VL042145.D
 Acq On : 14 Mar 2025 11:11
 Operator : SY/MD
 Sample : QC031325 CAN 10266
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 QC031325 CAN 10266

Quant Time: Mar 15 06:25:42 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	2.784	49	156307	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	3.955	114	350286	10.000	ppbv	-0.02
55) Chlorobenzene-d5	8.878	117	303615	10.000	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	230207	9.855	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.600%

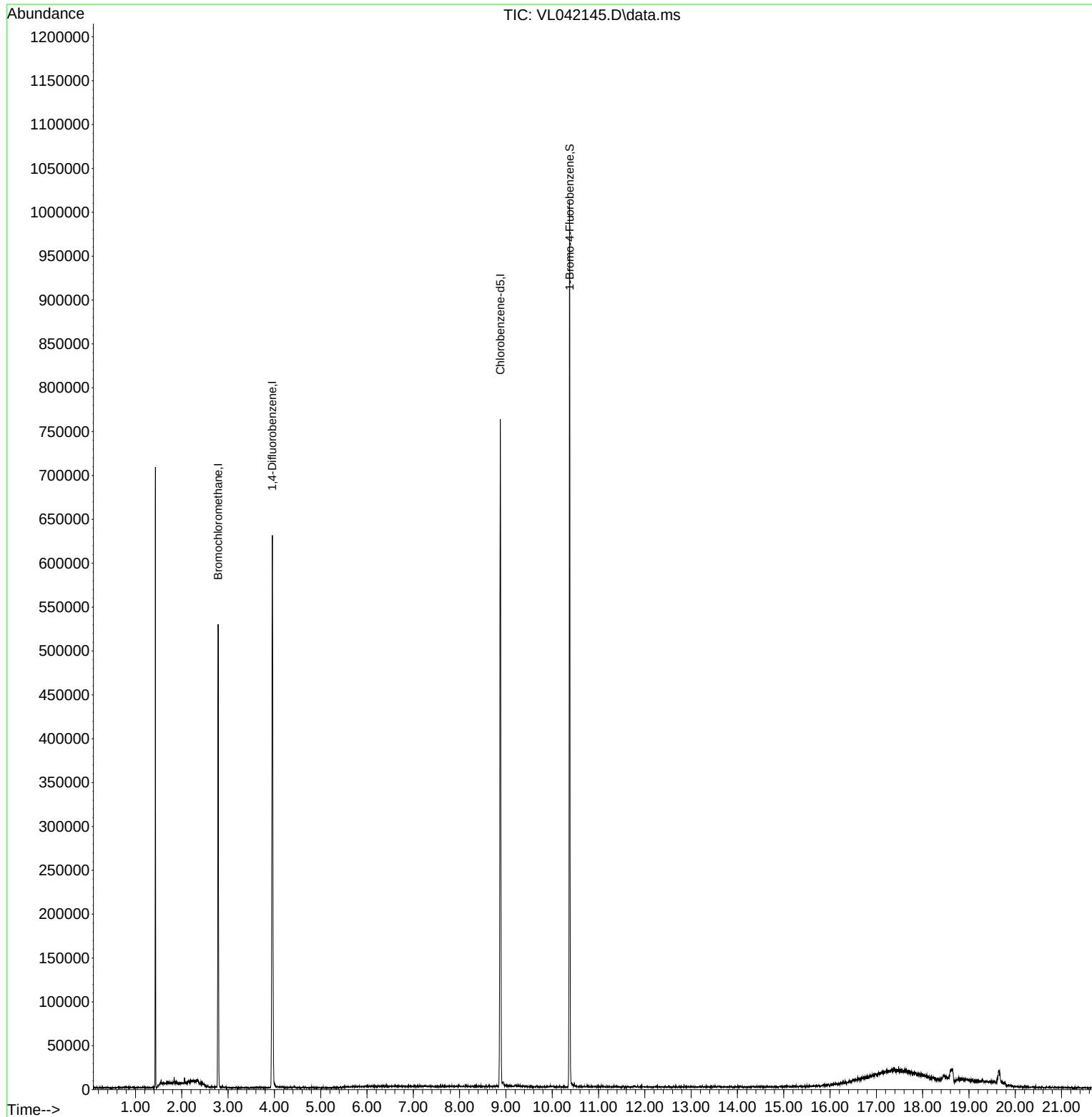
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031425\
Data File : VL042145.D
Acq On : 14 Mar 2025 11:11
Operator : SY/MD
Sample : QC031325 CAN 10266
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC031325 CAN 10266

Quant Time: Mar 15 06:25:42 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

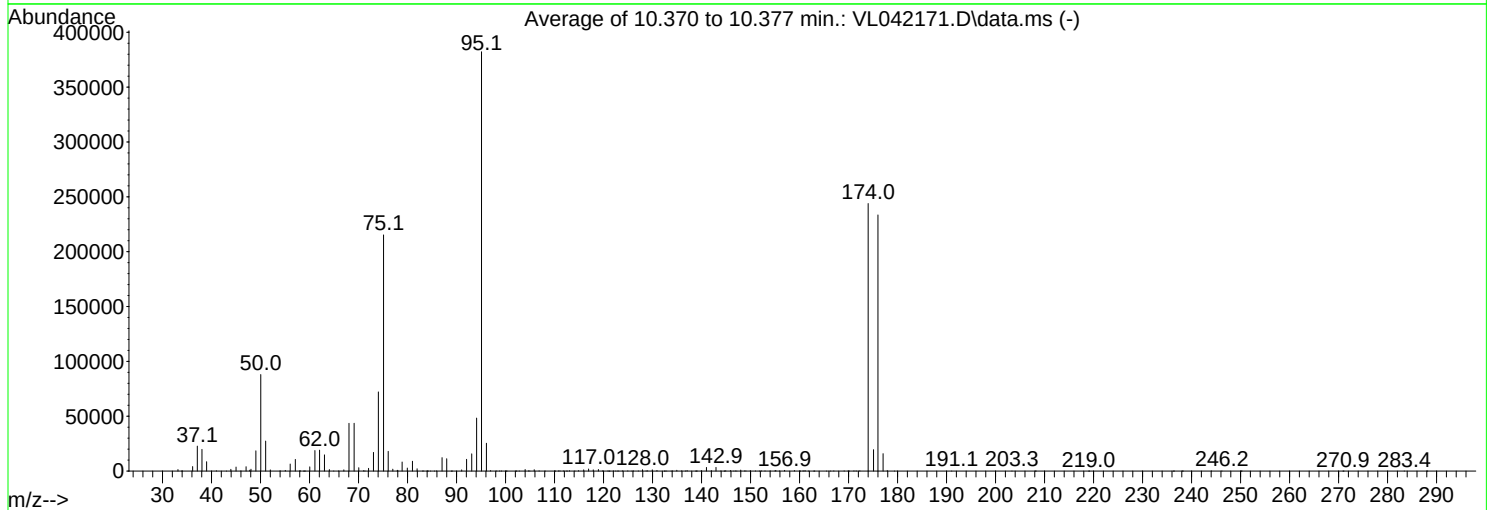
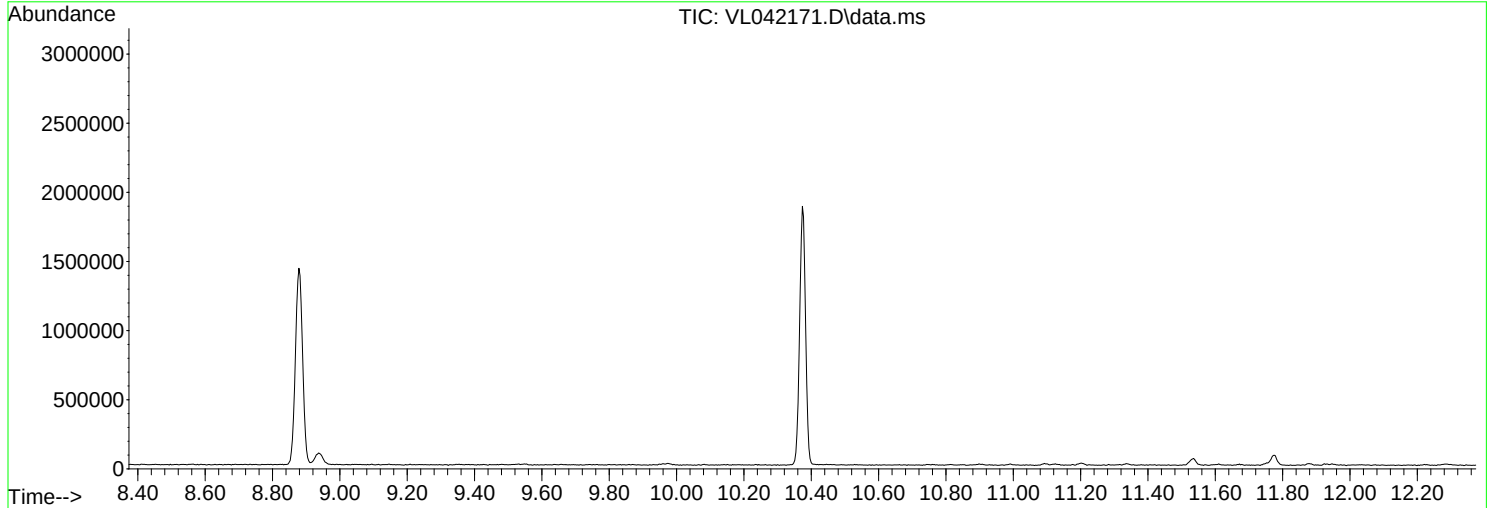
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042171.D
Acq On : 27 Mar 2025 07:44
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\VL032725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Fri Mar 28 02:00:52 2025



AutoFind: Scans 3177, 3178, 3179; Background Corrected with Scan 3150

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	23.0	87995	PASS
75	95	30	66	56.3	215296	PASS
95	95	100	100	100.0	382268	PASS
96	95	5	9	6.6	25383	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	63.8	243904	PASS
175	174	4	9	8.0	19539	PASS
176	174	93	101	95.7	233493	PASS
177	176	5	9	6.8	15877	PASS

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\

Method File : VL032725AIR.M

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

Last Update : Fri Mar 28 02:00:52 2025

Response Via : Initial Calibration

Calibration Files

0.03=VL042177.D 0.1 =VL042176.D 0.5 =VL042175.D 1 =VL042174.D 2 =VL042173.D 10 =VL042172.D 15 =VL042178.D

Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD

1) I Bromochloromethane	-----ISTD-----								
2) T Dichlorodifluo...			1.602	1.514	1.482	1.404	1.380	1.476	6.03
3) Chlorodifluoro...			1.622	1.541	1.514	1.457	1.408	1.508	5.41
4) Chloromethane			0.660	0.597	0.618	0.573	0.570	0.603	6.17
5) T Vinyl Chloride	0.882	0.705	0.635	0.576	0.584	0.549	0.546	0.639	18.84
6) T Bromomethane			0.327	0.268	0.266	0.256	0.250	0.273	11.20
7) Chloroethane			0.286	0.248	0.223	0.227	0.226	0.242	10.92
8) T Dichlorotetra...			1.306	1.283	1.274	1.214	1.211	1.257	3.40
9) T Propene			0.734	0.736	0.698	0.660	0.630	0.691	6.69
10) T Heptane			1.847	1.940	1.897	1.792	1.719	1.839	4.73
11) T Trichlorofluor...			1.562	1.457	1.480	1.339	1.346	1.437	6.59
12) T 1,1,2-Trichlor...			1.247	1.215	1.188	1.120	1.135	1.181	4.52
13) Ethanol			0.110	0.086	0.073	0.029	0.028	0.065	55.48
14) T Bromoethene			0.529	0.447	0.460	0.417	0.409	0.452	10.47
15) T Acetone			1.699	1.573	1.469	1.113	1.139	1.399	18.73
16) T 1,3-Butadiene			0.952	0.705	0.608	0.573	0.577	0.683	23.38
17) tert-Butyl alc...			1.935	1.799	1.756	1.618	1.601	1.742	7.91
18) T 1,1-Dichloroet...			0.624	0.565	0.560	0.504	0.507	0.552	8.99
19) T Isopropyl Alcohol			1.016	0.800	0.738	0.702	0.689	0.789	16.99
20) T Methylene Chlo...			0.624	0.563	0.545	0.438	0.435	0.521	15.85
21) T Allyl Chloride			1.067	1.022	1.020	0.902	0.921	0.986	7.25
22) T trans-1,2-Dich...			0.704	0.701	0.621	0.590	0.575	0.638	9.56
23) T Vinyl Acetate			0.754	0.692	0.550	0.498	0.532	0.605	18.40
24) T 1,1-Dichloroet...			1.247	1.208	1.187	1.122	1.149	1.183	4.17
25) T Ethyl Acetate			4.017	3.619	3.703	3.457	3.353	3.630	7.06
26) T Hexane			1.507	1.462	1.383	1.333	1.325	1.402	5.71
27) T Carbon Disulfide			1.608	1.512	1.538	1.436	1.423	1.503	5.07
28) T Methyl tert-Bu...			0.921	0.886	0.894	0.831	0.832	0.873	4.56
29) T Chloroform			2.233	2.068	2.071	1.932	1.956	2.052	5.81
30) T Cyclohexane			1.337	1.238	1.211	1.162	1.140	1.217	6.33
31) T cis-1,2-Dichlo...			1.507	1.460	1.426	1.371	1.353	1.423	4.44
32) T 1,1,1-Trichlor...	3.151	2.495	2.279	2.201	2.152	2.062	2.105	2.349	16.23

33) I 1,4-Difluorobenzene	-----ISTD-----								
34) T 2-Butanone			0.754	0.771	0.770	0.667	0.664	0.725	7.58
35) T Carbon Tetrach...	1.069	0.782	0.709	0.732	0.748	0.703	0.725	0.781	16.60
36) T Benzene			1.049	1.027	1.013	0.934	0.934	0.991	5.47
37) T 1,2-Dichloroet...			0.613	0.569	0.563	0.537	0.556	0.568	4.95
38) T Trichloroethene	0.463	0.437	0.438	0.408	0.398	0.374	0.378	0.414	8.00
39) T 1,2-Dichloropr...			0.386	0.373	0.365	0.337	0.344	0.361	5.68

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\										
Method File : VL032725AIR.M										
40) T	1,4-Dioxane			0.234	0.197	0.191	0.169	0.167	0.192	14.08
41) T	Tetrahydrofuran			0.439	0.425	0.432	0.398	0.393	0.418	4.98
42) T	Bromodichlorom...			0.778	0.779	0.802	0.769	0.785	0.782	1.58
43) T	Methyl Methacr...			0.442	0.451	0.408	0.403	0.394	0.420	6.03
44) T	2,2,4-Trimethy...			1.781	1.689	1.723	1.608	1.576	1.675	5.00
45) T	t-1,3-Dichloro...			0.474	0.447	0.453	0.439	0.440	0.450	3.15
46) T	cis-1,3-Dichlo...			0.549	0.560	0.566	0.550	0.535	0.552	2.12
47) T	1,1,2-Trichlor...			0.419	0.382	0.379	0.364	0.365	0.382	5.88
48) T	Dibromochlorom...			0.651	0.641	0.663	0.636	0.644	0.647	1.62
49) T	Bromoform			0.566	0.588	0.597	0.582	0.570	0.581	2.18
50) T	4-Methyl-2-Pen...			1.286	1.214	1.211	1.027	1.008	1.149	10.79
51) T	2-Hexanone			0.999	1.018	1.031	0.844	0.827	0.944	10.56
52) T	Tetrachloroethene	0.572	0.359	0.401	0.361	0.371	0.343	0.345	0.393	20.64
53) T	Toluene			1.239	1.203	1.202	1.125	1.108	1.175	4.76
54) T	1,2-Dibromoethane	0.574		0.543	0.538	0.520	0.508	0.510	0.532	4.74
-----ISTD-----										
55) I	Chlorobenzene-d5									
56) T	1,1,1,2-Tetrac...			0.576	0.575	0.576	0.510	0.515	0.550	6.30
57) T	Chlorobenzene			1.024	0.979	0.994	0.875	0.871	0.949	7.46
58) T	Ethyl Benzene			1.850	1.822	1.894	1.671	1.645	1.776	6.28
59) T	m/p-Xylene			1.505	1.472	1.484	1.321	1.309	1.418	6.71
60) T	o-Xylene			1.521	1.475	1.499	1.328	1.287	1.422	7.50
61) T	Styrene			0.709	0.722	0.735	0.683	0.668	0.703	3.92
62) T	Isopropylbenzene			2.290	2.199	2.261	1.962	1.920	2.126	8.14
63) T	1,1,2,2-Tetrac...	0.986	0.800	0.907	0.889	0.893	0.796	0.777	0.864	8.78
64) T	n-propylbenzene			0.578	0.581	0.576	0.499	0.502	0.547	7.81
65) T	tert-Butylbenzene			2.190	2.071	2.144	1.736	1.691	1.966	11.96
66) T	Benzyl Chloride			0.217	0.213	0.221	0.203	0.189	0.209	6.06
67) T	sec-Butylbenzene			3.005	2.994	2.947	2.404	2.316	2.733	12.54
68) S	1-Bromo-4-Fluo...	0.820	0.827	0.832	0.810	0.828	0.813	0.820	0.821	0.98
69) T	p-Isopropyltol...			2.554	2.551	2.560	2.078	2.025	2.354	11.74
70) T	n-Butylbenzene			2.536	2.598	2.682	2.137	2.082	2.407	11.51
71) T	2-Chlorotoluene			1.717	1.728	1.759	1.538	1.510	1.650	7.07
72) T	4-Ethyltoluene			1.834	1.859	1.929	1.629	1.601	1.770	8.26
73) T	1,3,5-Trimethy...			1.616	1.671	1.677	1.387	1.381	1.546	9.71
74) T	1,2,4-Trimethy...			1.994	1.958	1.966	1.510	1.478	1.781	14.74
75) T	1,3-Dichlorobe...			1.036	1.022	1.063	0.882	0.882	0.977	8.99
76) T	1,4-Dichlorobe...			1.030	1.017	1.040	0.888	0.886	0.972	8.05
77) T	1,2-Dichlorobe...			1.012	1.031	1.014	0.850	0.850	0.951	9.78
78) T	Hexachloro-1,3...			1.057	1.113	1.086	0.802	0.784	0.968	16.65
79) T	Naphthalene	1.637		1.979	2.181	2.314	1.806	1.773	1.948	13.31
80) T	Naphthalene,2-...			0.721	0.891	1.163	0.990	1.013	0.955	17.09
81) T	1,2,4-Trichlor...			0.821	0.941	1.028	0.859	0.843	0.899	9.51

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042172.D
 Acq On : 27 Mar 2025 08:26
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

Quant Time: Mar 28 01:31:57 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 01:31:23 2025

Response via : Initial Calibration

Reviewed By : Semsettin Yesilyurt 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025

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

Internal Standards						
1) Bromochloromethane	2.784	49	187002	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	545068	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	519536	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.371	95	422410	9.901	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.000%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.496	85	262496	9.507	ppbv	100
3) Chlorodifluoromethane	1.473	51	272522	9.662	ppbv	100
4) Chloromethane	1.531	50	107099	9.491	ppbv	100
5) Vinyl Chloride	1.577	62	102699	8.925	ppbv	100
6) Bromomethane	1.664	94	47950	9.377	ppbv	100
7) Chloroethane	1.703	64	42516	9.387	ppbv	100
8) Dichlorotetrafluoroethane	1.551	85	227041	9.656	ppbv	100
9) Propene	1.483	41	123386	9.709	ppbv	100
10) Heptane	4.972	43	335086	9.744	ppbv	100
11) Trichlorofluoromethane	1.874	101	250349	9.318	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.137	101	209365	9.481	ppbv	100
13) Ethanol	1.719	45	5338	5.364	ppbv	100
14) Bromoethene	1.777	108	77999	9.220	ppbv	100
15) Acetone	1.832	43	208061	7.955	ppbv	100
16) 1,3-Butadiene	1.606	39	107104	9.105	ppbv	100
17) tert-Butyl alcohol	2.036	59	302616	9.290	ppbv	100
18) 1,1-Dichloroethene	2.030	96	94236	9.128	ppbv	100
19) Isopropyl Alcohol	1.884	45	131359	8.902	ppbv	100
20) Methylene Chloride	2.059	84	81828	8.401	ppbv	100
21) Allyl Chloride	2.091	41	168602	9.141	ppbv	100
22) trans-1,2-Dichloroethene	2.337	96	110371	9.149	ppbv	100
23) Vinyl Acetate	2.460	43	93080	8.563	ppbv	100
24) 1,1-Dichloroethane	2.405	63	209753	9.484	ppbv	100
25) Ethyl Acetate	2.833	43	646501	9.524	ppbv	100
26) Hexane	2.823	57	249331	9.510	ppbv	100
27) Carbon Disulfide	2.146	76	268507	9.550	ppbv	100
28) Methyl tert-Butyl Ether	2.438	73	155398	9.520	ppbv	100
29) Chloroform	2.845	83	361264	9.415	ppbv	100
30) Cyclohexane	3.852	84	217215	9.537	ppbv	100
31) cis-1,2-Dichloroethene	2.716	61	256425	9.634	ppbv	100
32) 1,1,1-Trichloroethane	3.363	97	385628	8.784	ppbv	100
34) 2-Butanone	2.554	43	363735	9.203	ppbv	100
35) Carbon Tetrachloride	3.758	117	382925	9.129	ppbv	100
36) Benzene	3.651	78	508860	9.417	ppbv	100
37) 1,2-Dichloroethane	3.214	62	292937	9.469	ppbv	100
38) Trichloroethene	4.545	130	204027	9.045	ppbv	100
39) 1,2-Dichloropropane	4.312	63	183439	9.321	ppbv	100
40) 1,4-Dioxane	4.577	88	92327	9.042	ppbv #	100
41) Tetrahydrofuran	3.049	42	216851	9.643	ppbv	100
42) Bromodichloromethane	4.483	83	418887	9.822	ppbv	100
43) Methyl Methacrylate	4.872	69	219399	9.618	ppbv	100
44) 2,2,4-Trimethylpentane	4.635	57	876649	9.600	ppbv	100
45) t-1,3-Dichloropropene	6.406	75	239180	9.746	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042172.D
 Acq On : 27 Mar 2025 08:26
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

Quant Time: Mar 28 01:31:57 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 01:31:23 2025

Response via : Initial Calibration

Reviewed By : Semsettin Yesilyurt 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	300021	9.973	ppbv	100
47) 1,1,2-Trichloroethane	6.574	97	198176	9.526	ppbv	100
48) Dibromochloromethane	7.380	129	346499	9.828	ppbv	100
49) Bromoform	9.477	173	317189	10.021	ppbv	100
50) 4-Methyl-2-Pentanone	5.745	43	559800	8.934	ppbv	100
51) 2-Hexanone	7.432	43	460013	8.848	ppbv #	100
52) Tetrachloroethene	8.218	164	186912	8.722	ppbv	100
53) Toluene	6.927	91	613378	9.576	ppbv	100
54) 1,2-Dibromoethane	7.649	107	276797	9.536	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.917	131	265037	9.268	ppbv	100
57) Chlorobenzene	8.917	112	454511	9.223	ppbv	100
58) Ethyl Benzene	9.351	91	868003	9.406	ppbv	100
59) m/p-Xylene	9.549	91	1372806m	18.607	ppbv	
60) o-Xylene	9.960	91	689933	9.340	ppbv	100
61) Styrene	9.866	104	354697	9.706	ppbv	100
62) Isopropylbenzene	10.536	105	1019255	9.227	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.960	83	413392	9.210	ppbv	100
64) n-propylbenzene	10.986	120	259405	9.122	ppbv	100
65) tert-Butylbenzene	11.529	119	901951	8.828	ppbv	100
66) Benzyl Chloride	11.610	91	105411	9.724	ppbv	100
67) sec-Butylbenzene	11.766	105	1249106	8.796	ppbv	100
69) p-Isopropyltoluene	11.924	119	1079675	8.830	ppbv	100
70) n-Butylbenzene	12.277	91	1110351	8.879	ppbv	100
71) 2-Chlorotoluene	10.898	91	799102	9.320	ppbv	100
72) 4-Ethyltoluene	11.122	105	846232	9.200	ppbv	100
73) 1,3,5-Trimethylbenzene	11.199	105	720566	8.970	ppbv	100
74) 1,2,4-Trimethylbenzene	11.536	105	784745	8.480	ppbv	100
75) 1,3-Dichlorobenzene	11.604	146	458226	9.028	ppbv	100
76) 1,4-Dichlorobenzene	11.669	146	461371	9.134	ppbv	100
77) 1,2-Dichlorobenzene	11.944	146	441473	8.933	ppbv	100
78) Hexachloro-1,3-Butadiene	13.879	225	416735	8.284	ppbv	100
79) Naphthalene	13.510	128	938470	9.271	ppbv	100
80) Naphthalene,2-methyl-	14.455	142	514394	10.436	ppbv	100
81) 1,2,4-Trichlorobenzene	13.439	180	446420	9.561	ppbv	100

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

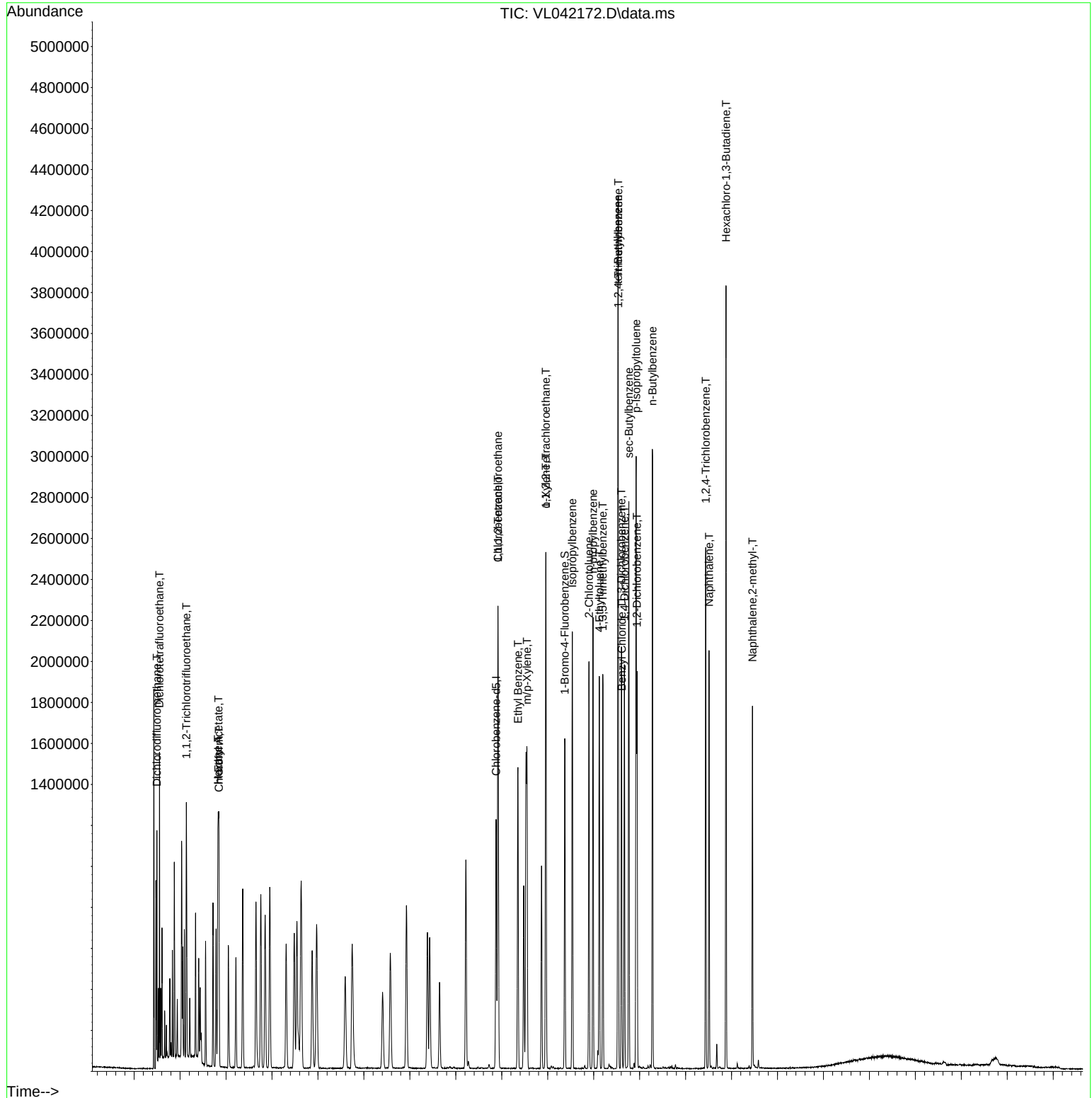
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042172.D
Acq On : 27 Mar 2025 08:26
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Quant Time: Mar 28 01:31:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 03/31/2025
Supervised By : Mahesh Dadoda 04/03/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042173.D
 Acq On : 27 Mar 2025 08:59
 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 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:32:52 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 01:31:23 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	188395	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	546394	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	504538	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.370	95	417532	10.077	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.800%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.496	85	55859	2.008	ppbv	99
3) Chlorodifluoromethane	1.473	51	57045	2.007	ppbv	99
4) Chloromethane	1.531	50	23293	2.049	ppbv	94
5) Vinyl Chloride	1.576	62	21989	1.897	ppbv	99
6) Bromomethane	1.664	94	10027	1.946	ppbv	98
7) Chloroethane	1.703	64	8413	1.844	ppbv	92
8) Dichlorotetrafluoroethane	1.551	85	48008	2.027	ppbv	98
9) Propene	1.483	41	26295	2.054	ppbv	94
10) Heptane	4.972	43	71466	2.063	ppbv	99
11) Trichlorofluoromethane	1.874	101	55754	2.060	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.136	101	44761	2.012	ppbv	98
13) Ethanol	1.719	45	2748m	2.741	ppbv	
14) Bromoethene	1.780	108	17323	2.033	ppbv #	89
15) Acetone	1.832	43	55365	2.101	ppbv	95
16) 1,3-Butadiene	1.606	39	22894	1.932	ppbv	95
17) tert-Butyl alcohol	2.039	59	66174	2.016	ppbv	100
18) 1,1-Dichloroethene	2.030	96	21103	2.029	ppbv	95
19) Isopropyl Alcohol	1.884	45	27804	1.870	ppbv #	35
20) Methylene Chloride	2.059	84	20518	2.091	ppbv	96
21) Allyl Chloride	2.094	41	38425	2.068	ppbv	99
22) trans-1,2-Dichloroethene	2.337	96	23384	1.924	ppbv	92
23) Vinyl Acetate	2.460	43	20736	1.894	ppbv #	97
24) 1,1-Dichloroethane	2.405	63	44740	2.008	ppbv	99
25) Ethyl Acetate	2.832	43	139516	2.040	ppbv	99
26) Hexane	2.823	57	52095	1.972	ppbv	92
27) Carbon Disulfide	2.146	76	57969	2.047	ppbv #	76
28) Methyl tert-Butyl Ether	2.437	73	33703	2.049	ppbv	99
29) Chloroform	2.845	83	78043	2.019	ppbv	95
30) Cyclohexane	3.852	84	45641	1.989	ppbv	99
31) cis-1,2-Dichloroethene	2.719	61	53713	2.003	ppbv	96
32) 1,1,1-Trichloroethane	3.363	97	81070	1.833	ppbv	99
34) 2-Butanone	2.554	43	84157	2.124	ppbv	99
35) Carbon Tetrachloride	3.758	117	81735	1.944	ppbv	96
36) Benzene	3.651	78	110727	2.044	ppbv	97
37) 1,2-Dichloroethane	3.214	62	61476	1.982	ppbv	97
38) Trichloroethene	4.541	130	43501	1.924	ppbv	97
39) 1,2-Dichloropropane	4.308	63	39912	2.023	ppbv	93
40) 1,4-Dioxane	4.587	88	20884m	2.040	ppbv	
41) Tetrahydrofuran	3.056	42	47262	2.097	ppbv	99
42) Bromodichloromethane	4.483	83	87640	2.050	ppbv	99
43) Methyl Methacrylate	4.878	69	44624	1.952	ppbv	97
44) 2,2,4-Trimethylpentane	4.632	57	188282	2.057	ppbv	100
45) t-1,3-Dichloropropene	6.406	75	49461	2.011	ppbv	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042173.D
 Acq On : 27 Mar 2025 08:59
 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 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:32:52 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 01:31:23 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
46) cis-1,3-Dichloropropene	5.593	75	61829	2.050	ppbv	#	91
47) 1,1,2-Trichloroethane	6.577	97	41387	1.985	ppbv		95
48) Dibromochloromethane	7.383	129	72441	2.050	ppbv		100
49) Bromoform	9.477	173	65221	2.056	ppbv		98
50) 4-Methyl-2-Pentanone	5.752	43	132328	2.107	ppbv		99
51) 2-Hexanone	7.435	43	112681	2.162	ppbv	#	99
52) Tetrachloroethene	8.221	164	40558	1.888	ppbv		98
53) Toluene	6.923	91	131314	2.045	ppbv		99
54) 1,2-Dibromoethane	7.648	107	56799	1.952	ppbv		90
56) 1,1,1,2-Tetrachloroethane	8.920	131	58141	2.093	ppbv		97
57) Chlorobenzene	8.914	112	100308	2.096	ppbv	#	94
58) Ethyl Benzene	9.351	91	191114	2.132	ppbv		96
59) m/p-Xylene	9.548	91	299531m	4.181	ppbv		
60) o-Xylene	9.959	91	151292	2.109	ppbv		98
61) Styrene	9.865	104	74134	2.089	ppbv		98
62) Isopropylbenzene	10.535	105	228191	2.127	ppbv		99
63) 1,1,2,2-Tetrachloroethane	9.956	83	90114	2.067	ppbv		99
64) n-propylbenzene	10.985	120	58105	2.104	ppbv		92
65) tert-Butylbenzene	11.529	119	216336	2.180	ppbv		99
66) Benzyl Chloride	11.610	91	22272	2.116	ppbv		95
67) sec-Butylbenzene	11.762	105	297381	2.156	ppbv		99
69) p-Isopropyltoluene	11.921	119	258357	2.176	ppbv		100
70) n-Butylbenzene	12.277	91	270616	2.228	ppbv		99
71) 2-Chlorotoluene	10.898	91	177487	2.132	ppbv		100
72) 4-Ethyltoluene	11.121	105	194660	2.179	ppbv		99
73) 1,3,5-Trimethylbenzene	11.199	105	169221	2.169	ppbv		96
74) 1,2,4-Trimethylbenzene	11.532	105	198351	2.207	ppbv		96
75) 1,3-Dichlorobenzene	11.604	146	107217	2.175	ppbv		97
76) 1,4-Dichlorobenzene	11.668	146	104925	2.139	ppbv		99
77) 1,2-Dichlorobenzene	11.943	146	102310	2.132	ppbv		99
78) Hexachloro-1,3-Butadiene	13.879	225	109539	2.242	ppbv		99
79) Naphthalene	13.510	128	233451	2.375	ppbv		97
80) Naphthalene,2-methyl-	14.455	142	117313	2.451	ppbv		99
81) 1,2,4-Trichlorobenzene	13.435	180	103765	2.288	ppbv		97

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042174.D
 Acq On : 27 Mar 2025 09:30
 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 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:33:49 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 01:31:23 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	186244	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	537244	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.879	117	499830	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.371	95	404753	9.861	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.600%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.496	85	28203	1.026	ppbv	99
3) Chlorodifluoromethane	1.473	51	28693	1.021	ppbv	94
4) Chloromethane	1.531	50	11111	0.989	ppbv	99
5) Vinyl Chloride	1.577	62	10723	0.936	ppbv	98
6) Bromomethane	1.667	94	4984	0.979	ppbv	97
7) Chloroethane	1.703	64	4622	1.025	ppbv	100
8) Dichlorotetrafluoroethane	1.554	85	23886	1.020	ppbv	98
9) Propene	1.483	41	13699m	1.082	ppbv	
10) Heptane	4.975	43	36132	1.055	ppbv	100
11) Trichlorofluoromethane	1.875	101	27136	1.014	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.137	101	22629	1.029	ppbv	99
13) Ethanol	1.719	45	1610m	1.624	ppbv	
14) Bromoethene	1.781	108	8330	0.989	ppbv #	82
15) Acetone	1.836	43	29294	1.125	ppbv	95
16) 1,3-Butadiene	1.606	39	13133	1.121	ppbv	97
17) tert-Butyl alcohol	2.040	59	33500	1.033	ppbv	97
18) 1,1-Dichloroethene	2.033	96	10532	1.024	ppbv	89
19) Isopropyl Alcohol	1.884	45	14903	1.014	ppbv #	38
20) Methylene Chloride	2.059	84	10481	1.080	ppbv	93
21) Allyl Chloride	2.095	41	19039	1.036	ppbv	99
22) trans-1,2-Dichloroethene	2.341	96	13051m	1.086	ppbv	
23) Vinyl Acetate	2.464	43	12883m	1.190	ppbv	
24) 1,1-Dichloroethane	2.409	63	22505	1.022	ppbv	99
25) Ethyl Acetate	2.836	43	67402	0.997	ppbv #	96
26) Hexane	2.823	57	27223	1.043	ppbv	98
27) Carbon Disulfide	2.146	76	28167	1.006	ppbv #	47
28) Methyl tert-Butyl Ether	2.441	73	16501	1.015	ppbv	95
29) Chloroform	2.845	83	38516	1.008	ppbv	96
30) Cyclohexane	3.852	84	23052	1.016	ppbv	97
31) cis-1,2-Dichloroethene	2.716	61	27187	1.026	ppbv	89
32) 1,1,1-Trichloroethane	3.363	97	40993	0.938	ppbv	99
34) 2-Butanone	2.557	43	41423	1.063	ppbv	98
35) Carbon Tetrachloride	3.758	117	39345	0.952	ppbv	93
36) Benzene	3.651	78	55156	1.036	ppbv	94
37) 1,2-Dichloroethane	3.218	62	30543	1.002	ppbv	98
38) Trichloroethene	4.545	130	21906	0.985	ppbv	93
39) 1,2-Dichloropropane	4.312	63	20020	1.032	ppbv	99
40) 1,4-Dioxane	4.593	88	10592m	1.052	ppbv	
41) Tetrahydrofuran	3.056	42	22818	1.029	ppbv	97
42) Bromodichloromethane	4.483	83	41864	0.996	ppbv	90
43) Methyl Methacrylate	4.875	69	24233m	1.078	ppbv	
44) 2,2,4-Trimethylpentane	4.632	57	90727	1.008	ppbv	96
45) t-1,3-Dichloropropene	6.403	75	23993m	0.992	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042174.D
 Acq On : 27 Mar 2025 09:30
 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 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:33:49 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 01:31:23 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	30063	1.014	ppbv	93
47) 1,1,2-Trichloroethane	6.577	97	20546	1.002	ppbv	96
48) Dibromochloromethane	7.383	129	34425	0.991	ppbv	100
49) Bromoform	9.481	173	31610	1.013	ppbv	98
50) 4-Methyl-2-Pentanone	5.752	43	65226m	1.056	ppbv	
51) 2-Hexanone	7.438	43	54680	1.067	ppbv #	100
52) Tetrachloroethene	8.222	164	19415	0.919	ppbv	95
53) Toluene	6.927	91	64612	1.023	ppbv	99
54) 1,2-Dibromoethane	7.652	107	28879	1.009	ppbv	95
56) 1,1,1,2-Tetrachloroethane	8.924	131	28764	1.045	ppbv #	87
57) Chlorobenzene	8.917	112	48930	1.032	ppbv	93
58) Ethyl Benzene	9.348	91	91086	1.026	ppbv	97
59) m/p-Xylene	9.529	91	147162m	2.073	ppbv	
60) o-Xylene	9.960	91	73702	1.037	ppbv	96
61) Styrene	9.866	104	36110	1.027	ppbv	97
62) Isopropylbenzene	10.536	105	109897	1.034	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.960	83	44431	1.029	ppbv	99
64) n-propylbenzene	10.986	120	29054	1.062	ppbv	98
65) tert-Butylbenzene	11.526	119	103520	1.053	ppbv	96
66) Benzyl Chloride	11.614	91	10660	1.022	ppbv #	93
67) sec-Butylbenzene	11.762	105	149660	1.095	ppbv	97
69) p-Isopropyltoluene	11.921	119	127509	1.084	ppbv	99
70) n-Butylbenzene	12.280	91	129860	1.079	ppbv	99
71) 2-Chlorotoluene	10.898	91	86356	1.047	ppbv	100
72) 4-Ethyltoluene	11.122	105	92912	1.050	ppbv	99
73) 1,3,5-Trimethylbenzene	11.199	105	83497	1.080	ppbv	92
74) 1,2,4-Trimethylbenzene	11.533	105	97858	1.099	ppbv	94
75) 1,3-Dichlorobenzene	11.604	146	51096	1.046	ppbv	99
76) 1,4-Dichlorobenzene	11.669	146	50841	1.046	ppbv	99
77) 1,2-Dichlorobenzene	11.944	146	51523	1.084	ppbv	99
78) Hexachloro-1,3-Butadiene	13.879	225	55611	1.149	ppbv	97
79) Naphthalene	13.510	128	109031	1.120	ppbv	99
80) Naphthalene,2-methyl-	14.455	142	44518	0.939	ppbv	99
81) 1,2,4-Trichlorobenzene	13.436	180	47040	1.047	ppbv	98

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

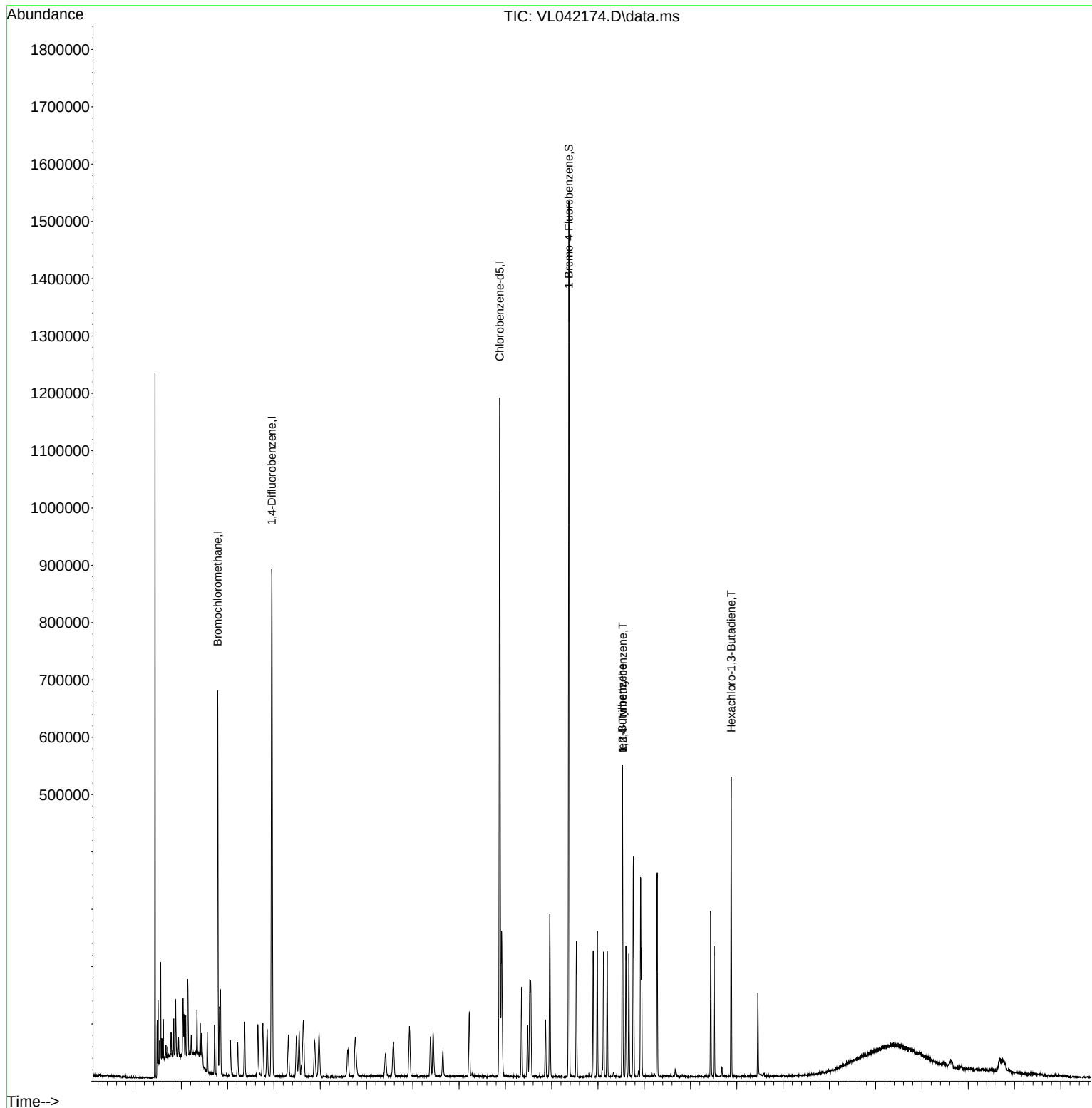
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042174.D
Acq On : 27 Mar 2025 09:30
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 03/31/2025
Supervised By : Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:33:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042175.D
 Acq On : 27 Mar 2025 10:01
 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 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:34:42 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 01:31:23 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	180502	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	523832	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	485078	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.370 95 403513 10.130 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.496	85	14455	0.542	ppbv	95
3) Chlorodifluoromethane	1.473	51	14637	0.538	ppbv #	89
4) Chloromethane	1.531	50	5956	0.547	ppbv	94
5) Vinyl Chloride	1.577	62	5732	0.516	ppbv	92
6) Bromomethane	1.664	94	2949	0.597	ppbv	95
7) Chloroethane	1.703	64	2582	0.591	ppbv #	87
8) Dichlorotetrafluoroethane	1.551	85	11783	0.519	ppbv	98
9) Propene	1.483	41	6622m	0.540	ppbv	
10) Heptane	4.972	43	16673	0.502	ppbv	89
11) Trichlorofluoromethane	1.874	101	14099	0.544	ppbv	92
12) 1,1,2-Trichlorotrifluo...	2.136	101	11252	0.528	ppbv	99
13) Ethanol	1.722	45	997	1.038	ppbv #	36
14) Bromoethene	1.780	108	4770	0.584	ppbv #	86
15) Acetone	1.835	43	15331	0.607	ppbv #	85
16) 1,3-Butadiene	1.606	39	8594	0.757	ppbv	82
17) tert-Butyl alcohol	2.039	59	17467	0.556	ppbv	97
18) 1,1-Dichloroethene	2.030	96	5634	0.565	ppbv #	92
19) Isopropyl Alcohol	1.884	45	9171	0.644	ppbv #	39
20) Methylene Chloride	2.059	84	5634	0.599	ppbv #	93
21) Allyl Chloride	2.091	41	9632	0.541	ppbv	89
22) trans-1,2-Dichloroethene	2.334	96	6353	0.546	ppbv	83
23) Vinyl Acetate	2.457	43	6809	0.649	ppbv #	91
24) 1,1-Dichloroethane	2.405	63	11258	0.527	ppbv	97
25) Ethyl Acetate	2.836	43	36258	0.553	ppbv	98
26) Hexane	2.823	57	13605	0.538	ppbv	92
27) Carbon Disulfide	2.146	76	14510	0.535	ppbv #	1
28) Methyl tert-Butyl Ether	2.437	73	8310	0.527	ppbv #	89
29) Chloroform	2.845	83	20149	0.544	ppbv	98
30) Cyclohexane	3.852	84	12063m	0.549	ppbv	
31) cis-1,2-Dichloroethene	2.719	61	13601	0.529	ppbv	92
32) 1,1,1-Trichloroethane	3.360	97	20567	0.485	ppbv	100
34) 2-Butanone	2.557	43	19739	0.520	ppbv	96
35) Carbon Tetrachloride	3.755	117	18558	0.460	ppbv	93
36) Benzene	3.651	78	27488	0.529	ppbv #	87
37) 1,2-Dichloroethane	3.214	62	16062	0.540	ppbv	100
38) Trichloroethene	4.538	130	11460m	0.529	ppbv	
39) 1,2-Dichloropropane	4.308	63	10123	0.535	ppbv	92
40) 1,4-Dioxane	4.593	88	6121m	0.624	ppbv	
41) Tetrahydrofuran	3.059	42	11509m	0.533	ppbv	
42) Bromodichloromethane	4.483	83	20374	0.497	ppbv #	98
43) Methyl Methacrylate	4.875	69	11583m	0.528	ppbv	
44) 2,2,4-Trimethylpentane	4.632	57	46646	0.532	ppbv	95
45) t-1,3-Dichloropropene	6.406	75	12404	0.526	ppbv #	79

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042175.D
 Acq On : 27 Mar 2025 10:01
 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 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:34:42 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 01:31:23 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	14374m	0.497	ppbv	
47) 1,1,2-Trichloroethane	6.574	97	10972m	0.549	ppbv	
48) Dibromochloromethane	7.380	129	17042	0.503	ppbv	99
49) Bromoform	9.480	173	14828	0.487	ppbv	98
50) 4-Methyl-2-Pentanone	5.758	43	33674	0.559	ppbv	97
51) 2-Hexanone	7.438	43	26154	0.523	ppbv #	100
52) Tetrachloroethene	8.218	164	10502	0.510	ppbv	94
53) Toluene	6.923	91	32444	0.527	ppbv	98
54) 1,2-Dibromoethane	7.648	107	14220	0.510	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.920	131	13959	0.523	ppbv #	1
57) Chlorobenzene	8.914	112	24826	0.540	ppbv #	91
58) Ethyl Benzene	9.348	91	44862	0.521	ppbv	96
59) m/p-Xylene	9.542	91	73028m	1.060	ppbv	
60) o-Xylene	9.959	91	36879	0.535	ppbv	98
61) Styrene	9.866	104	17198	0.504	ppbv	96
62) Isopropylbenzene	10.536	105	55531	0.538	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.959	83	21989	0.525	ppbv	96
64) n-propylbenzene	10.985	120	14030	0.528	ppbv	95
65) tert-Butylbenzene	11.526	119	53115	0.557	ppbv	100
66) Benzyl Chloride	11.613	91	5263	0.520	ppbv	97
67) sec-Butylbenzene	11.762	105	72879	0.550	ppbv	98
69) p-Isopropyltoluene	11.921	119	61933	0.542	ppbv	100
70) n-Butylbenzene	12.277	91	61507	0.527	ppbv	99
71) 2-Chlorotoluene	10.895	91	41637	0.520	ppbv	95
72) 4-Ethyltoluene	11.121	105	44473	0.518	ppbv #	94
73) 1,3,5-Trimethylbenzene	11.199	105	39190	0.523	ppbv	97
74) 1,2,4-Trimethylbenzene	11.532	105	48370	0.560	ppbv	97
75) 1,3-Dichlorobenzene	11.600	146	25122	0.530	ppbv	100
76) 1,4-Dichlorobenzene	11.668	146	24991	0.530	ppbv	97
77) 1,2-Dichlorobenzene	11.943	146	24548	0.532	ppbv	96
78) Hexachloro-1,3-Butadiene	13.879	225	25636	0.546	ppbv	99
79) Naphthalene	13.510	128	47990	0.508	ppbv	95
80) Naphthalene,2-methyl-	14.458	142	17486	0.380	ppbv	98
81) 1,2,4-Trichlorobenzene	13.436	180	19924	0.457	ppbv	97

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

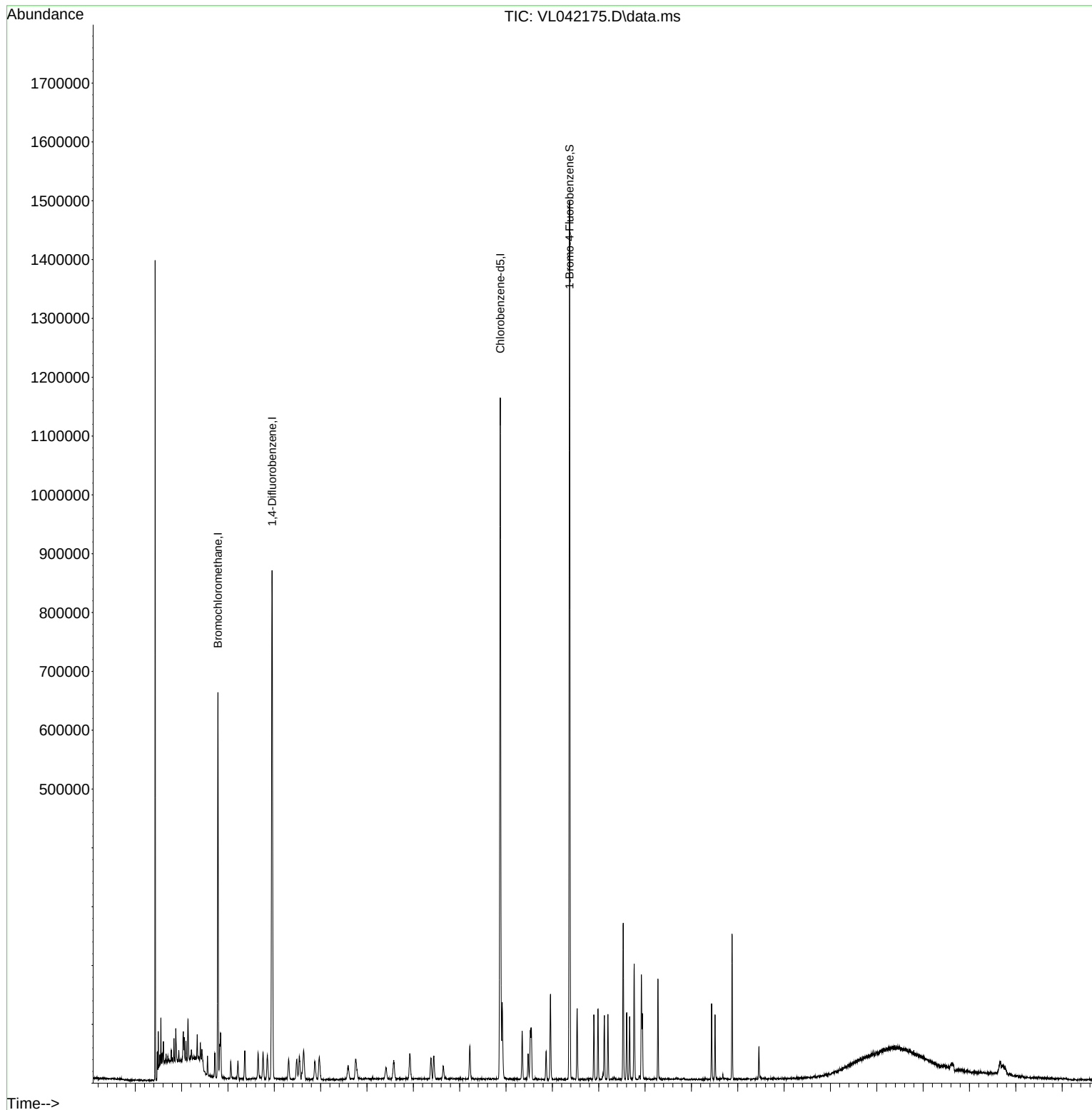
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042175.D
Acq On : 27 Mar 2025 10:01
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:34:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042176.D
 Acq On : 27 Mar 2025 10:32
 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 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:35:34 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Fri Mar 28 01:31:23 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	180740	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	528028	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	481506	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	398069	10.067	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 100.700%	
Target Compounds						
						Qvalue
5) Vinyl Chloride	1.580	62	1274	0.115	ppbv	# 42
32) 1,1,1-Trichloroethane	3.366	97	4509m	0.106	ppbv	
35) Carbon Tetrachloride	3.768	117	4131m	0.102	ppbv	
38) Trichloroethene	4.551	130	2306m	0.106	ppbv	
52) Tetrachloroethene	8.225	164	1895m	0.091	ppbv	
54) 1,2-Dibromoethane	7.652	107	3033m	0.108	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.966	83	3852m	0.093	ppbv	
79) Naphthalene	13.513	128	7882	0.084	ppbv	# 92

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

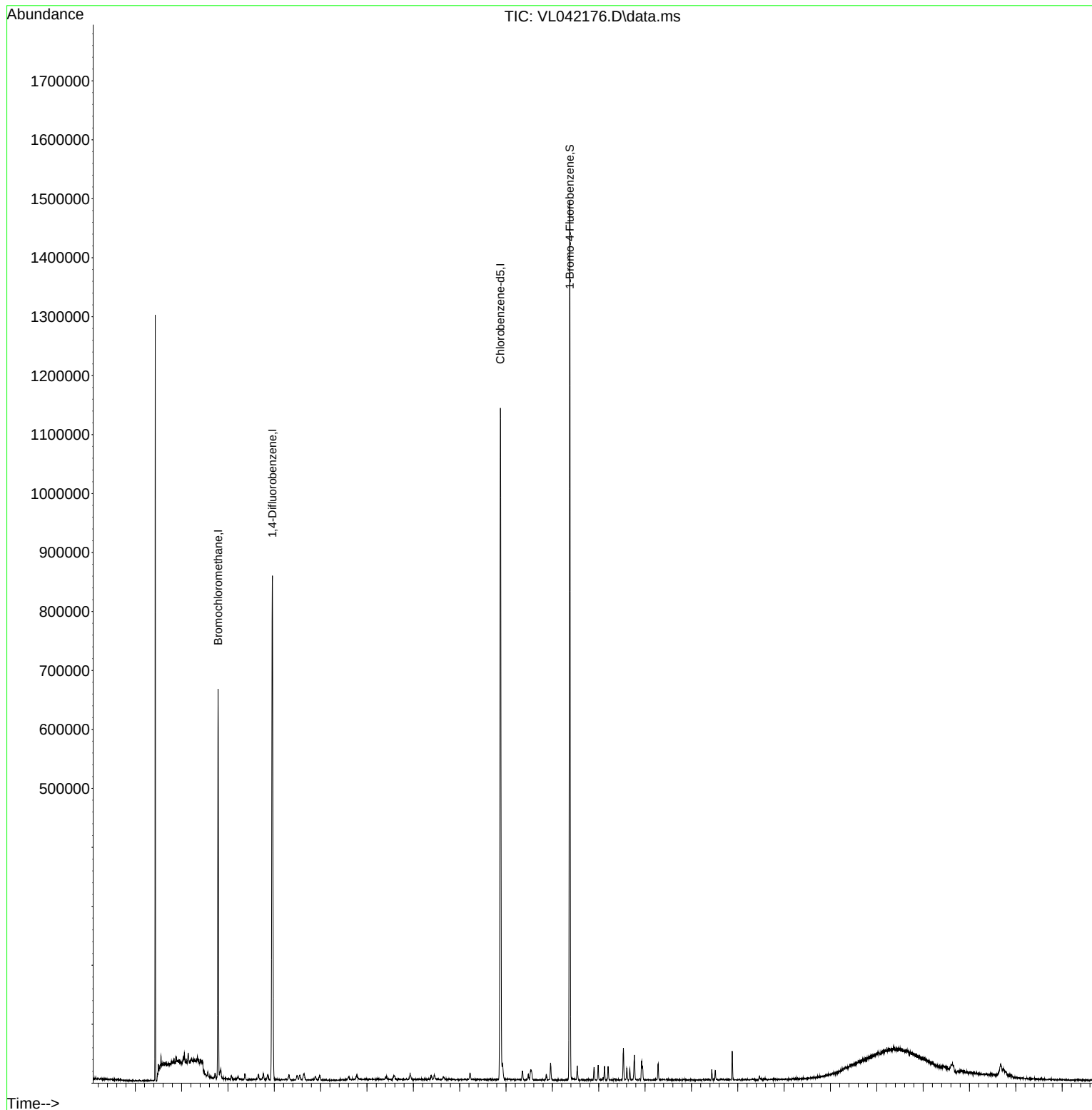
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042176.D
Acq On : 27 Mar 2025 10:32
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:35:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042177.D
 Acq On : 27 Mar 2025 11:03
 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 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:36:24 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Fri Mar 28 01:31:23 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	178058	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	512915	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	475617	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	389935	9.983	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.800%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.580	62	471m	0.043	ppbv	
32) 1,1,1-Trichloroethane	3.366	97	1683m	0.040	ppbv	
35) Carbon Tetrachloride	3.758	117	1645m	0.042	ppbv	
38) Trichloroethene	4.541	130	712m	0.034	ppbv	
52) Tetrachloroethene	8.208	164	880m	0.044	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.963	83	1407m	0.034	ppbv	

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

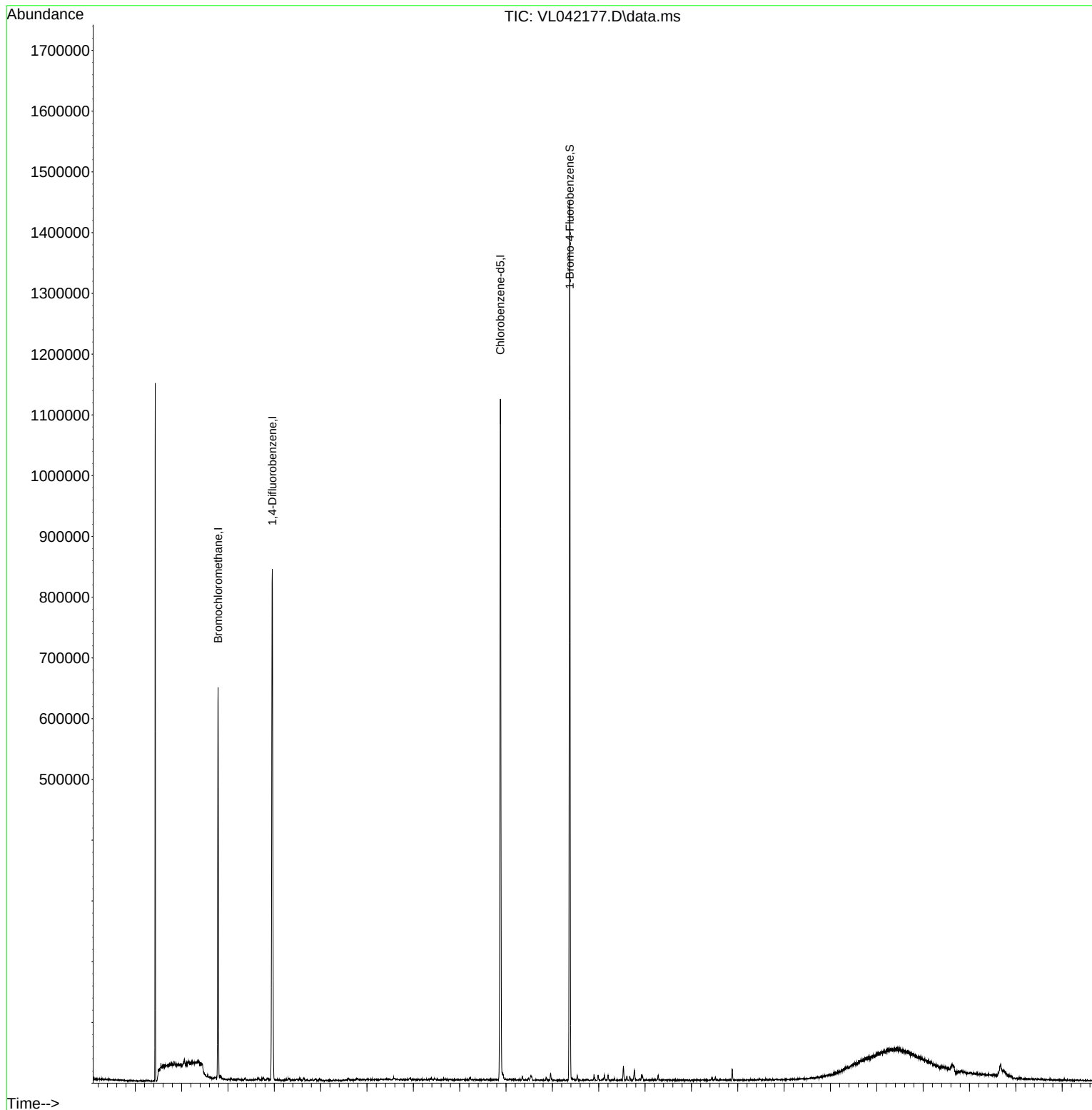
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042177.D
Acq On : 27 Mar 2025 11:03
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:36:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042178.D
 Acq On : 27 Mar 2025 11:36
 Operator : SY/MD
 Sample : VSTDICC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC015

Quant Time: Mar 28 01:37:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Fri Mar 28 01:31:23 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025

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

Internal Standards						
1) Bromochloromethane	2.784	49	173372	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	499360	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	473077	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	387777	9.981	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.800%

Target Compounds	Qvalue					
2) Dichlorodifluoromethane	1.495	85	358962	14.023	ppbv	99
3) Chlorodifluoromethane	1.473	51	366164	14.002	ppbv	98
4) Chloromethane	1.531	50	148133	14.160	ppbv	98
5) Vinyl Chloride	1.576	62	141938	13.304	ppbv	97
6) Bromomethane	1.667	94	65113	13.734	ppbv	99
7) Chloroethane	1.703	64	58820	14.007	ppbv	99
8) Dichlorotetrafluoroethane	1.550	85	314834	14.442	ppbv	98
9) Propene	1.482	41	163799	13.902	ppbv	95
10) Heptane	4.972	43	446949	14.019	ppbv	99
11) Trichlorofluoromethane	1.874	101	349967	14.050	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.136	101	295217	14.419	ppbv	99
13) Ethanol	1.719	45	7382	8.001	ppbv	92
14) Bromoethene	1.780	108	106436	13.571	ppbv	98
15) Acetone	1.832	43	296254	12.218	ppbv	98
16) 1,3-Butadiene	1.605	39	150122	13.766	ppbv	100
17) tert-Butyl alcohol	2.039	59	416362	13.787	ppbv	99
18) 1,1-Dichloroethene	2.029	96	131720	13.762	ppbv	99
19) Isopropyl Alcohol	1.884	45	179117	13.093	ppbv	100
20) Methylene Chloride	2.059	84	113183	12.533	ppbv	95
21) Allyl Chloride	2.094	41	239440	14.002	ppbv	99
22) trans-1,2-Dichloroethene	2.337	96	149455	13.362	ppbv	98
23) Vinyl Acetate	2.460	43	138419	13.736	ppbv #	96
24) 1,1-Dichloroethane	2.405	63	298760	14.570	ppbv	99
25) Ethyl Acetate	2.832	43	871882	13.855	ppbv	100
26) Hexane	2.822	57	344636	14.178	ppbv	98
27) Carbon Disulfide	2.146	76	370022	14.196	ppbv	97
28) Methyl tert-Butyl Ether	2.437	73	216463	14.303	ppbv	95
29) Chloroform	2.845	83	508614	14.297	ppbv	100
30) Cyclohexane	3.852	84	296458	14.040	ppbv	99
31) cis-1,2-Dichloroethene	2.719	61	351945	14.262	ppbv	97
32) 1,1,1-Trichloroethane	3.363	97	547329	13.448	ppbv	99
34) 2-Butanone	2.554	43	497020	13.726	ppbv	99
35) Carbon Tetrachloride	3.758	117	543385	14.140	ppbv	100
36) Benzene	3.651	78	699549	14.131	ppbv	98
37) 1,2-Dichloroethane	3.214	62	416544	14.697	ppbv	99
38) Trichloroethene	4.541	130	283430	13.715	ppbv	98
39) 1,2-Dichloropropane	4.308	63	257891	14.304	ppbv	99
40) 1,4-Dioxane	4.577	88	124925	13.354	ppbv #	91
41) Tetrahydrofuran	3.049	42	294634	14.301	ppbv	100
42) Bromodichloromethane	4.483	83	587772	15.043	ppbv	99
43) Methyl Methacrylate	4.874	69	295300	14.130	ppbv	99
44) 2,2,4-Trimethylpentane	4.635	57	1180275	14.108	ppbv	99
45) t-1,3-Dichloropropene	6.405	75	329360	14.649	ppbv	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042178.D
 Acq On : 27 Mar 2025 11:36
 Operator : SY/MD
 Sample : VSTDICC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC015

Manual Integrations
 APPROVED

Quant Time: Mar 28 01:37:01 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 01:31:23 2025

Response via : Initial Calibration

Reviewed By : Semsettin Yesilyurt 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	400813	14.542	ppbv	98
47) 1,1,2-Trichloroethane	6.577	97	273137	14.331	ppbv	98
48) Dibromochloromethane	7.383	129	482431	14.936	ppbv	100
49) Bromoform	9.480	173	427143	14.730	ppbv	99
50) 4-Methyl-2-Pentanone	5.745	43	755146	13.155	ppbv	99
51) 2-Hexanone	7.431	43	619419	13.005	ppbv #	99
52) Tetrachloroethene	8.221	164	258356	13.159	ppbv	95
53) Toluene	6.926	91	829648	14.137	ppbv	100
54) 1,2-Dibromoethane	7.645	107	381823	14.359	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.920	131	365410	14.032	ppbv	99
57) Chlorobenzene	8.917	112	618201	13.777	ppbv	100
58) Ethyl Benzene	9.351	91	1167096	13.889	ppbv	97
59) m/p-Xylene	9.548	91	1857561m	27.651	ppbv	
60) o-Xylene	9.962	91	913234	13.577	ppbv	99
61) Styrene	9.865	104	474195	14.250	ppbv	99
62) Isopropylbenzene	10.535	105	1362416	13.544	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.959	83	551386	13.491	ppbv	99
64) n-propylbenzene	10.985	120	356118	13.753	ppbv	94
65) tert-Butylbenzene	11.529	119	1200149	12.901	ppbv	98
66) Benzyl Chloride	11.613	91	134397	13.615	ppbv	100
67) sec-Butylbenzene	11.765	105	1643629	12.711	ppbv	99
69) p-Isopropyltoluene	11.924	119	1437016	12.906	ppbv	98
70) n-Butylbenzene	12.280	91	1477443	12.975	ppbv	99
71) 2-Chlorotoluene	10.898	91	1071432	13.724	ppbv	99
72) 4-Ethyltoluene	11.121	105	1136415	13.569	ppbv	99
73) 1,3,5-Trimethylbenzene	11.202	105	979783	13.395	ppbv	99
74) 1,2,4-Trimethylbenzene	11.535	105	1048874	12.447	ppbv	92
75) 1,3-Dichlorobenzene	11.607	146	626015	13.545	ppbv	99
76) 1,4-Dichlorobenzene	11.668	146	628694	13.668	ppbv	100
77) 1,2-Dichlorobenzene	11.947	146	602844	13.396	ppbv	100
78) Hexachloro-1,3-Butadiene	13.882	225	556392	12.147	ppbv	99
79) Naphthalene	13.513	128	1258479	13.653	ppbv	98
80) Naphthalene,2-methyl-	14.455	142	718900	16.018	ppbv	98
81) 1,2,4-Trichlorobenzene	13.439	180	598416	14.075	ppbv	99

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

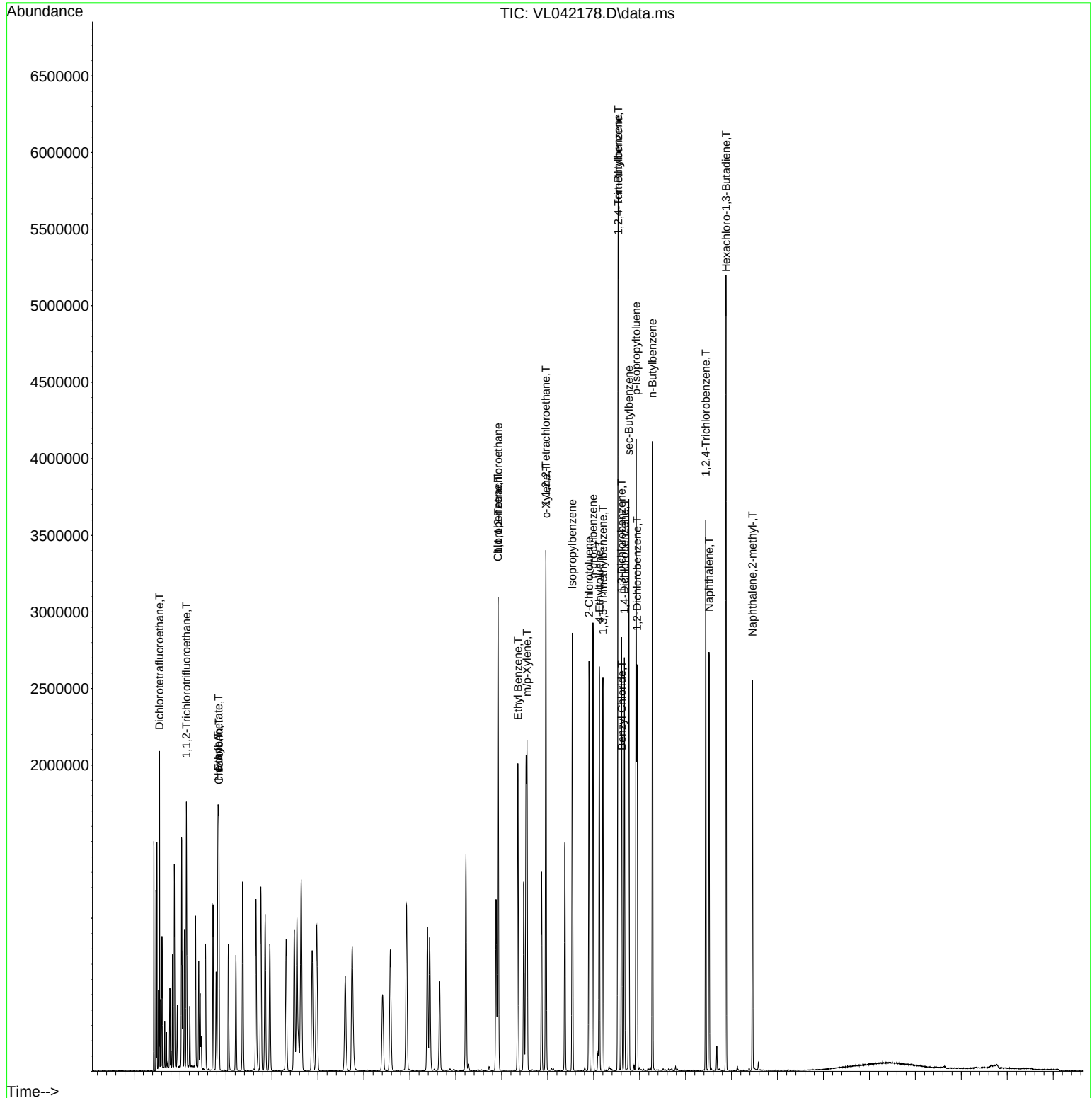
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042178.D
Acq On : 27 Mar 2025 11:36
Operator : SY/MD
Sample : VSTDIC015
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 01:37:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 01:31:23 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042179.D
 Acq On : 27 Mar 2025 12:23
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL032725

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 02:05:15 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	174350	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	498105	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	473357	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.374 95 379929 9.774 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 97.700%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.496	85	245714	9.545	ppbv 100
3) Chlorodifluoromethane	1.473	51	247046	9.394	ppbv 97
4) Chloromethane	1.531	50	98527	9.365	ppbv 98
5) Vinyl Chloride	1.577	62	95578	8.573	ppbv 97
6) Bromomethane	1.667	94	41950	8.799	ppbv 97
7) Chloroethane	1.703	64	37400	8.856	ppbv 94
8) Dichlorotetrafluoroethane	1.551	85	213819	9.753	ppbv 95
9) Propene	1.483	41	105338	8.739	ppbv 99
10) Heptane	4.972	43	298768	9.318	ppbv 100
11) Trichlorofluoromethane	1.874	101	236793	9.453	ppbv 97
12) 1,1,2-Trichlorotrifluo...	2.136	101	193965	9.421	ppbv 98
13) Ethanol	1.719	45	5773	5.066	ppbv 97
14) Bromoethene	1.780	108	73572	9.328	ppbv 97
15) Acetone	1.832	43	198300	8.132	ppbv 98
16) 1,3-Butadiene	1.606	39	97840	8.216	ppbv 99
17) tert-Butyl alcohol	2.039	59	276195	9.094	ppbv 99
18) 1,1-Dichloroethene	2.033	96	87137	9.053	ppbv 89
19) Isopropyl Alcohol	1.884	45	122768	8.923	ppbv 98
20) Methylene Chloride	2.059	84	72813	8.018	ppbv 97
21) Allyl Chloride	2.094	41	157418	9.154	ppbv 99
22) trans-1,2-Dichloroethene	2.337	96	101141	9.092	ppbv 93
23) Vinyl Acetate	2.460	43	90260	8.553	ppbv # 97
24) 1,1-Dichloroethane	2.405	63	197968	9.600	ppbv 99
25) Ethyl Acetate	2.832	43	592585	9.364	ppbv 99
26) Hexane	2.823	57	231125	9.455	ppbv 99
27) Carbon Disulfide	2.146	76	248834	9.493	ppbv 97
28) Methyl tert-Butyl Ether	2.437	73	146470	9.624	ppbv 95
29) Chloroform	2.845	83	344106	9.619	ppbv 100
30) Cyclohexane	3.852	84	197897	9.323	ppbv 98
31) cis-1,2-Dichloroethene	2.719	61	234487	9.449	ppbv 96
32) 1,1,1-Trichloroethane	3.363	97	365364	8.921	ppbv 99
34) 2-Butanone	2.554	43	331236	9.171	ppbv 99
35) Carbon Tetrachloride	3.758	117	363392	9.339	ppbv 98
36) Benzene	3.651	78	461261	9.341	ppbv 99
37) 1,2-Dichloroethane	3.217	62	273559	9.676	ppbv 99
38) Trichloroethene	4.541	130	191746	9.306	ppbv 97
39) 1,2-Dichloropropane	4.311	63	170839	9.500	ppbv 95
40) 1,4-Dioxane	4.577	88	80592	8.443	ppbv # 97
41) Tetrahydrofuran	3.052	42	196163	9.431	ppbv 99
42) Bromodichloromethane	4.486	83	384006	9.853	ppbv 100
43) Methyl Methacrylate	4.878	69	195339	9.344	ppbv 99
44) 2,2,4-Trimethylpentane	4.635	57	787400	9.436	ppbv 99
45) t-1,3-Dichloropropene	6.409	75	212335	9.467	ppbv 99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042179.D
 Acq On : 27 Mar 2025 12:23
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL032725

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 02:05:15 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	265101	9.643	ppbv	98
47) 1,1,2-Trichloroethane	6.577	97	183228	9.638	ppbv	98
48) Dibromochloromethane	7.383	129	322766	10.018	ppbv	100
49) Bromoform	9.480	173	285149	9.858	ppbv	99
50) 4-Methyl-2-Pentanone	5.749	43	500791	8.749	ppbv	99
51) 2-Hexanone	7.432	43	410889	8.741	ppbv #	99
52) Tetrachloroethene	8.221	164	173420	8.855	ppbv	93
53) Toluene	6.927	91	556897	9.514	ppbv	99
54) 1,2-Dibromoethane	7.645	107	256930	9.695	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.920	131	249270	9.567	ppbv	99
57) Chlorobenzene	8.917	112	422531	9.411	ppbv	98
58) Ethyl Benzene	9.351	91	791360	9.412	ppbv	98
59) m/p-Xylene	9.548	91	1260340m	18.772	ppbv	
60) o-Xylene	9.959	91	632918	9.404	ppbv	99
61) Styrene	9.866	104	315910	9.488	ppbv	99
62) Isopropylbenzene	10.539	105	944938	9.388	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.959	83	382635	9.357	ppbv	99
64) n-propylbenzene	10.985	120	244547	9.439	ppbv	98
65) tert-Butylbenzene	11.529	119	843828	9.065	ppbv	98
66) Benzyl Chloride	11.613	91	86804	8.789	ppbv	97
67) sec-Butylbenzene	11.765	105	1172636	9.063	ppbv	100
69) p-Isopropyltoluene	11.924	119	1019694	9.153	ppbv	100
70) n-Butylbenzene	12.280	91	1038548	9.115	ppbv	100
71) 2-Chlorotoluene	10.898	91	732874	9.382	ppbv	100
72) 4-Ethyltoluene	11.125	105	785185	9.370	ppbv	99
73) 1,3,5-Trimethylbenzene	11.202	105	673541	9.203	ppbv	98
74) 1,2,4-Trimethylbenzene	11.536	105	729155	8.648	ppbv	94
75) 1,3-Dichlorobenzene	11.607	146	426573	9.224	ppbv	99
76) 1,4-Dichlorobenzene	11.672	146	426318	9.263	ppbv	100
77) 1,2-Dichlorobenzene	11.947	146	412180	9.154	ppbv	99
78) Hexachloro-1,3-Butadiene	13.882	225	356386	7.776	ppbv	100
79) Naphthalene	13.513	128	773311	8.385	ppbv	99
80) Naphthalene,2-methyl-	14.455	142	323443	7.151	ppbv	99
81) 1,2,4-Trichlorobenzene	13.439	180	363863	8.553	ppbv	98

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

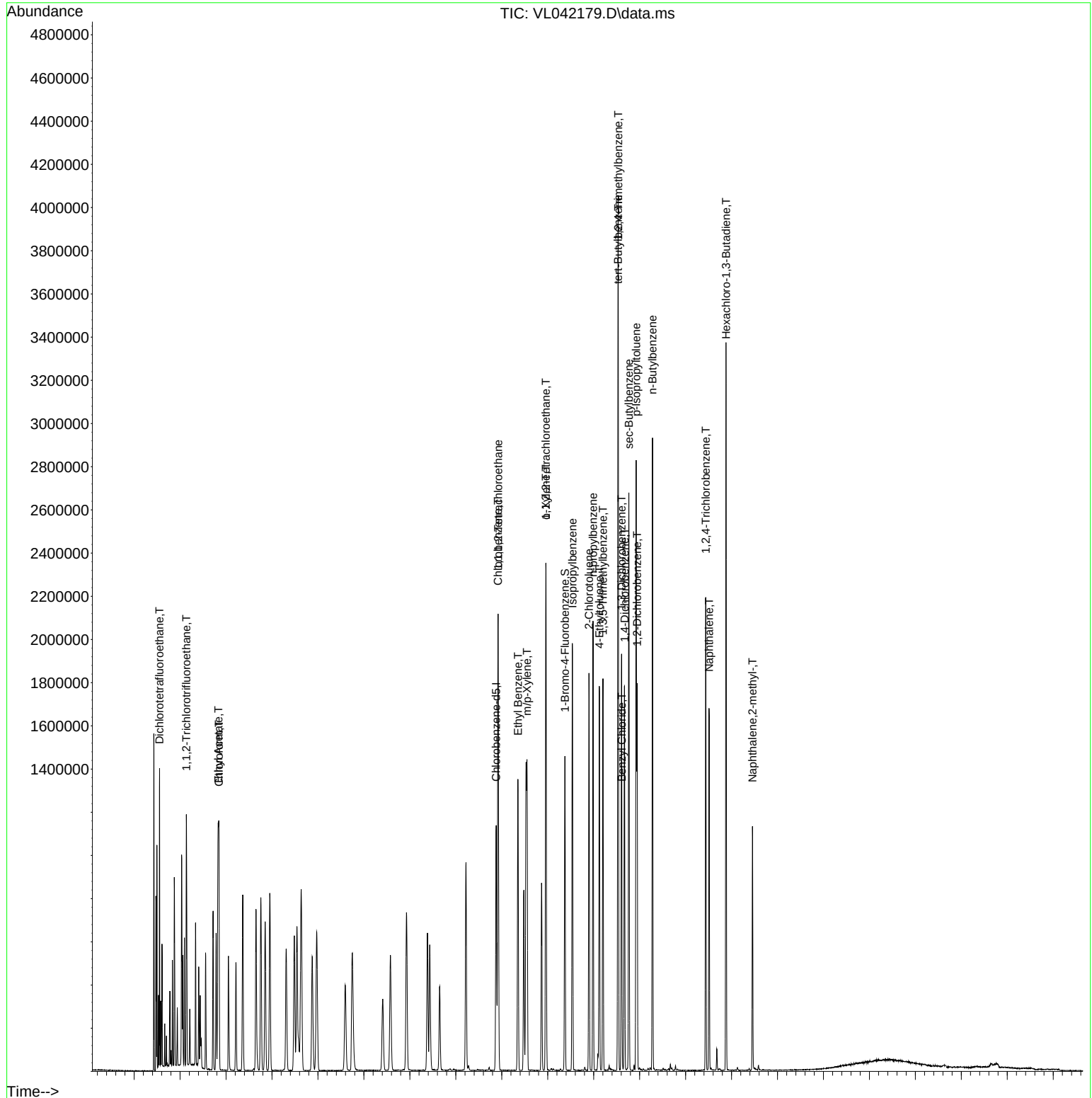
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042179.D
Acq On : 27 Mar 2025 12:23
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL032725

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
Supervised By :Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 02:05:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042179.D
 Acq On : 27 Mar 2025 12:23
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL032725

Quant Time: Mar 28 02:05:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 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	1.476	1.409	4.5	94	0.00
3	Chlorodifluoromethane	1.508	1.417	6.0	91	0.00
4	Chloromethane	0.603	0.565	6.3	92	0.00
5 T	Vinyl Chloride	0.639	0.548	14.2	93	0.00
6 T	Bromomethane	0.273	0.241	11.7	87	0.00
7	Chloroethane	0.242	0.215	11.2	88	0.00
8 T	Dichlorotetrafluoroethane	1.257	1.226	2.5	94	0.00
9 T	Propene	0.691	0.604	12.6	85	0.00
10 T	Heptane	1.839	1.714	6.8	89	0.00
11 T	Trichlorofluoromethane	1.437	1.358	5.5	95	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.181	1.113	5.8	93	0.00
13	Ethanol	0.065	0.033#	49.2#	108	0.00
14 T	Bromoethene	0.452	0.422	6.6	94	0.00
15 T	Acetone	1.399	1.137	18.7	95	0.00
16 T	1,3-Butadiene	0.683	0.561	17.9	91	0.00
17	tert-Butyl alcohol	1.742	1.584	9.1	91	0.00
18 T	1,1-Dichloroethene	0.552	0.500	9.4	92	0.00
19 T	Isopropyl Alcohol	0.789	0.704	10.8	93	0.00
20 T	Methylene Chloride	0.521	0.418	19.8	89	0.00
21 T	Allyl Chloride	0.986	0.903	8.4	93	0.00
22 T	trans-1,2-Dichloroethene	0.638	0.580	9.1	92	0.00
23 T	Vinyl Acetate	0.605	0.518	14.4	97	0.00
24 T	1,1-Dichloroethane	1.183	1.135	4.1	94	0.00
25 T	Ethyl Acetate	3.630	3.399	6.4	92	0.00
26 T	Hexane	1.402	1.326	5.4	93	0.00
27 T	Carbon Disulfide	1.503	1.427	5.1	93	0.00
28 T	Methyl tert-Butyl Ether	0.873	0.840	3.8	94	0.00
29 T	Chloroform	2.052	1.974	3.8	95	0.00
30 T	Cyclohexane	1.217	1.135	6.7	91	0.00
31 T	cis-1,2-Dichloroethene	1.423	1.345	5.5	91	0.00
32 T	1,1,1-Trichloroethane	2.349	2.096	10.8	95	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	91	0.00
34 T	2-Butanone	0.725	0.665	8.3	91	0.00
35 T	Carbon Tetrachloride	0.781	0.730	6.5	95	0.00
36 T	Benzene	0.991	0.926	6.6	91	0.00
37 T	1,2-Dichloroethane	0.568	0.549	3.3	93	0.00
38 T	Trichloroethene	0.414	0.385	7.0	94	0.00
39 T	1,2-Dichloropropane	0.361	0.343	5.0	93	0.00
40 T	1,4-Dioxane	0.192	0.162	15.6	87	0.00
41 T	Tetrahydrofuran	0.418	0.394	5.7	90	0.00
42 T	Bromodichloromethane	0.782	0.771	1.4	92	0.00
43	Methyl Methacrylate	0.420	0.392	6.7	89	0.00
44 T	2,2,4-Trimethylpentane	1.675	1.581	5.6	90	0.00
45 T	t-1,3-Dichloropropene	0.450	0.426	5.3	89	0.00
46 T	cis-1,3-Dichloropropene	0.552	0.532	3.6	88	0.00
47 T	1,1,2-Trichloroethane	0.382	0.368	3.7	92	0.00
48 T	Dibromochloromethane	0.647	0.648	-0.2	93	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042179.D
 Acq On : 27 Mar 2025 12:23
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL032725

Quant Time: Mar 28 02:05:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 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	0.581	0.572	1.5	90	0.00
50 T	4-Methyl-2-Pentanone	1.149	1.005	12.5	89	0.00
51 T	2-Hexanone	0.944	0.825	12.6	89	0.00
52 T	Tetrachloroethene	0.393	0.348	11.5	93	0.00
53 T	Toluene	1.175	1.118	4.9	91	0.00
54 T	1,2-Dibromoethane	0.532	0.516	3.0	93	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	91	0.00
56	1,1,1,2-Tetrachloroethane	0.550	0.527	4.2	94	0.00
57 T	Chlorobenzene	0.949	0.893	5.9	93	0.00
58 T	Ethyl Benzene	1.776	1.672	5.9	91	0.00
59 T	m/p-Xylene	1.418	1.331	6.1	92	0.00
60 T	o-Xylene	1.422	1.337	6.0	92	0.00
61 T	Styrene	0.703	0.667	5.1	89	0.00
62	Isopropylbenzene	2.126	1.996	6.1	93	0.00
63 T	1,1,2,2-Tetrachloroethane	0.864	0.808	6.5	93	0.00
64	n-propylbenzene	0.547	0.517	5.5	94	0.00
65	tert-Butylbenzene	1.966	1.783	9.3	94	0.00
66 T	Benzyl Chloride	0.209	0.183	12.4	82	0.00
67	sec-Butylbenzene	2.733	2.477	9.4	94	0.00
68 S	1-Bromo-4-Fluorobenzene	0.821	0.803	2.2	90	0.00
69	p-Isopropyltoluene	2.354	2.154	8.5	94	0.00
70	n-Butylbenzene	2.407	2.194	8.8	94	0.00
71	2-Chlorotoluene	1.650	1.548	6.2	92	0.00
72 T	4-Ethyltoluene	1.770	1.659	6.3	93	0.00
73 T	1,3,5-Trimethylbenzene	1.546	1.423	8.0	93	0.00
74 T	1,2,4-Trimethylbenzene	1.781	1.540	13.5	93	0.00
75 T	1,3-Dichlorobenzene	0.977	0.901	7.8	93	0.00
76 T	1,4-Dichlorobenzene	0.972	0.901	7.3	92	0.00
77 T	1,2-Dichlorobenzene	0.951	0.871	8.4	93	0.00
78 T	Hexachloro-1,3-Butadiene	0.968	0.753	22.2	86	0.00
79 T	Naphthalene	1.948	1.634	16.1	82	0.00
80 T	Naphthalene,2-methyl-	0.955	0.683	28.5	63	0.00
81 T	1,2,4-Trichlorobenzene	0.899	0.769	14.5	82	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042180.D
 Acq On : 27 Mar 2025 13:50
 Operator : SY/MD
 Sample : VL0327ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0327ABL01

Quant Time: Mar 28 02:12:10 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	170921	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	483563	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.881	117	446480	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	364194	9.933	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.300%

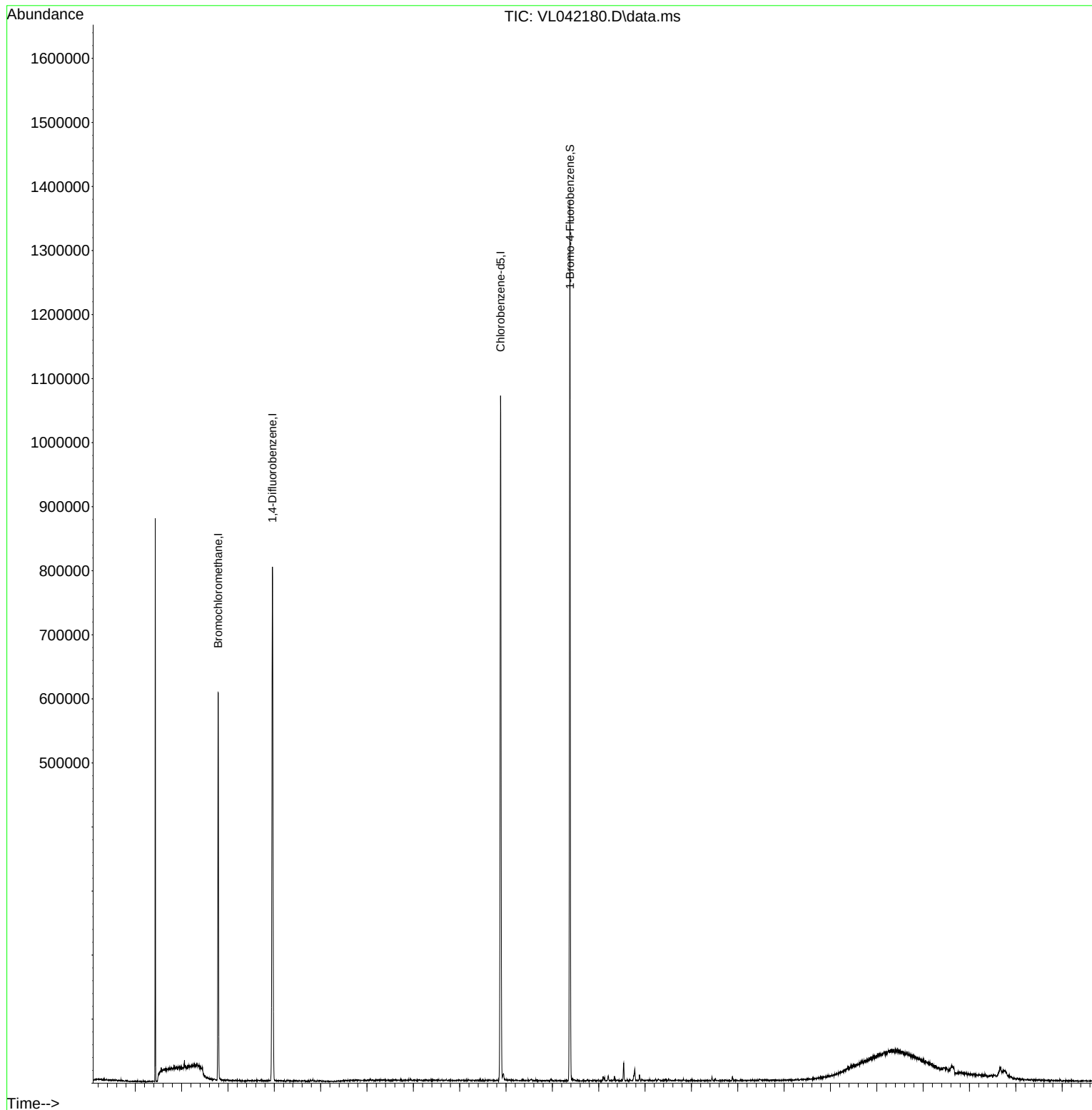
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042180.D
Acq On : 27 Mar 2025 13:50
Operator : SY/MD
Sample : VL0327ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0327ABL01

Quant Time: Mar 28 02:12:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042181.D
 Acq On : 27 Mar 2025 14:39
 Operator : SY/MD
 Sample : VL0327ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0327ABS01

Quant Time: Mar 28 02:12:34 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 03/31/2025
 Supervised By : Mahesh Dadoda 04/03/2025

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

Internal Standards						
1) Bromochloromethane	2.787	49	166105	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	483209	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.881	117	452250	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	368941	9.934	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.300%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.499	85	243063	9.911	ppbv	100
3) Chlorodifluoromethane	1.476	51	241481	9.638	ppbv	99
4) Chloromethane	1.531	50	96241	9.602	ppbv	99
5) Vinyl Chloride	1.580	62	91865	8.649	ppbv	94
6) Bromomethane	1.667	94	40361	8.886	ppbv	92
7) Chloroethane	1.703	64	37307	9.273	ppbv	100
8) Dichlorotetrafluoroethane	1.554	85	208981	10.006	ppbv	94
9) Propene	1.482	41	102862	8.957	ppbv	99
10) Heptane	4.978	43	290621	9.514	ppbv	100
11) Trichlorofluoromethane	1.877	101	232086	9.725	ppbv	95
12) 1,1,2-Trichlorotrifluo...	2.140	101	178792	9.115	ppbv	99
13) Ethanol	1.719	45	5124	4.720	ppbv	93
14) Bromoethene	1.780	108	69775	9.286	ppbv	98
15) Acetone	1.835	43	195717	8.425	ppbv	96
16) 1,3-Butadiene	1.609	39	98877	8.716	ppbv	100
17) tert-Butyl alcohol	2.039	59	266424	9.208	ppbv	98
18) 1,1-Dichloroethene	2.033	96	83339	9.088	ppbv	95
19) Isopropyl Alcohol	1.884	45	120986	9.230	ppbv	97
20) Methylene Chloride	2.062	84	69930	8.083	ppbv	96
21) Allyl Chloride	2.094	41	147810	9.022	ppbv	99
22) trans-1,2-Dichloroethene	2.340	96	96616	9.116	ppbv	99
23) Vinyl Acetate	2.463	43	94696	9.418	ppbv	96
24) 1,1-Dichloroethane	2.408	63	189793	9.661	ppbv	99
25) Ethyl Acetate	2.835	43	574442	9.528	ppbv	99
26) Hexane	2.826	57	224704	9.649	ppbv	98
27) Carbon Disulfide	2.149	76	230410	9.226	ppbv #	94
28) Methyl tert-Butyl Ether	2.441	73	149961	10.342	ppbv	95
29) Chloroform	2.848	83	336404	9.870	ppbv	96
30) Cyclohexane	3.855	84	194220	9.604	ppbv	98
31) cis-1,2-Dichloroethene	2.719	61	231151	9.777	ppbv	97
32) 1,1,1-Trichloroethane	3.366	97	359860	9.223	ppbv	99
34) 2-Butanone	2.557	43	320843	9.157	ppbv	100
35) Carbon Tetrachloride	3.761	117	361037	9.565	ppbv	99
36) Benzene	3.658	78	452718	9.450	ppbv	98
37) 1,2-Dichloroethane	3.217	62	277247	10.109	ppbv	98
38) Trichloroethene	4.548	130	187209	9.366	ppbv	98
39) 1,2-Dichloropropane	4.315	63	164374	9.422	ppbv	95
40) 1,4-Dioxane	4.583	88	82012	8.857	ppbv #	92
41) Tetrahydrofuran	3.052	42	188907	9.362	ppbv	99
42) Bromodichloromethane	4.489	83	377092	9.974	ppbv	98
43) Methyl Methacrylate	4.881	69	190156	9.377	ppbv	100
44) 2,2,4-Trimethylpentane	4.638	57	769803	9.509	ppbv	99
45) t-1,3-Dichloropropene	6.415	75	204004	9.376	ppbv	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042181.D
 Acq On : 27 Mar 2025 14:39
 Operator : SY/MD
 Sample : VL0327ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0327ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/31/2025
 Supervised By :Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 02:12:34 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M

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

QLast Update : Fri Mar 28 02:00:52 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.599	75	251694	9.437	ppbv	97
47) 1,1,2-Trichloroethane	6.583	97	175509	9.517	ppbv	99
48) Dibromochloromethane	7.386	129	310158	9.923	ppbv	99
49) Bromoform	9.483	173	279382	9.957	ppbv	99
50) 4-Methyl-2-Pentanone	5.748	43	481919	8.679	ppbv	98
51) 2-Hexanone	7.435	43	395520	8.674	ppbv	99
52) Tetrachloroethene	8.224	164	167015	8.791	ppbv	95
53) Toluene	6.930	91	540612	9.520	ppbv	99
54) 1,2-Dibromoethane	7.655	107	246519	9.589	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.924	131	240905	9.677	ppbv	96
57) Chlorobenzene	8.920	112	407816	9.507	ppbv	98
58) Ethyl Benzene	9.354	91	769818	9.583	ppbv	97
59) m/p-Xylene	9.551	91	1220553m	19.028	ppbv	
60) o-Xylene	9.962	91	612011	9.518	ppbv	98
61) Styrene	9.869	104	306658	9.639	ppbv	99
62) Isopropylbenzene	10.539	105	923163	9.600	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.962	83	370486	9.483	ppbv	99
64) n-propylbenzene	10.989	120	239652	9.682	ppbv	98
65) tert-Butylbenzene	11.532	119	828438	9.315	ppbv	98
66) Benzyl Chloride	11.616	91	81404	8.627	ppbv	98
67) sec-Butylbenzene	11.769	105	1155378	9.347	ppbv	99
69) p-Isopropyltoluene	11.927	119	1011573	9.503	ppbv	99
70) n-Butylbenzene	12.283	91	1022935	9.397	ppbv	99
71) 2-Chlorotoluene	10.901	91	713648	9.562	ppbv	98
72) 4-Ethyltoluene	11.128	105	766720	9.576	ppbv	100
73) 1,3,5-Trimethylbenzene	11.205	105	660905	9.451	ppbv	99
74) 1,2,4-Trimethylbenzene	11.539	105	718683	8.921	ppbv	97
75) 1,3-Dichlorobenzene	11.610	146	415378	9.401	ppbv	100
76) 1,4-Dichlorobenzene	11.671	146	418670	9.521	ppbv	99
77) 1,2-Dichlorobenzene	11.947	146	401634	9.336	ppbv	99
78) Hexachloro-1,3-Butadiene	13.882	225	346566	7.914	ppbv	100
79) Naphthalene	13.513	128	762976	8.659	ppbv	99
80) Naphthalene,2-methyl-	14.458	142	308264	7.134	ppbv	98
81) 1,2,4-Trichlorobenzene	13.442	180	356193	8.764	ppbv	99

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

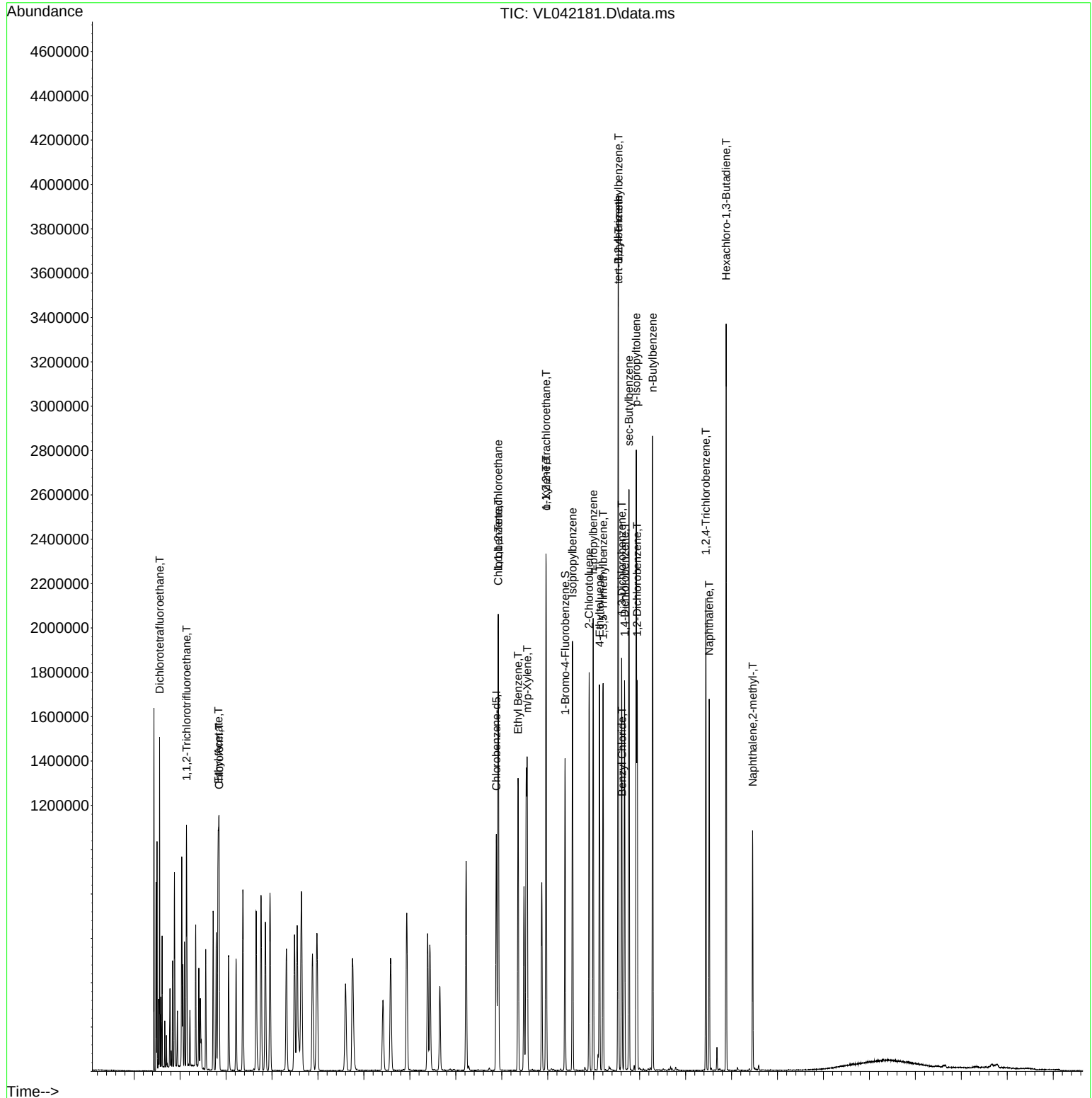
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042181.D
Acq On : 27 Mar 2025 14:39
Operator : SY/MD
Sample : VL0327ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0327ABS01

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 03/31/2025
Supervised By : Mahesh Dadoda 04/03/2025

Quant Time: Mar 28 02:12:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
 Data File : VL042182.D
 Acq On : 27 Mar 2025 16:41
 Operator : SY/MD
 Sample : QC032625 CAN 10448
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 QC032625 CAN 10448

Quant Time: Mar 28 02:13:30 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 28 02:00:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	189309	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	546112	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	504808	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	407475	9.829	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.300%

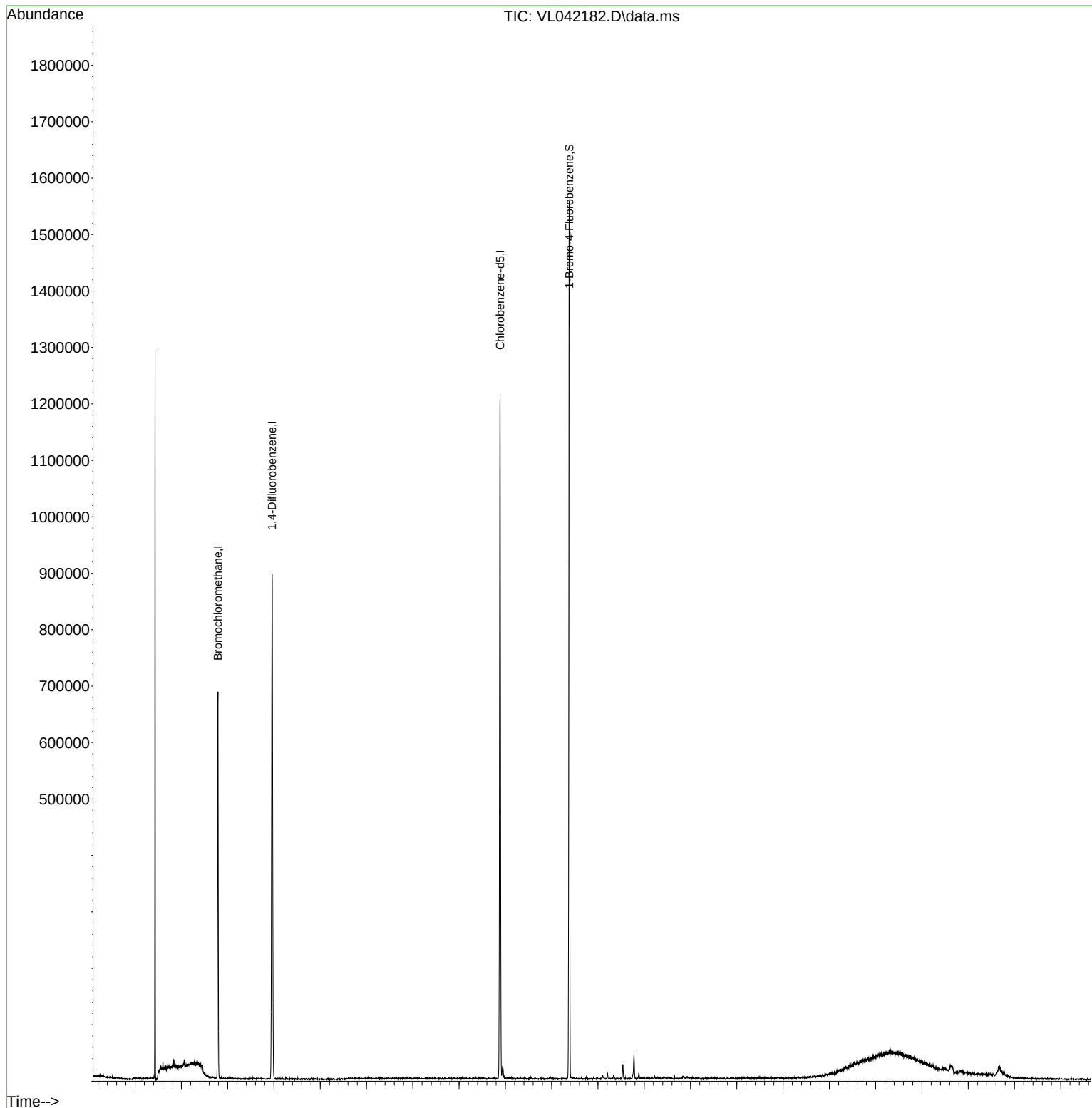
Target Compounds	Qvalue

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL032725\
Data File : VL042182.D
Acq On : 27 Mar 2025 16:41
Operator : SY/MD
Sample : QC032625 CAN 10448
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
QC032625 CAN 10448

Quant Time: Mar 28 02:13:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL032725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri Mar 28 02:00:52 2025
Response via : Initial Calibration



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 # 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

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL032725

Review By	Maresh Dadoda	Review On	4/3/2025 8:14:07 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	4/3/2025 8:45:16 AM		
SubDirectory	VL032725	HP Acquire Method	TO15AIR.M	HP Processing Method	VL032725AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2589			
Initial Calibration Stds		AP2593,AP2595,AP2596			
CCC		AP2593			
Internal Standard/PEM		AP2589			
ICV/I.BLK		AP2594			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042171.D	27 Mar 2025 07:44	SY/MD	Ok
2	VSTDICCC010	VL042172.D	27 Mar 2025 08:26	SY/MD	Ok,M
3	VSTDICCC002	VL042173.D	27 Mar 2025 08:59	SY/MD	Ok,M
4	VSTDICCC001	VL042174.D	27 Mar 2025 09:30	SY/MD	Ok,M
5	VSTDICCC0.5	VL042175.D	27 Mar 2025 10:01	SY/MD	Ok,M
6	VSTDICCC0.1	VL042176.D	27 Mar 2025 10:32	SY/MD	Ok,M
7	VSTDICCC0.03	VL042177.D	27 Mar 2025 11:03	SY/MD	Ok,M
8	VSTDICCC015	VL042178.D	27 Mar 2025 11:36	SY/MD	Ok,M
9	VSTDICV010	VL042179.D	27 Mar 2025 12:23	SY/MD	Ok,M
10	VL0327ABL01	VL042180.D	27 Mar 2025 13:50	SY/MD	Ok
11	VL0327ABS01	VL042181.D	27 Mar 2025 14:39	SY/MD	Ok,M
12	QC032625 CAN 10448	VL042182.D	27 Mar 2025 16:41	SY/MD	Ok
13	Q1649-01	VL042183.D	27 Mar 2025 17:13	SY/MD	Not Ok
14	Q1649-02	VL042184.D	27 Mar 2025 17:45	SY/MD	Not Ok
15	Q1669-01	VL042185.D	27 Mar 2025 18:22	SY/MD	Dilution
16	Q1669-02	VL042186.D	27 Mar 2025 18:59	SY/MD	Ok,M
17	Q1669-03	VL042187.D	27 Mar 2025 19:36	SY/MD	Ok,M
18	Q1669-04	VL042188.D	27 Mar 2025 20:12	SY/MD	Ok,M
19	Q1669-09	VL042189.D	27 Mar 2025 20:48	SY/MD	Ok,M
20	Q1669-09DUP	VL042190.D	27 Mar 2025 21:24	SY/MD	Ok,M
21	Q1669-05	VL042191.D	27 Mar 2025 21:57	SY/MD	Not Ok

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL032725

Review By	Maresh Dadoda	Review On	4/3/2025 8:14:07 AM		
Supervise By	Semsettin Yesilyurt	Supervise On	4/3/2025 8:45:16 AM		
SubDirectory	VL032725	HP Acquire Method	TO15AIR.M	HP Processing Method	VL032725AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2589			
Initial Calibration Stds		AP2593,AP2595,AP2596			
CCC		AP2593			
Internal Standard/PEM		AP2589			
ICV/I.BLK		AP2594			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	Q1669-07DL	VL042192.D	27 Mar 2025 22:29	SY/MD	Ok,M
23	Q1669-08	VL042193.D	27 Mar 2025 23:01	SY/MD	Not Ok
24	VIBLK	VL042194.D	27 Mar 2025 23:34	SY/MD	Ok
25	Q1669-01DL	VL042195.D	28 Mar 2025 00:06	SY/MD	Ok,M
26	Q1669-01DUP	VL042196.D	28 Mar 2025 00:44	SY/MD	Ok,M
27	Q1669-05	VL042197.D	28 Mar 2025 01:20	SY/MD	Ok,M
28	Q1669-07	VL042198.D	28 Mar 2025 01:57	SY/MD	Dilution
29	Q1669-08	VL042199.D	28 Mar 2025 02:33	SY/MD	Ok,M

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

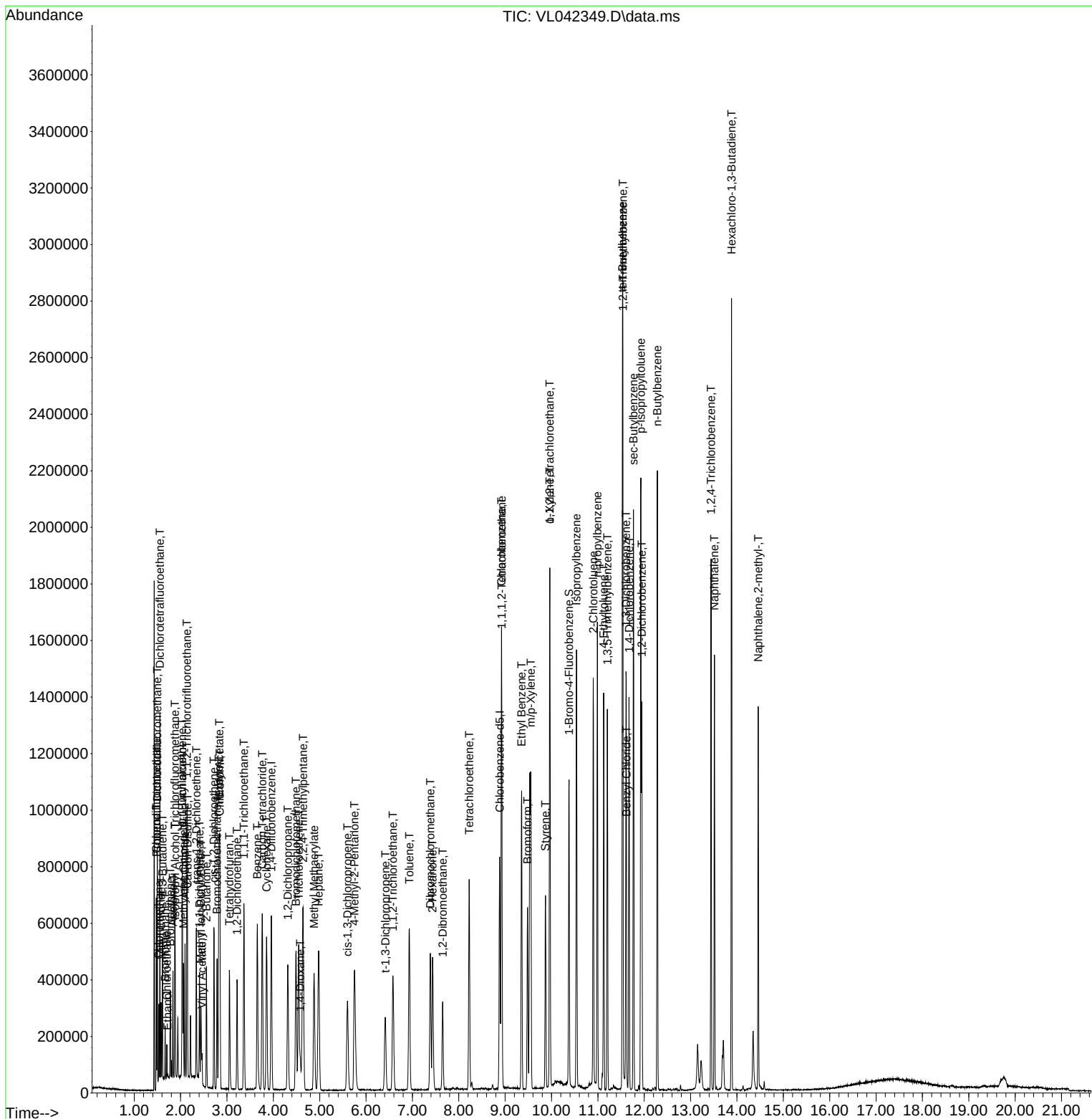
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

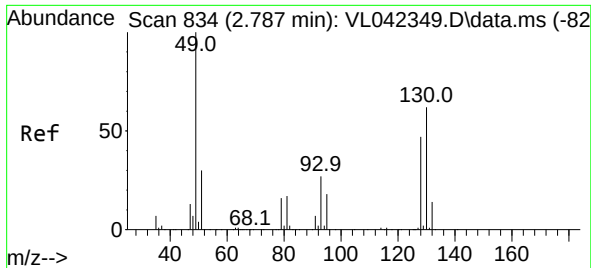
Quant Time: Apr 18 01:25:08 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 01:24:29 2025
 Response via : Initial Calibration

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

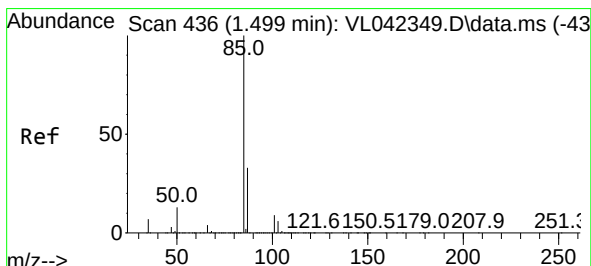
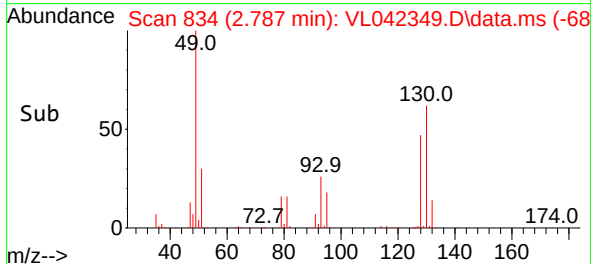
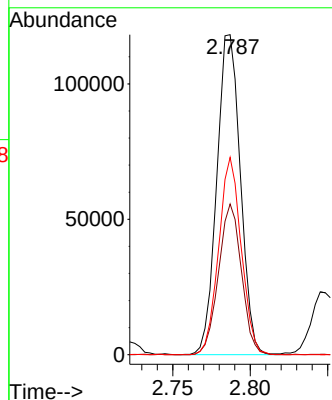
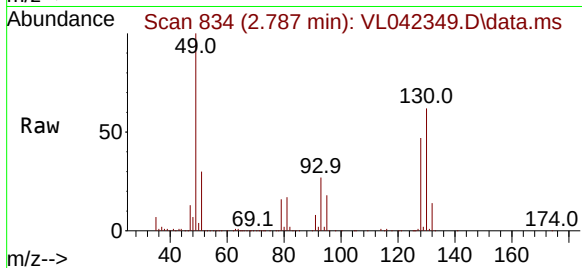




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 834
Delta R.T. -0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

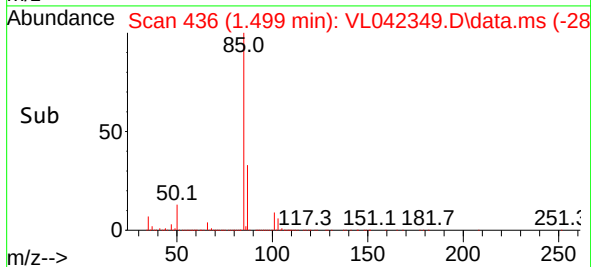
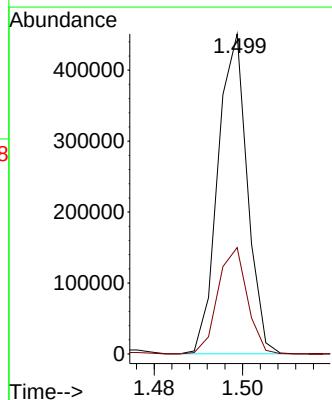
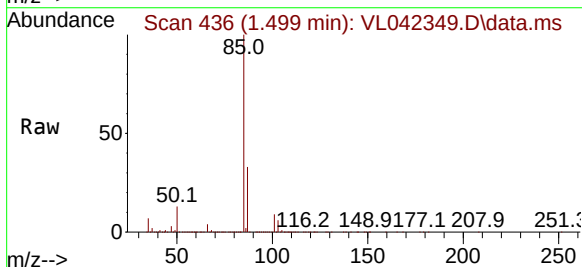
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

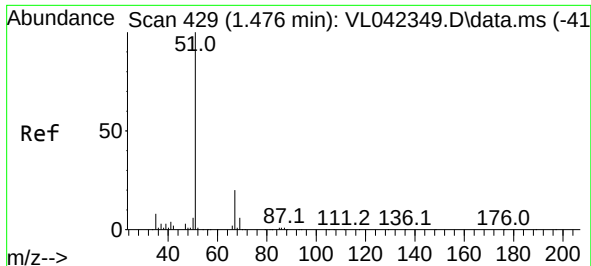
Tgt Ion: 49 Resp: 125455
Ion Ratio Lower Upper
49 100
128 45.6 22.8 68.4
130 58.7 29.3 88.0



#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

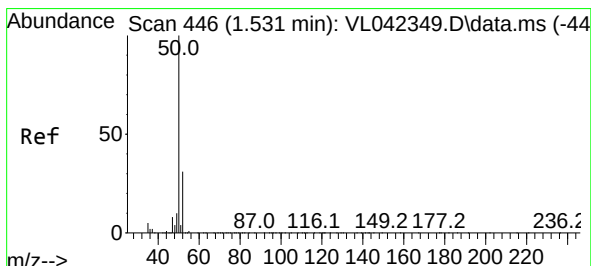
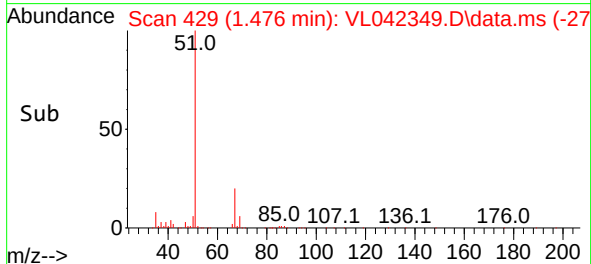
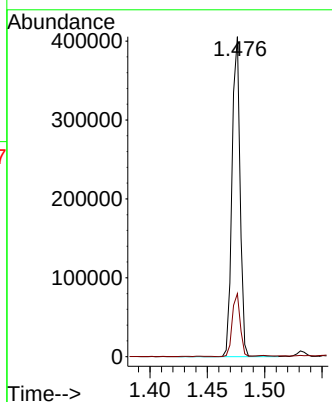
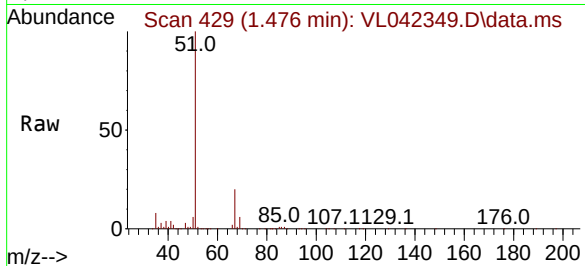




#3
Chlorodifluoromethane
Concen: 9.350 ppbv
RT: 1.476 min Scan# 429
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

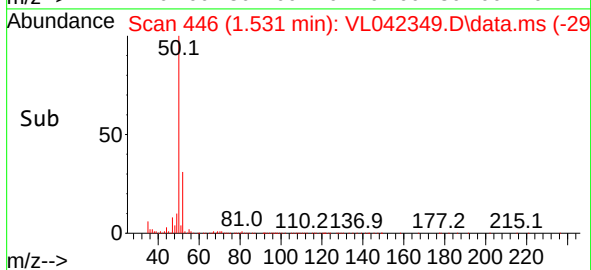
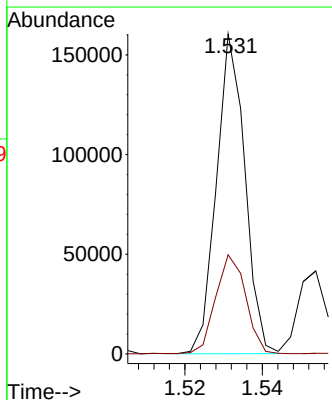
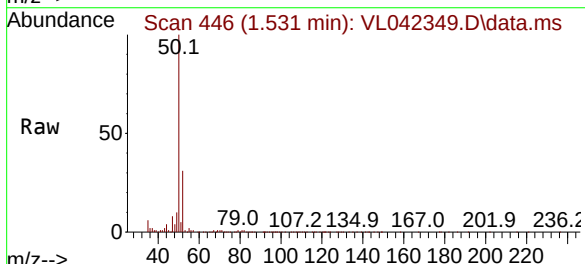
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

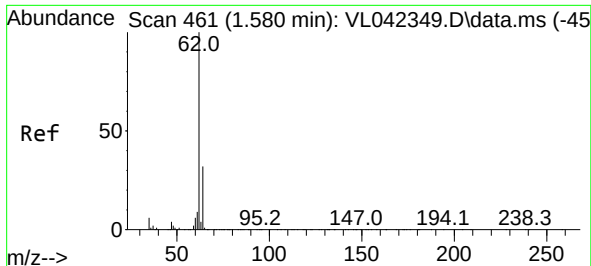
Tgt Ion: 51 Resp: 197334
Ion Ratio Lower Upper
51 100
67 20.3 16.2 24.4



#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

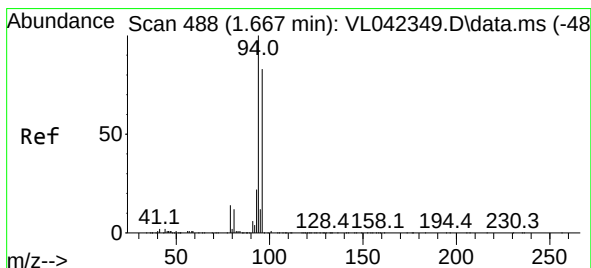
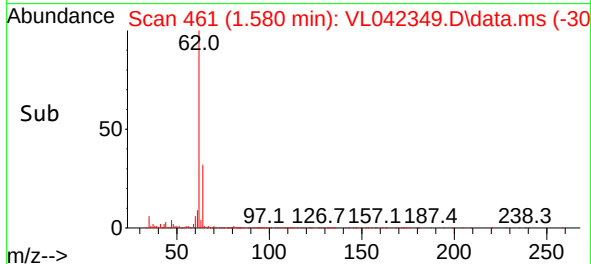
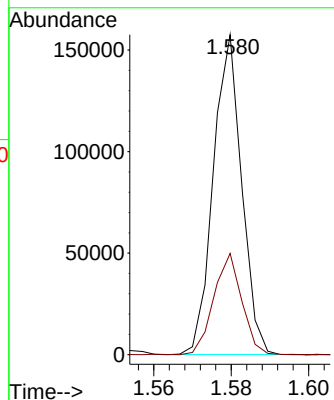
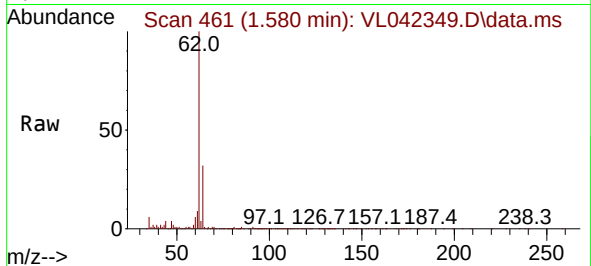




#5
 Vinyl Chloride
 Concen: 8.385 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44

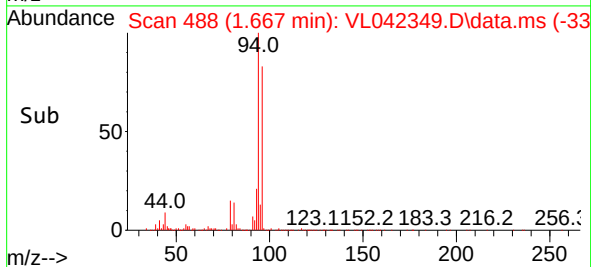
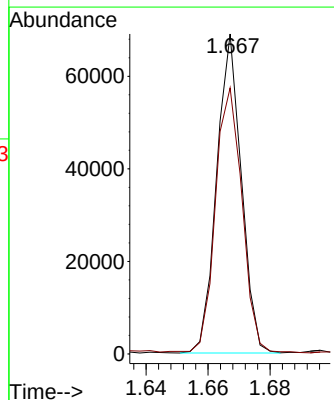
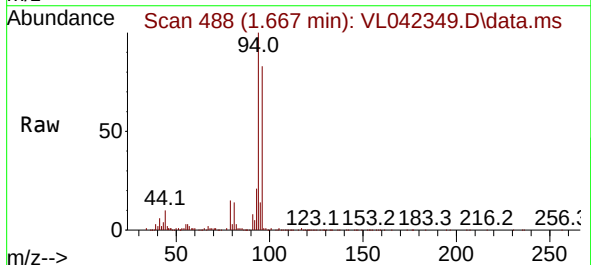
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

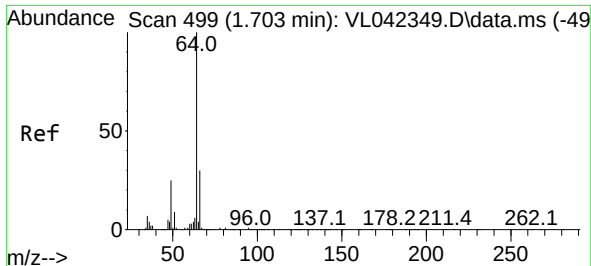
Tgt Ion: 62 Resp: 80068
 Ion Ratio Lower Upper
 62 100
 64 31.7 25.4 38.0



#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

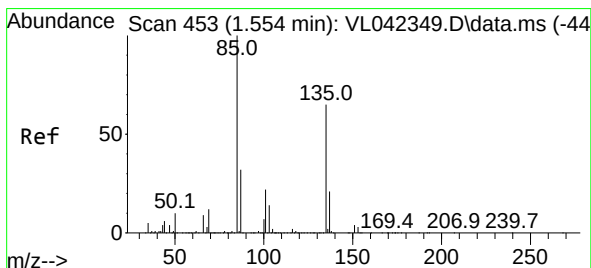
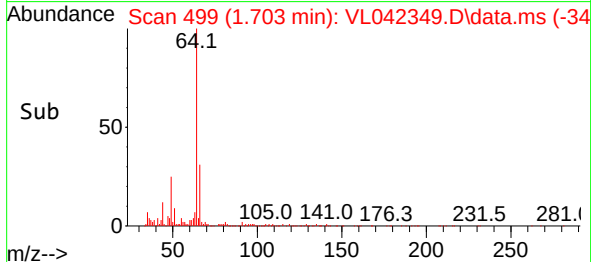
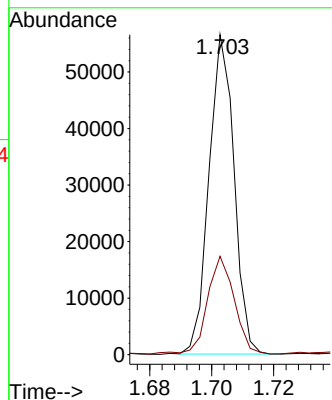
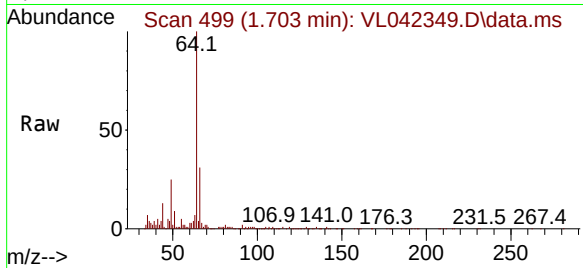




#7
Chloroethane
Concen: 9.182 ppbv
RT: 1.703 min Scan# 499
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

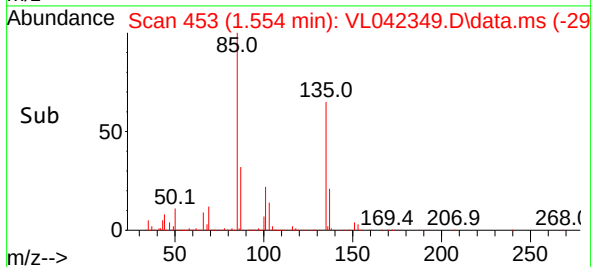
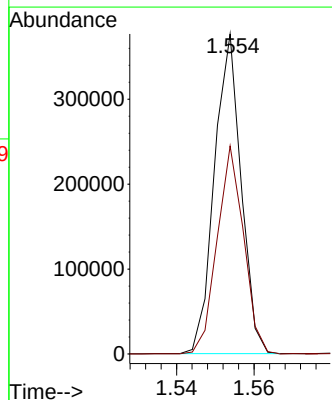
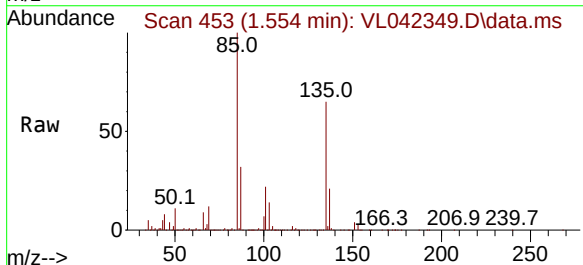
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

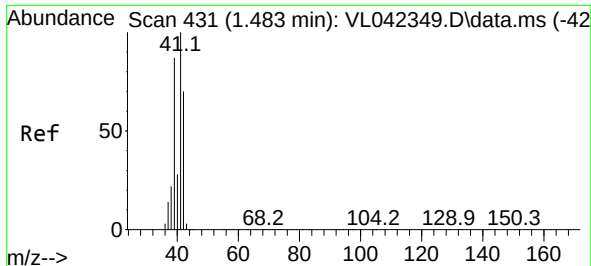
Tgt Ion: 64 Resp: 31705
Ion Ratio Lower Upper
64 100
66 30.8 24.6 37.0



#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 :

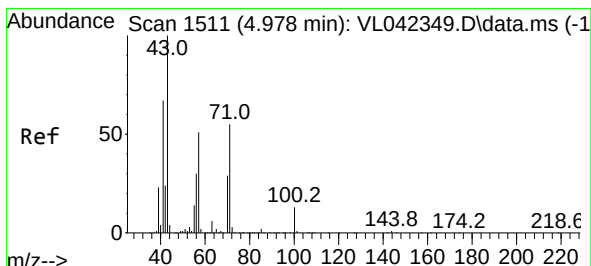
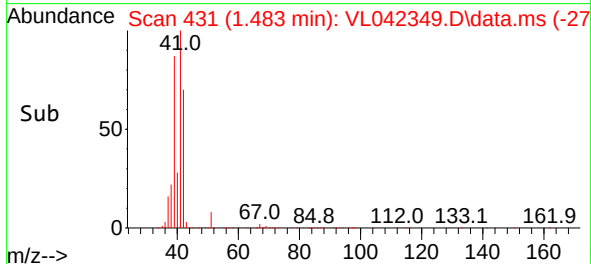
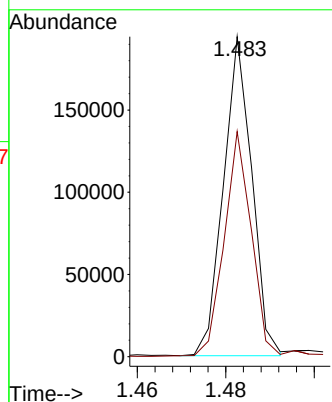
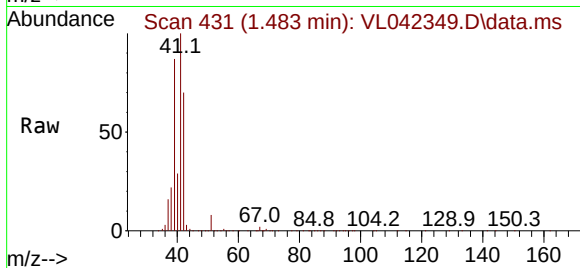
VSTDICCC010

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

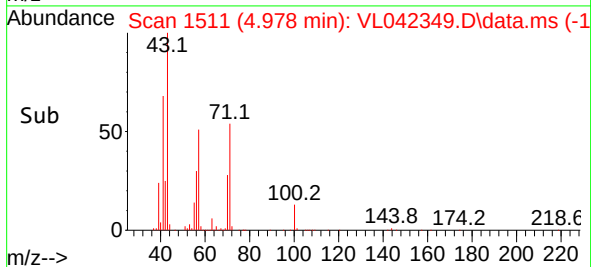
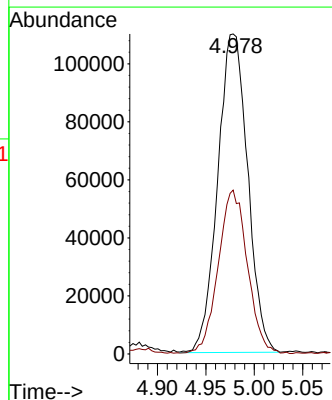
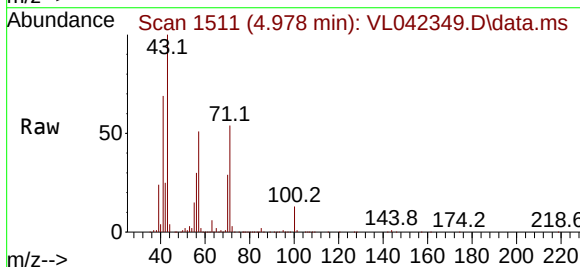
Acq: 17 Apr 2025 09:44

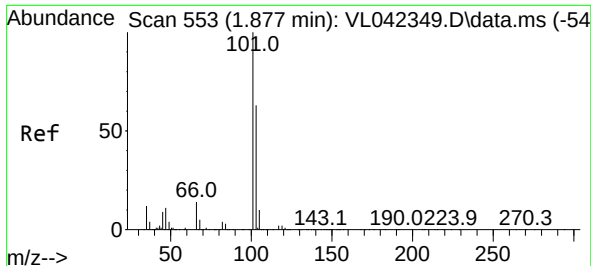
Tgt Ion: 43 Resp: 236341

Ion Ratio Lower Upper

43 100

57 49.9 39.9 59.9

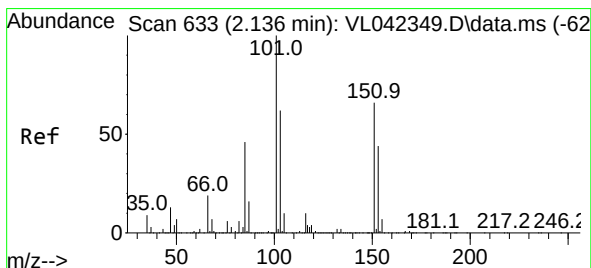
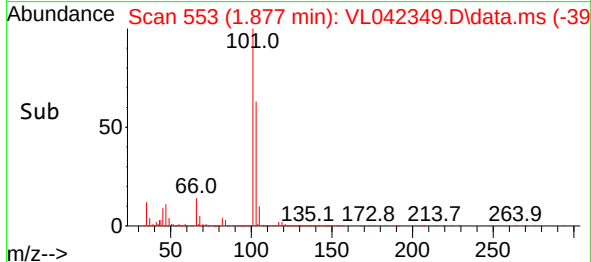
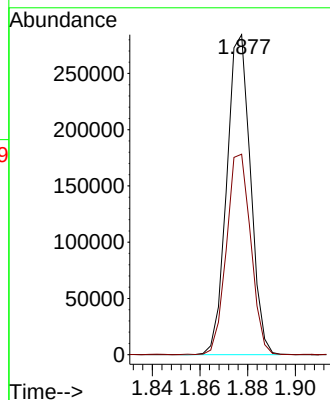
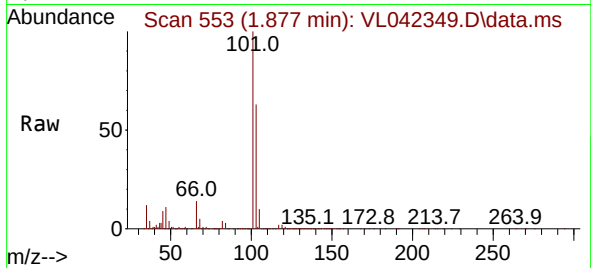




#11
 Trichlorofluoromethane
 Concen: 9.327 ppbv
 RT: 1.877 min Scan# 511
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44

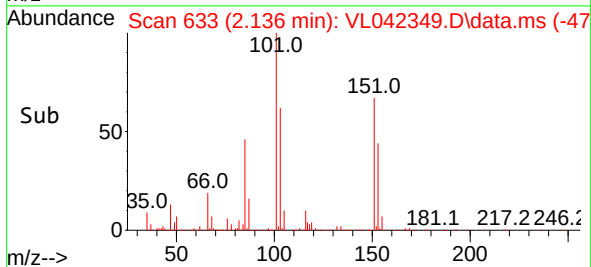
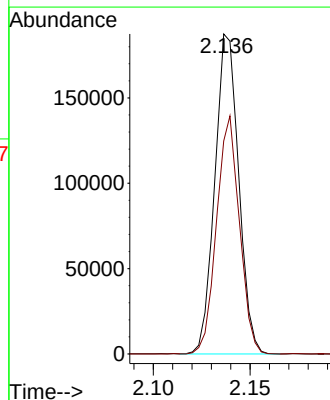
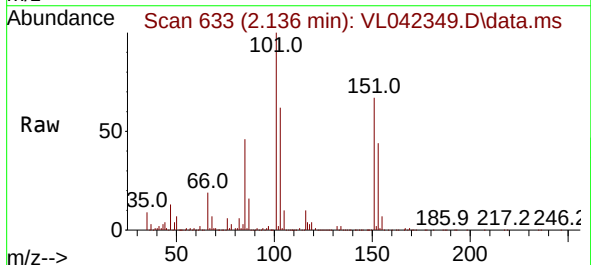
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

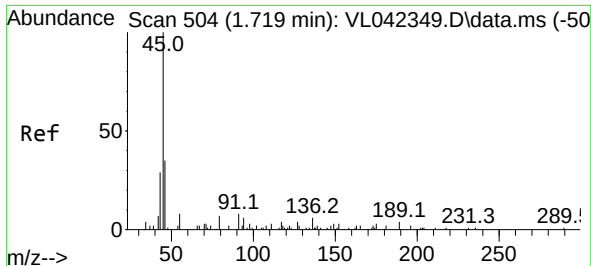
Tgt Ion:101 Resp: 196596
 Ion Ratio Lower Upper
 101 100
 103 62.6 50.1 75.1



#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

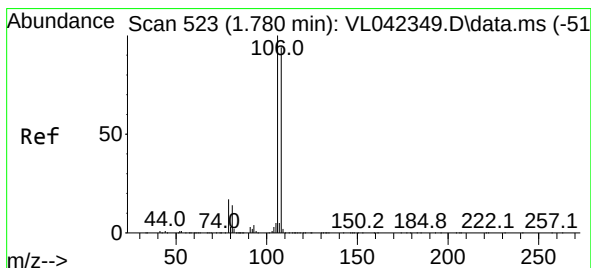
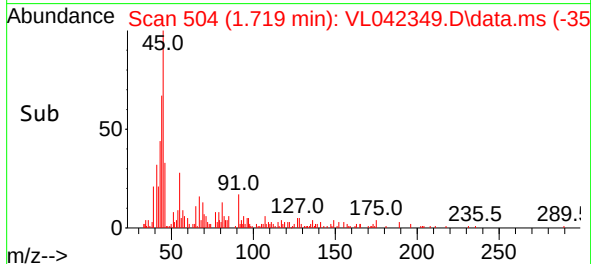
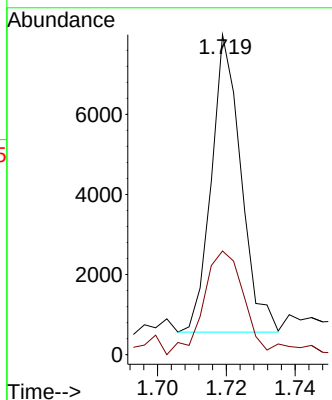
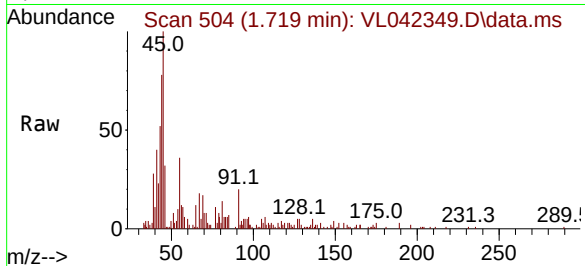




#13
Ethanol
Concen: 5.651 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

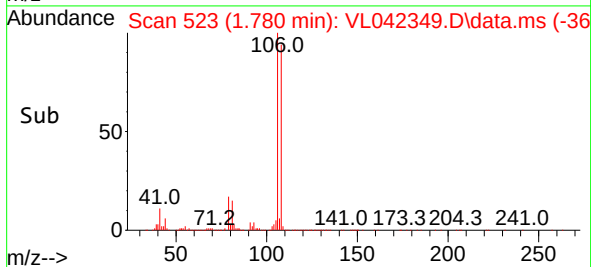
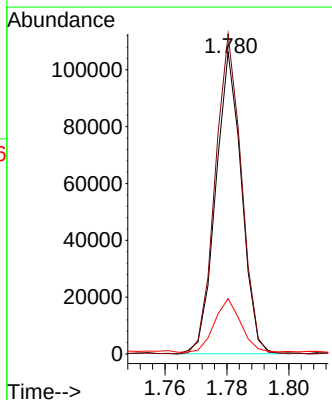
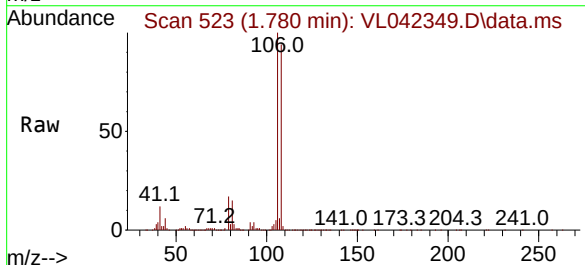
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

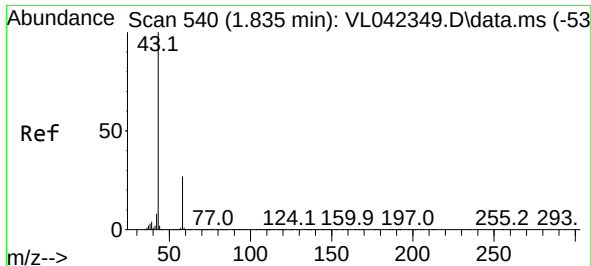
Tgt Ion: 45 Resp: 4439
Ion Ratio Lower Upper
45 100
46 54.8 21.9 87.7



#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

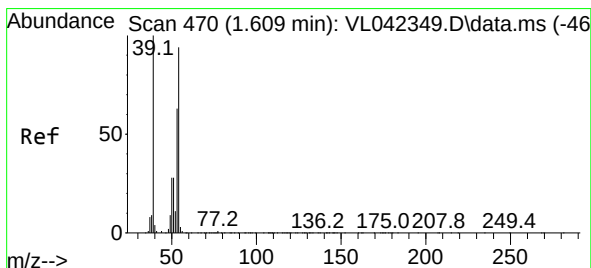
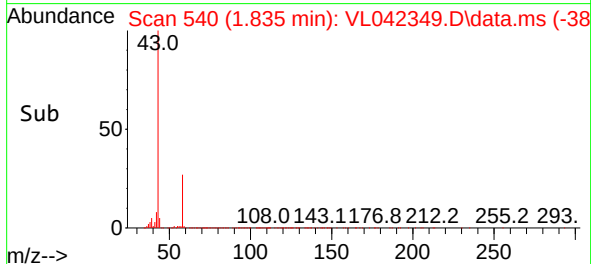
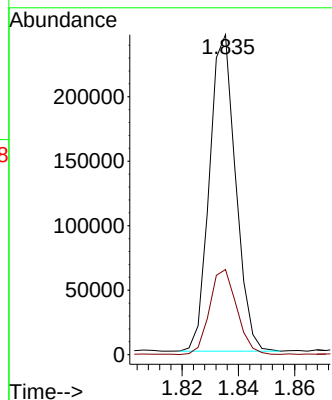
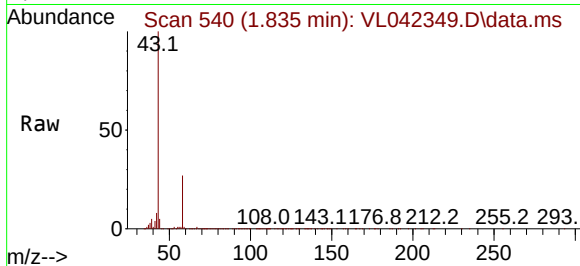




#15
Acetone
Concen: 7.717 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

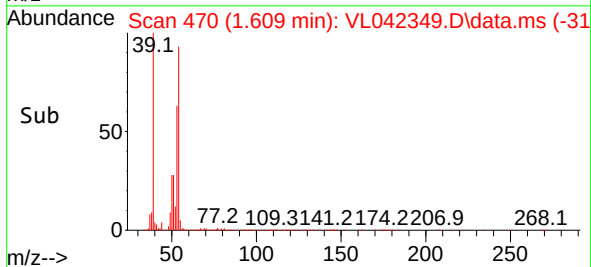
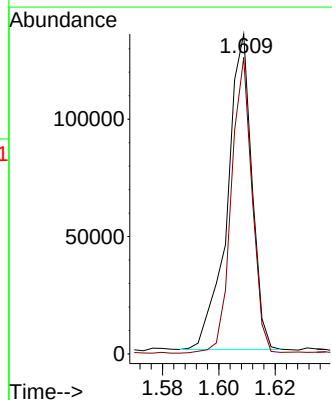
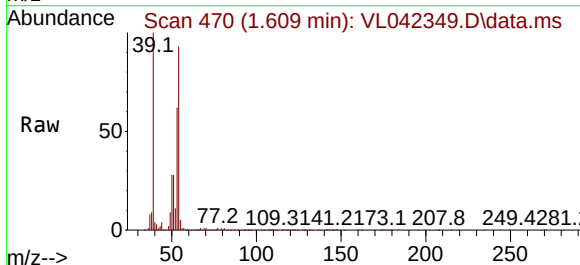
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

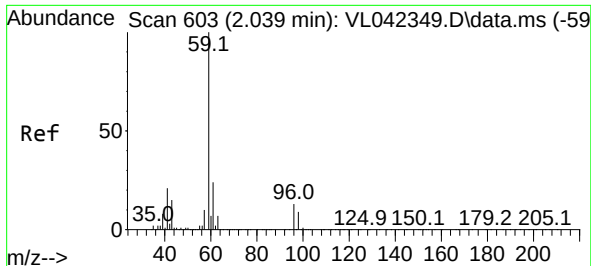
Tgt Ion: 43 Resp: 158490
Ion Ratio Lower Upper
43 100
58 28.0 22.4 33.6



#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 :

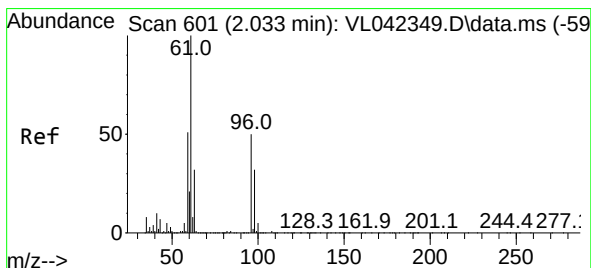
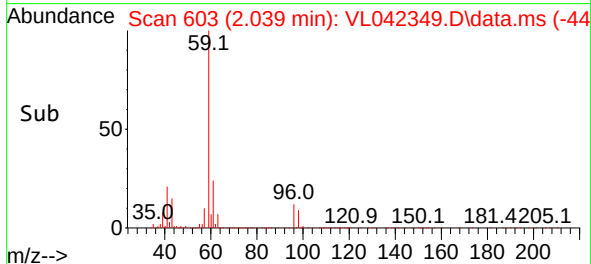
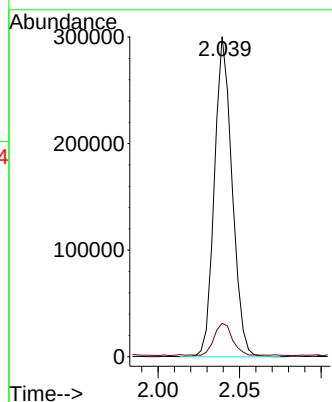
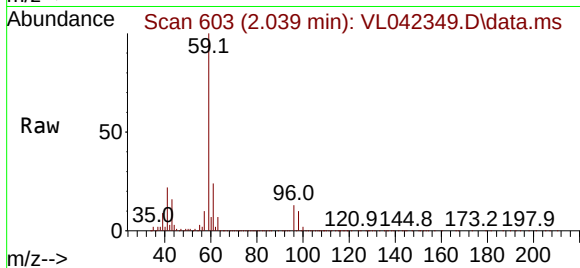
VSTDICCC010

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

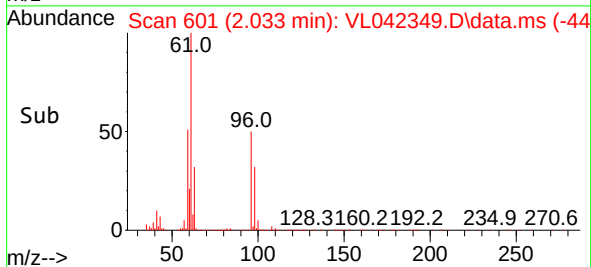
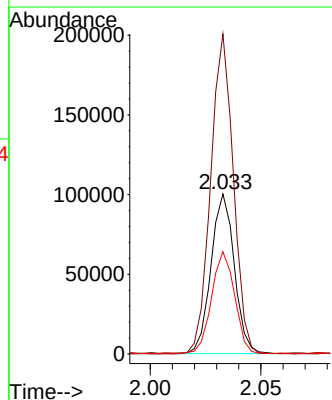
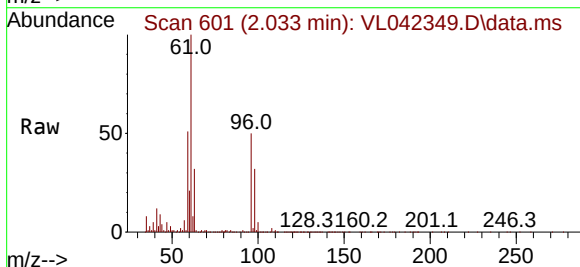
Tgt Ion: 96 Resp: 73186

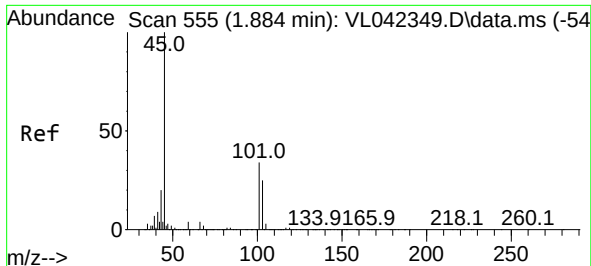
Ion Ratio Lower Upper

96 100

61 200.2 160.2 240.2

98 63.7 51.0 76.4

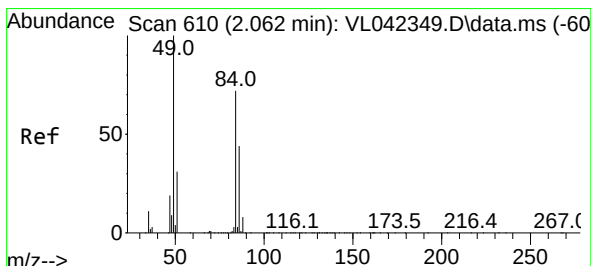
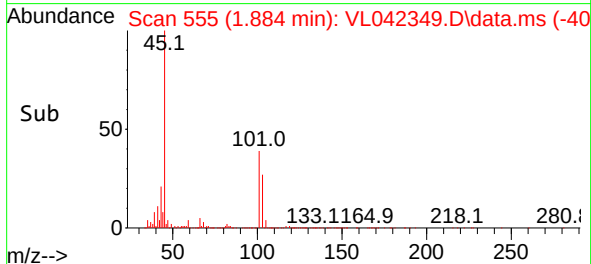
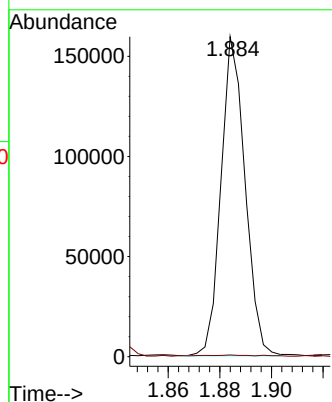
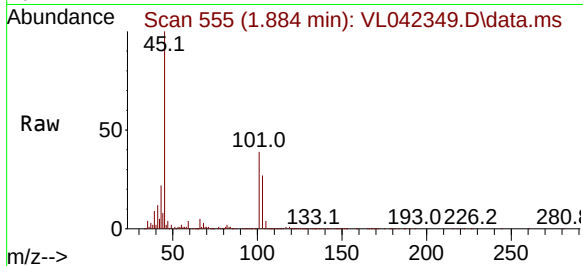




#19
Isopropyl Alcohol
Concen: 9.031 ppbv
RT: 1.884 min Scan# 511
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

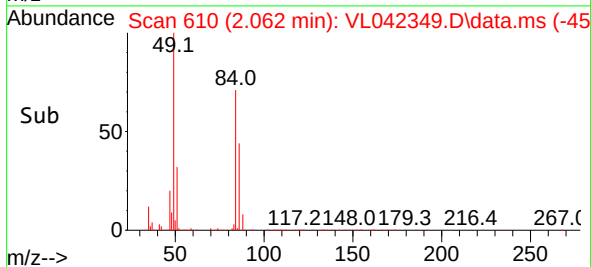
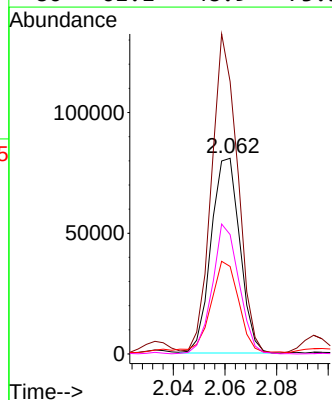
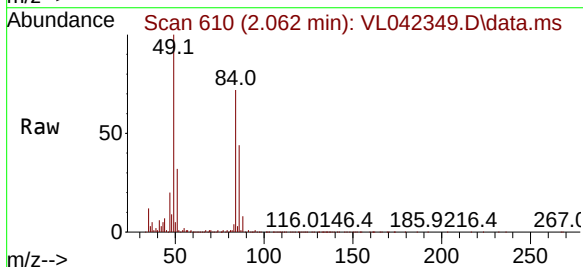
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

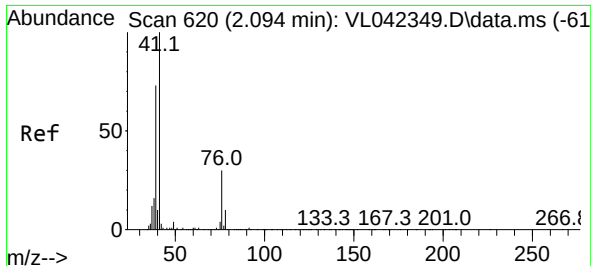
Tgt Ion: 45 Resp: 103029
Ion Ratio Lower Upper
45 100
58 43.1 34.5 51.7



#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

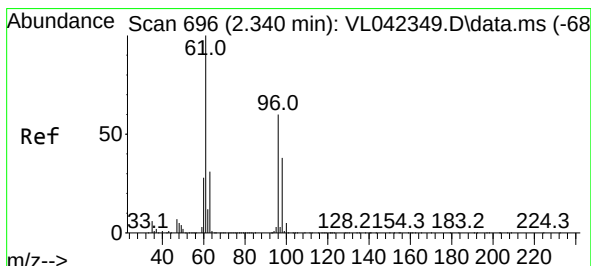
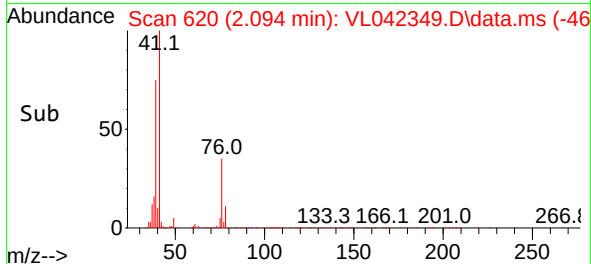
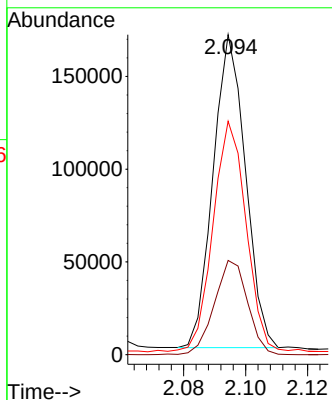
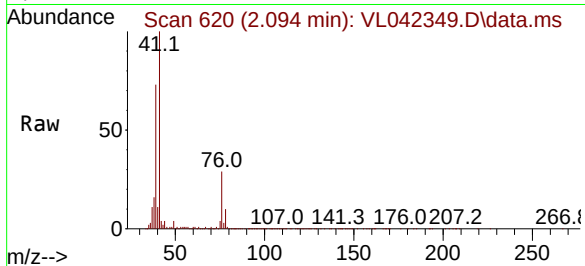




#21
 Allyl Chloride
 Concen: 8.611 ppbv
 RT: 2.094 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44

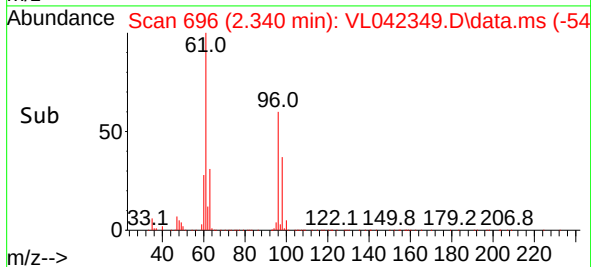
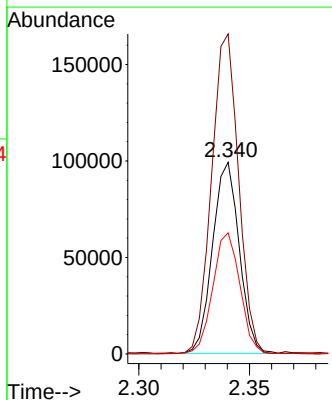
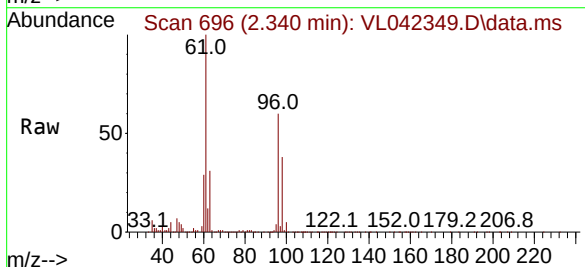
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

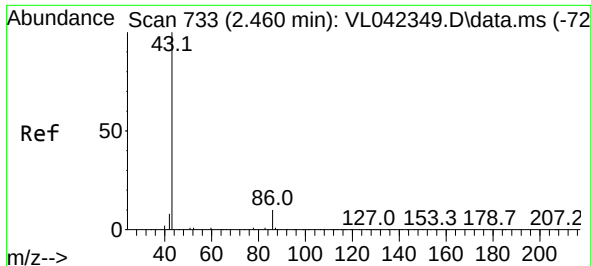
Tgt Ion: 41 Resp: 122115
 Ion Ratio Lower Upper
 41 100
 76 31.0 24.8 37.2
 39 75.7 60.6 90.8



#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



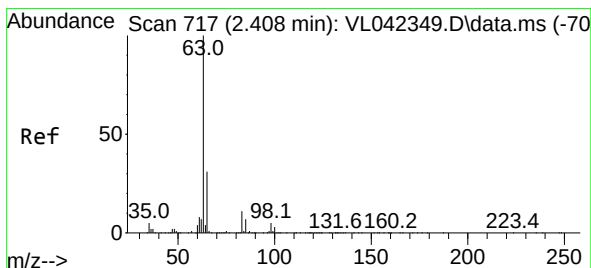
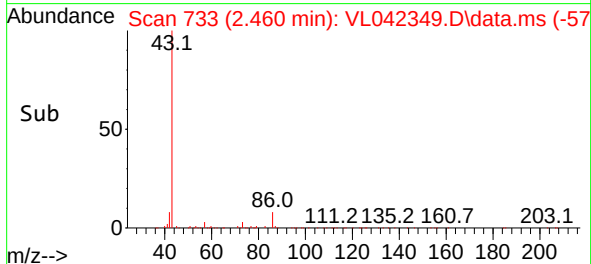
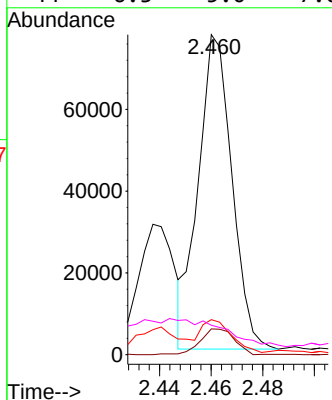
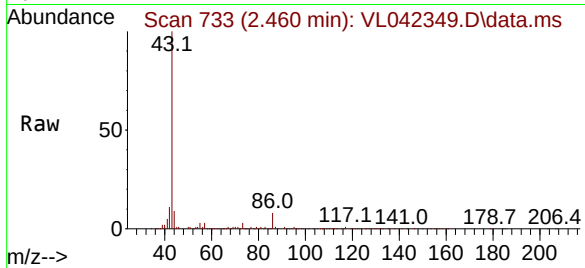


#23
Vinyl Acetate
Concen: 8.378 ppbv
RT: 2.460 min Scan# 717
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

Tgt Ion: 43 Resp: 69649

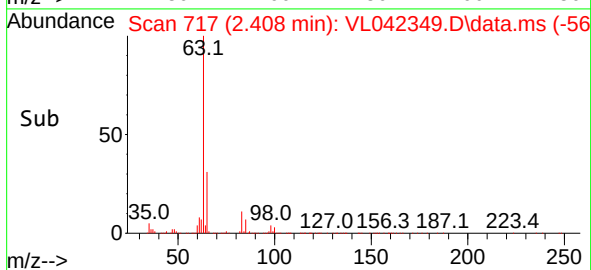
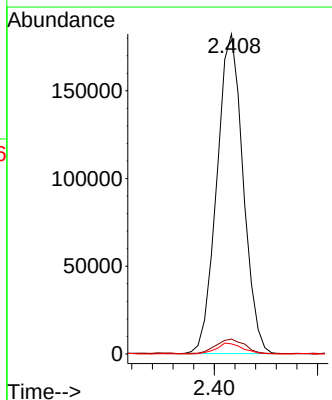
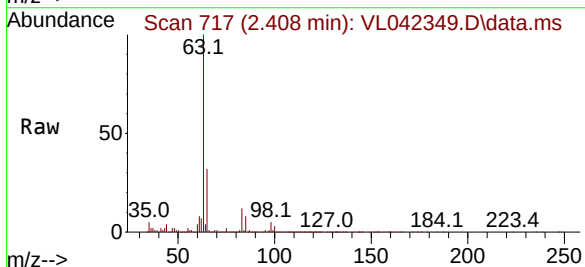
Ion	Ratio	Lower	Upper
43	100		
86	8.1	6.5	9.7
42	9.8	7.8	11.8
44	6.3	5.0	7.6

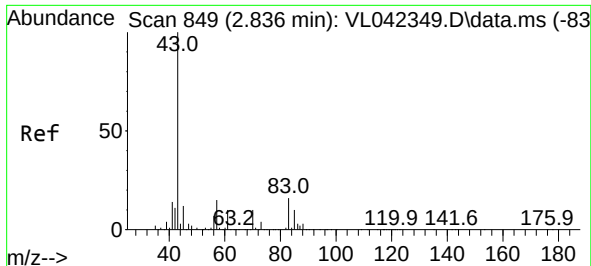


#24
1,1-Dichloroethane
Concen: 9.251 ppbv
RT: 2.408 min Scan# 717
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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



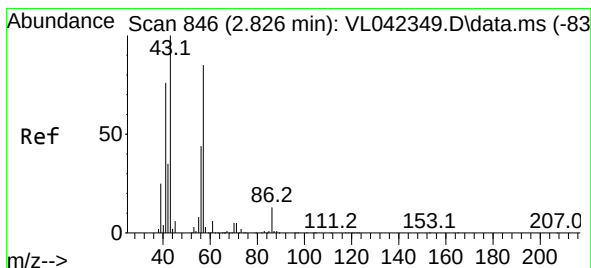
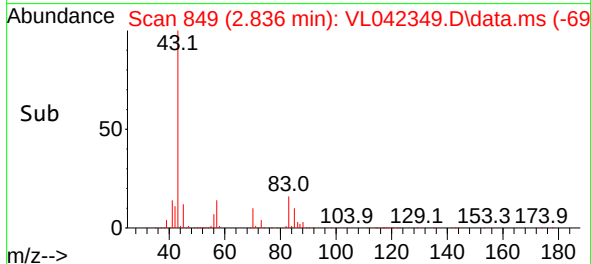
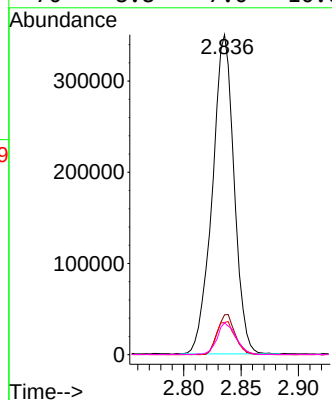
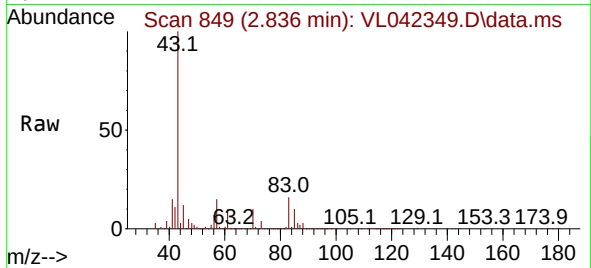


#25
Ethyl Acetate
Concen: 9.110 ppbv
RT: 2.836 min Scan# 849
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

Tgt Ion: 43 Resp: 461315

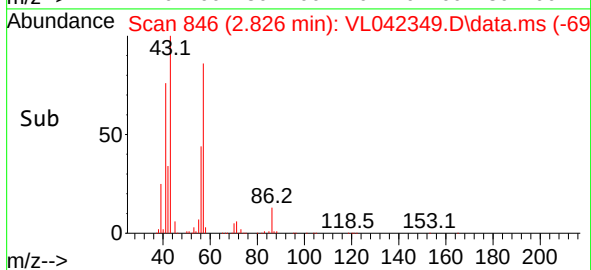
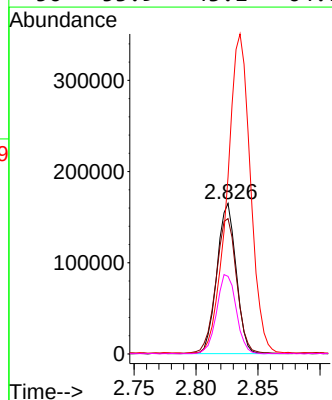
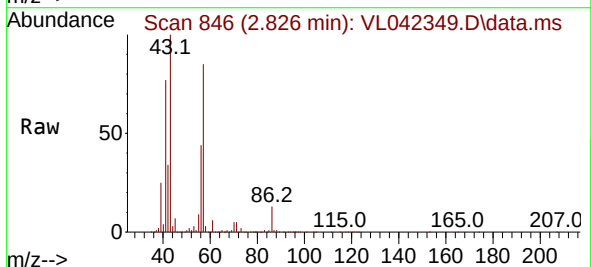
Ion	Ratio	Lower	Upper
43	100		
45	10.4	8.3	12.5
61	9.1	7.3	10.9
70	8.8	7.0	10.6

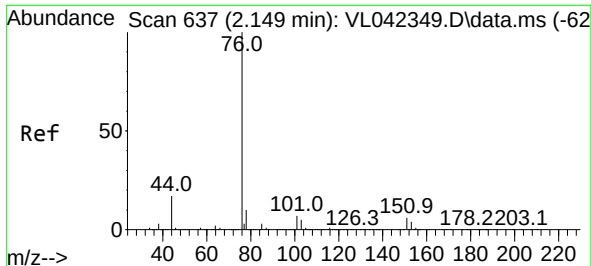


#26
Hexane
Concen: 8.720 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

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

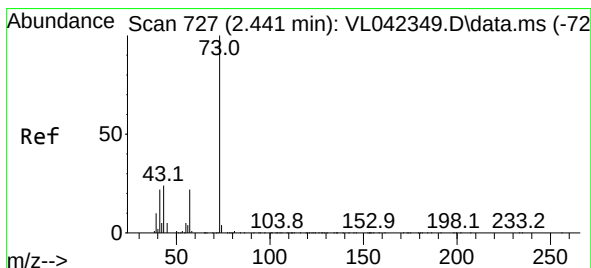
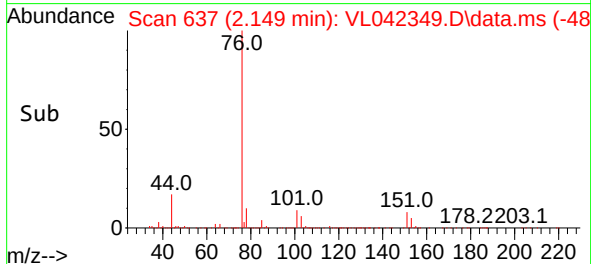
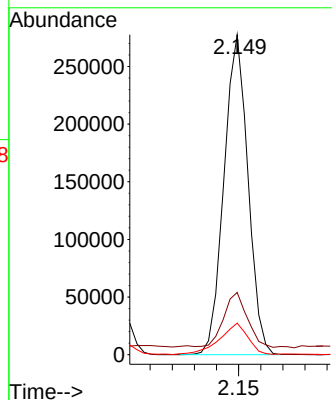
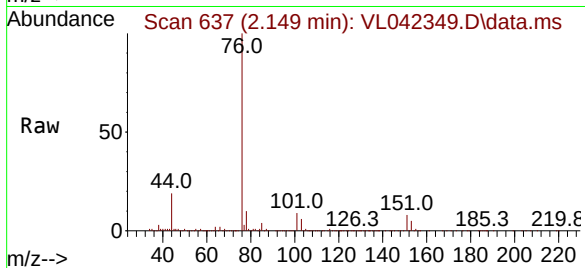




#27
Carbon Disulfide
Concen: 9.539 ppbv
RT: 2.149 min Scan# 61
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

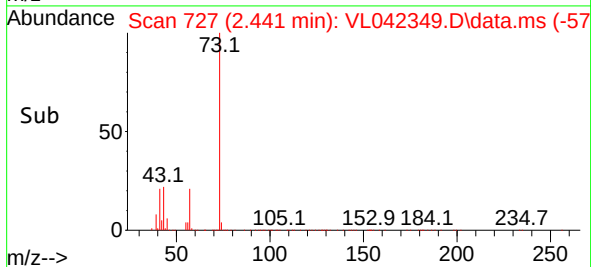
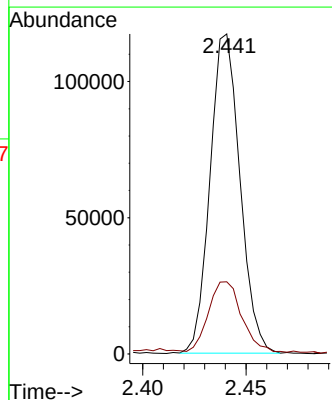
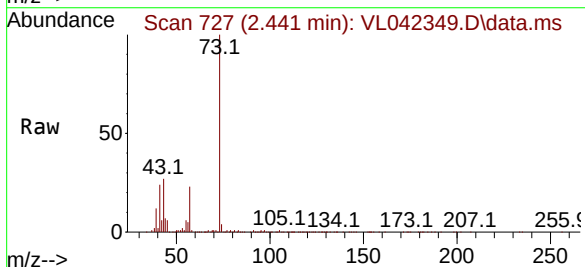
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

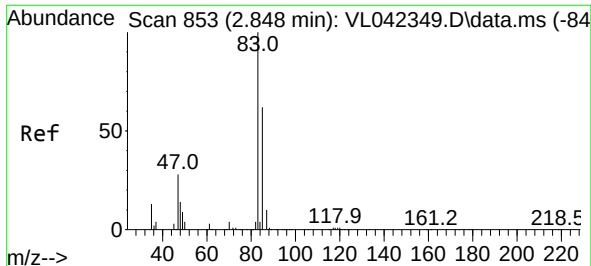
Tgt Ion: 76 Resp: 209297
Ion Ratio Lower Upper
76 100
44 19.4 15.5 23.3
78 11.6 9.3 13.9



#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 :

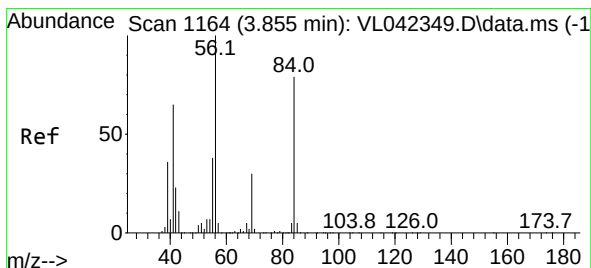
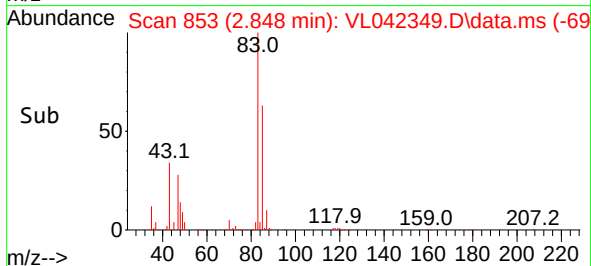
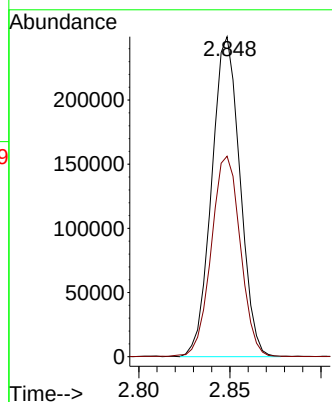
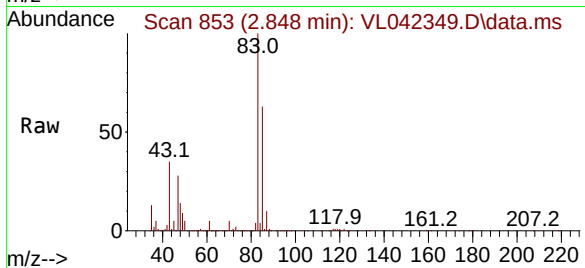
VSTDICCC010

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

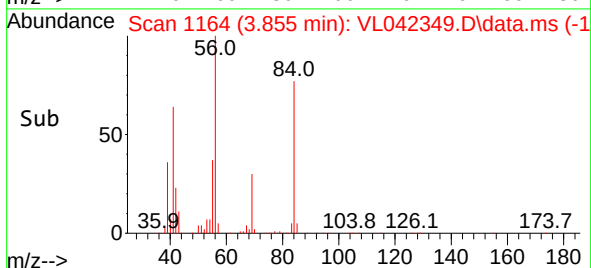
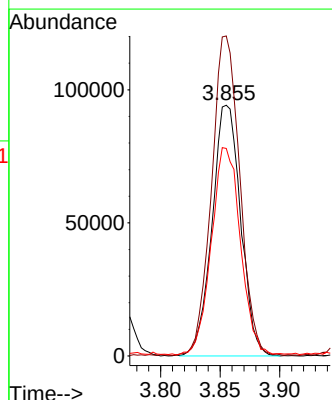
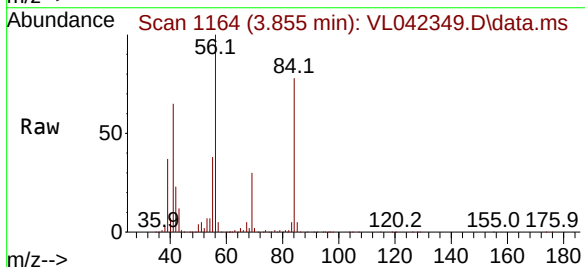
Tgt Ion: 84 Resp: 157035

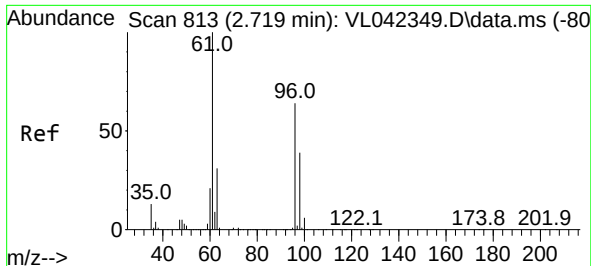
Ion Ratio Lower Upper

84 100

56 126.2 101.0 151.4

41 84.2 67.4 101.0

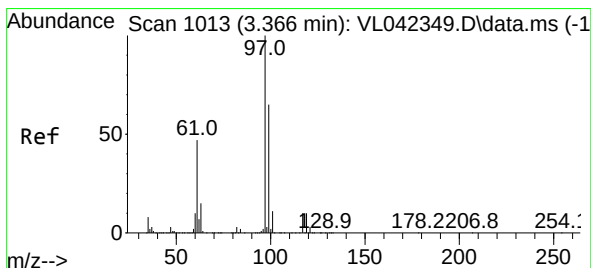
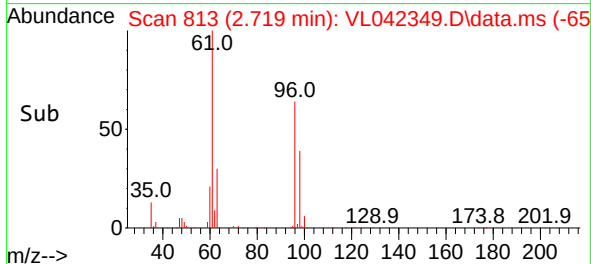
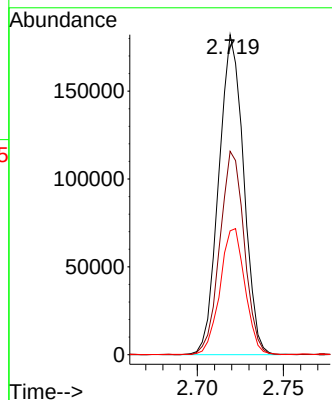
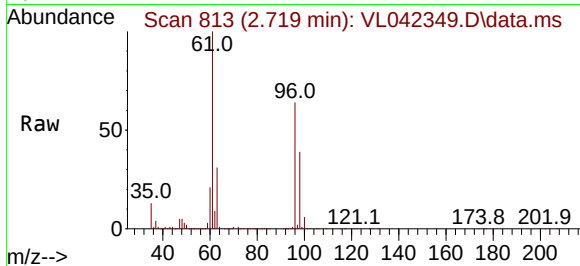




#31
 cis-1,2-Dichloroethene
 Concen: 9.397 ppbv
 RT: 2.719 min Scan# 813
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44

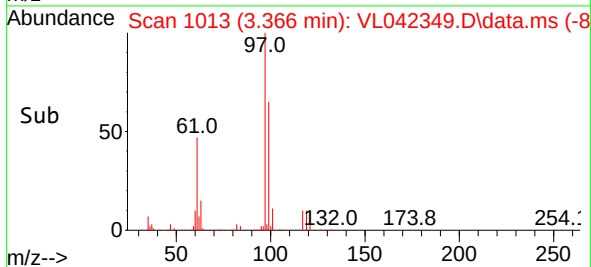
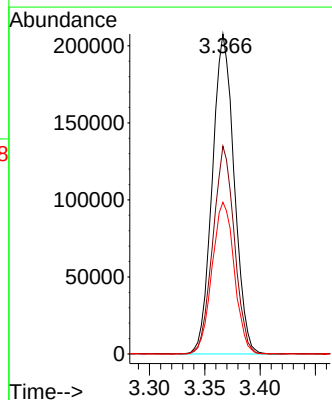
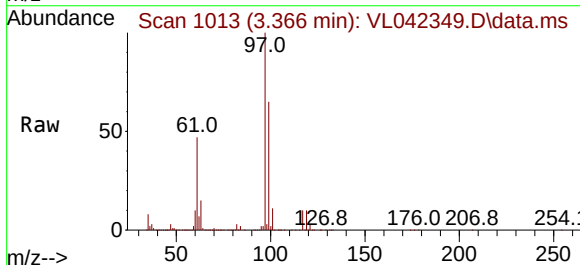
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

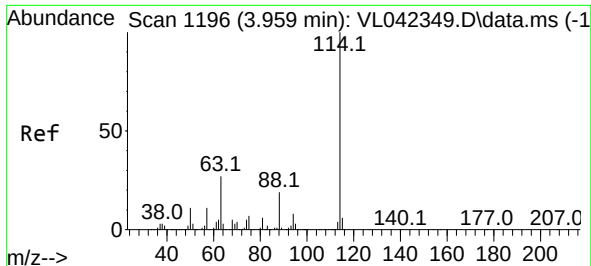
Tgt Ion: 61 Resp: 183082
 Ion Ratio Lower Upper
 61 100
 96 63.5 50.8 76.2
 98 38.6 30.9 46.3



#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

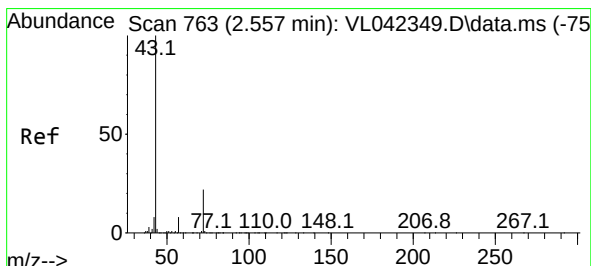
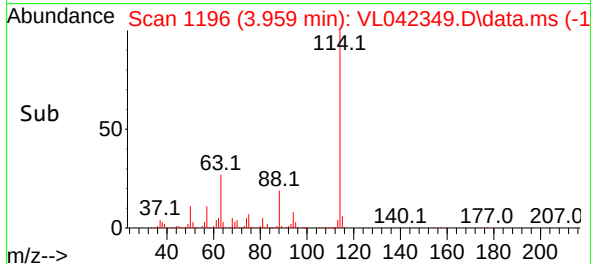
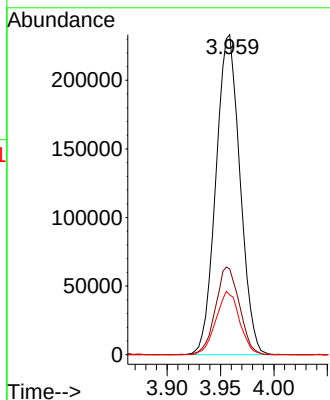
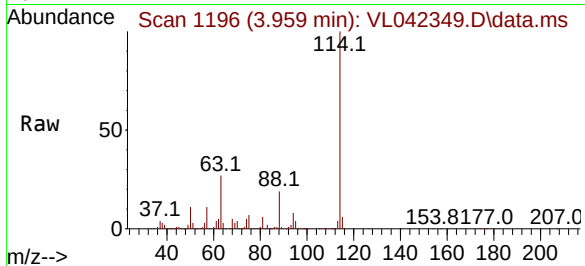




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

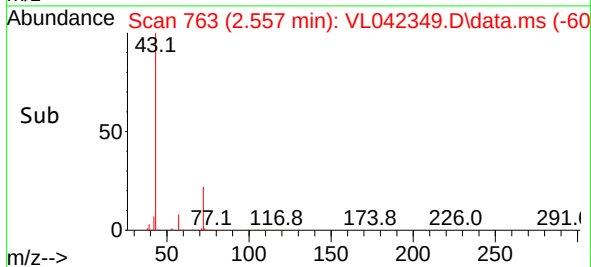
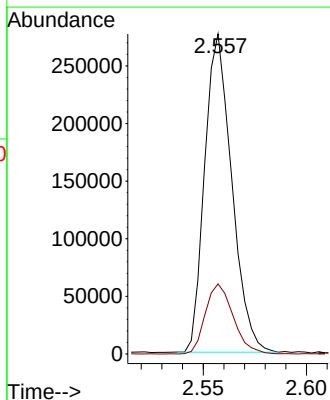
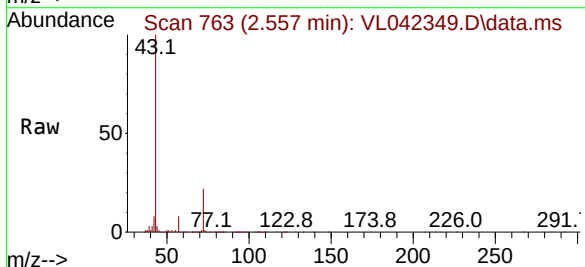
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

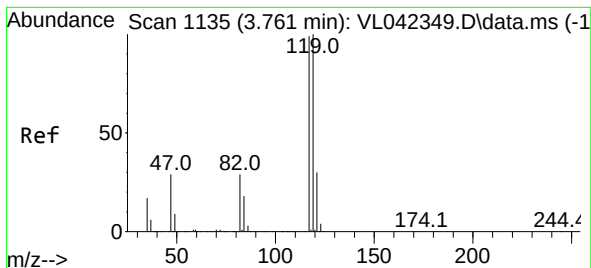
Tgt Ion:114 Resp: 366544
Ion Ratio Lower Upper
114 100
63 27.2 21.8 32.6
88 19.4 15.5 23.3



#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

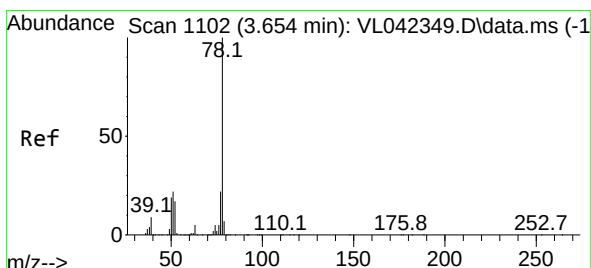
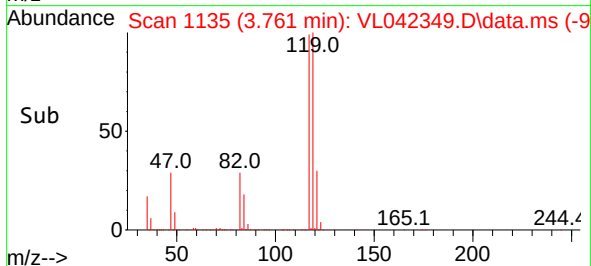
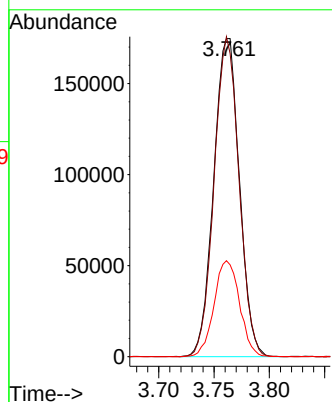
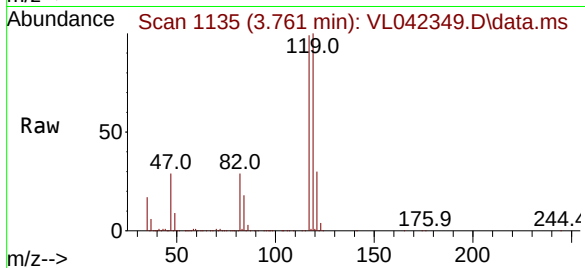
Tgt Ion:117 Resp: 282402

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

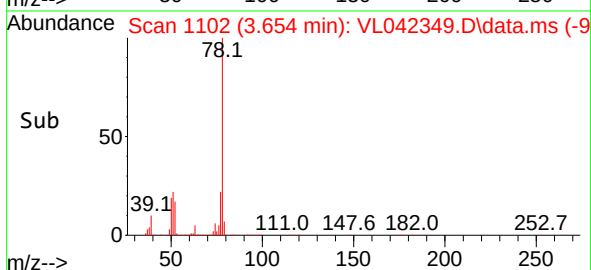
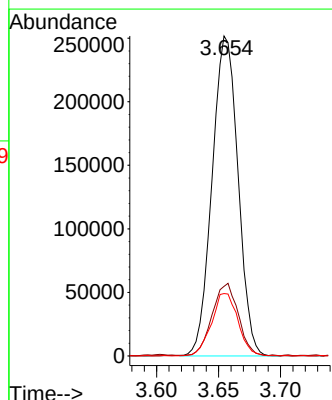
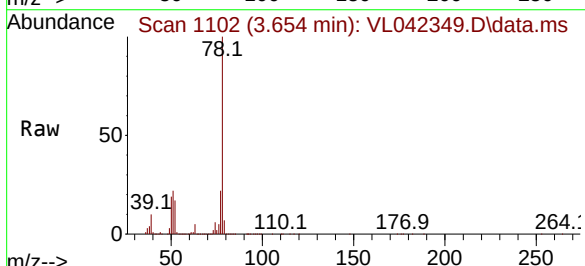
Tgt Ion: 78 Resp: 367355

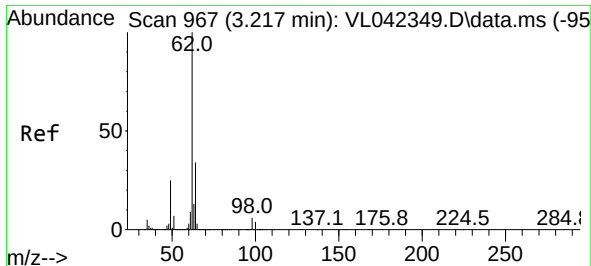
Ion Ratio Lower Upper

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# 9

Delta R.T. 0.000 min

Lab File: VL042349.D

Acq: 17 Apr 2025 09:44

Instrument :

MSVOA_1

ClientSampleId :

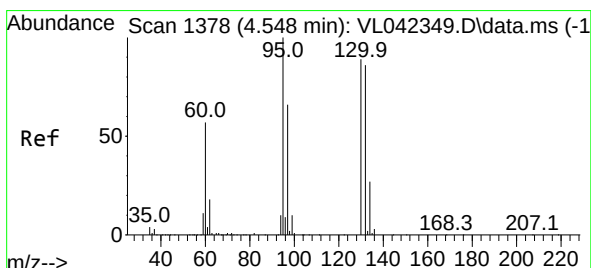
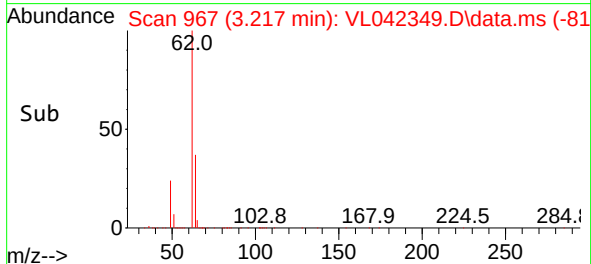
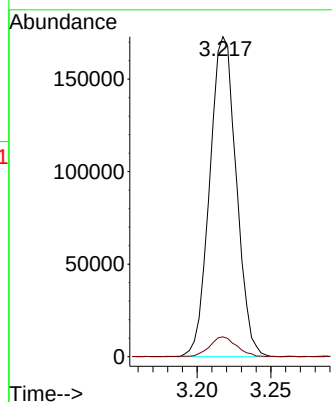
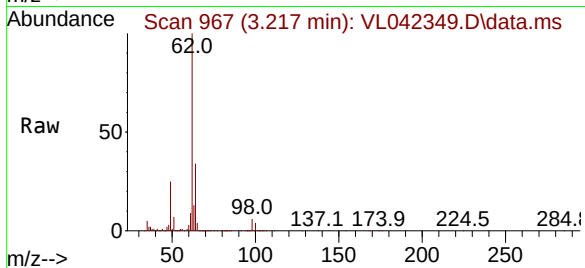
VSTDICCC010

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

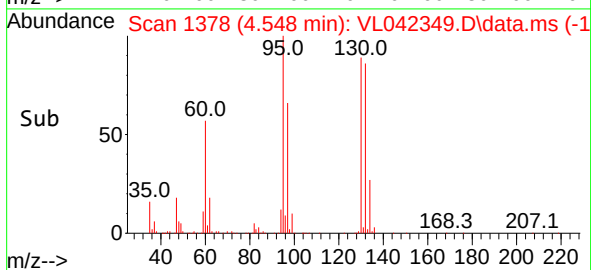
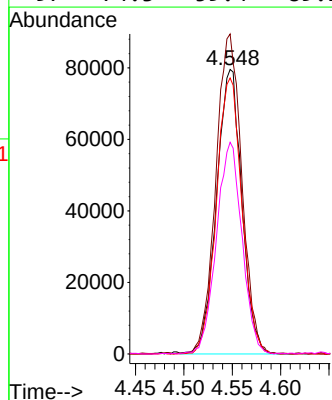
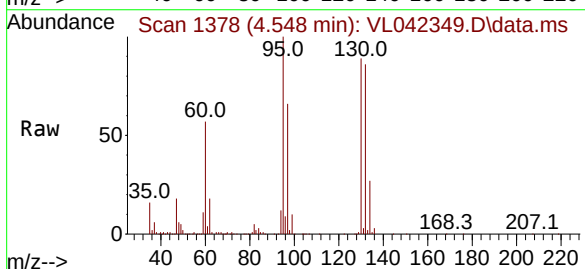
Ion Ratio Lower Upper

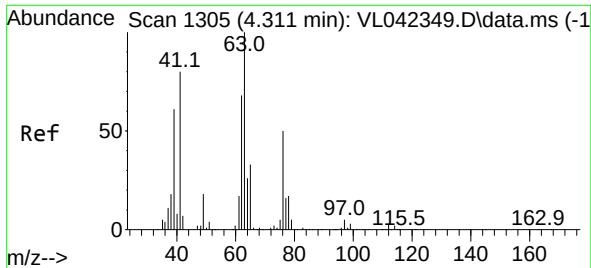
130 100

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

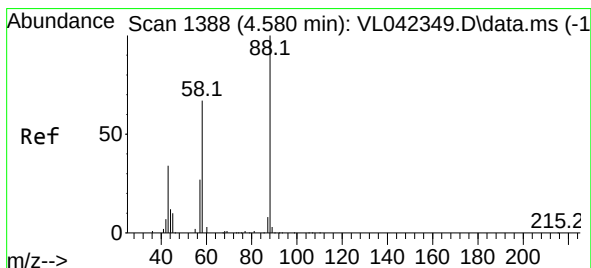
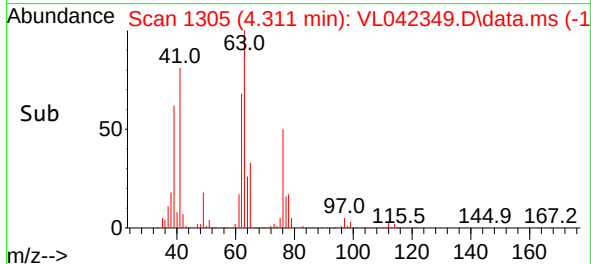
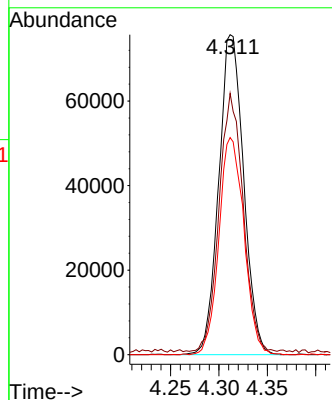
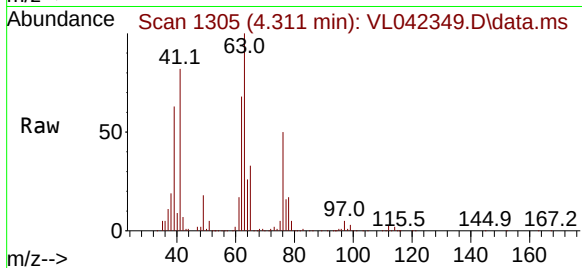
Tgt Ion: 63 Resp: 135605

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

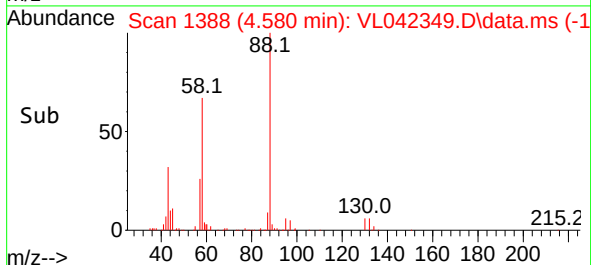
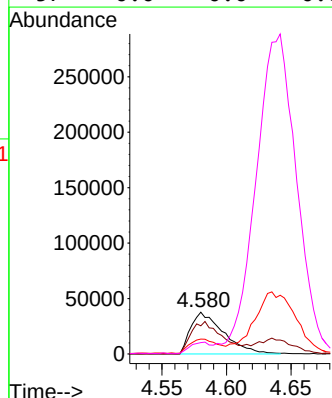
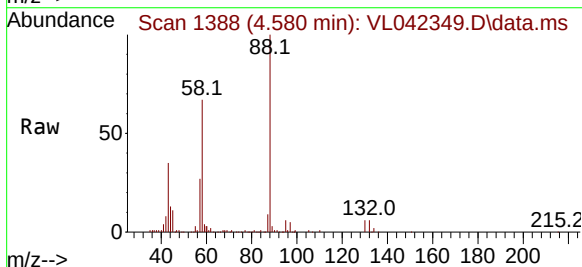
Ion Ratio Lower Upper

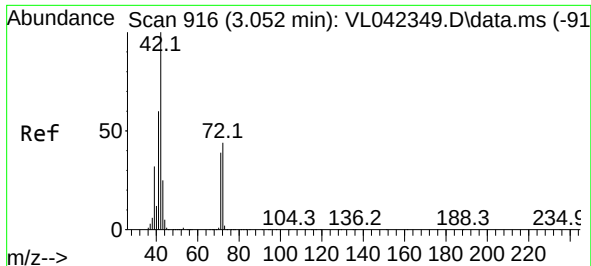
88 100

58 76.7 61.4 92.0

43 29.0 23.2 34.8

57 0.0 0.0 0.0

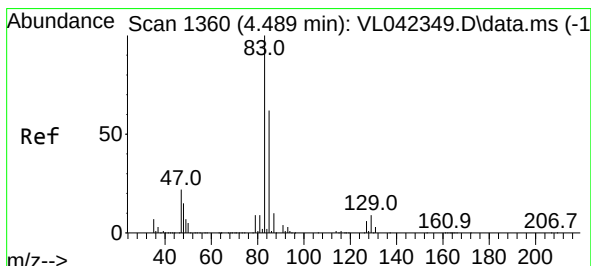
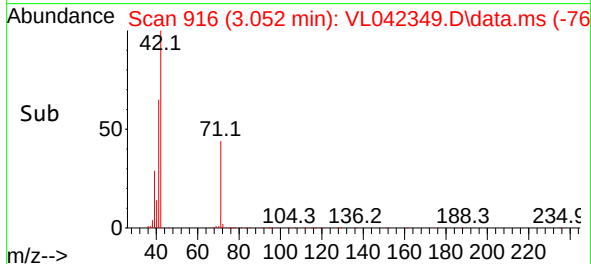
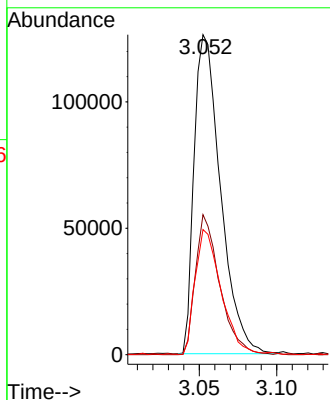
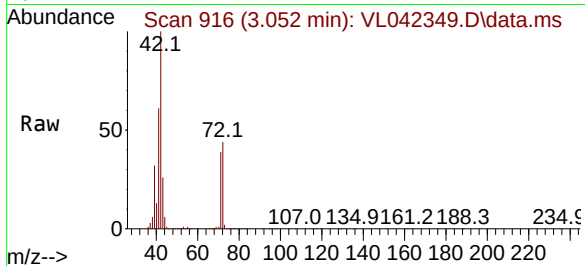




#41
Tetrahydrofuran
Concen: 8.950 ppbv
RT: 3.052 min Scan# 916
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

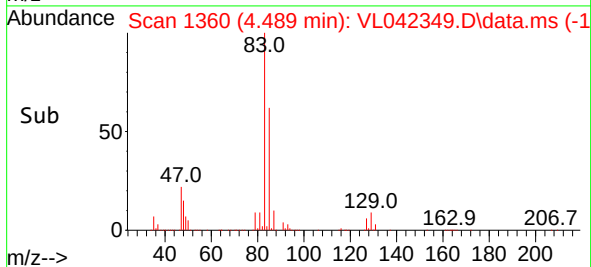
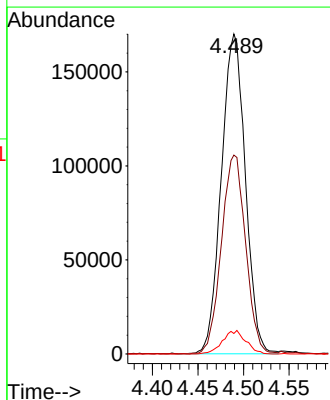
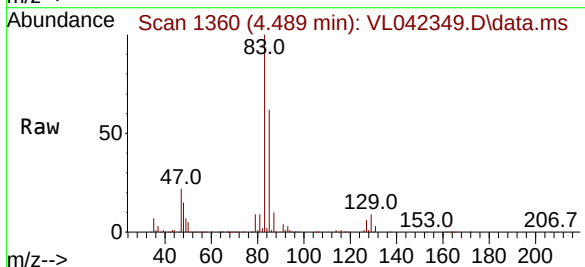
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

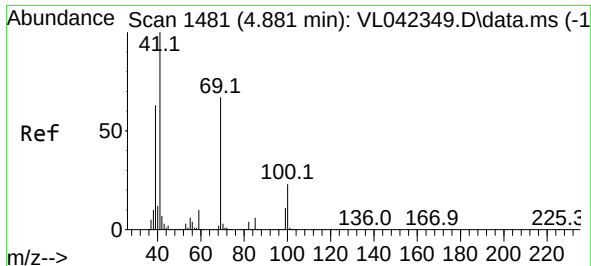
Tgt Ion: 42 Resp: 149905
Ion Ratio Lower Upper
42 100
72 40.4 32.3 48.5
71 39.3 31.4 47.2



#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

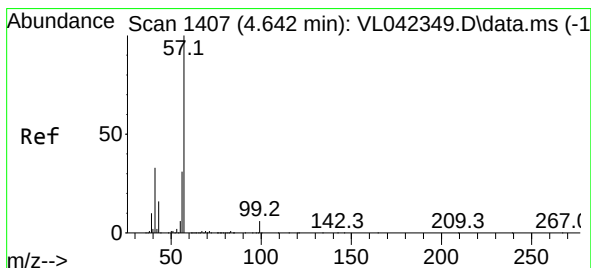
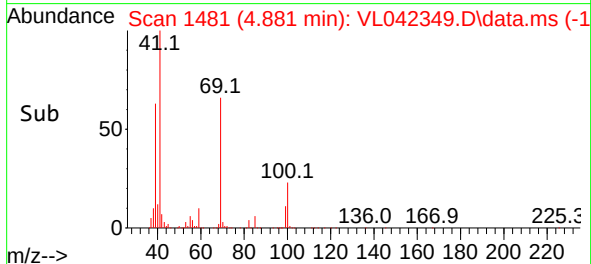
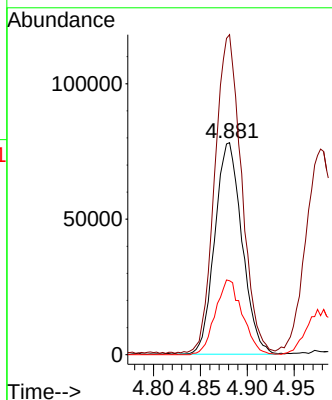
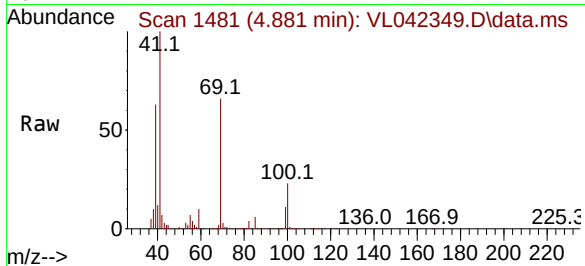




#43
Methyl Methacrylate
Concen: 8.876 ppbv
RT: 4.881 min Scan# 1481
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

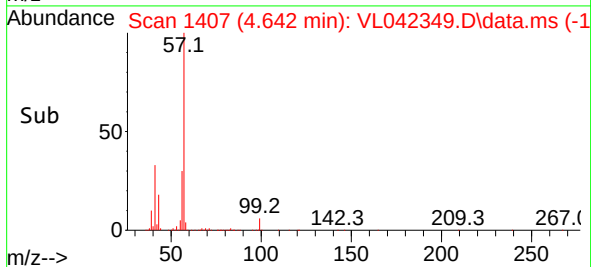
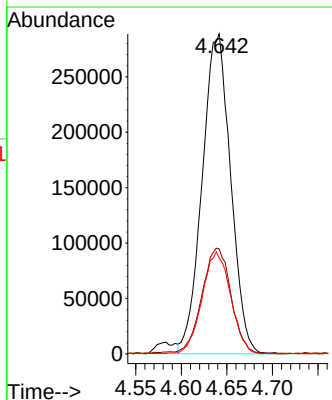
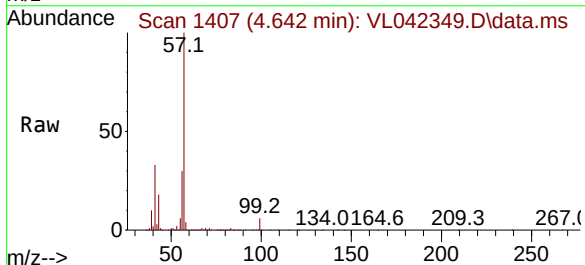
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

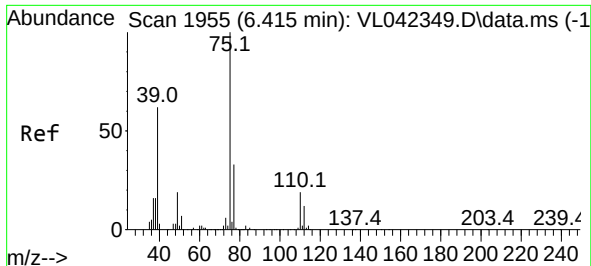
Tgt Ion: 69 Resp: 157501
Ion Ratio Lower Upper
69 100
41 148.2 118.6 177.8
100 35.2 28.2 42.2



#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 :

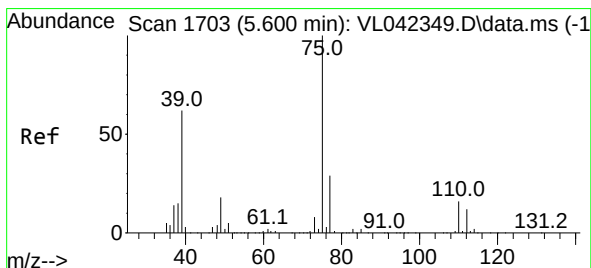
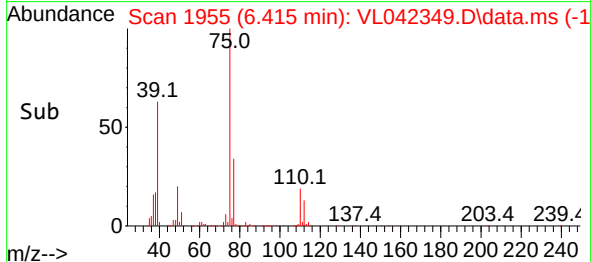
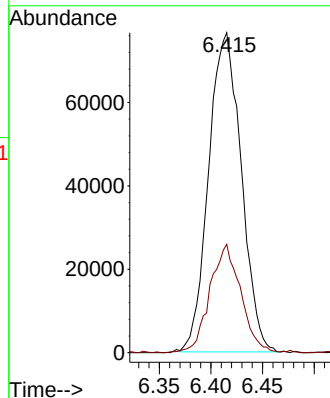
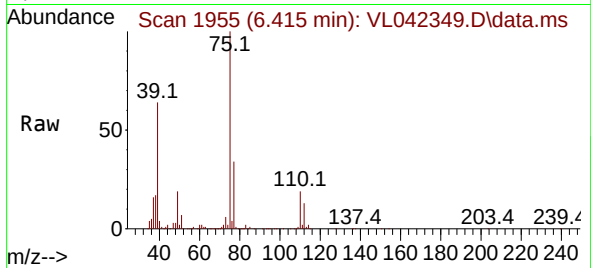
VSTDICCC010

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

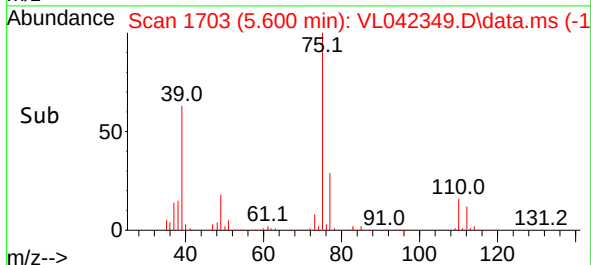
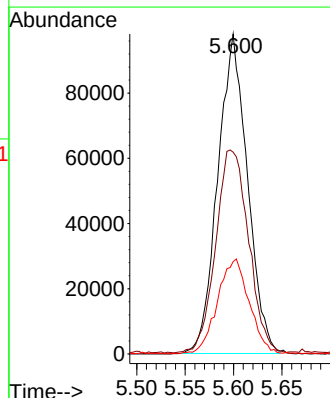
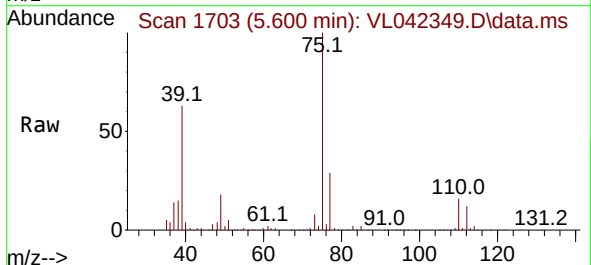
Tgt Ion: 75 Resp: 208811

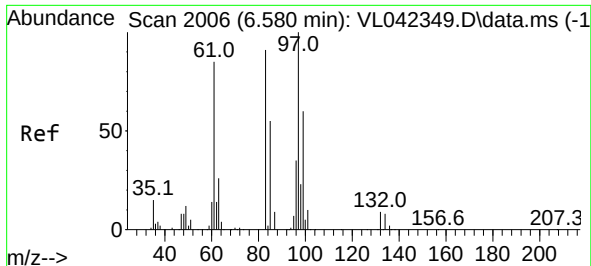
Ion Ratio Lower Upper

75 100

39 62.5 50.0 75.0

77 28.8 23.0 34.6

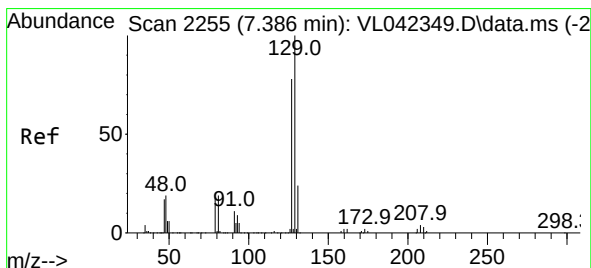
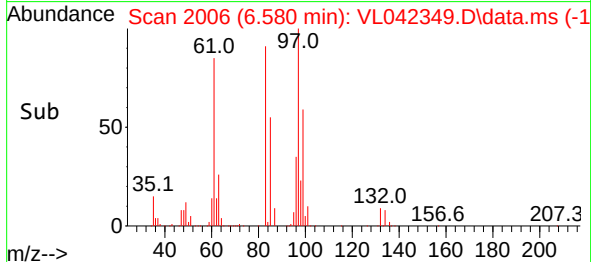
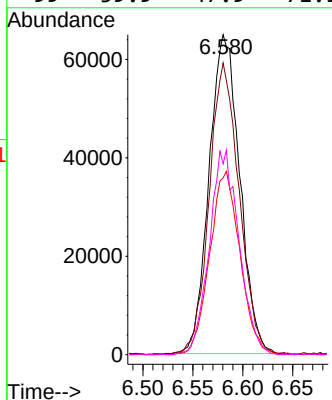
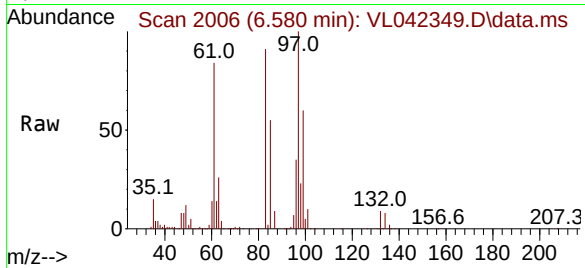




#47
 1,1,2-Trichloroethane
 Concen: 9.181 ppbv
 RT: 6.580 min Scan# 2006
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44

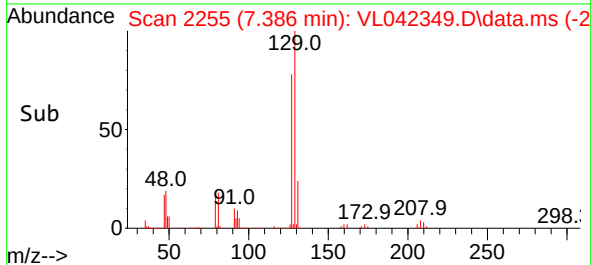
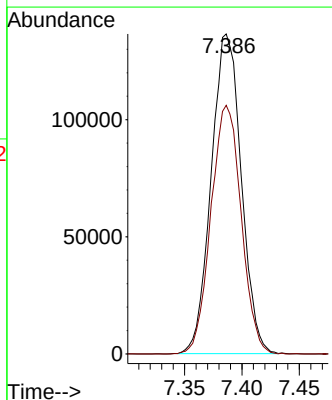
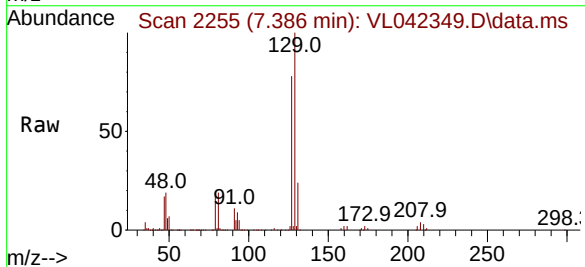
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

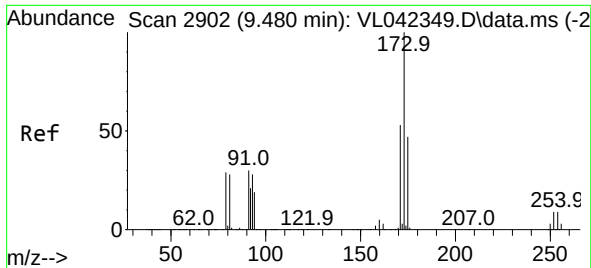
Tgt Ion:	97	Resp:	137898
Ion	Ratio	Lower	Upper
97	100		
83	91.0	72.8	109.2
85	55.3	44.2	66.4
99	59.9	47.9	71.9



#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

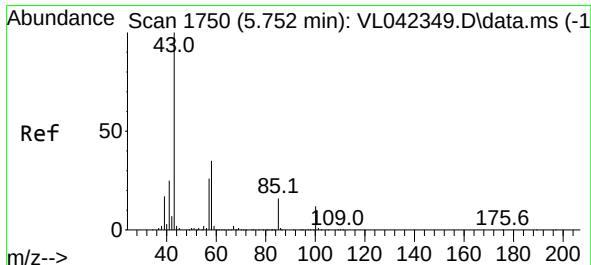
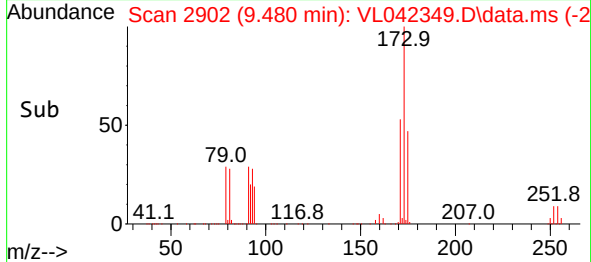
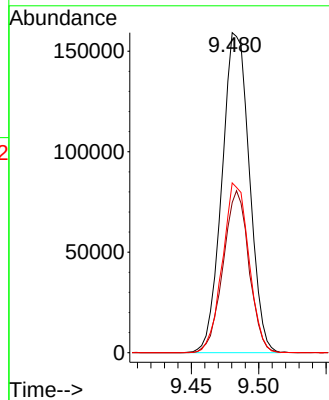
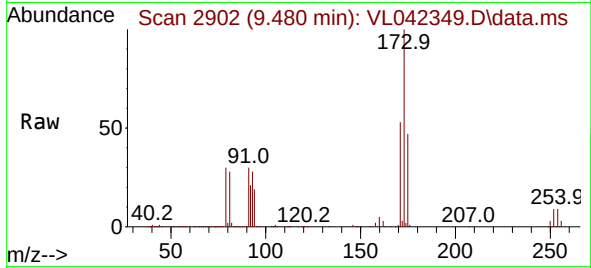
Tgt Ion:173 Resp: 225706

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

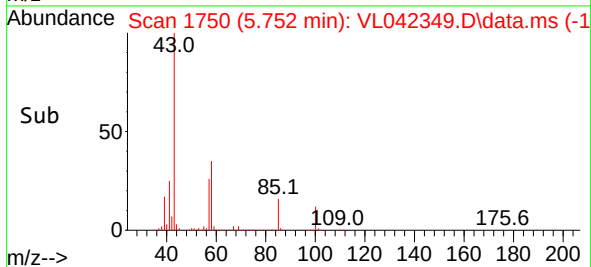
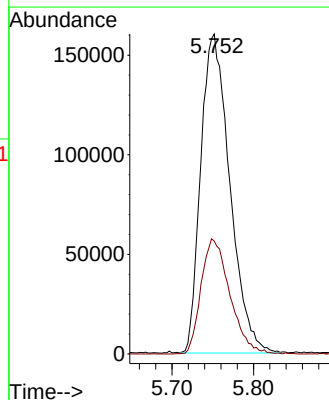
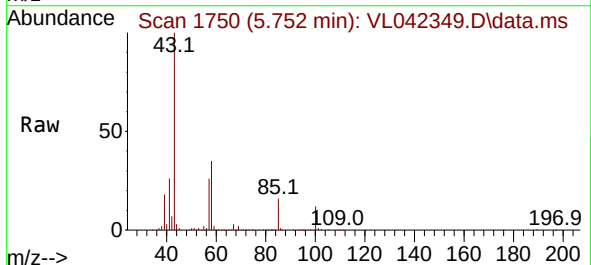
Acq: 17 Apr 2025 09:44

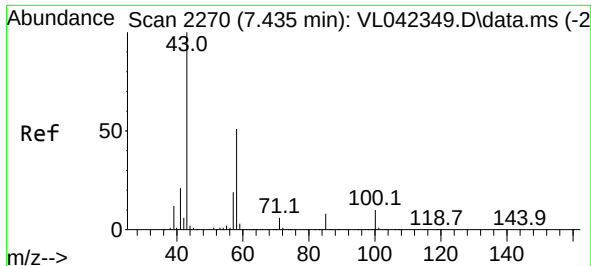
Tgt Ion: 43 Resp: 396548

Ion Ratio Lower Upper

43 100

58 35.8 28.6 43.0

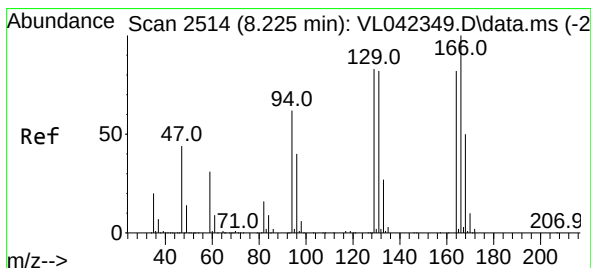
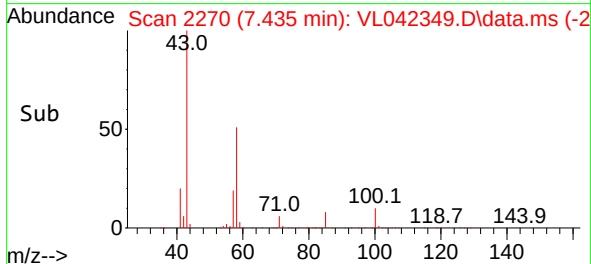
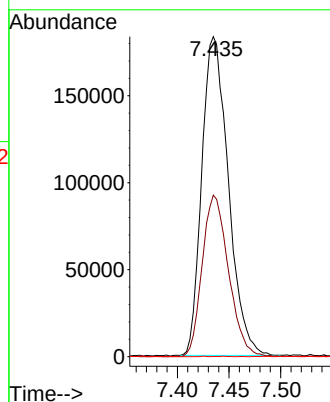
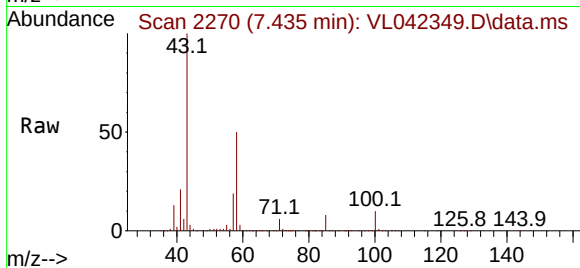




#51
2-Hexanone
Concen: 7.511 ppbv
RT: 7.435 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

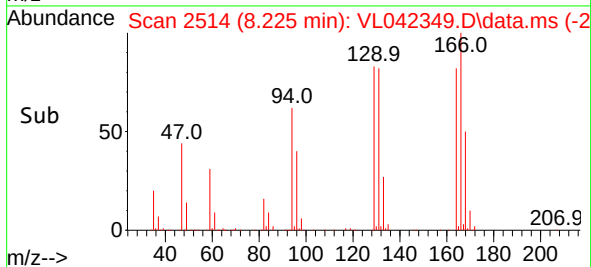
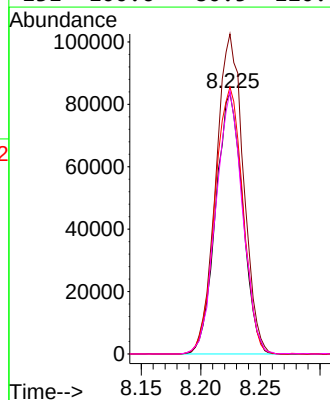
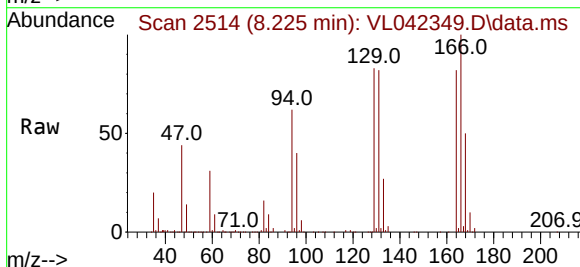
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

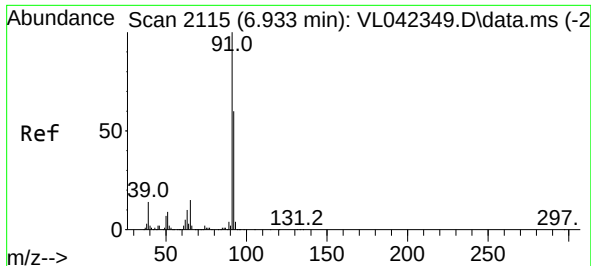
Tgt Ion: 43 Resp: 327165
Ion Ratio Lower Upper
43 100
58 50.3 40.2 60.4
98 0.1 0.1 0.1



#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

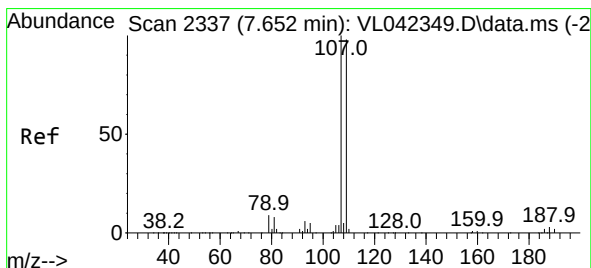
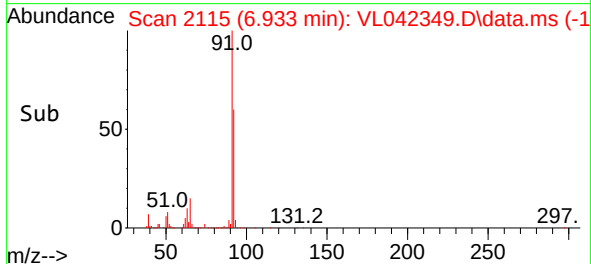
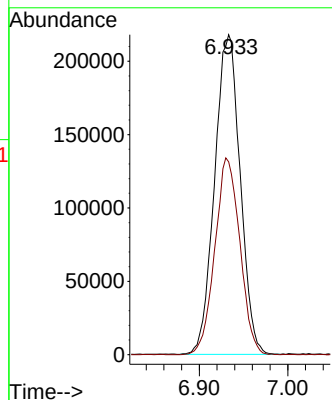
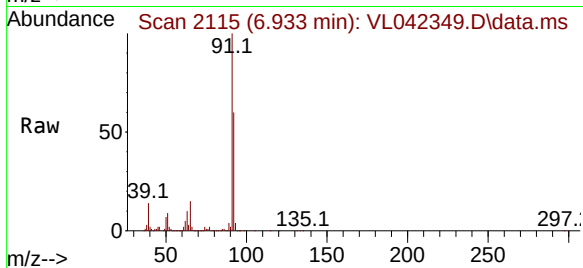




#53
Toluene
Concen: 9.216 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

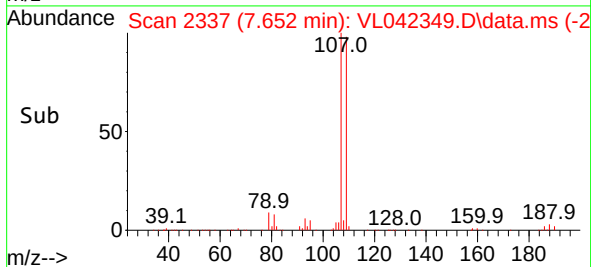
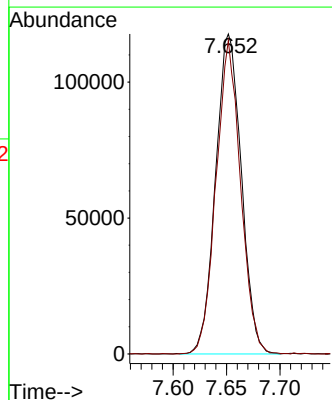
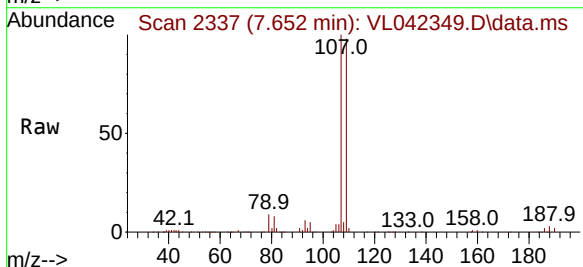
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

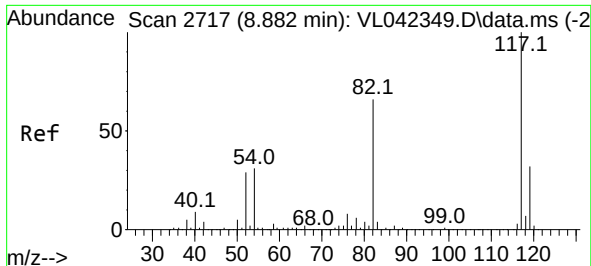
Tgt Ion: 91 Resp: 437258
Ion Ratio Lower Upper
91 100
92 60.3 48.2 72.4



#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

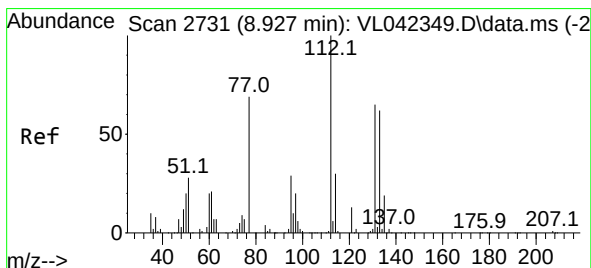
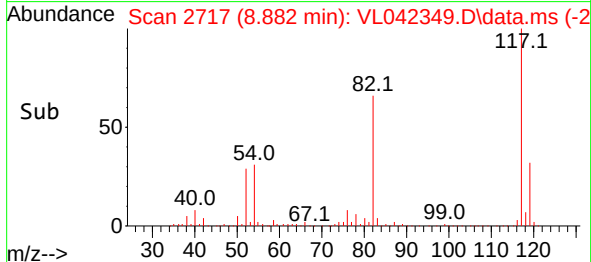
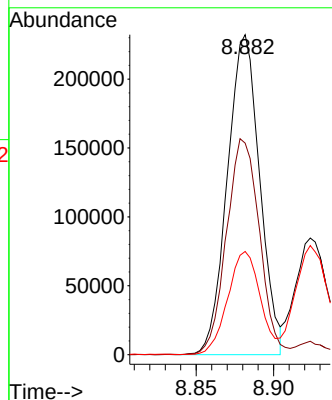
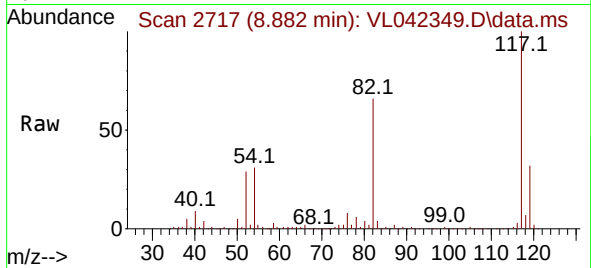




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2717
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

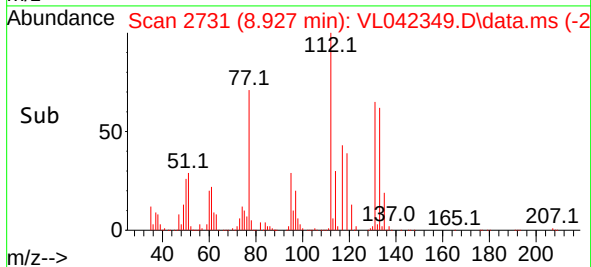
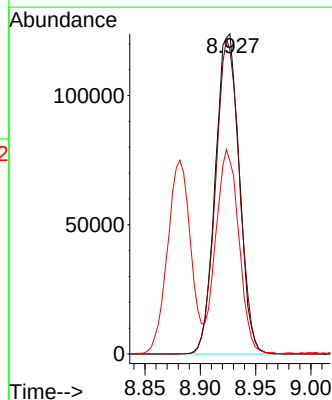
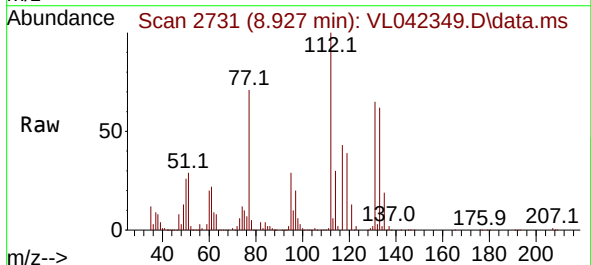
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

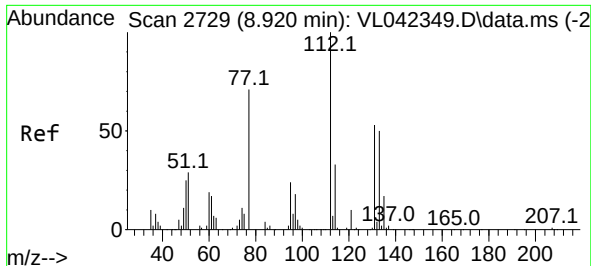
Tgt Ion:117 Resp: 338126
Ion Ratio Lower Upper
117 100
82 72.2 57.8 86.6
119 31.5 25.2 37.8



#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

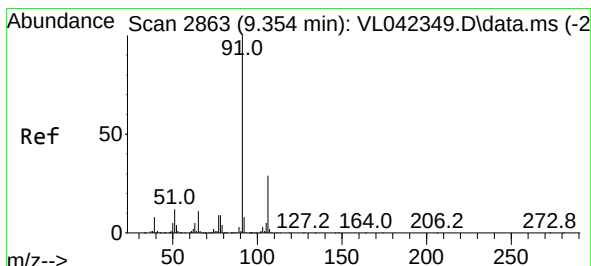
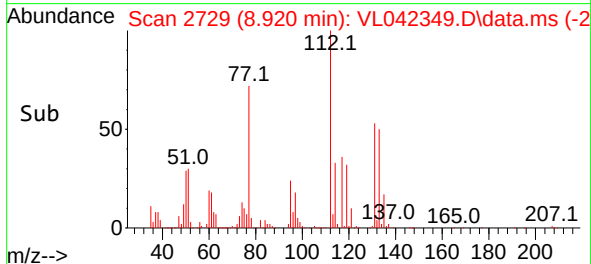
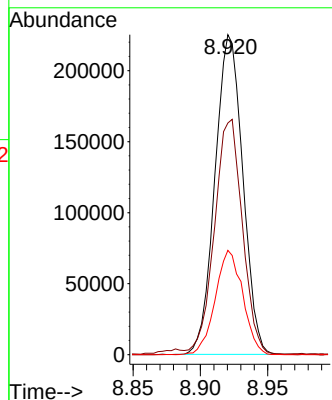
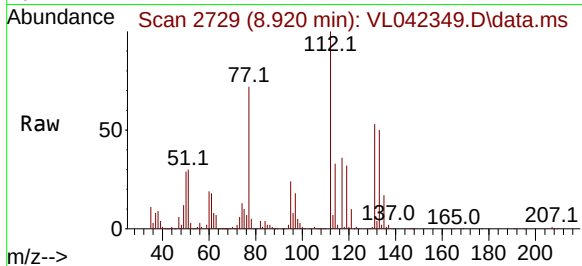




#57
Chlorobenzene
Concen: 9.187 ppbv
RT: 8.920 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

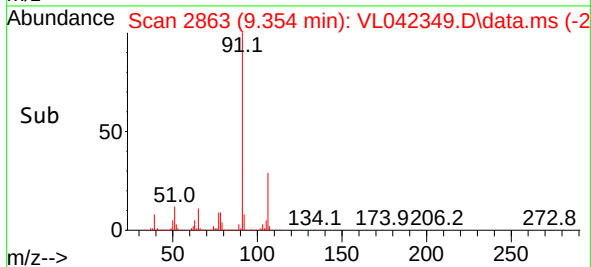
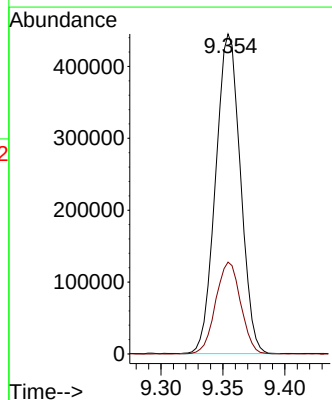
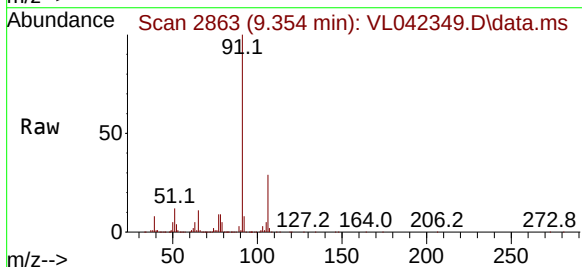
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

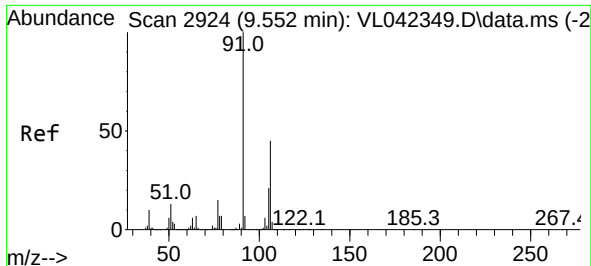
Tgt Ion:112 Resp: 323084
Ion Ratio Lower Upper
112 100
77 72.2 57.8 86.6
114 32.6 29.3 35.9



#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 :

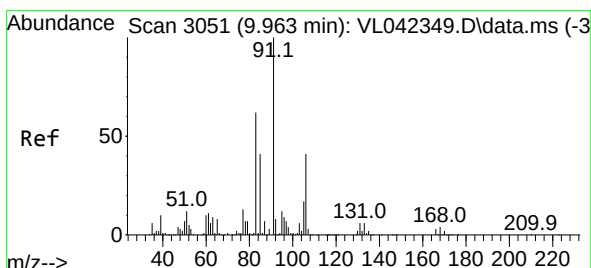
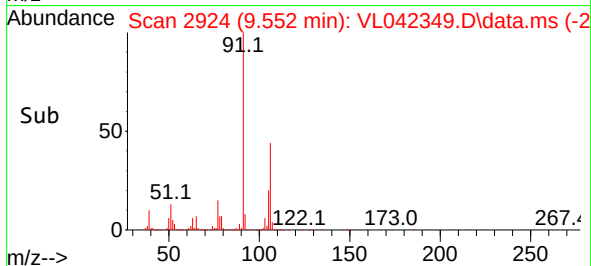
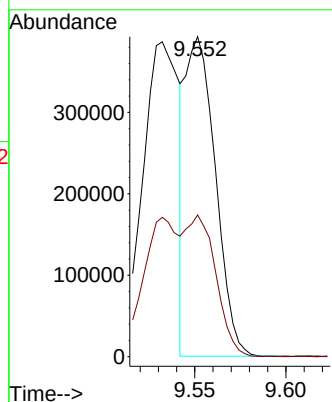
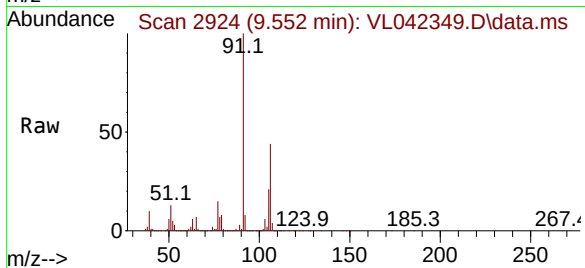
VSTDICCC010

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

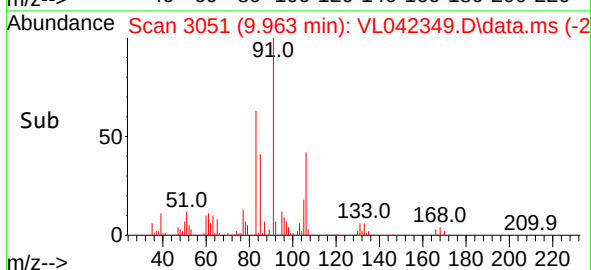
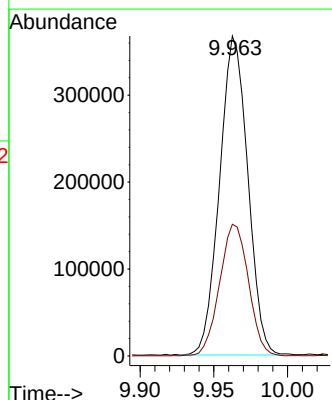
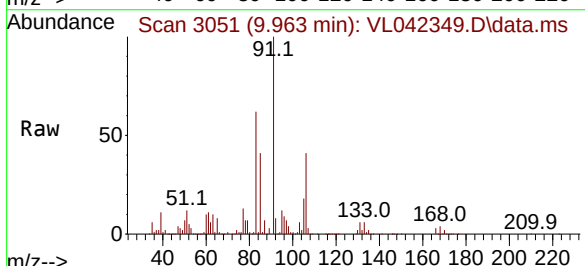
Acq: 17 Apr 2025 09:44

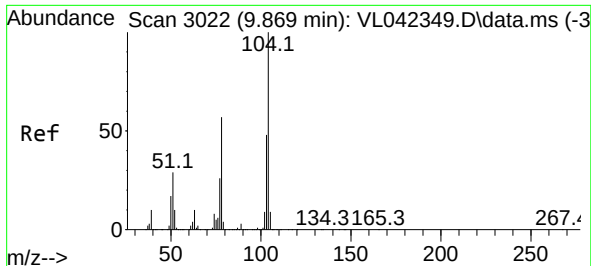
Tgt Ion: 91 Resp: 487616

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

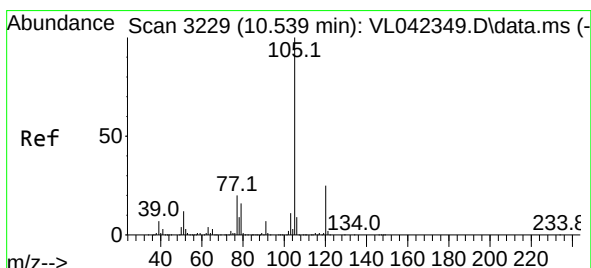
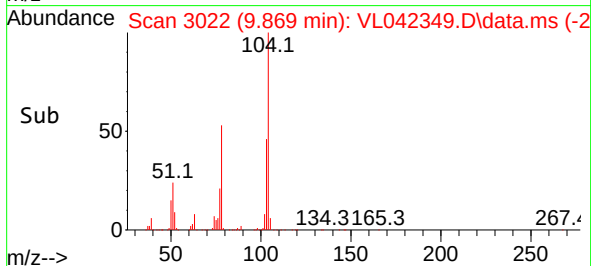
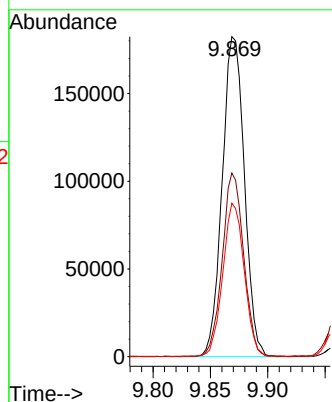
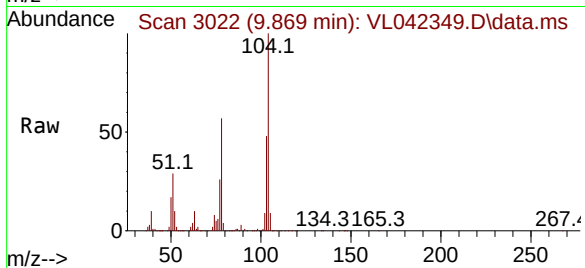
Tgt Ion:104 Resp: 245487

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

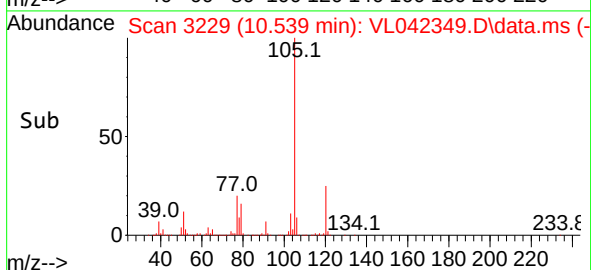
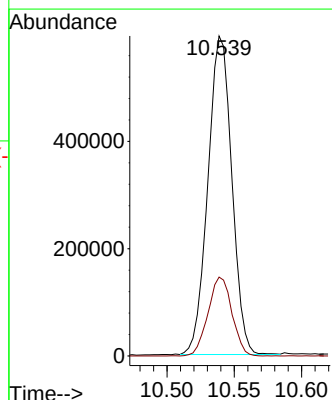
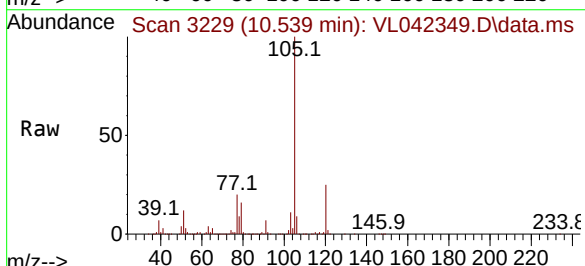
Acq: 17 Apr 2025 09:44

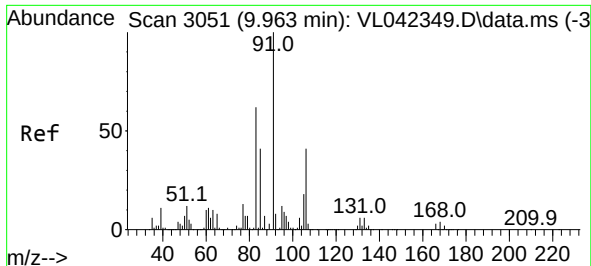
Tgt Ion:105 Resp: 733788

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

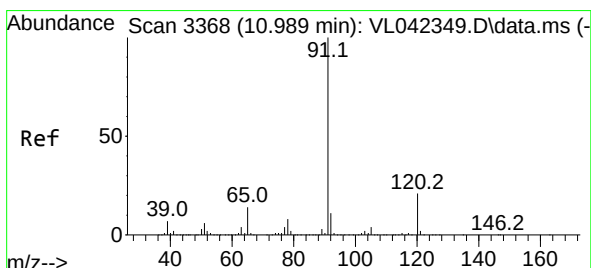
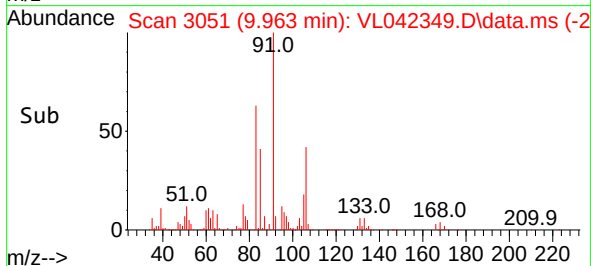
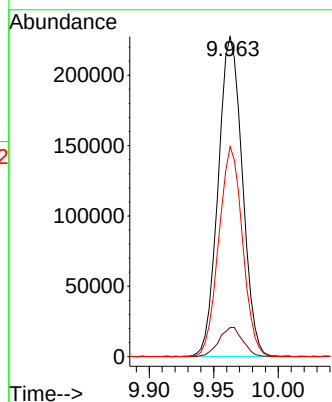
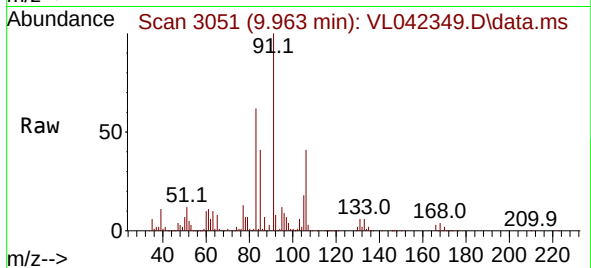
Tgt Ion: 83 Resp: 295041

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

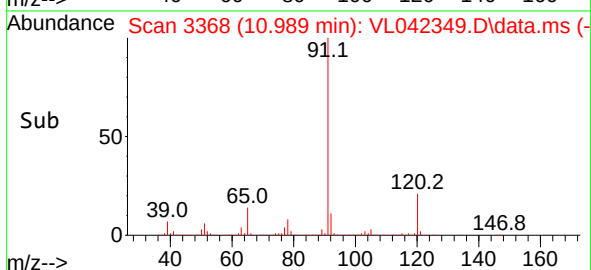
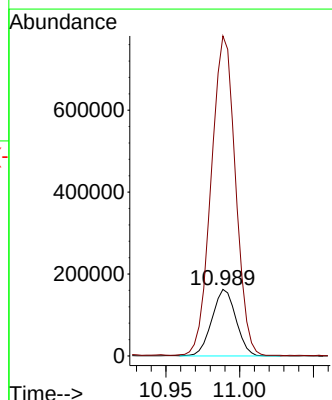
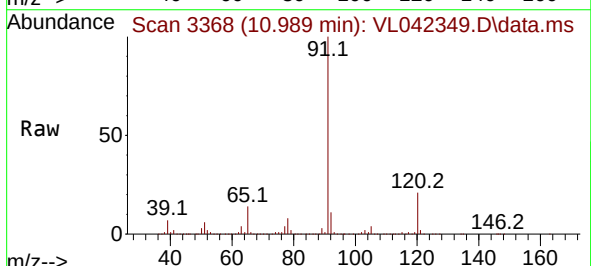
Acq: 17 Apr 2025 09:44

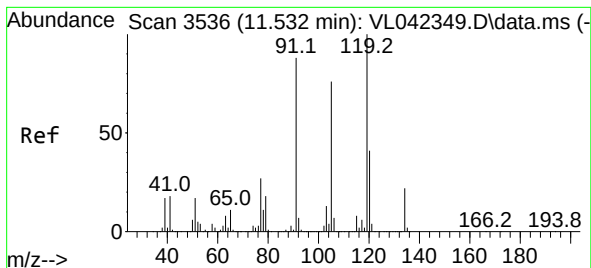
Tgt Ion: 120 Resp: 183390

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

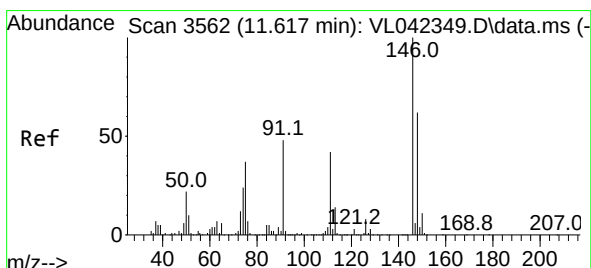
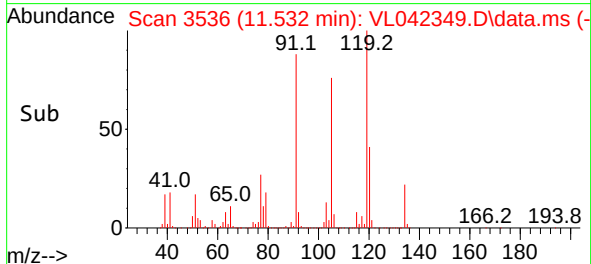
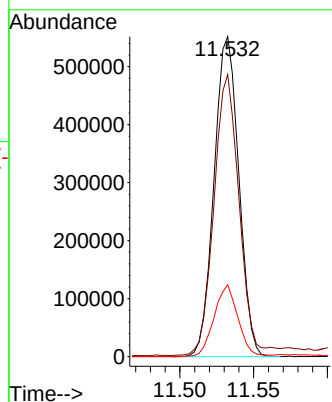
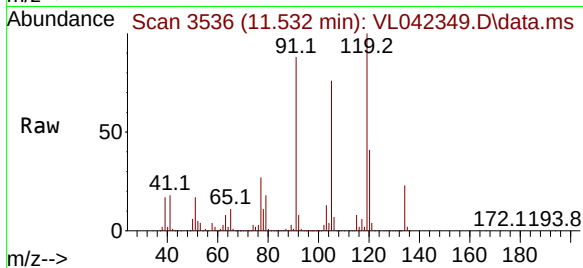
Tgt Ion:119 Resp: 644953

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

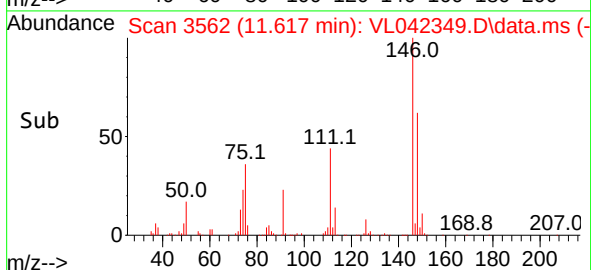
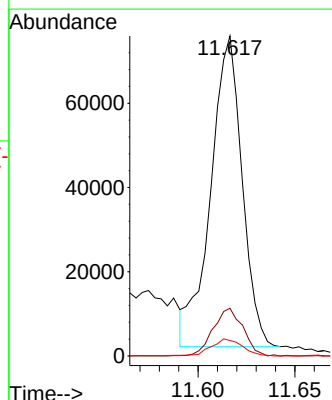
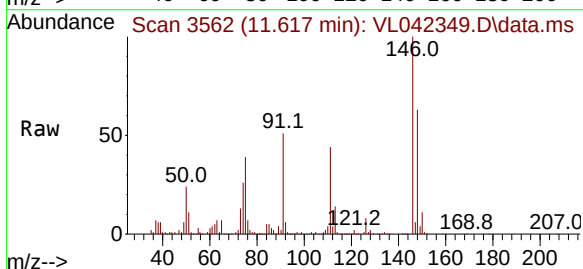
Tgt Ion: 91 Resp: 83269

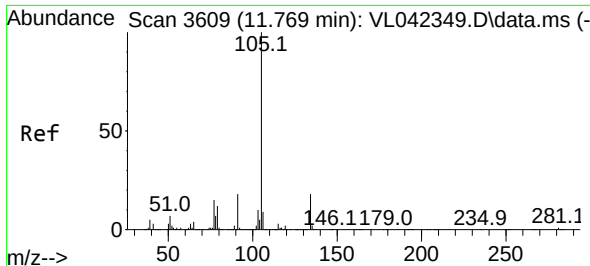
Ion Ratio Lower Upper

91 100

126 14.7 11.8 17.6

128 5.6 4.5 6.7

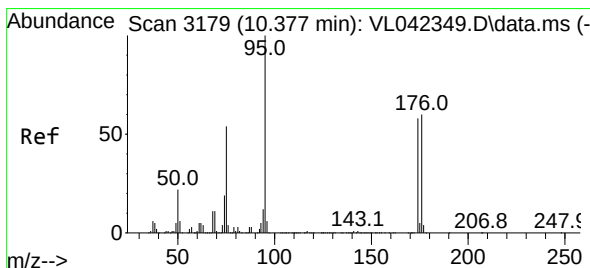
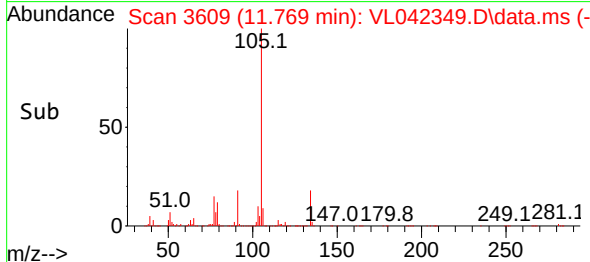
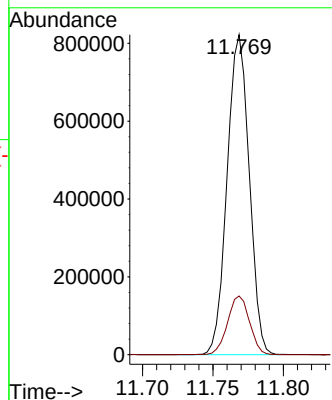
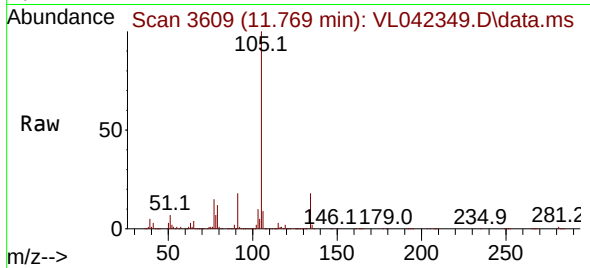




#67
 sec-Butylbenzene
 Concen: 8.824 ppbv
 RT: 11.769 min Scan# 3609
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44

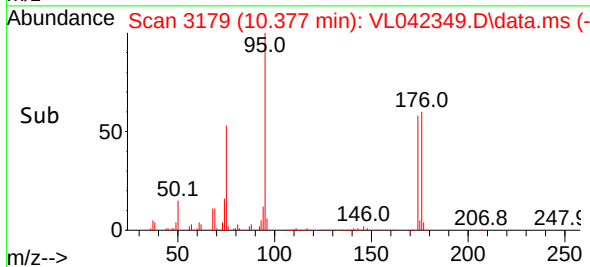
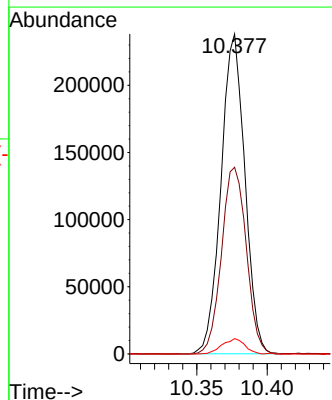
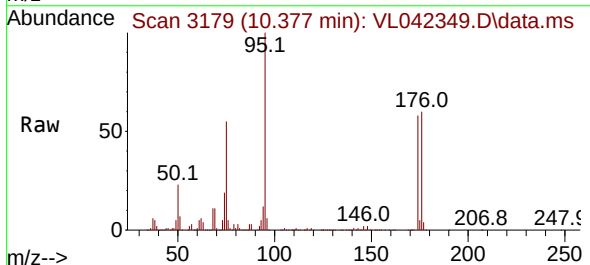
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

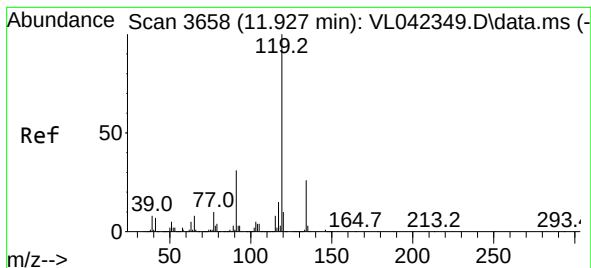
Tgt Ion:105 Resp: 900074
 Ion Ratio Lower Upper
 105 100
 134 18.2 14.6 21.8



#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_1

ClientSampleId :

VSTDICCC010

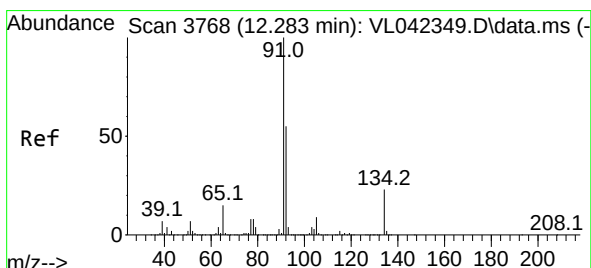
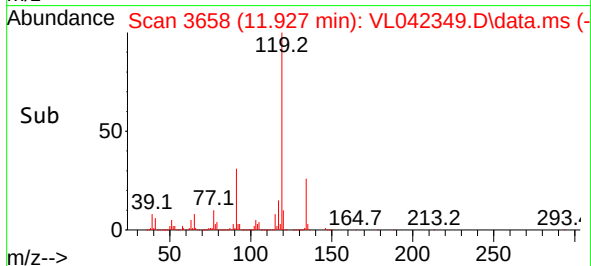
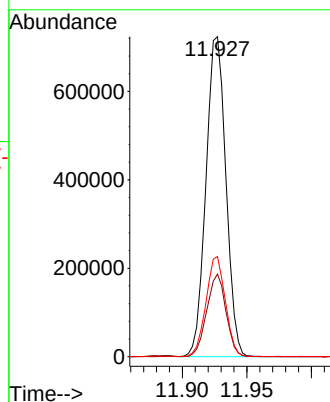
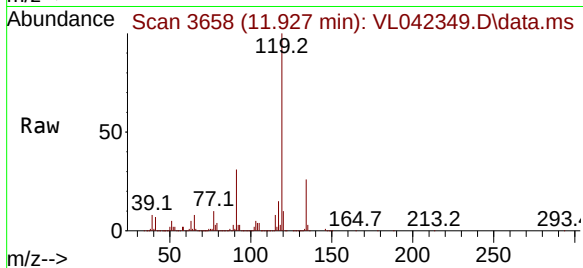
Tgt Ion:119 Resp: 778987

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

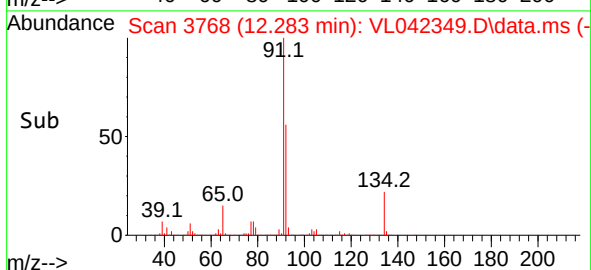
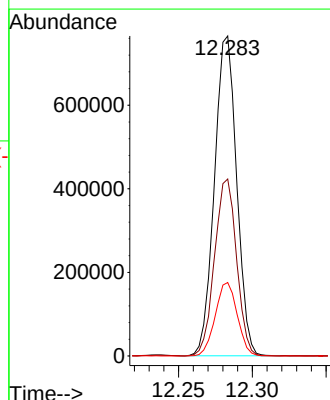
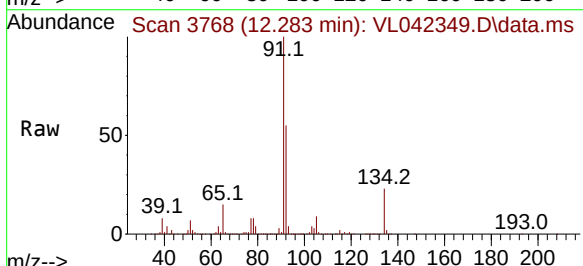
Tgt Ion: 91 Resp: 801364

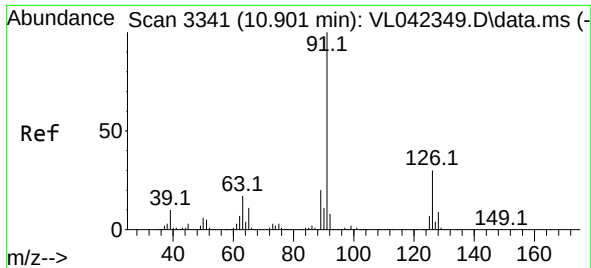
Ion Ratio Lower Upper

91 100

92 55.3 44.2 66.4

134 22.8 18.2 27.4

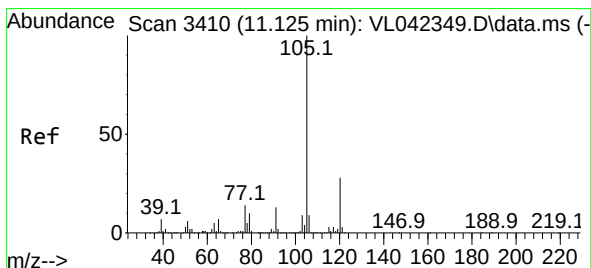
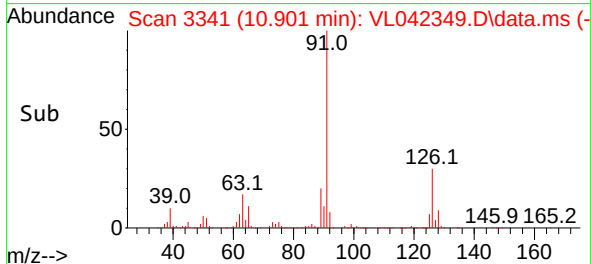
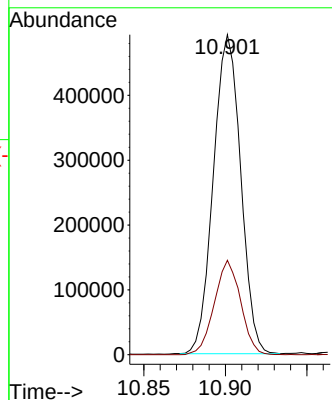
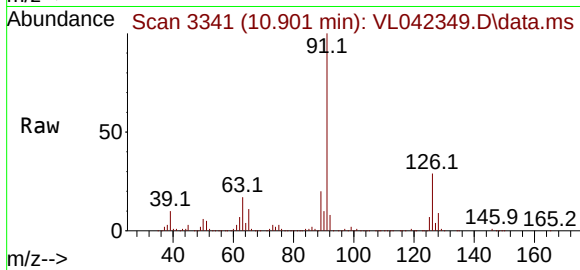




#71
2-Chlorotoluene
Concen: 9.157 ppbv
RT: 10.901 min Scan# 3341
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

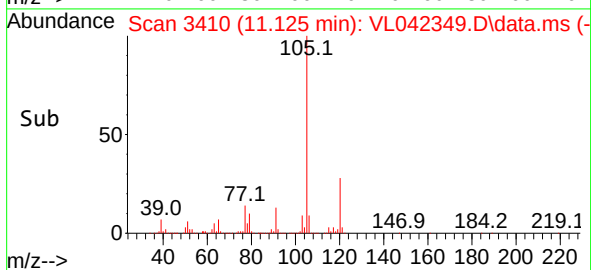
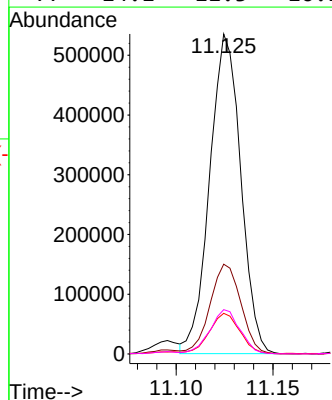
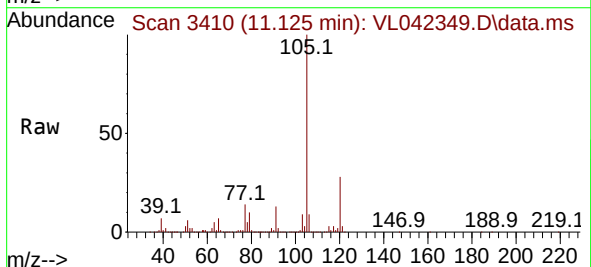
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

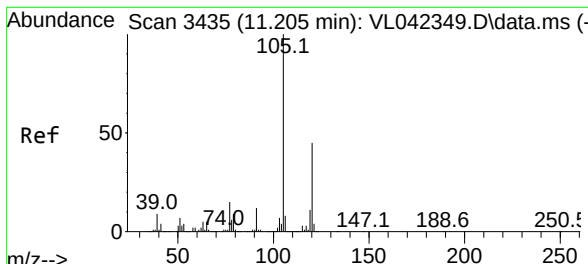
Tgt Ion: 91 Resp: 573039
Ion Ratio Lower Upper
91 100
126 28.4 11.4 45.4



#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



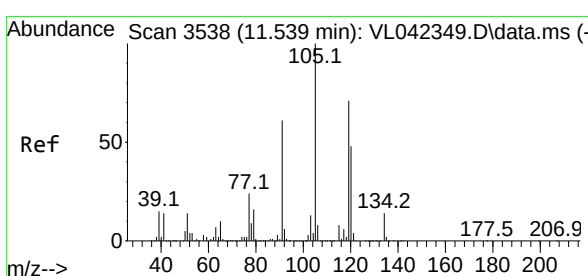
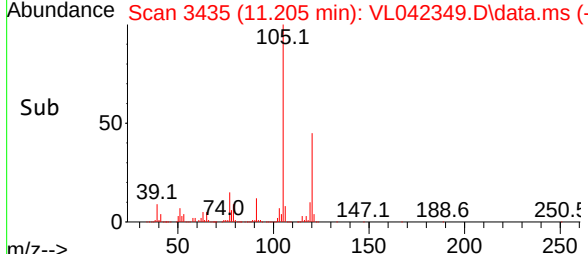
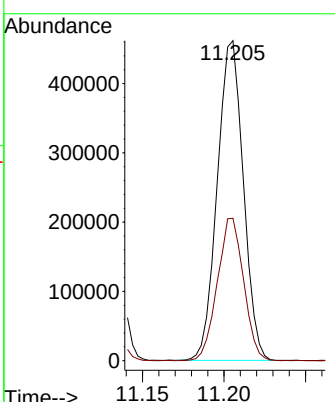
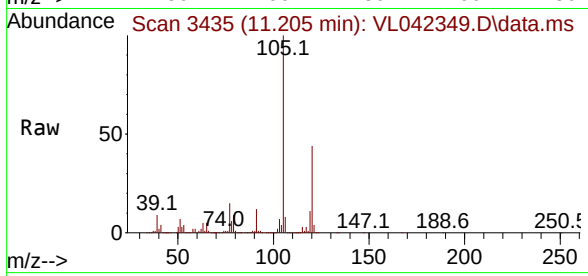


#73
 1,3,5-Trimethylbenzene
 Concen: 8.743 ppbv
 RT: 11.205 min Scan# 3435
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44

Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDICCC010

Tgt Ion:105 Resp: 512855

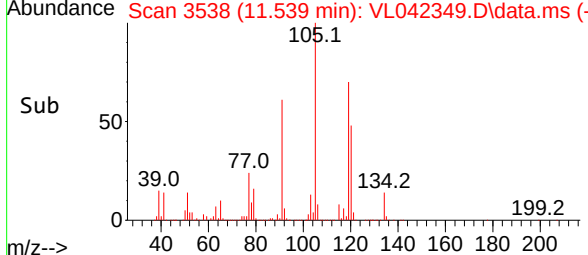
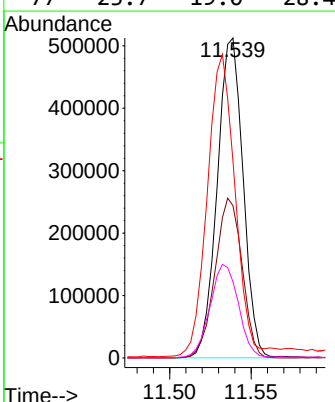
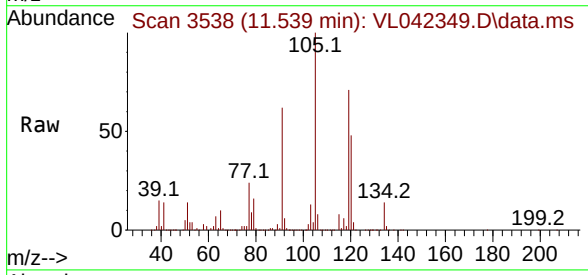
Ion	Ratio	Lower	Upper
105	100		
120	44.5	35.6	53.4

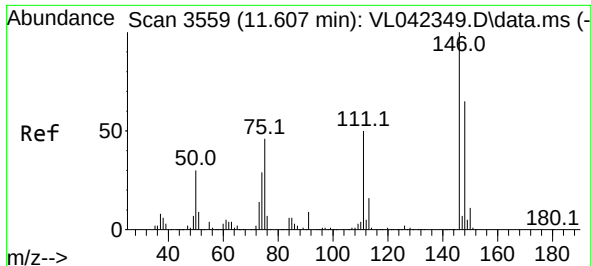


#74
 1,2,4-Trimethylbenzene
 Concen: 8.248 ppbv
 RT: 11.539 min Scan# 3538
 Delta R.T. 0.000 min
 Lab File: VL042349.D
 Acq: 17 Apr 2025 09:44

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

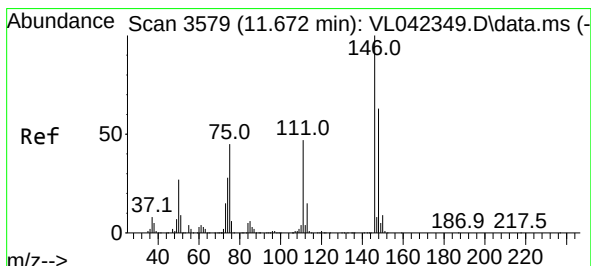
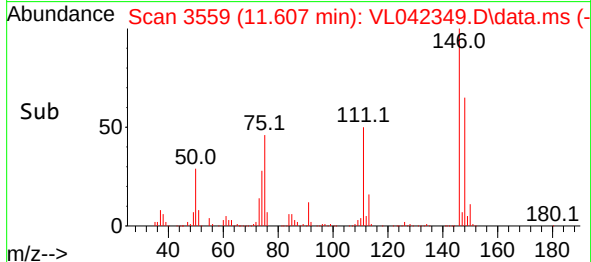
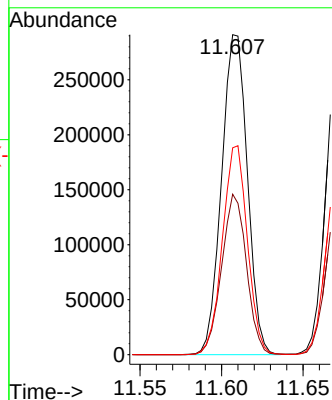
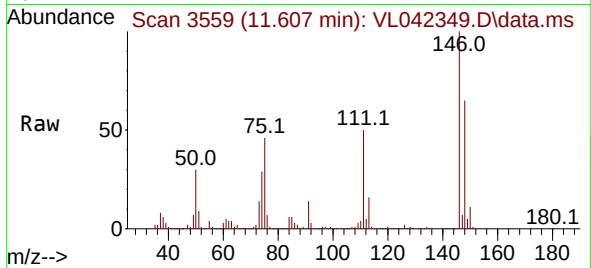




#75
1,3-Dichlorobenzene
Concen: 8.997 ppbv
RT: 11.607 min Scan# 3559
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

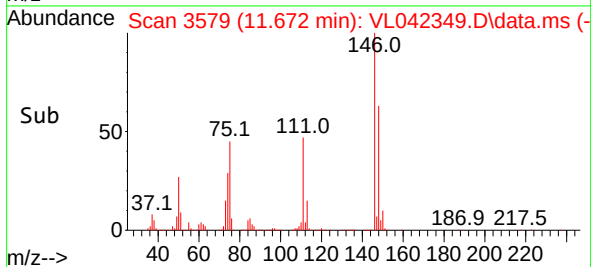
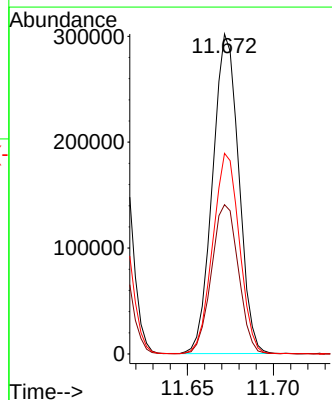
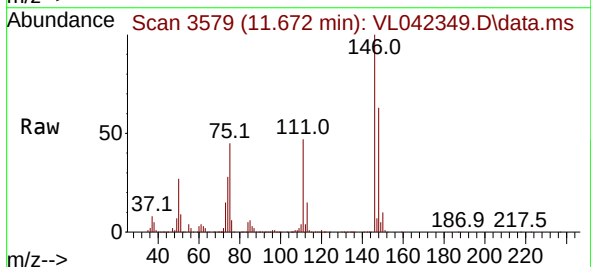
Instrument :
MSVOA_1
ClientSampleId :
VSTDICCC010

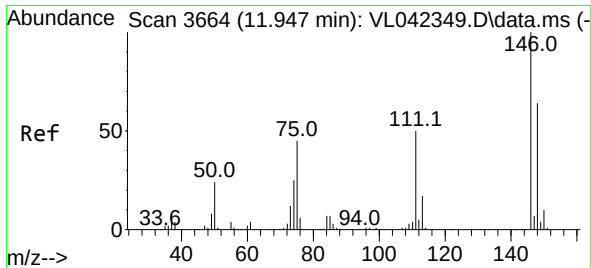
Tgt Ion:146 Resp: 320380
Ion Ratio Lower Upper
146 100
111 48.5 24.3 72.8
148 63.2 31.6 94.8



#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

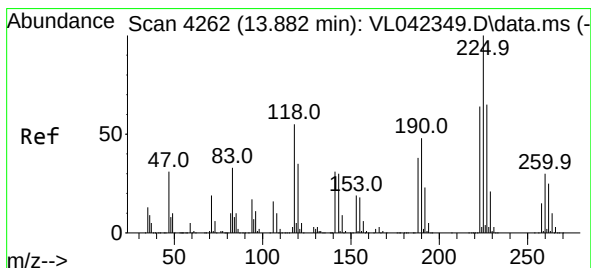
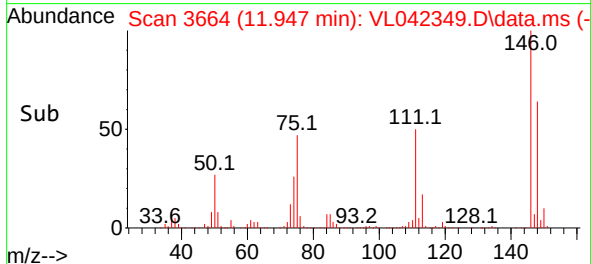
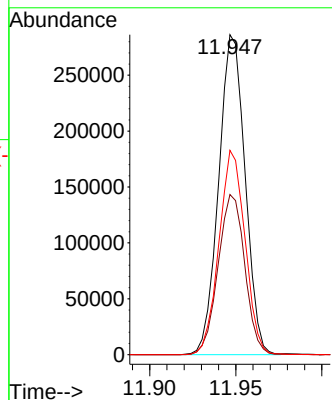
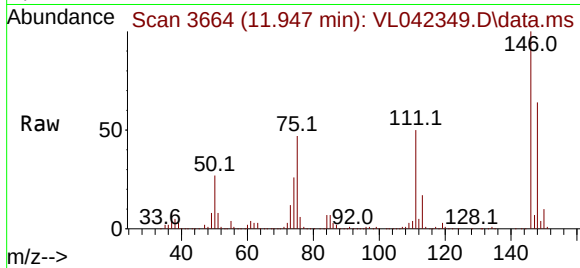




#77
1,2-Dichlorobenzene
Concen: 8.832 ppbv
RT: 11.947 min Scan# 3664
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

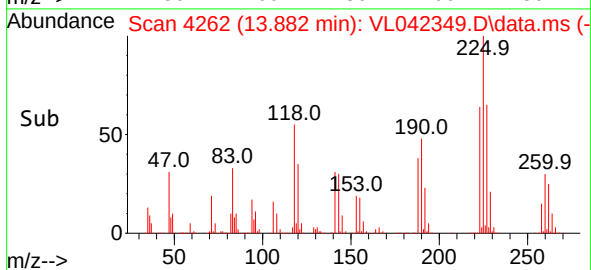
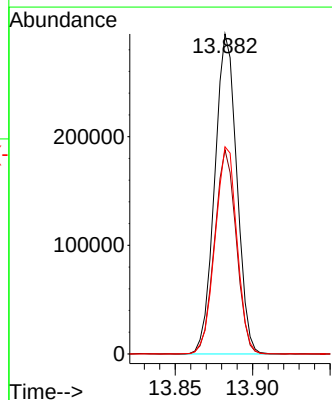
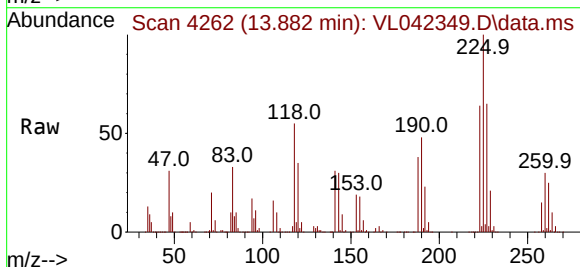
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

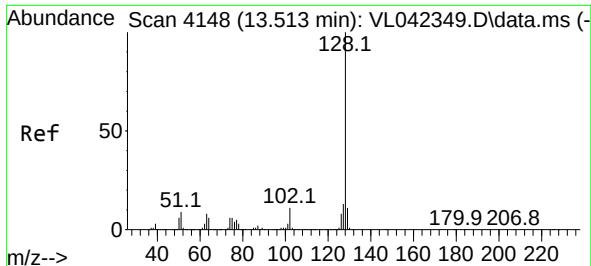
Tgt Ion:146 Resp: 305822
Ion Ratio Lower Upper
146 100
111 50.6 25.3 75.9
148 63.0 31.5 94.5



#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

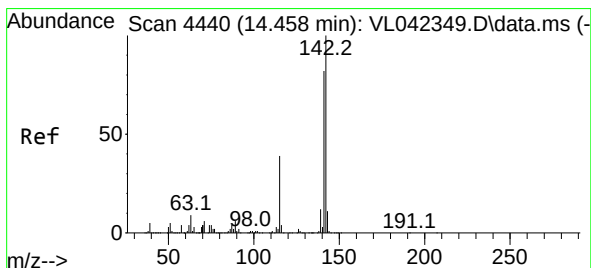
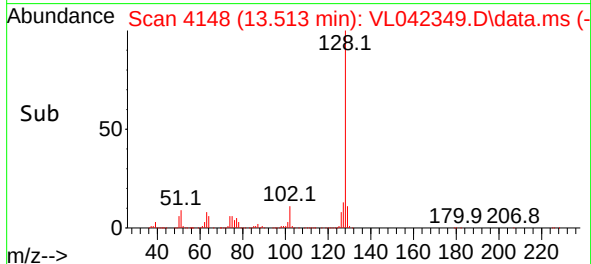
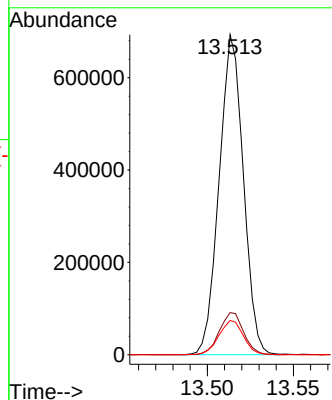
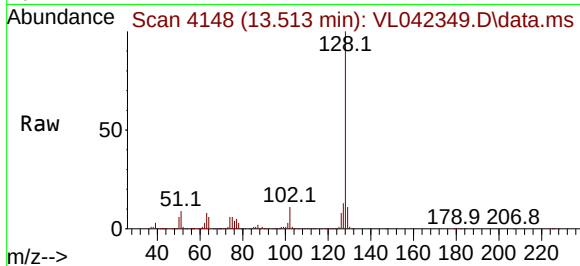




#79
Naphthalene
Concen: 8.271 ppbv
RT: 13.513 min Scan# 4148
Delta R.T. 0.000 min
Lab File: VL042349.D
Acq: 17 Apr 2025 09:44

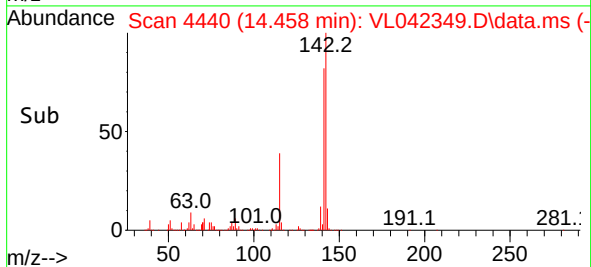
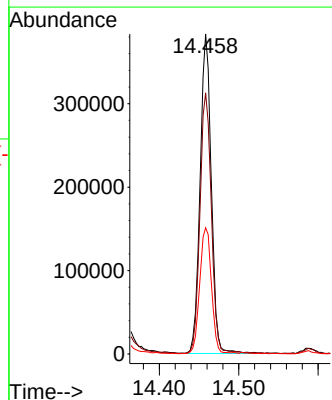
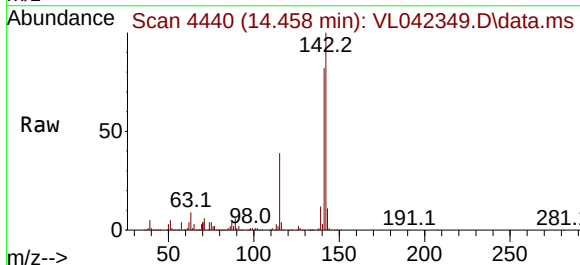
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

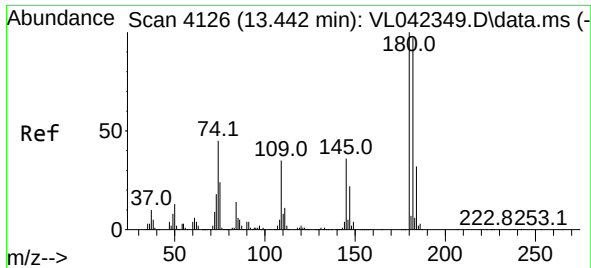
Tgt Ion:128 Resp: 677578
Ion Ratio Lower Upper
128 100
127 13.2 10.6 15.8
129 10.7 8.6 12.8



#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

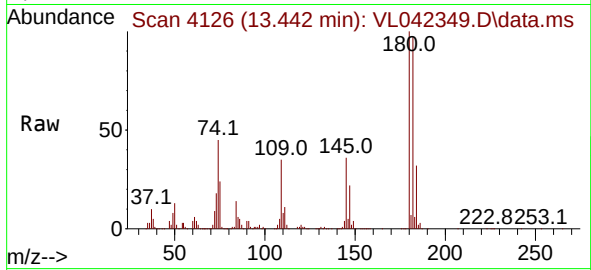
Acq: 17 Apr 2025 09:44

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010



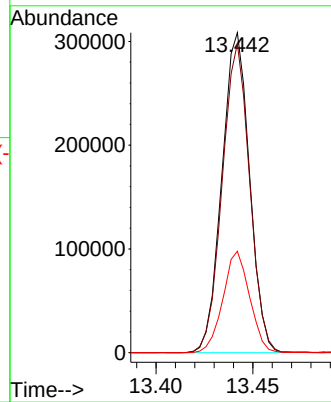
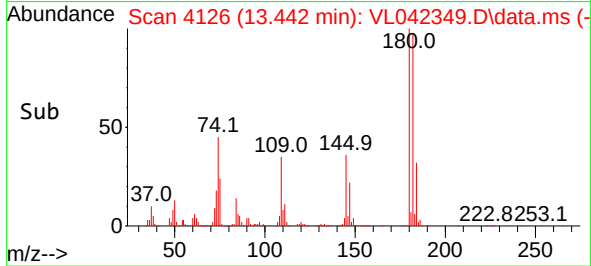
Tgt Ion:180 Resp: 306119

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

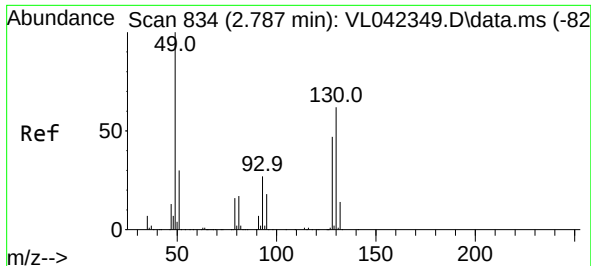
Quant Time: Apr 18 01:26:23 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 01:24:29 2025
 Response via : Initial Calibration

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

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

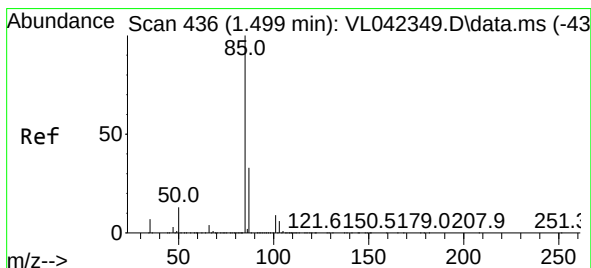
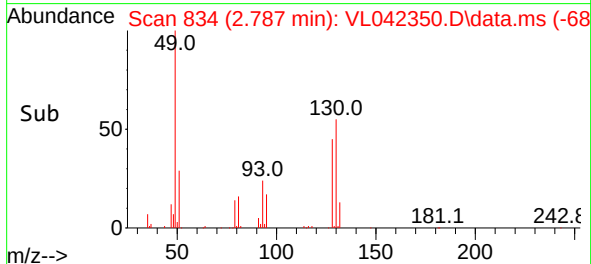
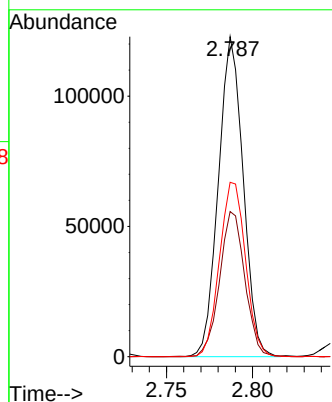
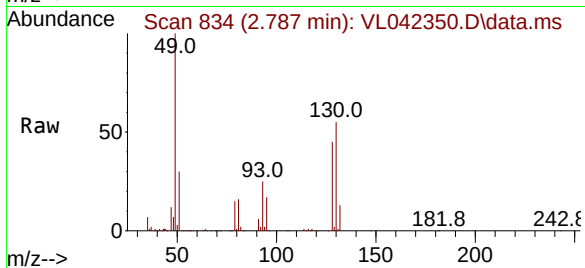
[illegible]



#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

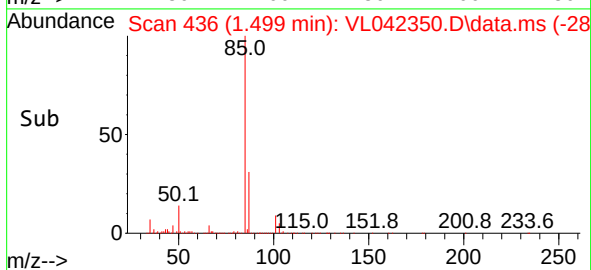
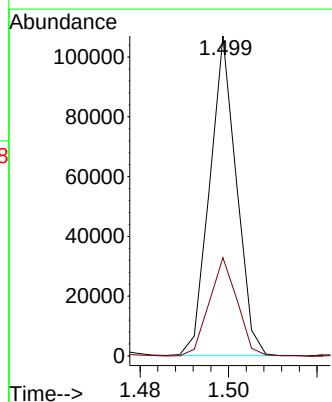
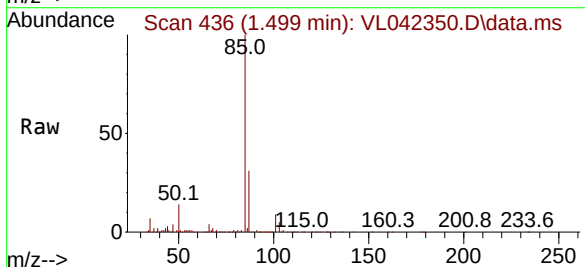
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

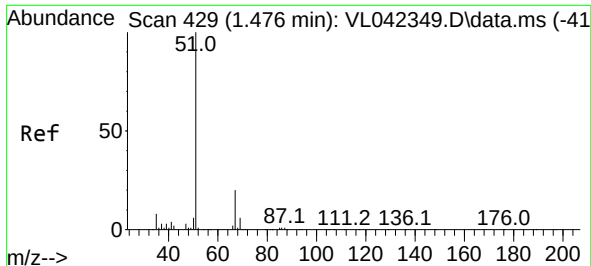
Tgt Ion: 49 Resp: 123206
Ion Ratio Lower Upper
49 100
128 46.2 22.8 68.4
130 57.3 29.3 88.0



#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

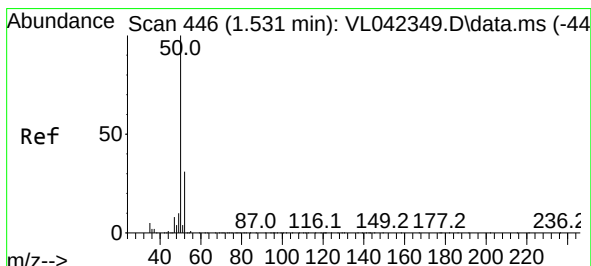
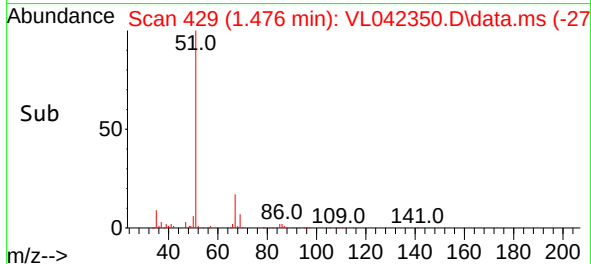
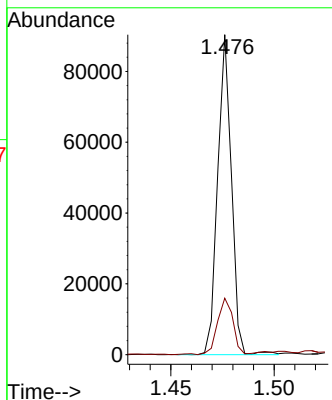
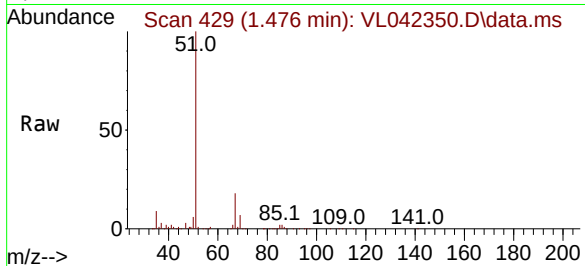




#3
Chlorodifluoromethane
Concen: 2.019 ppbv
RT: 1.476 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

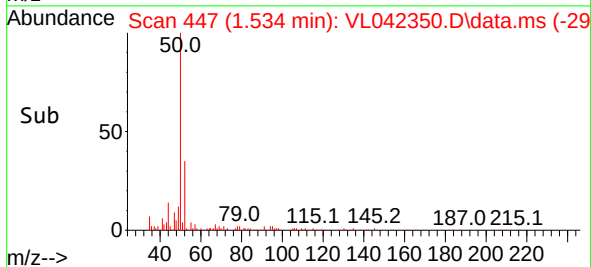
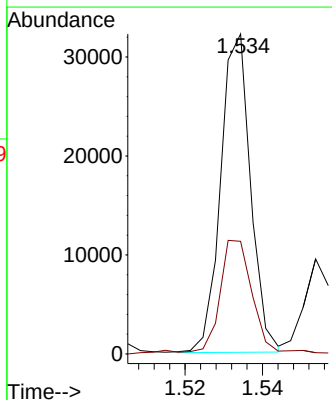
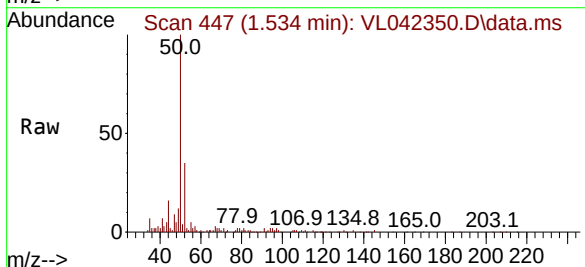
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

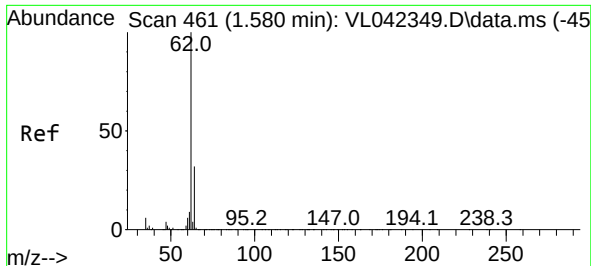
Tgt Ion: 51 Resp: 41853
Ion Ratio Lower Upper
51 100
67 21.7 16.2 24.4



#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

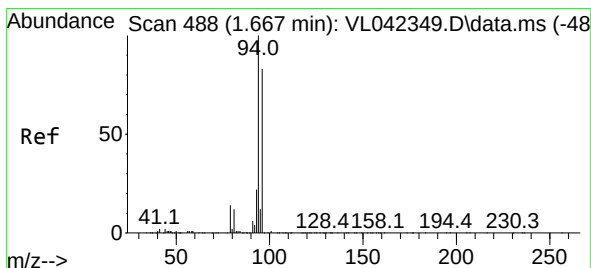
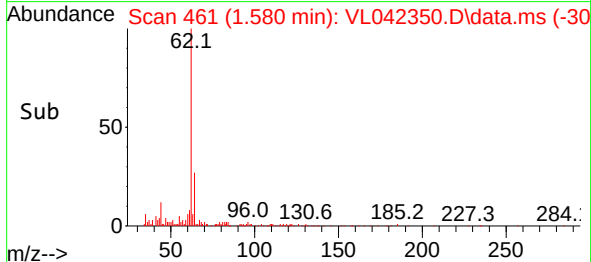
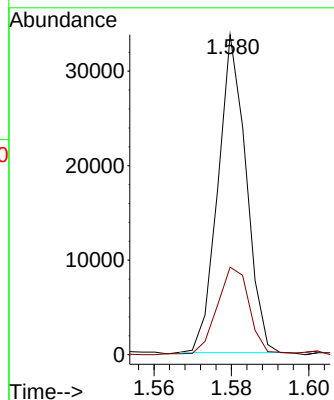
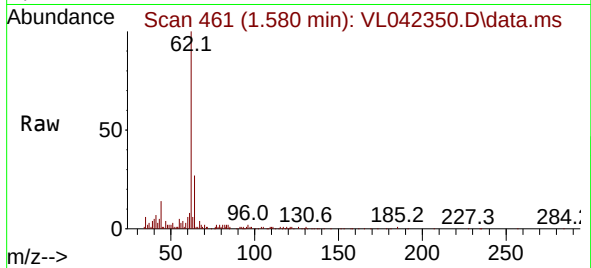




#5
 Vinyl Chloride
 Concen: 1.811 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. -0.000 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

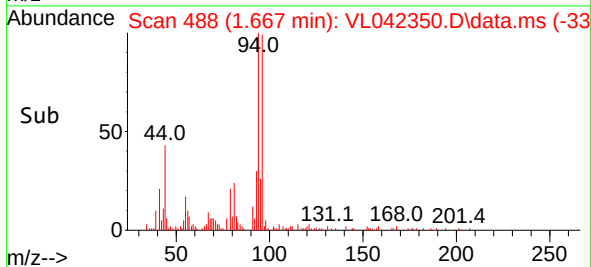
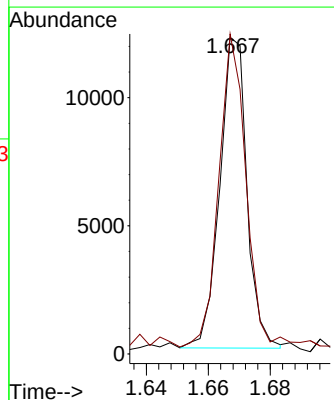
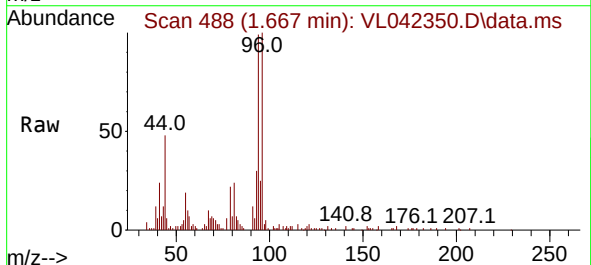
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002

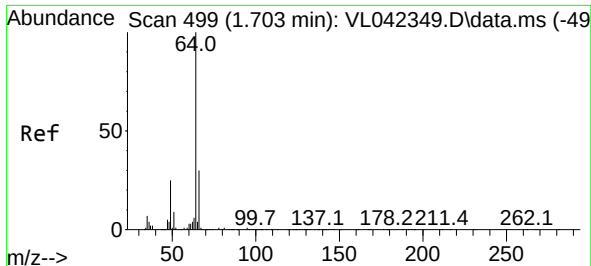
Tgt Ion: 62 Resp: 16979
 Ion Ratio Lower Upper
 62 100
 64 27.2 25.4 38.0



#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#

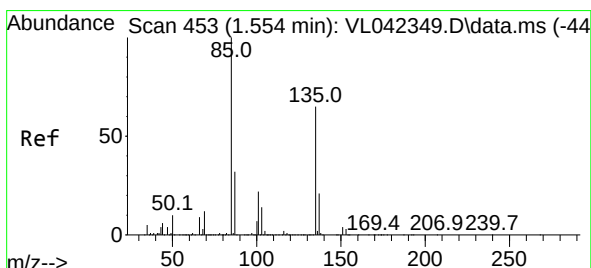
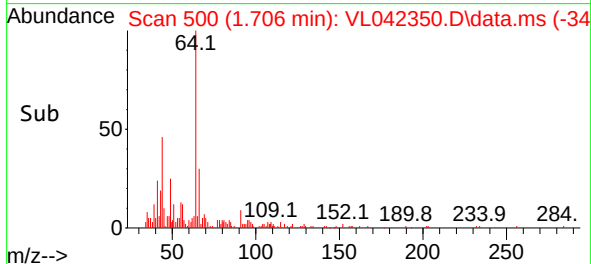
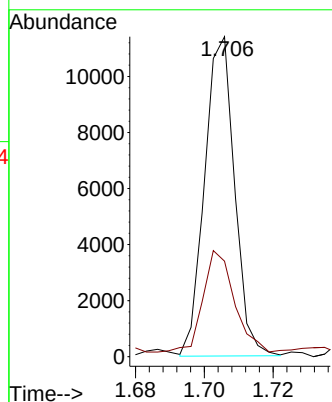
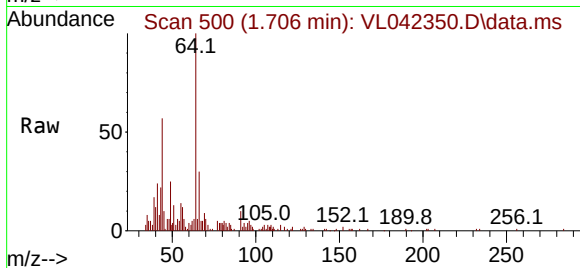




#7
Chloroethane
Concen: 2.031 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

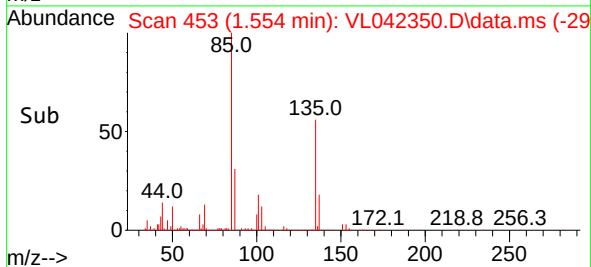
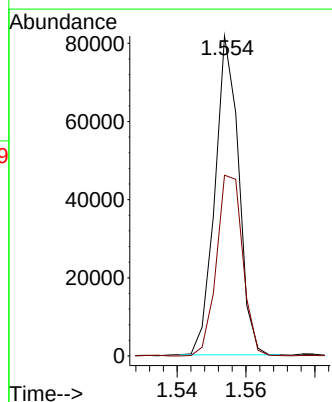
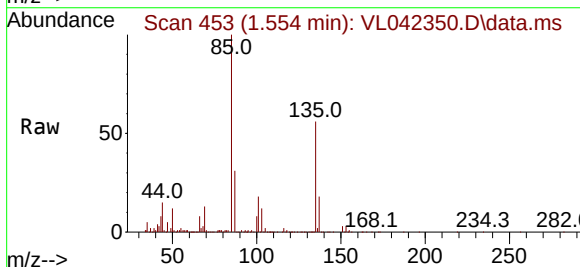
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

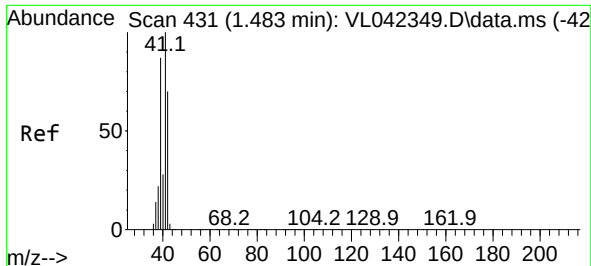
Tgt Ion: 64 Resp: 6889
Ion Ratio Lower Upper
64 100
66 29.8 24.6 37.0



#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 :

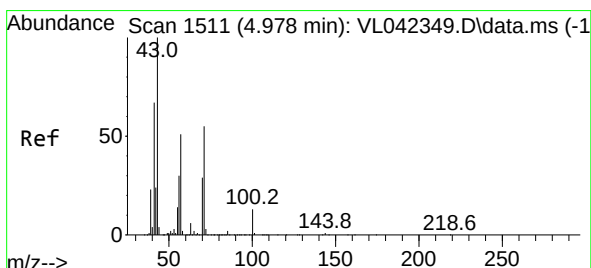
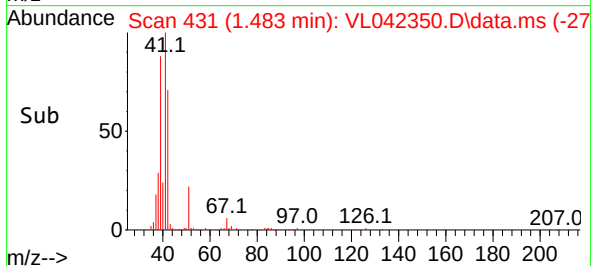
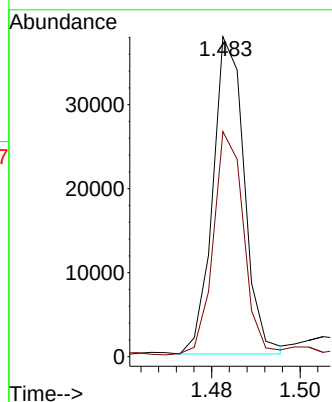
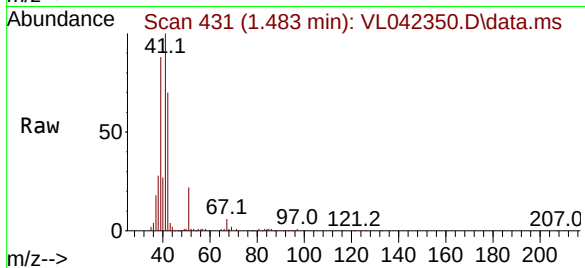
VSTDIC002

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

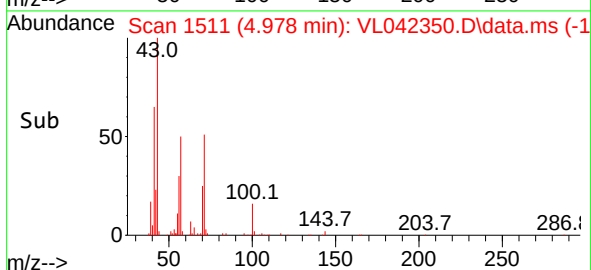
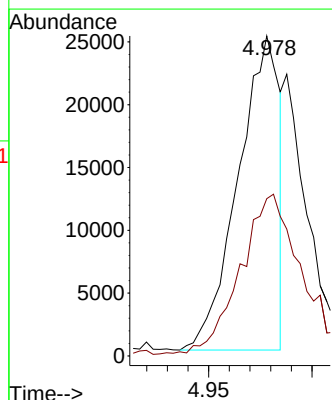
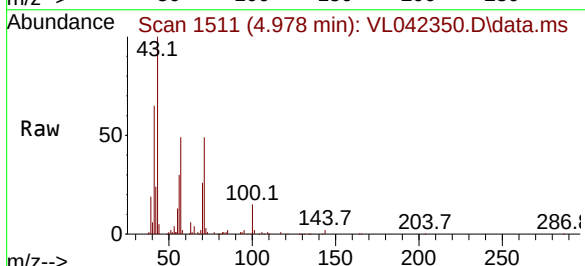
Acq: 17 Apr 2025 10:17

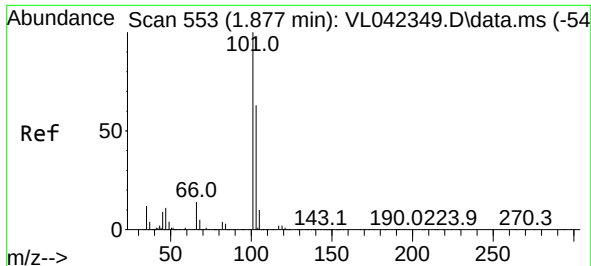
Tgt Ion: 43 Resp: 34658

Ion Ratio Lower Upper

43 100

57 75.9 39.9 59.9#

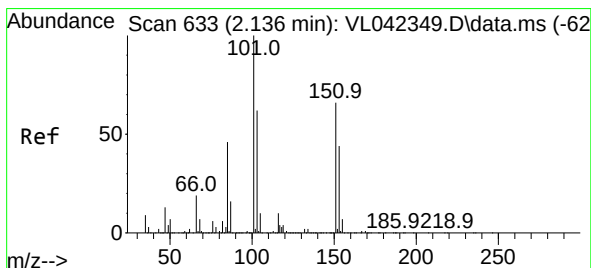
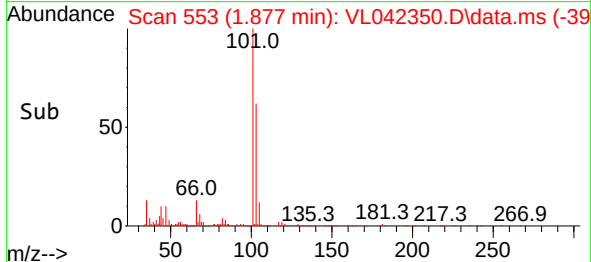
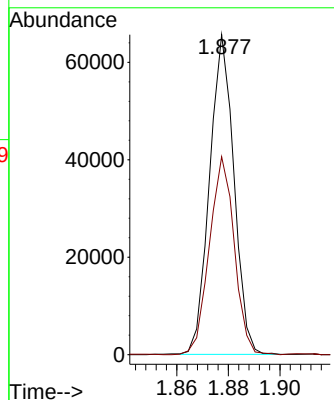
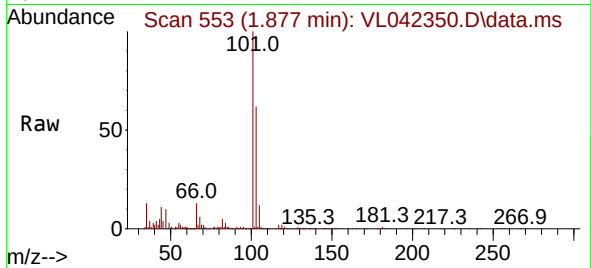




#11
 Trichlorofluoromethane
 Concen: 2.079 ppbv
 RT: 1.877 min Scan# 553
 Delta R.T. -0.000 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

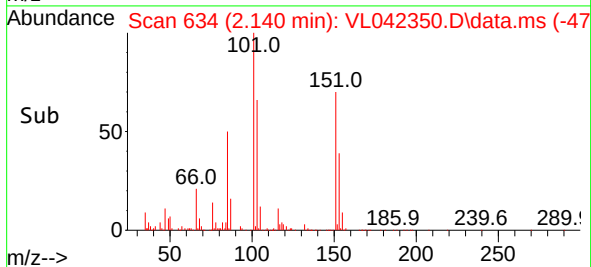
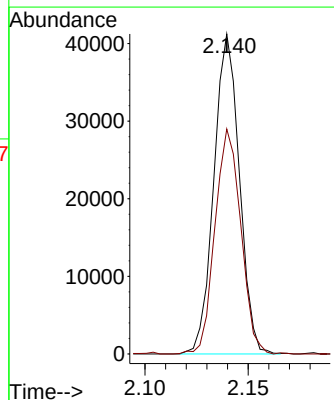
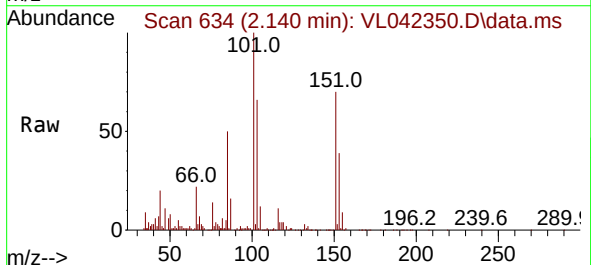
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

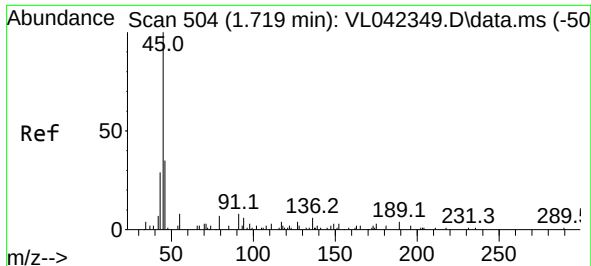
Tgt Ion:101 Resp: 43035
 Ion Ratio Lower Upper
 101 100
 103 61.9 50.1 75.1



#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_L

ClientSampleId :

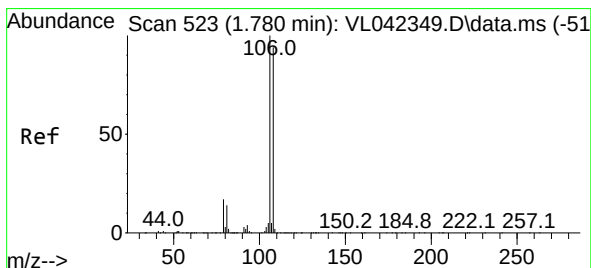
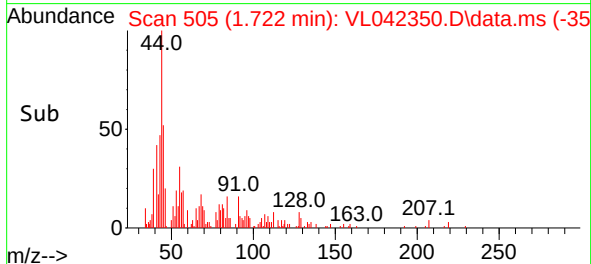
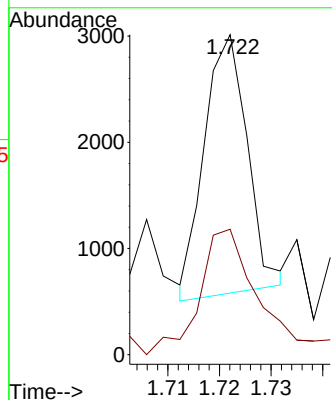
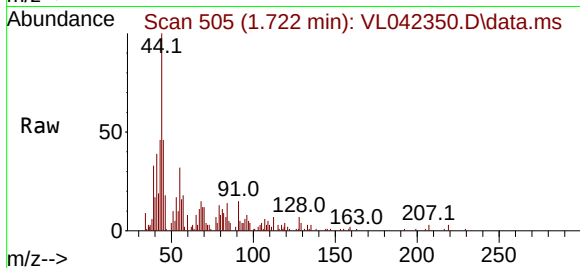
VSTDIC002

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

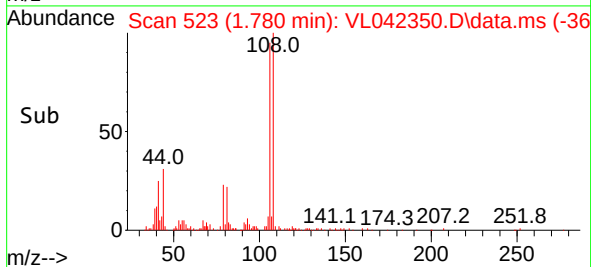
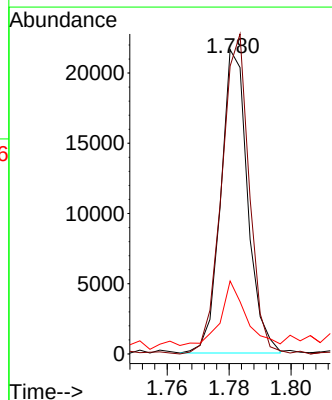
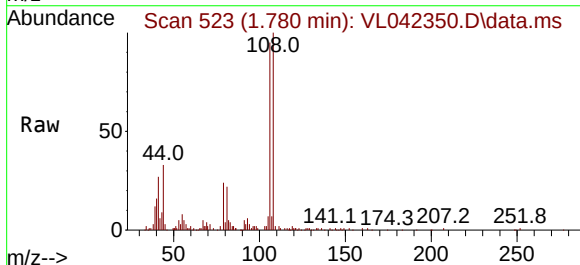
Tgt Ion:108 Resp: 13049

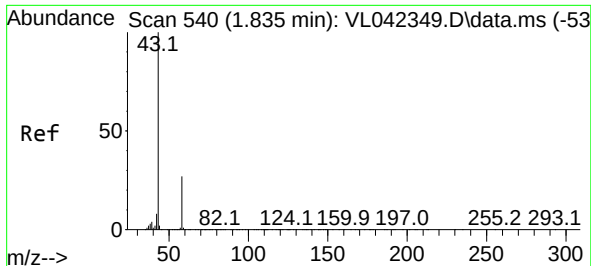
Ion Ratio Lower Upper

108 100

106 110.2 85.9 128.9

79 34.0 13.9 20.9#

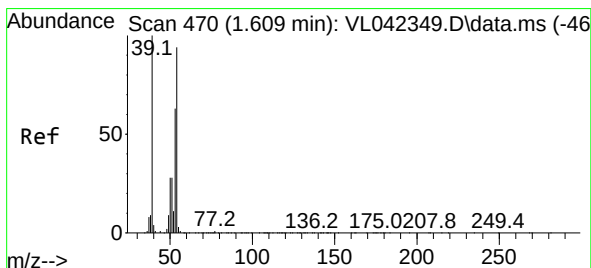
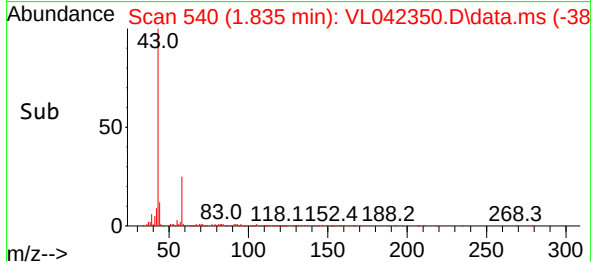
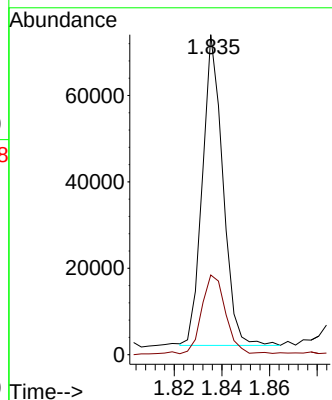
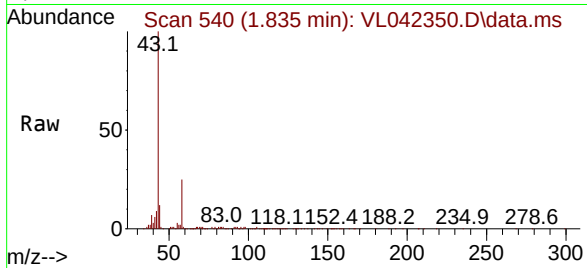




#15
Acetone
Concen: 2.129 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

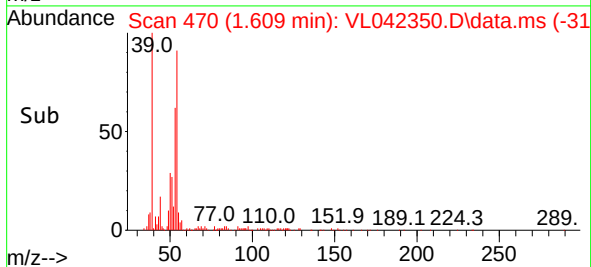
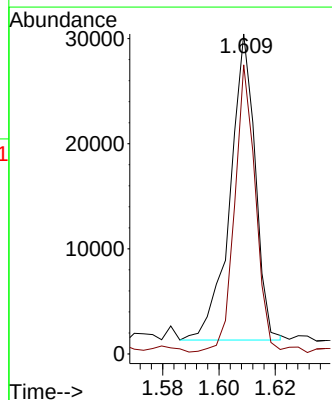
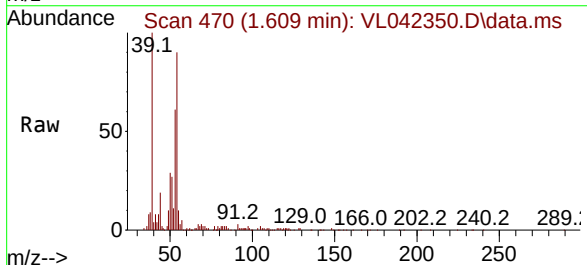
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

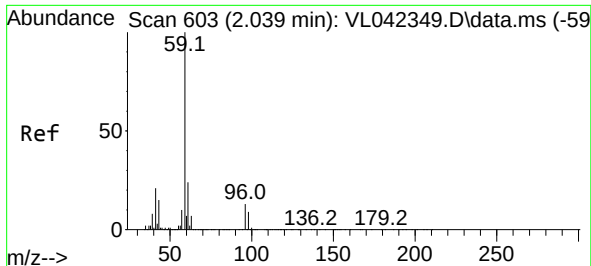
Tgt Ion: 43 Resp: 42949
Ion Ratio Lower Upper
43 100
58 31.4 22.4 33.6



#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 :

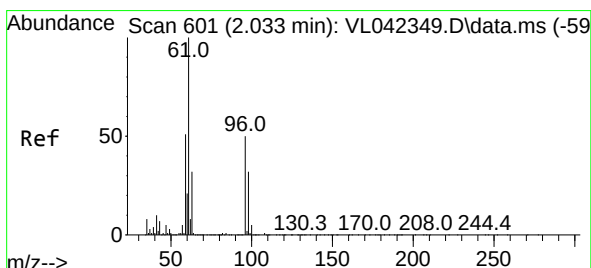
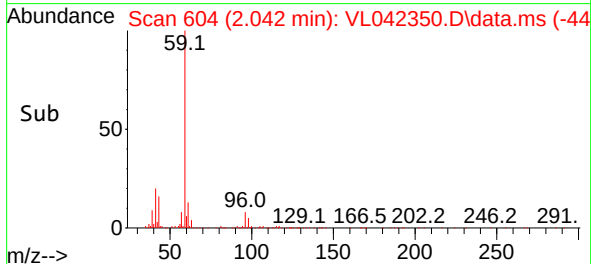
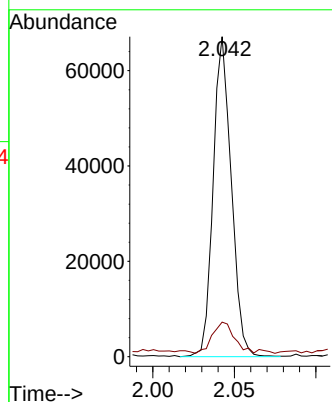
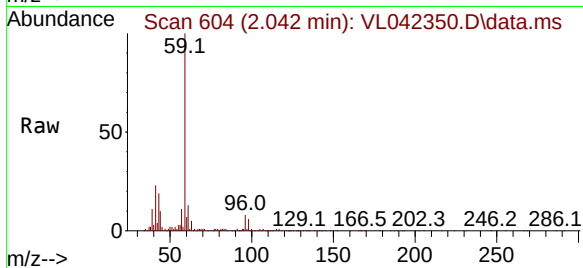
VSTDIC002

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

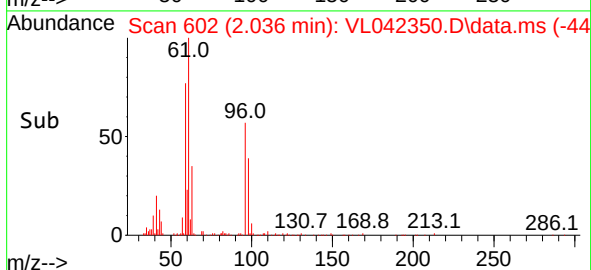
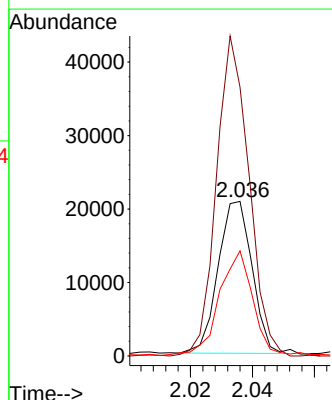
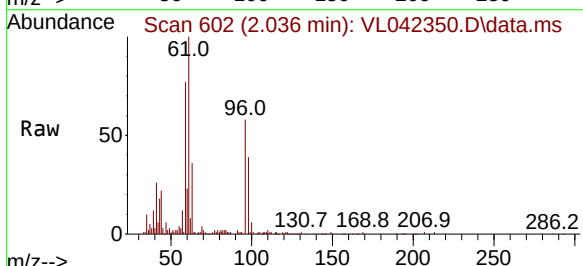
Tgt Ion: 96 Resp: 15690

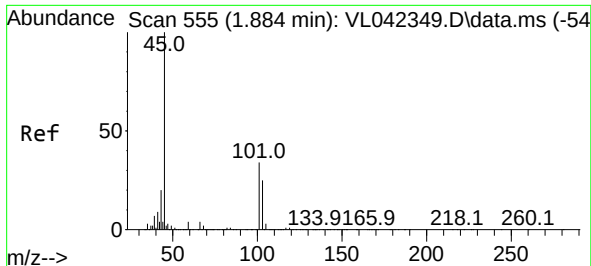
Ion Ratio Lower Upper

96 100

61 176.1 160.2 240.2

98 67.2 51.0 76.4

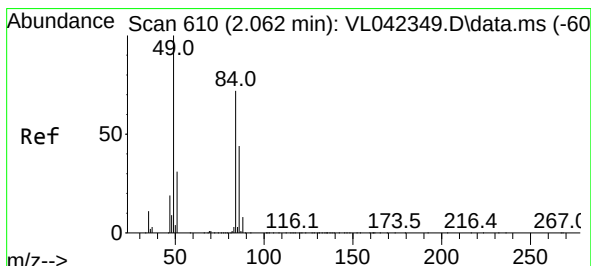
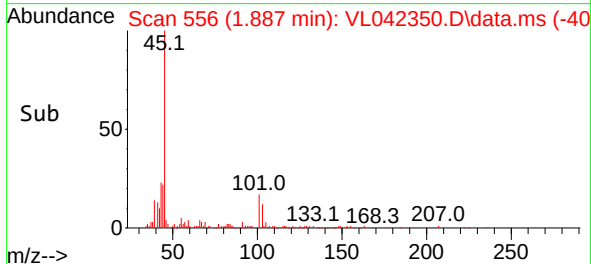
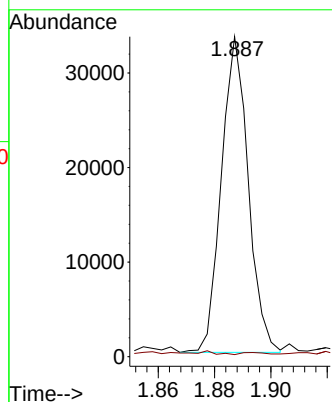
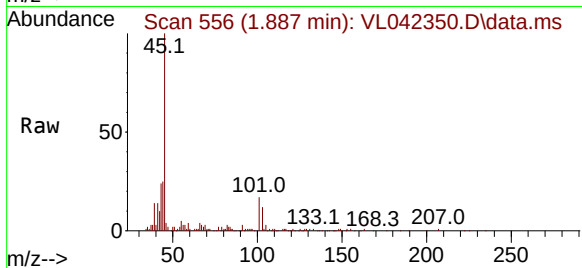




#19
Isopropyl Alcohol
Concen: 1.973 ppbv
RT: 1.887 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

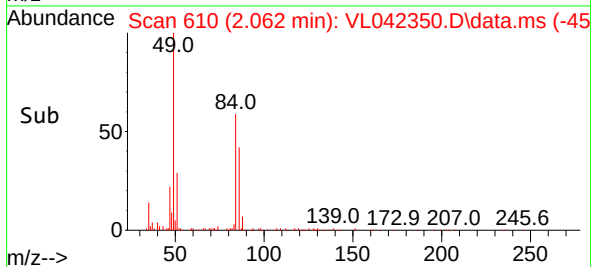
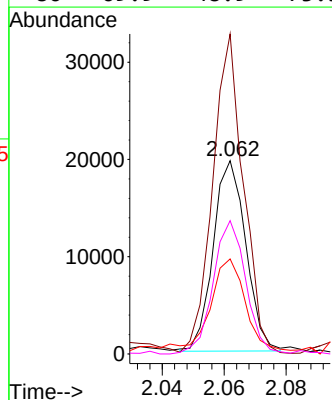
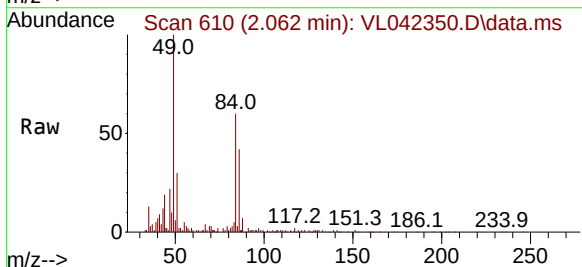
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

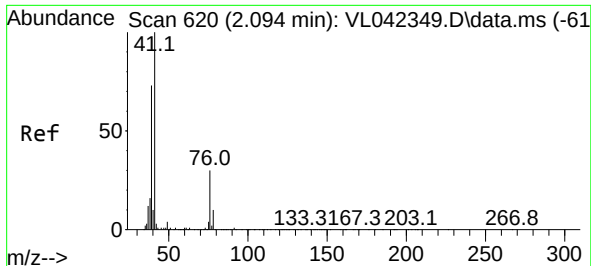
Tgt Ion: 45 Resp: 22106
Ion Ratio Lower Upper
45 100
58 3.6 34.5 51.7#



#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

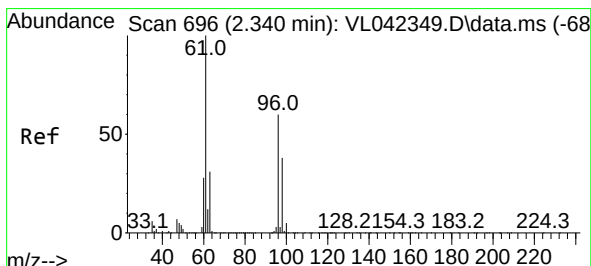
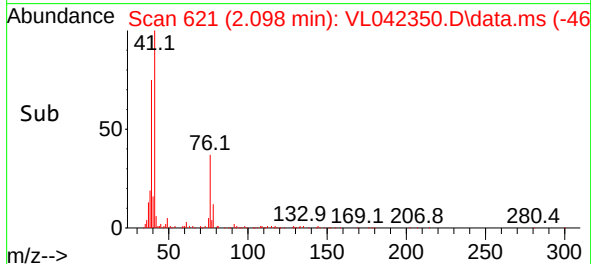
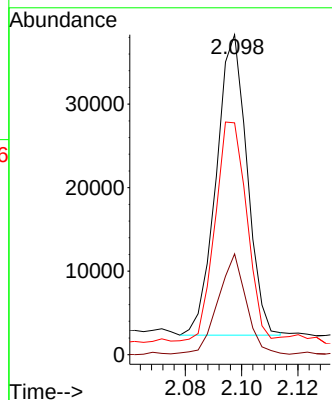
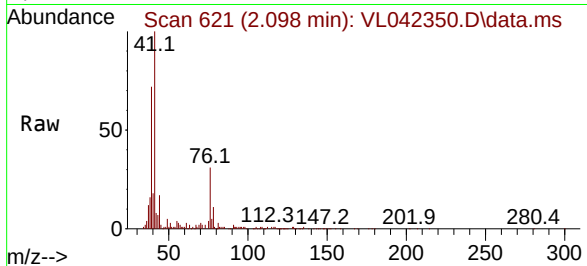




#21
 Allyl Chloride
 Concen: 1.963 ppbv
 RT: 2.098 min Scan# 61
 Delta R.T. 0.003 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

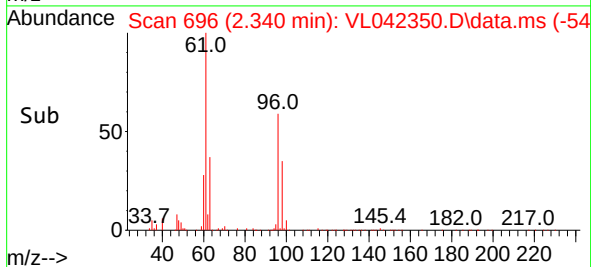
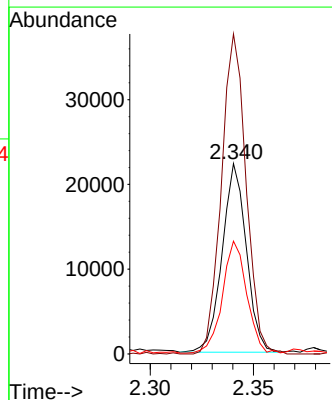
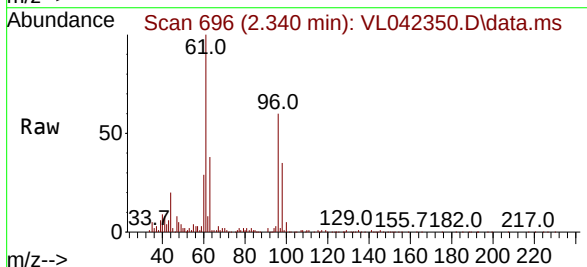
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

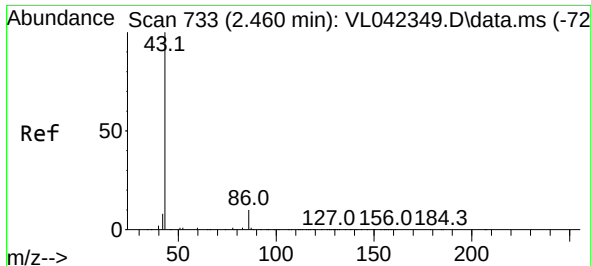
Tgt Ion: 41 Resp: 27340
 Ion Ratio Lower Upper
 41 100
 76 31.9 24.8 37.2
 39 81.2 60.6 90.8



#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

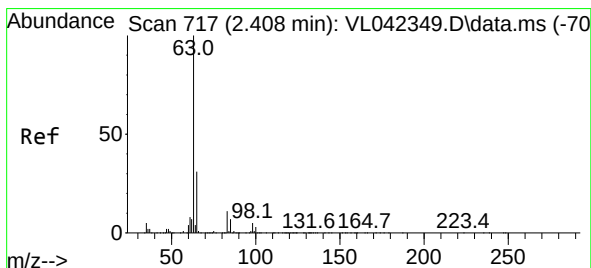
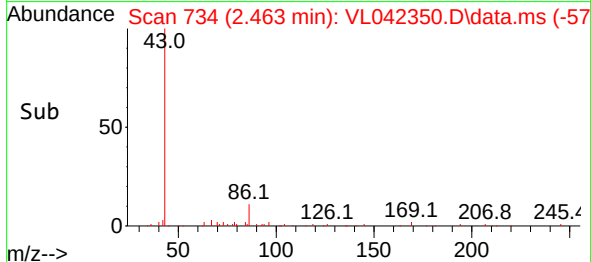
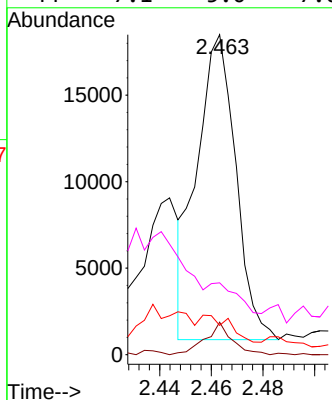
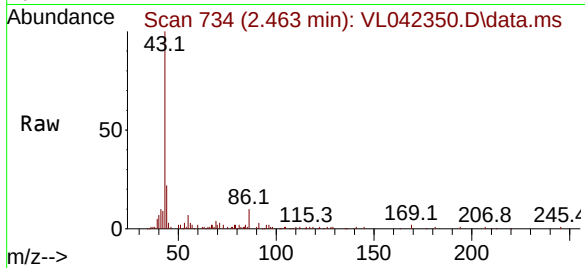




#23
 Vinyl Acetate
 Concen: 2.260 ppbv
 RT: 2.463 min Scan# 718
 Delta R.T. 0.003 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

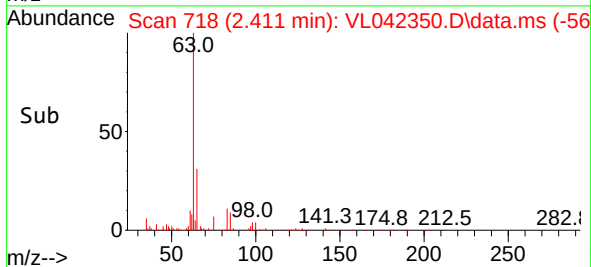
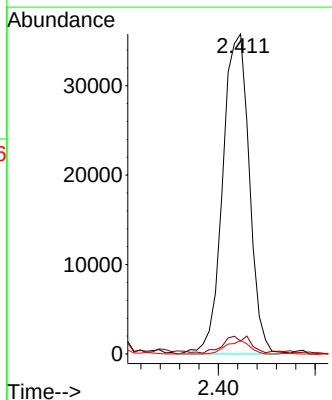
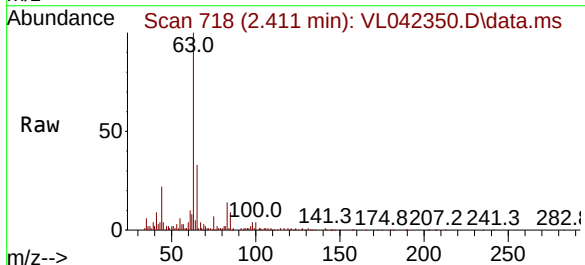
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002

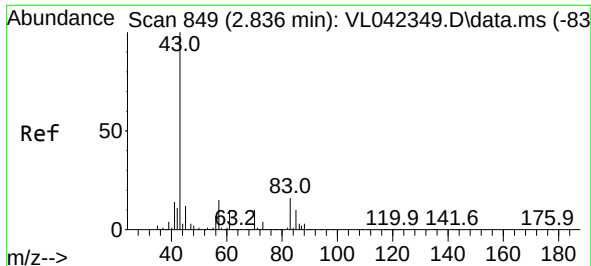
Tgt Ion:	43	Resp:	18454
Ion	Ratio	Lower	Upper
43	100		
86	10.2	6.5	9.7#
42	3.7	7.8	11.8#
44	7.1	5.0	7.6



#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



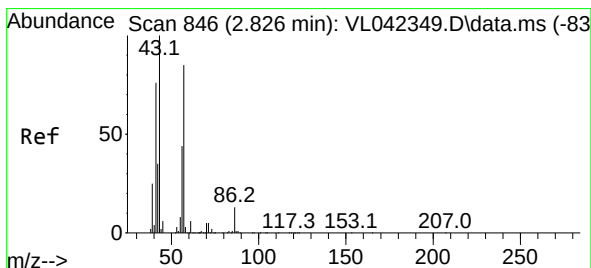
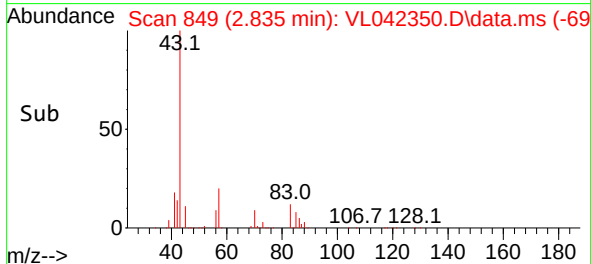
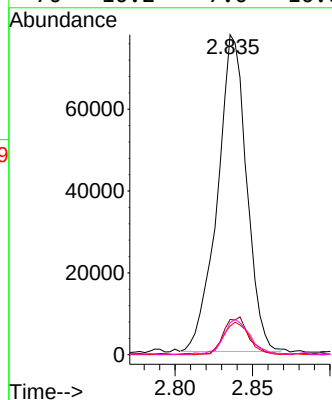
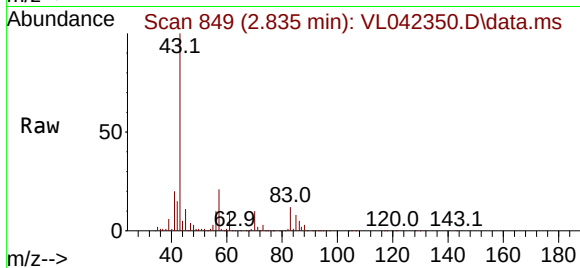


#25
Ethyl Acetate
Concen: 2.040 ppbv
RT: 2.835 min Scan# 849
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

Instrument :
MSVOA_1
ClientSampleId :
VSTDICC002

Tgt Ion: 43 Resp: 101467

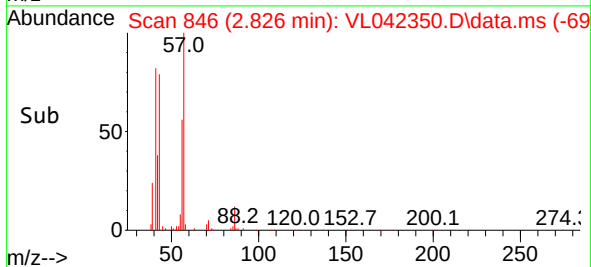
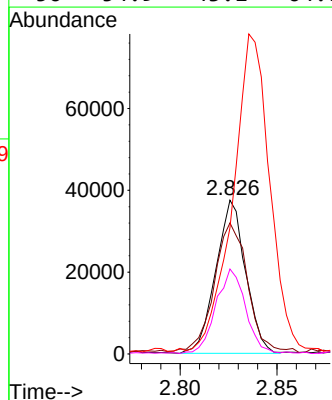
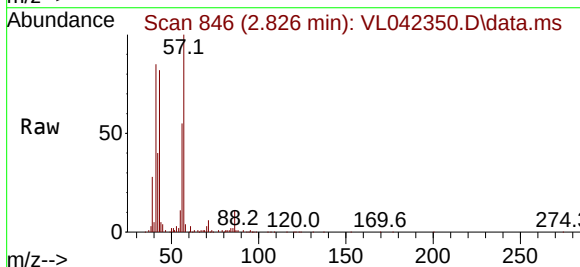
Ion	Ratio	Lower	Upper
43	100		
45	10.4	8.3	12.5
61	9.2	7.3	10.9
70	10.2	7.0	10.6

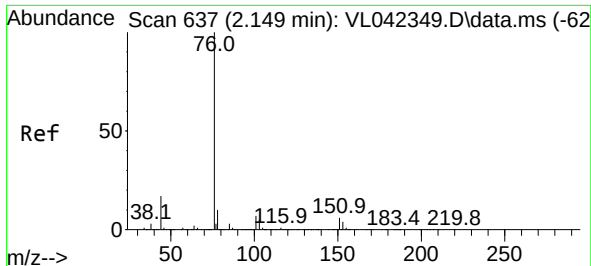


#26
Hexane
Concen: 1.990 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

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

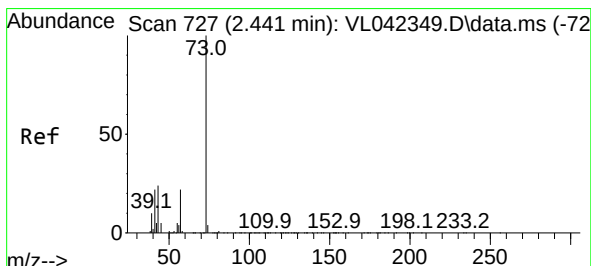
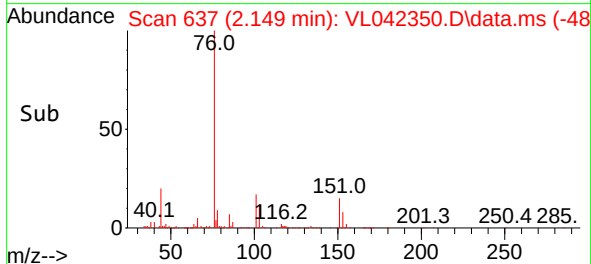
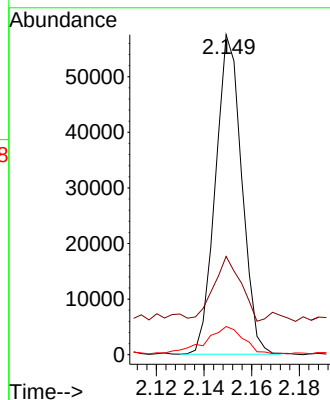
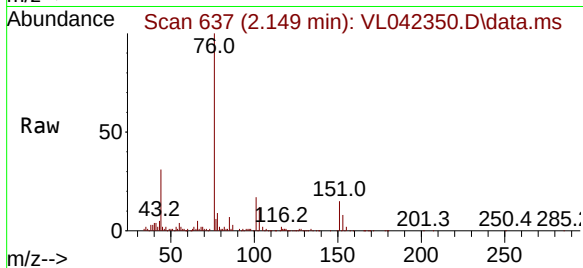




#27
Carbon Disulfide
Concen: 2.041 ppbv
RT: 2.149 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

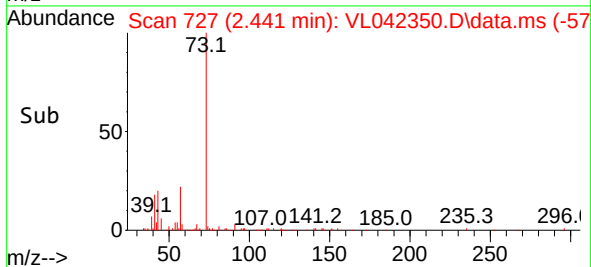
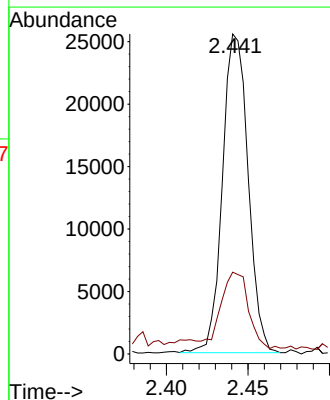
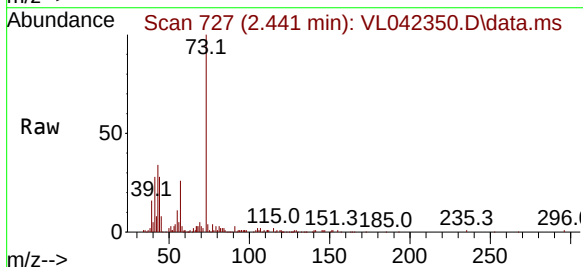
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

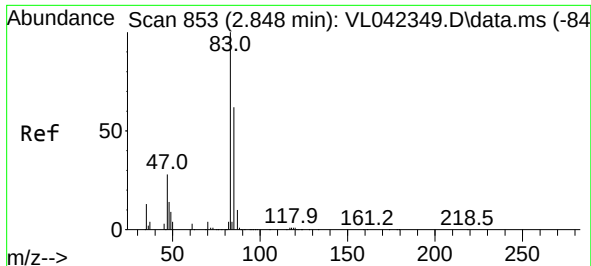
Tgt Ion: 76 Resp: 43975
Ion Ratio Lower Upper
76 100
44 44.3 15.5 23.3#
78 13.6 9.3 13.9



#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 :

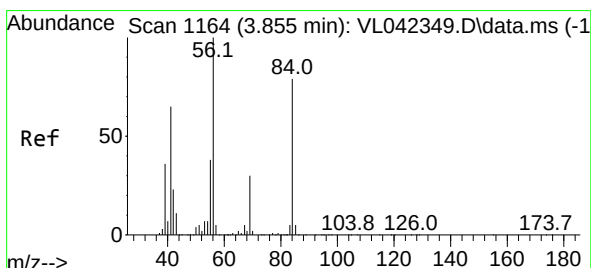
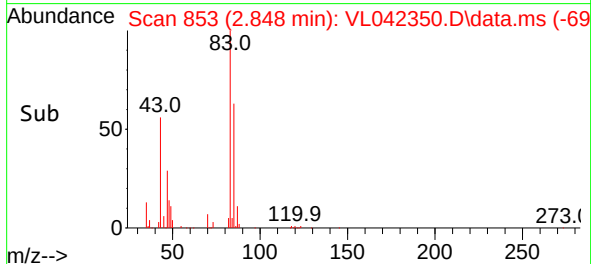
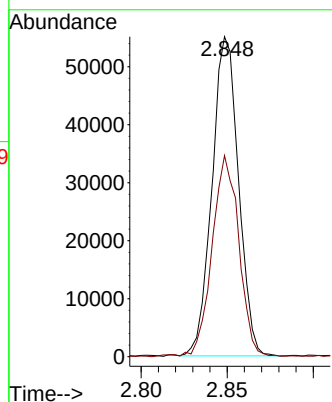
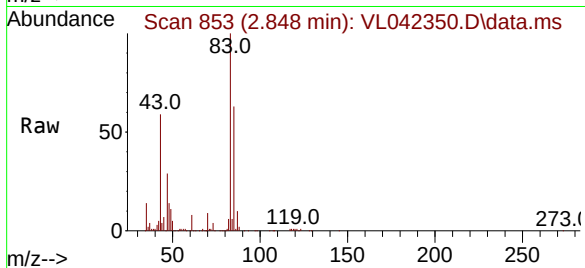
VSTDICC002

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

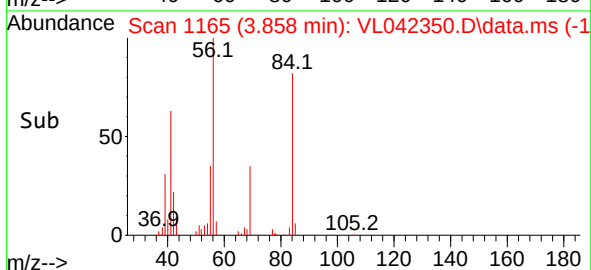
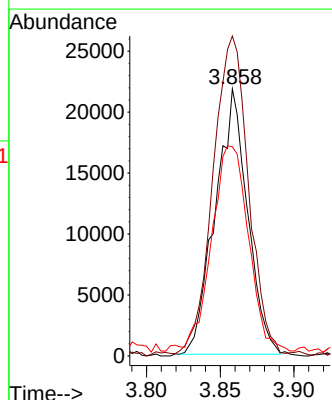
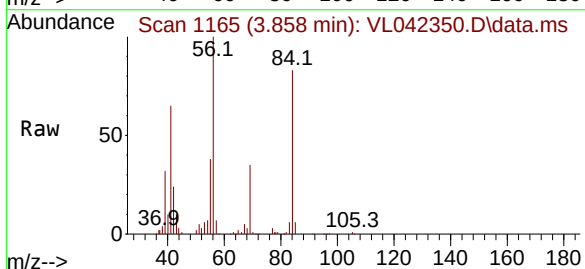
Tgt Ion: 84 Resp: 33195

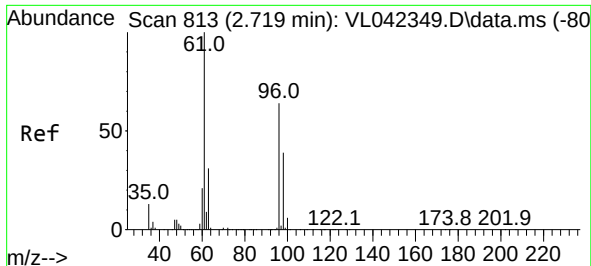
Ion Ratio Lower Upper

84 100

56 134.5 101.0 151.4

41 88.1 67.4 101.0

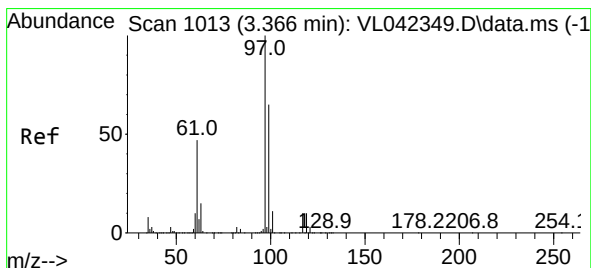
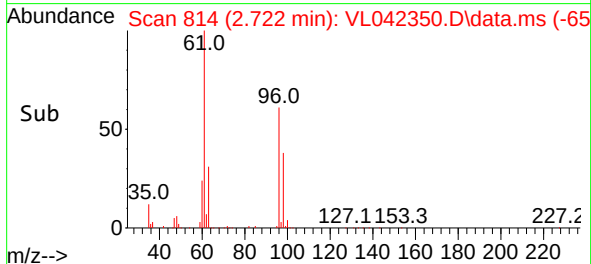
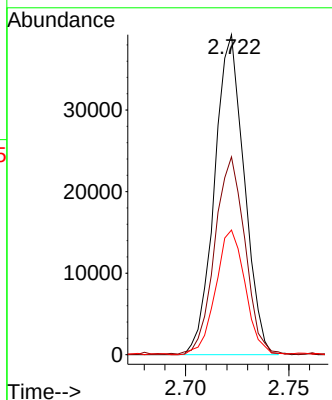
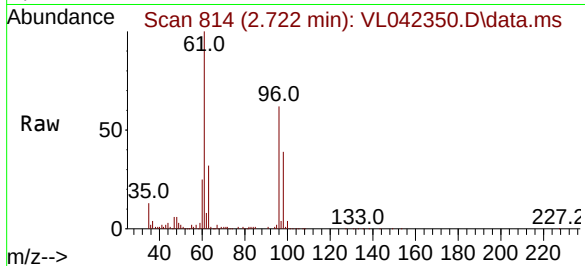




#31
 cis-1,2-Dichloroethene
 Concen: 2.051 ppbv
 RT: 2.722 min Scan# 813
 Delta R.T. 0.003 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

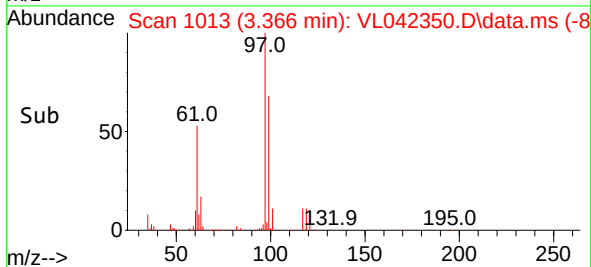
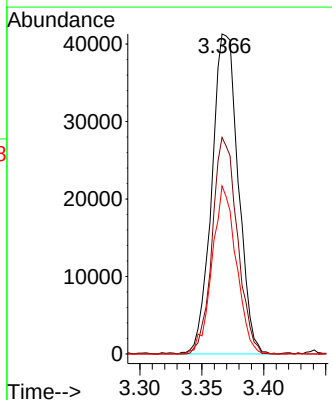
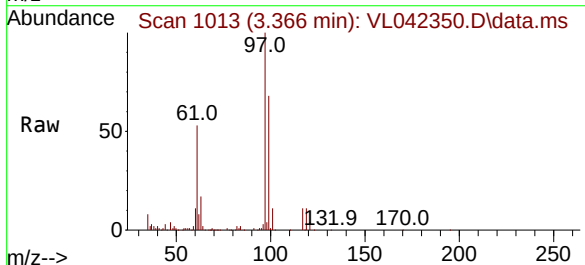
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

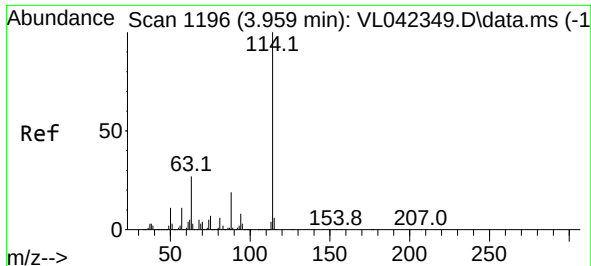
Tgt Ion: 61 Resp: 39249
 Ion Ratio Lower Upper
 61 100
 96 61.6 50.8 76.2
 98 39.0 30.9 46.3



#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

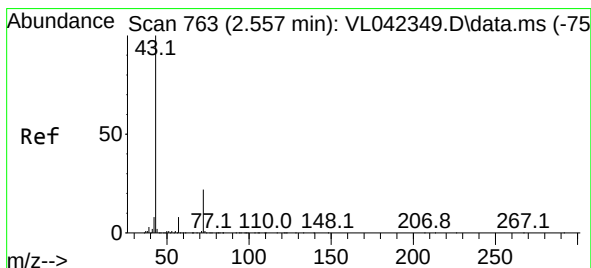
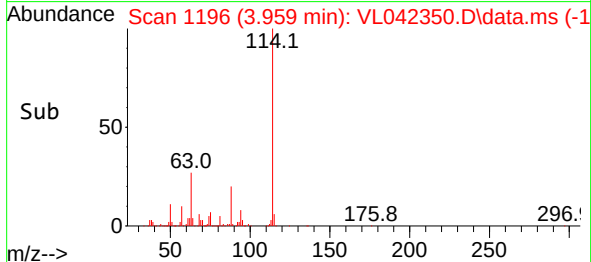
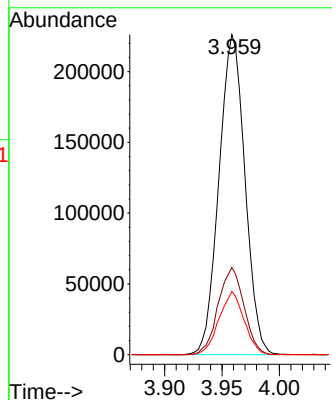
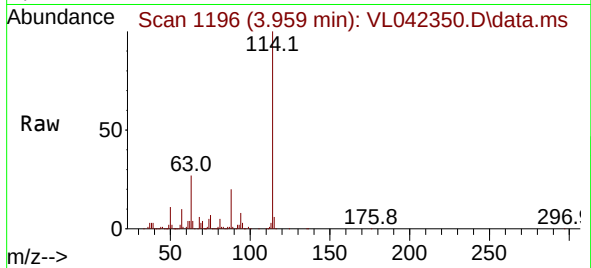




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

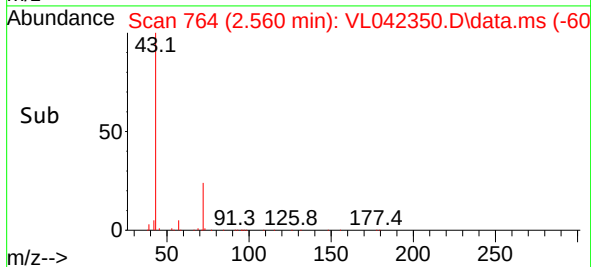
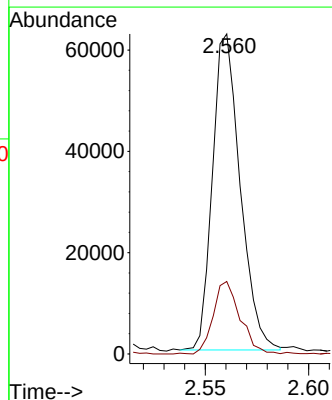
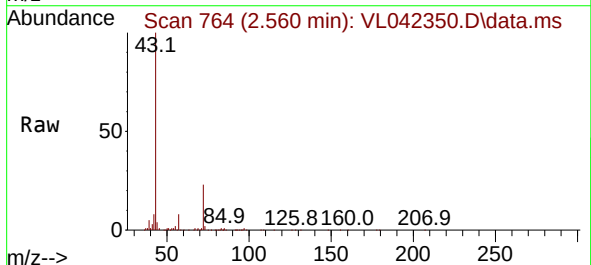
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

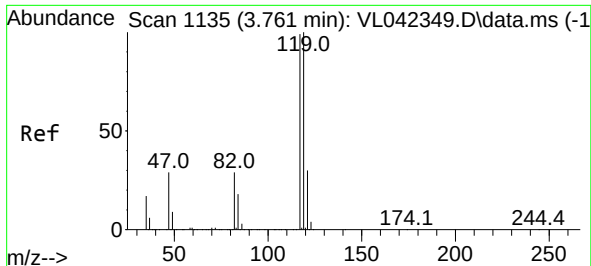
Tgt Ion:114 Resp: 355918
Ion Ratio Lower Upper
114 100
63 27.1 21.8 32.6
88 19.0 15.5 23.3



#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

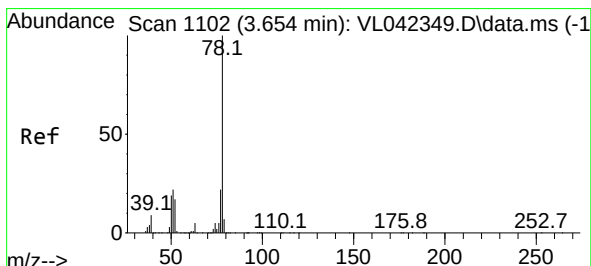
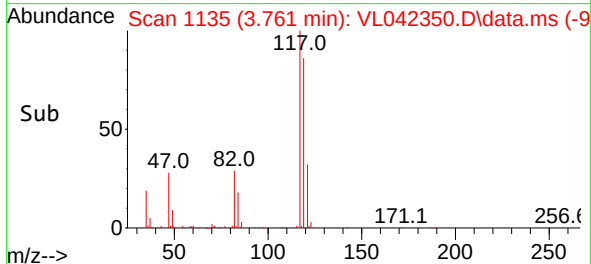
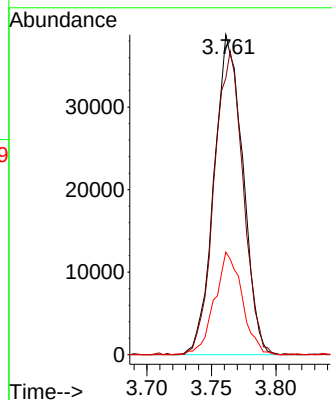
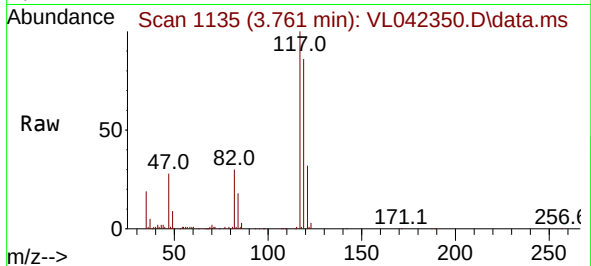




#35
Carbon Tetrachloride
Concen: 1.872 ppbv
RT: 3.761 min Scan# 1135
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

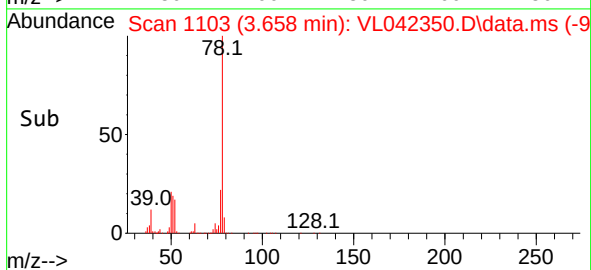
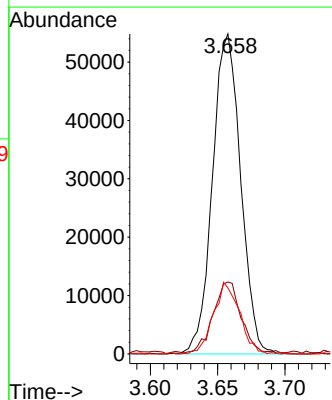
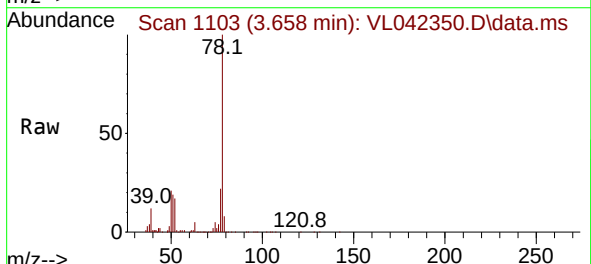
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

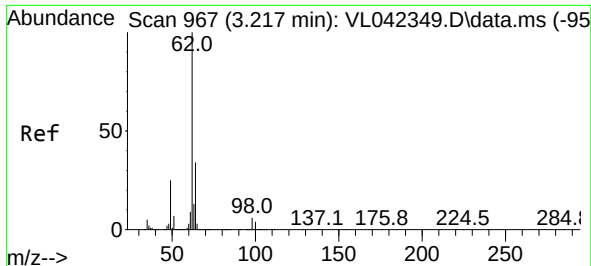
Tgt Ion:117 Resp: 60291
Ion Ratio Lower Upper
117 100
119 86.4 80.5 120.7
121 32.1 24.2 36.2



#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

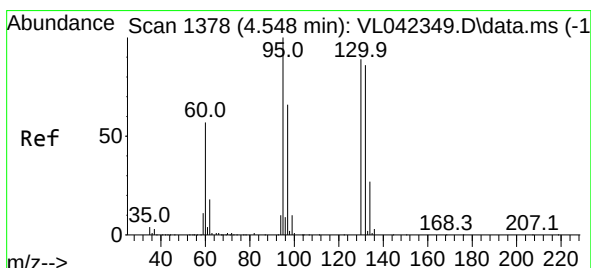
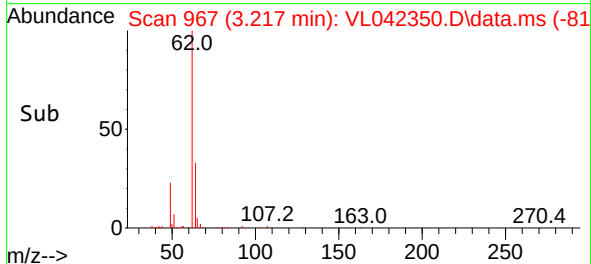
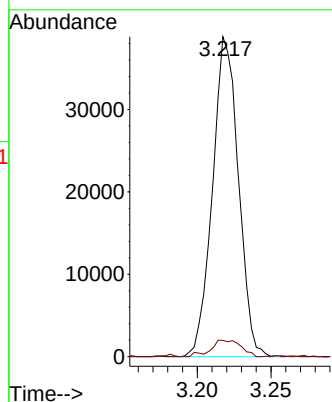
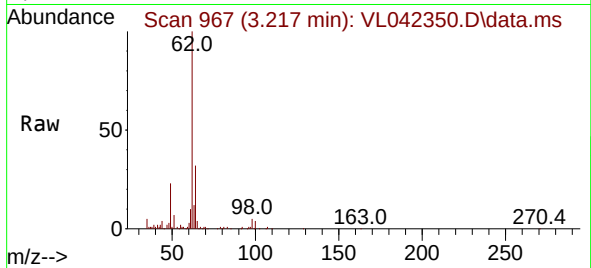




#37
1,2-Dichloroethane
Concen: 2.057 ppbv
RT: 3.217 min Scan# 967
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

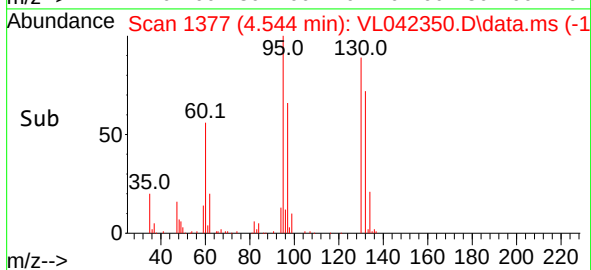
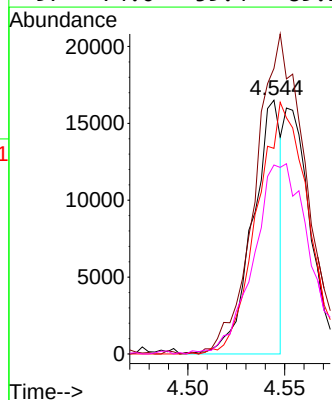
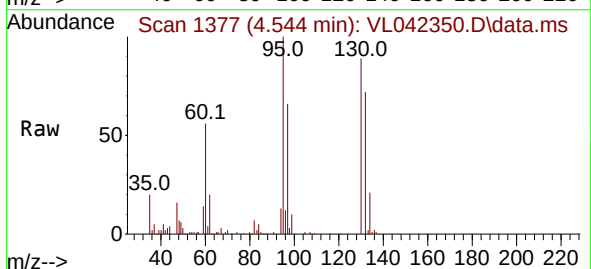
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC002

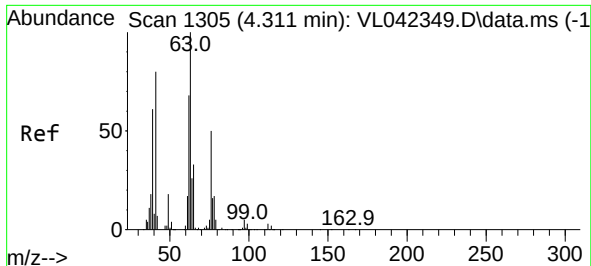
Tgt Ion: 62 Resp: 47398
Ion Ratio Lower Upper
62 100
98 6.4 5.1 7.7



#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

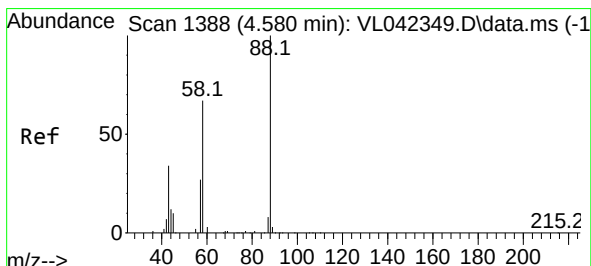
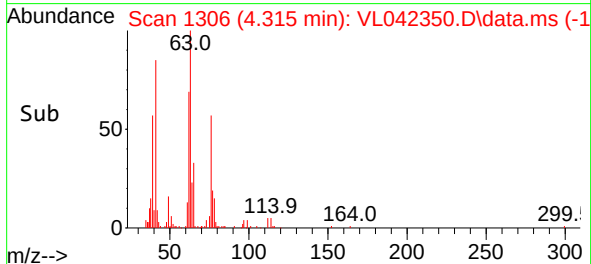
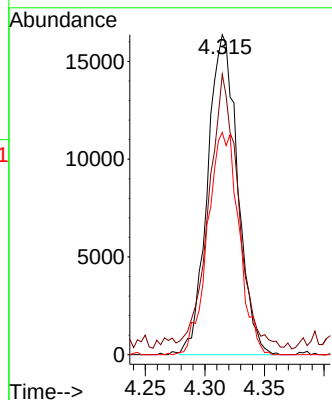
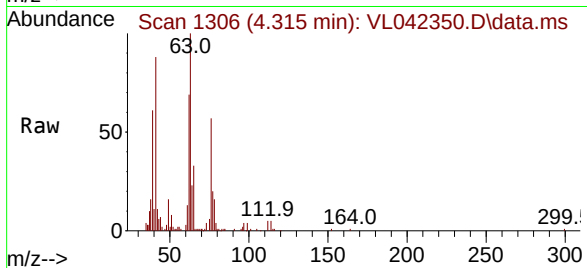
Tgt Ion: 63 Resp: 28806

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

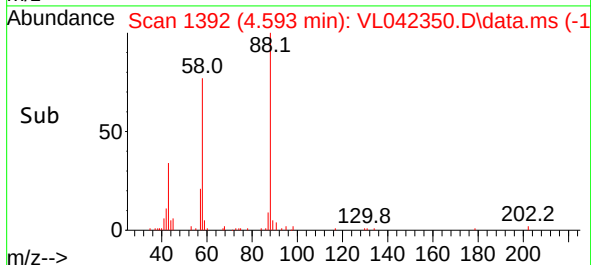
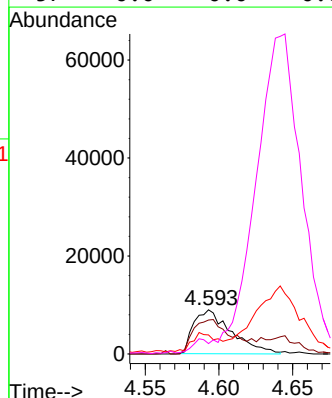
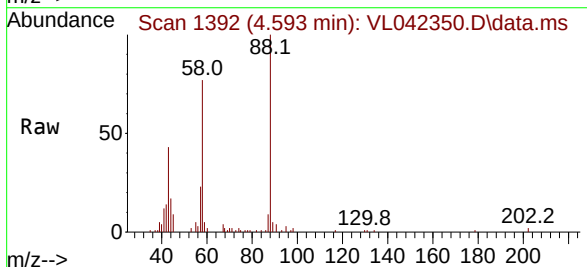
Ion Ratio Lower Upper

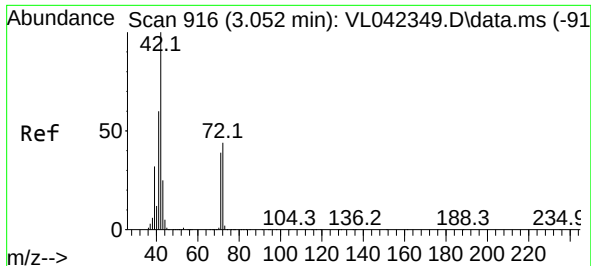
88 100

58 84.9 61.4 92.0

43 6.3 23.2 34.8#

57 0.0 0.0 0.0

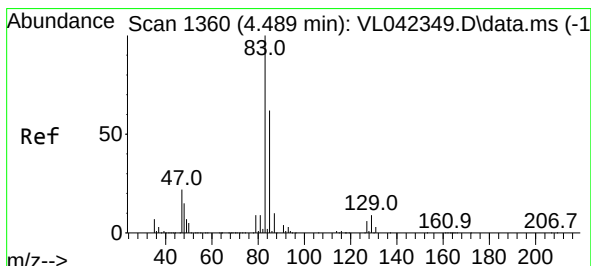
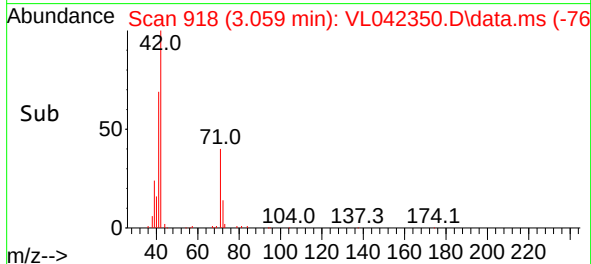
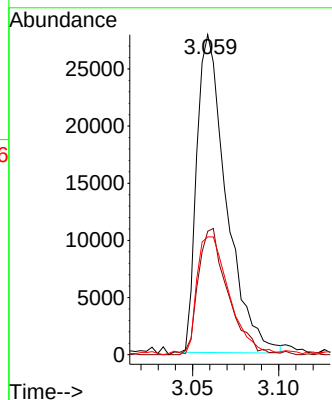
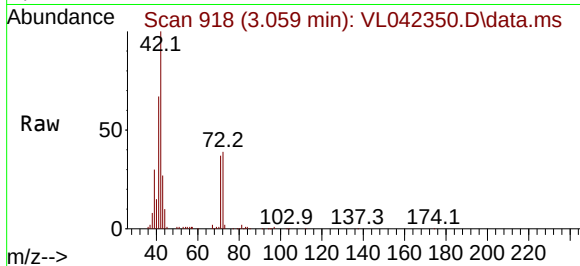




#41
Tetrahydrofuran
Concen: 2.047 ppbv
RT: 3.059 min Scan# 916
Delta R.T. 0.006 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

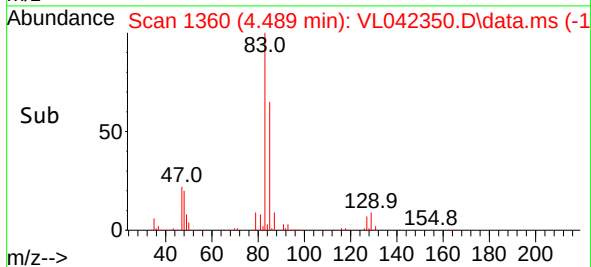
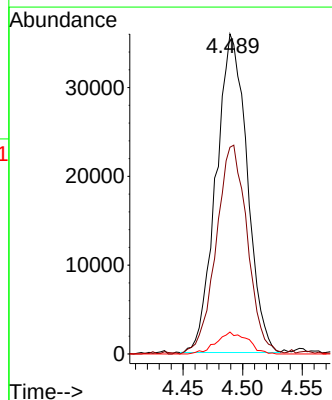
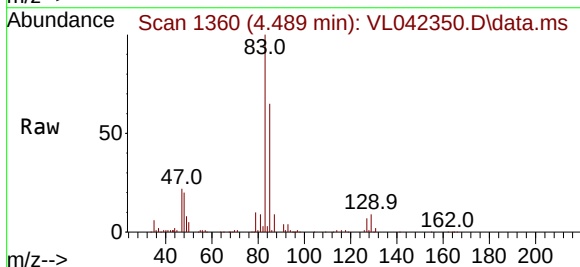
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

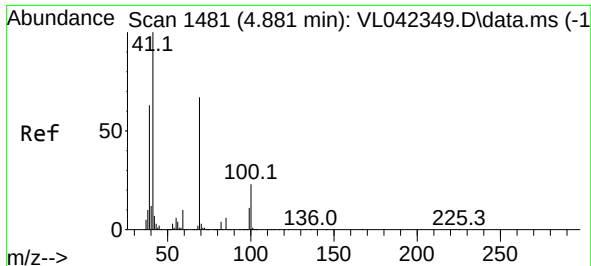
Tgt Ion:	42	Resp:	33298
Ion	Ratio	Lower	Upper
42	100		
72	39.9	32.3	48.5
71	41.5	31.4	47.2



#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

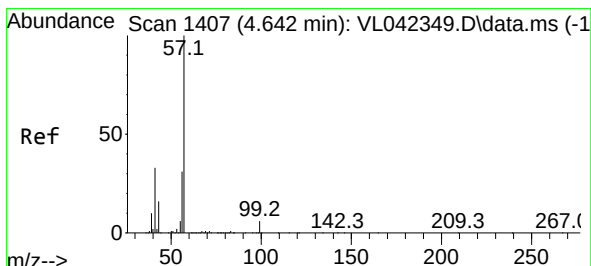
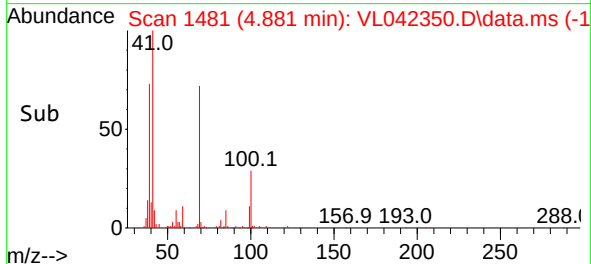
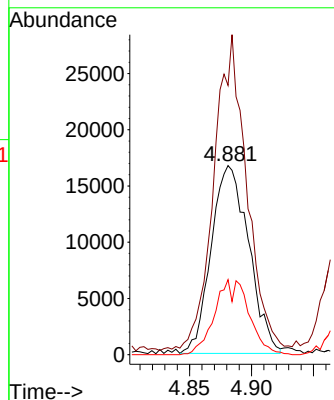
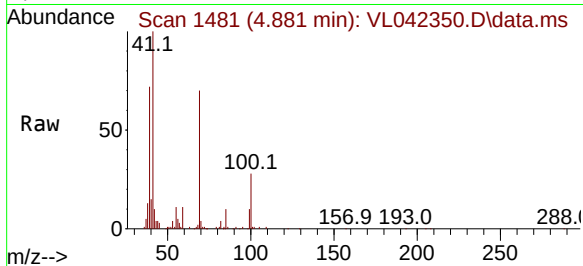




#43
Methyl Methacrylate
Concen: 2.046 ppbv
RT: 4.881 min Scan# 1481
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

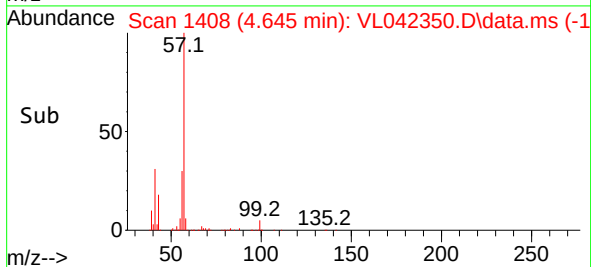
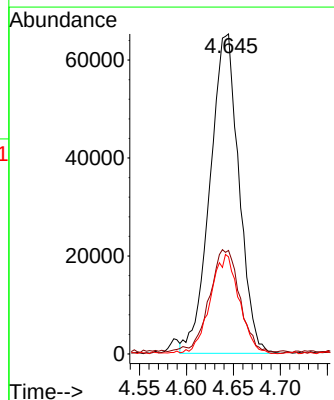
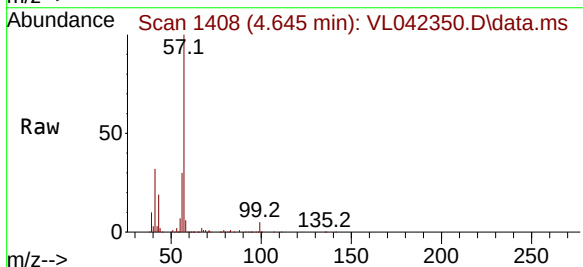
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

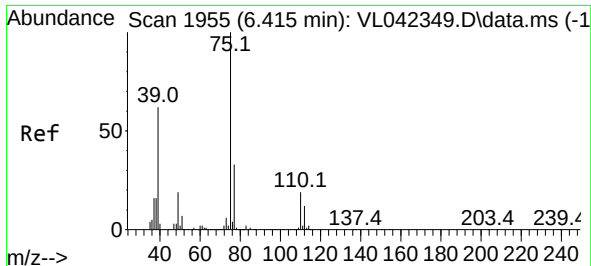
Tgt Ion: 69 Resp: 35256
Ion Ratio Lower Upper
69 100
41 144.4 118.6 177.8
100 36.5 28.2 42.2



#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

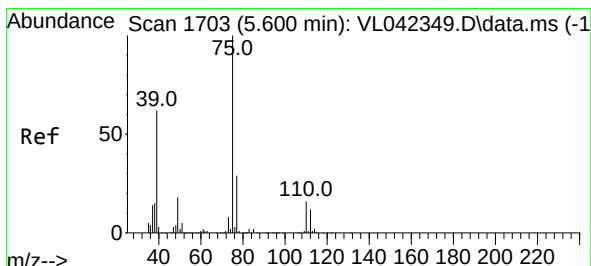
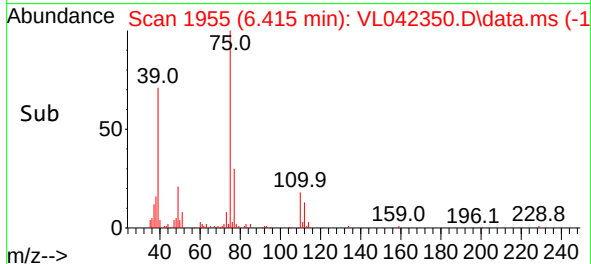
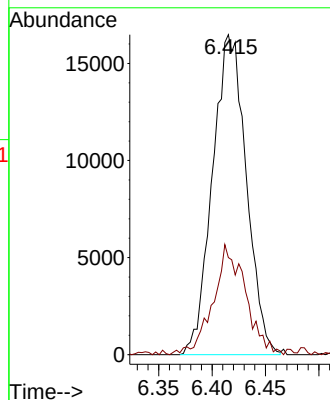
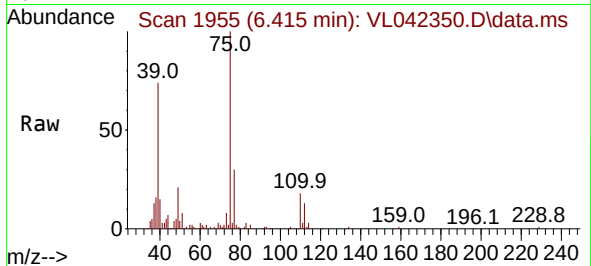




#45
 t-1,3-Dichloropropene
 Concen: 2.050 ppbv
 RT: 6.415 min Scan# 1955
 Delta R.T. -0.000 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

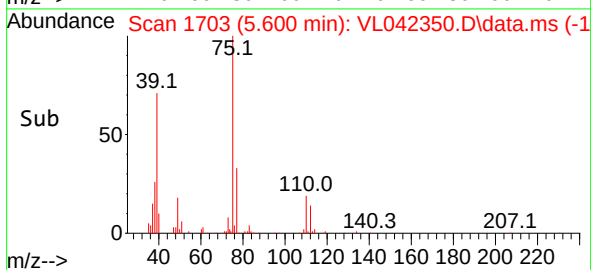
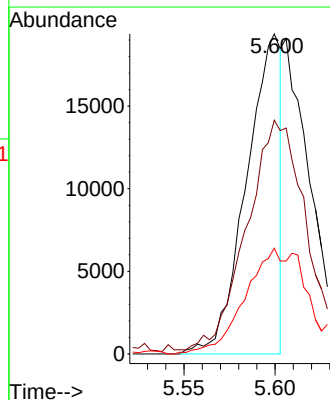
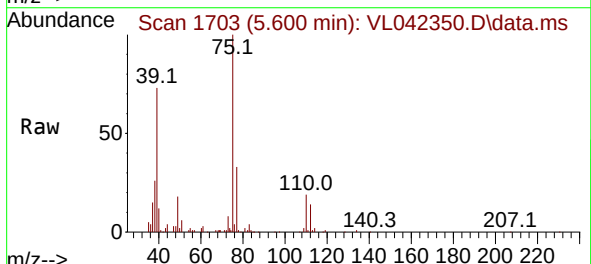
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

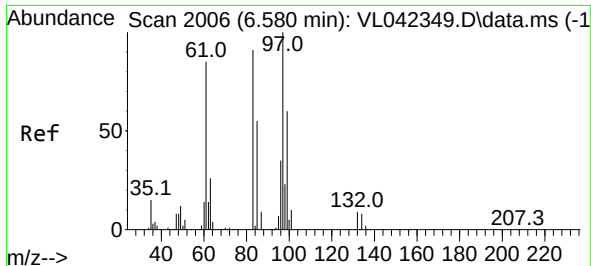
Tgt Ion: 75 Resp: 36265
 Ion Ratio Lower Upper
 75 100
 77 30.4 27.0 40.6



#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

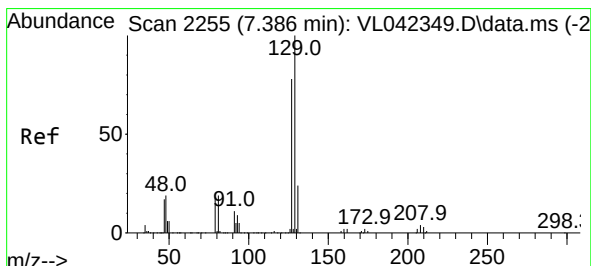
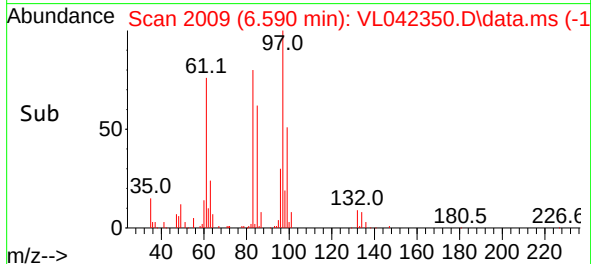
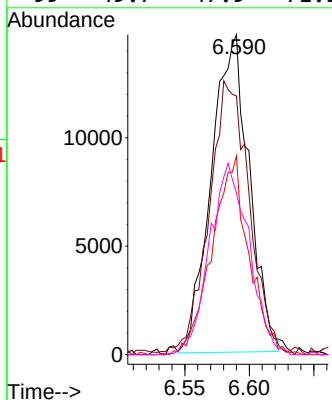
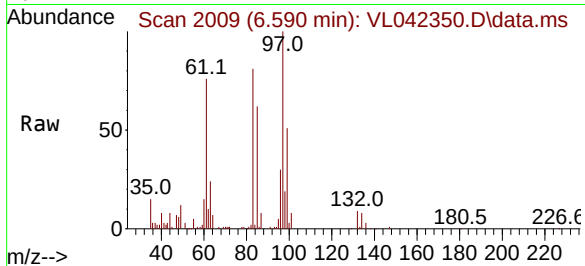




#47
1,1,2-Trichloroethane
Concen: 2.049 ppbv
RT: 6.590 min Scan# 2006
Delta R.T. 0.010 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

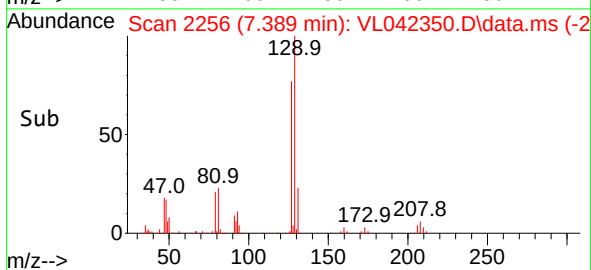
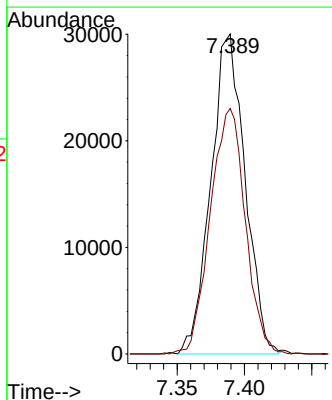
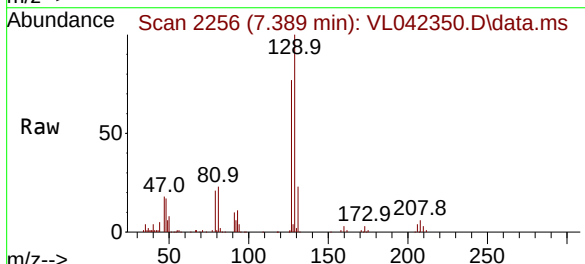
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

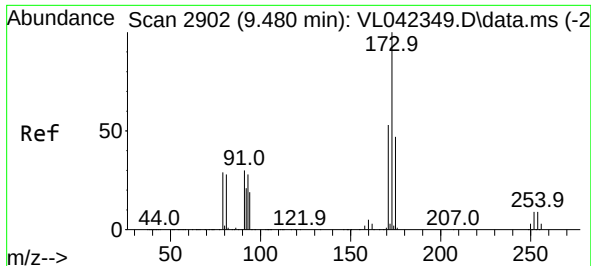
Tgt Ion: 97	Resp: 29879
Ion Ratio	Lower Upper
97 100	
83 78.8	72.8 109.2
85 61.7	44.2 66.4
99 49.7	47.9 71.9



#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	

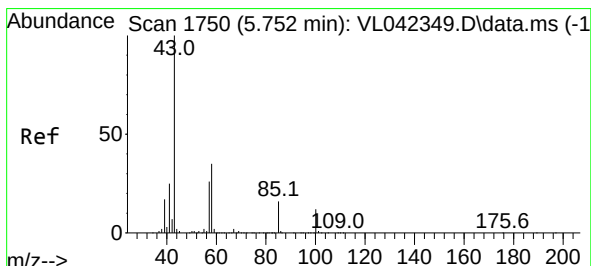
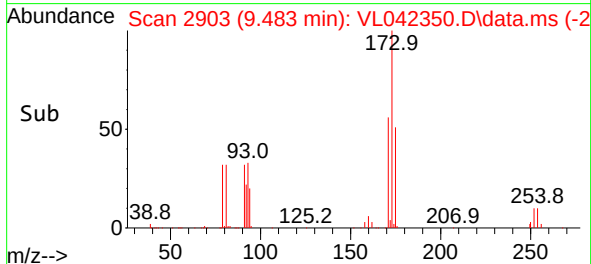
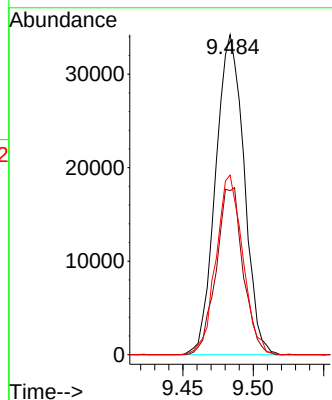
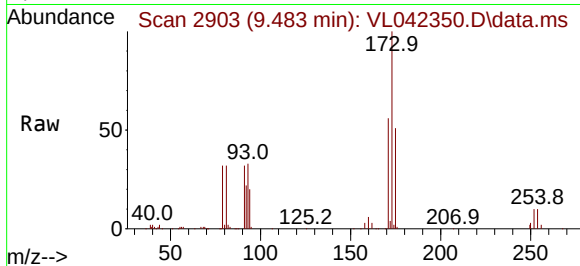




#49
Bromoform
Concen: 2.135 ppbv
RT: 9.483 min Scan# 2902
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

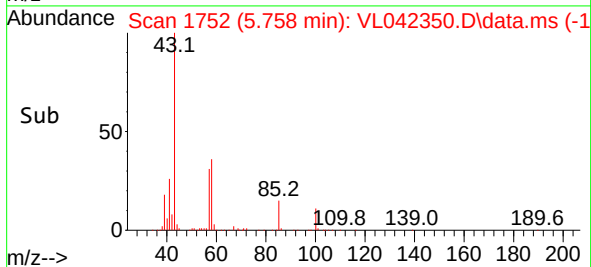
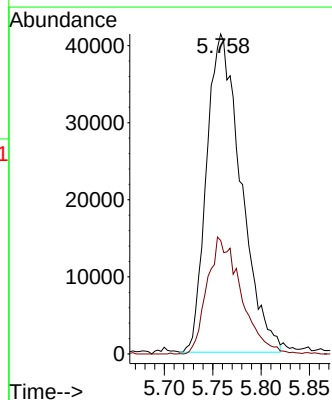
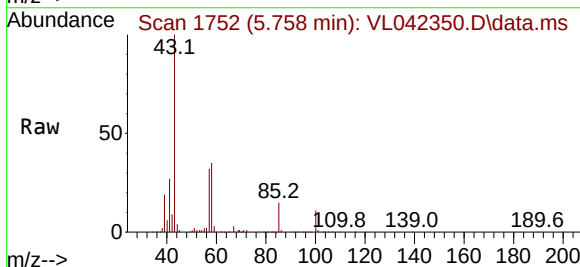
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

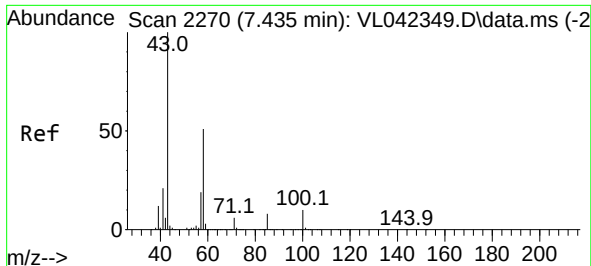
Tgt Ion:173 Resp: 48069
Ion Ratio Lower Upper
173 100
175 49.4 38.2 57.2
171 53.0 40.9 61.3



#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

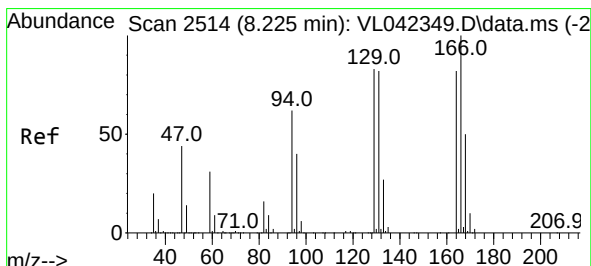
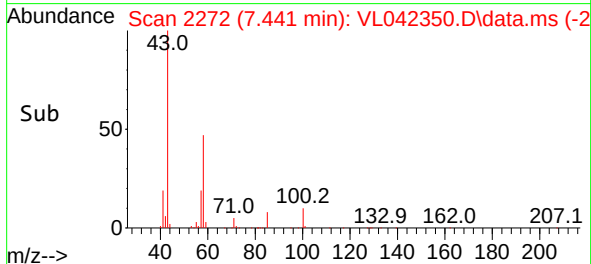
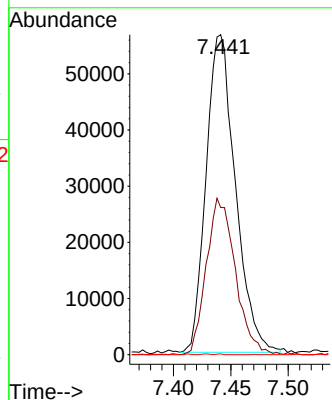
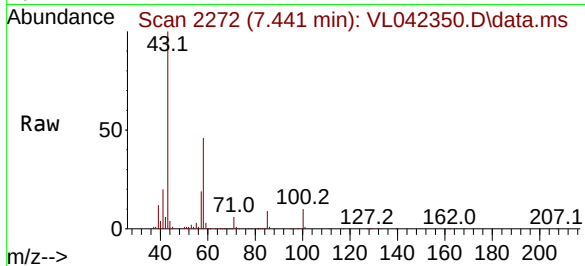




#51
2-Hexanone
Concen: 2.375 ppbv
RT: 7.441 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

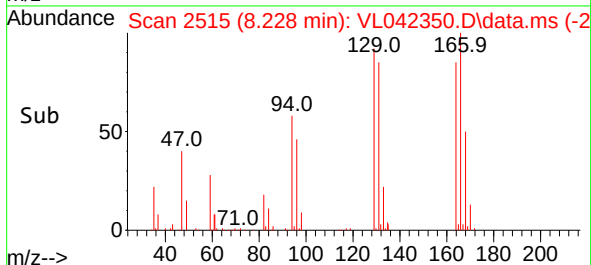
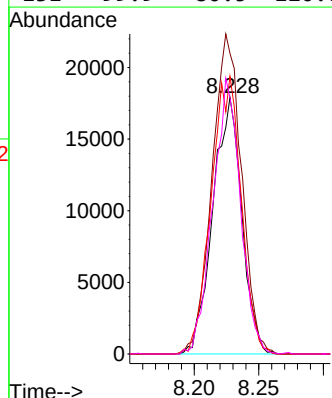
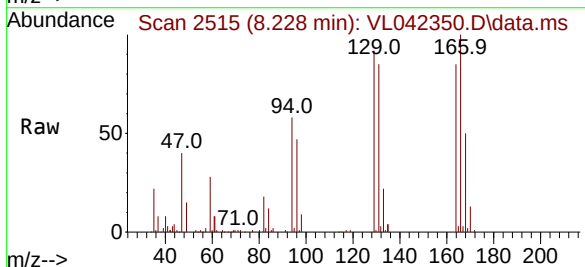
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

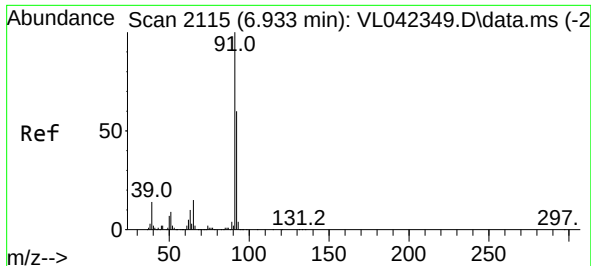
Tgt Ion: 43 Resp: 100443
Ion Ratio Lower Upper
43 100
58 49.0 40.2 60.4
98 0.1 0.1 0.1



#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

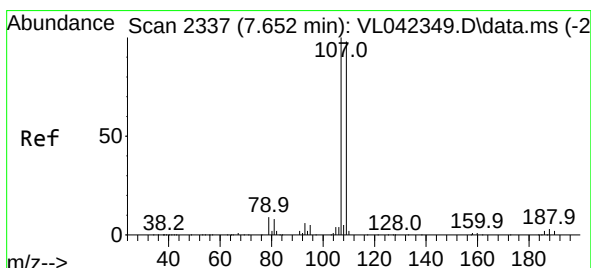
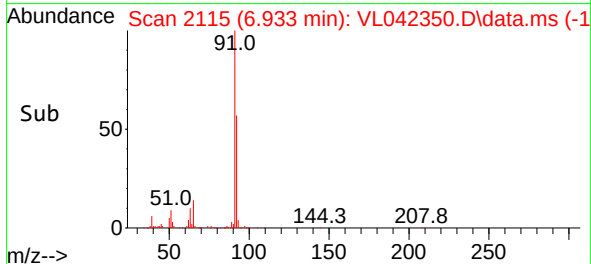
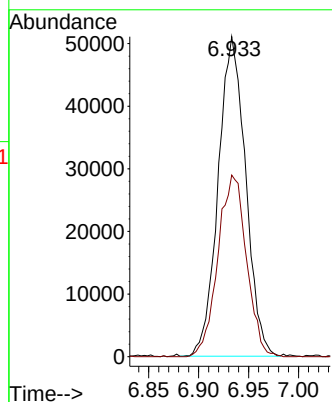
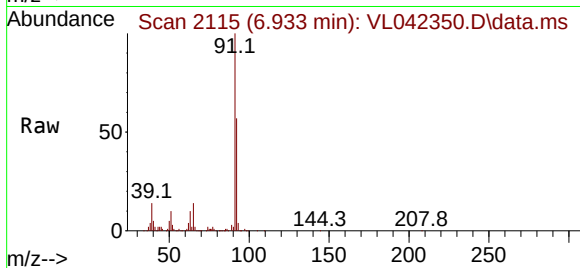




#53
Toluene
Concen: 2.116 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

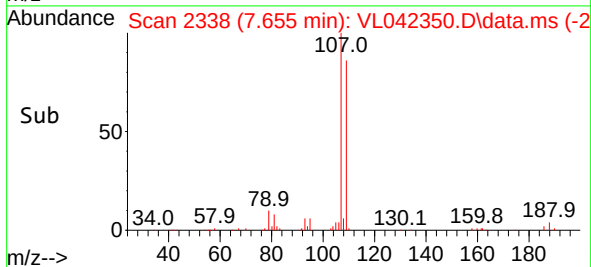
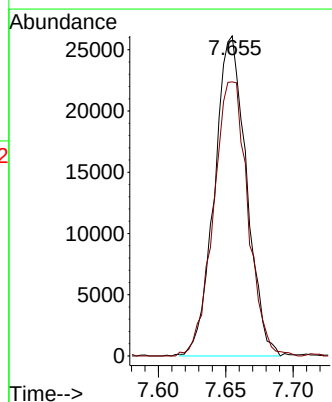
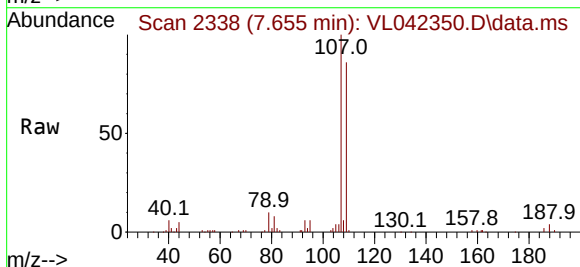
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

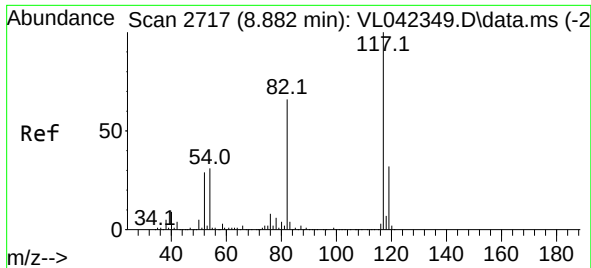
Tgt Ion: 91 Resp: 97493
Ion Ratio Lower Upper
91 100
92 59.1 48.2 72.4



#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

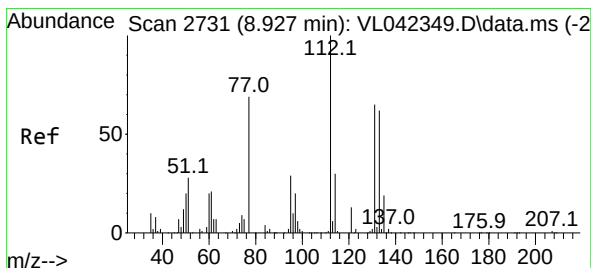
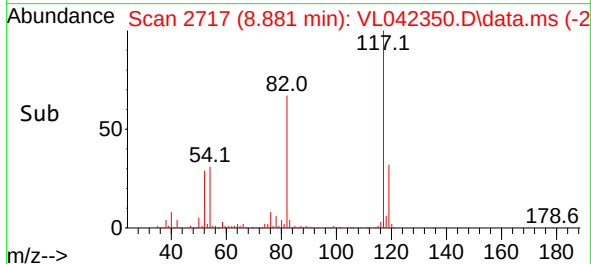
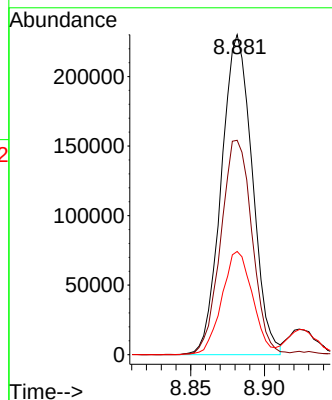
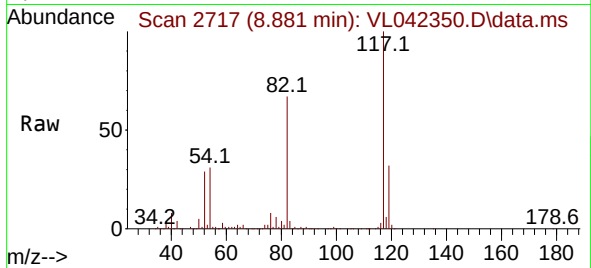




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.881 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

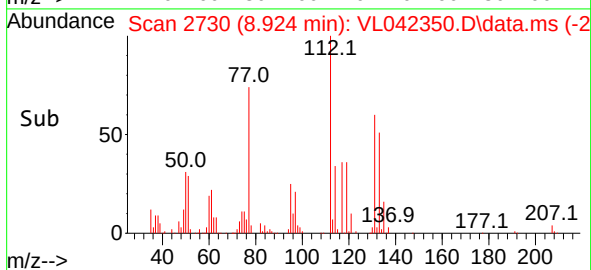
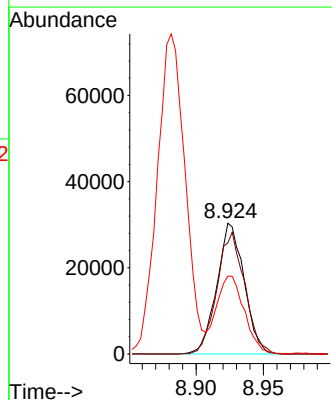
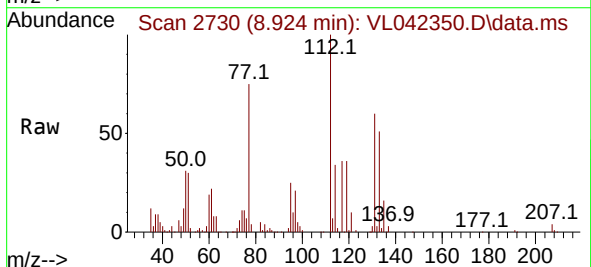
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

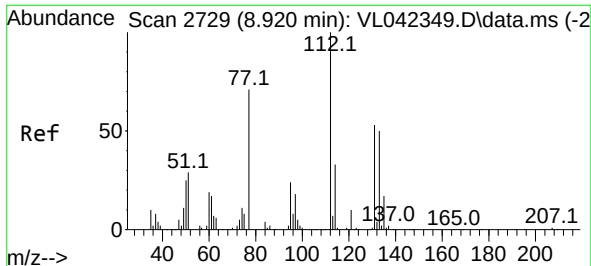
Tgt Ion:117 Resp: 335603
Ion Ratio Lower Upper
117 100
82 68.8 57.8 86.6
119 32.2 25.2 37.8



#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

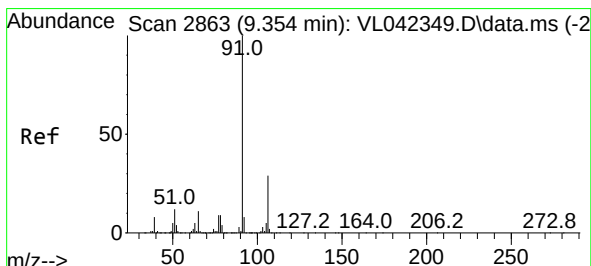
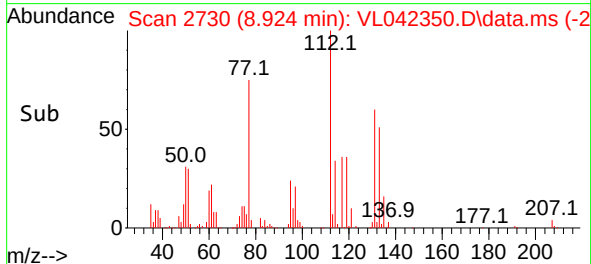
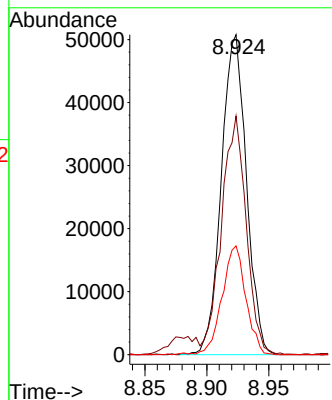
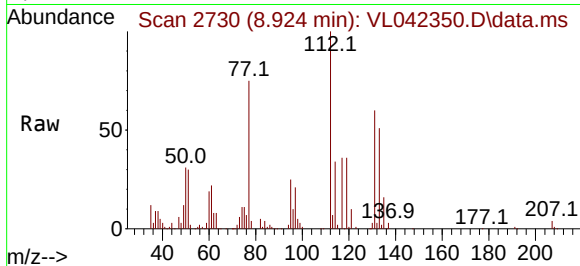




#57
Chlorobenzene
Concen: 2.054 ppbv
RT: 8.924 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

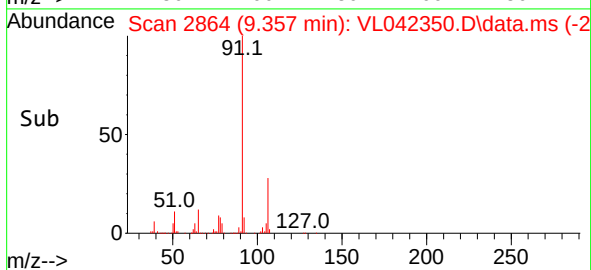
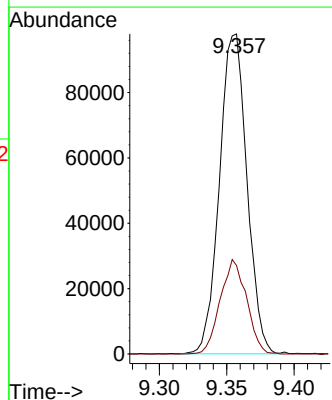
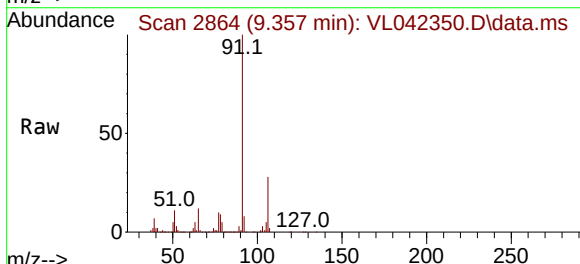
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC002

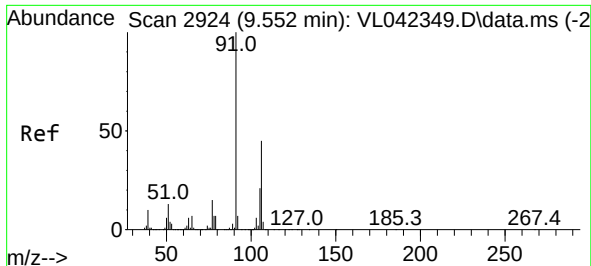
Tgt Ion: 112 Resp: 71685
Ion Ratio Lower Upper
112 100
77 74.0 57.8 86.6
114 34.0 29.3 35.9



#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 :

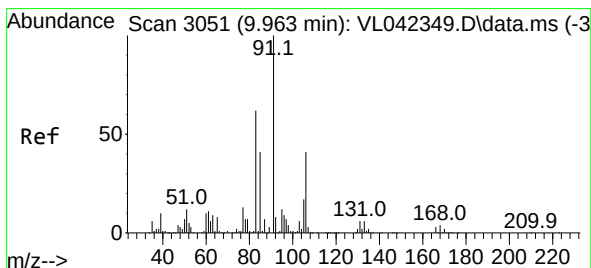
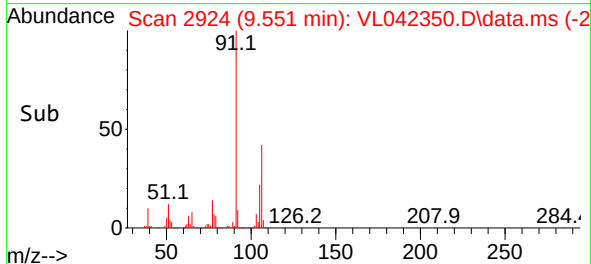
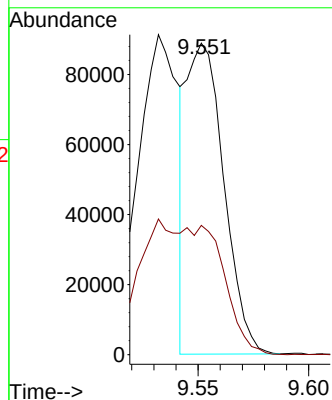
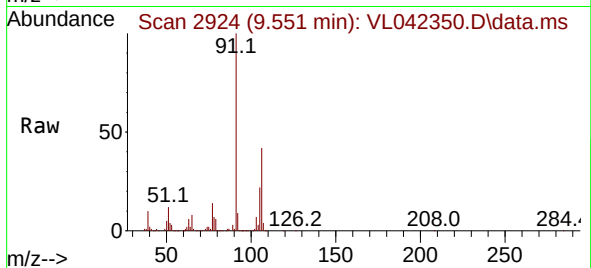
VSTDIC002

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

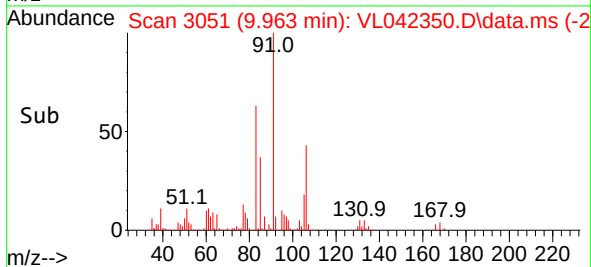
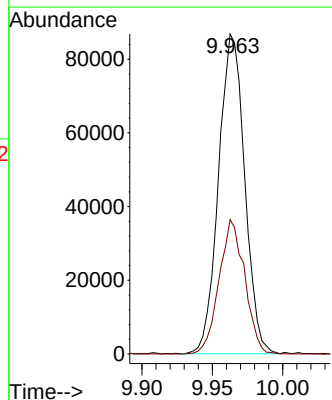
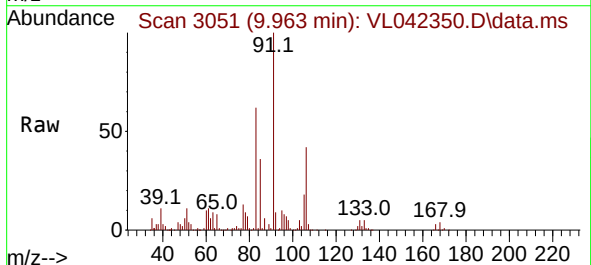
Acq: 17 Apr 2025 10:17

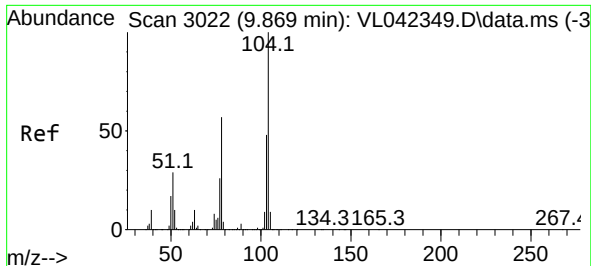
Tgt Ion: 91 Resp: 111972

Ion Ratio Lower Upper

91 100

106 41.2 21.1 63.4

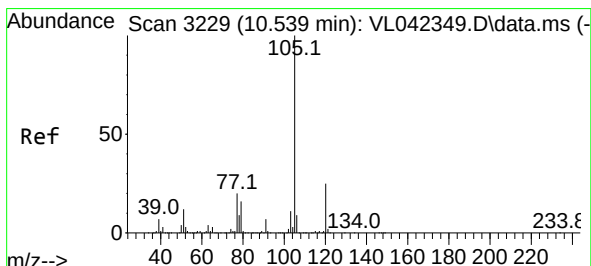
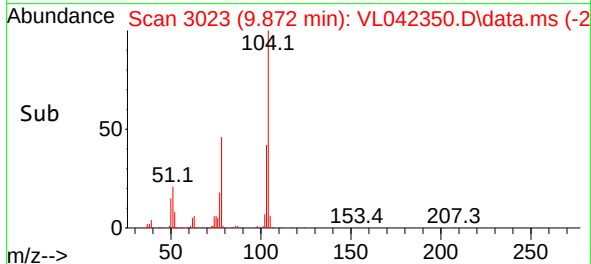
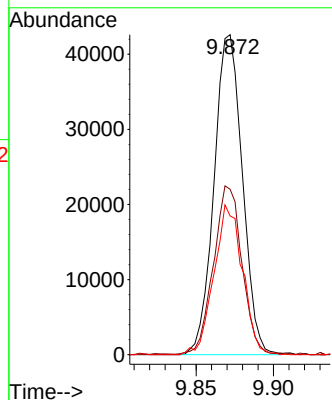
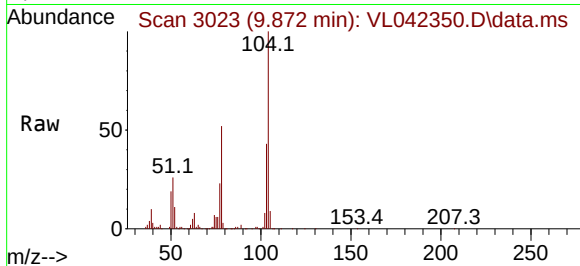




#61
Styrene
Concen: 2.106 ppbv
RT: 9.872 min Scan# 3022
Delta R.T. 0.003 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

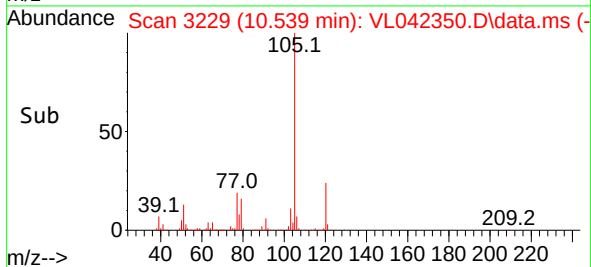
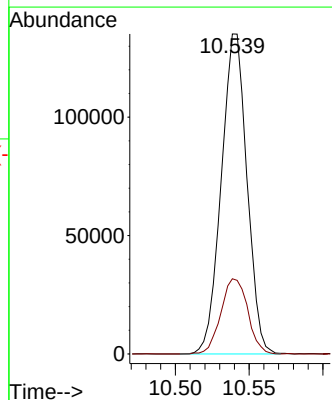
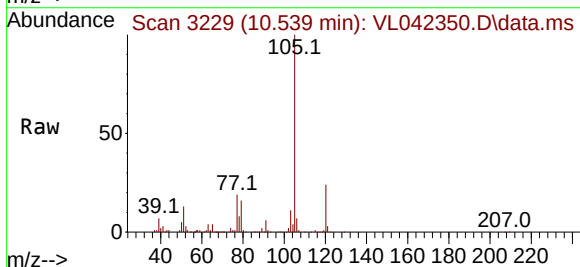
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

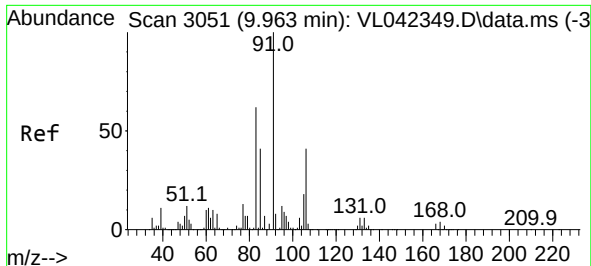
Tgt Ion:104 Resp: 54229
Ion Ratio Lower Upper
104 100
78 53.4 44.6 66.8
103 47.1 37.4 56.0



#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

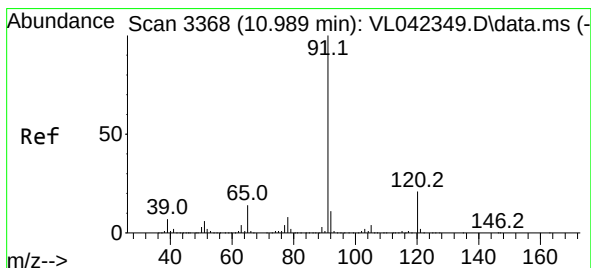
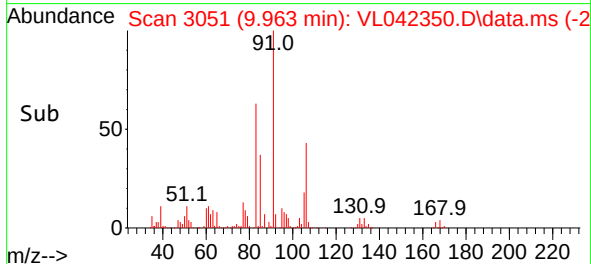
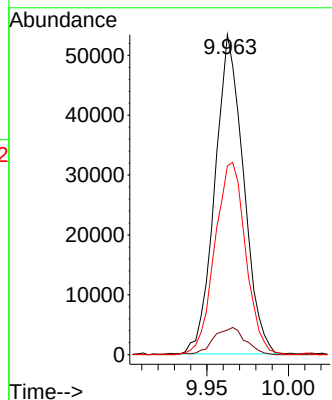
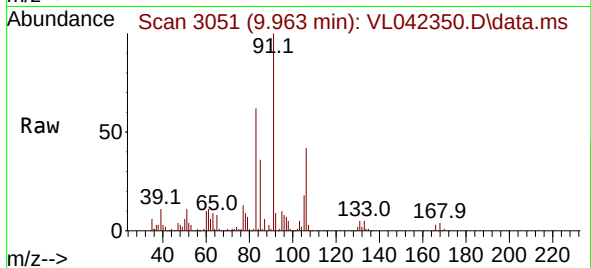
Tgt Ion: 83 Resp: 64952

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

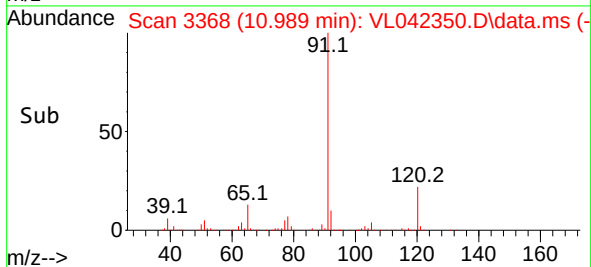
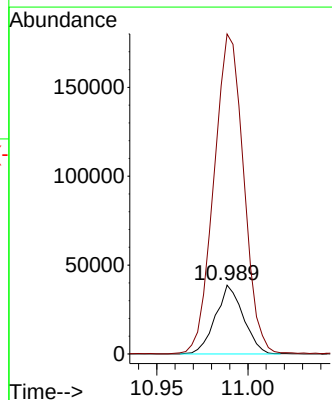
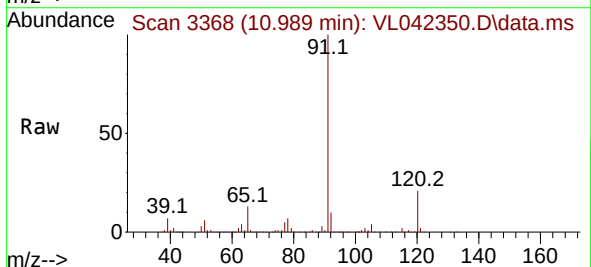
Acq: 17 Apr 2025 10:17

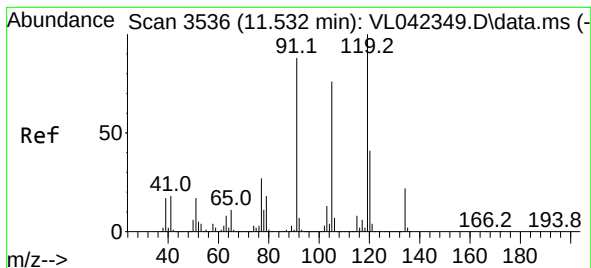
Tgt Ion:120 Resp: 40956

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

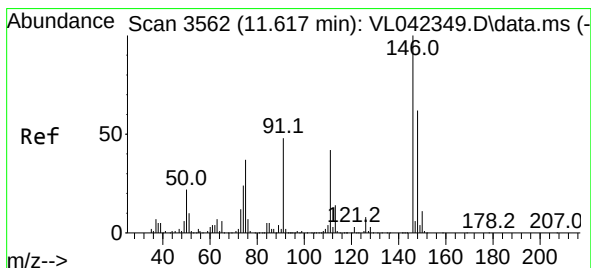
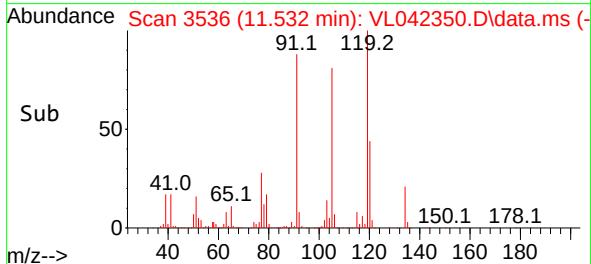
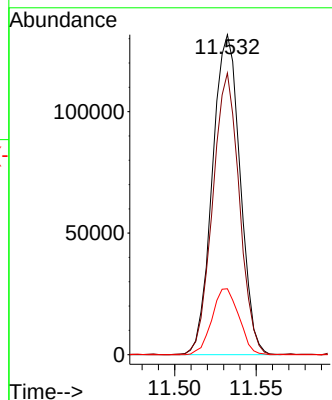
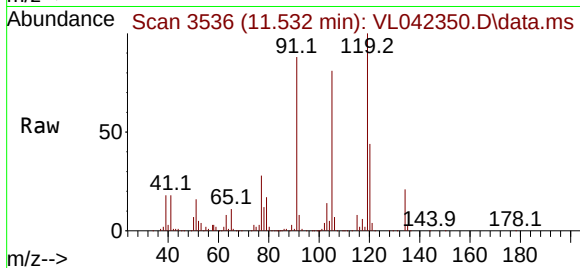
Tgt Ion:119 Resp: 155401

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

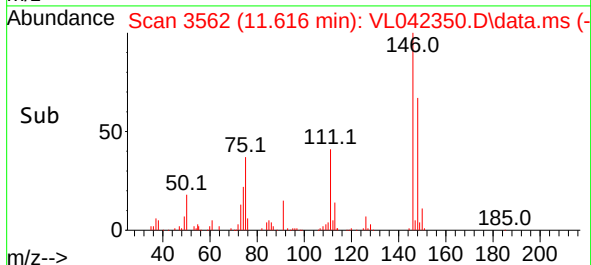
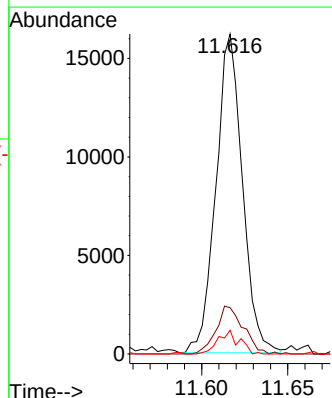
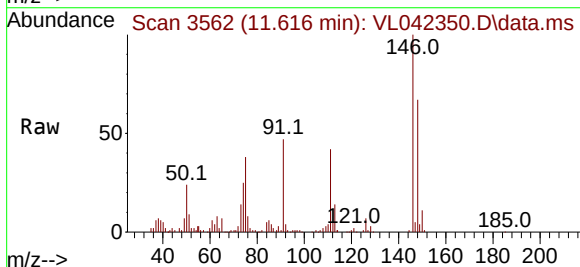
Tgt Ion: 91 Resp: 17300

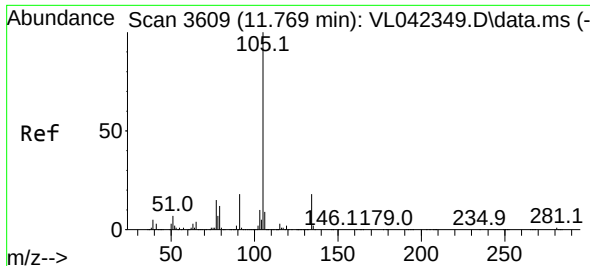
Ion Ratio Lower Upper

91 100

126 15.6 11.8 17.6

128 6.1 4.5 6.7

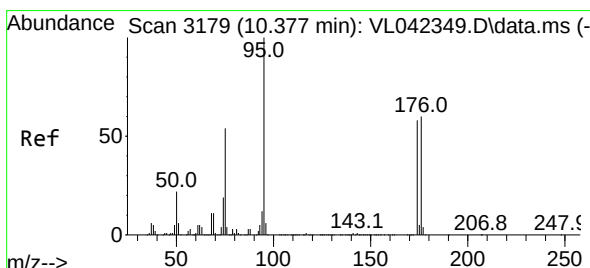
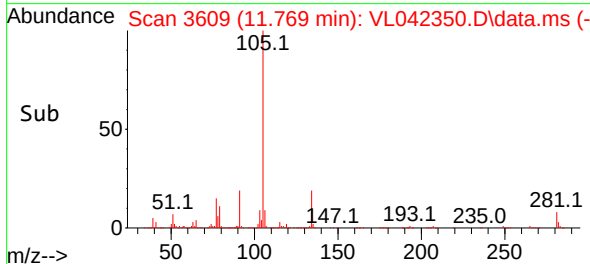
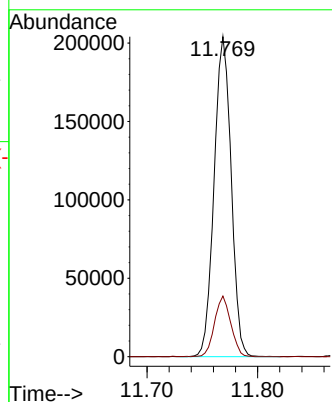
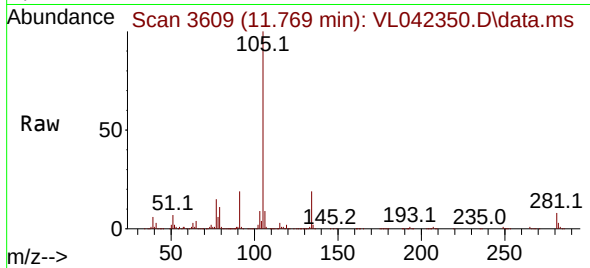




#67
 sec-Butylbenzene
 Concen: 2.156 ppbv
 RT: 11.769 min Scan# 3609
 Delta R.T. -0.000 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

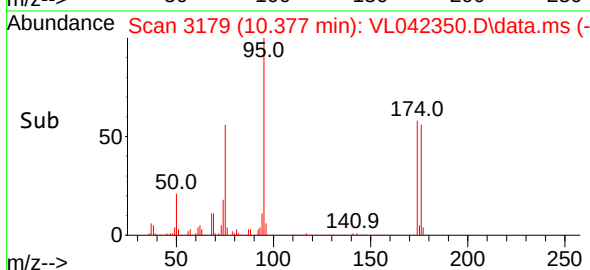
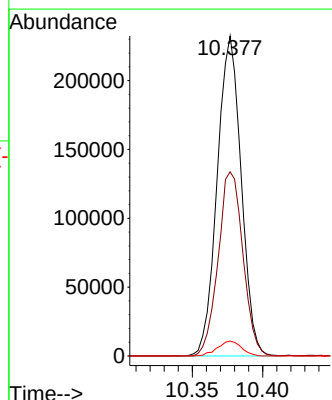
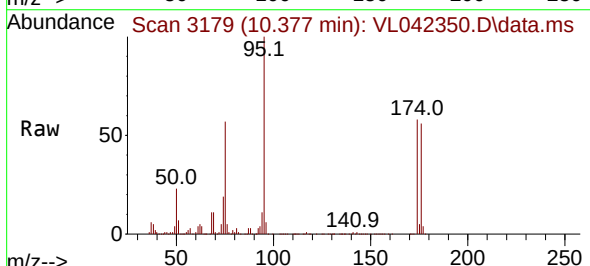
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC002

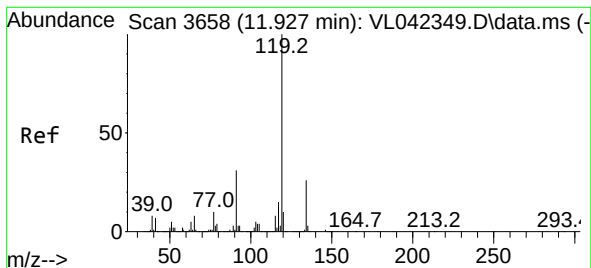
Tgt Ion:105 Resp: 218327
 Ion Ratio Lower Upper
 105 100
 134 18.1 14.6 21.8



#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

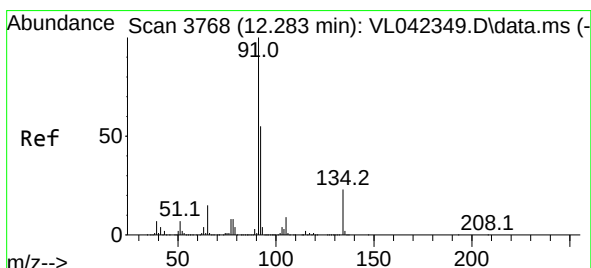
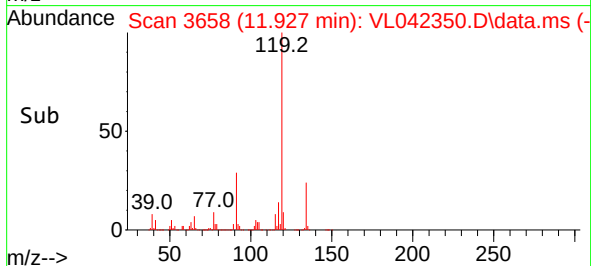
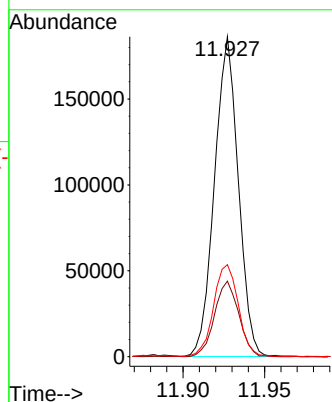
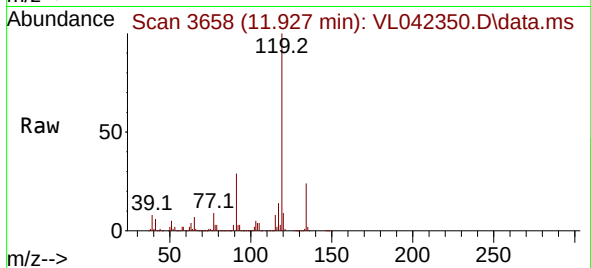




#69
 p-Isopropyltoluene
 Concen: 2.145 ppbv
 RT: 11.927 min Scan# 3658
 Delta R.T. -0.000 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

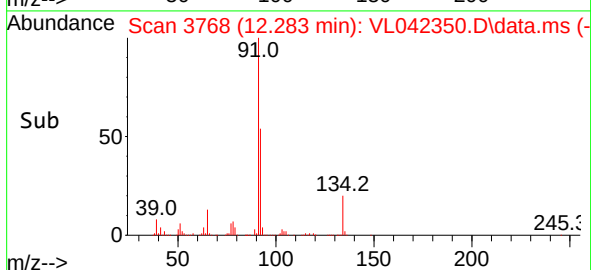
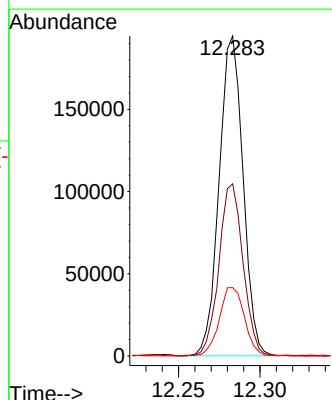
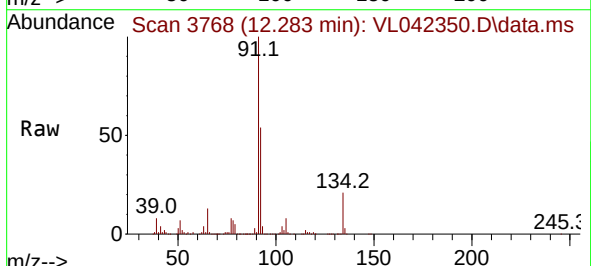
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

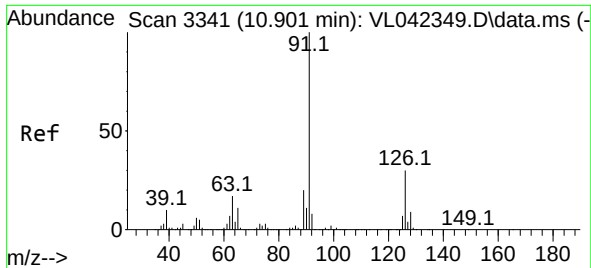
Tgt Ion: 119 Resp: 188657
 Ion Ratio Lower Upper
 119 100
 134 24.2 20.0 30.0
 91 30.8 24.4 36.6



#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

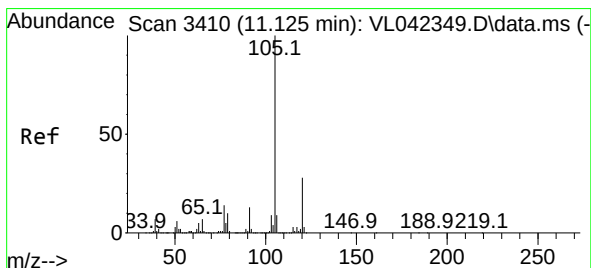
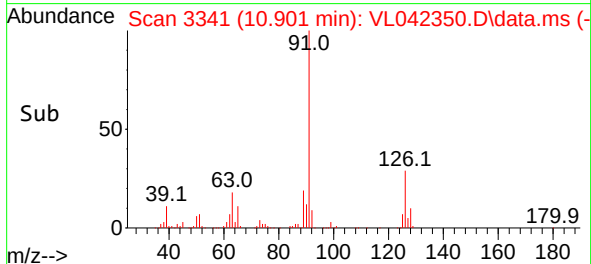
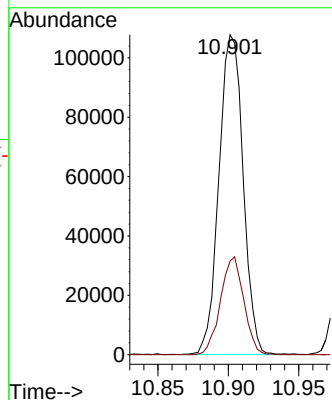
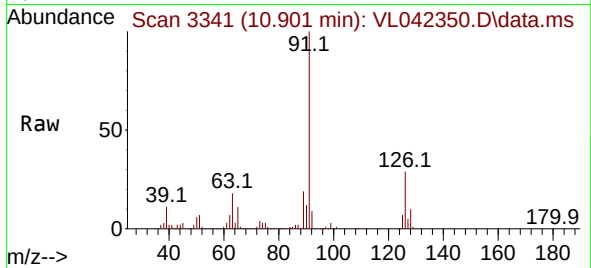




#71
2-Chlorotoluene
Concen: 2.075 ppbv
RT: 10.901 min Scan# 31
Delta R.T. -0.000 min
Lab File: VL042350.D
Acq: 17 Apr 2025 10:17

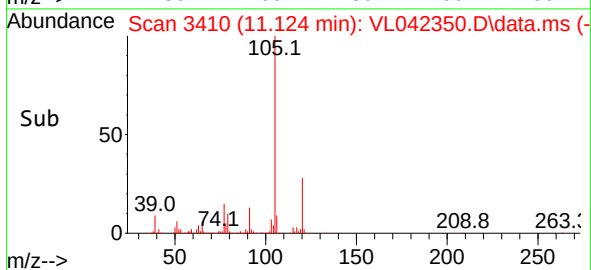
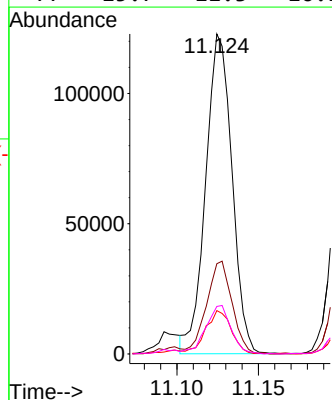
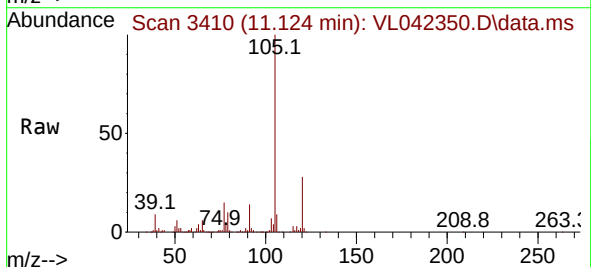
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

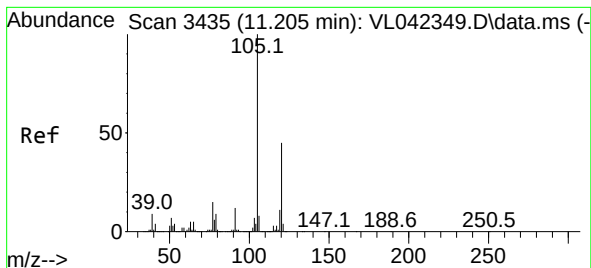
Tgt Ion: 91 Resp: 128858
Ion Ratio Lower Upper
91 100
126 29.5 11.4 45.4



#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 :

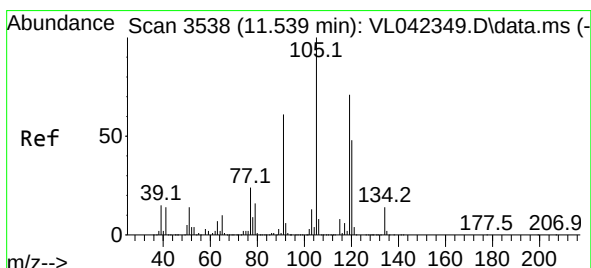
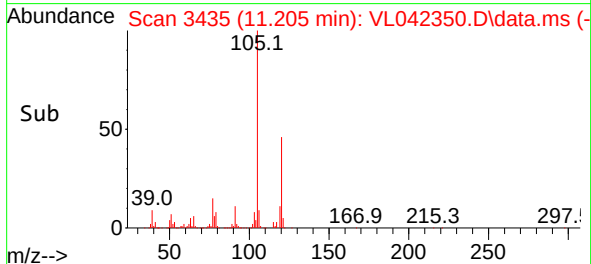
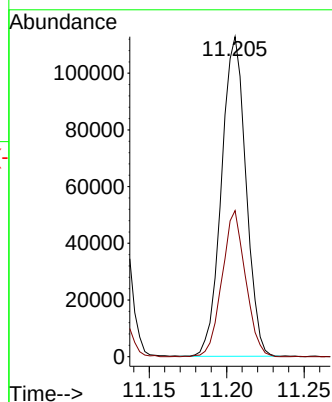
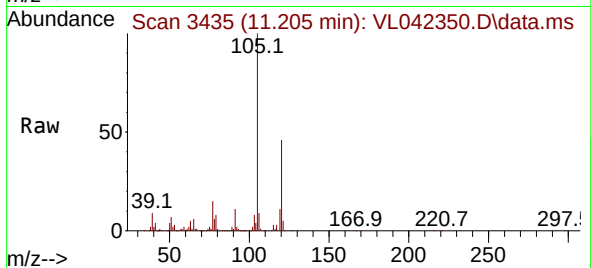
VSTDIC002

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

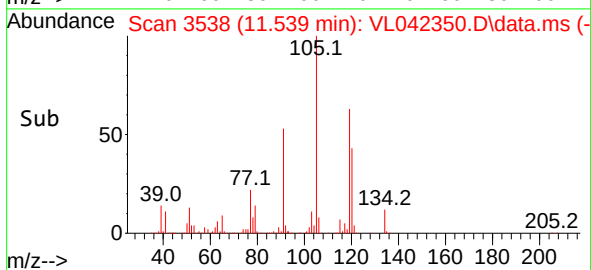
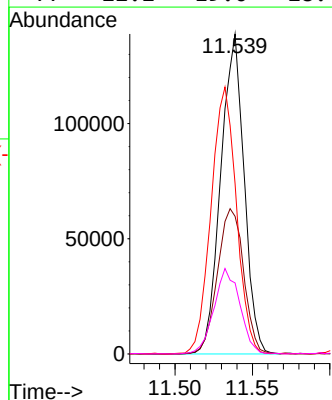
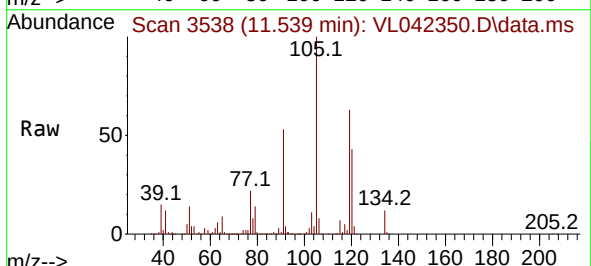
Ion Ratio Lower Upper

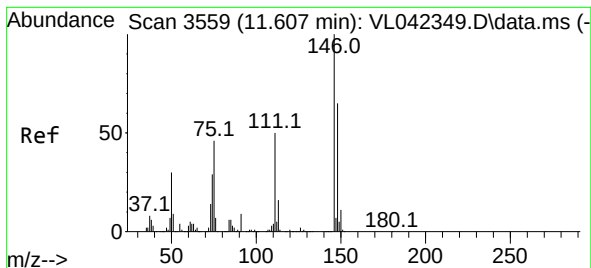
105 100

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_L

ClientSampleId :

VSTDICC002

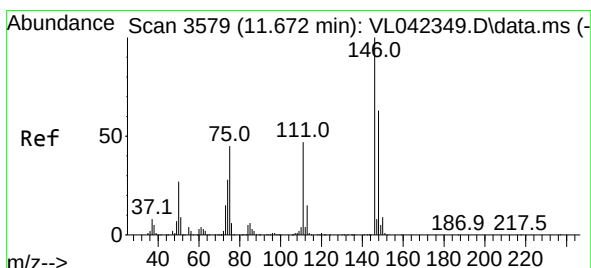
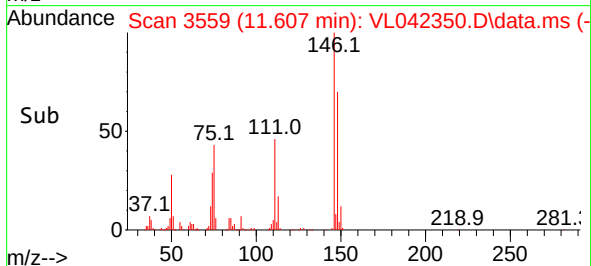
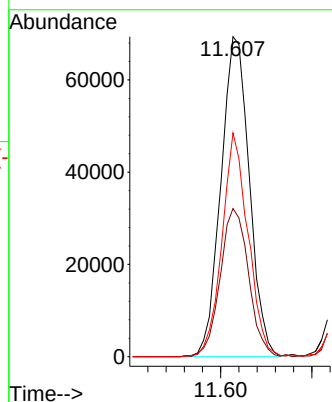
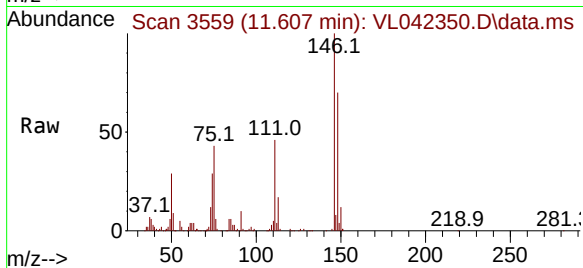
Tgt Ion:146 Resp: 75082

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

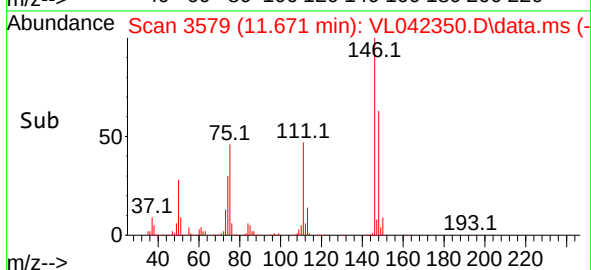
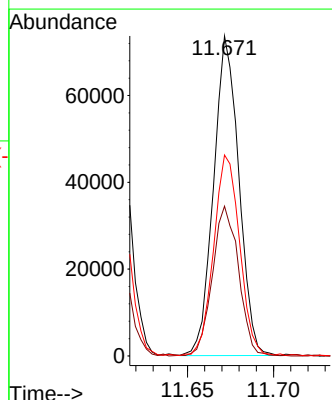
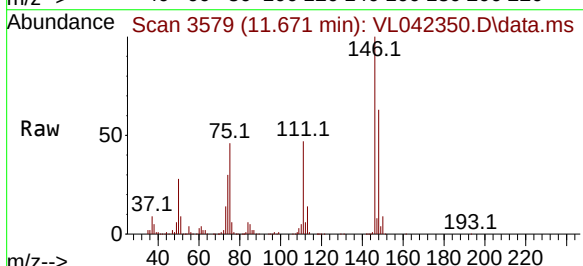
Tgt Ion:146 Resp: 75323

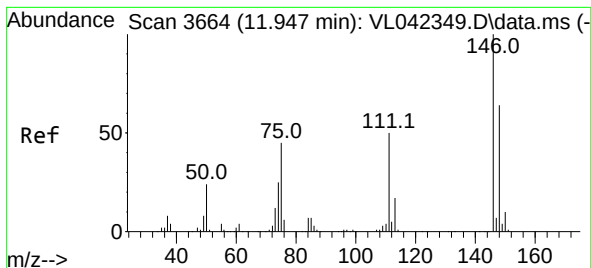
Ion Ratio Lower Upper

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# 3

Delta R.T. -0.000 min

Lab File: VL042350.D

Acq: 17 Apr 2025 10:17

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

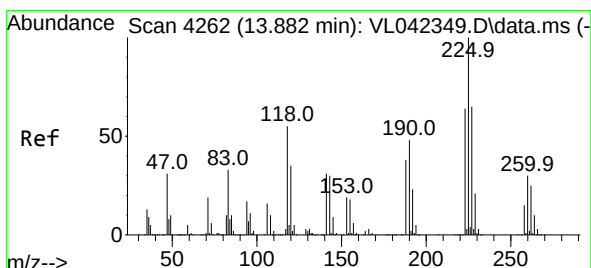
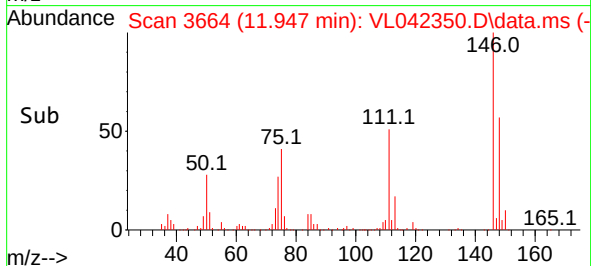
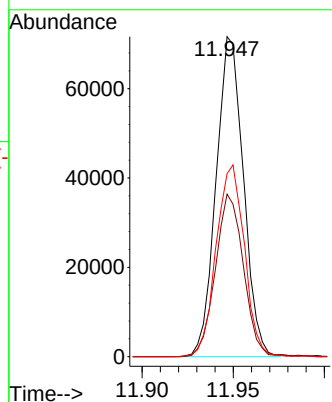
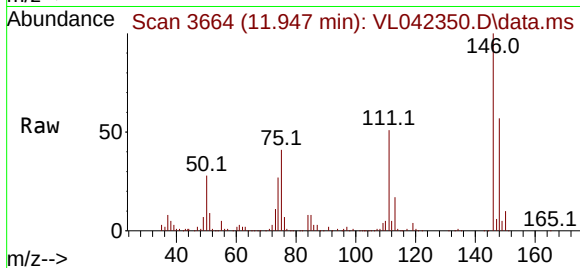
Tgt Ion:146 Resp: 74786

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

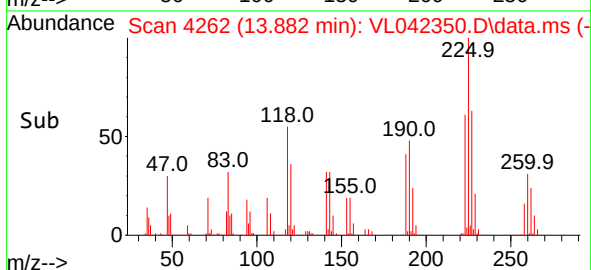
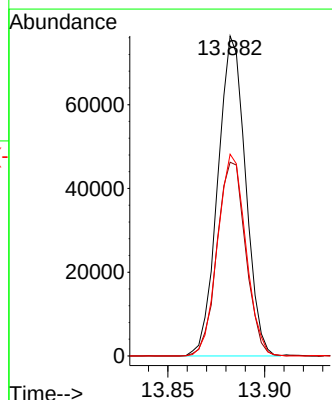
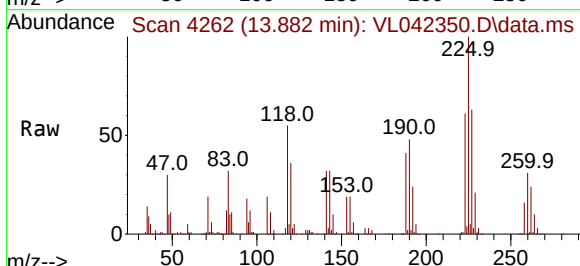
Tgt Ion:225 Resp: 76158

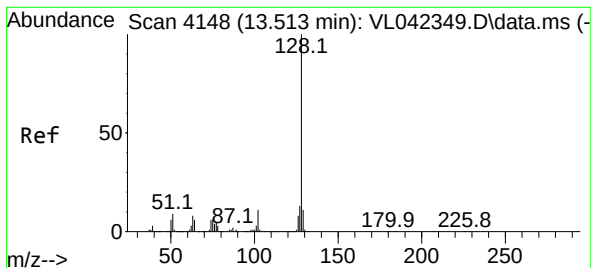
Ion Ratio Lower Upper

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

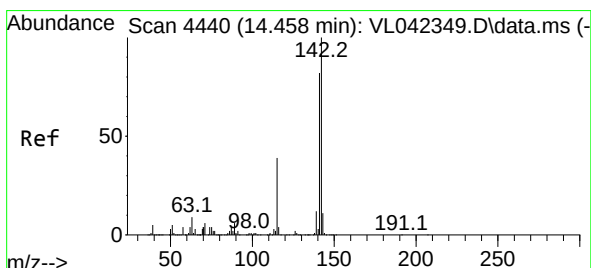
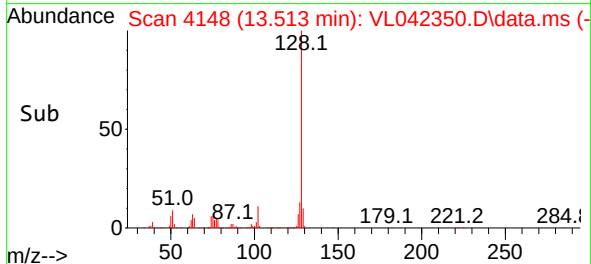
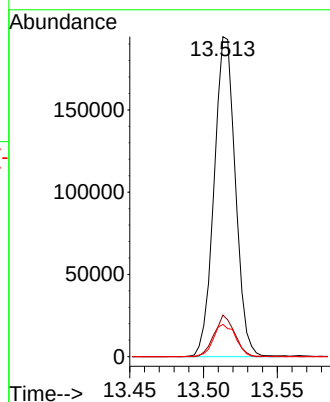
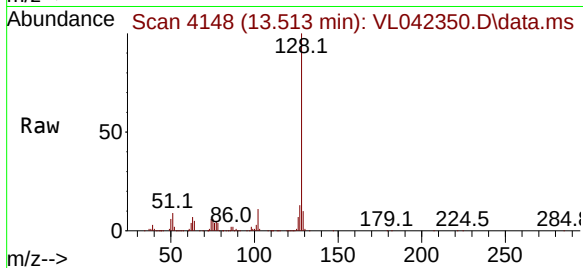
Tgt Ion:128 Resp: 195233

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

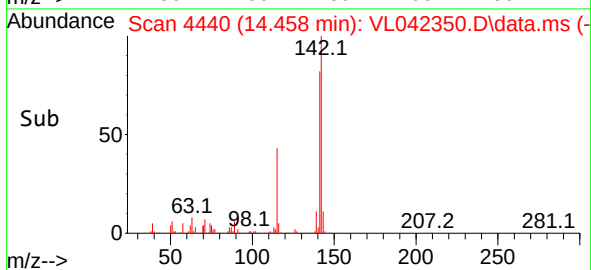
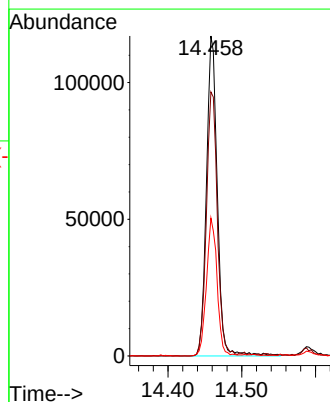
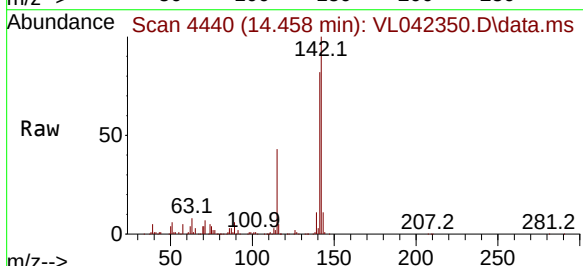
Tgt Ion:142 Resp: 119262

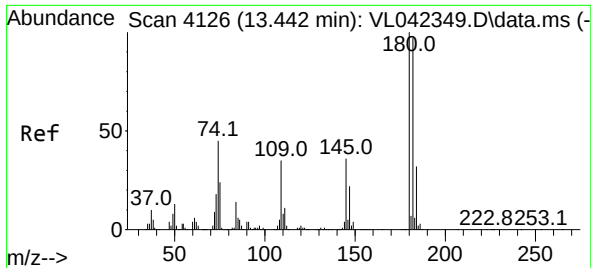
Ion Ratio Lower Upper

142 100

141 84.7 66.8 100.2

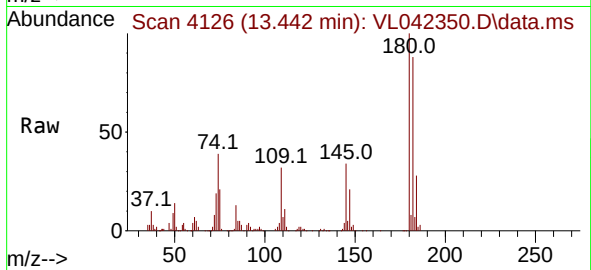
115 42.2 33.4 50.2



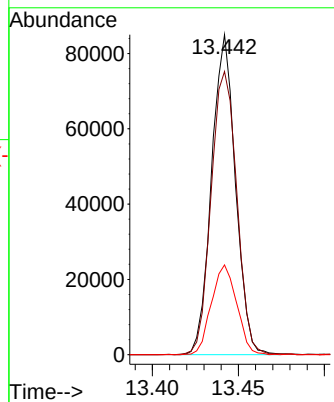
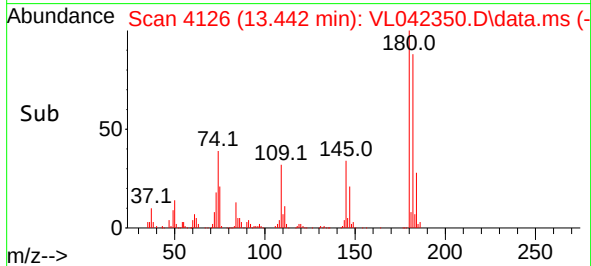


#81
 1,2,4-Trichlorobenzene
 Concen: 2.353 ppbv
 RT: 13.442 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL042350.D
 Acq: 17 Apr 2025 10:17

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002



Tgt Ion:180 Resp: 82156
 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

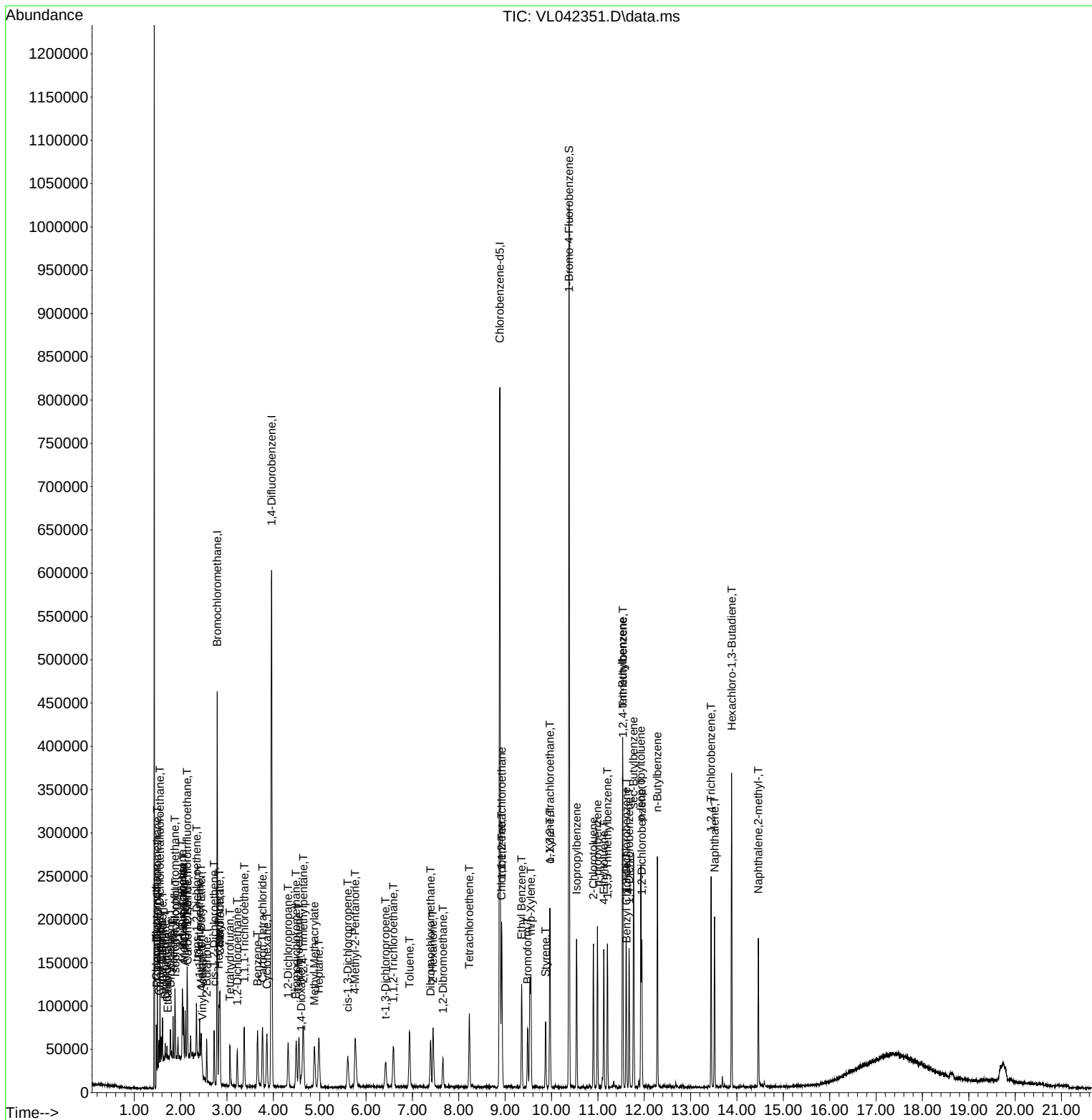
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

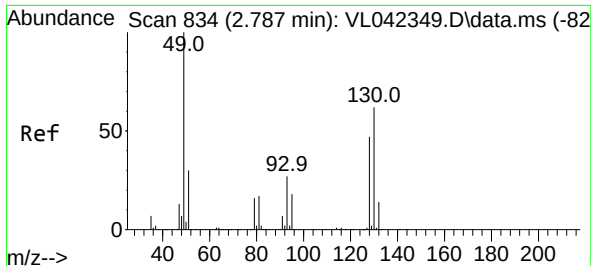
Quant Time: Apr 18 01:27:33 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 01:24:29 2025
 Response via : Initial Calibration

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

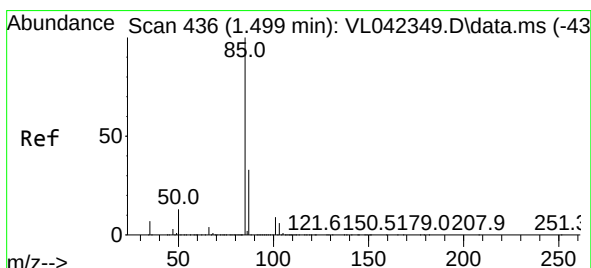
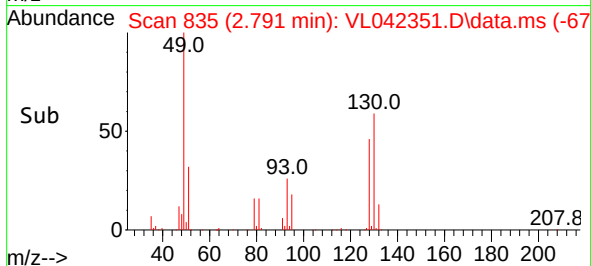
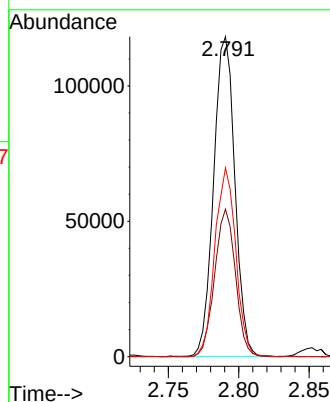
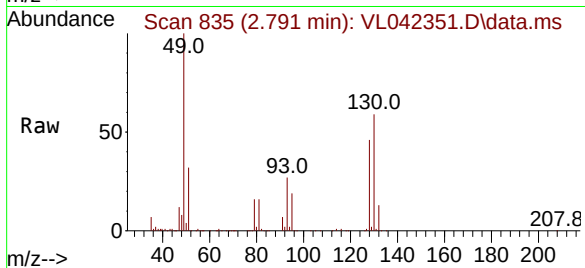
Tgt Ion: 49 Resp: 124177

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

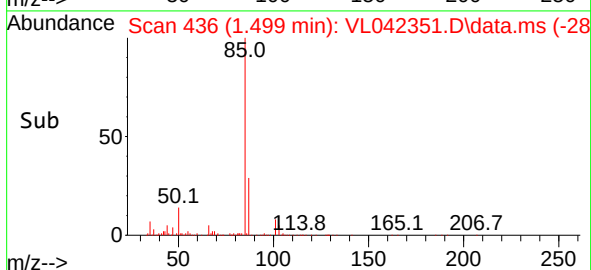
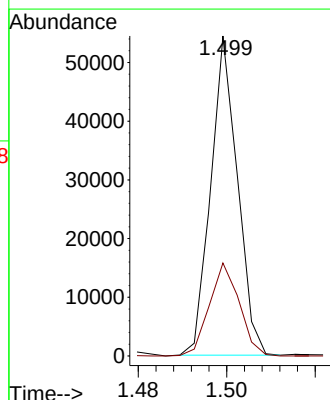
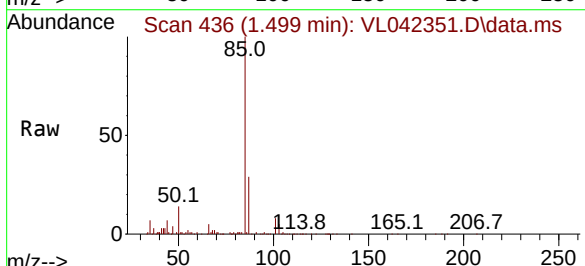
Acq: 17 Apr 2025 10:48

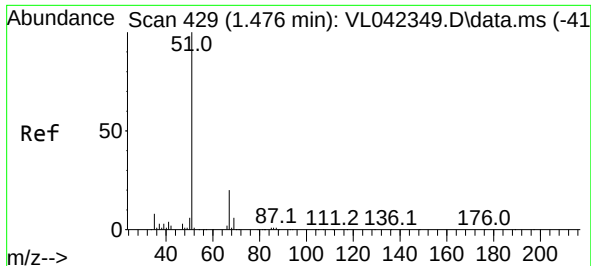
Tgt Ion: 85 Resp: 22816

Ion Ratio Lower Upper

85 100

87 29.1 26.6 39.8

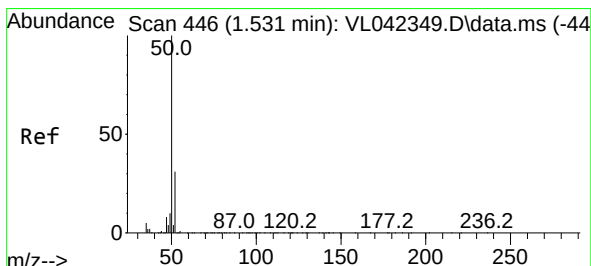
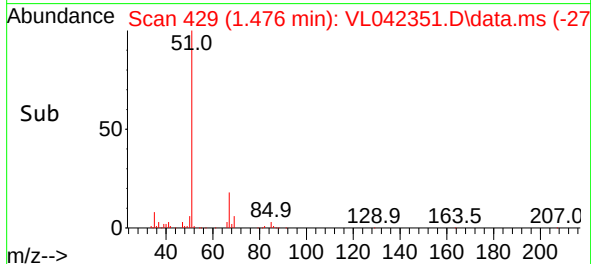
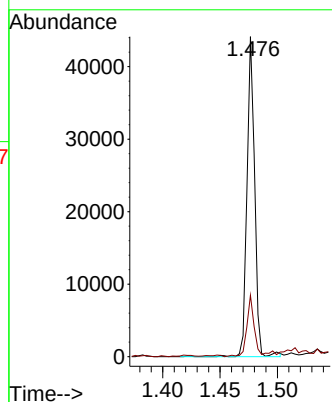
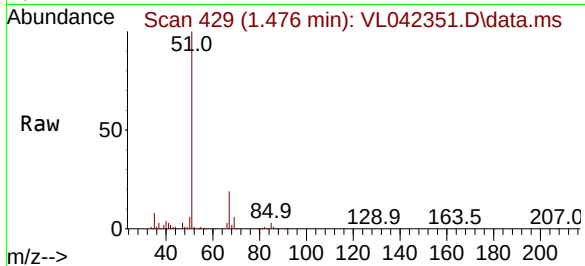




#3
Chlorodifluoromethane
Concen: 0.985 ppbv
RT: 1.476 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

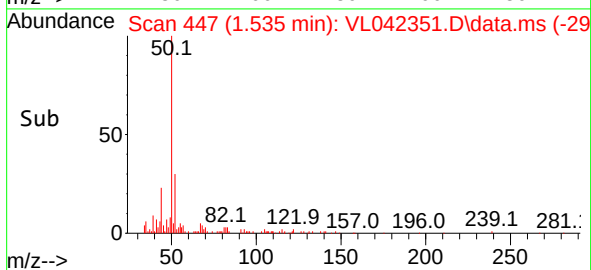
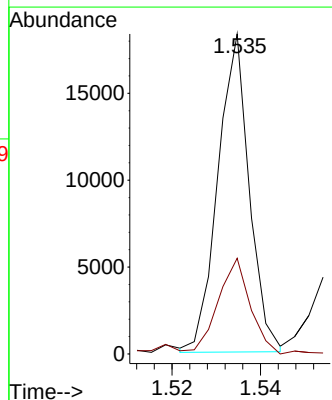
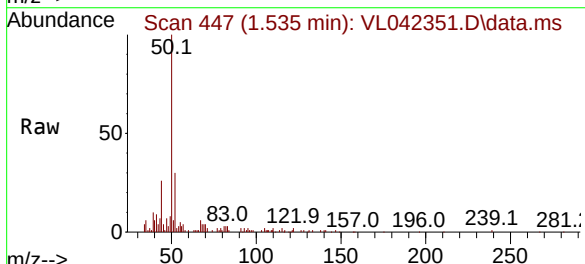
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

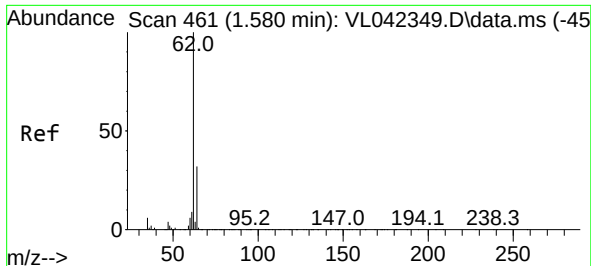
Tgt Ion: 51 Resp: 20573
Ion Ratio Lower Upper
51 100
67 19.1 16.2 24.4



#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

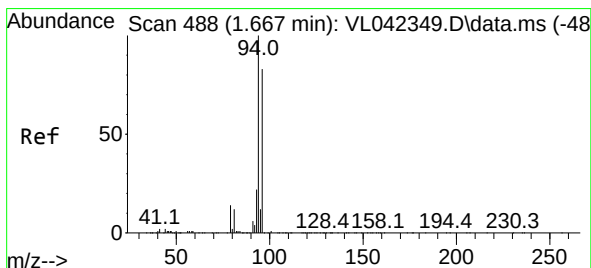
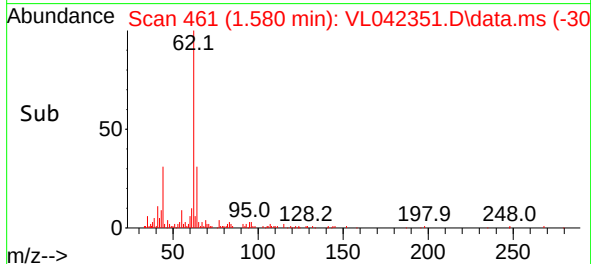
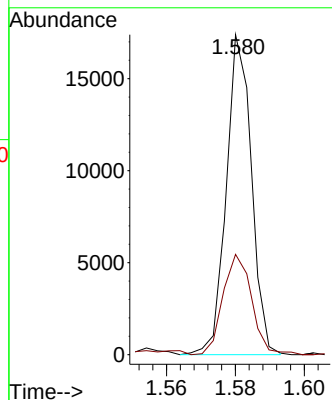
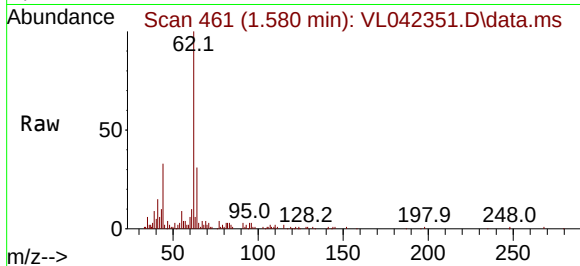




#5
 Vinyl Chloride
 Concen: 0.932 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. 0.000 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48

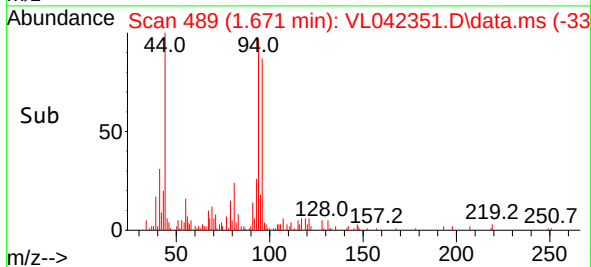
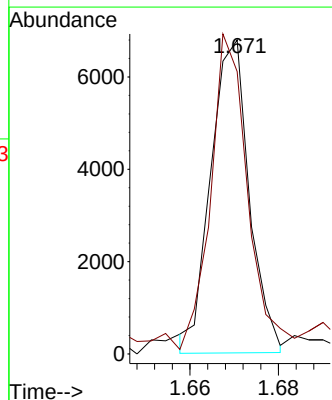
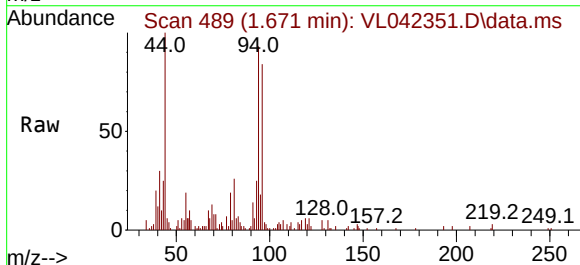
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

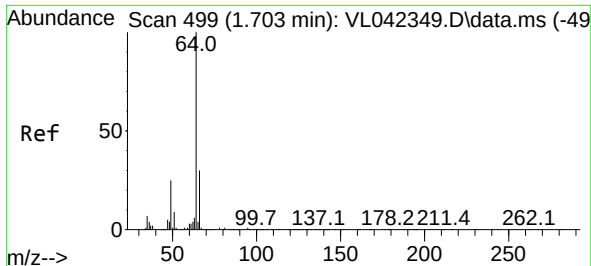
Tgt Ion: 62 Resp: 8807
 Ion Ratio Lower Upper
 62 100
 64 30.5 25.4 38.0



#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

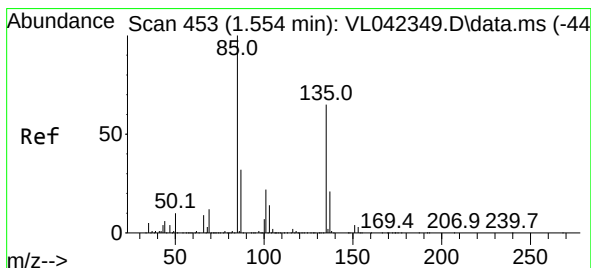
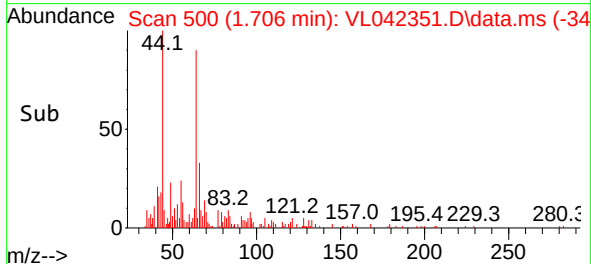
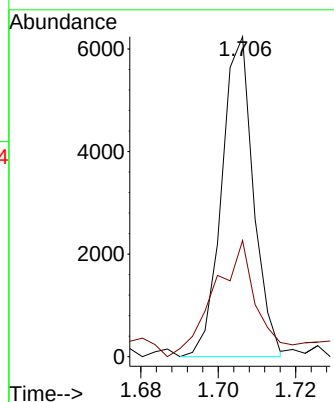
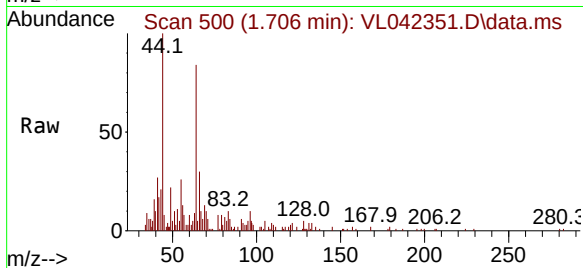




#7
Chloroethane
Concen: 1.041 ppbv
RT: 1.706 min Scan# 500
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

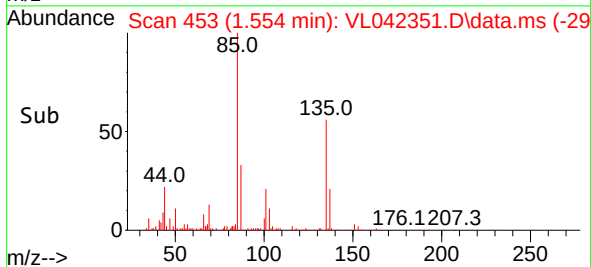
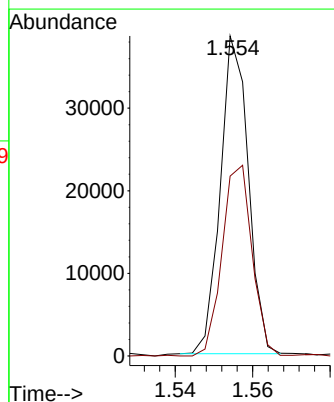
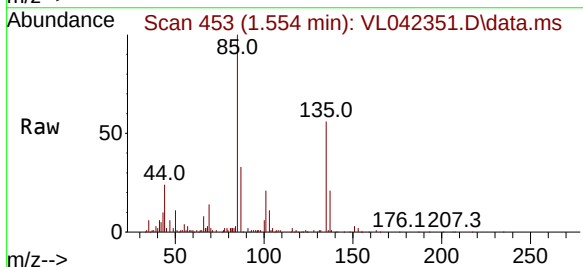
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

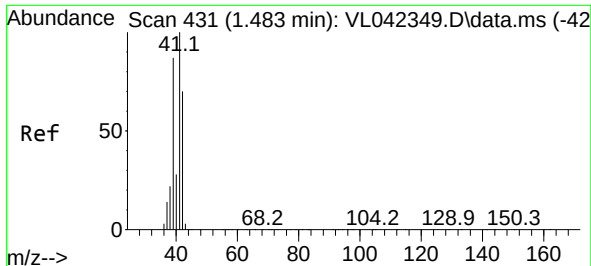
Tgt Ion: 64 Resp: 3559
Ion Ratio Lower Upper
64 100
66 36.3 24.6 37.0



#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 :

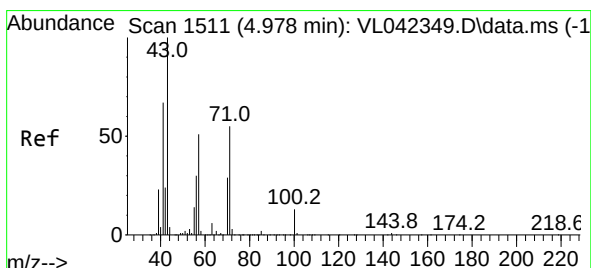
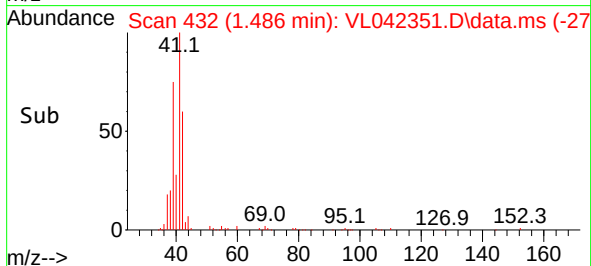
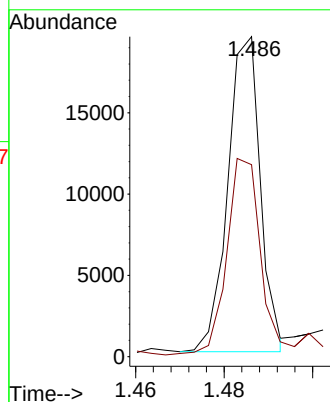
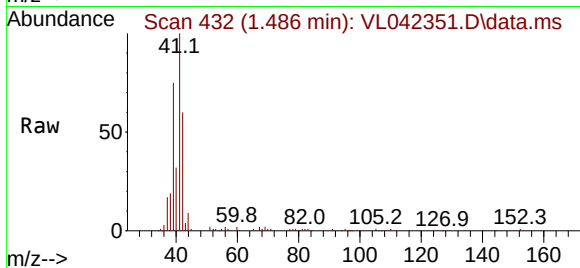
VSTDIC001

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

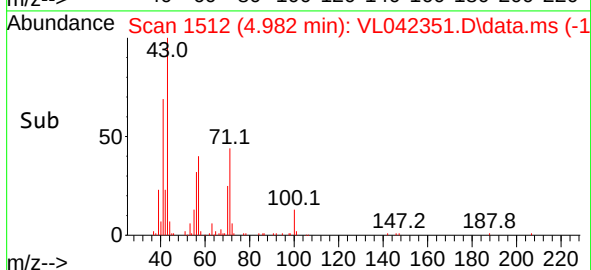
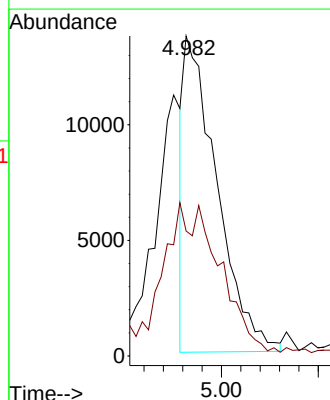
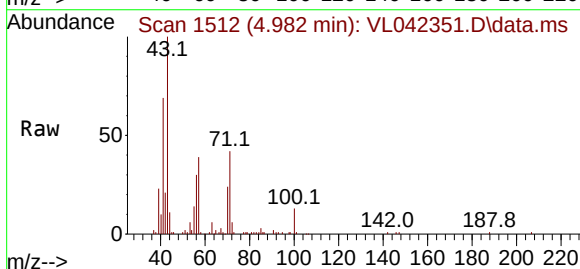
Acq: 17 Apr 2025 10:48

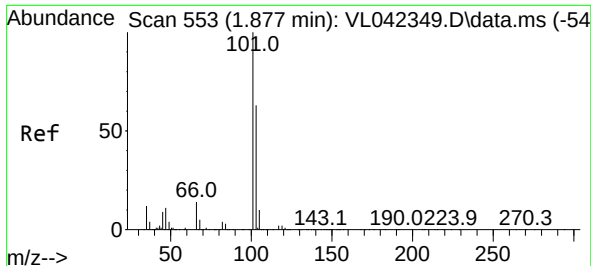
Tgt Ion: 43 Resp: 16193

Ion Ratio Lower Upper

43 100

57 84.7 39.9 59.9#

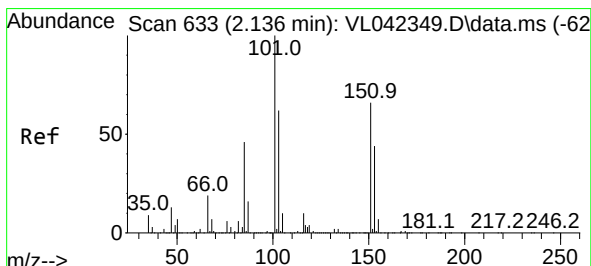
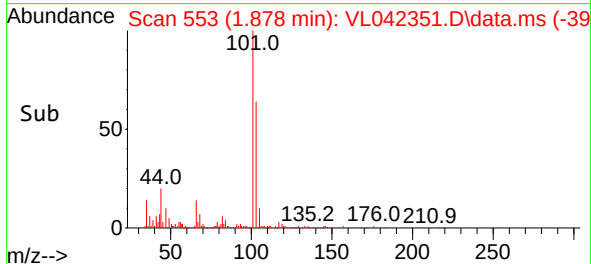
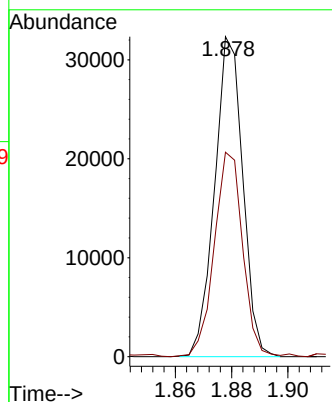
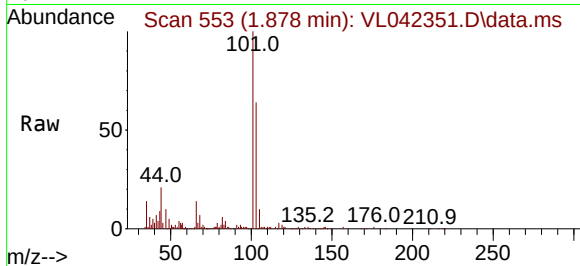




#11
 Trichlorofluoromethane
 Concen: 1.075 ppbv
 RT: 1.878 min Scan# 51
 Delta R.T. 0.000 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48

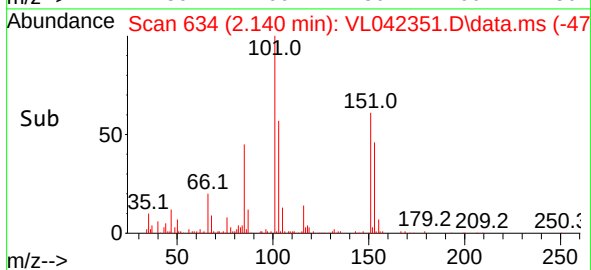
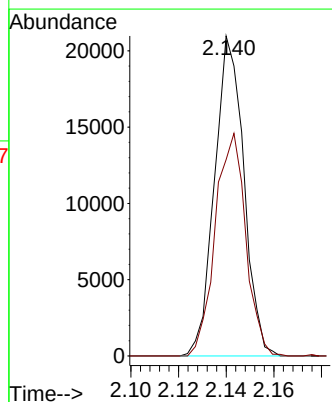
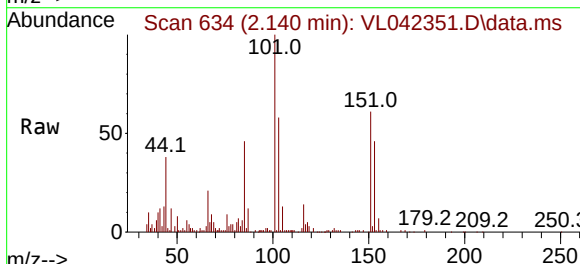
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

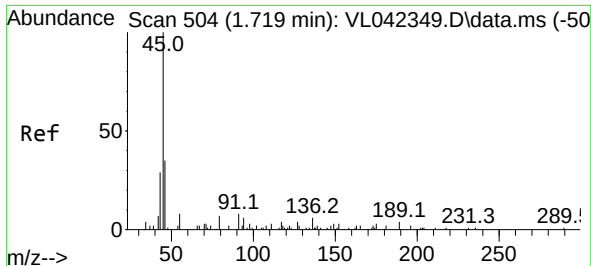
Tgt Ion:101 Resp: 22428
 Ion Ratio Lower Upper
 101 100
 103 63.6 50.1 75.1



#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

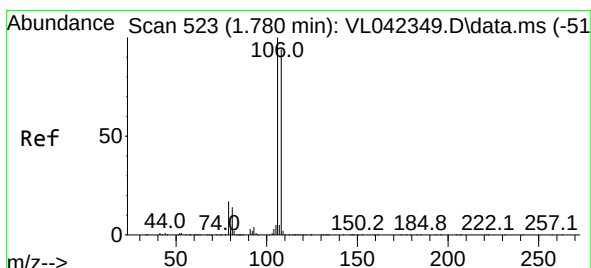
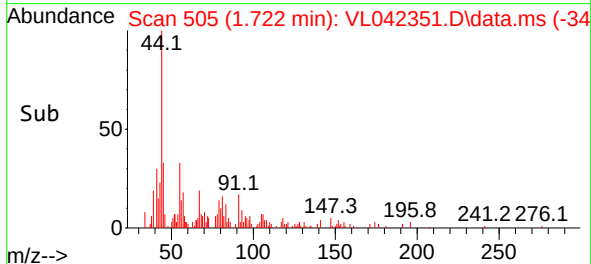
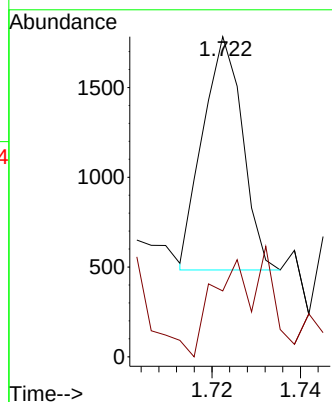
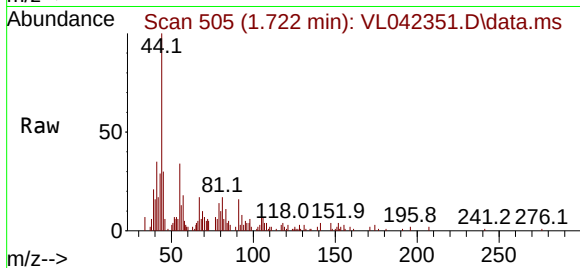




#13
Ethanol
Concen: 1.042 ppbv
RT: 1.722 min Scan# 504
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

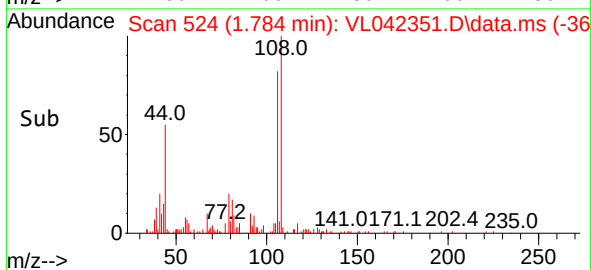
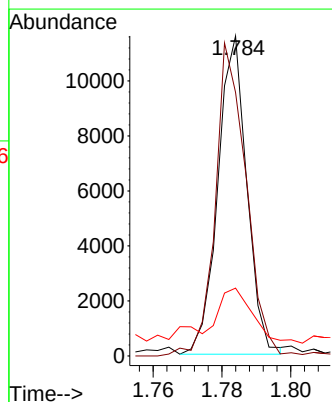
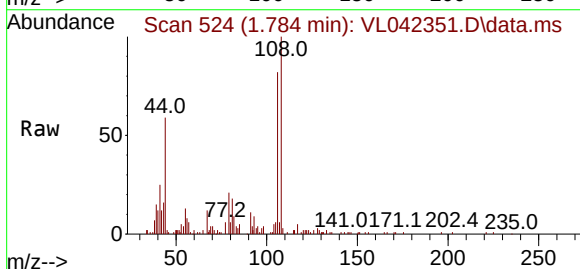
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

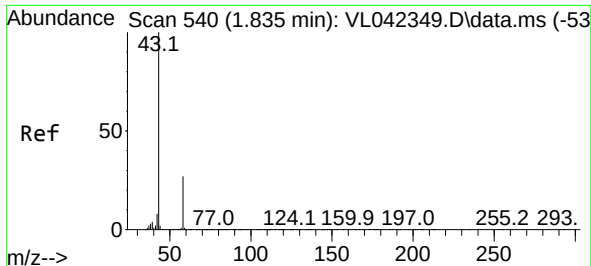
Tgt Ion: 45 Resp: 810
Ion Ratio Lower Upper
45 100
46 95.8 21.9 87.7#



#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 :

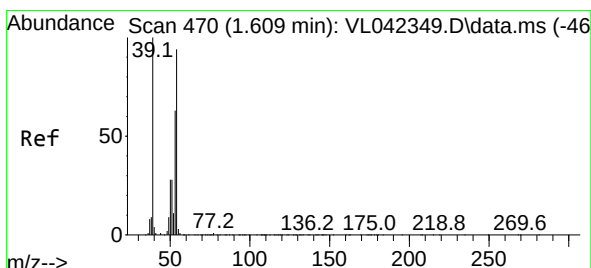
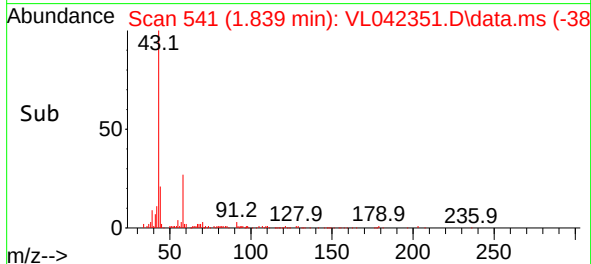
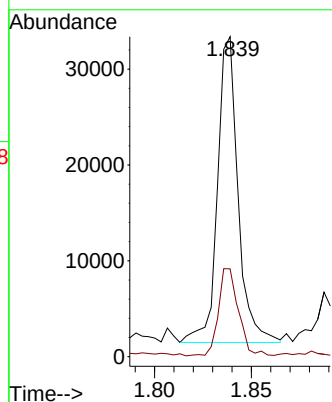
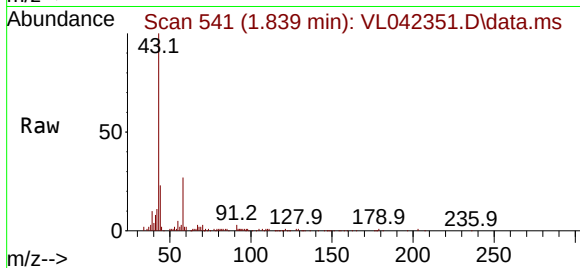
VSTDIC001

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

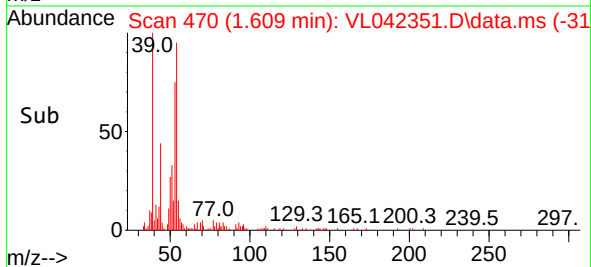
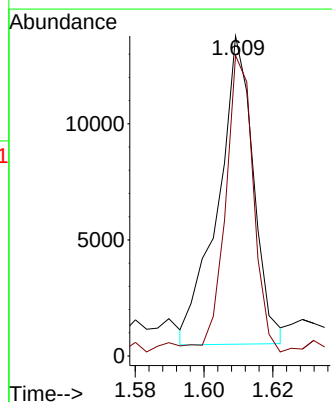
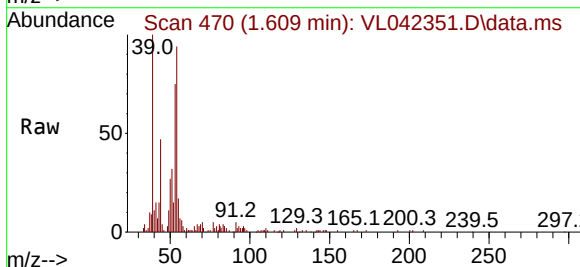
Acq: 17 Apr 2025 10:48

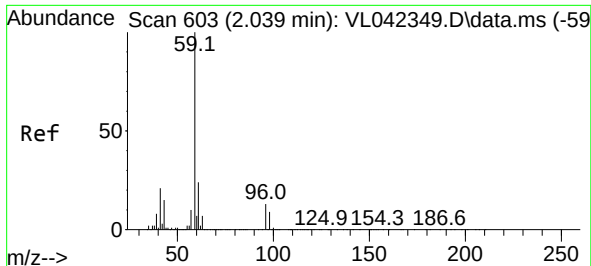
Tgt Ion: 39 Resp: 9495

Ion Ratio Lower Upper

39 100

54 77.6 64.9 97.3

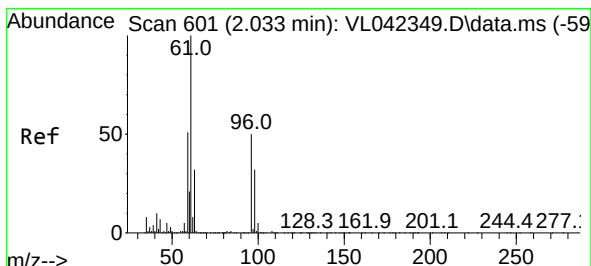
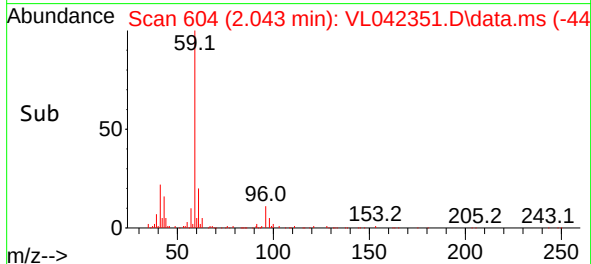
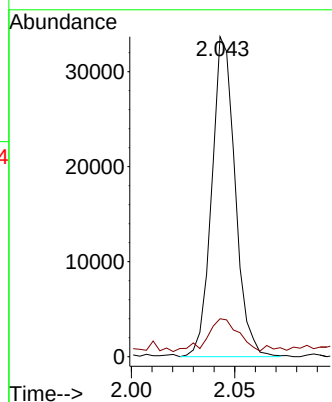
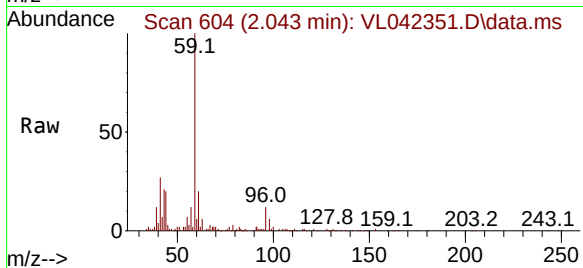




#17
tert-Butyl alcohol
Concen: 1.051 ppbv
RT: 2.043 min Scan# 603
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

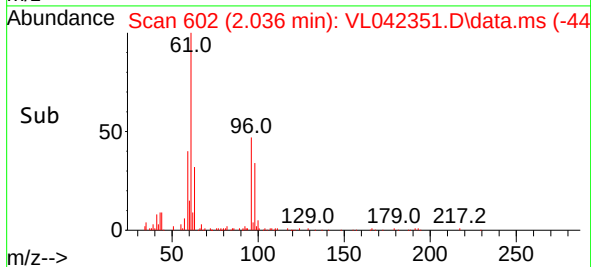
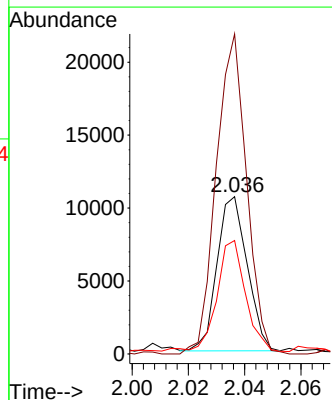
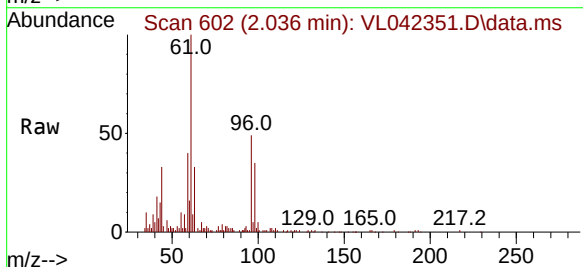
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

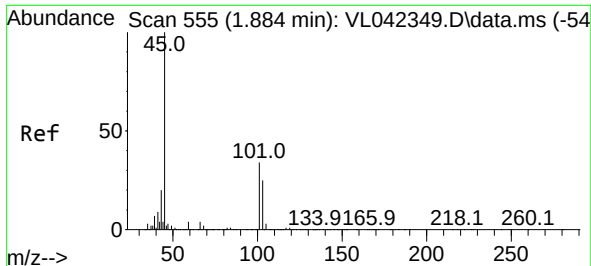
Tgt Ion: 59 Resp: 26477
Ion Ratio Lower Upper
59 100
57 14.6 8.7 13.1#



#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

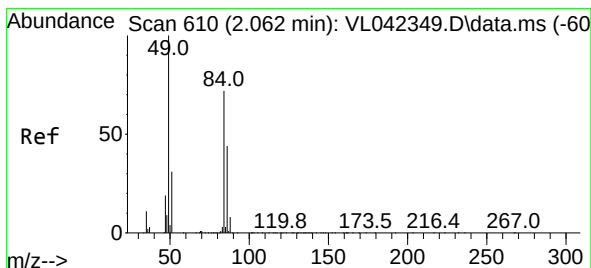
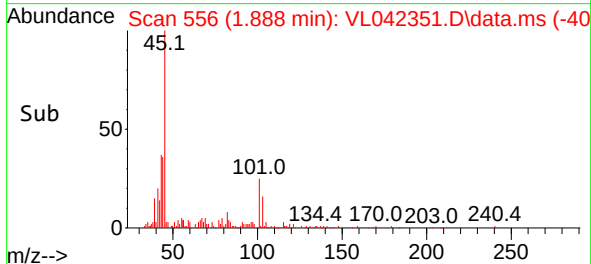
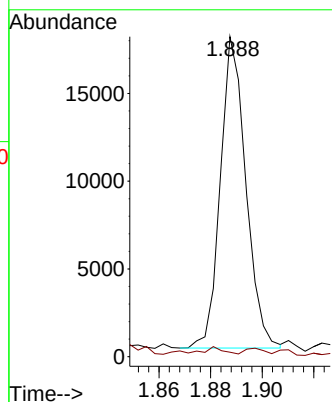
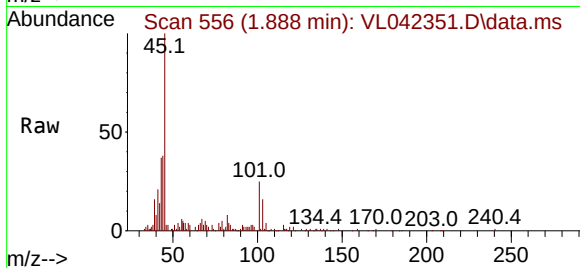




#19
Isopropyl Alcohol
Concen: 1.078 ppbv
RT: 1.888 min Scan# 511
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

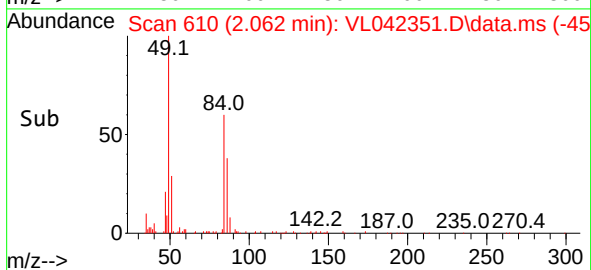
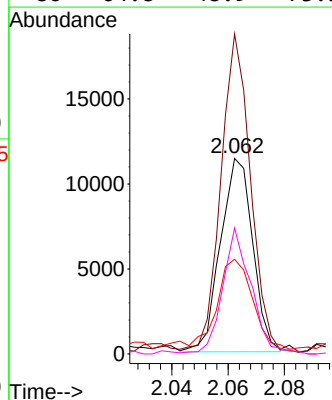
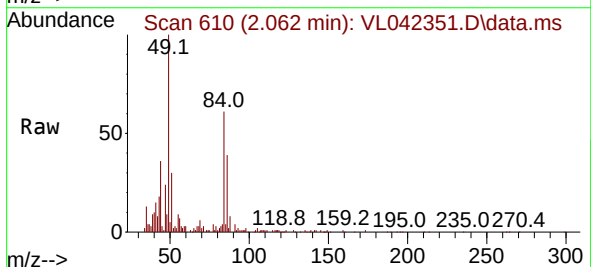
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

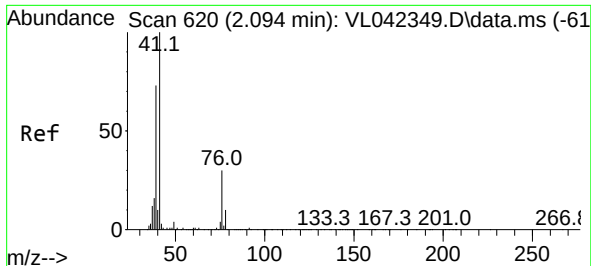
Tgt Ion: 45 Resp: 12175
Ion Ratio Lower Upper
45 100
58 3.8 34.5 51.7#



#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

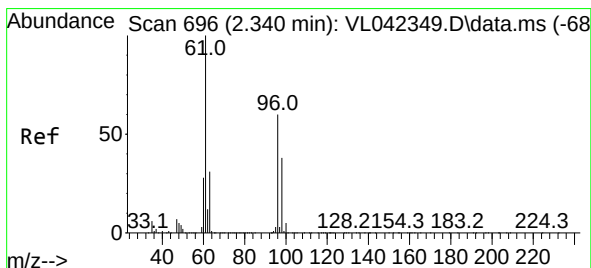
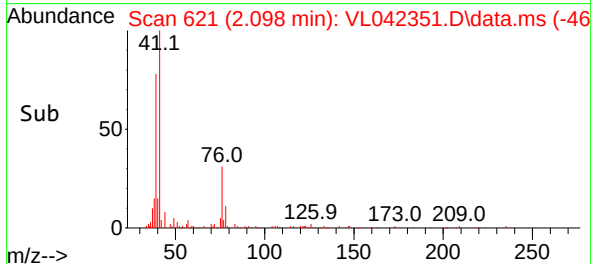
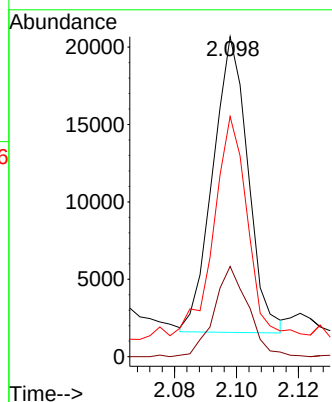
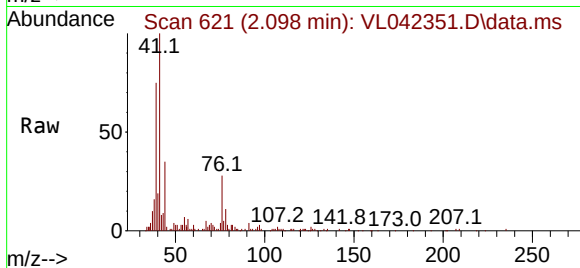




#21
 Allyl Chloride
 Concen: 1.073 ppbv
 RT: 2.098 min Scan# 61
 Delta R.T. 0.004 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48

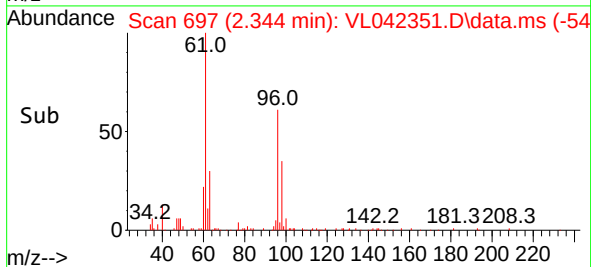
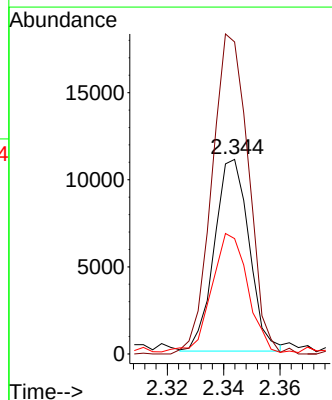
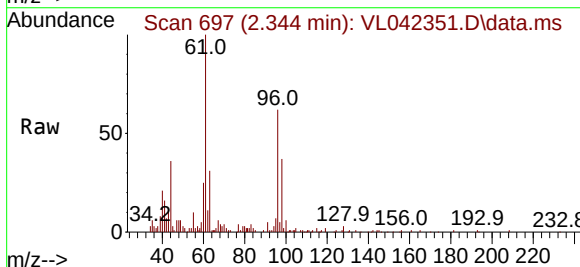
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

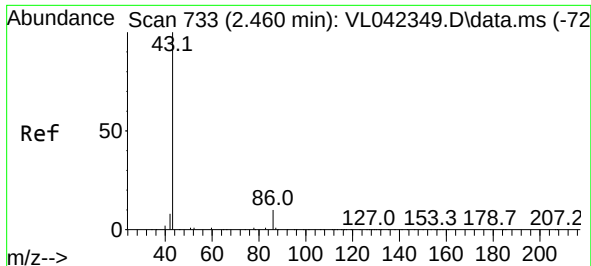
Tgt Ion: 41 Resp: 15057
 Ion Ratio Lower Upper
 41 100
 76 29.8 24.8 37.2
 39 86.1 60.6 90.8



#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

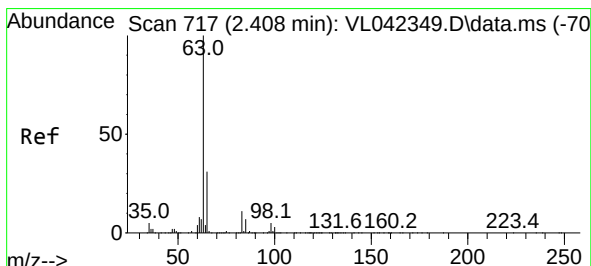
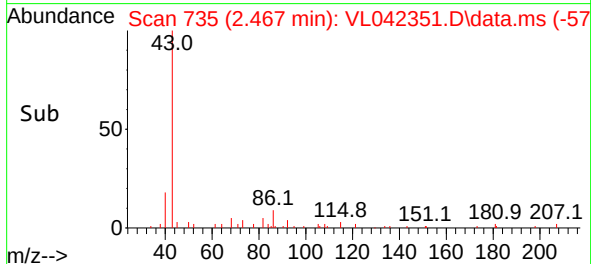
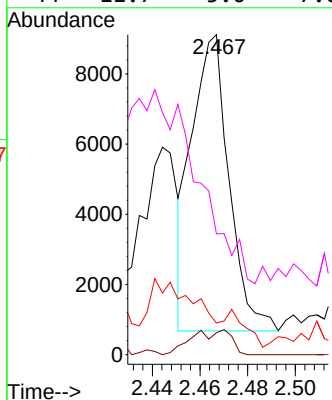
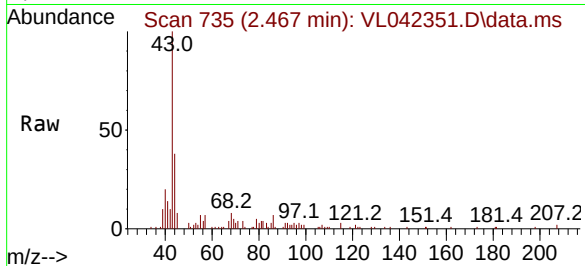




#23
 Vinyl Acetate
 Concen: 1.122 ppbv
 RT: 2.467 min Scan# 717
 Delta R.T. 0.007 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48

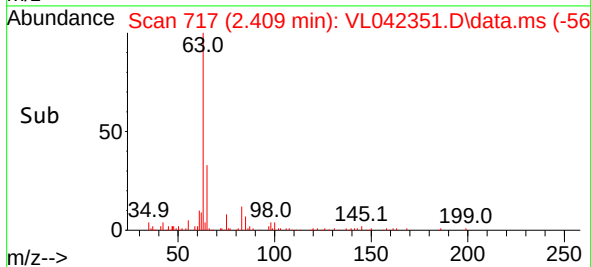
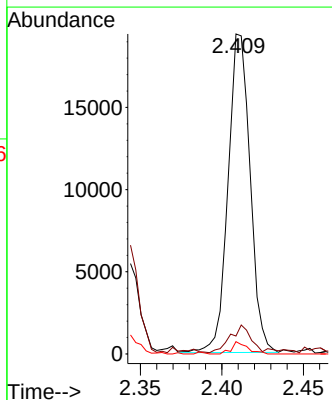
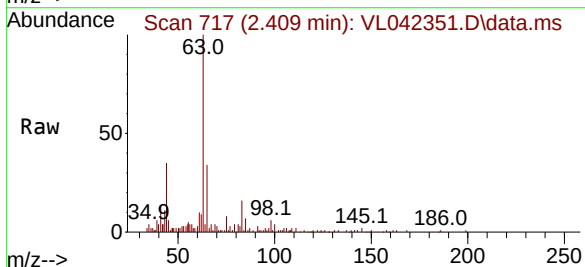
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

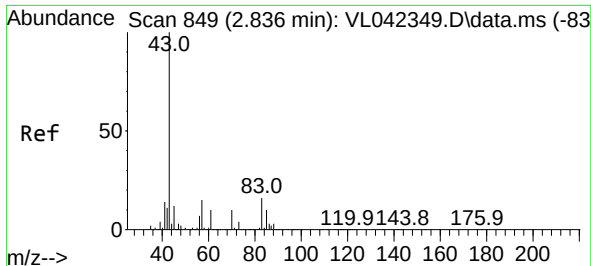
Tgt Ion:	43	Resp:	9234
Ion	Ratio	Lower	Upper
43	100		
86	7.4	6.5	9.7
42	4.6	7.8	11.8#
44	11.7	5.0	7.6#



#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



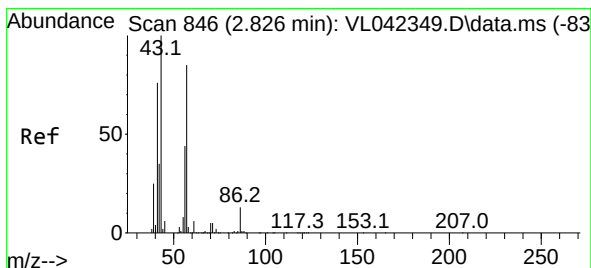
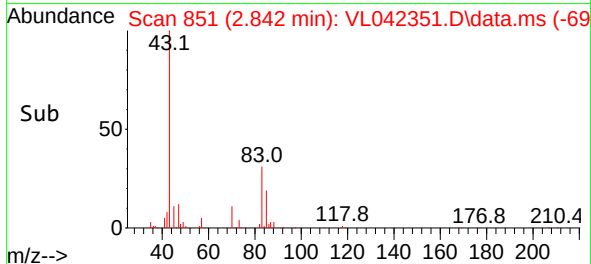
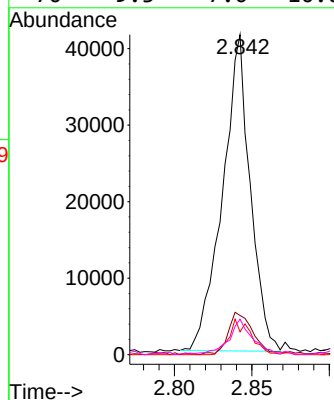
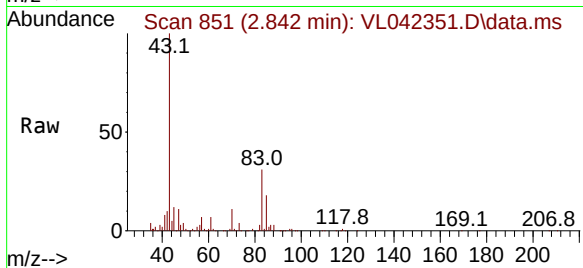


#25
Ethyl Acetate
Concen: 1.027 ppbv
RT: 2.842 min Scan# 849
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

Tgt Ion: 43 Resp: 51494

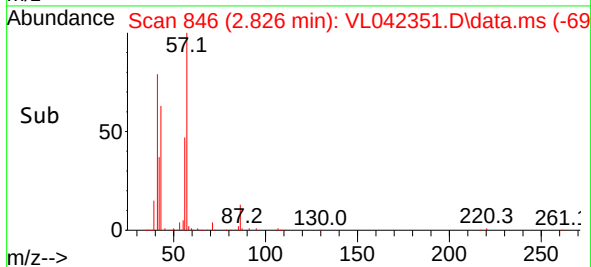
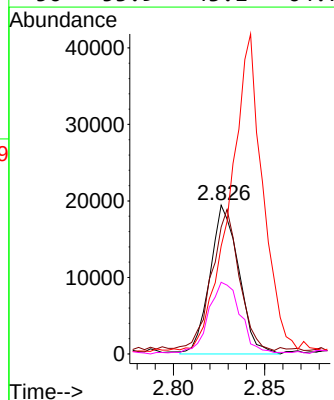
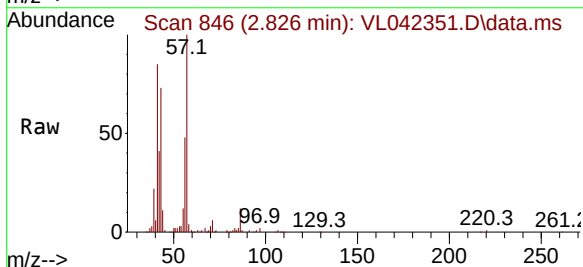
Ion	Ratio	Lower	Upper
43	100		
45	13.1	8.3	12.5#
61	9.0	7.3	10.9
70	9.3	7.0	10.6

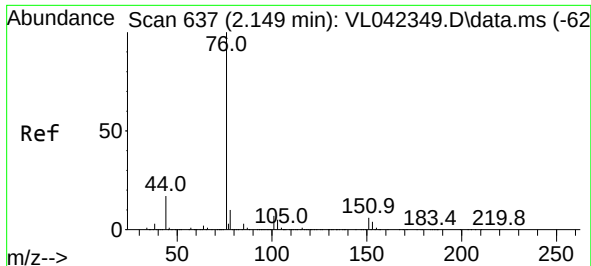


#26
Hexane
Concen: 1.053 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

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

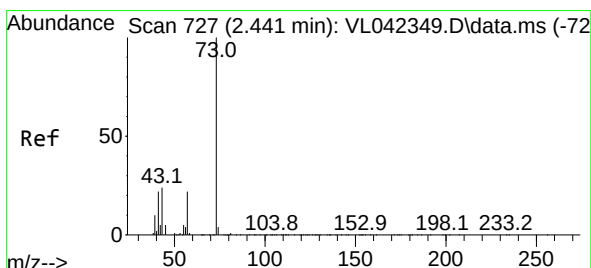
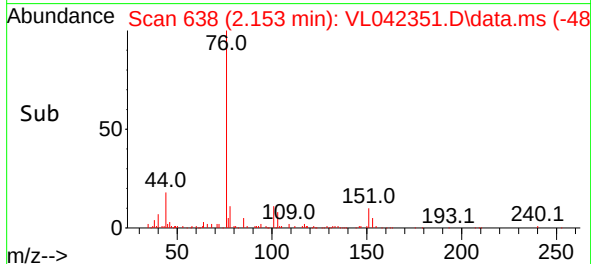
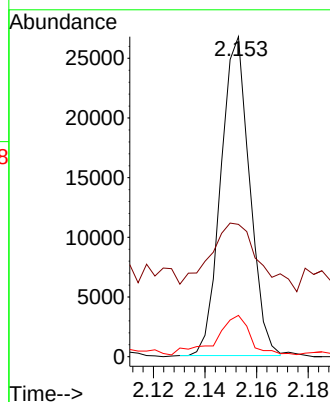
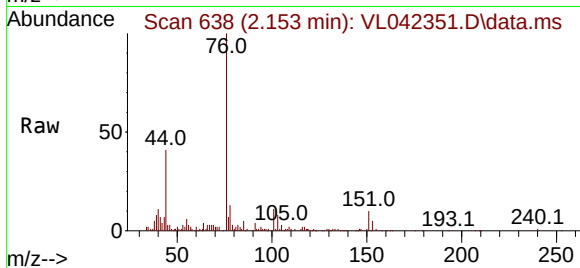
Tgt Ion: 76 Resp: 20739

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

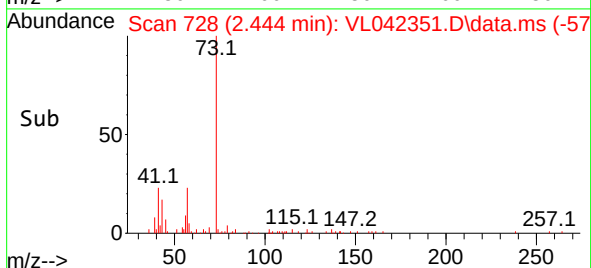
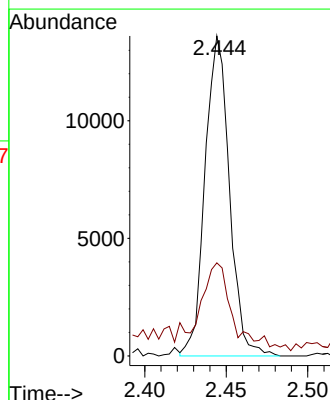
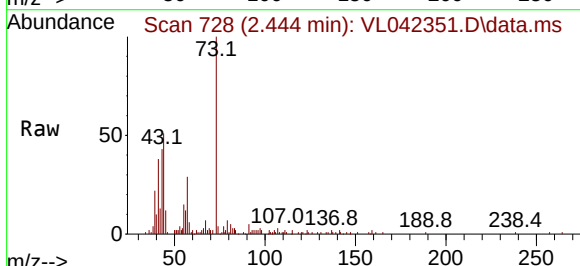
Acq: 17 Apr 2025 10:48

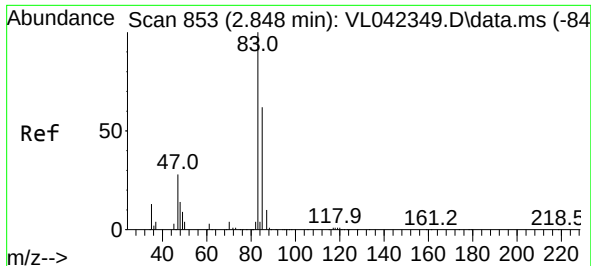
Tgt Ion: 73 Resp: 14164

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 :

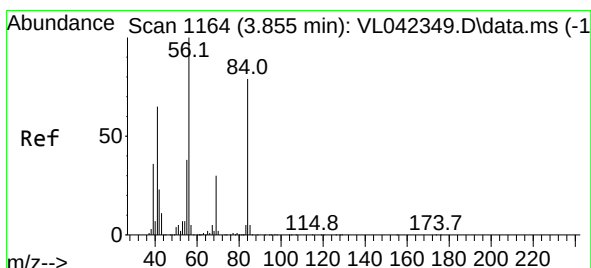
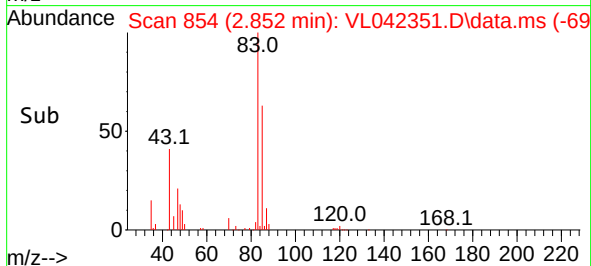
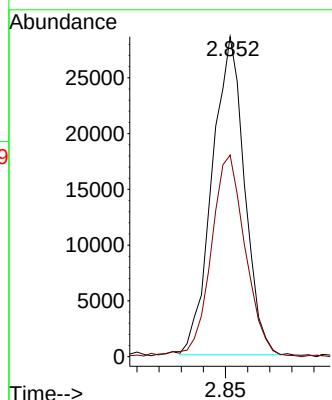
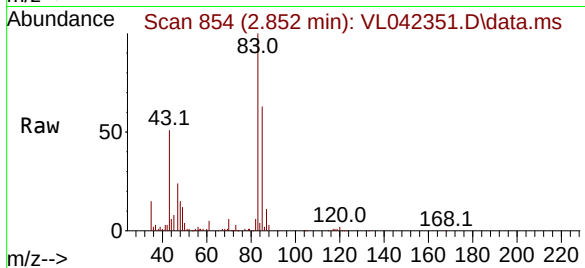
VSTDIC001

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

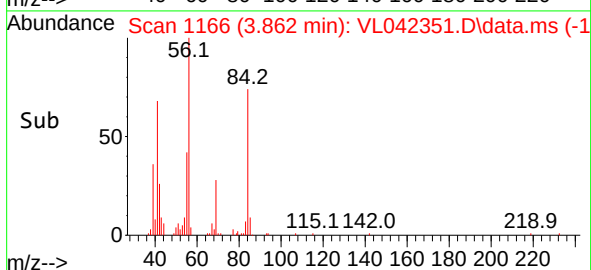
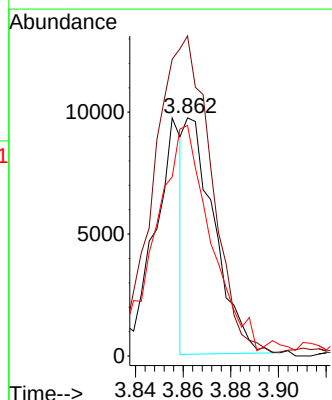
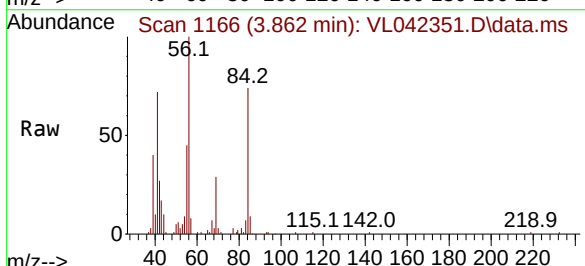
Tgt Ion: 84 Resp: 8430

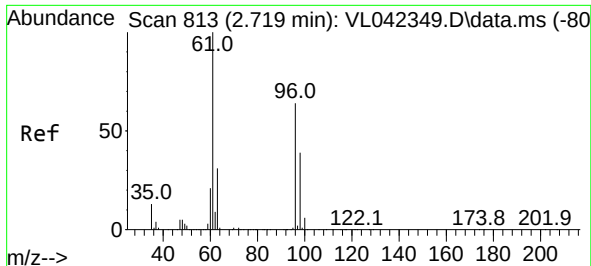
Ion Ratio Lower Upper

84 100

56 263.5 101.0 151.4#

41 167.0 67.4 101.0#

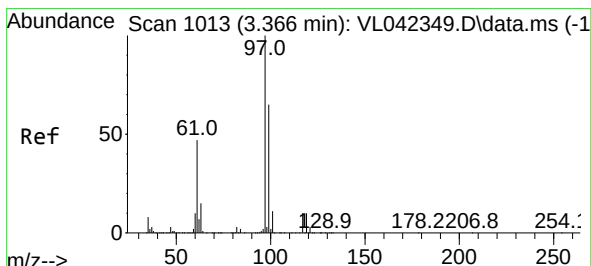
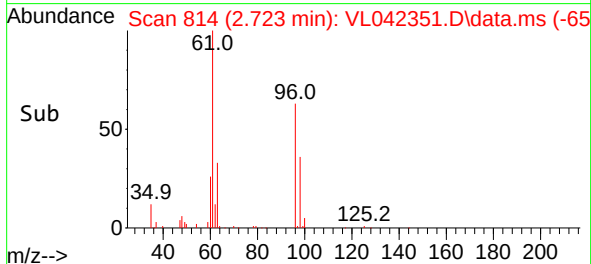
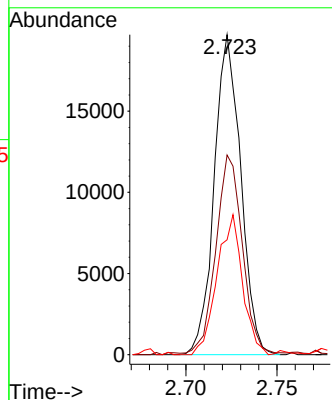
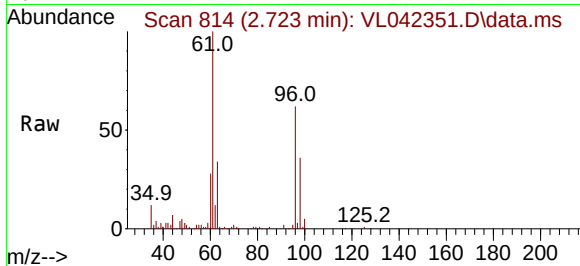




#31
 cis-1,2-Dichloroethene
 Concen: 1.032 ppbv
 RT: 2.723 min Scan# 813
 Delta R.T. 0.004 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48

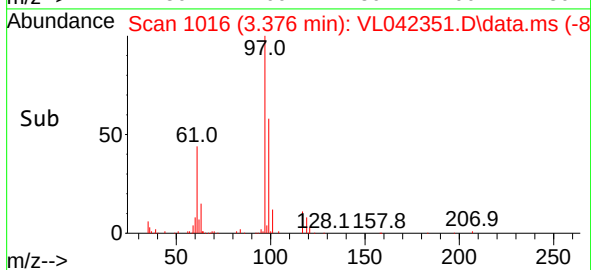
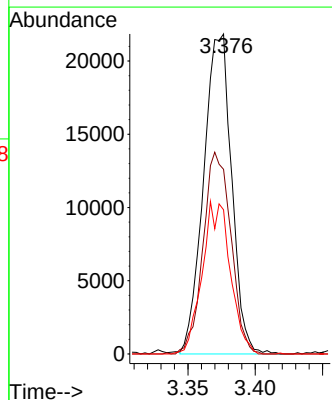
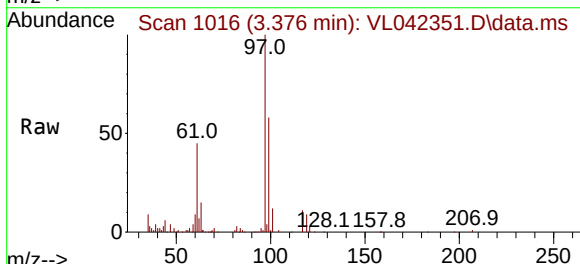
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

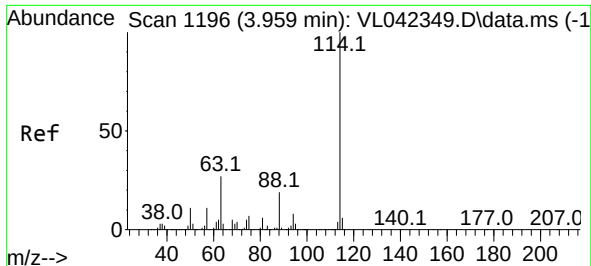
Tgt Ion: 61 Resp: 19904
 Ion Ratio Lower Upper
 61 100
 96 61.9 50.8 76.2
 98 35.9 30.9 46.3



#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

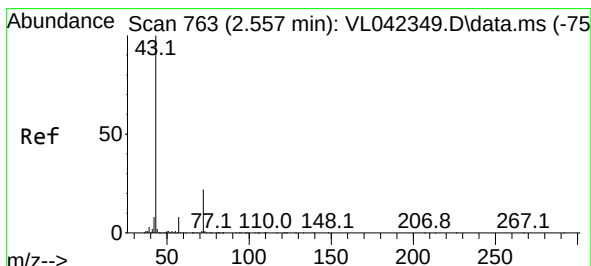
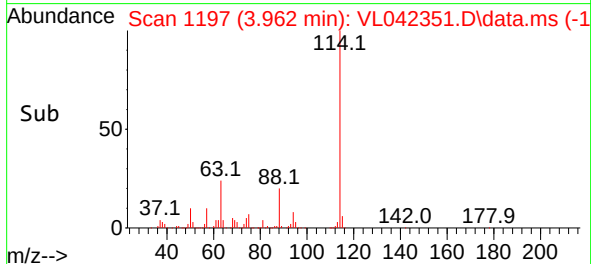
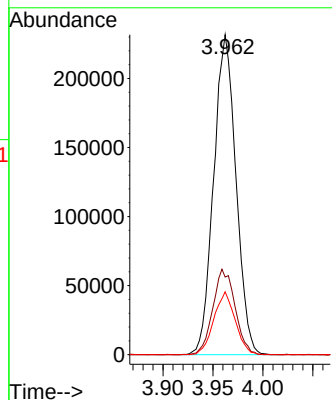
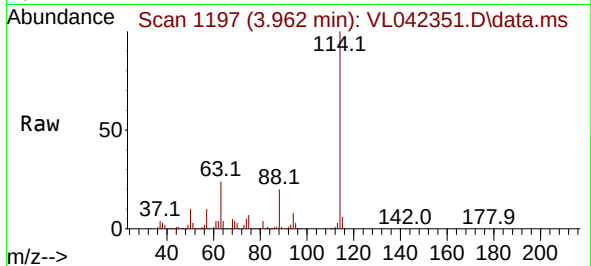




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1196
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

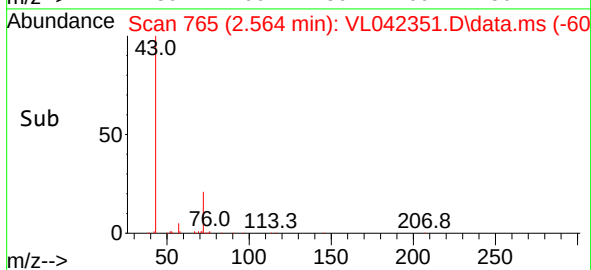
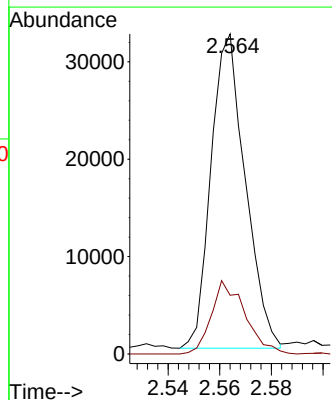
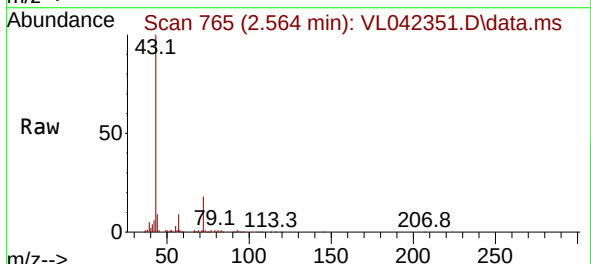
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

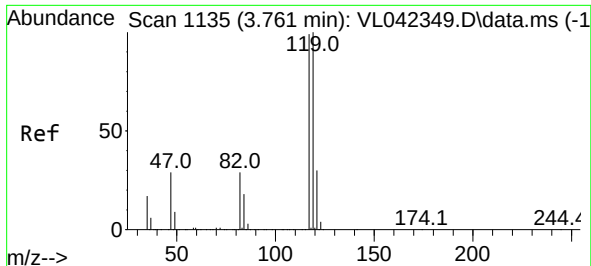
Tgt Ion:114 Resp: 359907
Ion Ratio Lower Upper
114 100
63 26.7 21.8 32.6
88 18.8 15.5 23.3



#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

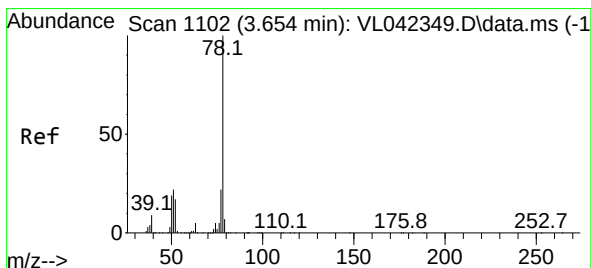
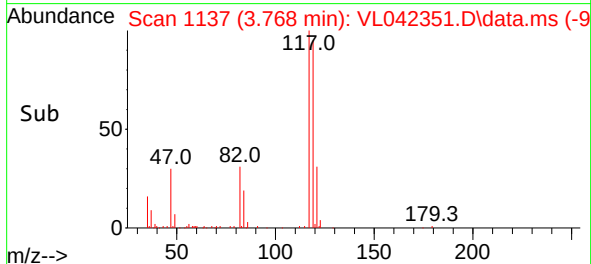
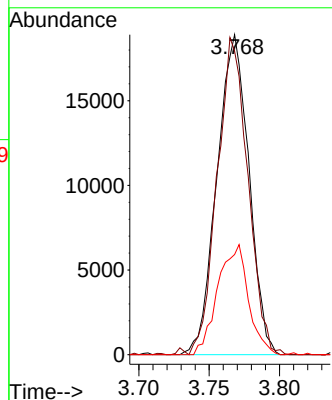
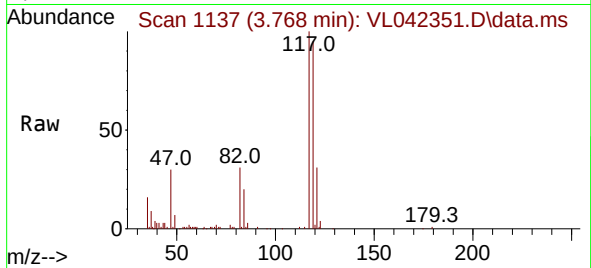




#35
Carbon Tetrachloride
Concen: 0.917 ppbv
RT: 3.768 min Scan# 1137
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

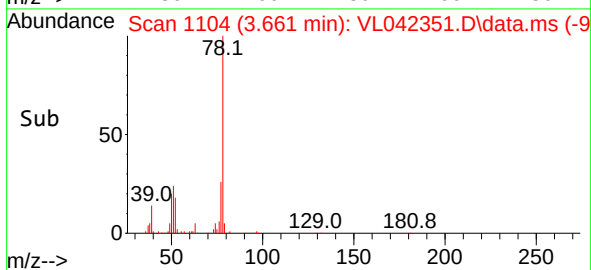
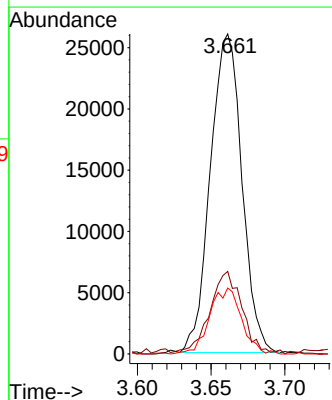
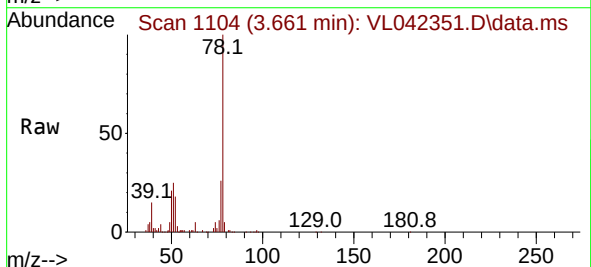
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

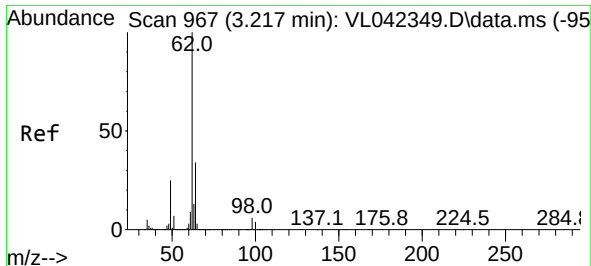
Tgt Ion: 117 Resp: 29875
Ion Ratio Lower Upper
117 100
119 93.3 80.5 120.7
121 31.3 24.2 36.2



#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_L

ClientSampleId :

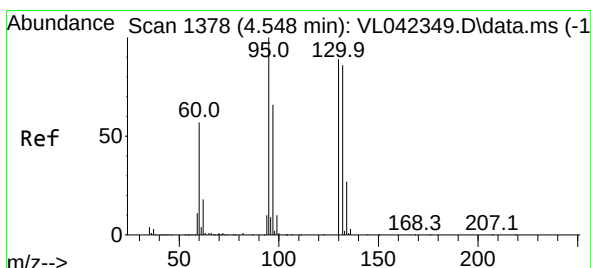
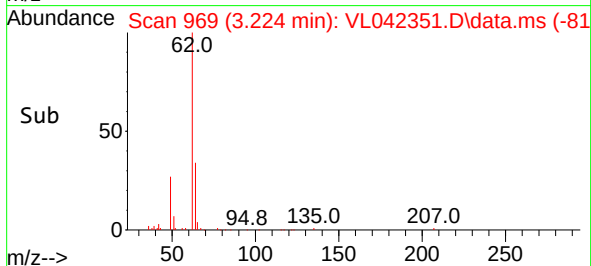
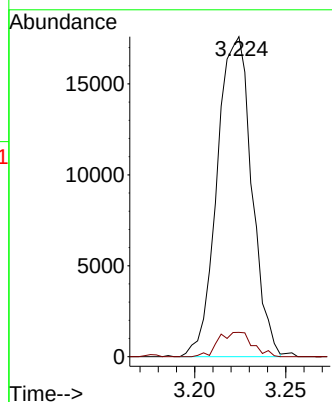
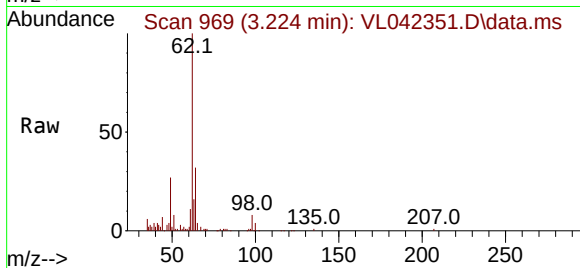
VSTDIC001

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

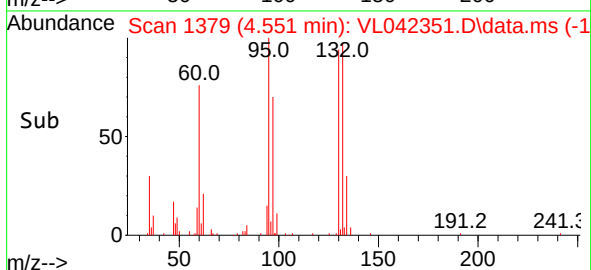
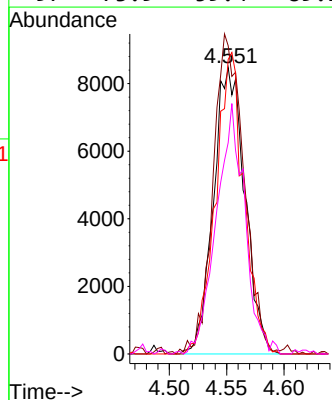
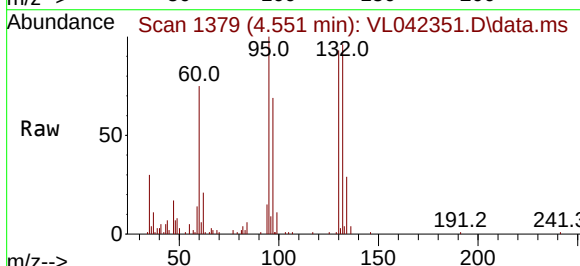
Ion Ratio Lower Upper

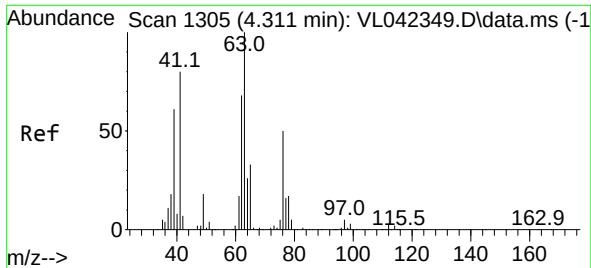
130 100

95 106.6 89.8 134.6

132 102.9 77.7 116.5

97 73.9 59.4 89.2

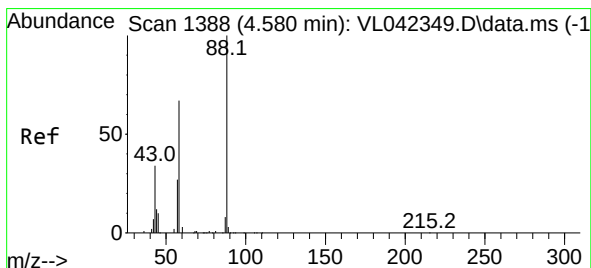
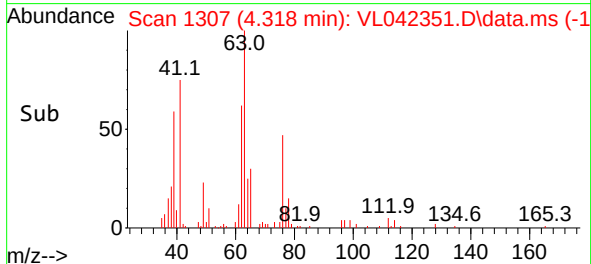
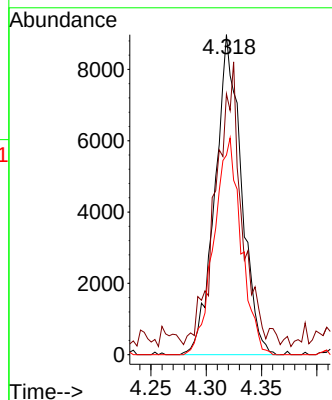
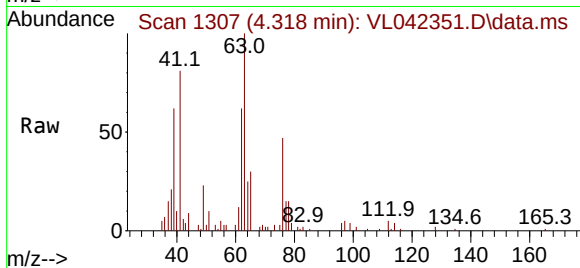




#39
 1,2-Dichloropropane
 Concen: 1.027 ppbv
 RT: 4.318 min Scan# 11
 Delta R.T. 0.007 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48

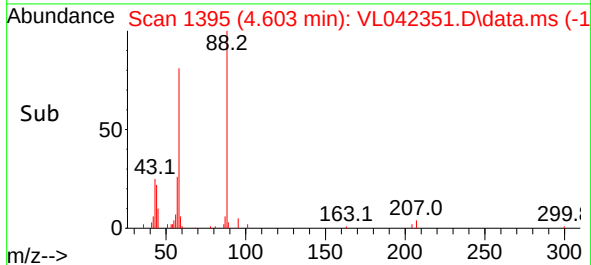
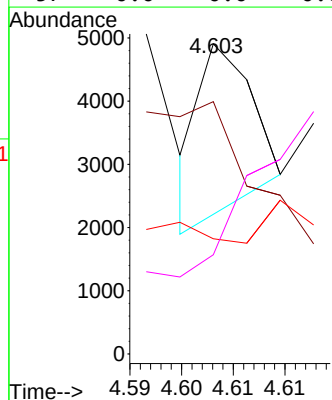
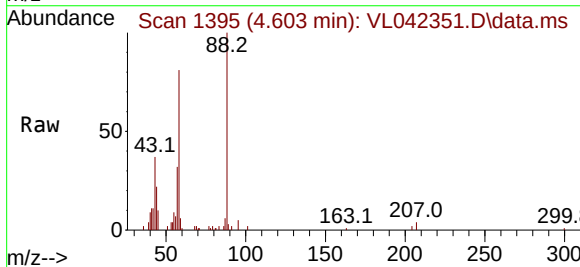
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

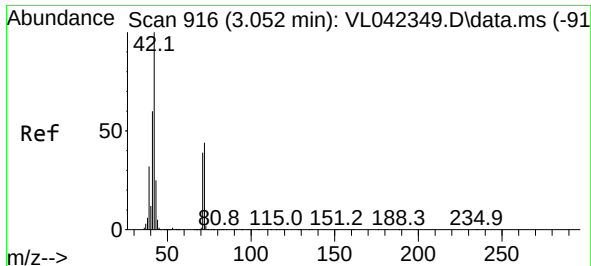
Tgt Ion:	63	Resp:	14866
Ion	Ratio	Lower	Upper
63	100		
41	78.3	64.2	96.2
62	62.3	54.3	81.5



#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

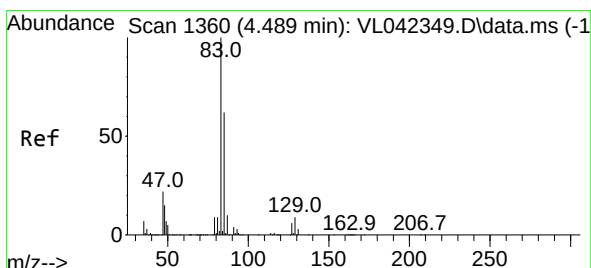
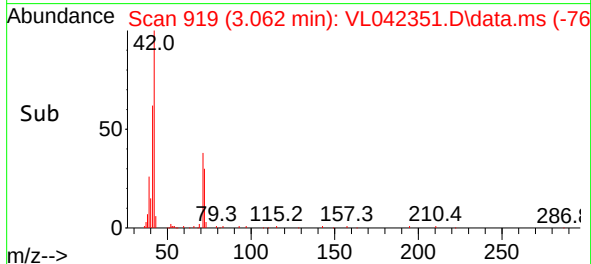
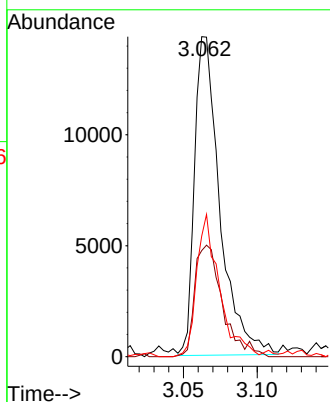
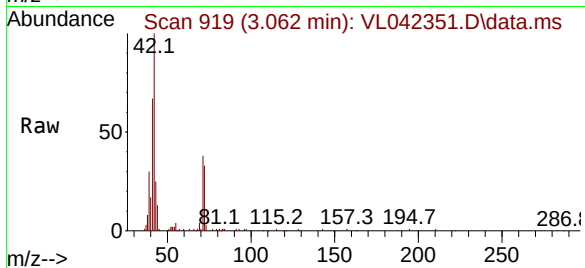
Tgt Ion: 42 Resp: 17259

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

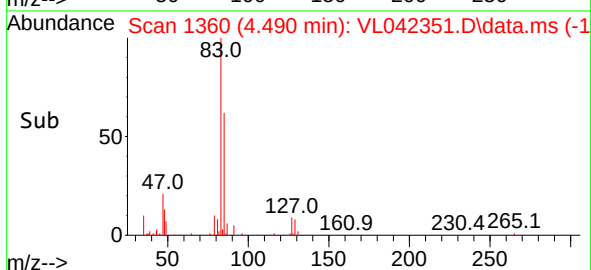
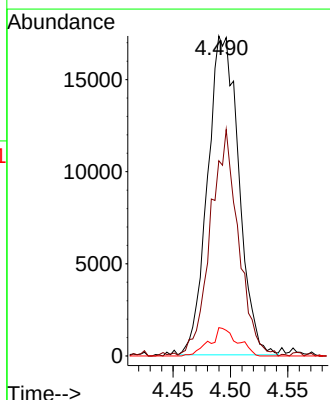
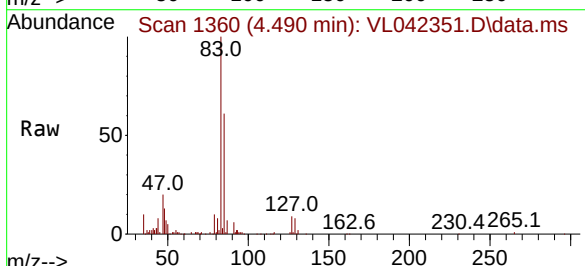
Tgt Ion: 83 Resp: 32721

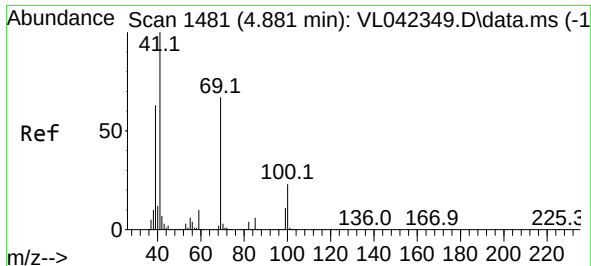
Ion Ratio Lower Upper

83 100

85 61.2 49.7 74.5

127 8.9 5.1 7.7#

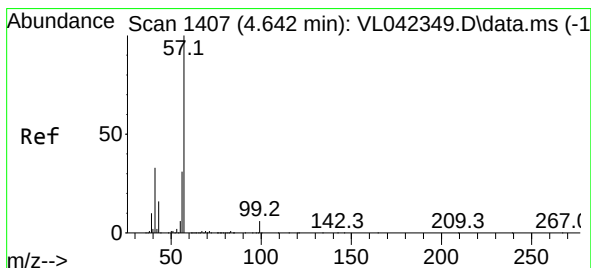
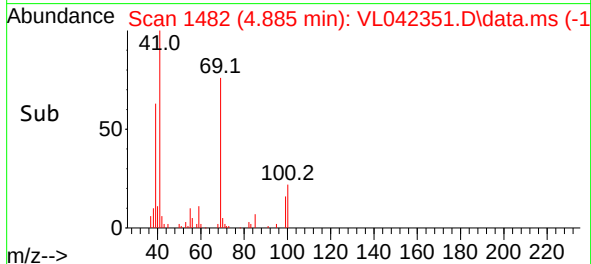
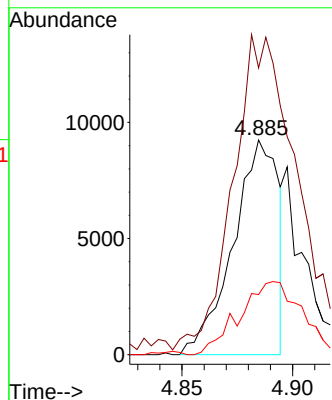
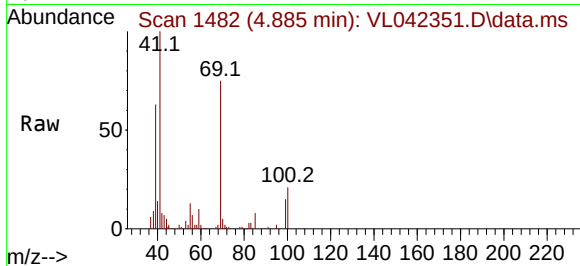




#43
Methyl Methacrylate
Concen: 0.751 ppbv
RT: 4.885 min Scan# 1481
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

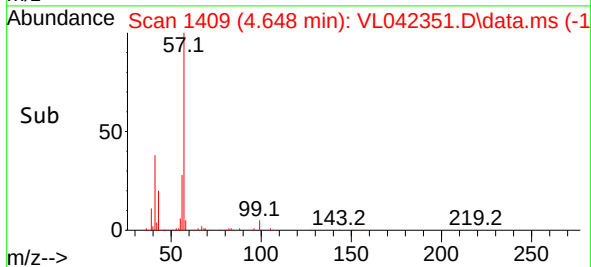
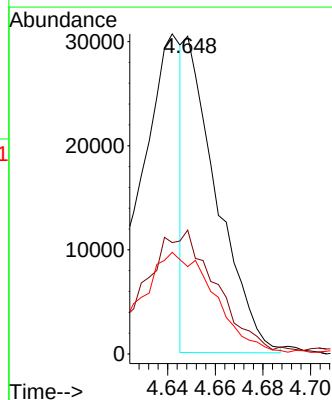
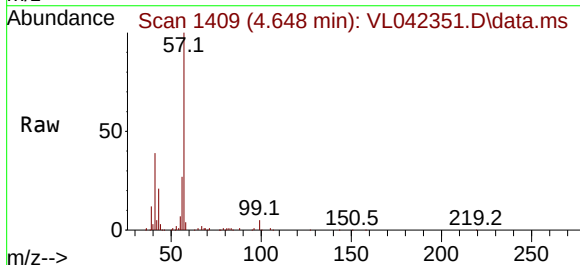
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

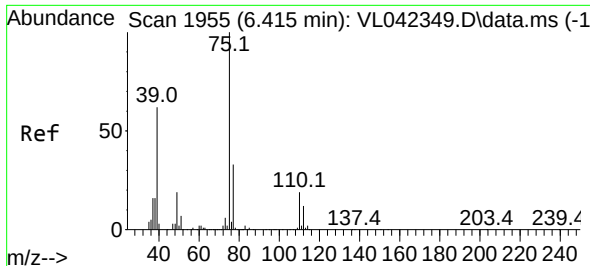
Tgt Ion: 69 Resp: 13084
Ion Ratio Lower Upper
69 100
41 213.4 118.6 177.8#
100 0.0 28.2 42.2#



#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 :

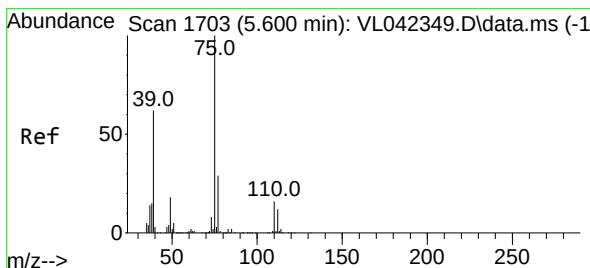
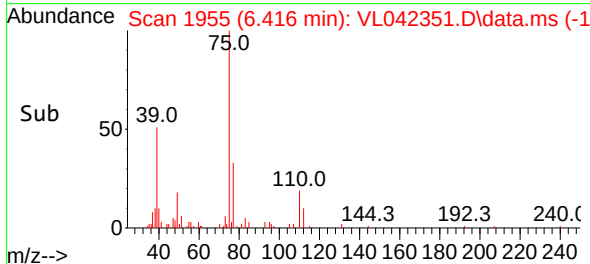
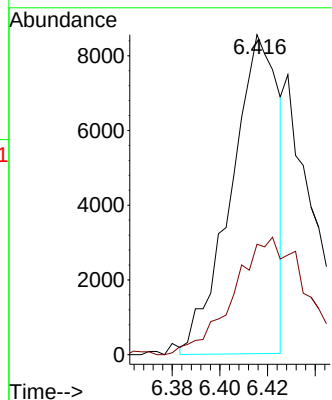
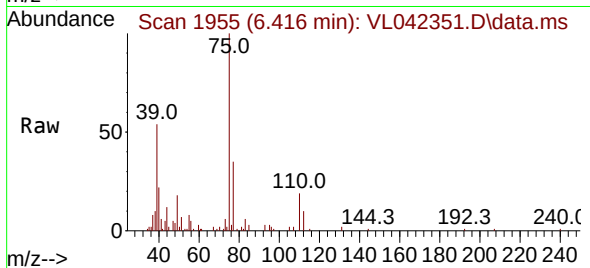
VSTDIC001

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

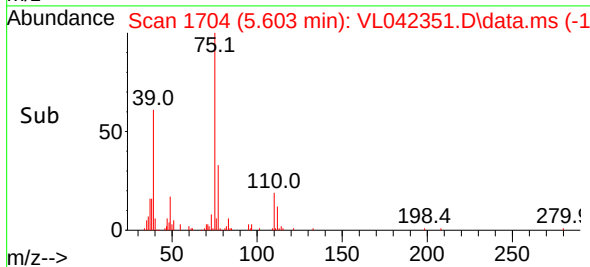
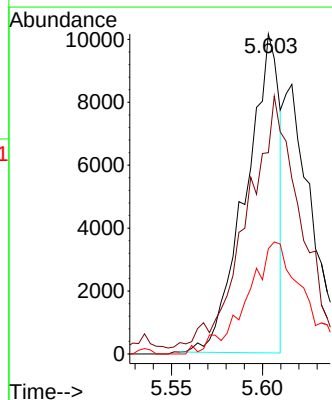
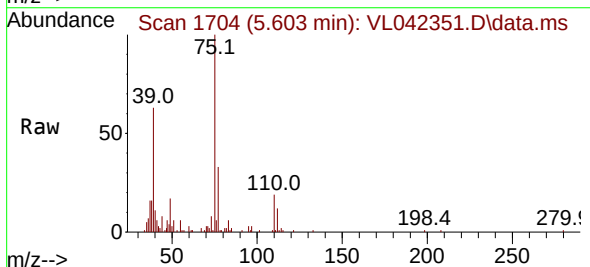
Tgt Ion: 75 Resp: 13028

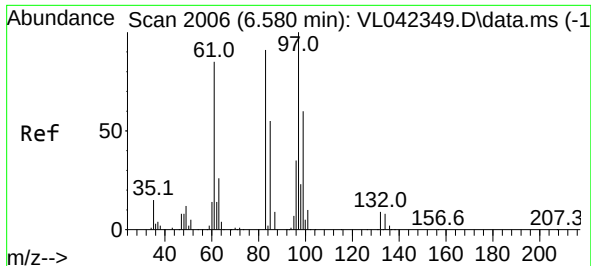
Ion Ratio Lower Upper

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 :

VSTDICC001

Tgt Ion: 97 Resp: 7690

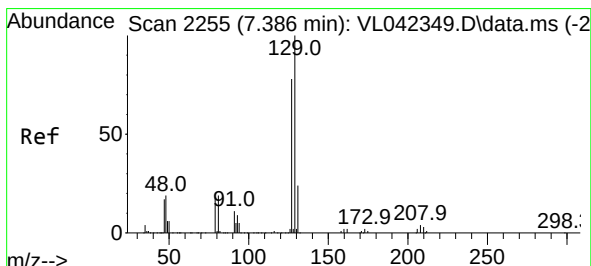
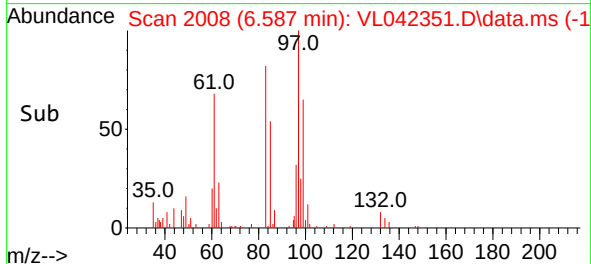
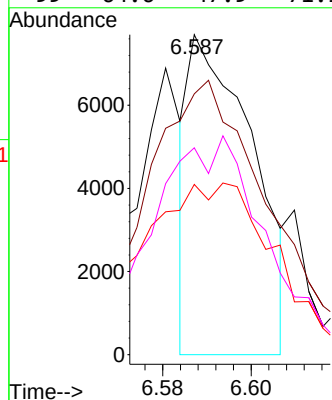
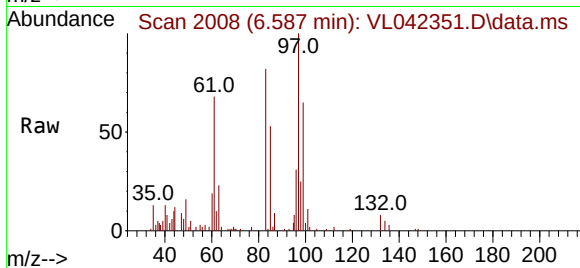
Ion Ratio Lower Upper

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

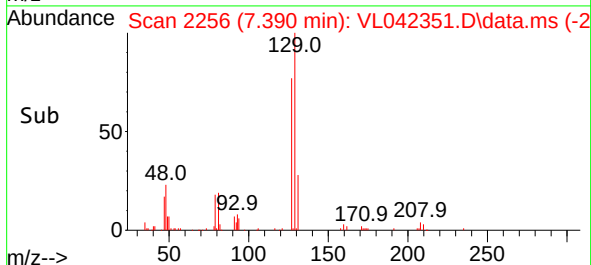
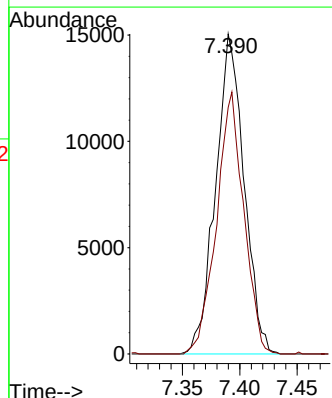
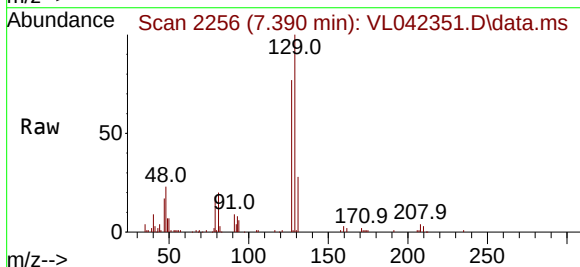
Acq: 17 Apr 2025 10:48

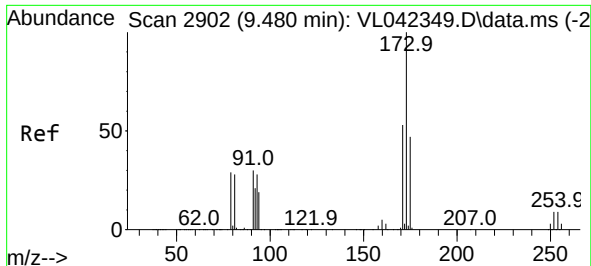
Tgt Ion: 129 Resp: 25948

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 :

VSTDICC001

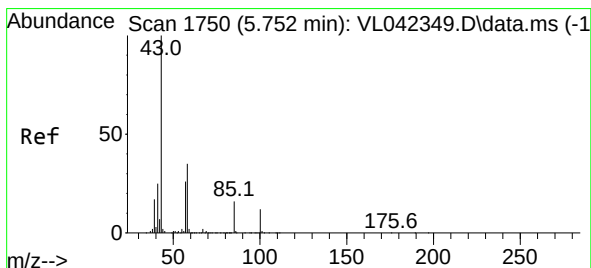
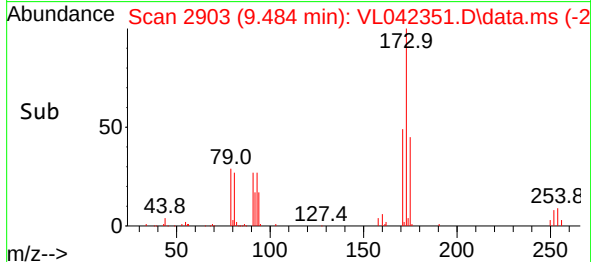
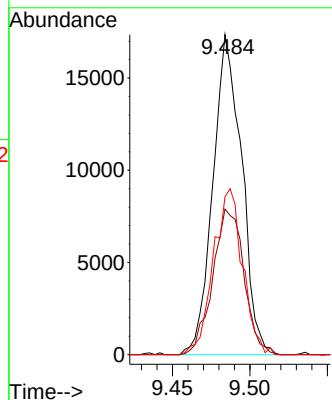
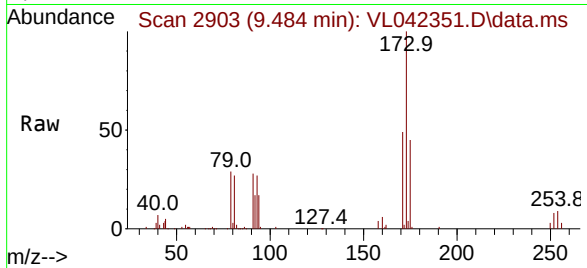
Tgt Ion:173 Resp: 22413

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

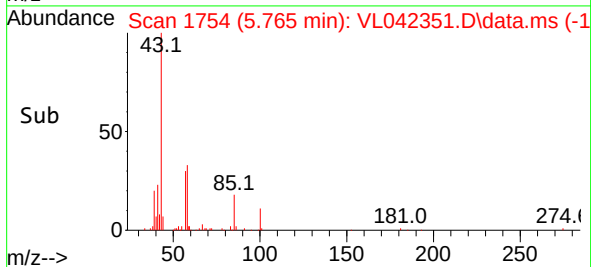
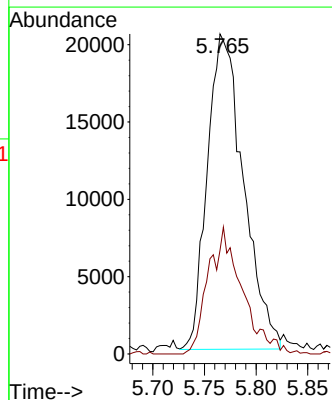
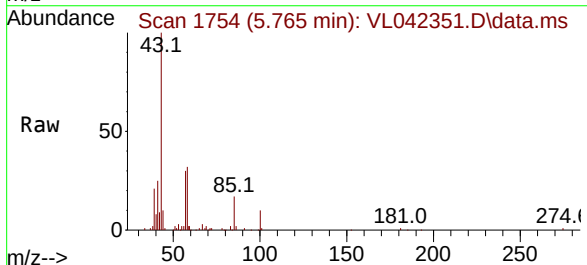
Acq: 17 Apr 2025 10:48

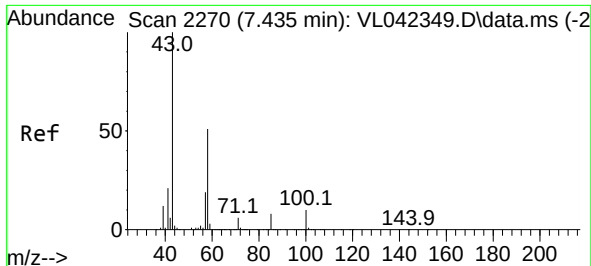
Tgt Ion: 43 Resp: 49725

Ion Ratio Lower Upper

43 100

58 37.7 28.6 43.0

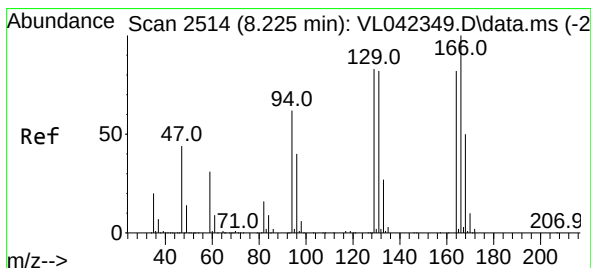
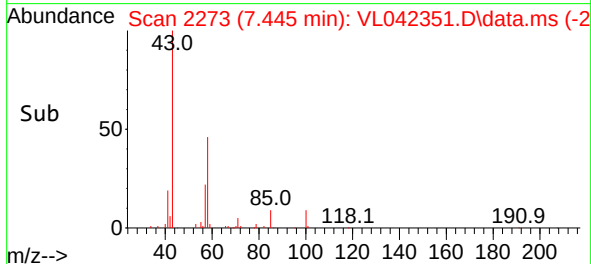
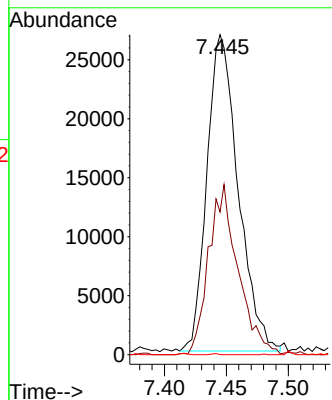
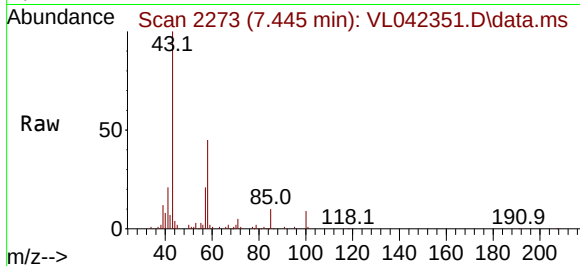




#51
2-Hexanone
Concen: 1.103 ppbv
RT: 7.445 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

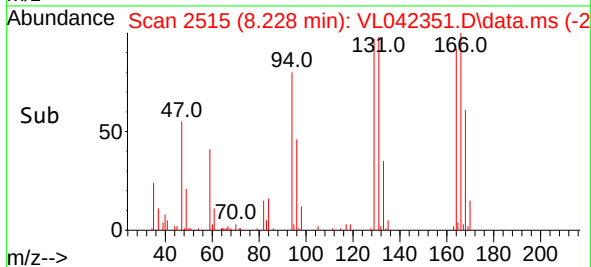
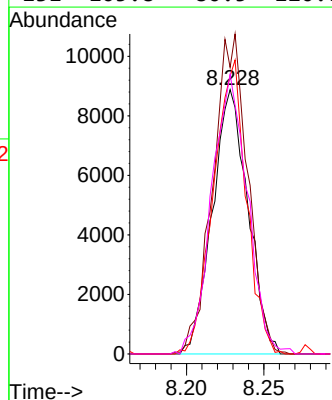
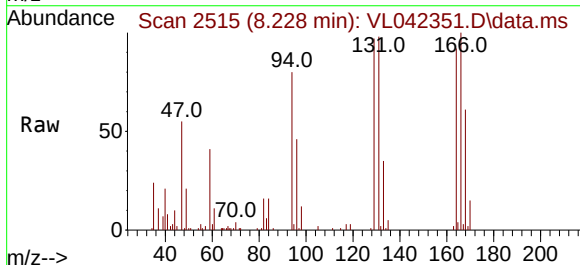
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

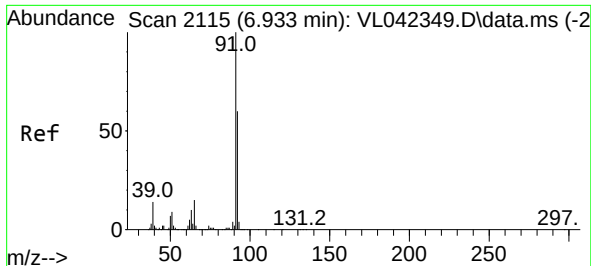
Tgt Ion: 43 Resp: 47178
Ion Ratio Lower Upper
43 100
58 50.8 40.2 60.4
98 0.1 0.1 0.1



#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

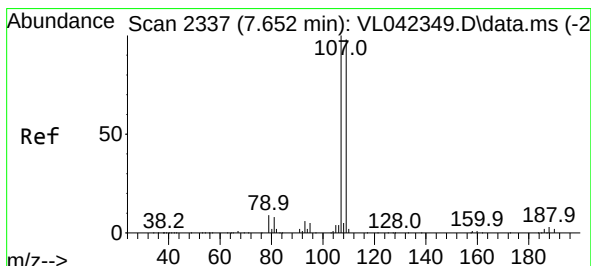
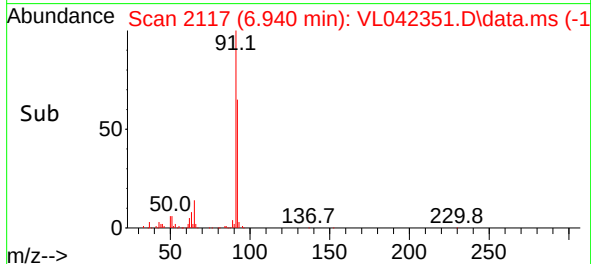
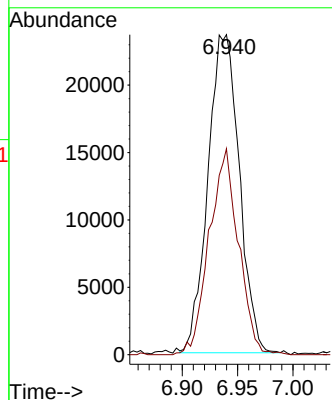
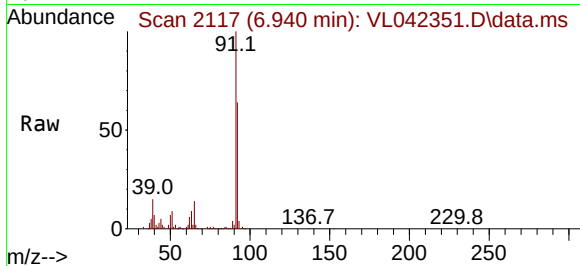




#53
Toluene
Concen: 1.001 ppbv
RT: 6.940 min Scan# 2115
Delta R.T. 0.007 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

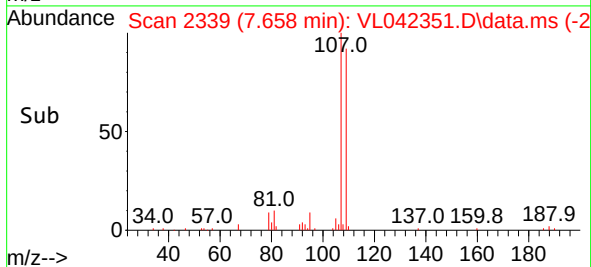
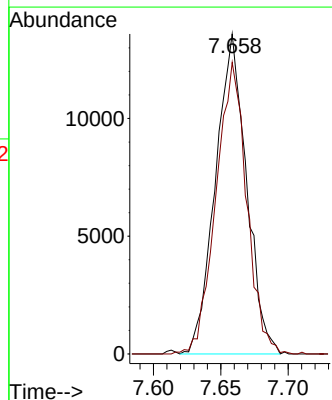
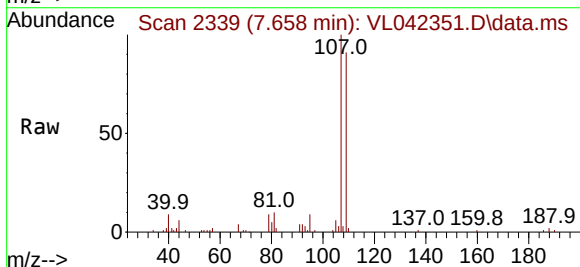
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

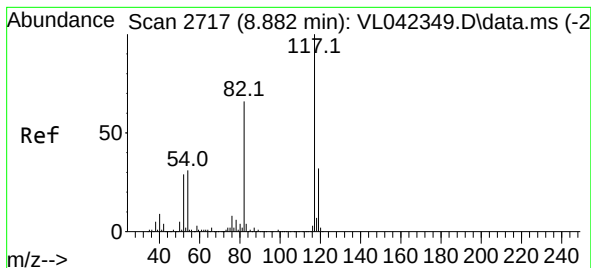
Tgt Ion: 91 Resp: 46611
Ion Ratio Lower Upper
91 100
92 60.4 48.2 72.4



#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

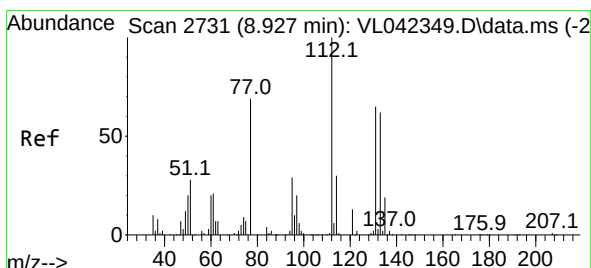
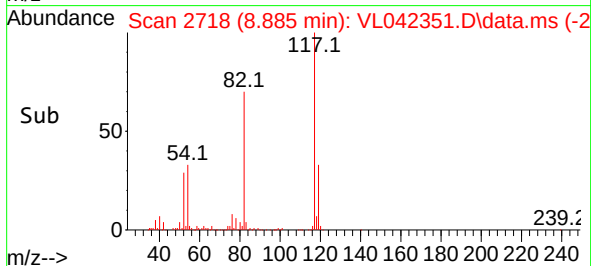
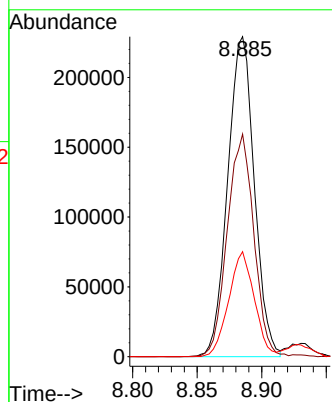
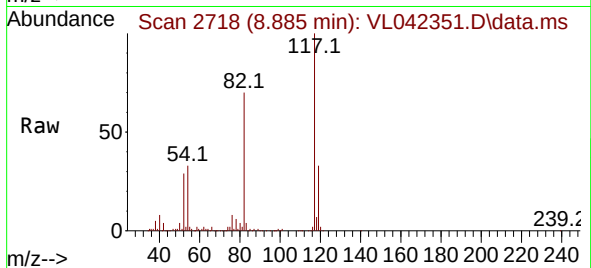
Tgt Ion:117 Resp: 329090

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

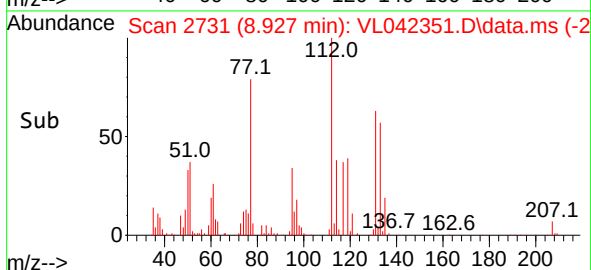
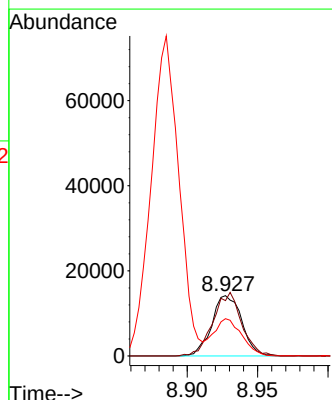
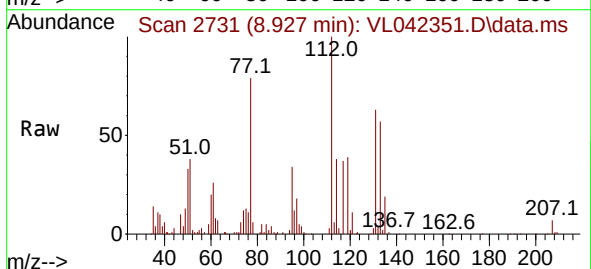
Tgt Ion:131 Resp: 21052

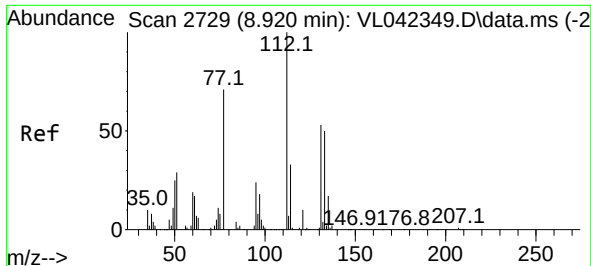
Ion Ratio Lower Upper

131 100

133 100.5 78.3 117.5

119 55.1 48.7 73.1

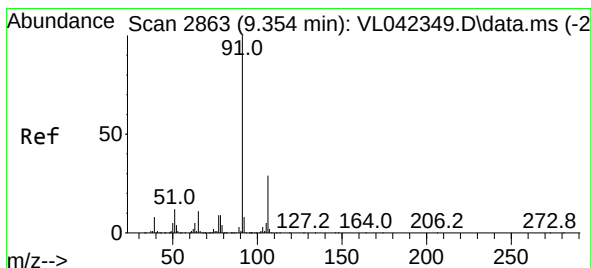
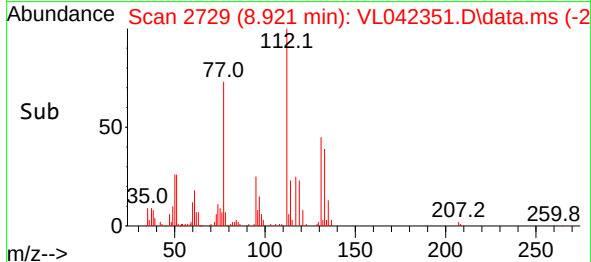
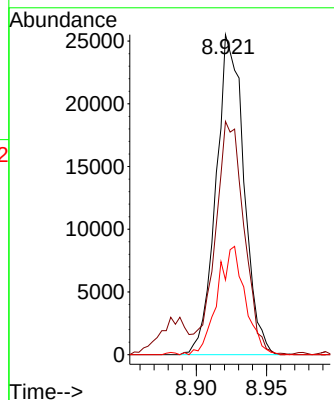
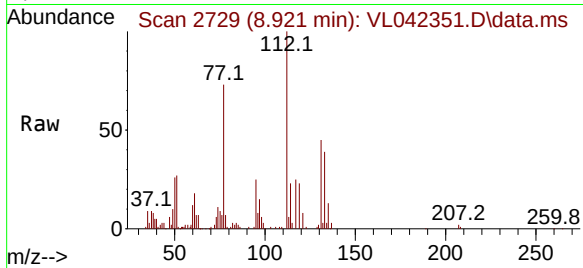




#57
Chlorobenzene
Concen: 1.026 ppbv
RT: 8.921 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

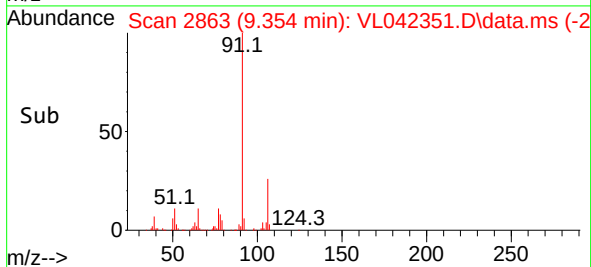
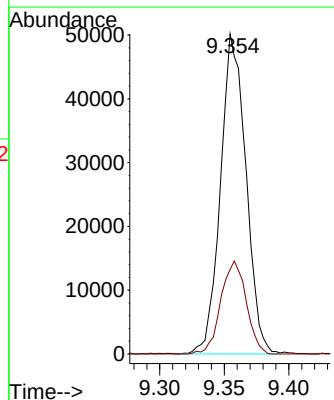
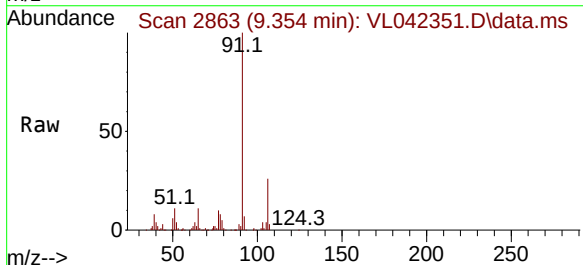
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

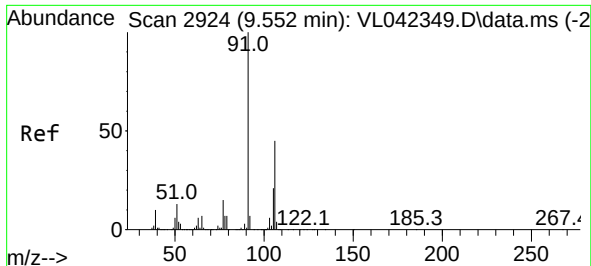
Tgt Ion:112 Resp: 35113
Ion Ratio Lower Upper
112 100
77 72.4 57.8 86.6
114 23.3 29.3 35.9#



#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 :

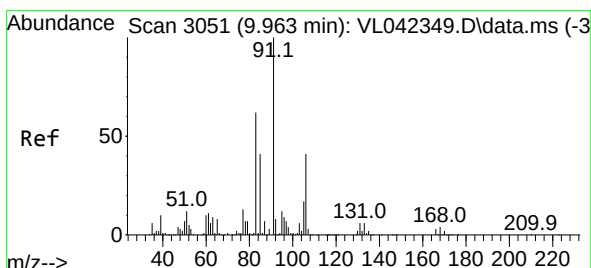
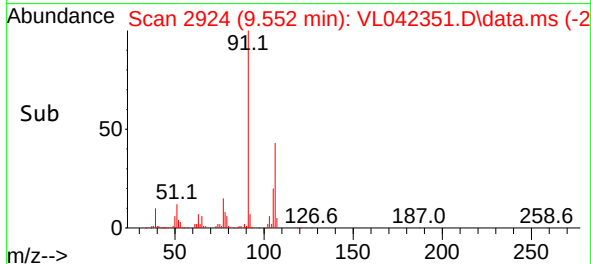
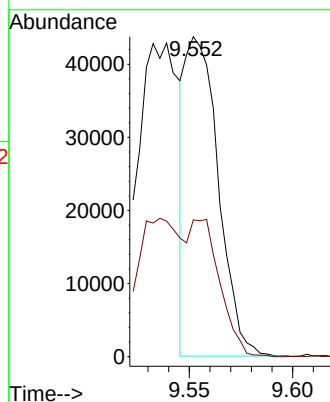
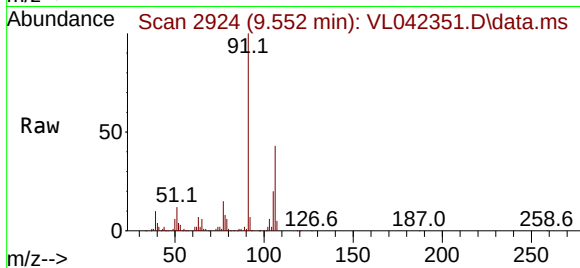
VSTDIC001

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

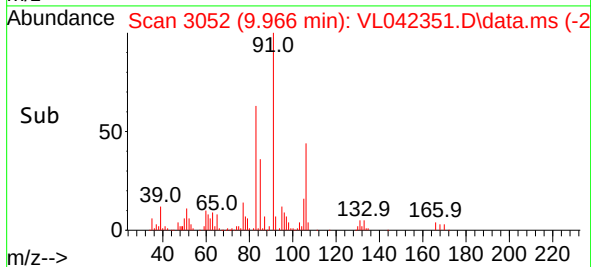
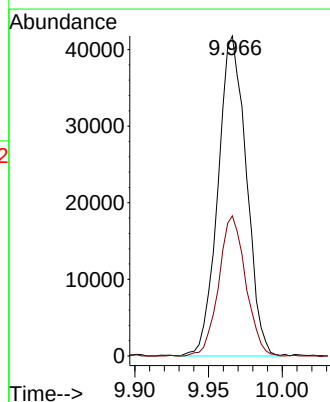
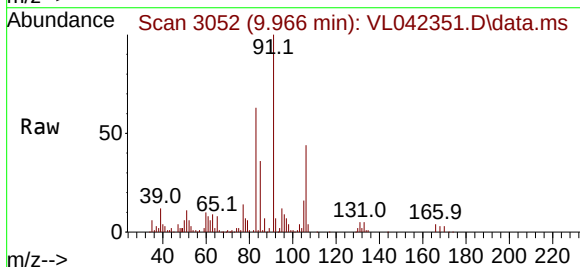
Acq: 17 Apr 2025 10:48

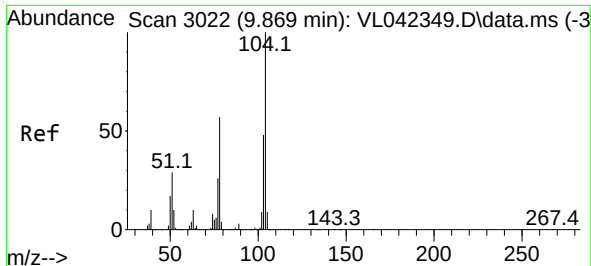
Tgt Ion: 91 Resp: 55831

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

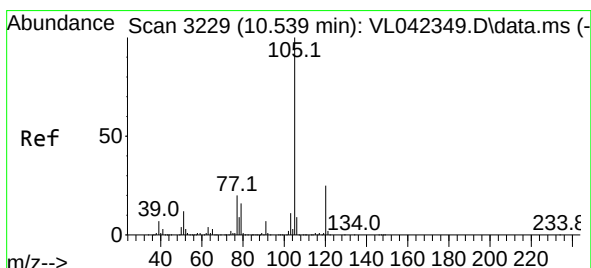
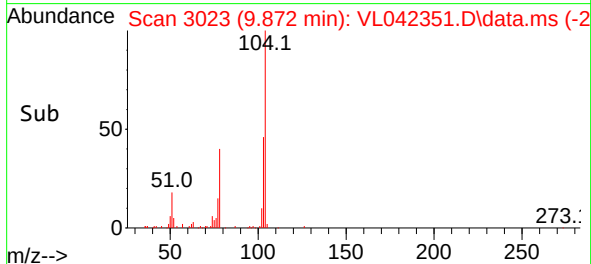
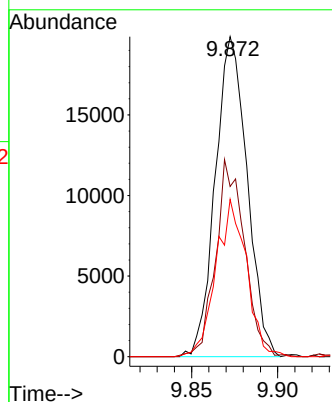
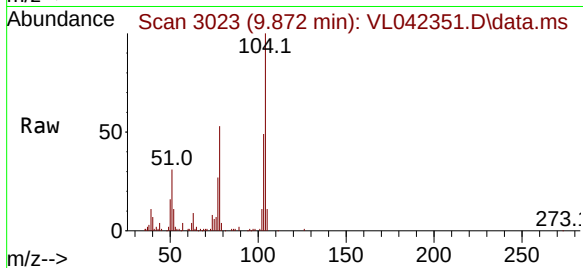
Tgt Ion:104 Resp: 25544

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

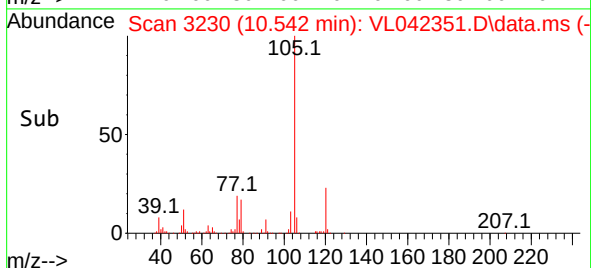
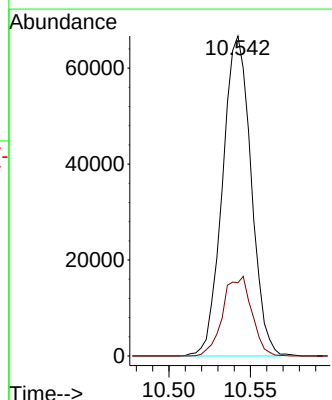
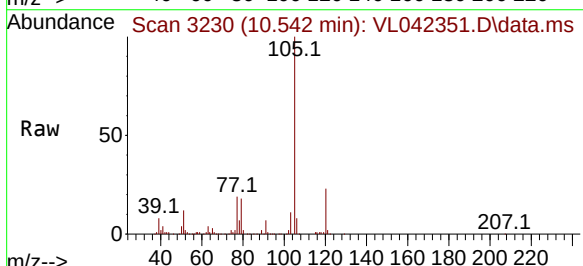
Acq: 17 Apr 2025 10:48

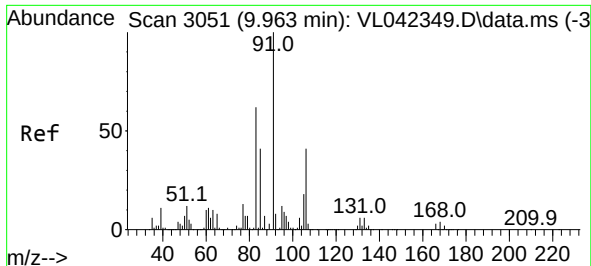
Tgt Ion:105 Resp: 81286

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

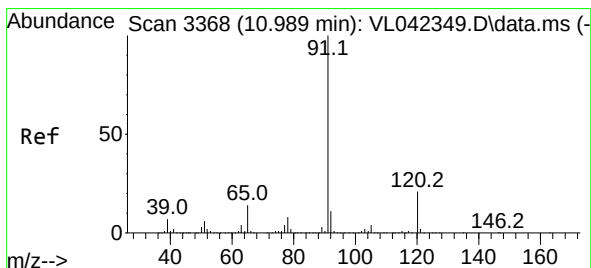
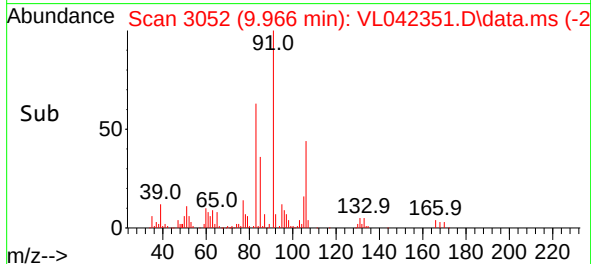
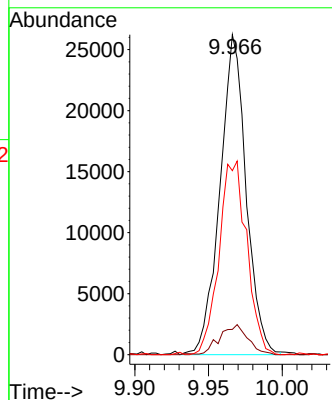
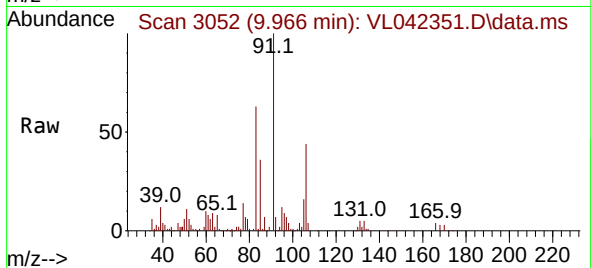
Tgt Ion: 83 Resp: 32410

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

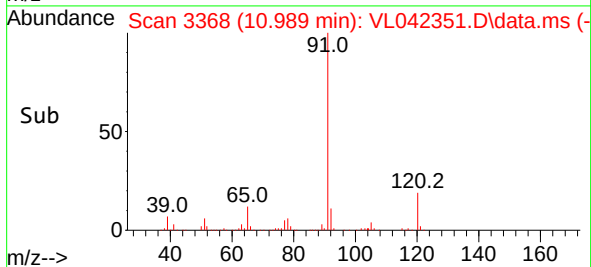
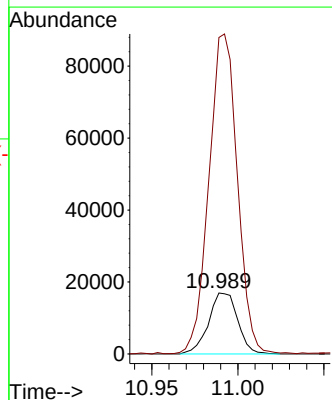
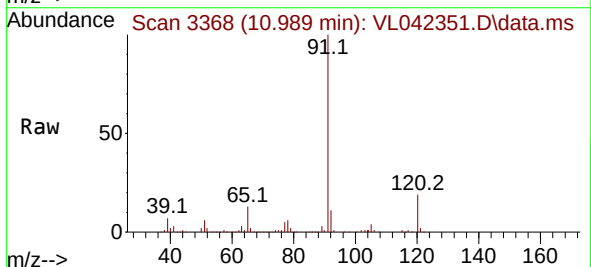
Acq: 17 Apr 2025 10:48

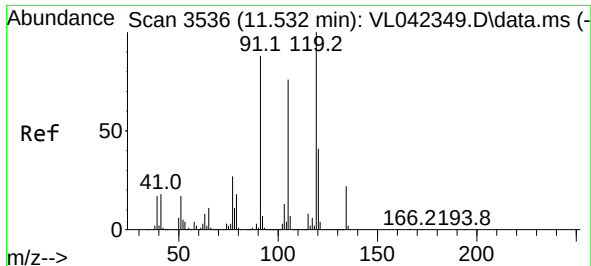
Tgt Ion:120 Resp: 19898

Ion Ratio Lower Upper

120 100

91 517.6 392.4 588.6

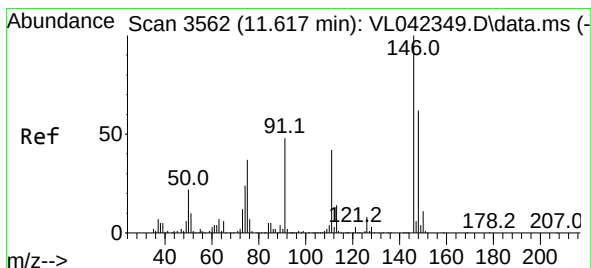
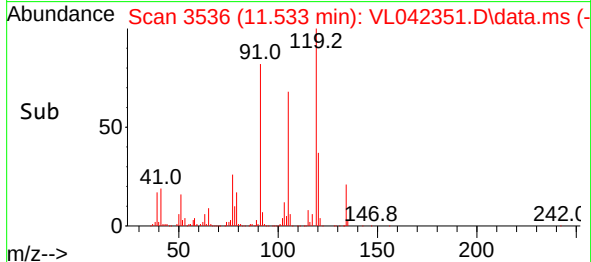
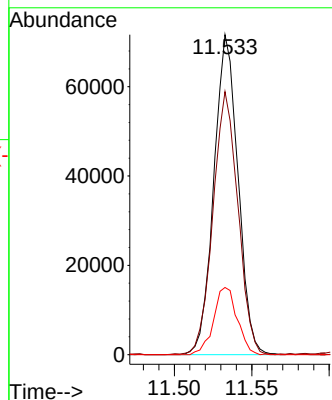
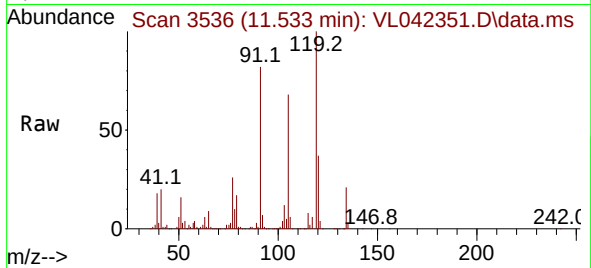




#65
tert-Butylbenzene
Concen: 1.087 ppbv
RT: 11.533 min Scan# 3536
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

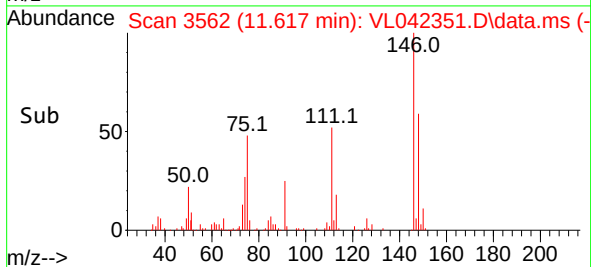
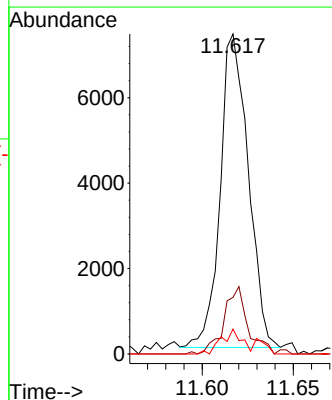
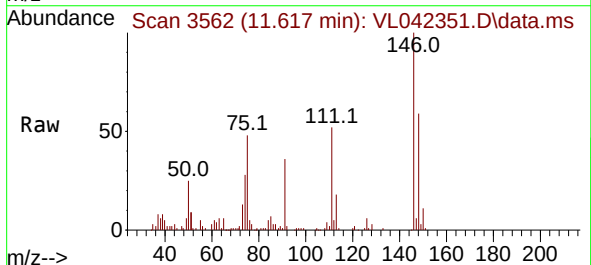
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

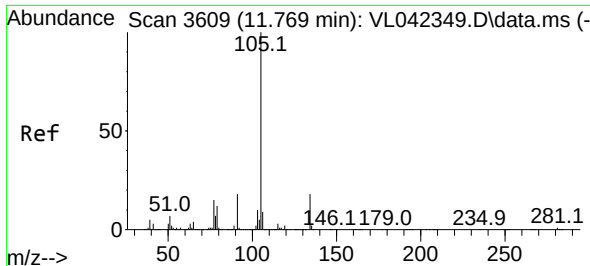
Tgt Ion:119 Resp: 77598
Ion Ratio Lower Upper
119 100
91 85.0 74.6 111.8
134 20.5 18.8 28.2



#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#

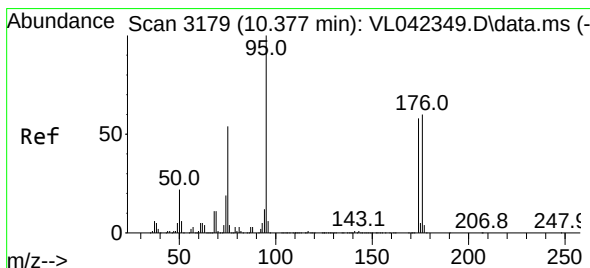
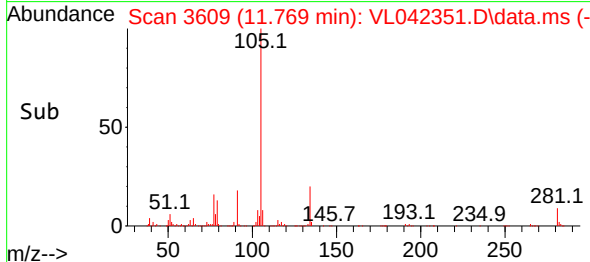
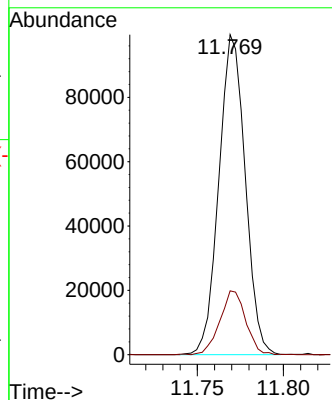
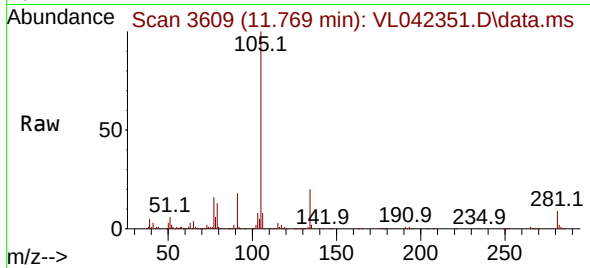




#67
 sec-Butylbenzene
 Concen: 1.067 ppbv
 RT: 11.769 min Scan# 3609
 Delta R.T. 0.000 min
 Lab File: VL042351.D
 Acq: 17 Apr 2025 10:48

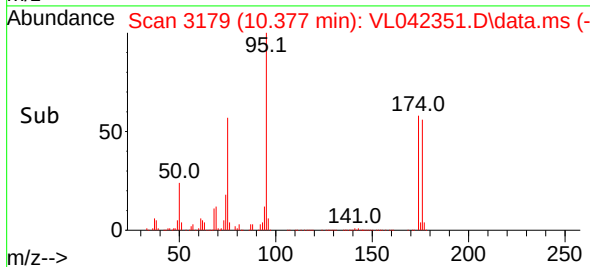
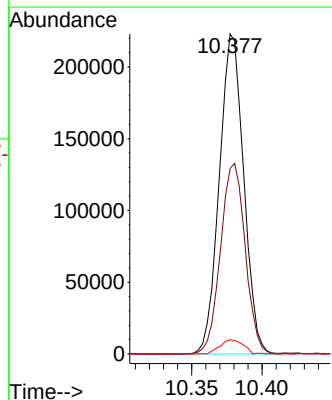
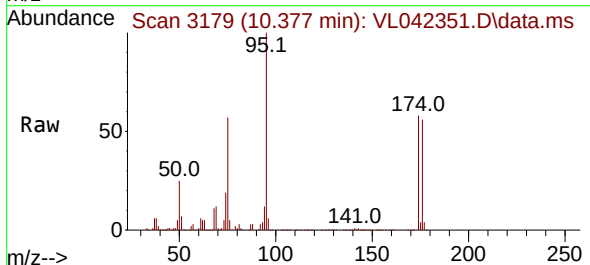
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC001

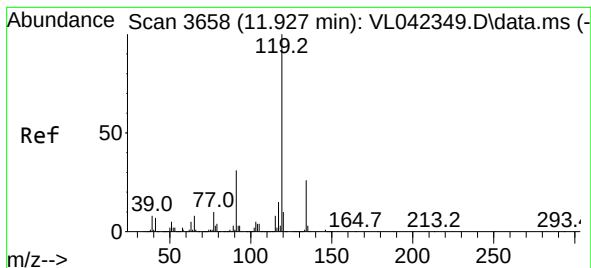
Tgt Ion:105 Resp: 105919
 Ion Ratio Lower Upper
 105 100
 134 19.6 14.6 21.8



#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

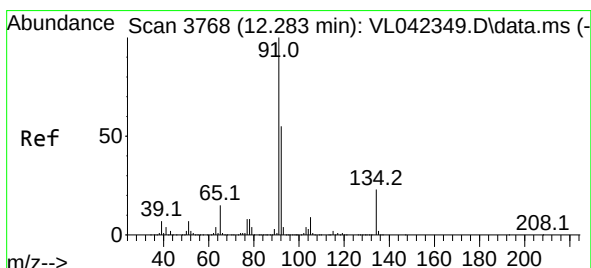
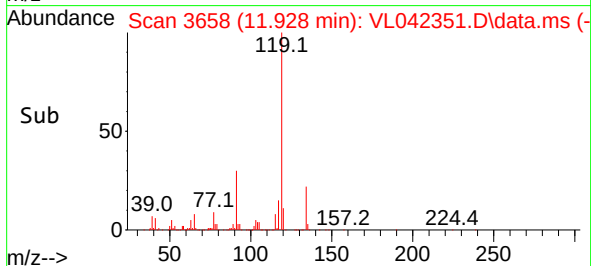
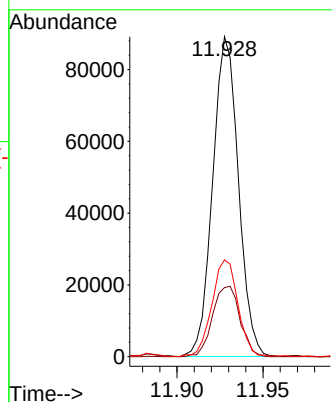
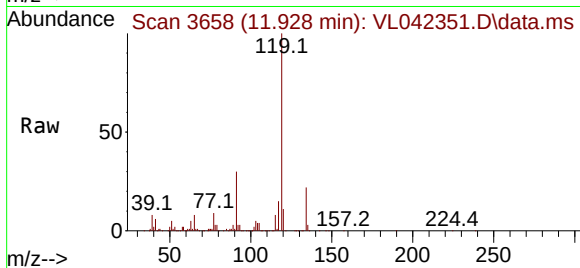
Tgt Ion:119 Resp: 92733

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

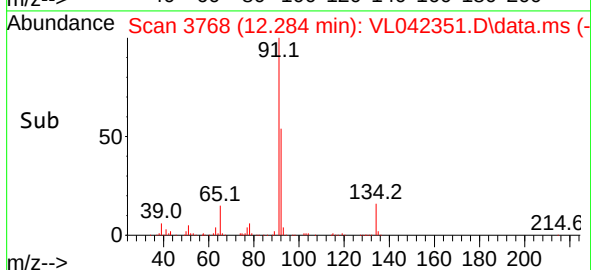
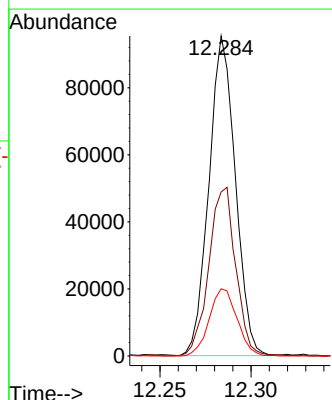
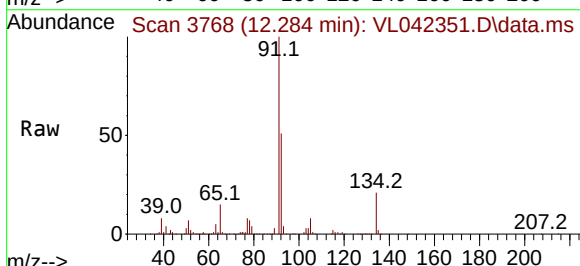
Tgt Ion: 91 Resp: 96306

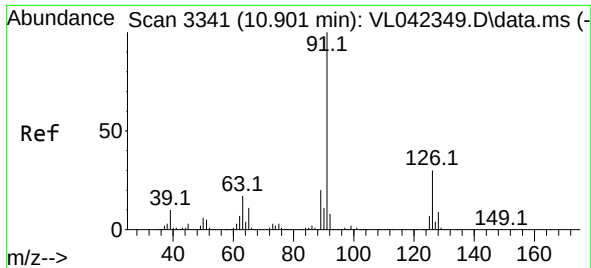
Ion Ratio Lower Upper

91 100

92 54.2 44.2 66.4

134 22.1 18.2 27.4

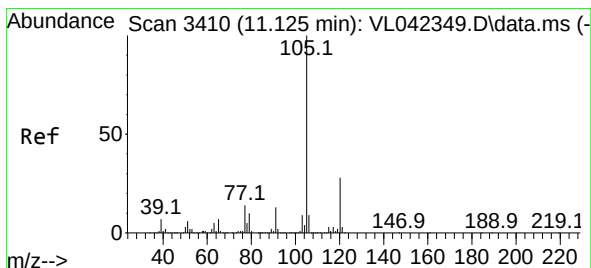
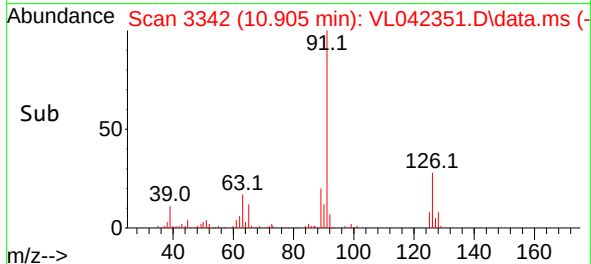
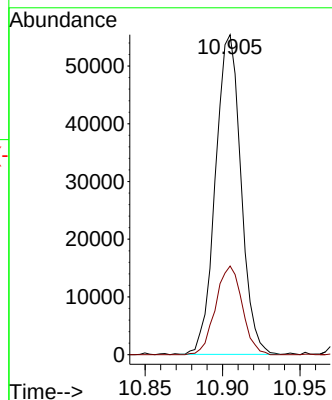
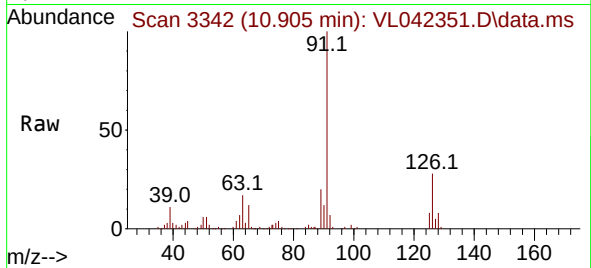




#71
2-Chlorotoluene
Concen: 1.040 ppbv
RT: 10.905 min Scan# 31
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

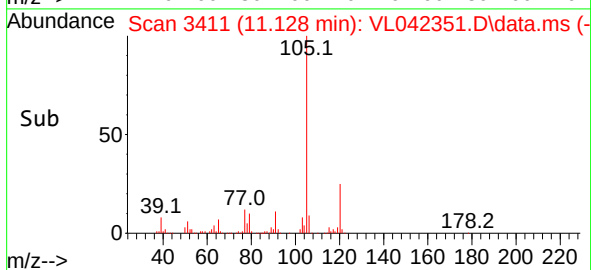
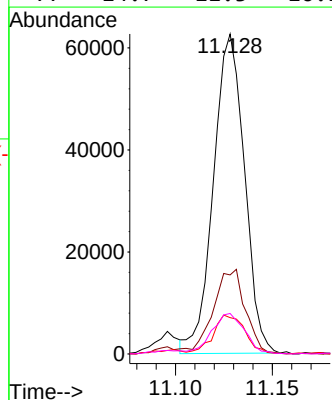
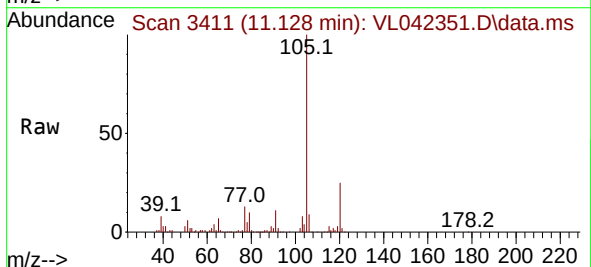
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

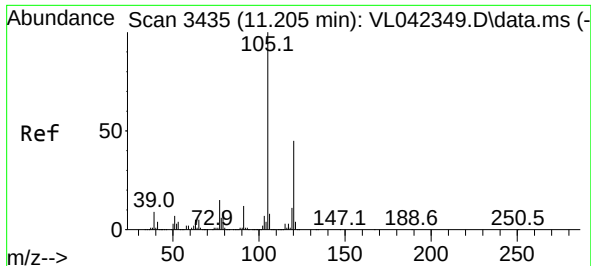
Tgt Ion: 91 Resp: 63321
Ion Ratio Lower Upper
91 100
126 28.9 11.4 45.4



#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

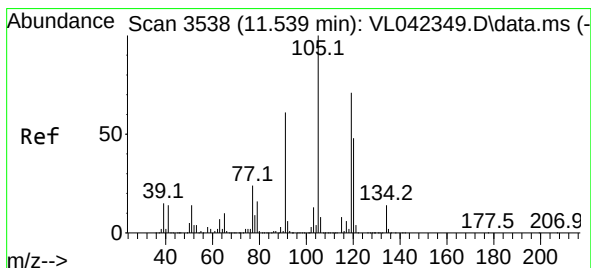
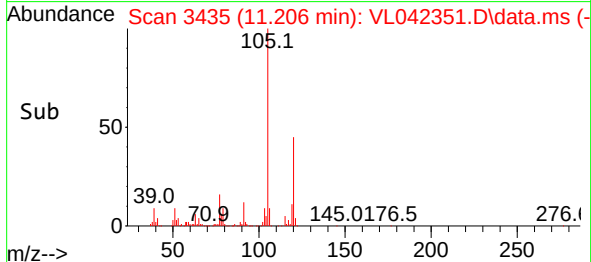
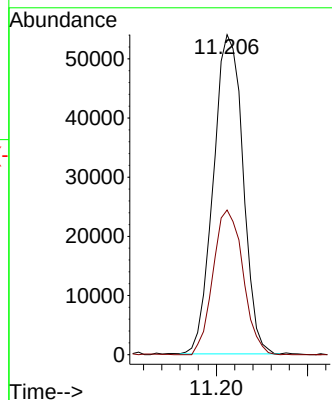
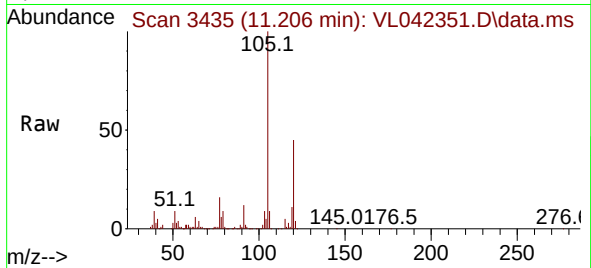




#73
1,3,5-Trimethylbenzene
Concen: 1.067 ppbv
RT: 11.206 min Scan# 3435
Delta R.T. 0.000 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

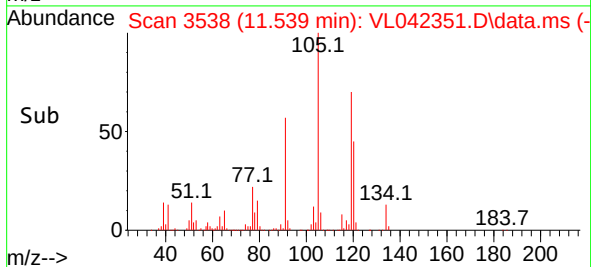
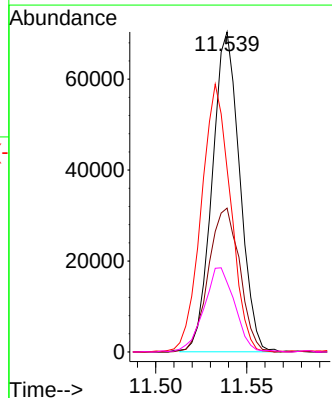
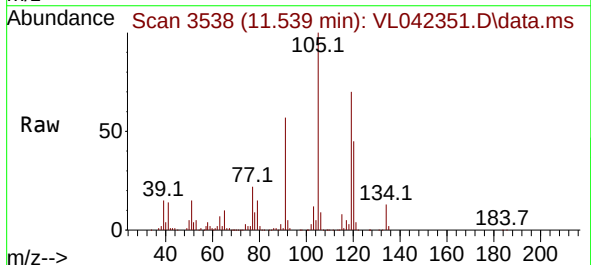
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

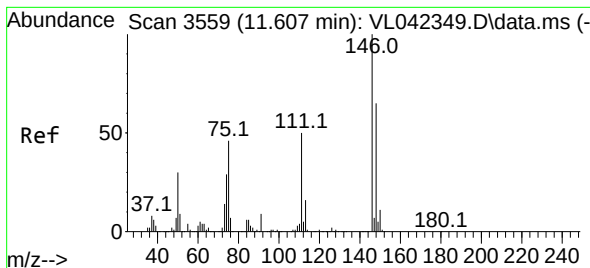
Tgt Ion:105 Resp: 60927
Ion Ratio Lower Upper
105 100
120 45.3 35.6 53.4



#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

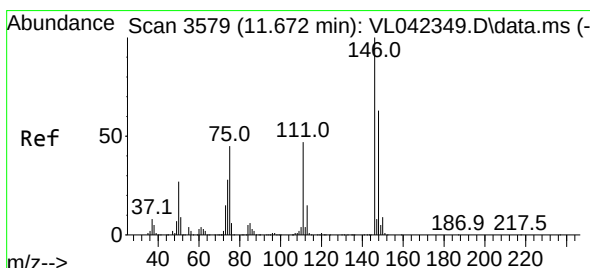
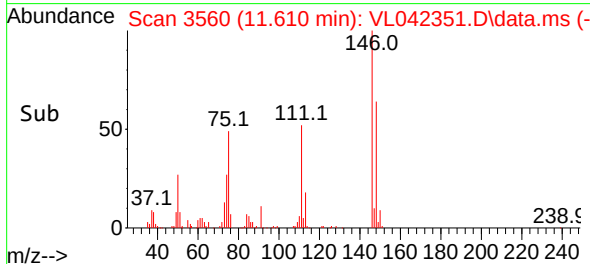
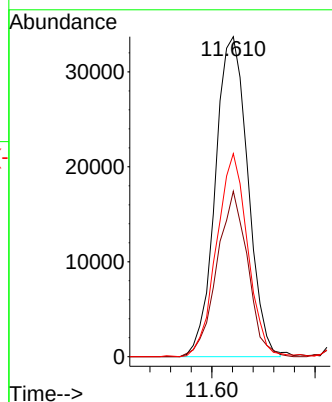
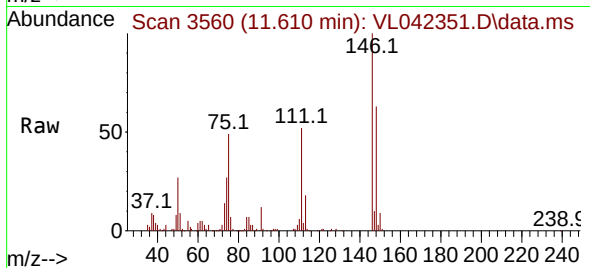
Tgt Ion:146 Resp: 36877

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

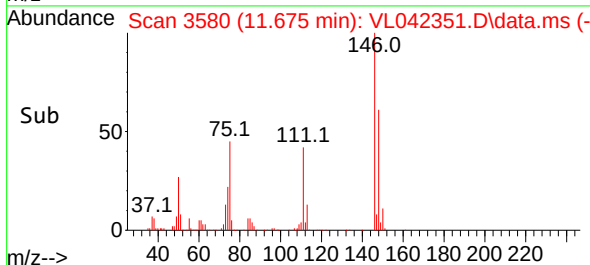
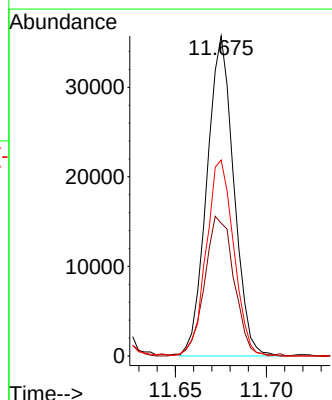
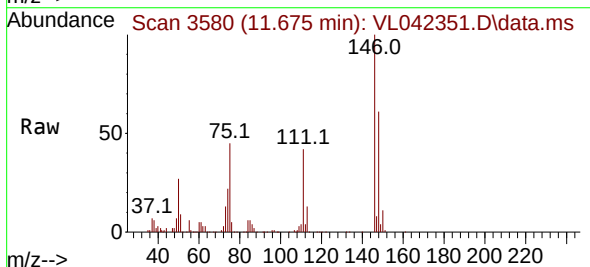
Tgt Ion:146 Resp: 36692

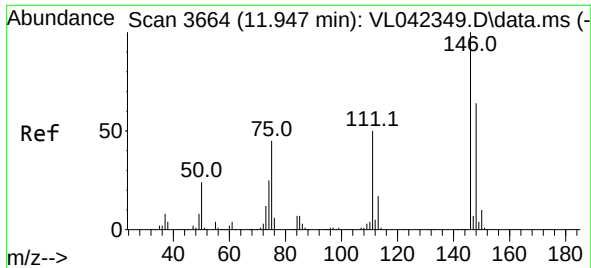
Ion Ratio Lower Upper

146 100

111 47.7 24.2 72.6

148 62.3 32.1 96.5

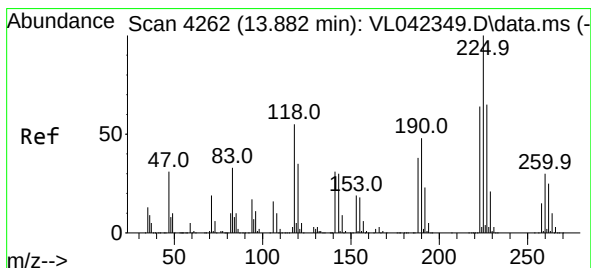
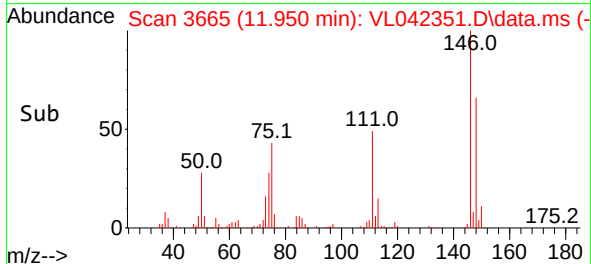
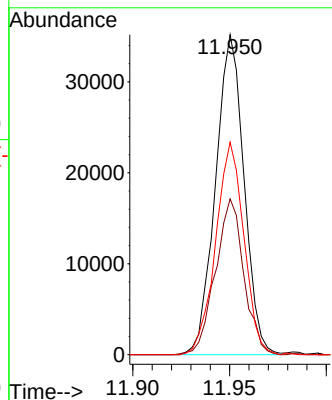
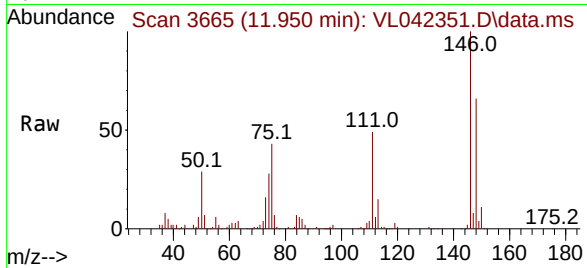




#77
1,2-Dichlorobenzene
Concen: 1.068 ppbv
RT: 11.950 min Scan# 30
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

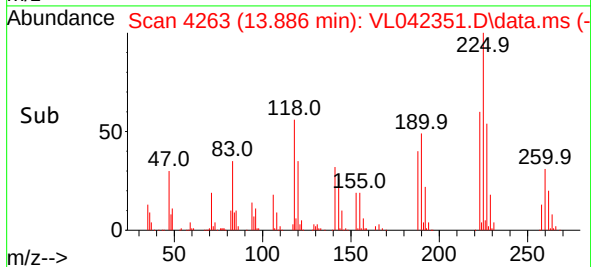
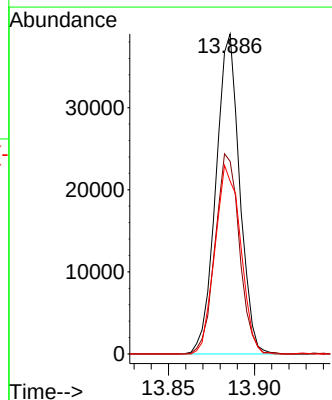
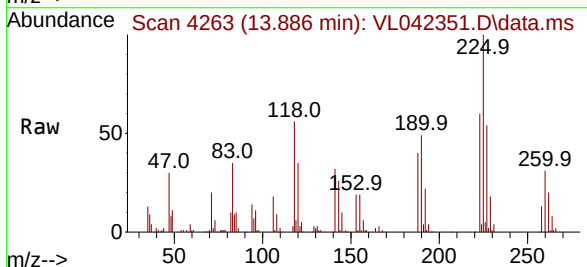
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

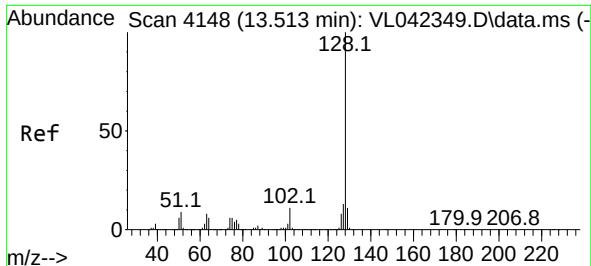
Tgt Ion:146 Resp: 35977
Ion Ratio Lower Upper
146 100
111 48.7 25.3 75.9
148 65.9 31.5 94.5



#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

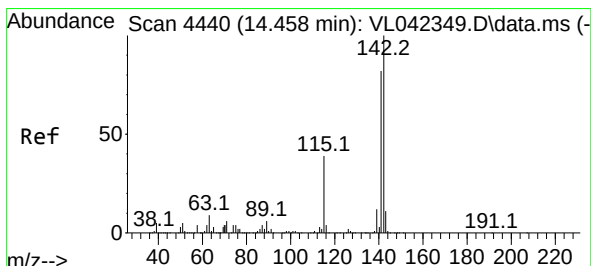
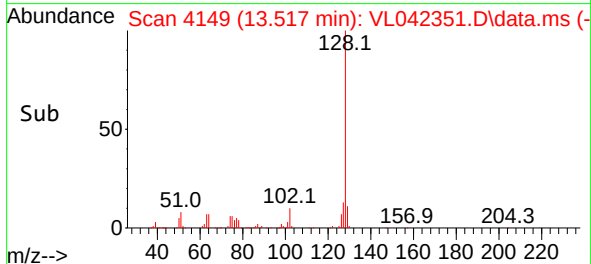
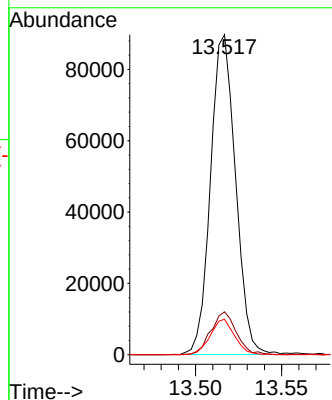
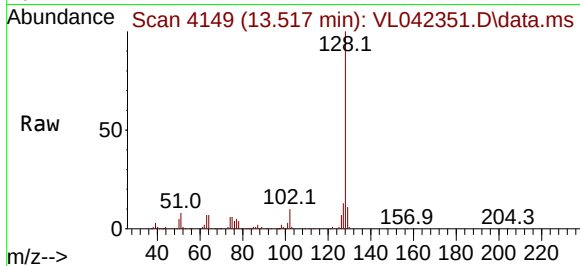




#79
Naphthalene
Concen: 1.138 ppbv
RT: 13.517 min Scan# 4148
Delta R.T. 0.004 min
Lab File: VL042351.D
Acq: 17 Apr 2025 10:48

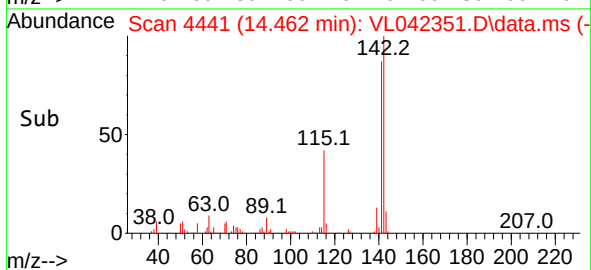
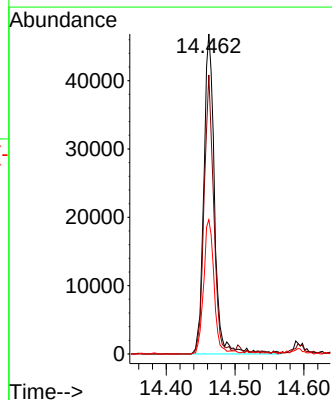
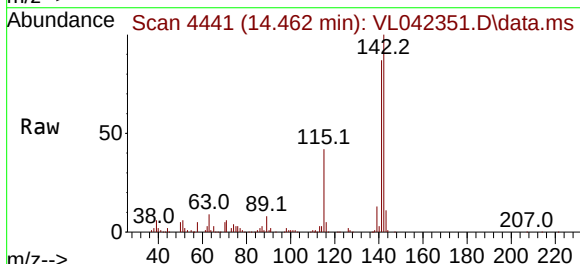
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC001

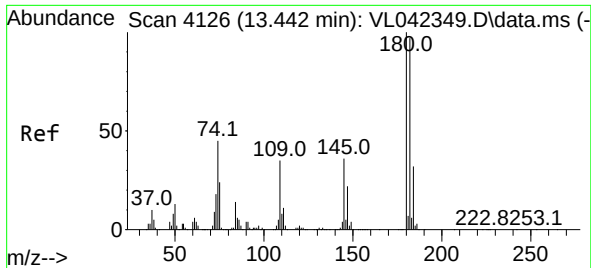
Tgt Ion:128 Resp: 90710
Ion Ratio Lower Upper
128 100
127 13.4 10.6 15.8
129 11.1 8.6 12.8



#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

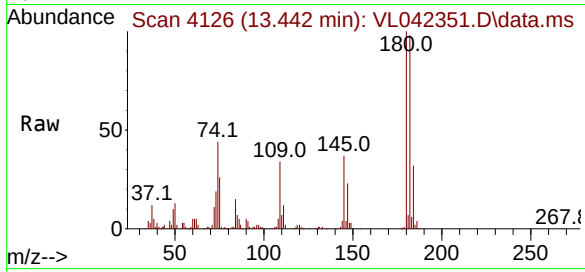
Acq: 17 Apr 2025 10:48

Instrument :

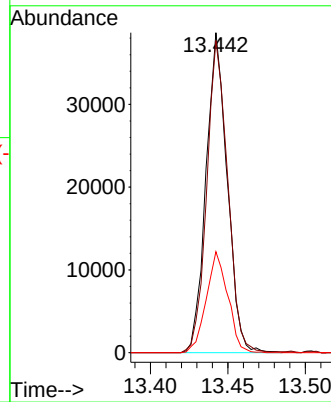
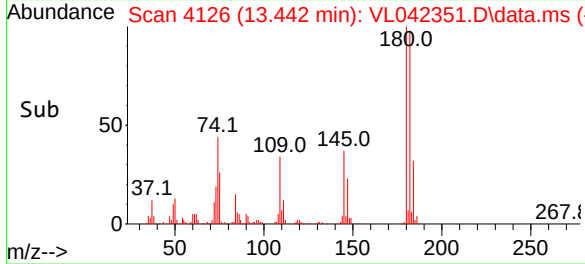
MSVOA_L

ClientSampleId :

VSTDIC001



Tgt Ion:	180	Resp:	36764
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

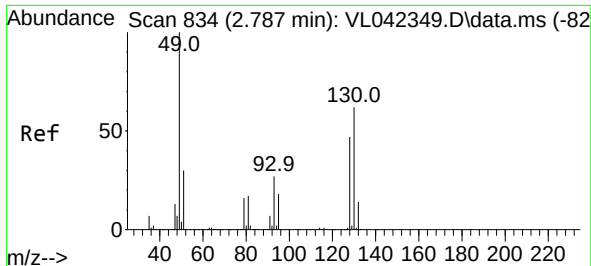
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042352.D
 Acq On : 17 Apr 2025 11:19
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

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)
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

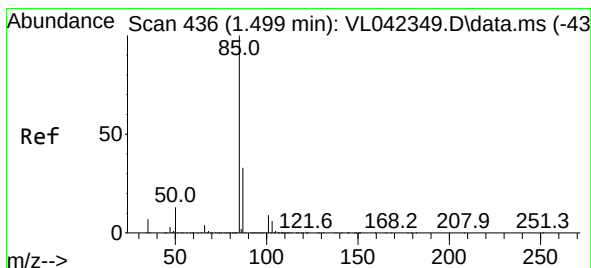
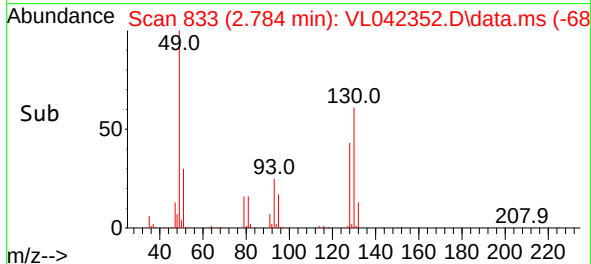
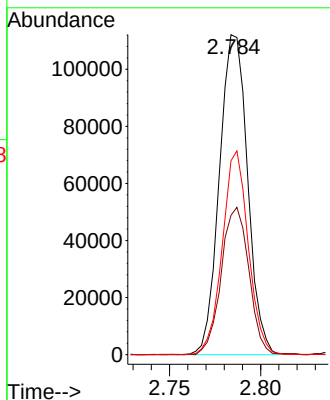
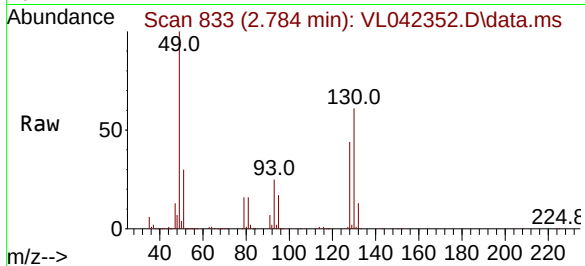
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#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

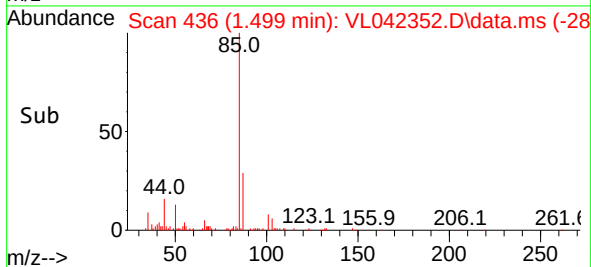
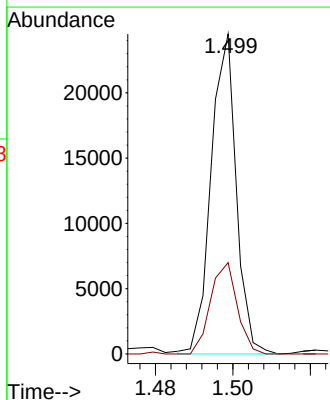
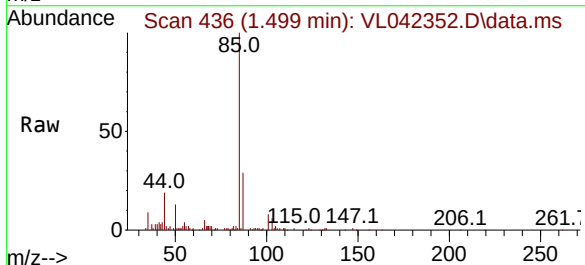
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

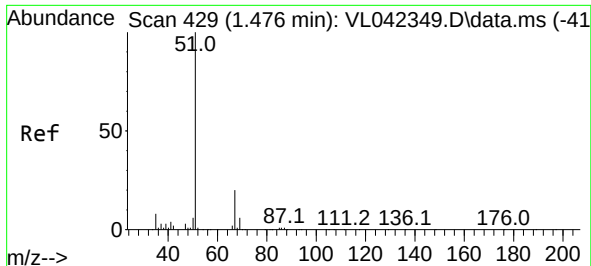
Tgt Ion: 49 Resp: 120542
Ion Ratio Lower Upper
49 100
128 45.3 22.8 68.4
130 59.0 29.3 88.0



#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

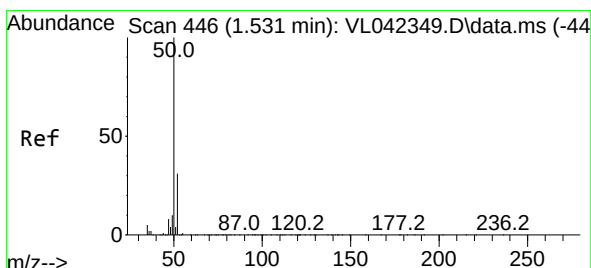
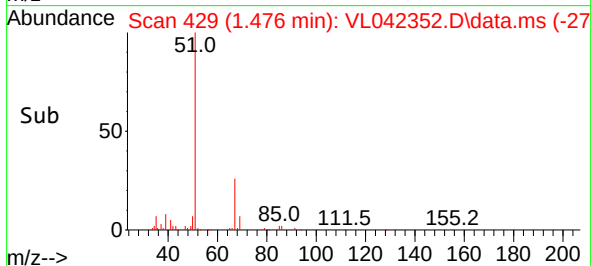
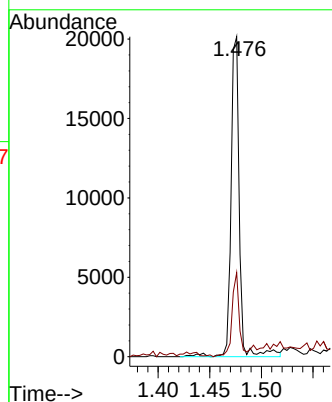
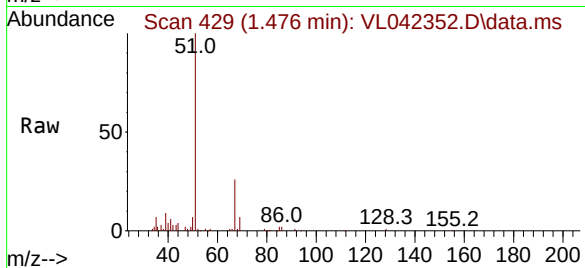




#3
Chlorodifluoromethane
Concen: 0.557 ppbv
RT: 1.476 min Scan# 429
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

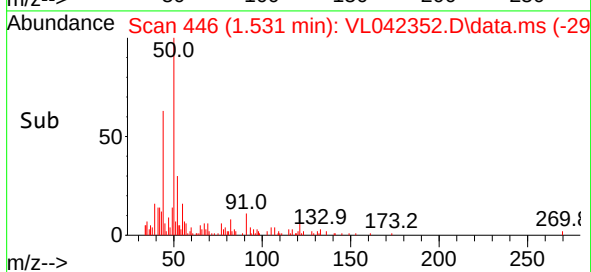
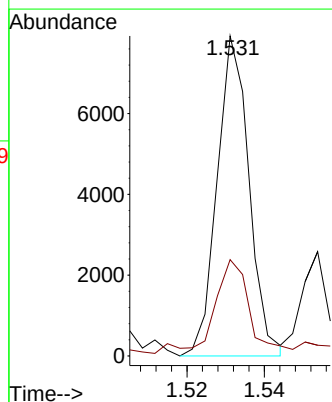
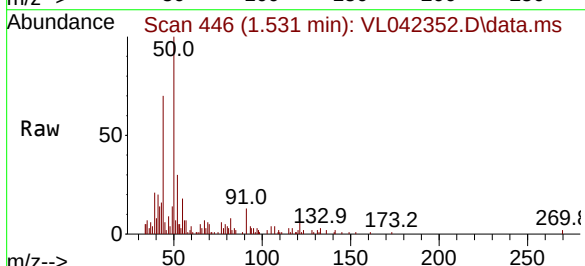
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

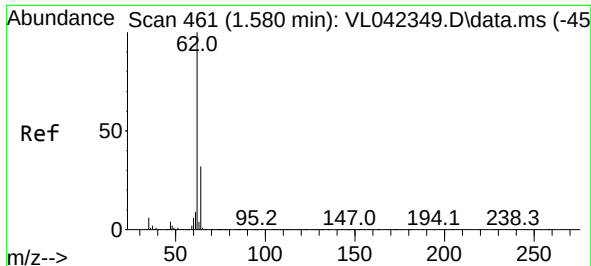
Tgt Ion: 51 Resp: 11304
Ion Ratio Lower Upper
51 100
67 27.8 16.2 24.4#



#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

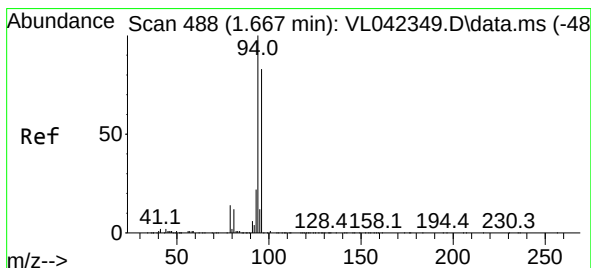
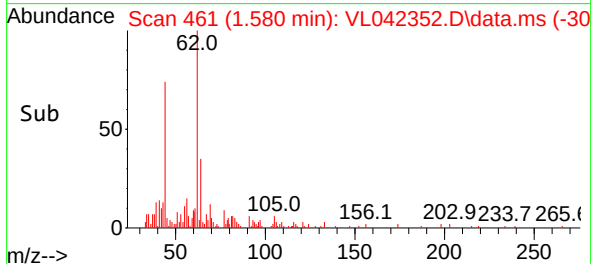
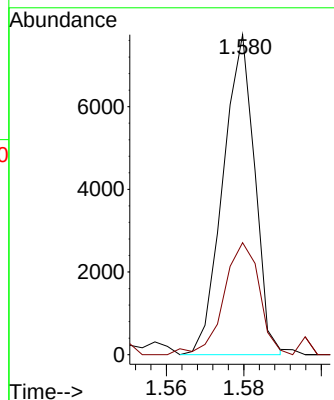
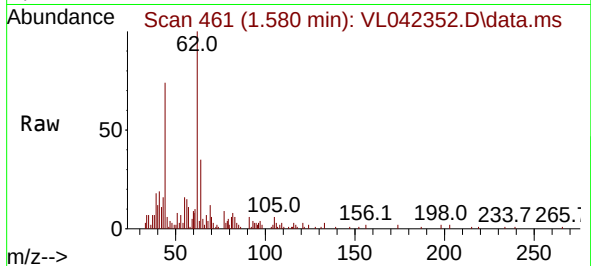




#5
 Vinyl Chloride
 Concen: 0.480 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. -0.000 min
 Lab File: VL042352.D
 Acq: 17 Apr 2025 11:19

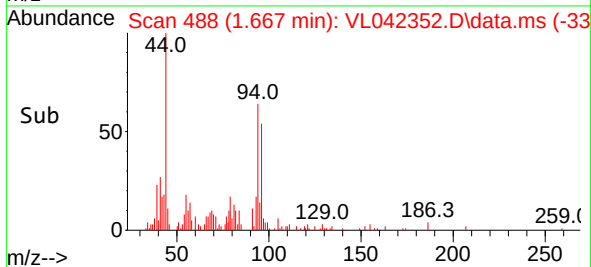
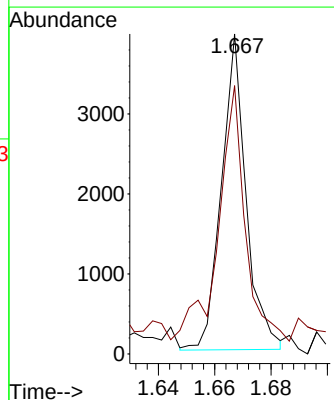
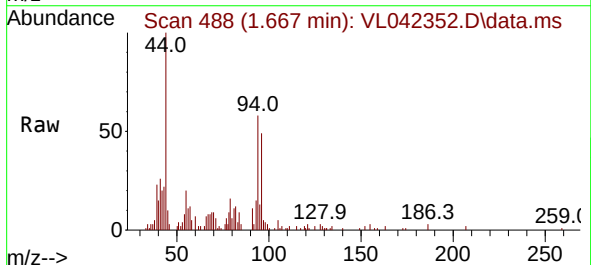
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5

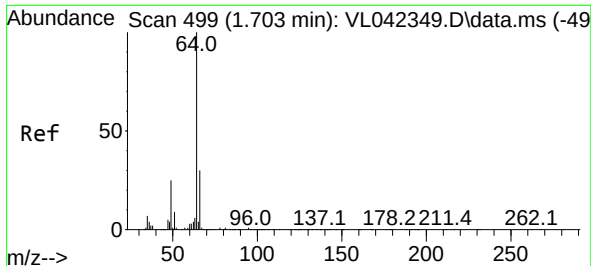
Tgt Ion: 62 Resp: 4406
 Ion Ratio Lower Upper
 62 100
 64 33.5 25.4 38.0



#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

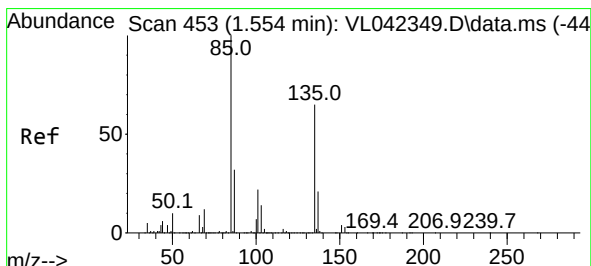
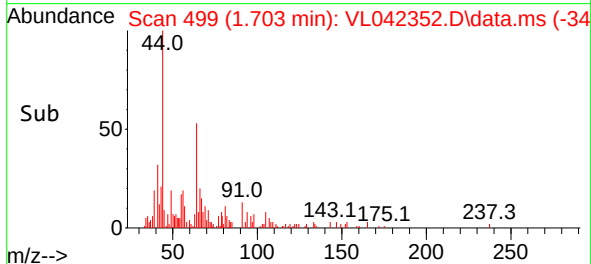
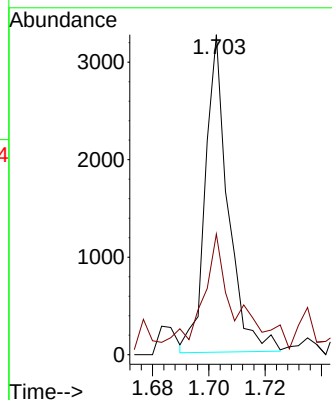
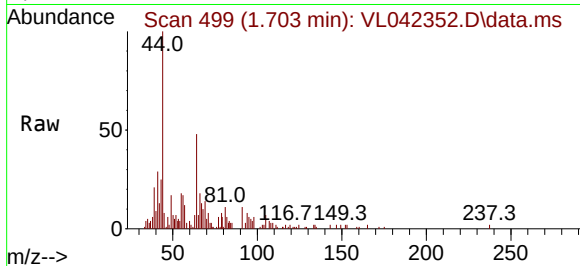




#7
Chloroethane
Concen: 0.550 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

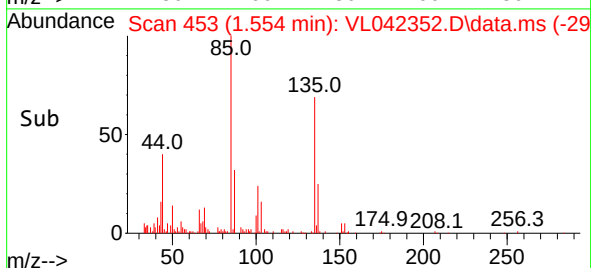
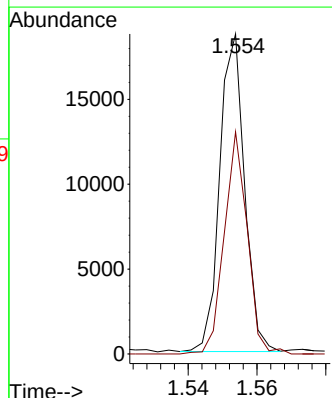
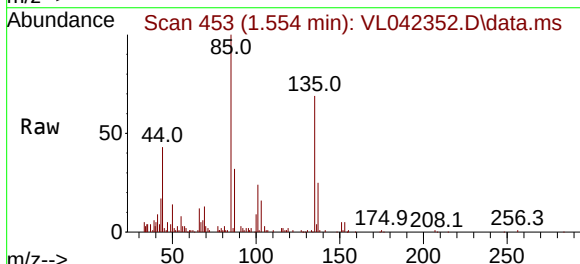
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

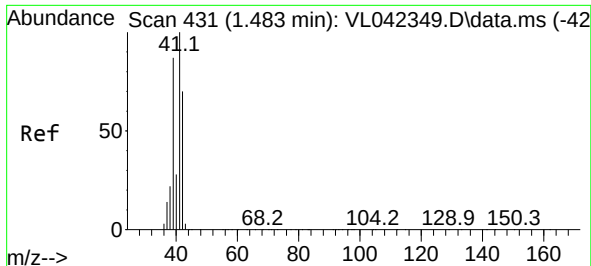
Tgt Ion: 64 Resp: 1824
Ion Ratio Lower Upper
64 100
66 37.7 24.6 37.0#



#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 :

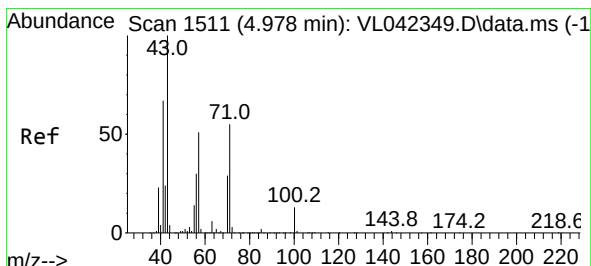
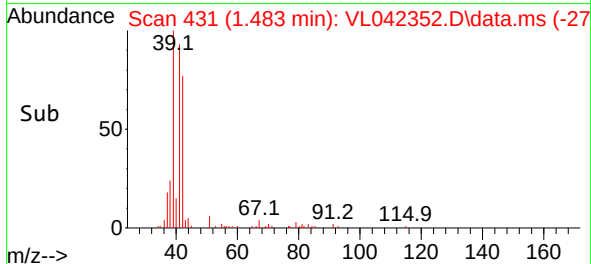
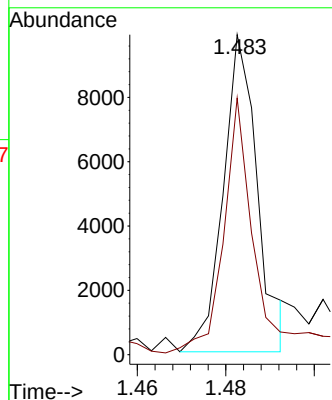
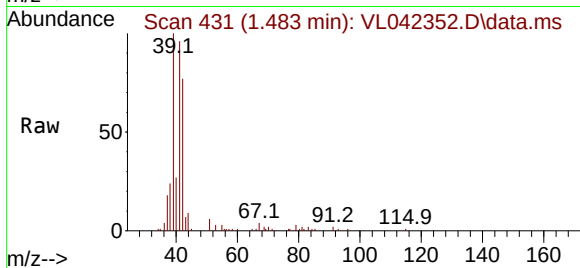
VSTDIC0.5

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

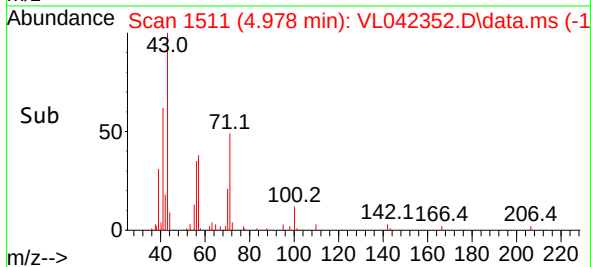
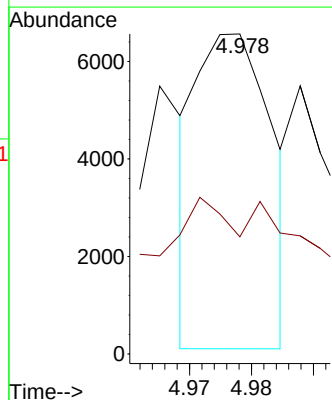
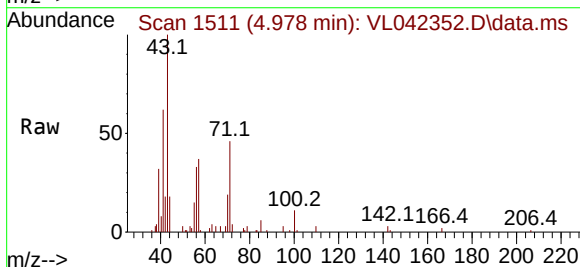
Acq: 17 Apr 2025 11:19

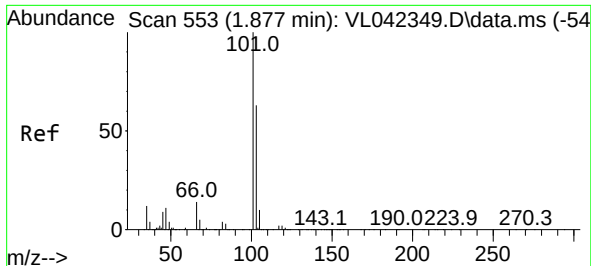
Tgt Ion: 43 Resp: 5438

Ion Ratio Lower Upper

43 100

57 138.4 39.9 59.9#

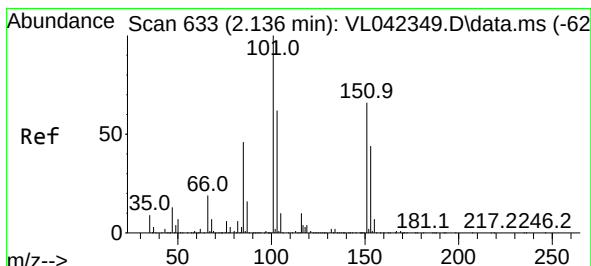
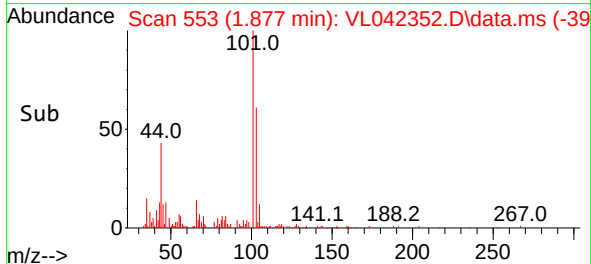
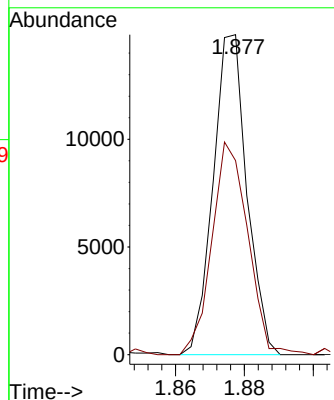
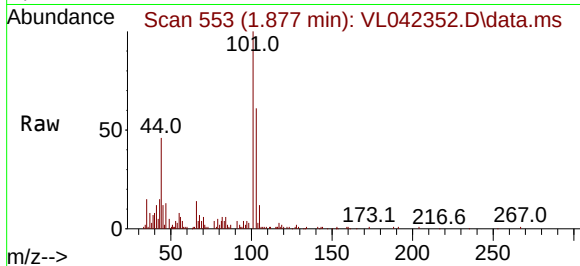




#11
 Trichlorofluoromethane
 Concen: 0.501 ppbv
 RT: 1.877 min Scan# 511
 Delta R.T. -0.000 min
 Lab File: VL042352.D
 Acq: 17 Apr 2025 11:19

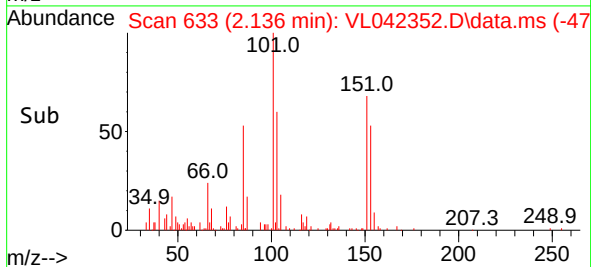
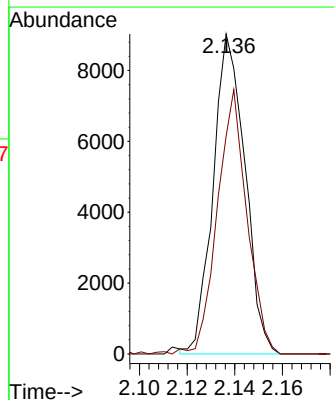
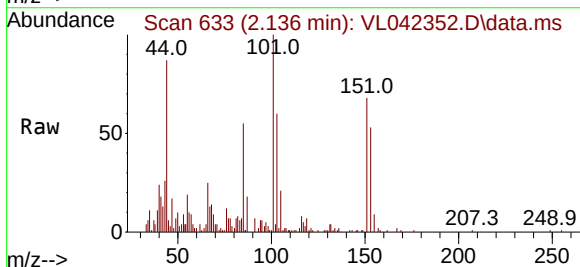
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

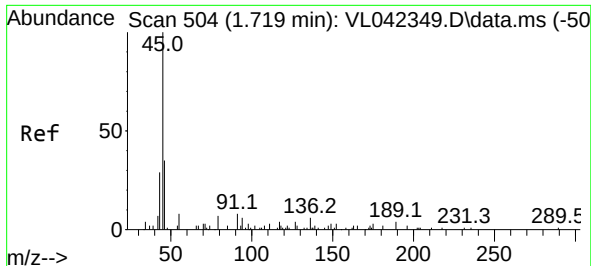
Tgt Ion:101 Resp: 10150
 Ion Ratio Lower Upper
 101 100
 103 60.6 50.1 75.1



#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

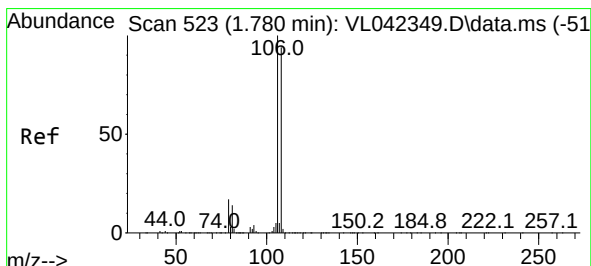
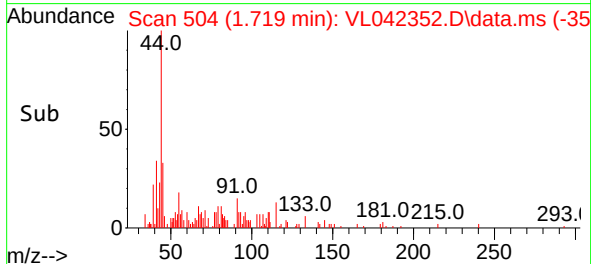
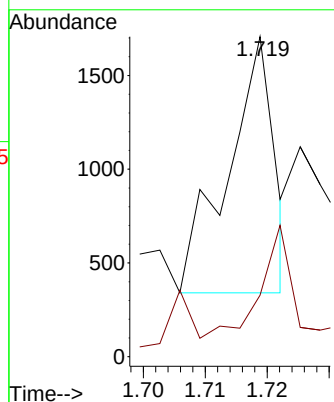
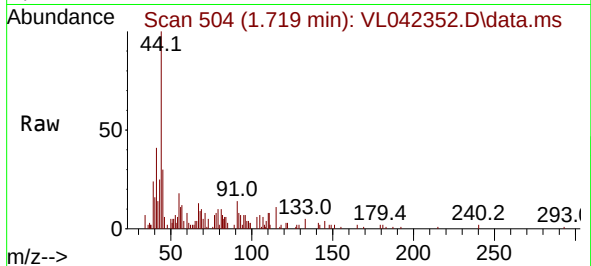




#13
Ethanol
Concen: 0.947 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

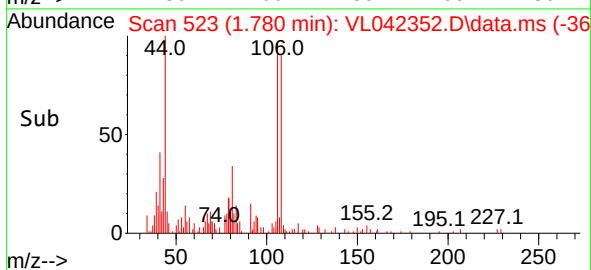
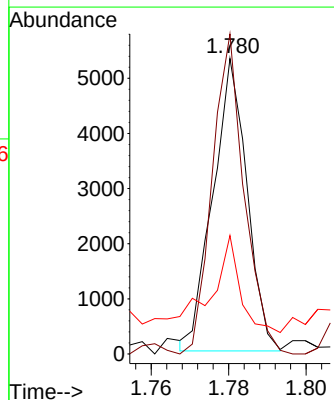
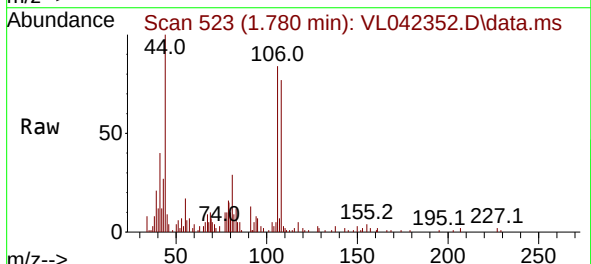
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

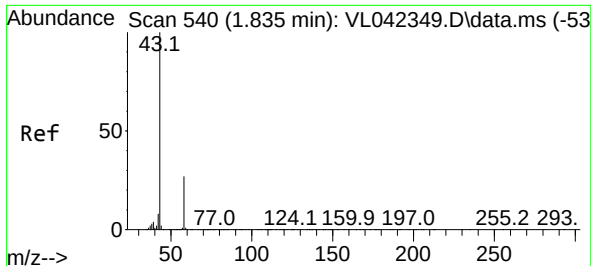
Tgt Ion: 45 Resp: 715
Ion Ratio Lower Upper
45 100
46 0.0 21.9 87.7#



#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#

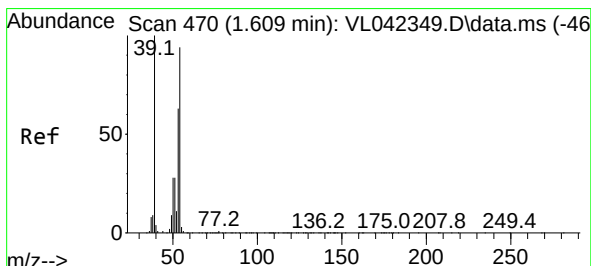
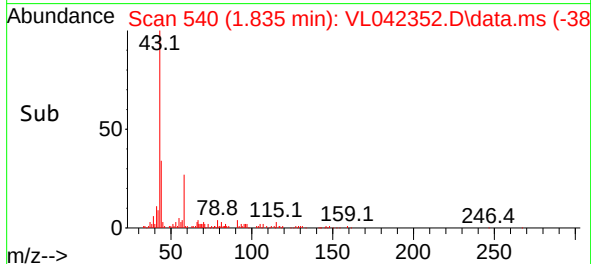
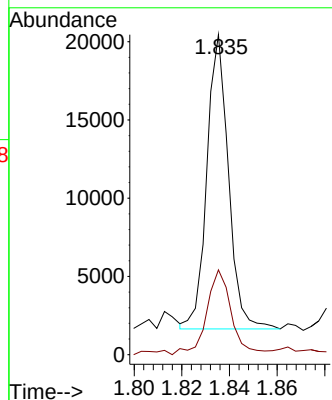
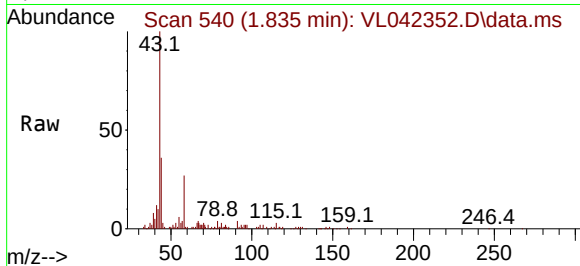




#15
Acetone
Concen: 0.601 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

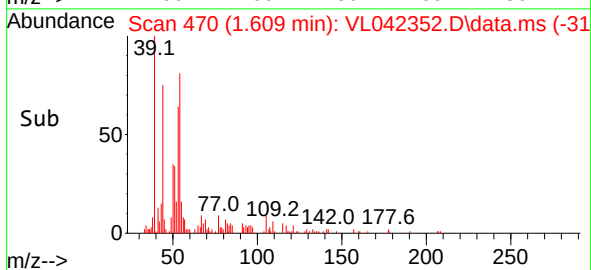
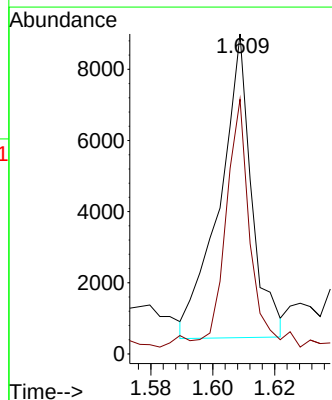
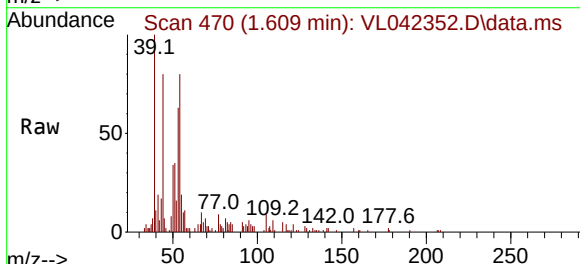
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

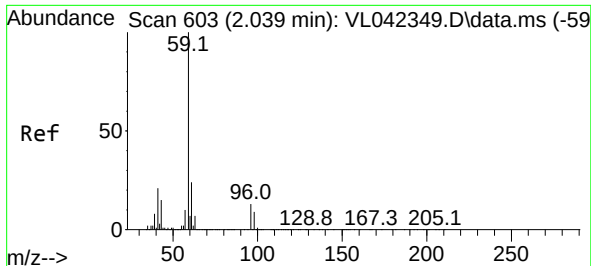
Tgt Ion: 43 Resp: 11859
Ion Ratio Lower Upper
43 100
58 41.7 22.4 33.6#



#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 :

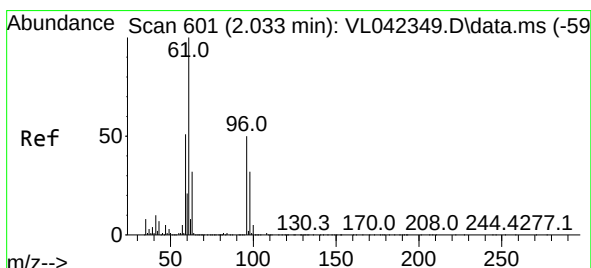
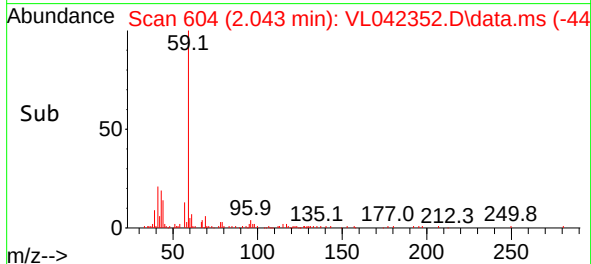
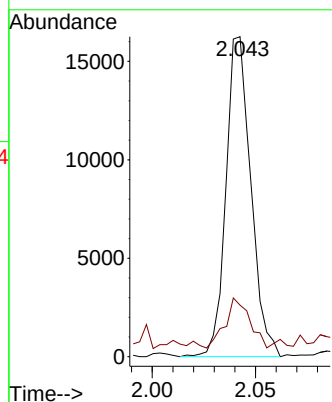
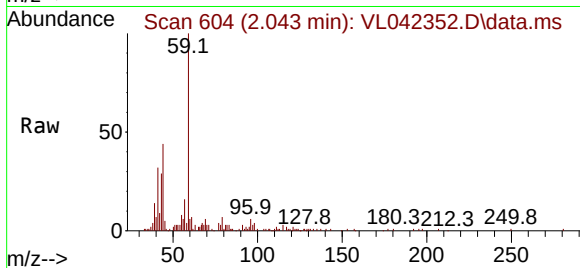
VSTDIC0.5

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

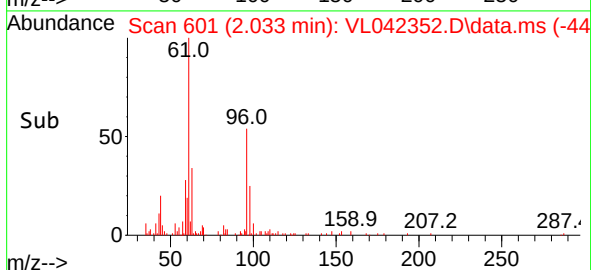
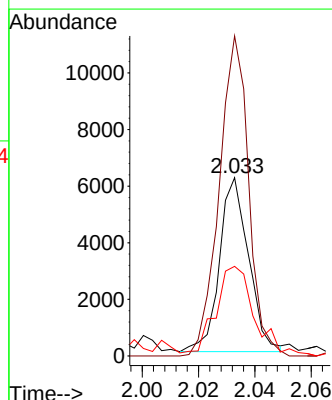
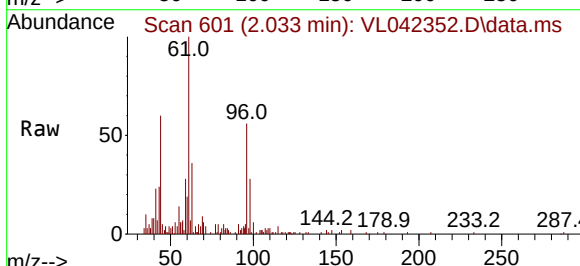
Tgt Ion: 96 Resp: 4430

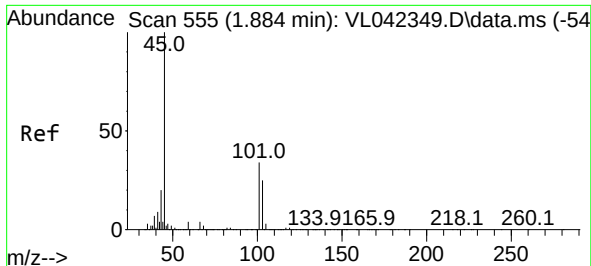
Ion Ratio Lower Upper

96 100

61 183.9 160.2 240.2

98 49.7 51.0 76.4#

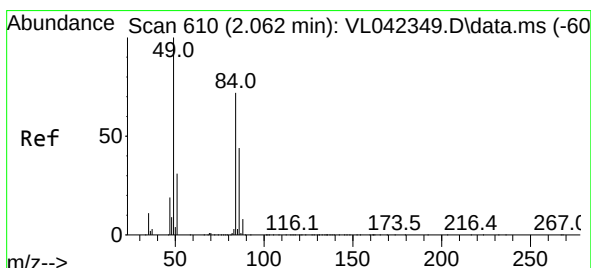
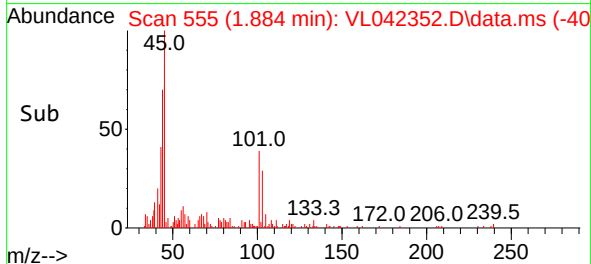
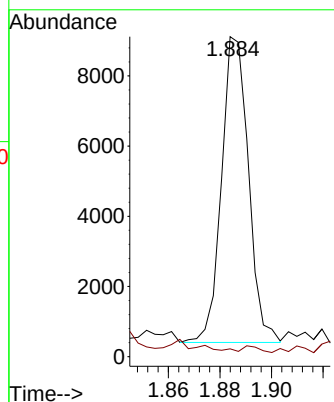
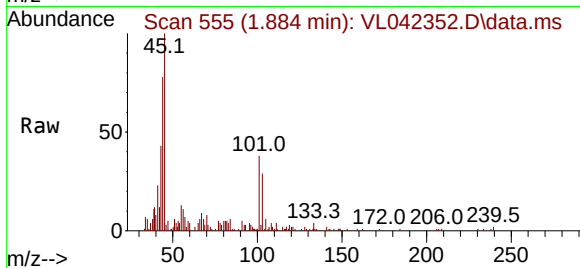




#19
Isopropyl Alcohol
Concen: 0.577 ppbv
RT: 1.884 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

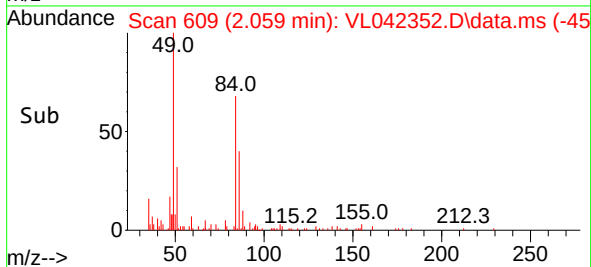
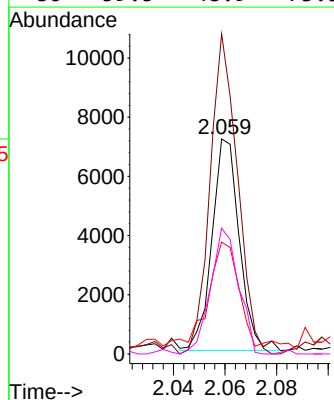
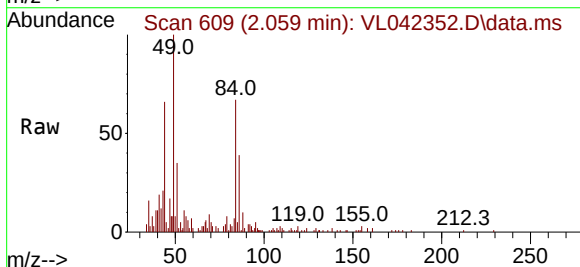
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

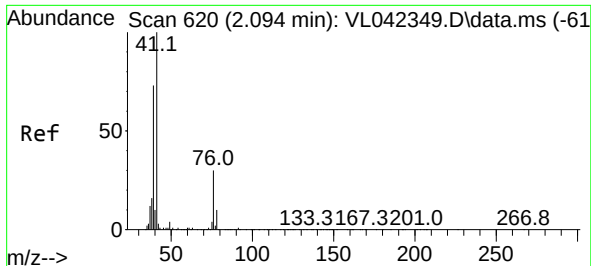
Tgt Ion: 45 Resp: 6327
Ion Ratio Lower Upper
45 100
58 3.8 34.5 51.7#



#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

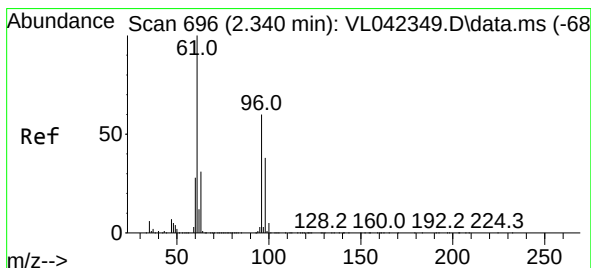
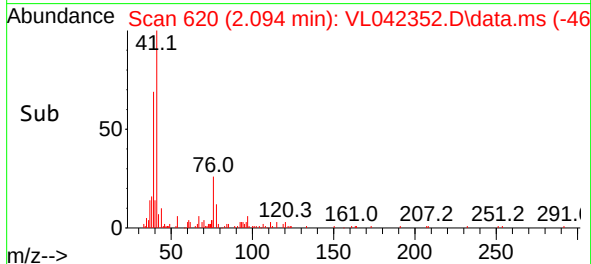
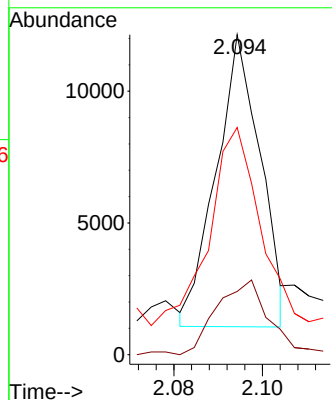
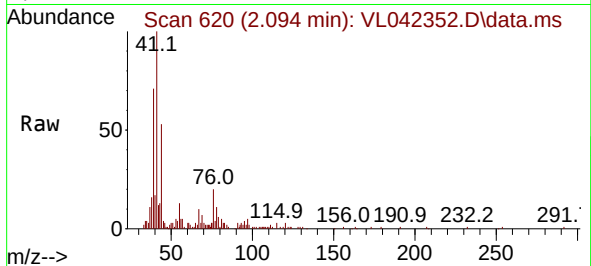




#21
 Allyl Chloride
 Concen: 0.565 ppbv
 RT: 2.094 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: VL042352.D
 Acq: 17 Apr 2025 11:19

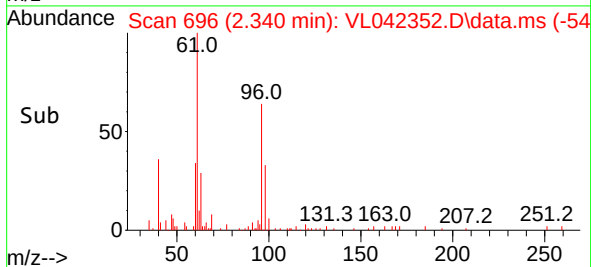
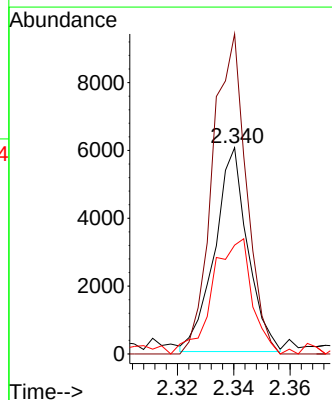
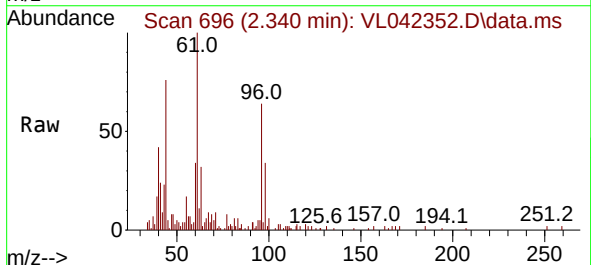
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

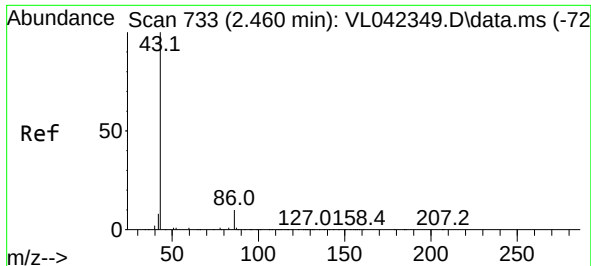
Tgt Ion: 41 Resp: 7692
 Ion Ratio Lower Upper
 41 100
 76 31.1 24.8 37.2
 39 98.8 60.6 90.8#



#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

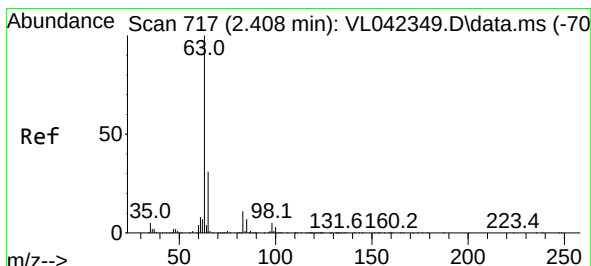
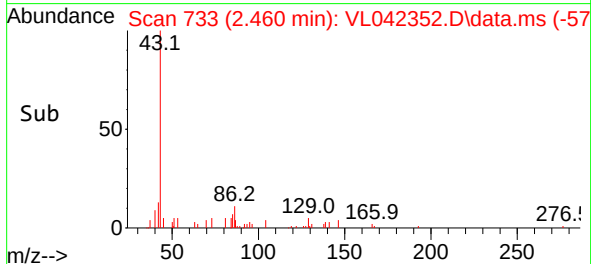
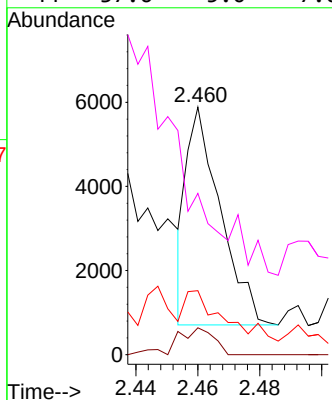
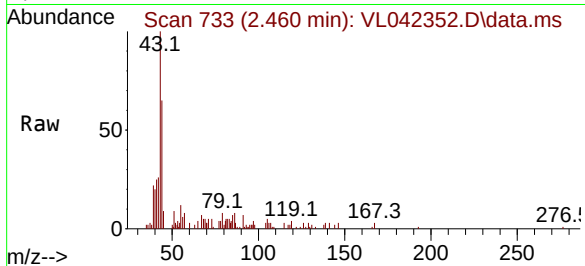




#23
 Vinyl Acetate
 Concen: 0.495 ppbv
 RT: 2.460 min Scan# 717
 Delta R.T. -0.000 min
 Lab File: VL042352.D
 Acq: 17 Apr 2025 11:19

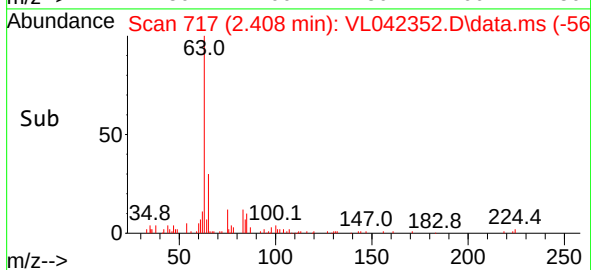
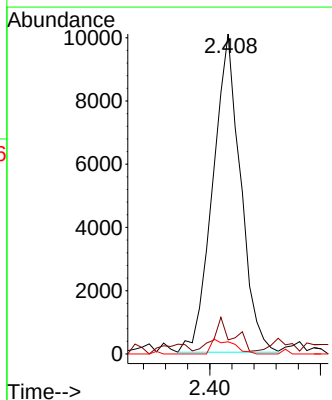
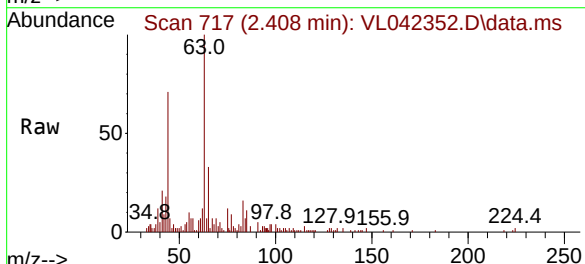
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5

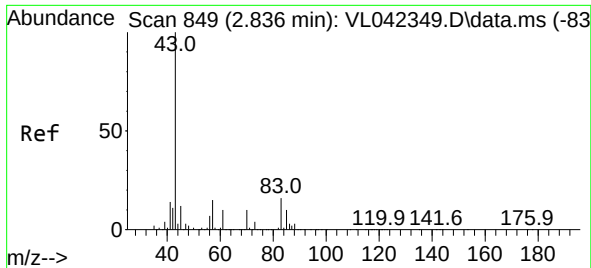
Tgt Ion:	43	Resp:	3953
Ion	Ratio	Lower	Upper
43	100		
86	12.4	6.5	9.7#
42	23.2	7.8	11.8#
44	37.6	5.0	7.6#



#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

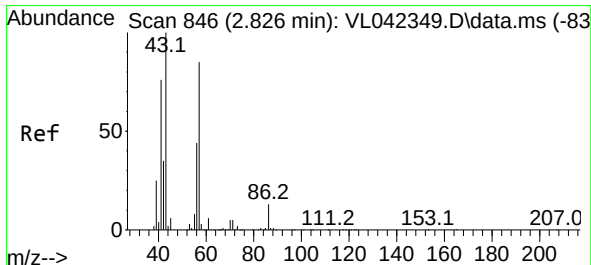
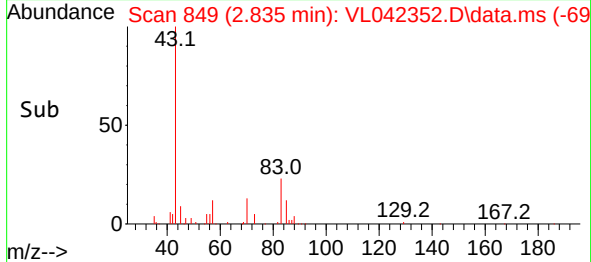
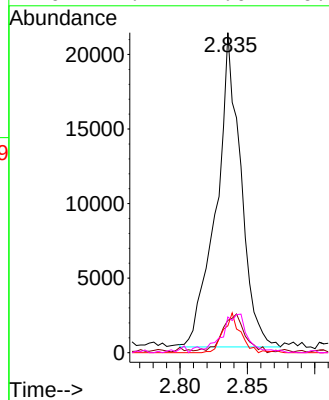
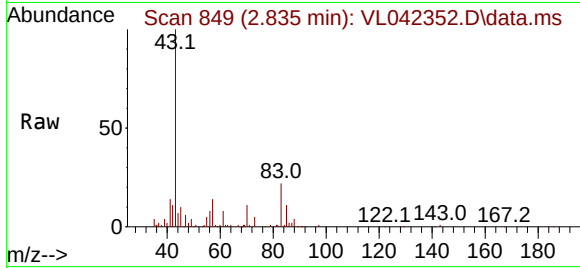




#25
Ethyl Acetate
Concen: 0.548 ppbv
RT: 2.835 min Scan# 84
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

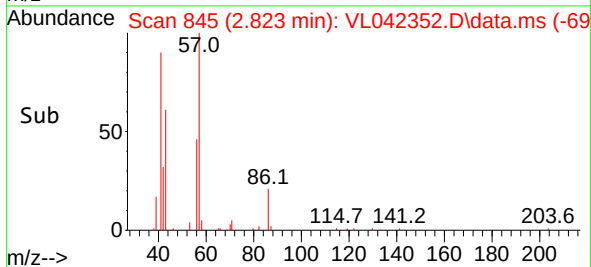
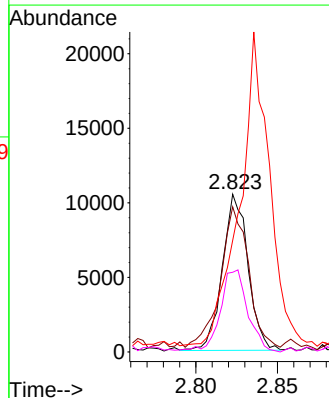
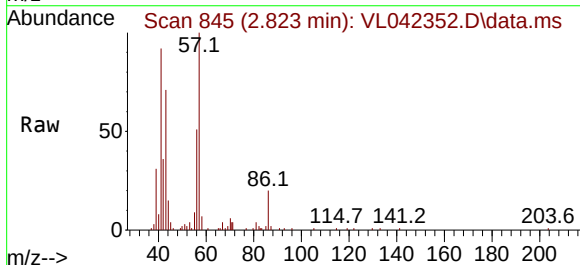
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

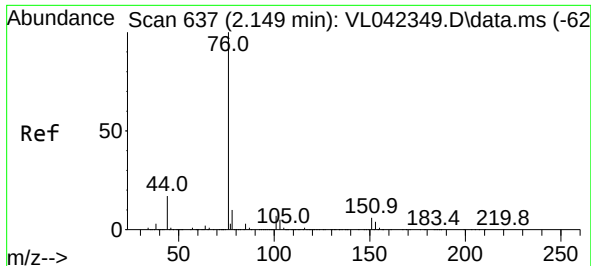
Tgt Ion:	43	Resp:	26686
Ion	Ratio	Lower	Upper
43	100		
45	13.3	8.3	12.5#
61	9.0	7.3	10.9
70	14.1	7.0	10.6#



#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# 61

Delta R.T. -0.000 min

Lab File: VL042352.D

Acq: 17 Apr 2025 11:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC0.5

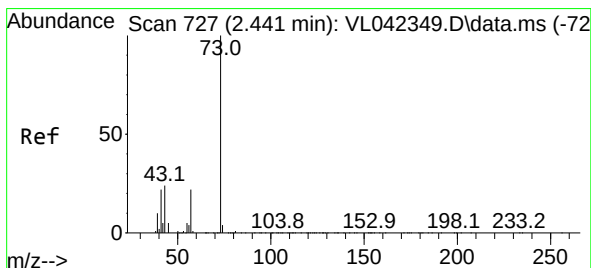
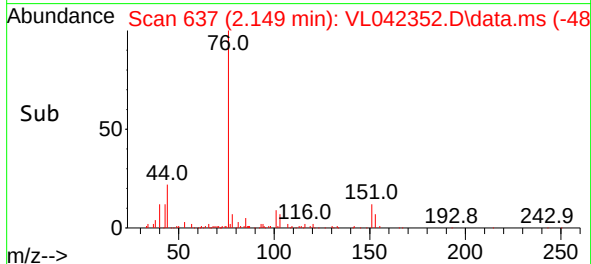
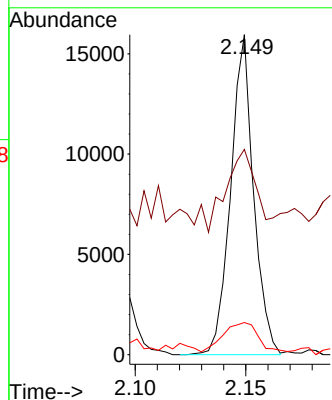
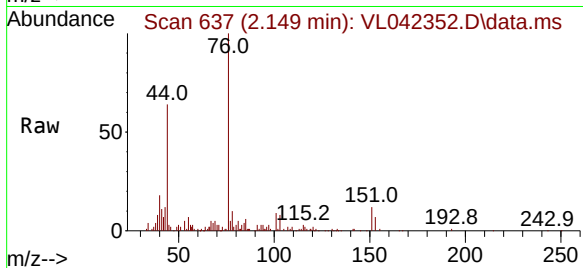
Tgt Ion: 76 Resp: 11472

Ion Ratio Lower Upper

76 100

44 123.7 15.5 23.3#

78 18.8 9.3 13.9#



#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

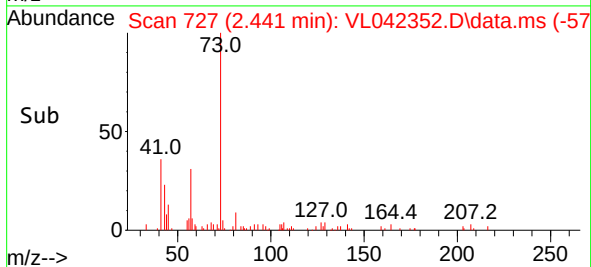
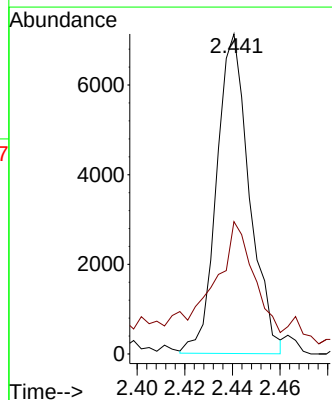
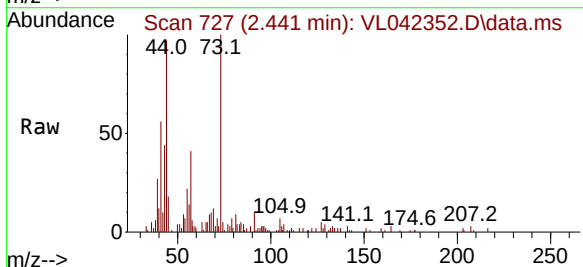
Acq: 17 Apr 2025 11:19

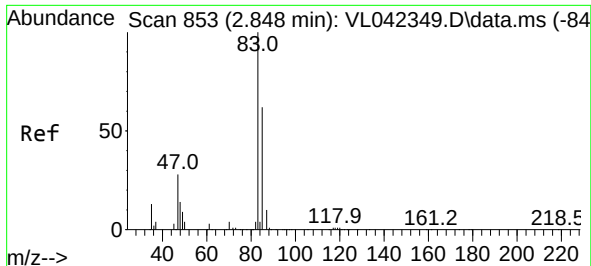
Tgt Ion: 73 Resp: 6833

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 :

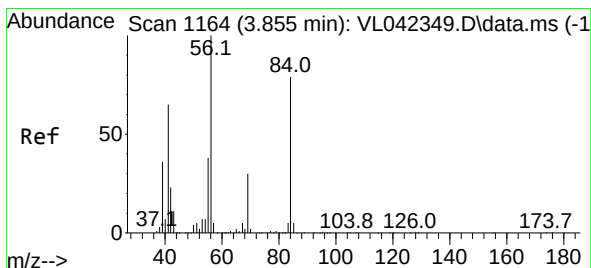
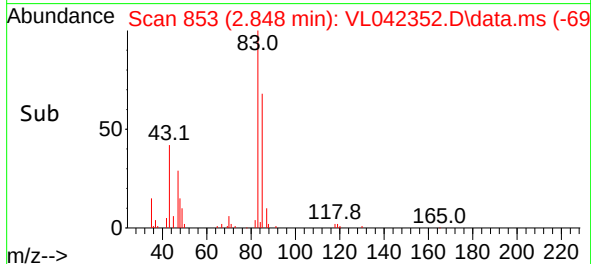
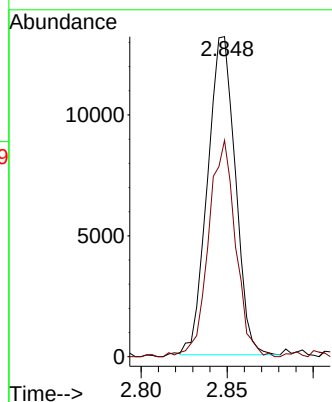
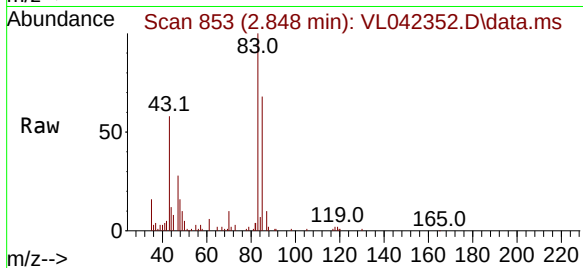
VSTDIC0.5

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

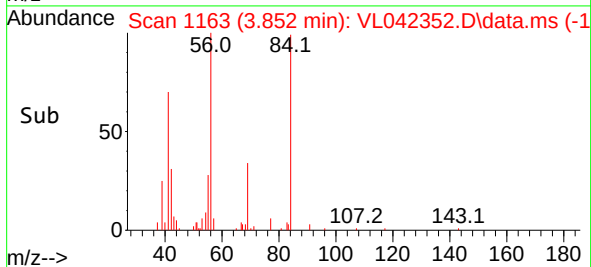
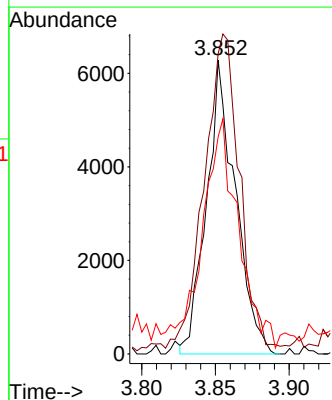
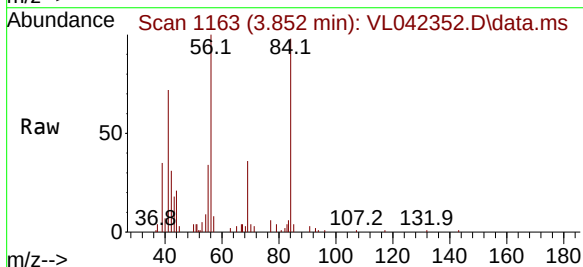
Tgt Ion: 84 Resp: 8572

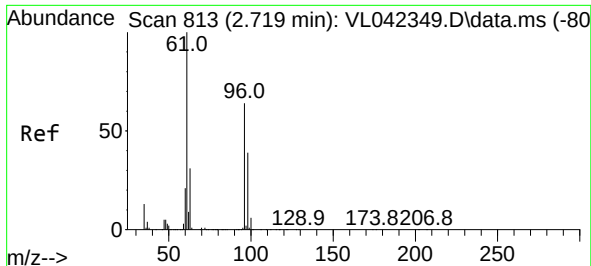
Ion Ratio Lower Upper

84 100

56 132.8 101.0 151.4

41 89.8 67.4 101.0

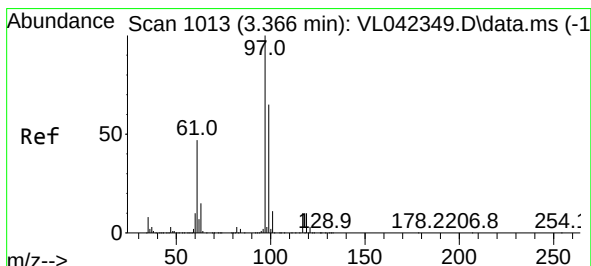
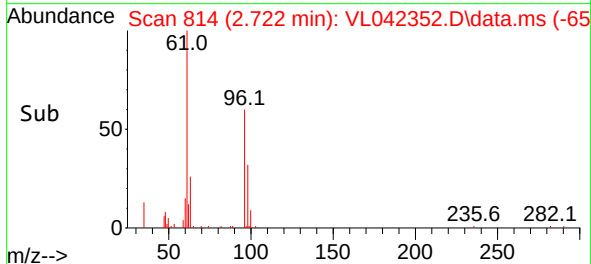
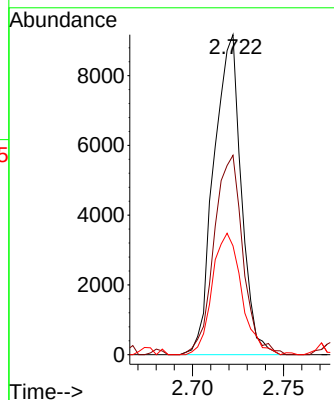
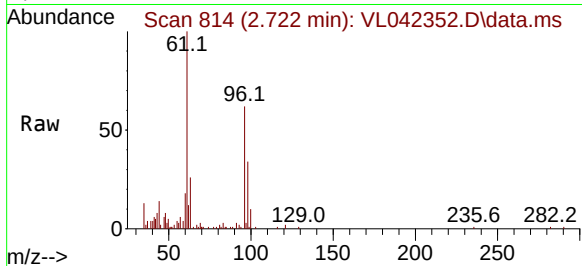




#31
 cis-1,2-Dichloroethene
 Concen: 0.511 ppbv
 RT: 2.722 min Scan# 813
 Delta R.T. 0.003 min
 Lab File: VL042352.D
 Acq: 17 Apr 2025 11:19

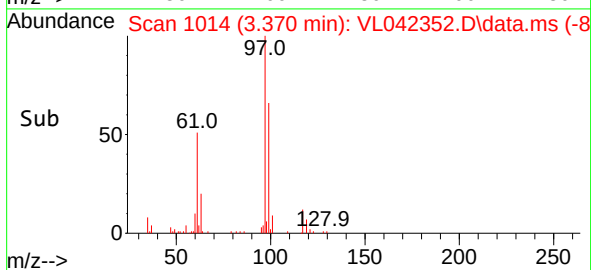
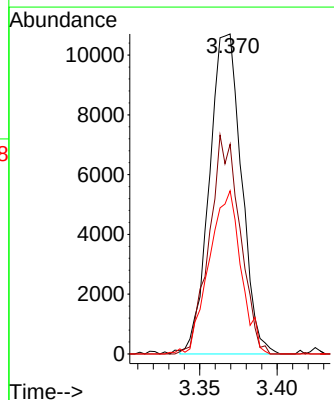
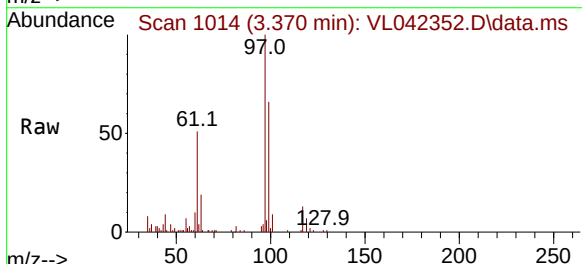
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

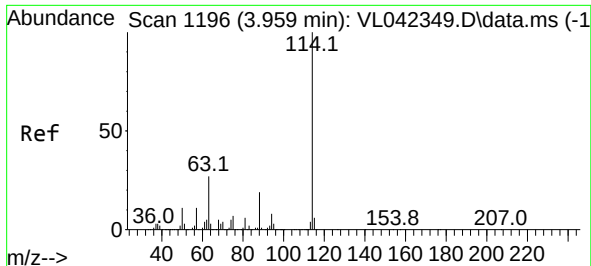
Tgt Ion: 61 Resp: 9571
 Ion Ratio Lower Upper
 61 100
 96 62.3 50.8 76.2
 98 34.0 30.9 46.3



#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

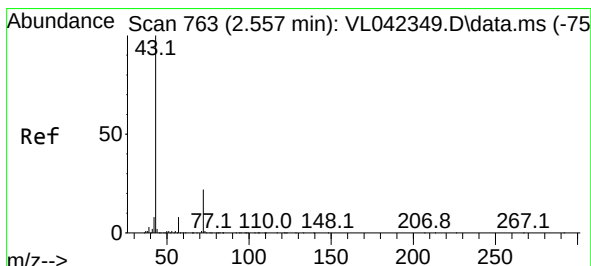
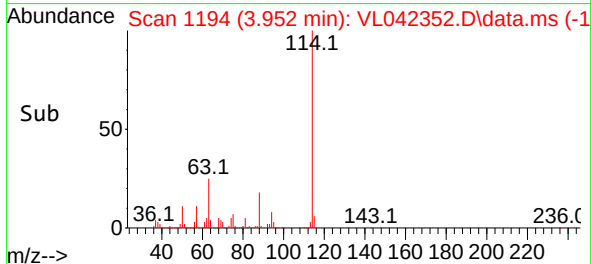
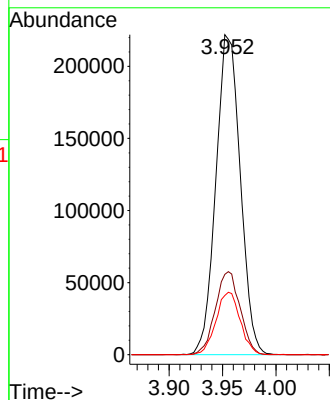
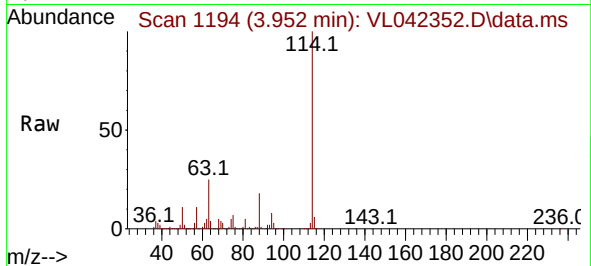




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.952 min Scan# 1194
 Delta R.T. -0.006 min
 Lab File: VL042352.D
 Acq: 17 Apr 2025 11:19

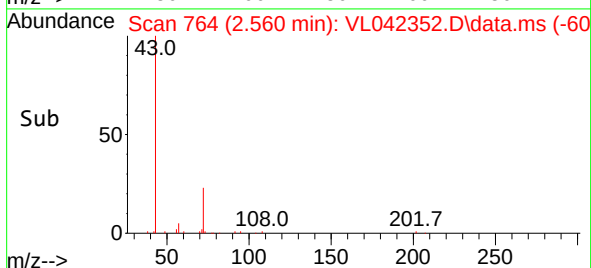
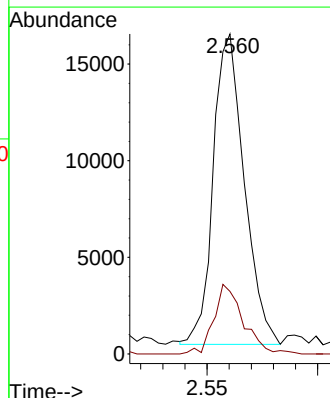
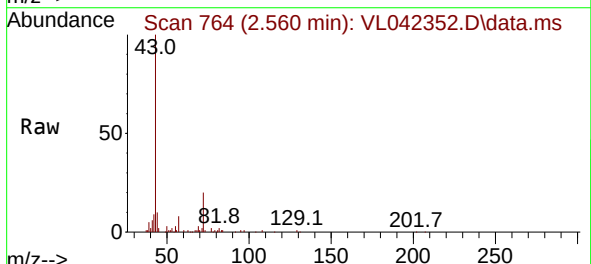
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.5

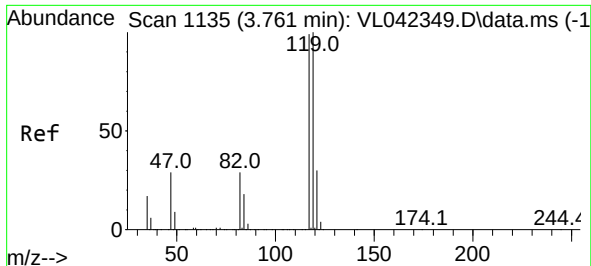
Tgt Ion:114 Resp: 353137
 Ion Ratio Lower Upper
 114 100
 63 26.3 21.8 32.6
 88 19.4 15.5 23.3



#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

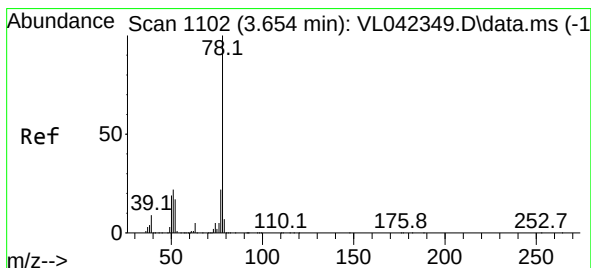
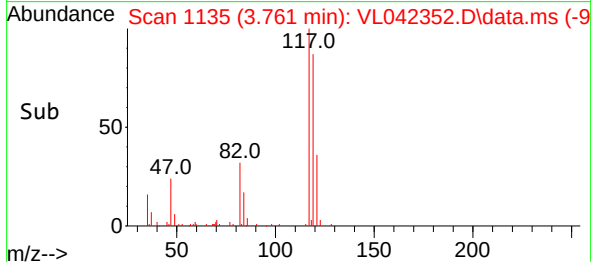
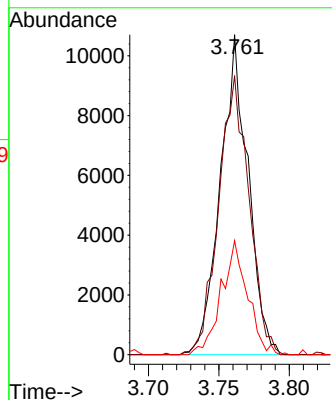
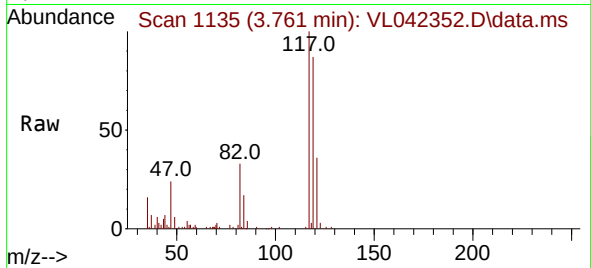




#35
Carbon Tetrachloride
Concen: 0.459 ppbv
RT: 3.761 min Scan# 1135
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

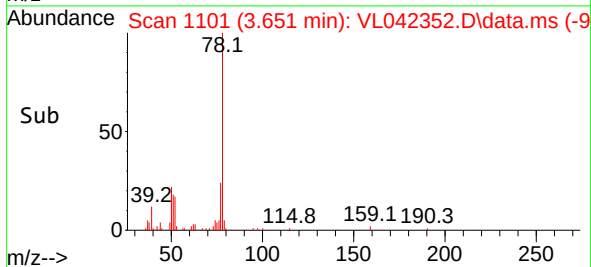
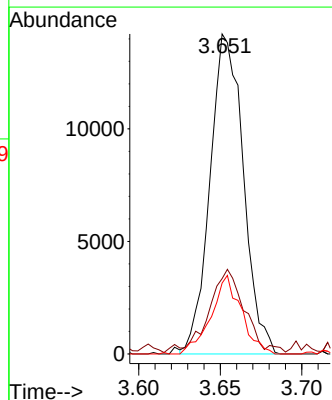
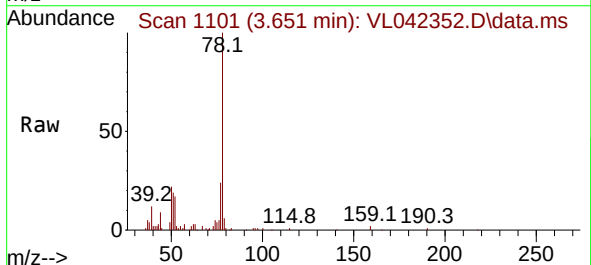
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

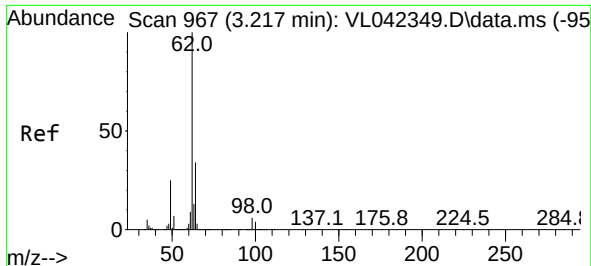
Tgt Ion: 117 Resp: 14683
Ion Ratio Lower Upper
117 100
119 87.2 80.5 120.7
121 35.6 24.2 36.2



#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

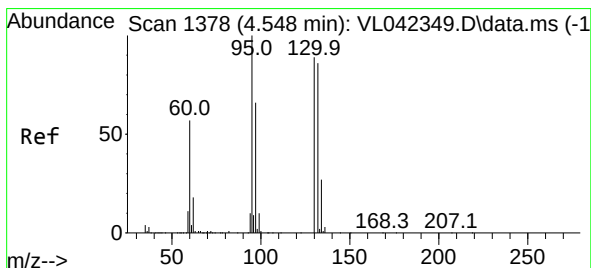
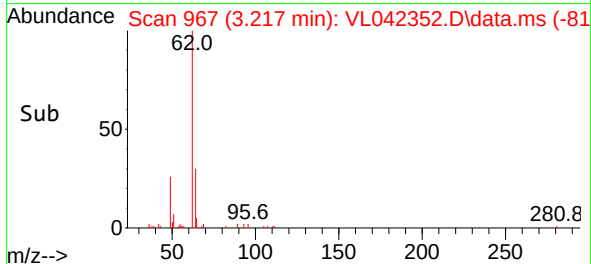
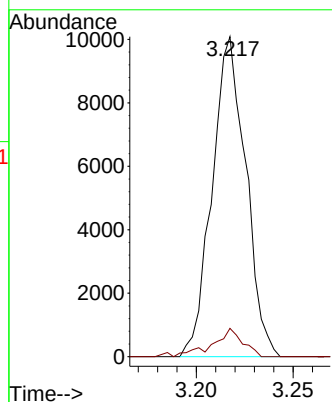
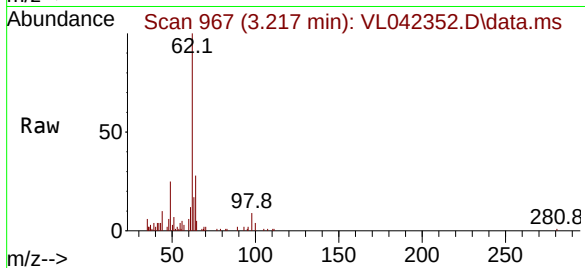




#37
 1,2-Dichloroethane
 Concen: 0.533 ppbv
 RT: 3.217 min Scan# 967
 Delta R.T. -0.000 min
 Lab File: VL042352.D
 Acq: 17 Apr 2025 11:19

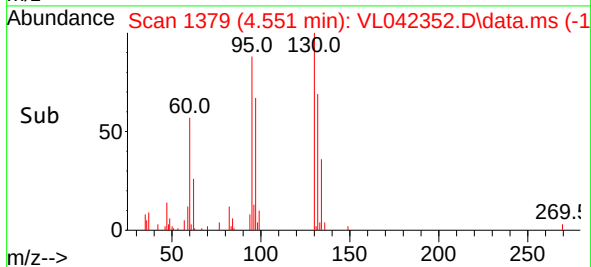
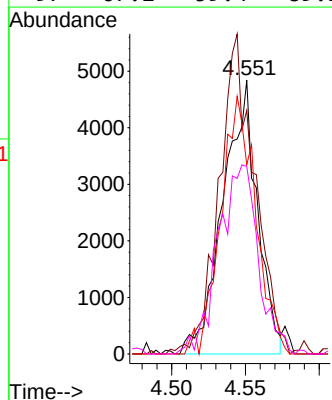
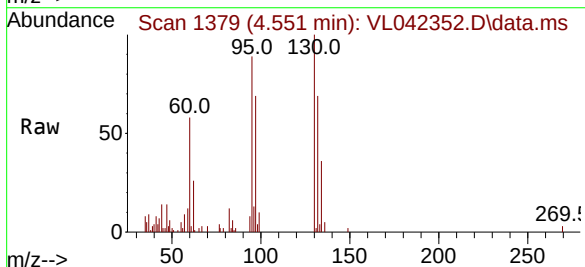
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

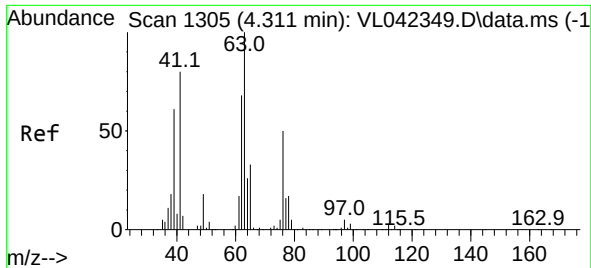
Tgt Ion: 62 Resp: 12194
 Ion Ratio Lower Upper
 62 100
 98 8.1 5.1 7.7#



#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

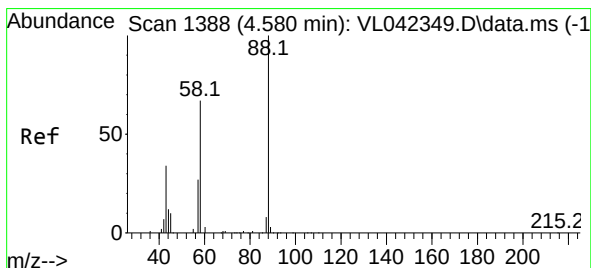
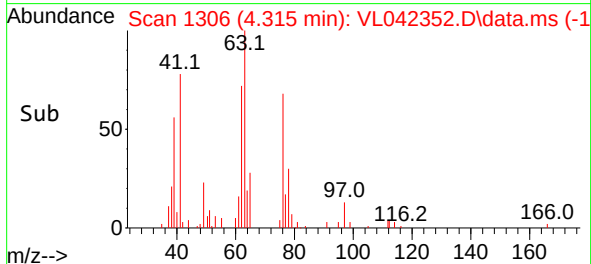
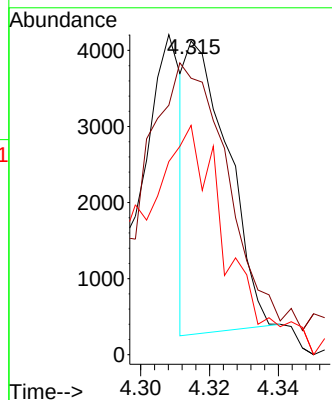
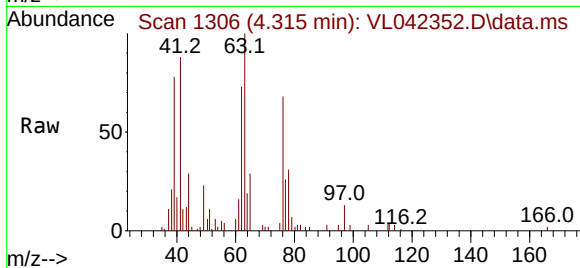
Tgt Ion: 63 Resp: 3195

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

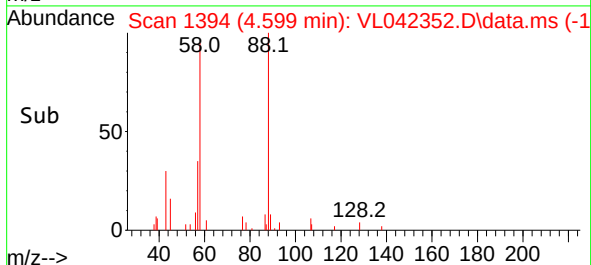
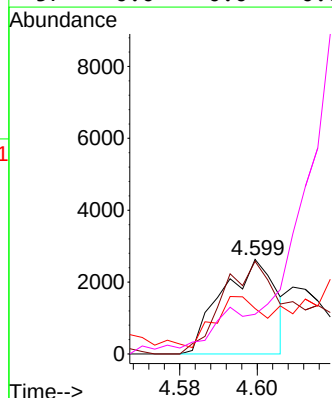
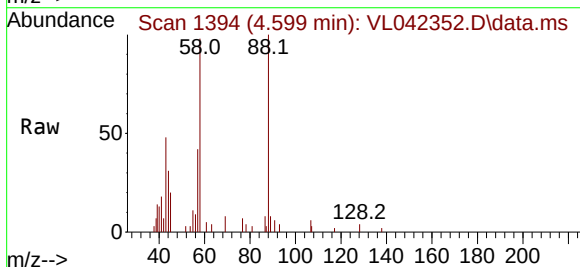
Ion Ratio Lower Upper

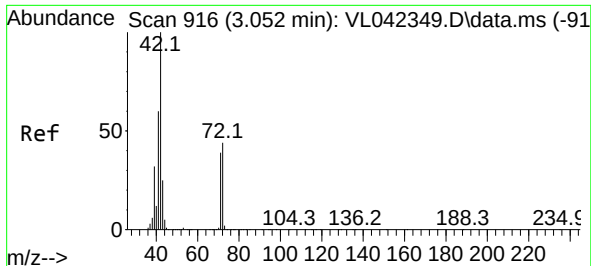
88 100

58 214.8 61.4 92.0#

43 0.0 23.2 34.8#

57 0.0 0.0 0.0

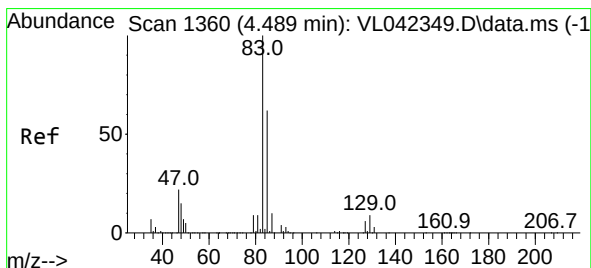
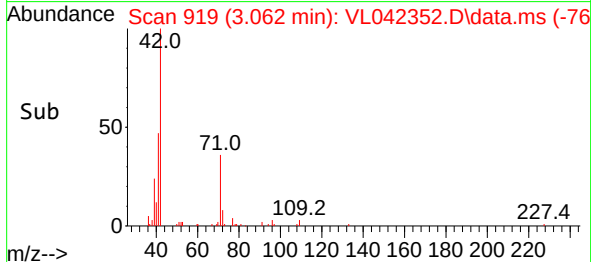
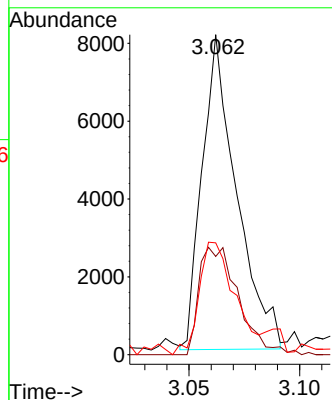
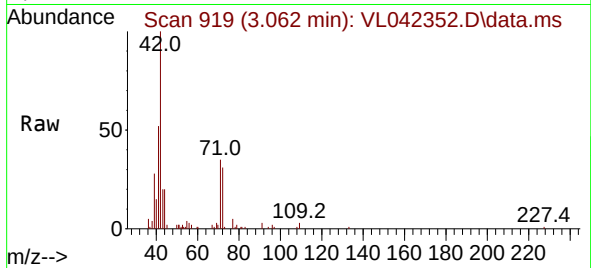




#41
Tetrahydrofuran
Concen: 0.544 ppbv
RT: 3.062 min Scan# 916
Delta R.T. 0.010 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

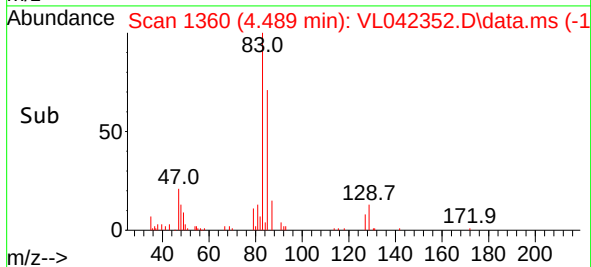
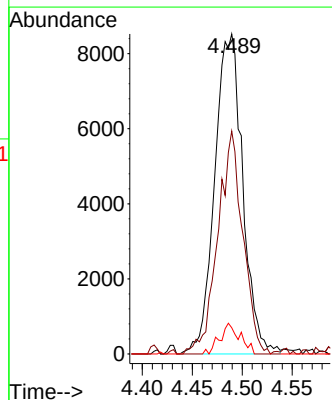
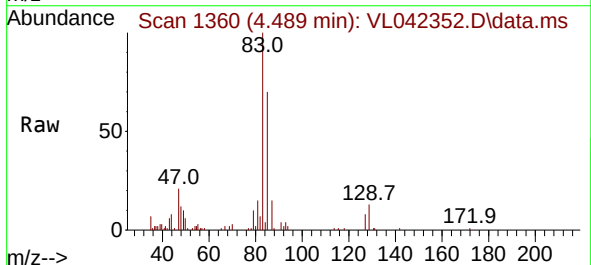
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

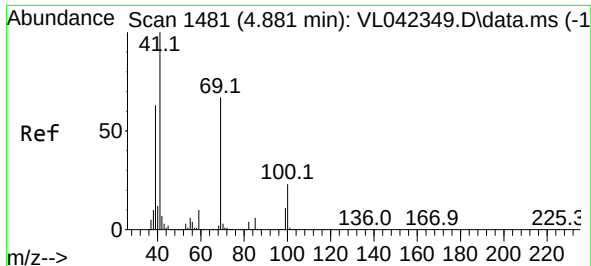
Tgt Ion:	42	Resp:	8773
Ion	Ratio	Lower	Upper
42	100		
72	39.3	32.3	48.5
71	44.9	31.4	47.2



#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

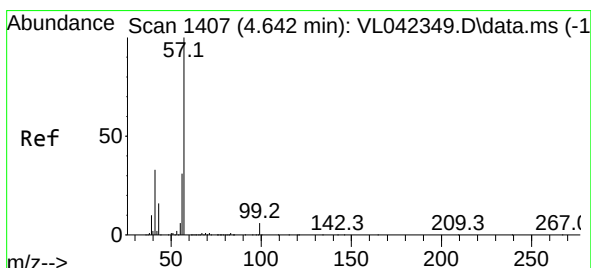
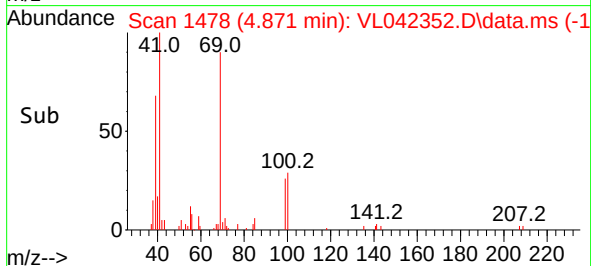
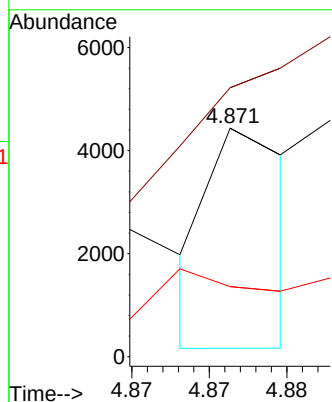
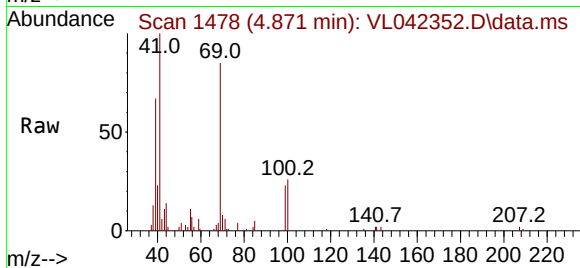
Tgt Ion: 69 Resp: 1556

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

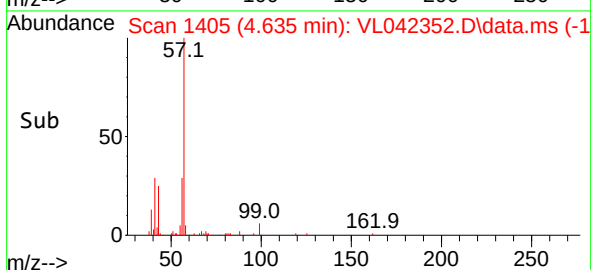
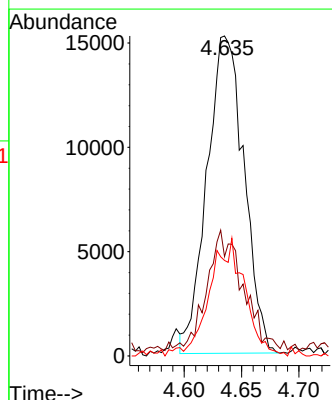
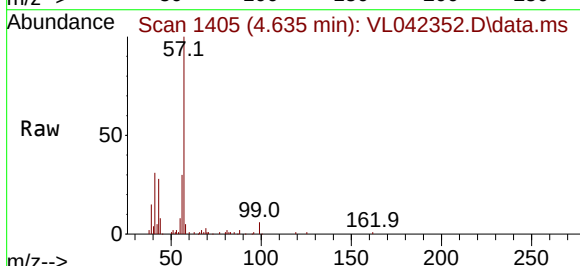
Tgt Ion: 57 Resp: 34170

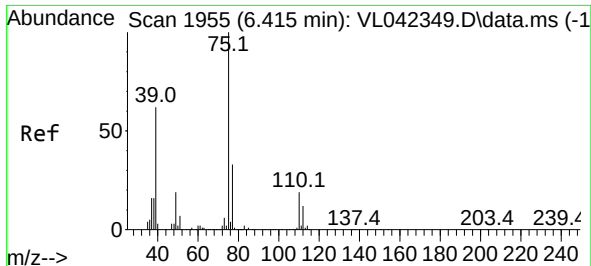
Ion Ratio Lower Upper

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_1

ClientSampleId :

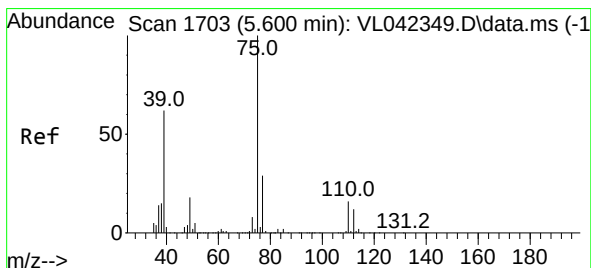
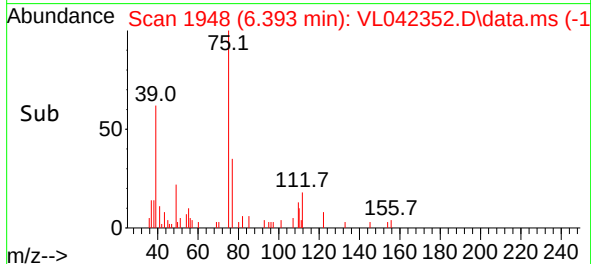
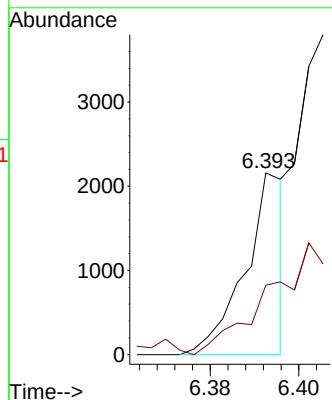
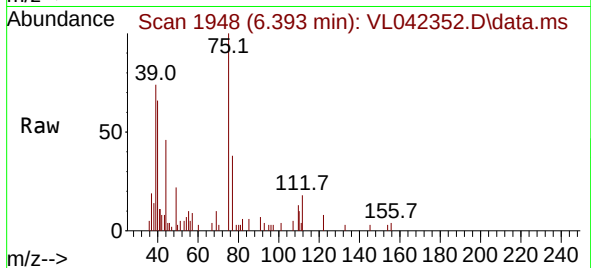
VSTDIC0.5

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

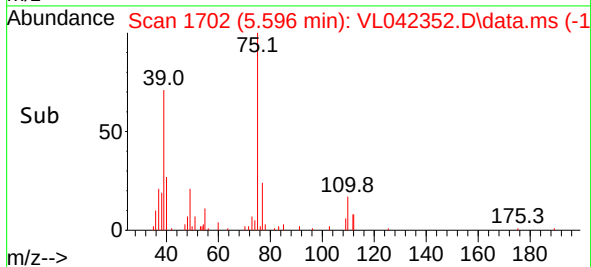
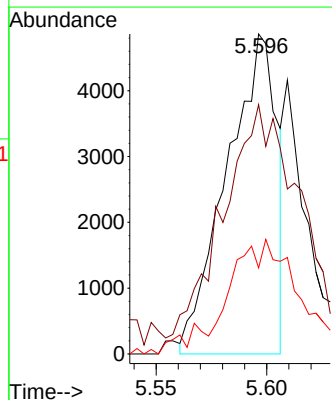
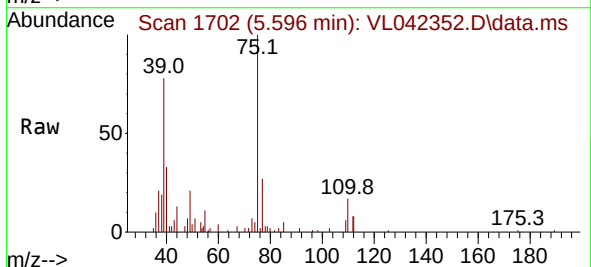
Tgt Ion: 75 Resp: 7634

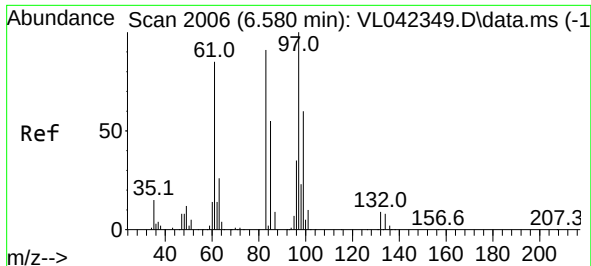
Ion Ratio Lower Upper

75 100

39 67.9 50.0 75.0

77 21.6 23.0 34.6#



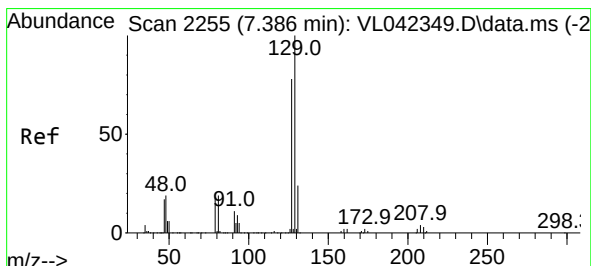
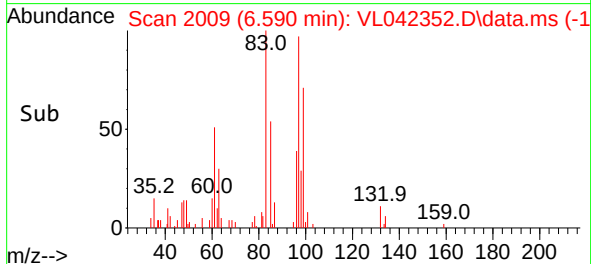
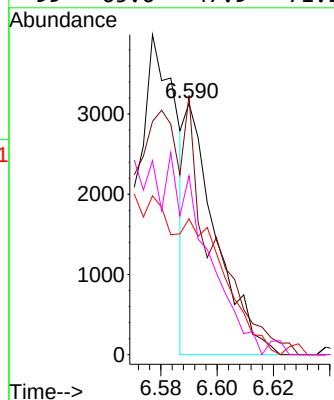
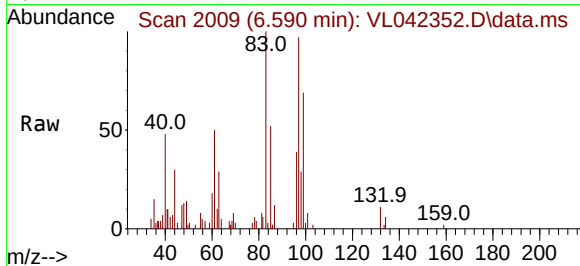


#47
1,1,2-Trichloroethane
Concen: 0.164 ppbv
RT: 6.590 min Scan# 2009
Delta R.T. 0.010 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

Instrument :
MSVOA_1
ClientSampleId :
VSTDICC0.5

Tgt Ion: 97 Resp: 2374

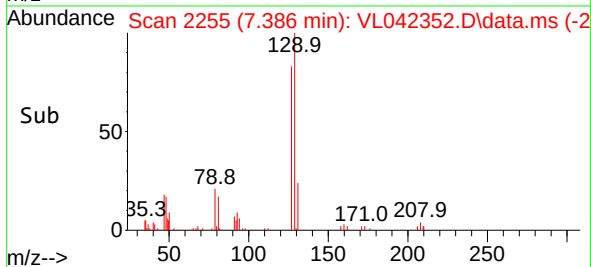
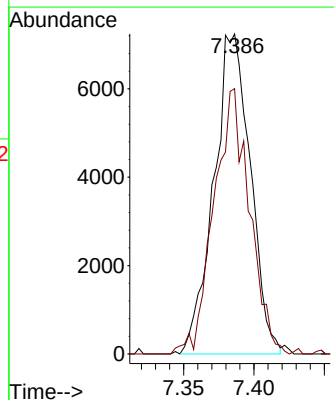
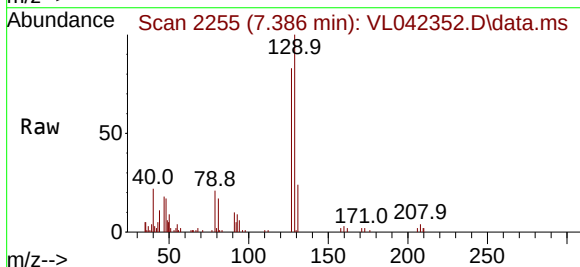
Ion	Ratio	Lower	Upper
97	100		
83	98.5	72.8	109.2
85	54.0	44.2	66.4
99	65.6	47.9	71.9

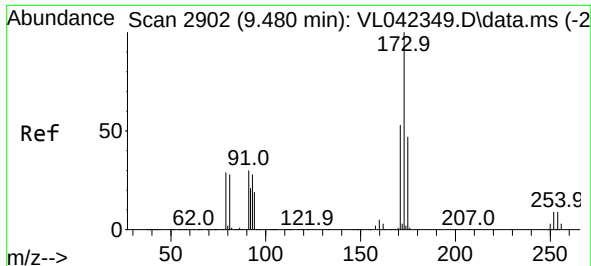


#48
Dibromochloromethane
Concen: 0.514 ppbv
RT: 7.386 min Scan# 2255
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

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_L

ClientSampleId :

VSTDIC0.5

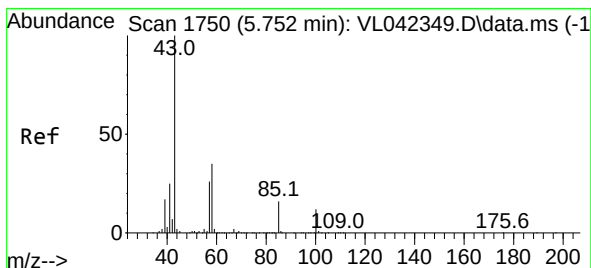
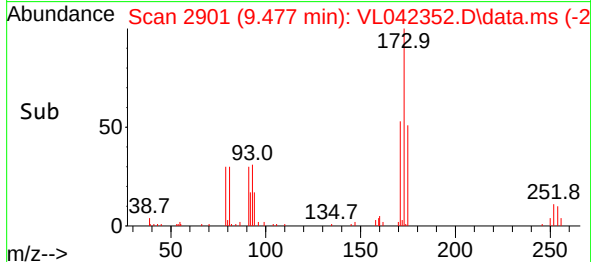
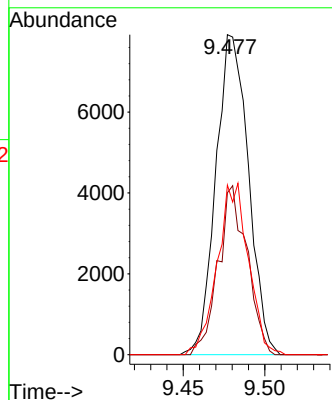
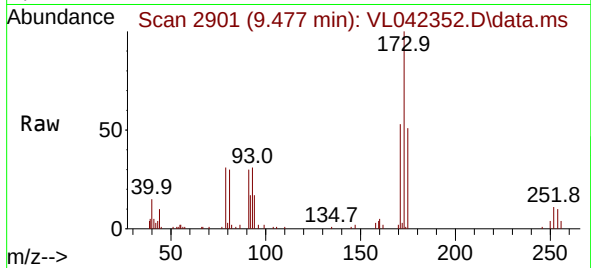
Tgt Ion:173 Resp: 10988

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

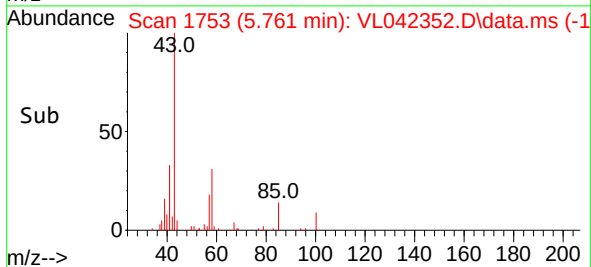
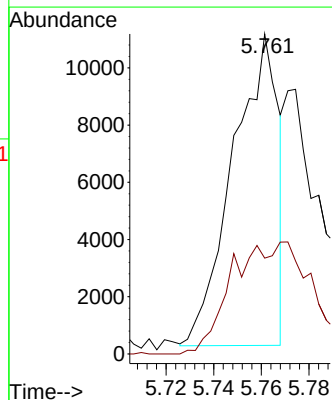
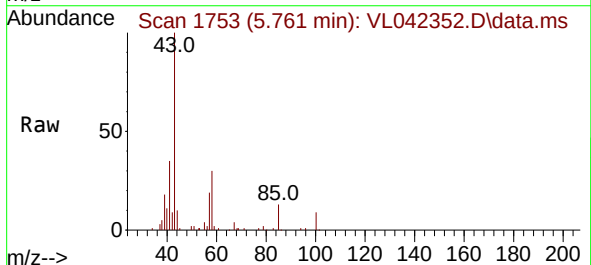
Acq: 17 Apr 2025 11:19

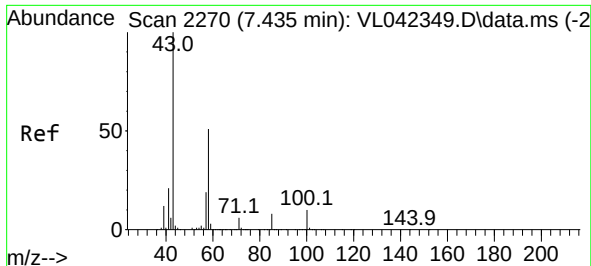
Tgt Ion: 43 Resp: 14380

Ion Ratio Lower Upper

43 100

58 0.0 28.6 43.0#

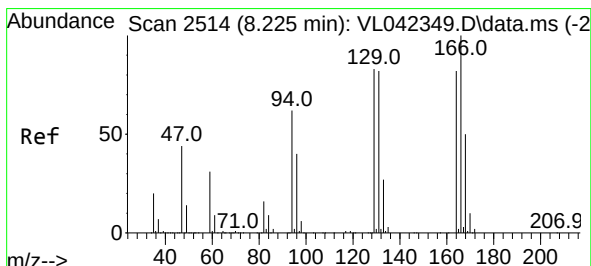
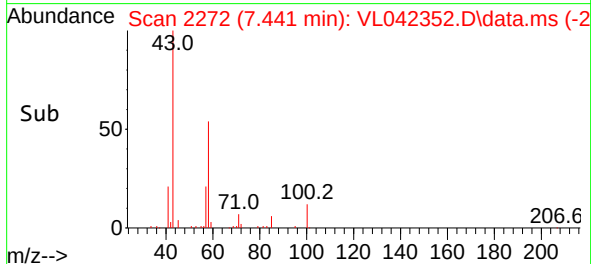
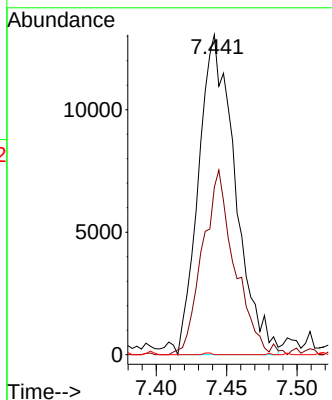
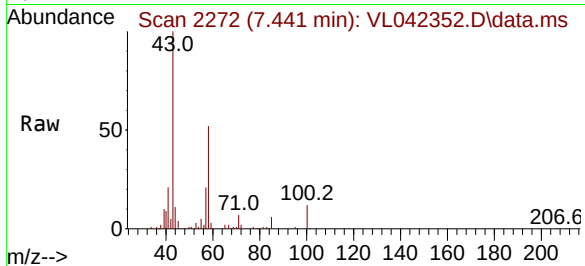




#51
2-Hexanone
Concen: 0.564 ppbv
RT: 7.441 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

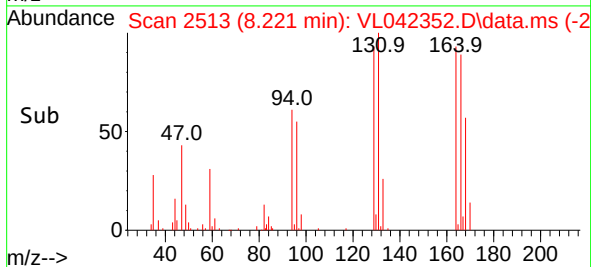
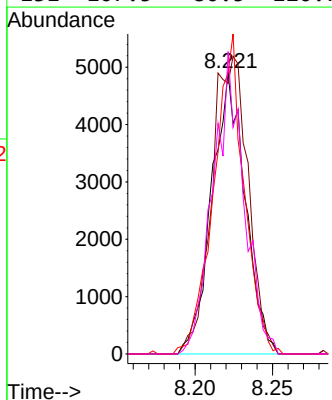
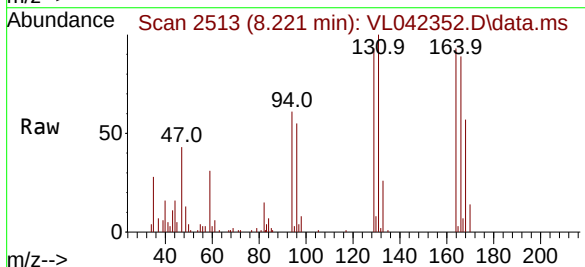
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

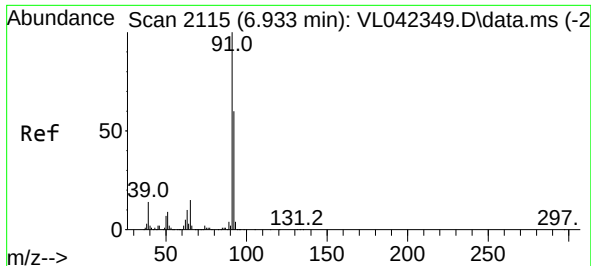
Tgt Ion: 43 Resp: 23684
Ion Ratio Lower Upper
43 100
58 51.7 40.2 60.4
98 0.1 0.1 0.1



#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

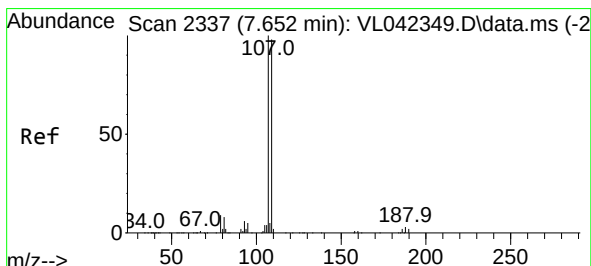
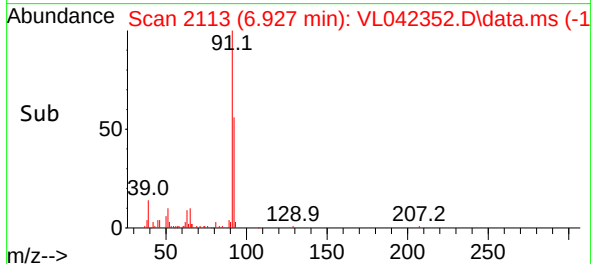
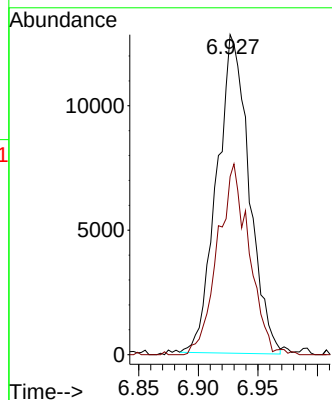
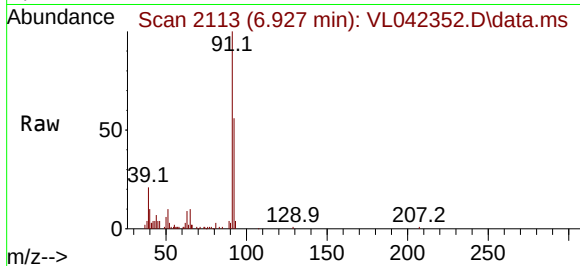




#53
Toluene
Concen: 0.529 ppbv
RT: 6.927 min Scan# 2113
Delta R.T. -0.006 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

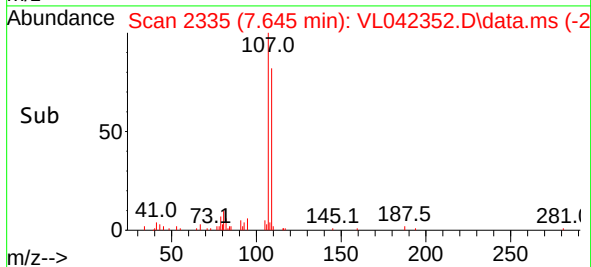
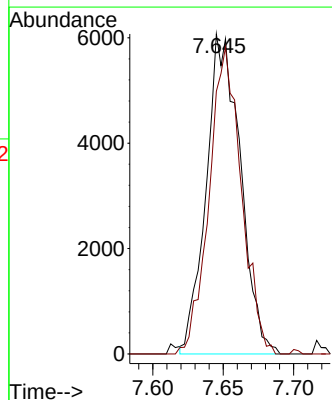
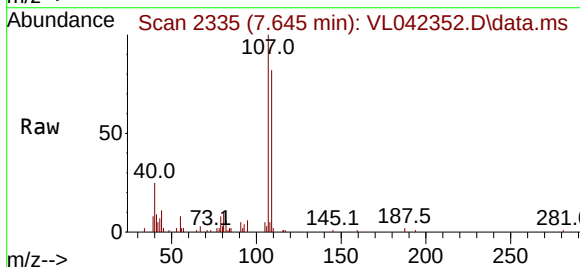
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

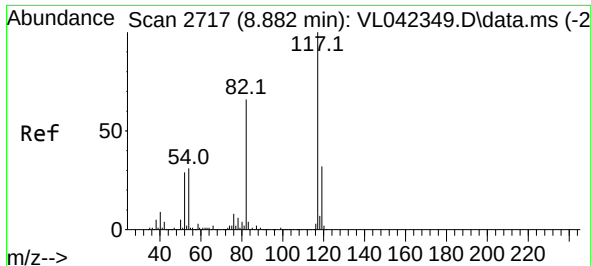
Tgt Ion: 91 Resp: 24200
Ion Ratio Lower Upper
91 100
92 58.4 48.2 72.4



#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

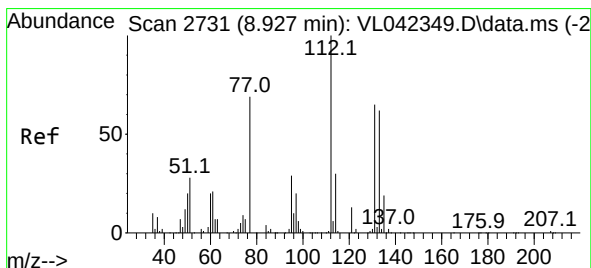
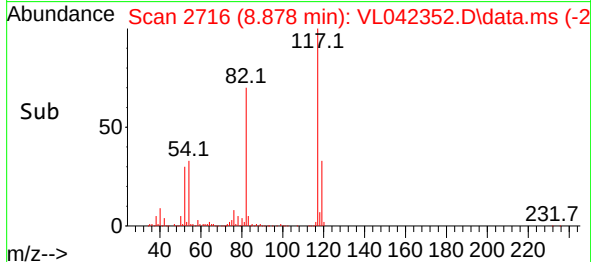
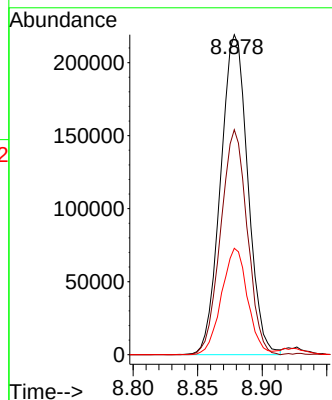
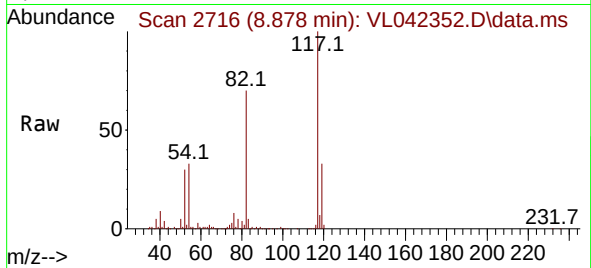




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

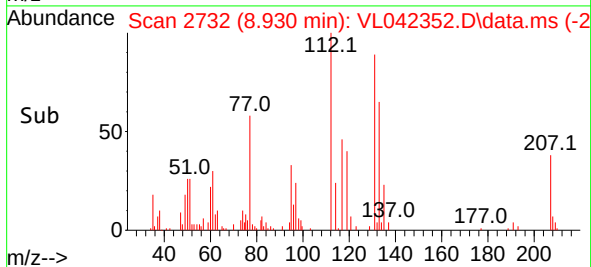
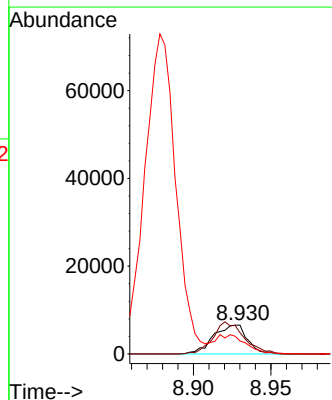
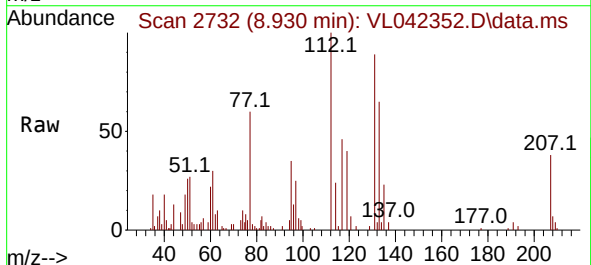
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

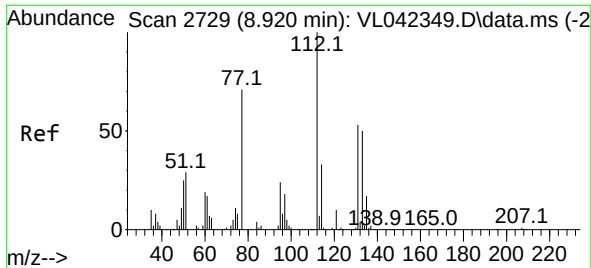
Tgt Ion:117 Resp: 321644
Ion Ratio Lower Upper
117 100
82 69.0 57.8 86.6
119 33.8 25.2 37.8



#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#

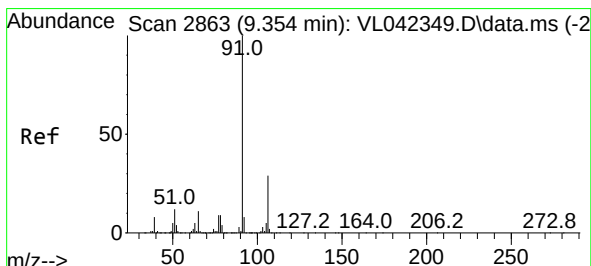
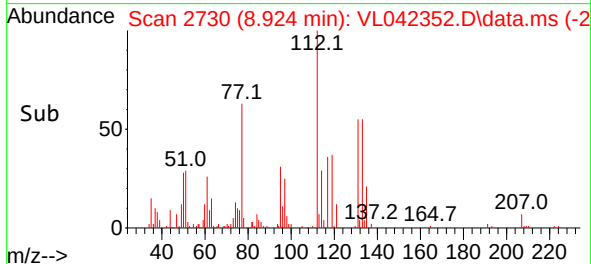
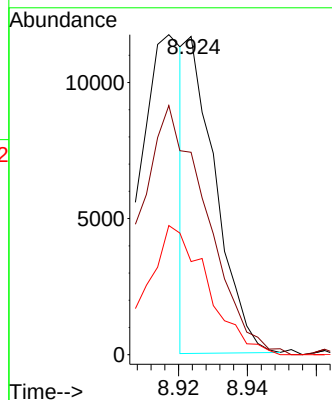
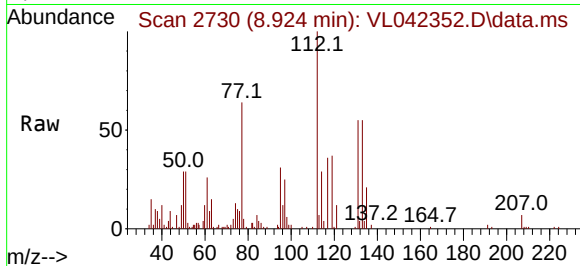




#57
Chlorobenzene
Concen: 0.206 ppbv
RT: 8.924 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

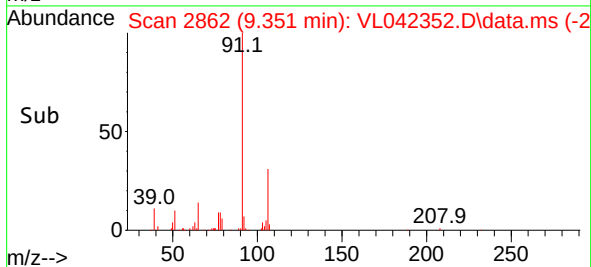
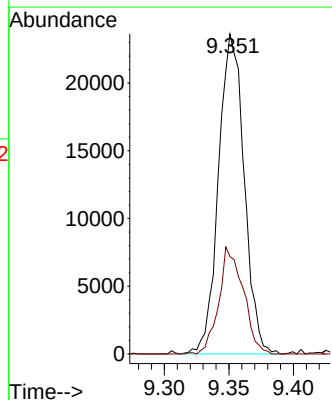
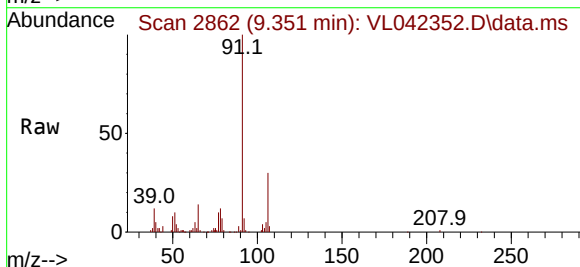
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

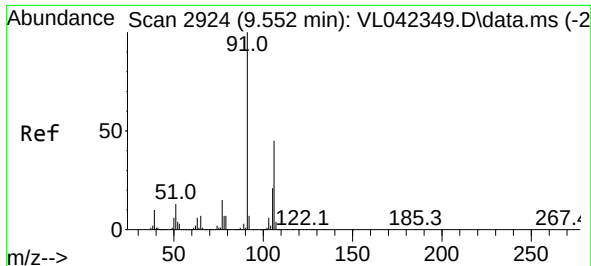
Tgt Ion:	112	Resp:	6884
Ion Ratio	Lower	Upper	
112	100		
77	62.1	57.8	86.6
114	29.5	29.3	35.9



#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 :

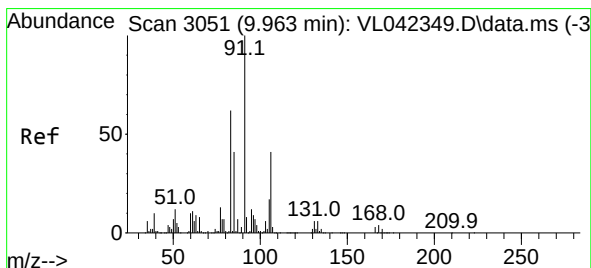
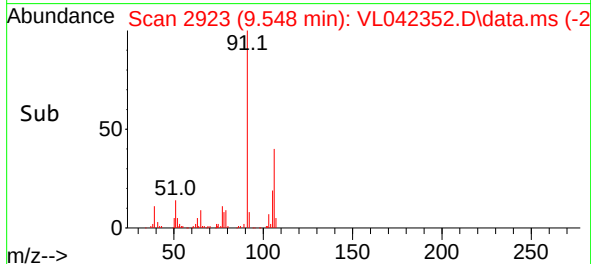
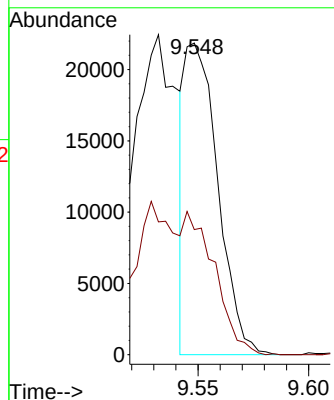
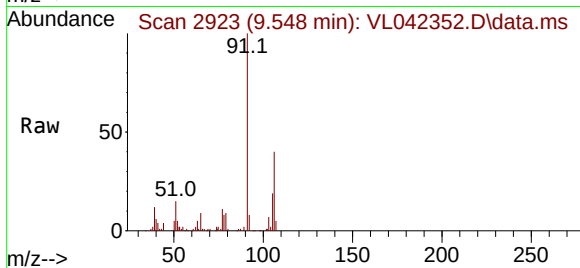
VSTDIC0.5

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

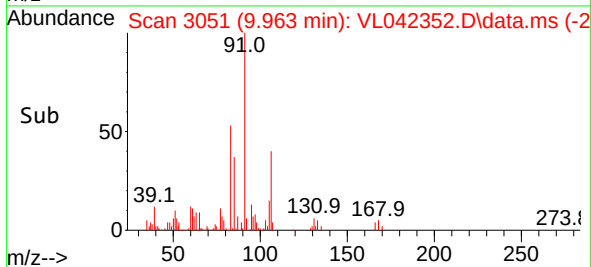
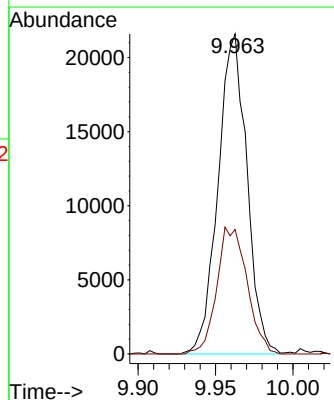
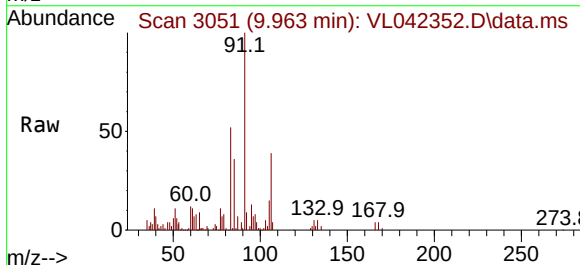
Acq: 17 Apr 2025 11:19

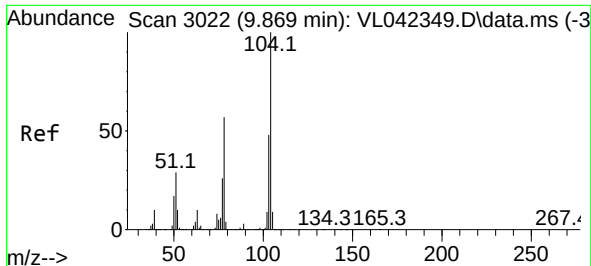
Tgt Ion: 91 Resp: 27983

Ion Ratio Lower Upper

91 100

106 41.6 21.1 63.4

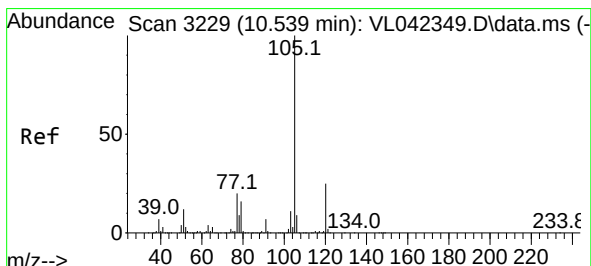
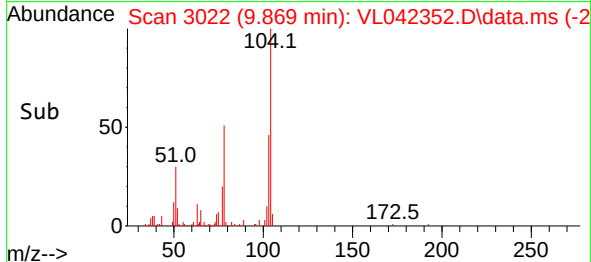
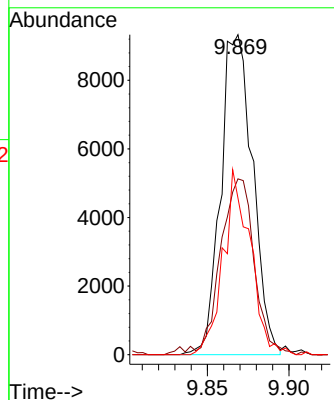
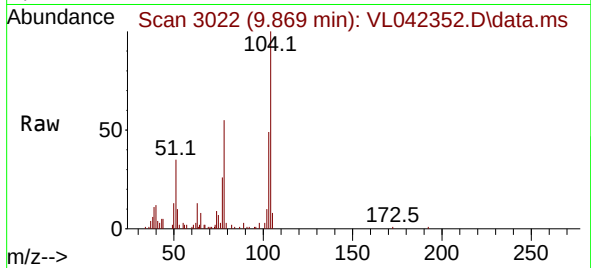




#61
Styrene
Concen: 0.516 ppbv
RT: 9.869 min Scan# 3022
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

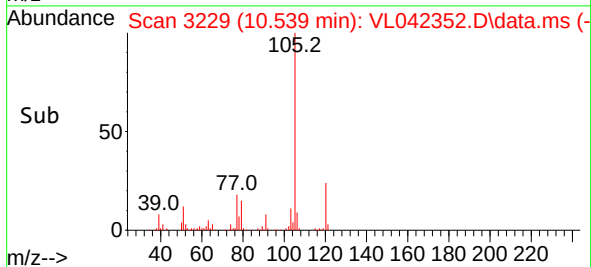
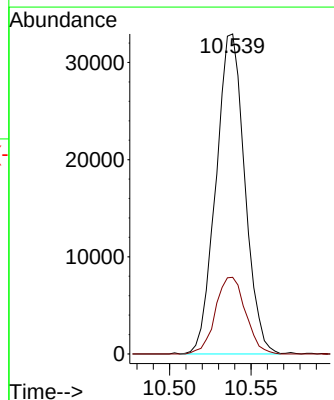
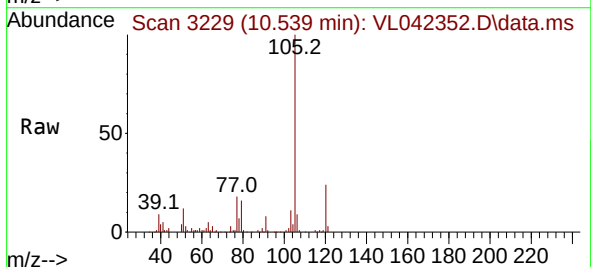
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

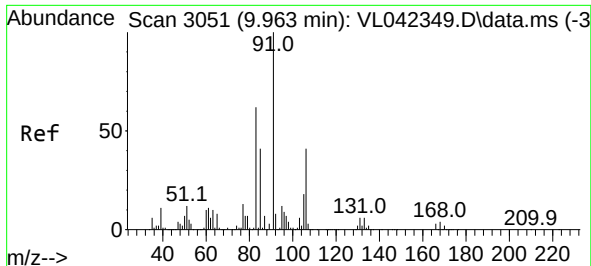
Tgt Ion:104 Resp: 12736
Ion Ratio Lower Upper
104 100
78 58.6 44.6 66.8
103 49.2 37.4 56.0



#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

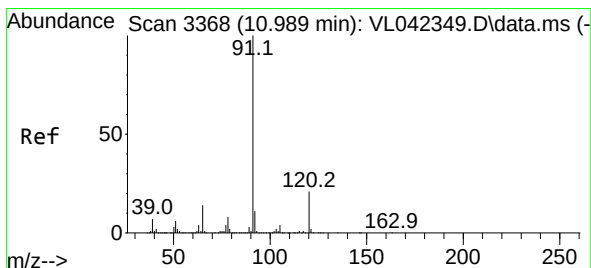
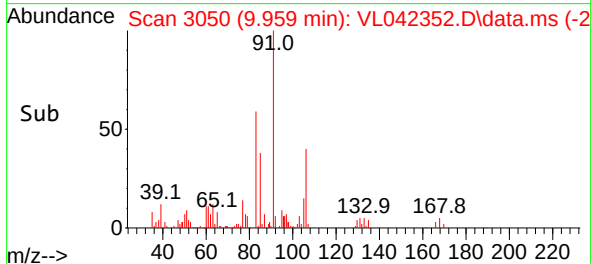
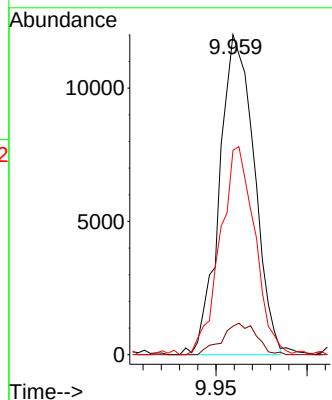
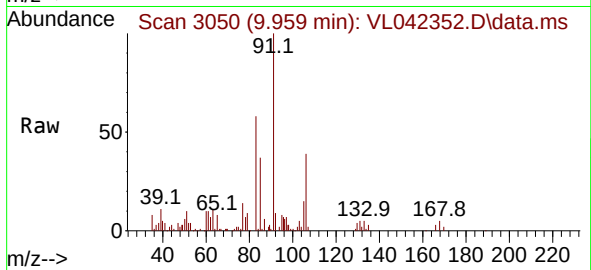
Tgt Ion: 83 Resp: 15920

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

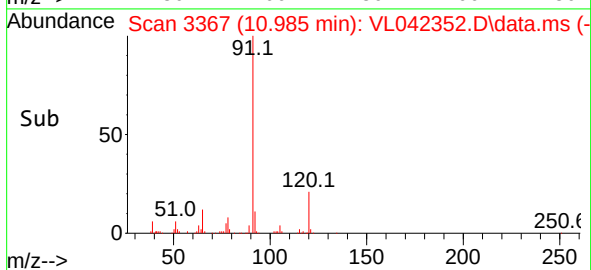
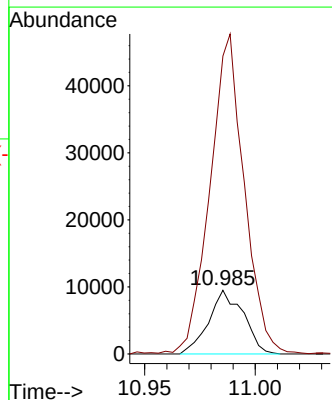
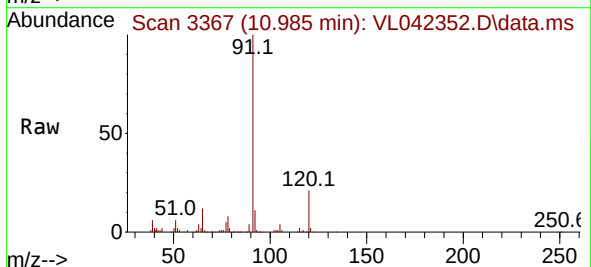
Acq: 17 Apr 2025 11:19

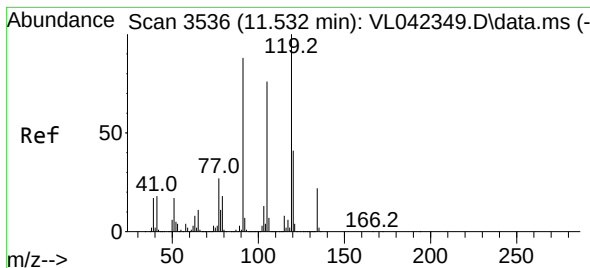
Tgt Ion: 120 Resp: 10369

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 :

VSTDIC0.5

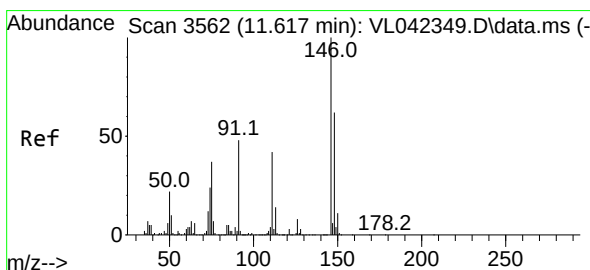
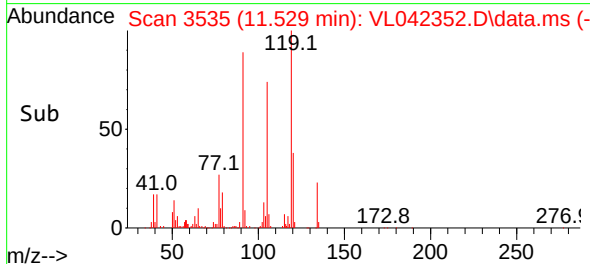
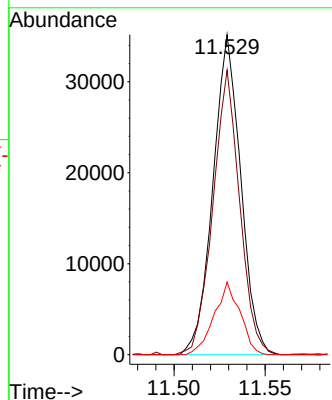
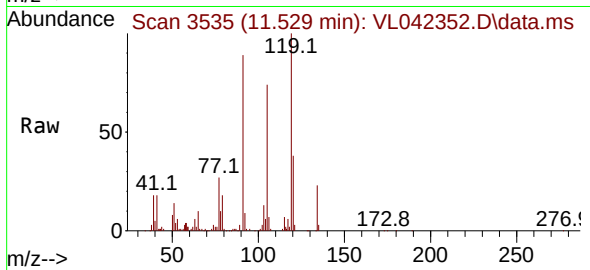
Tgt Ion:119 Resp: 37294

Ion Ratio Lower Upper

119 100

91 85.8 74.6 111.8

134 21.1 18.8 28.2



#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

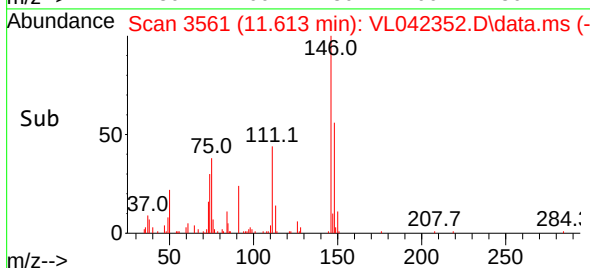
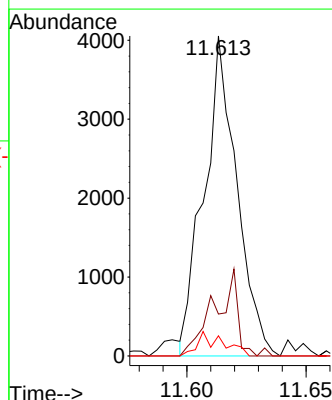
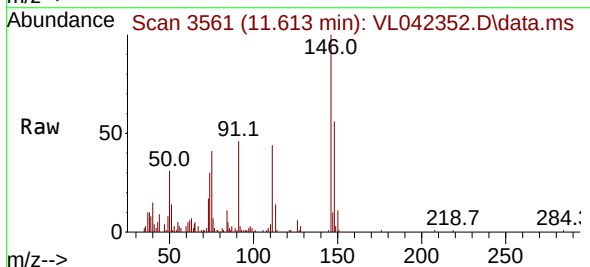
Tgt Ion: 91 Resp: 3878

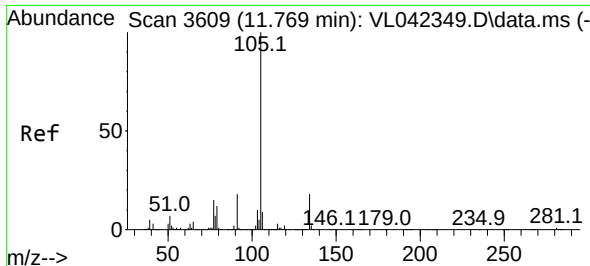
Ion Ratio Lower Upper

91 100

126 19.8 11.8 17.6#

128 5.8 4.5 6.7

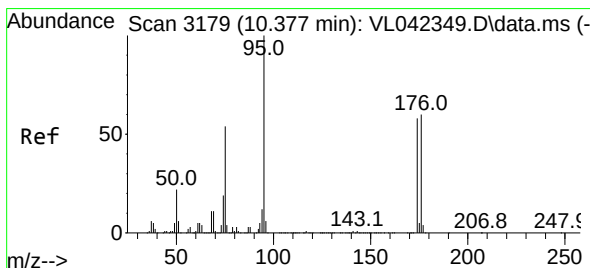
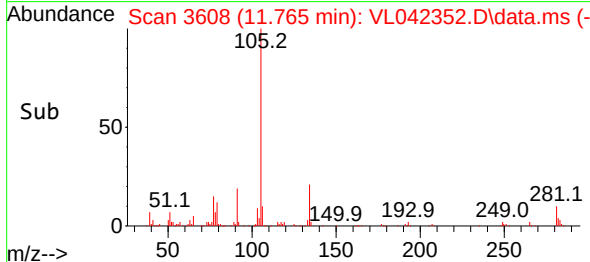
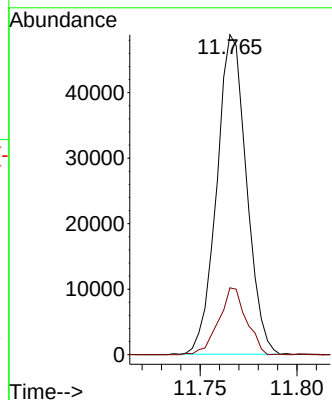
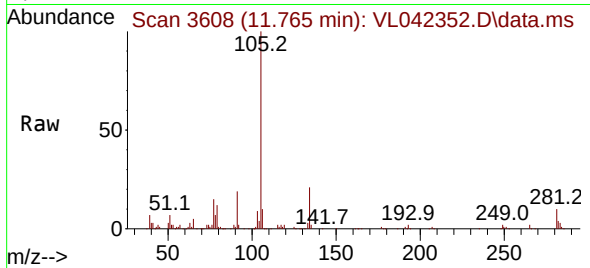




#67
 sec-Butylbenzene
 Concen: 0.537 ppbv
 RT: 11.765 min Scan# 3108
 Delta R.T. -0.003 min
 Lab File: VL042352.D
 Acq: 17 Apr 2025 11:19

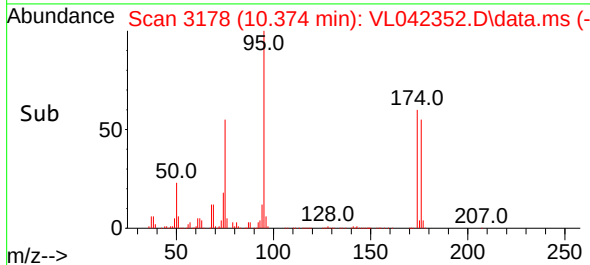
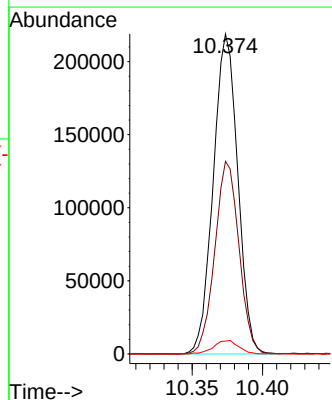
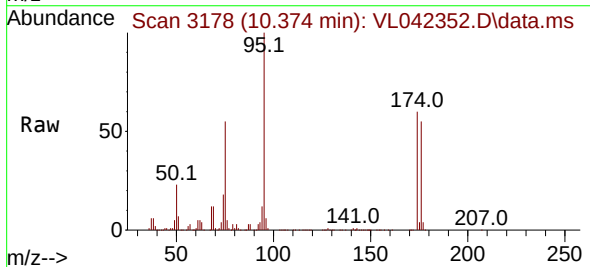
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

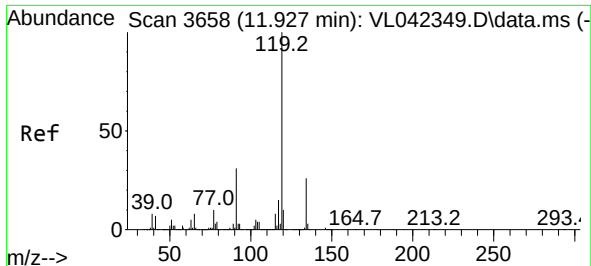
Tgt Ion:105 Resp: 52139
 Ion Ratio Lower Upper
 105 100
 134 19.5 14.6 21.8



#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

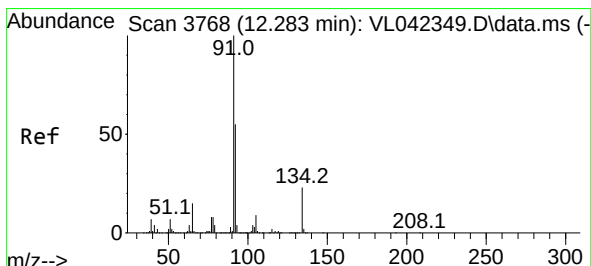
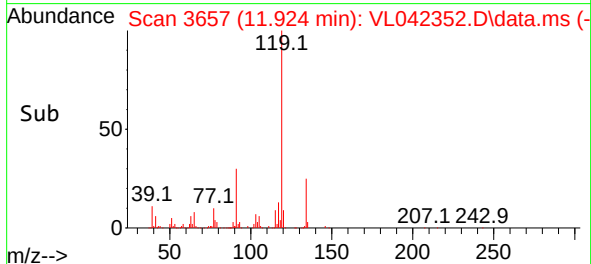
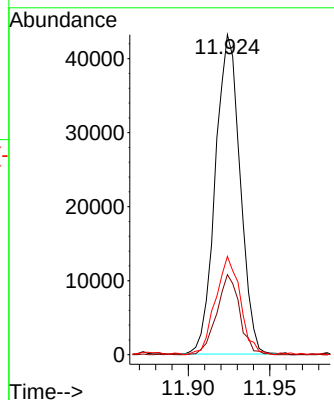
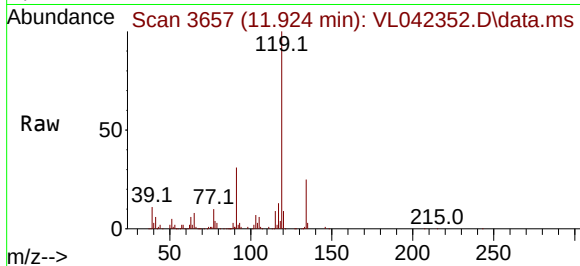




#69
p-Isopropyltoluene
Concen: 0.541 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

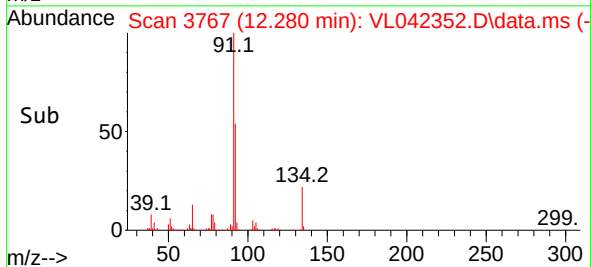
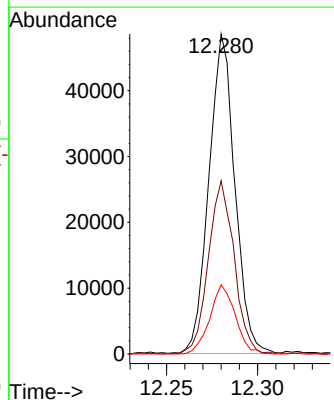
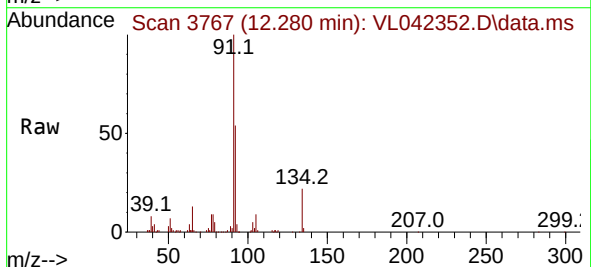
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.5

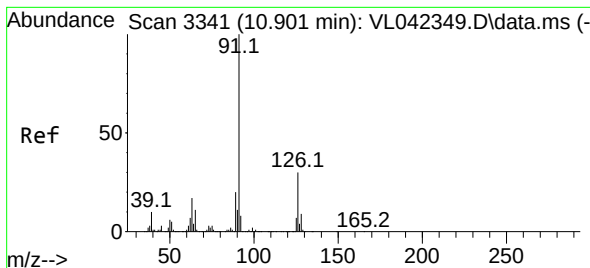
Tgt Ion: 119 Resp: 45574
Ion Ratio Lower Upper
119 100
134 23.3 20.0 30.0
91 31.4 24.4 36.6



#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

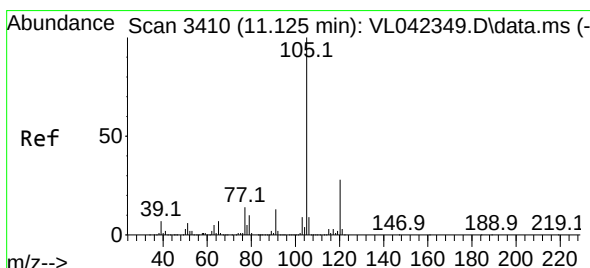
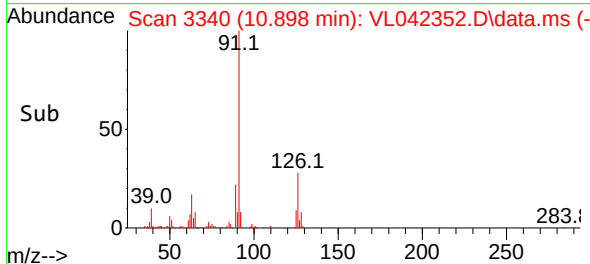
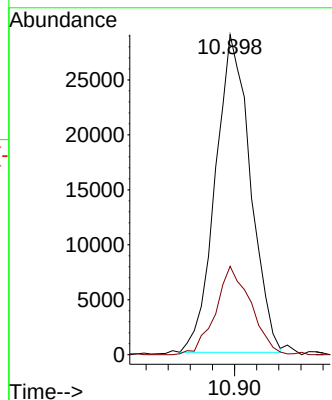
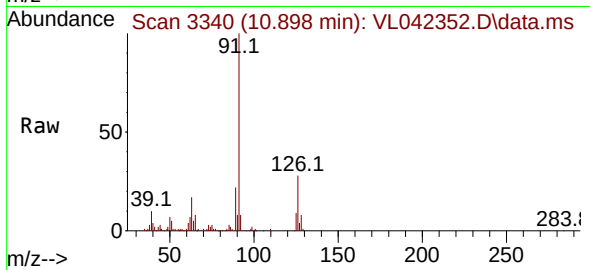




#71
2-Chlorotoluene
Concen: 0.533 ppbv
RT: 10.898 min Scan# 31709
Delta R.T. -0.003 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

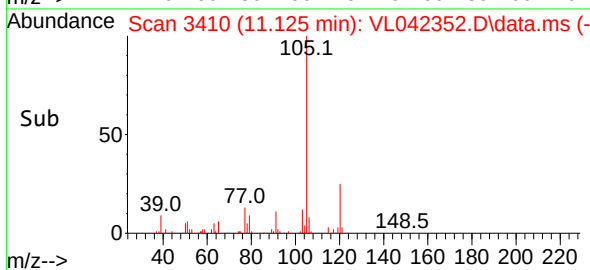
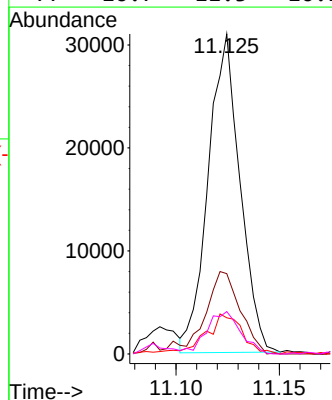
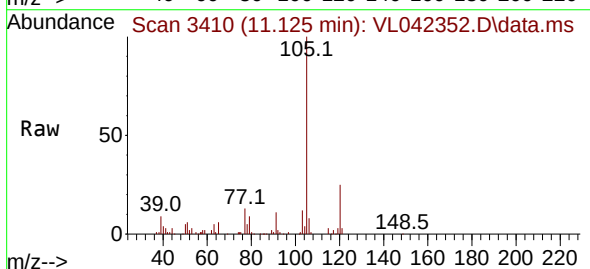
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

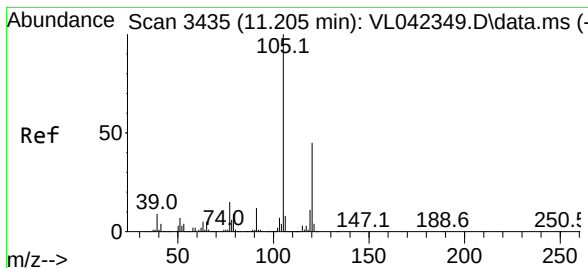
Tgt Ion: 91 Resp: 31709
Ion Ratio Lower Upper
91 100
126 28.3 11.4 45.4



#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 :

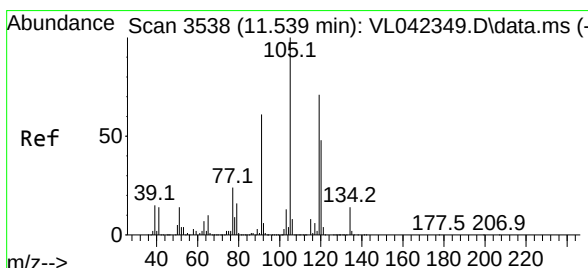
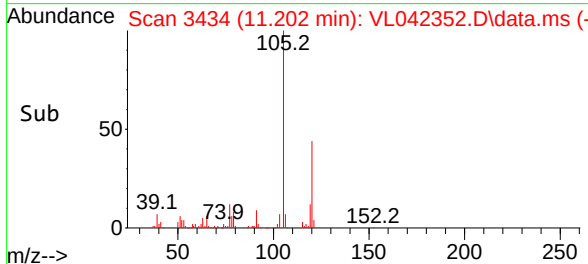
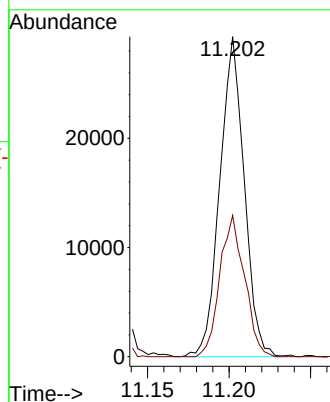
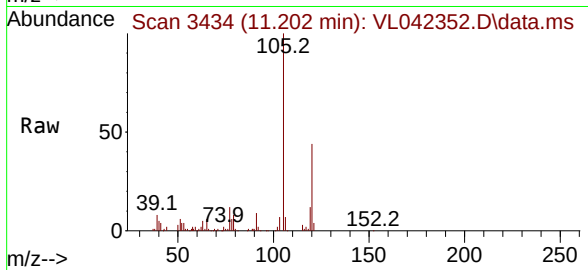
VSTDIC0.5

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

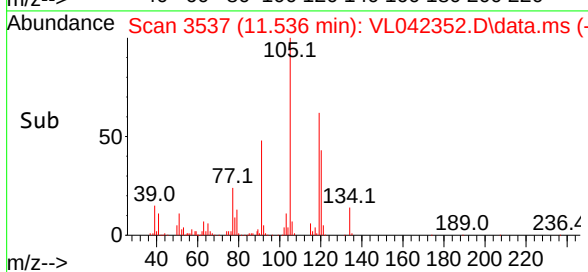
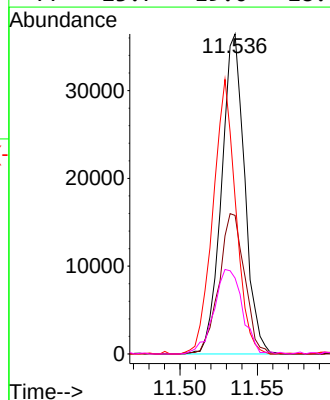
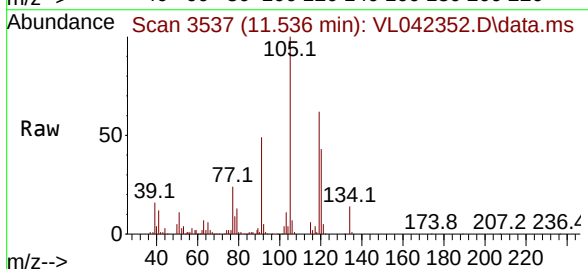
Ion Ratio Lower Upper

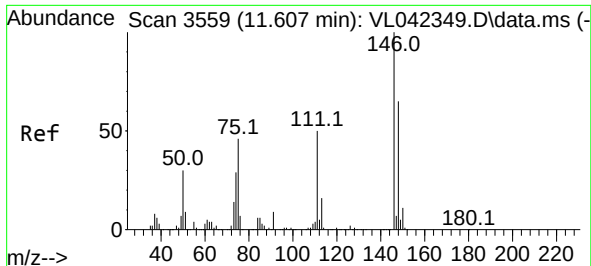
105 100

120 43.3 38.1 57.1

91 48.7 48.8 73.2#

77 23.7 19.0 28.4

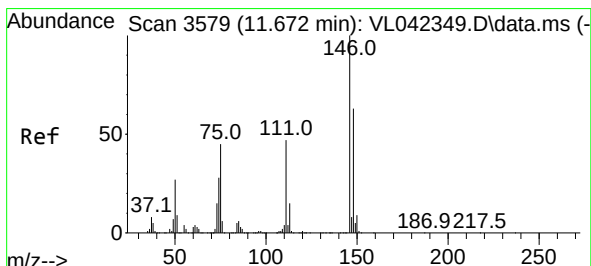
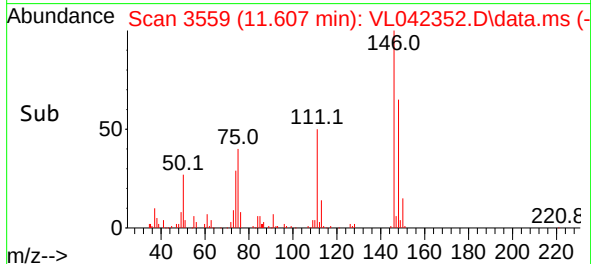
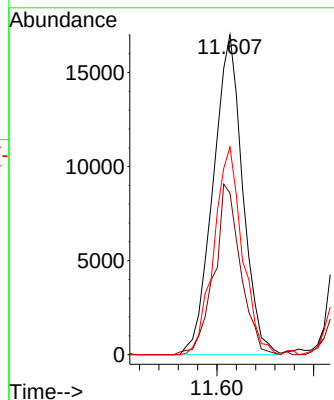
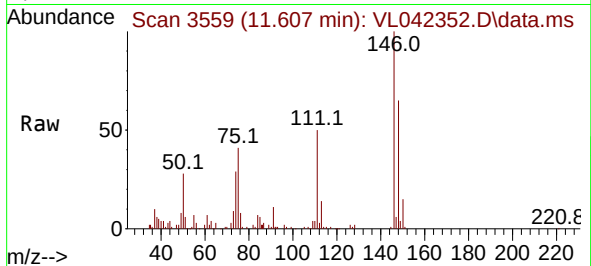




#75
1,3-Dichlorobenzene
Concen: 0.531 ppbv
RT: 11.607 min Scan# 3559
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

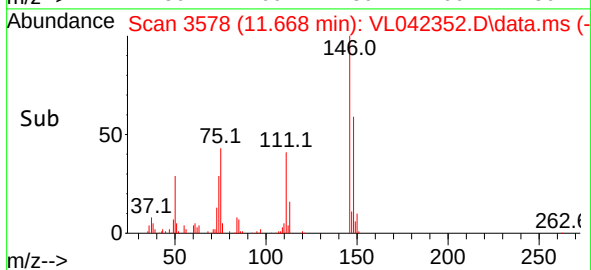
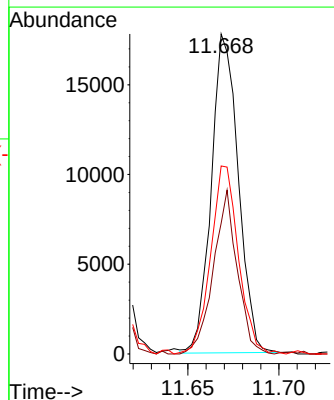
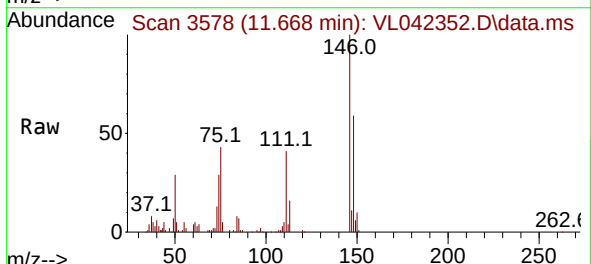
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

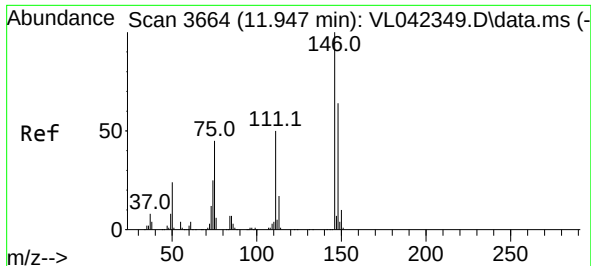
Tgt Ion:146 Resp: 18003
Ion Ratio Lower Upper
146 100
111 47.9 24.3 72.8
148 62.9 31.6 94.8



#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

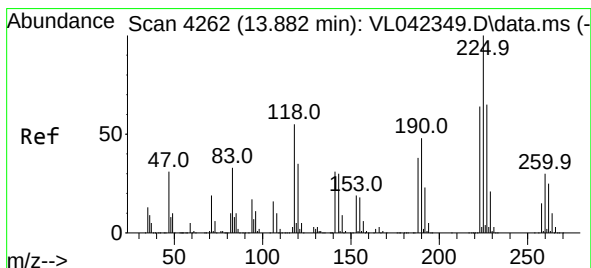
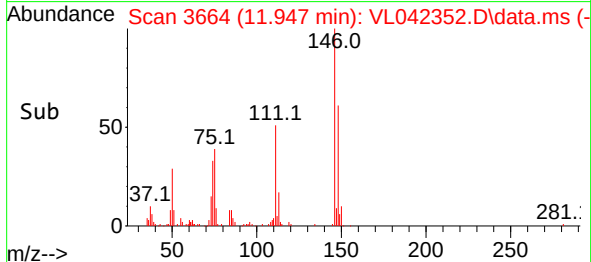
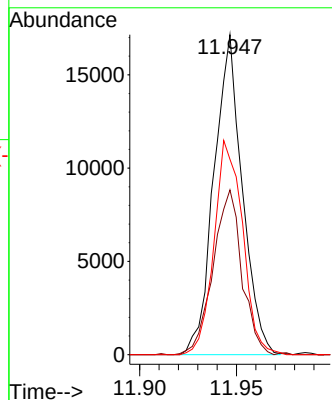
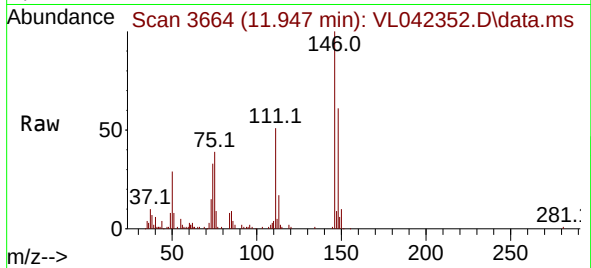




#77
1,2-Dichlorobenzene
Concen: 0.530 ppbv
RT: 11.947 min Scan# 30
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

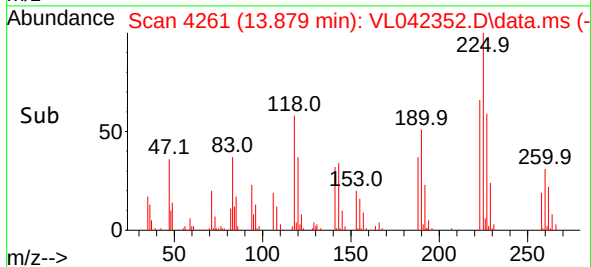
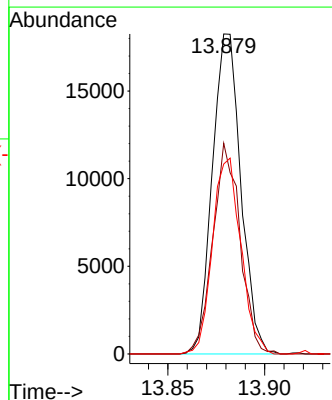
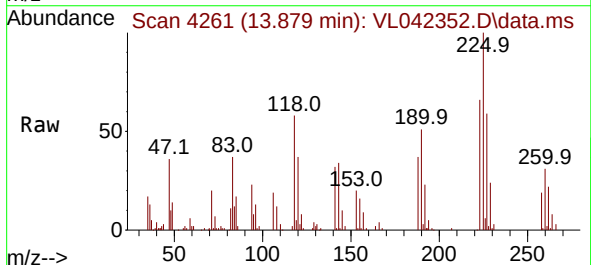
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

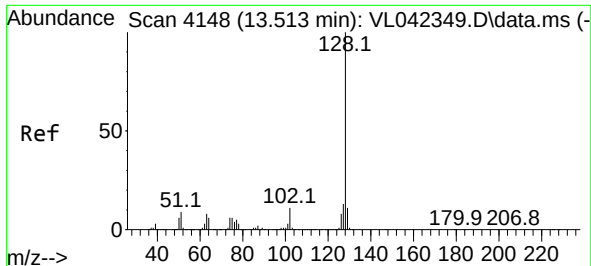
Tgt Ion:146 Resp: 17446
Ion Ratio Lower Upper
146 100
111 52.6 25.3 75.9
148 67.5 31.5 94.5



#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

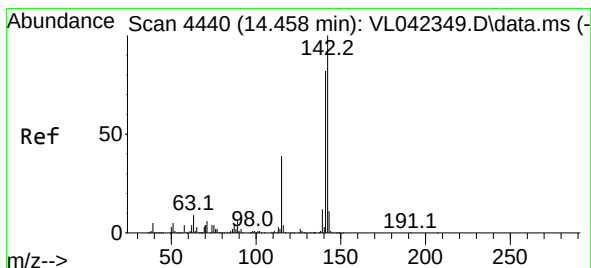
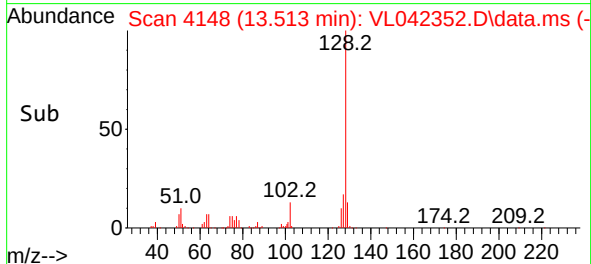
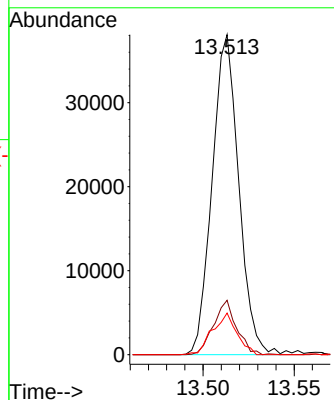
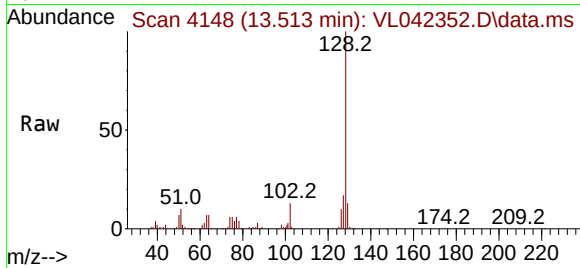




#79
Naphthalene
Concen: 0.494 ppbv
RT: 13.513 min Scan# 4148
Delta R.T. -0.000 min
Lab File: VL042352.D
Acq: 17 Apr 2025 11:19

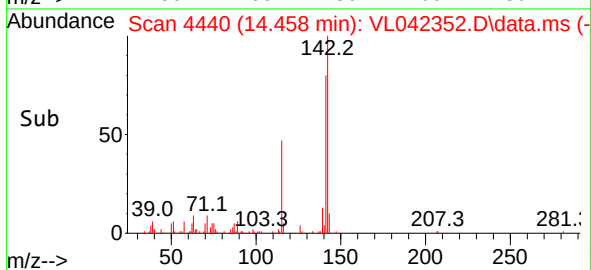
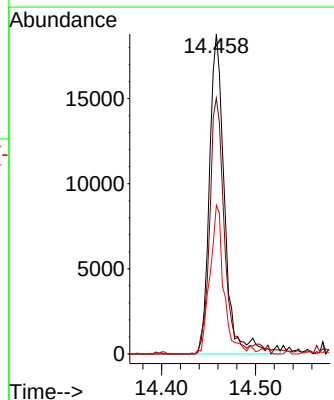
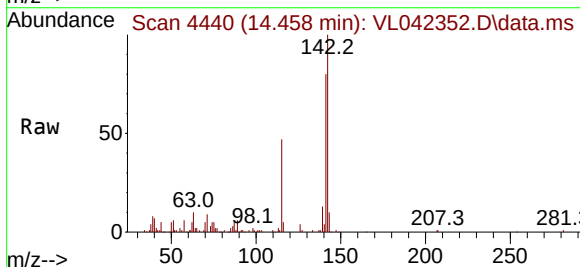
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

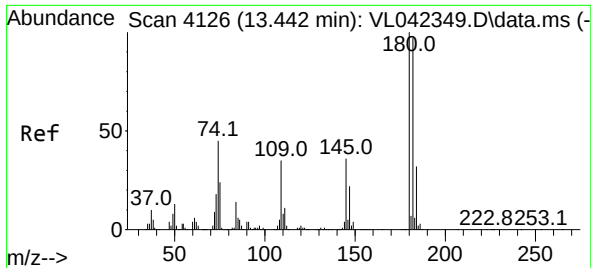
Tgt Ion:128 Resp: 38521
Ion Ratio Lower Upper
128 100
127 17.0 10.6 15.8#
129 13.0 8.6 12.8#



#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

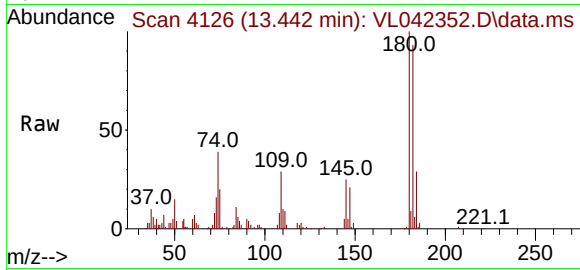
Acq: 17 Apr 2025 11:19

Instrument :

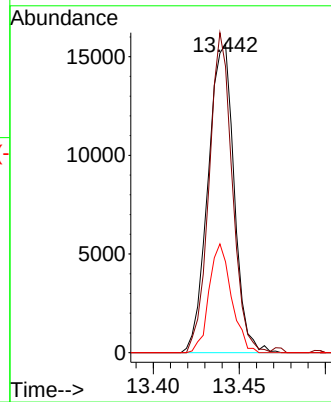
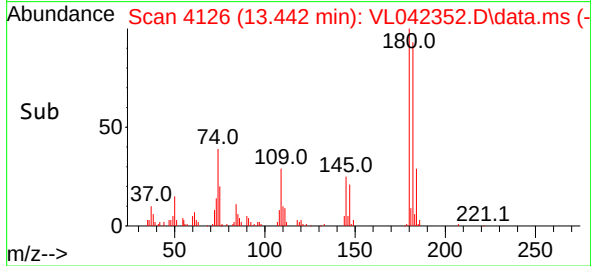
MSVOA_L

ClientSampleId :

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



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)

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				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 : 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

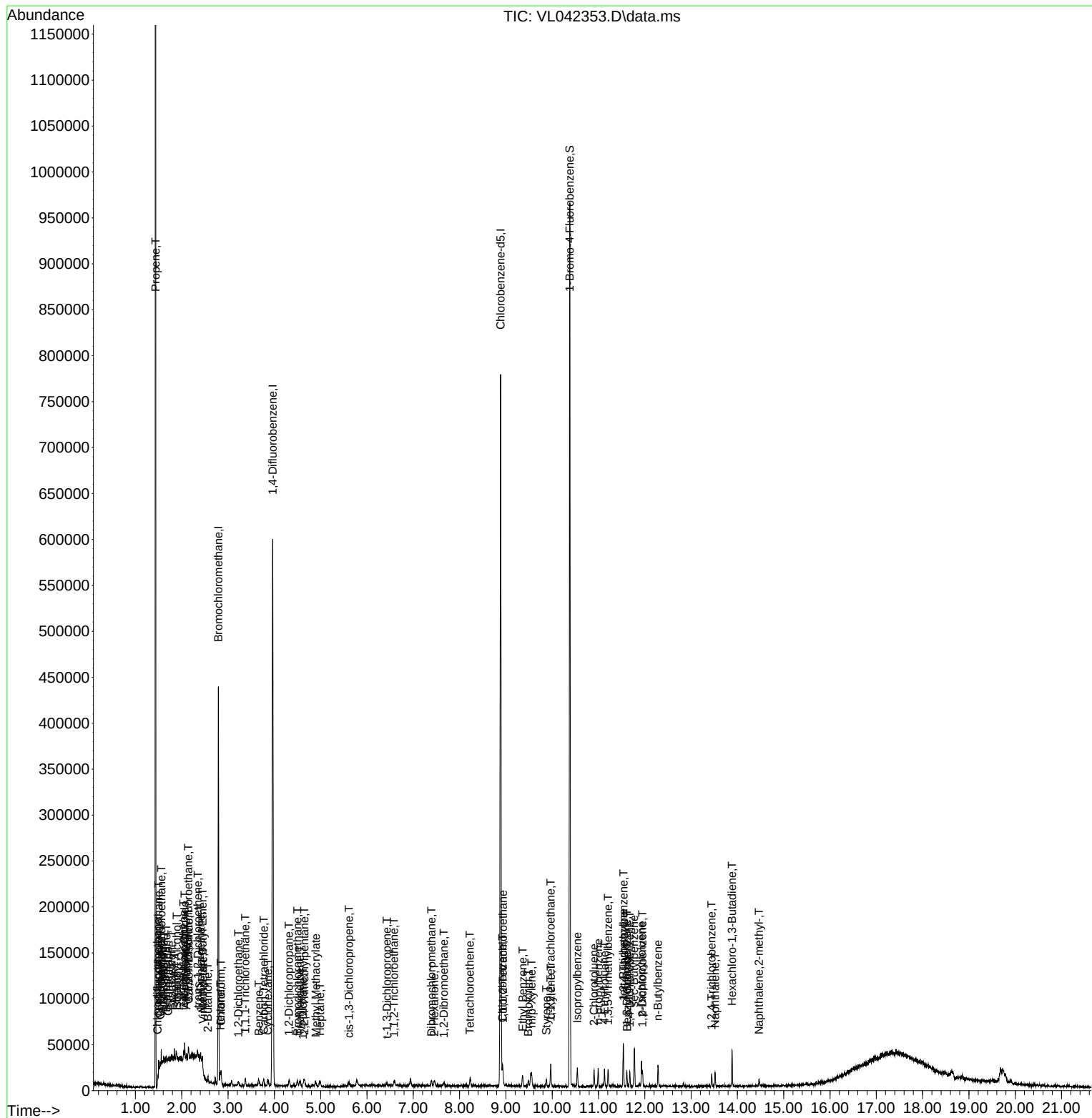
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
51) 2-Hexanone	7.455	43	4915	0.118	ppbv	#	99
52) Tetrachloroethene	8.222	164	957	0.065	ppbv		88
54) 1,2-Dibromoethane	7.662	107	1470	0.072	ppbv	#	75
56) 1,1,1,2-Tetrachloroethane	8.934	131	2031	0.107	ppbv	#	47
57) Chlorobenzene	8.924	112	3842	0.117	ppbv	#	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

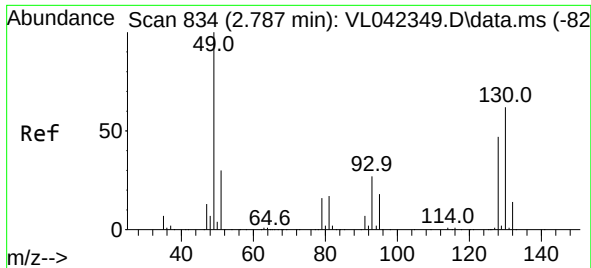
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

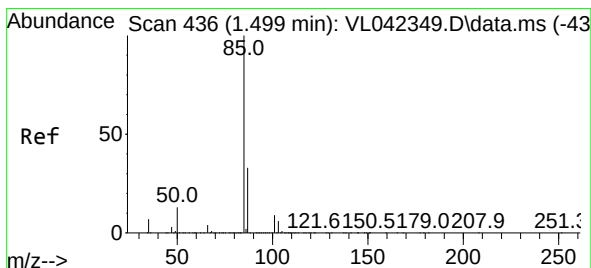
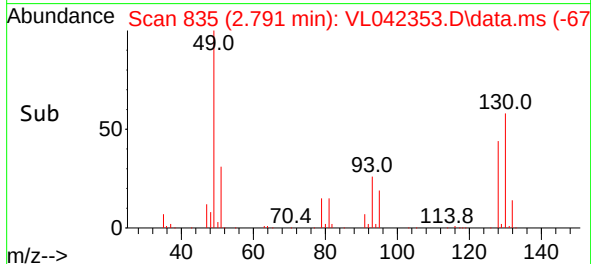
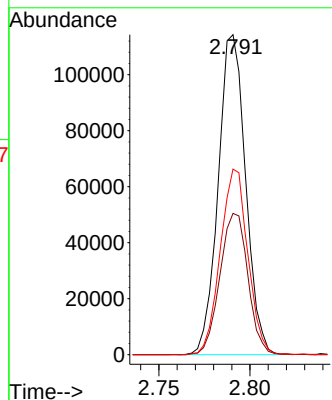
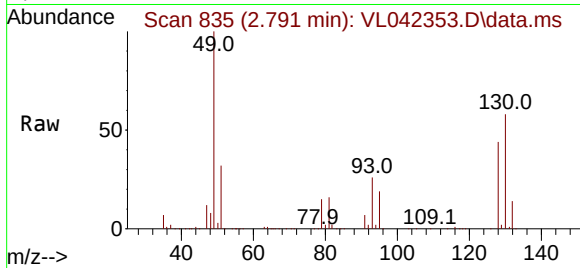
Tgt Ion: 49 Resp: 119461

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

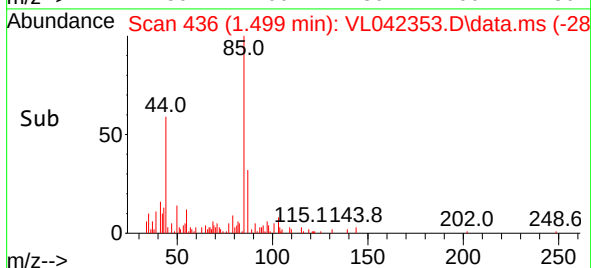
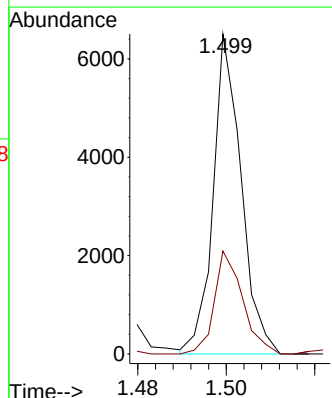
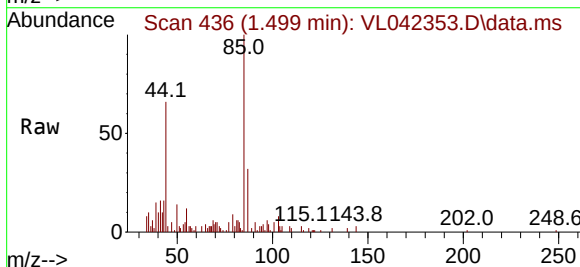
Acq: 17 Apr 2025 11:50

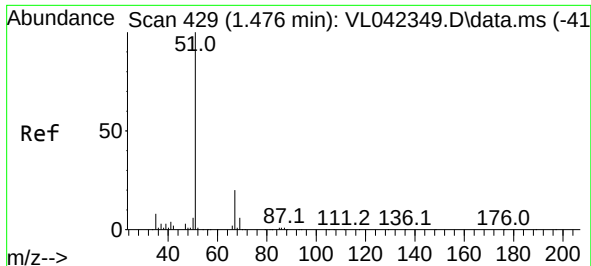
Tgt Ion: 85 Resp: 2857

Ion Ratio Lower Upper

85 100

87 32.2 26.6 39.8

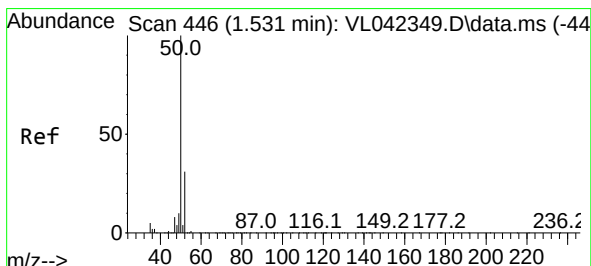
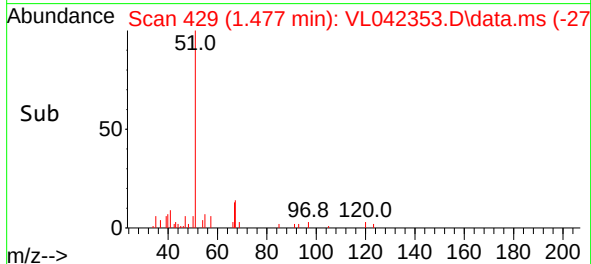
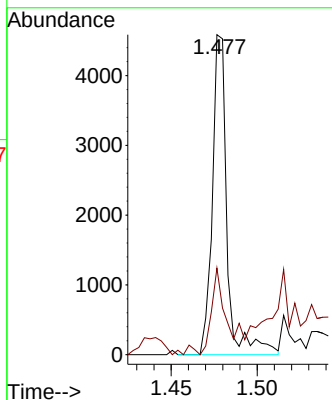
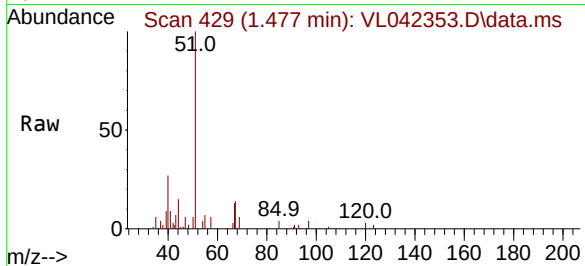




#3
Chlorodifluoromethane
Concen: 0.135 ppbv
RT: 1.477 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

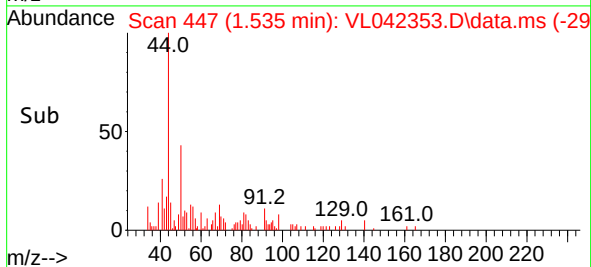
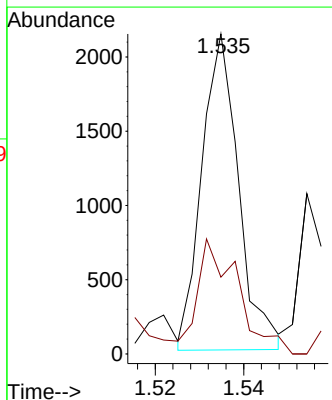
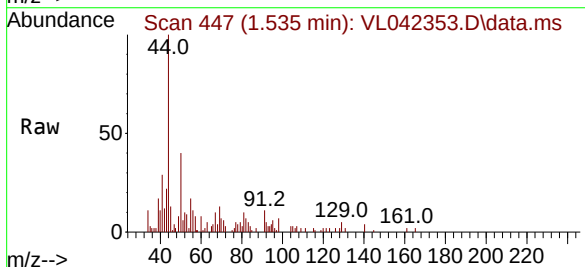
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

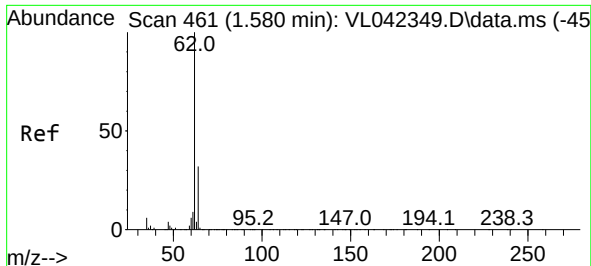
Tgt Ion: 51 Resp: 2706
Ion Ratio Lower Upper
51 100
67 24.5 16.2 24.4#



#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#

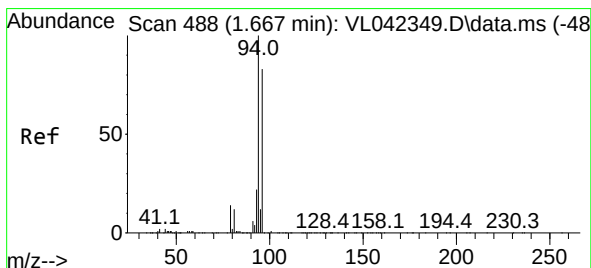
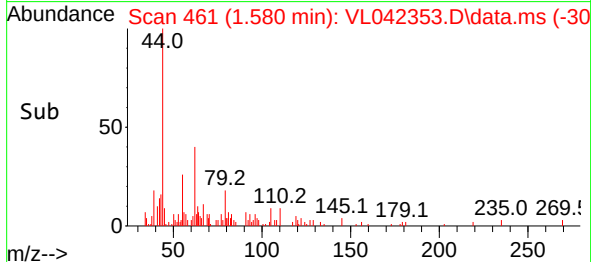
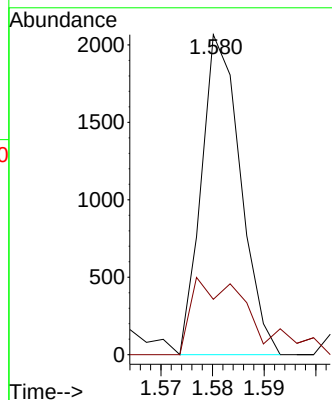
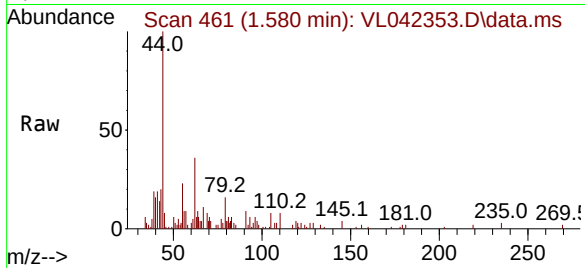




#5
 Vinyl Chloride
 Concen: 0.120 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. 0.000 min
 Lab File: VL042353.D
 Acq: 17 Apr 2025 11:50

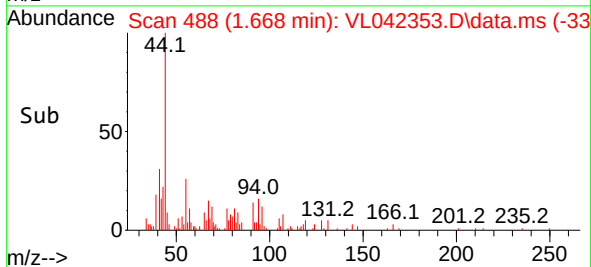
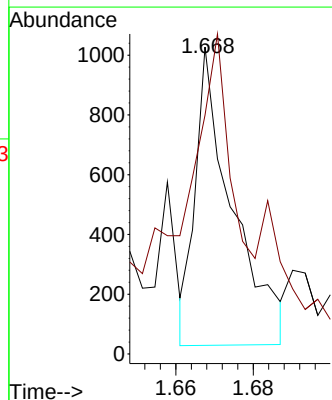
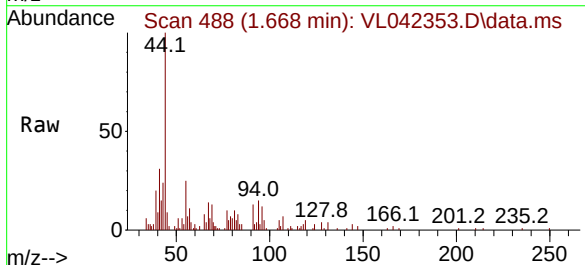
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

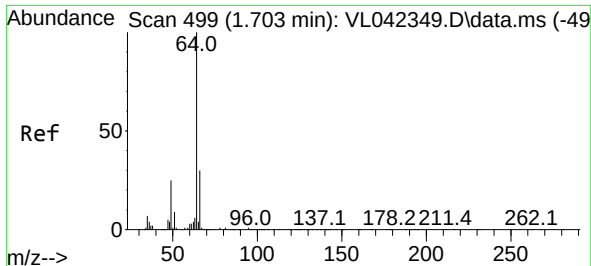
Tgt Ion: 62 Resp: 1088
 Ion Ratio Lower Upper
 62 100
 64 17.3 25.4 38.0#



#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#

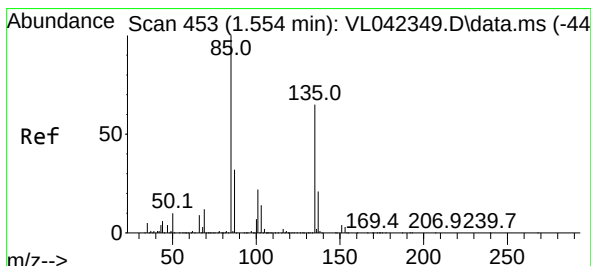
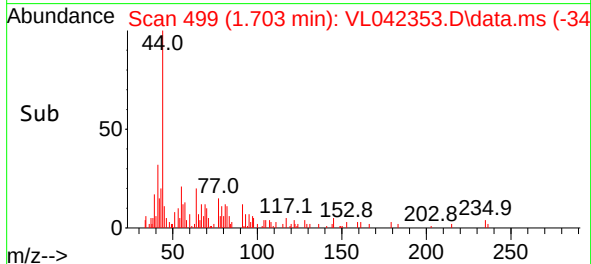
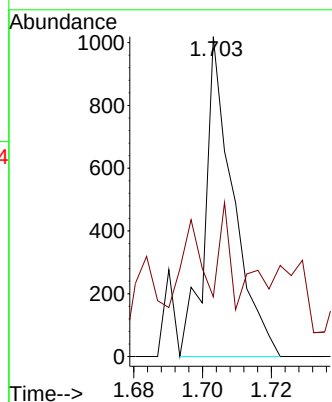
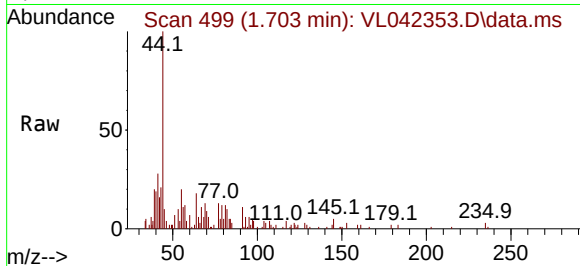




#7
Chloroethane
Concen: 0.176 ppbv
RT: 1.703 min Scan# 499
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

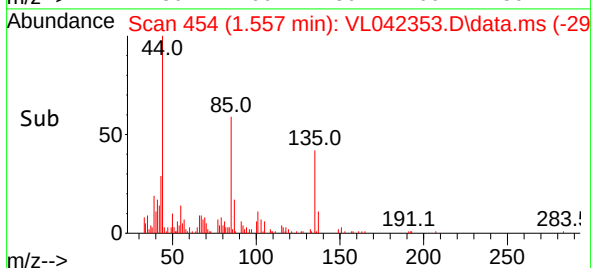
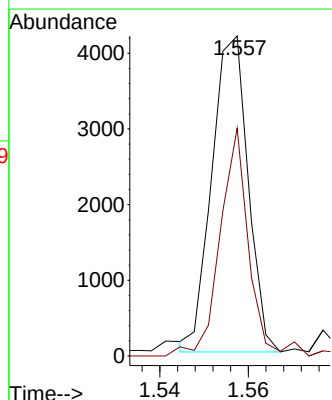
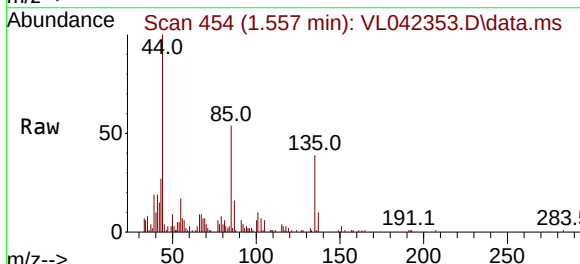
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

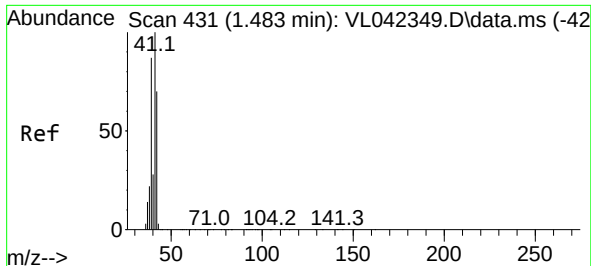
Tgt Ion: 64 Resp: 579
Ion Ratio Lower Upper
64 100
66 18.6 24.6 37.0#



#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 :

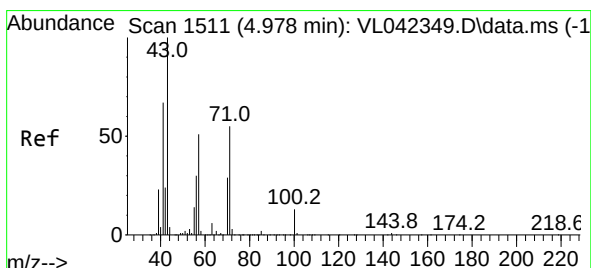
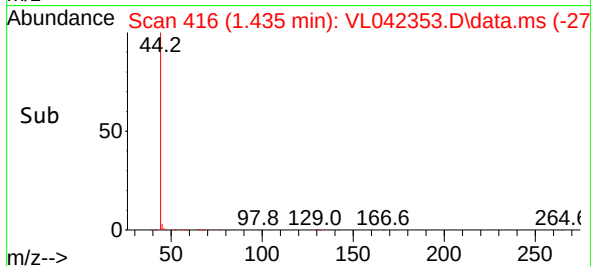
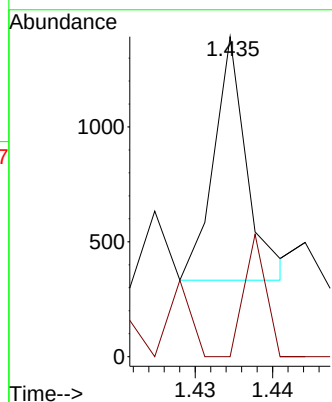
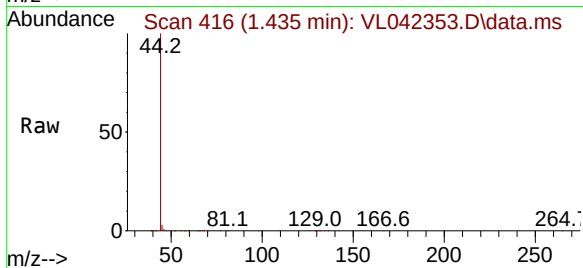
VSTDIC0.1

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

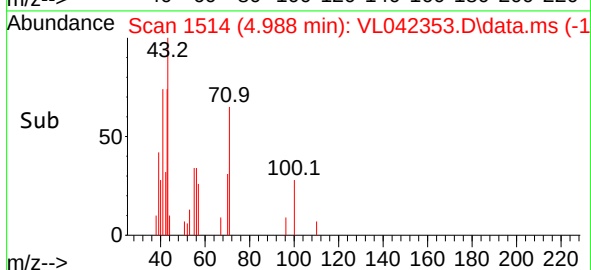
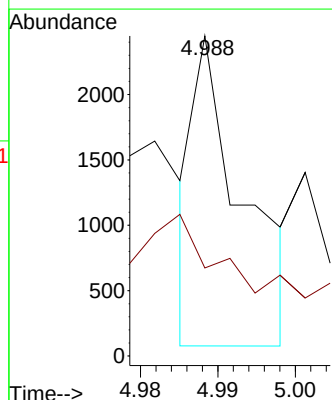
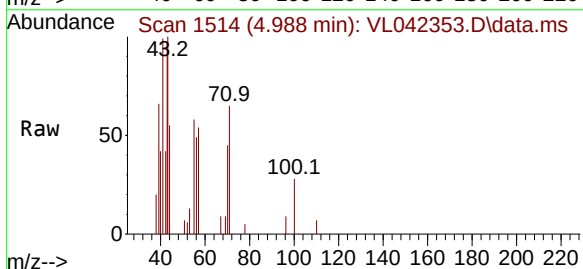
Acq: 17 Apr 2025 11:50

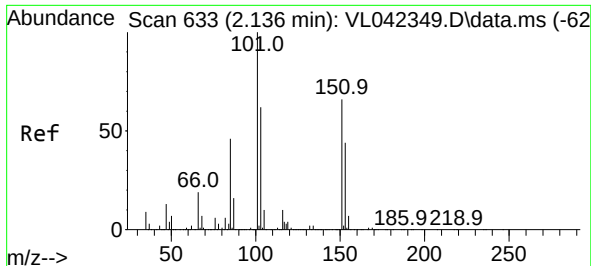
Tgt Ion: 43 Resp: 1056

Ion Ratio Lower Upper

43 100

57 220.7 39.9 59.9#

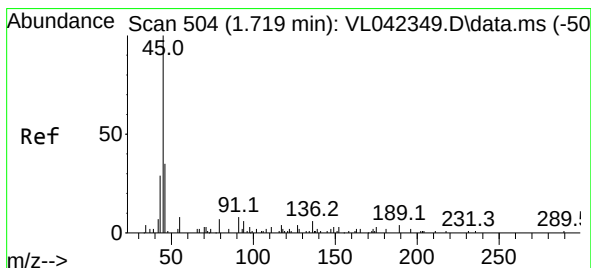
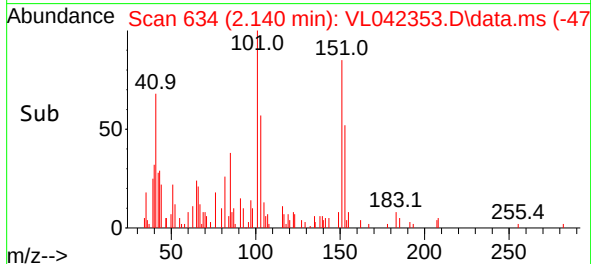
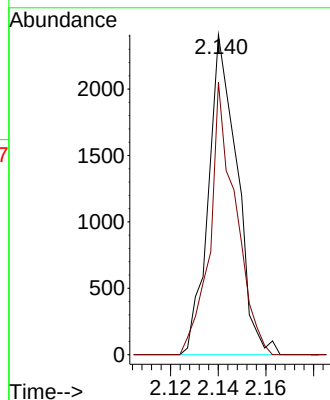
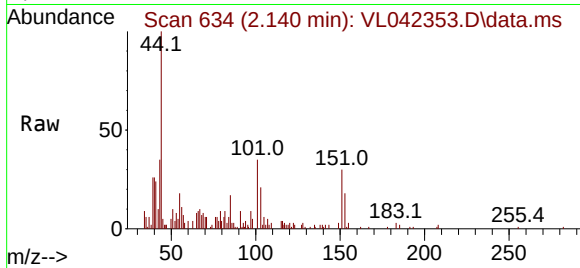




#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.123 ppbv
 RT: 2.140 min Scan# 61
 Delta R.T. 0.004 min
 Lab File: VL042353.D
 Acq: 17 Apr 2025 11:50

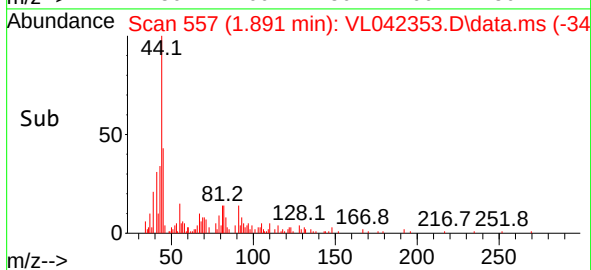
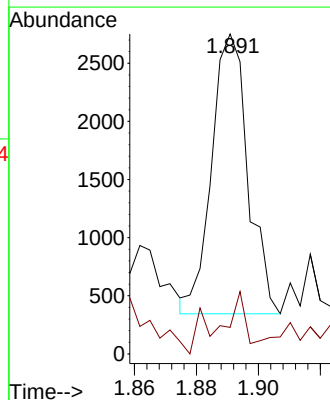
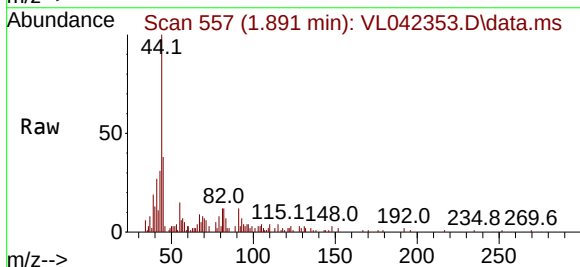
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

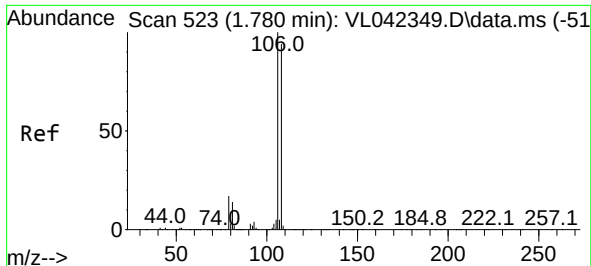
Tgt Ion: 101 Resp: 2017
 Ion Ratio Lower Upper
 101 100
 151 76.2 57.0 85.6



#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

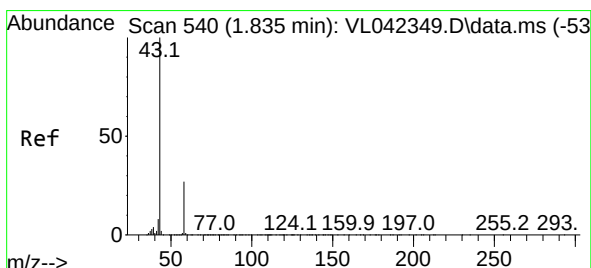
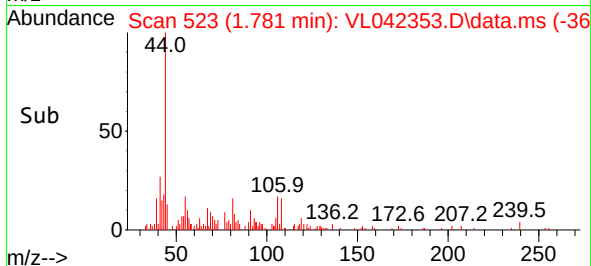
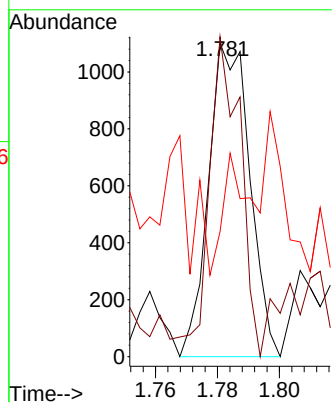
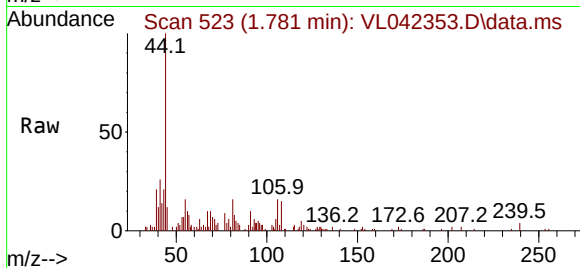
Tgt Ion:108 Resp: 1015

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

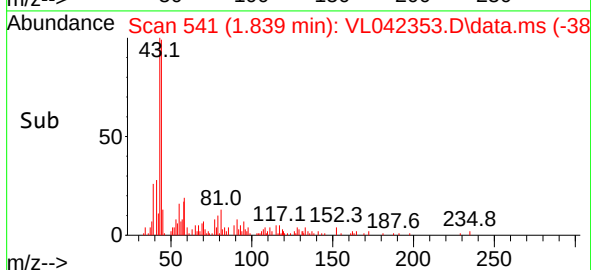
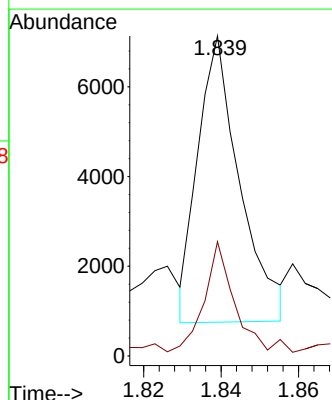
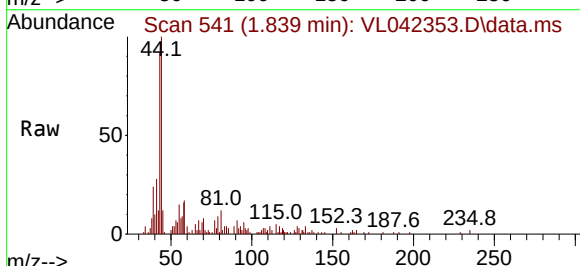
Acq: 17 Apr 2025 11:50

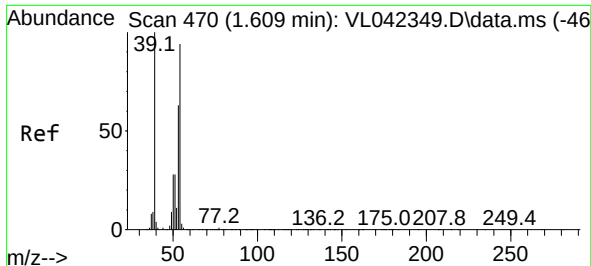
Tgt Ion: 43 Resp: 4783

Ion Ratio Lower Upper

43 100

58 37.5 22.4 33.6#

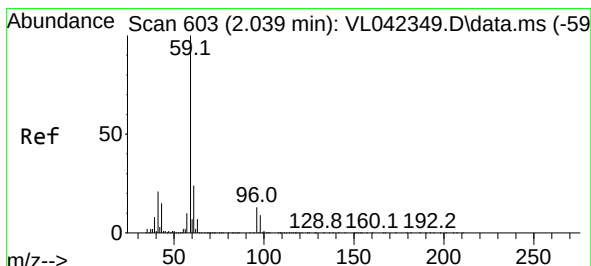
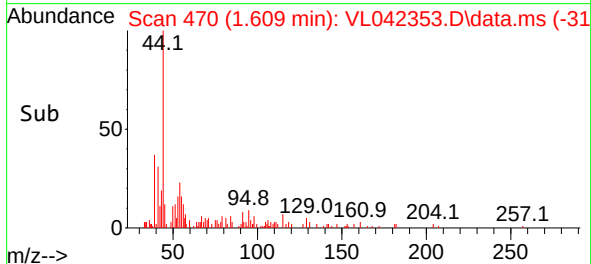
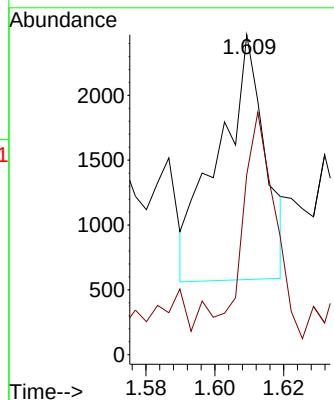
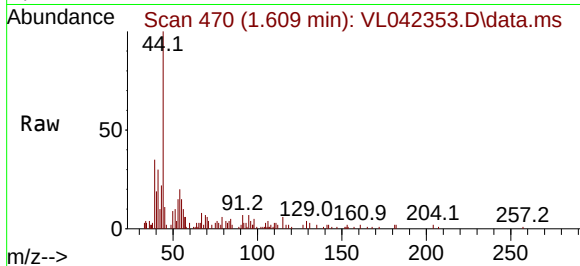




#16
1,3-Butadiene
Concen: 0.193 ppbv
RT: 1.609 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

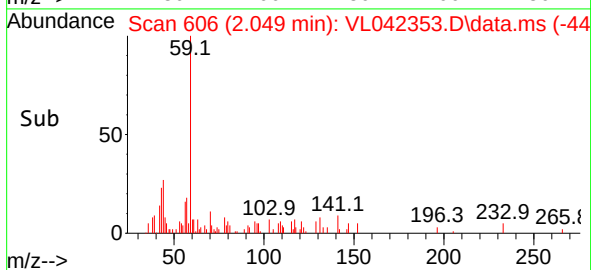
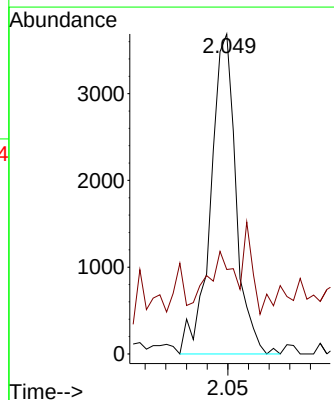
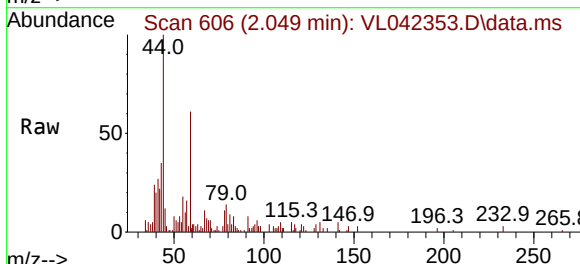
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

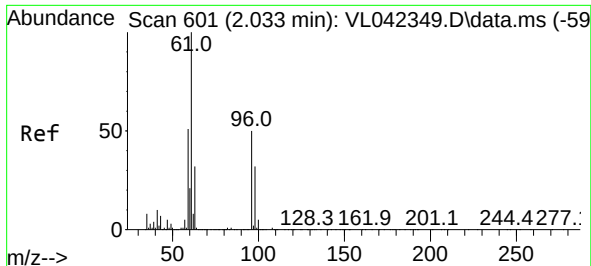
Tgt Ion: 39 Resp: 1776
Ion Ratio Lower Upper
39 100
54 128.7 64.9 97.3#



#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

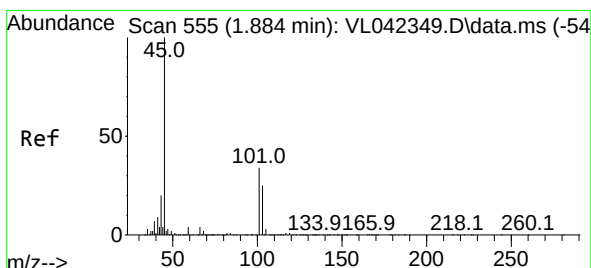
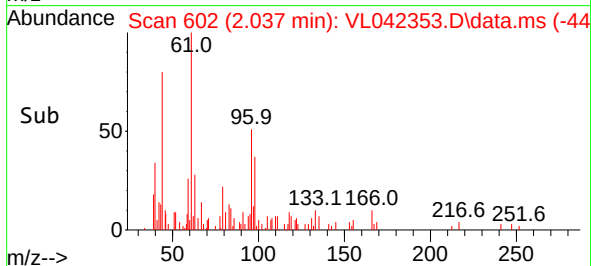
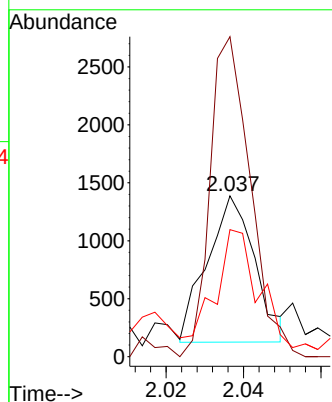
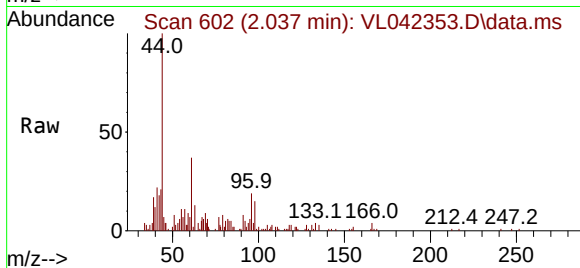
Tgt Ion: 96 Resp: 1074

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

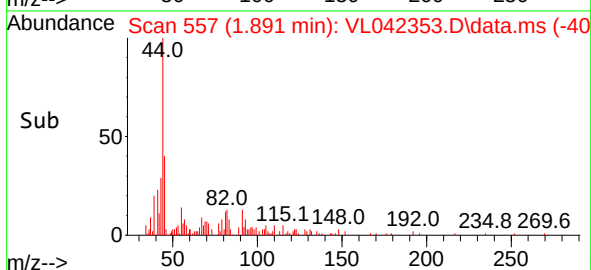
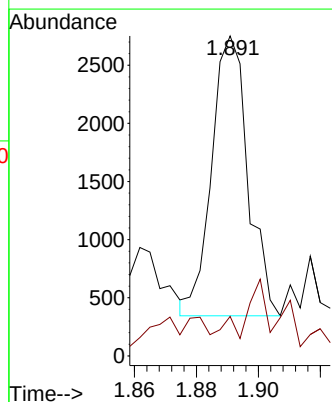
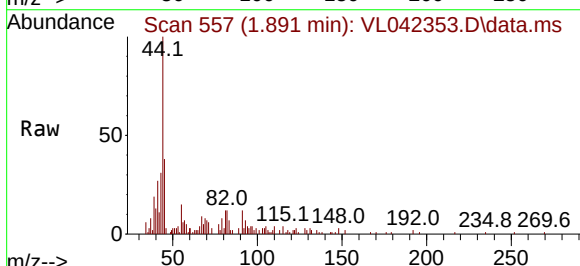
Acq: 17 Apr 2025 11:50

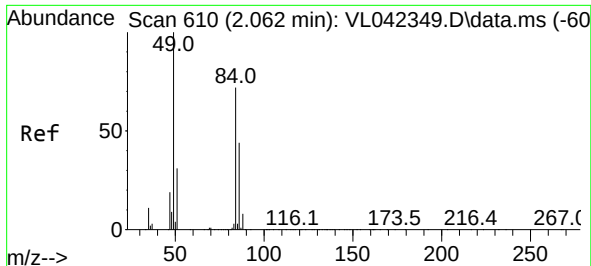
Tgt Ion: 45 Resp: 1958

Ion Ratio Lower Upper

45 100

58 49.5 34.5 51.7

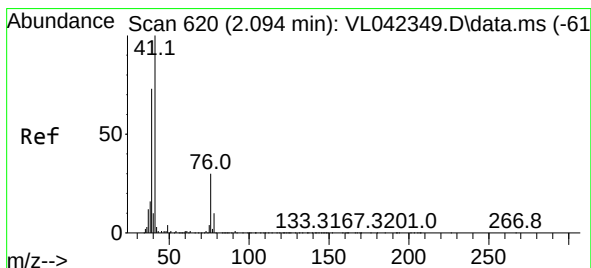
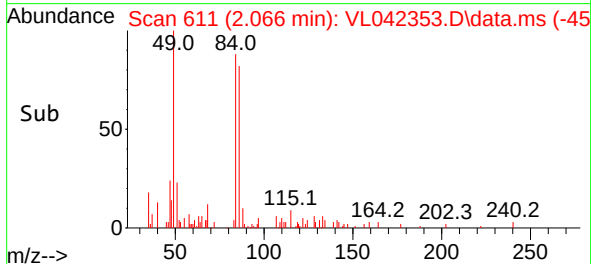
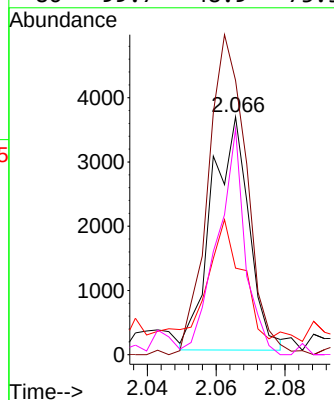
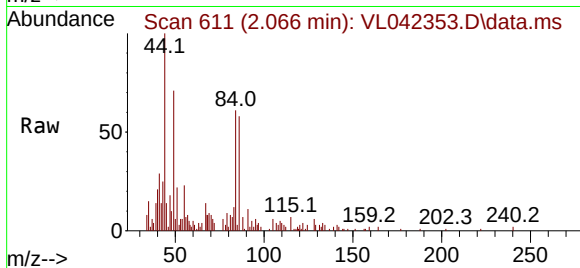




#20
Methylene Chloride
Concen: 0.358 ppbv
RT: 2.066 min Scan# 610
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

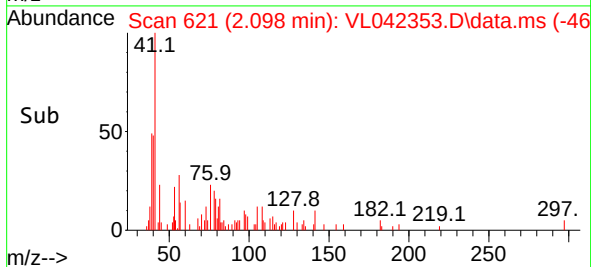
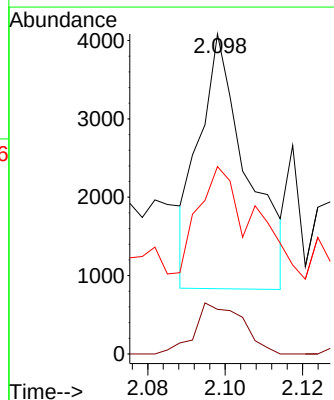
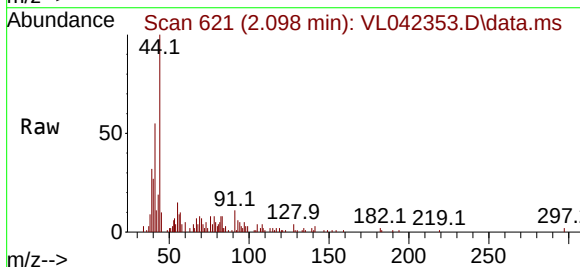
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

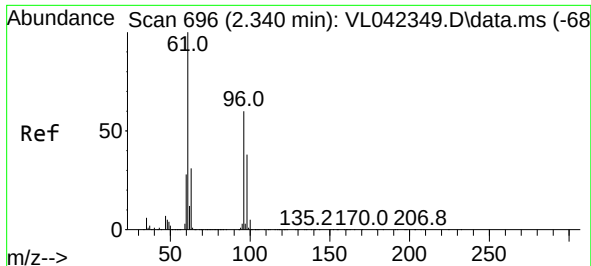
Tgt Ion:	84	Resp:	2741
Ion	Ratio	Lower	Upper
84	100		
49	119.3	111.6	167.4
51	28.2	35.1	52.7#
86	99.7	48.9	73.3#



#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#

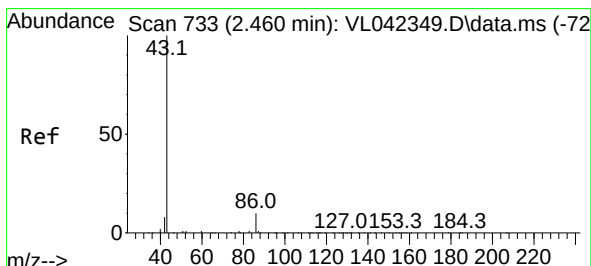
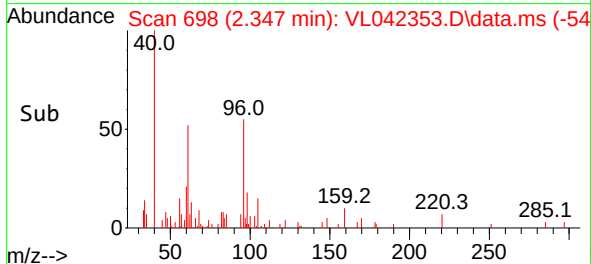
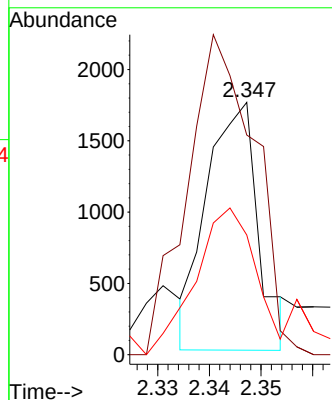
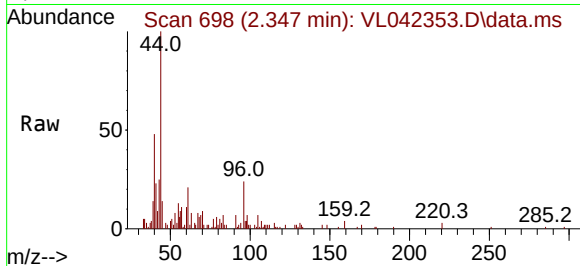




#22
trans-1,2-Dichloroethene
Concen: 0.138 ppbv
RT: 2.347 min Scan# 696
Delta R.T. 0.007 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

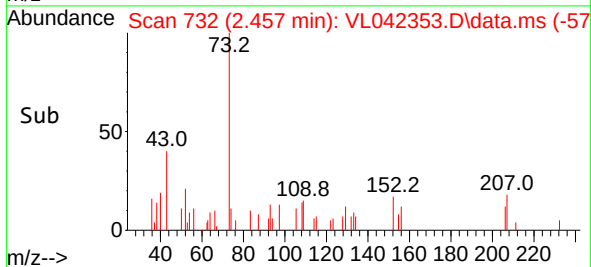
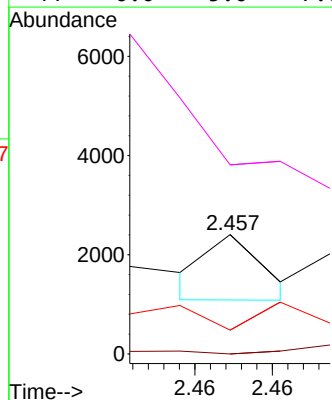
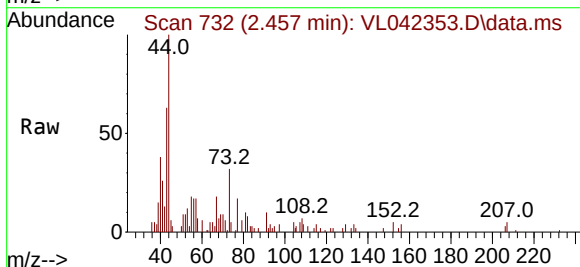
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

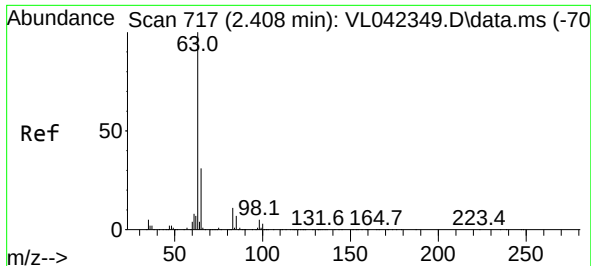
Tgt Ion: 96 Resp: 1201
Ion Ratio Lower Upper
96 100
61 99.5 133.7 200.5#
98 52.9 50.3 75.5



#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#

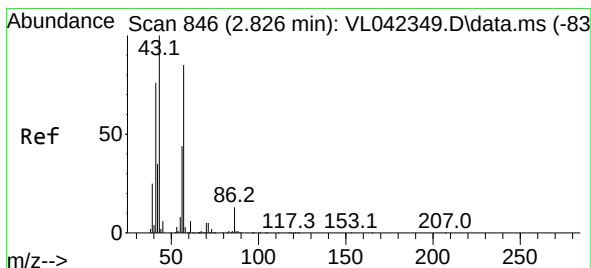
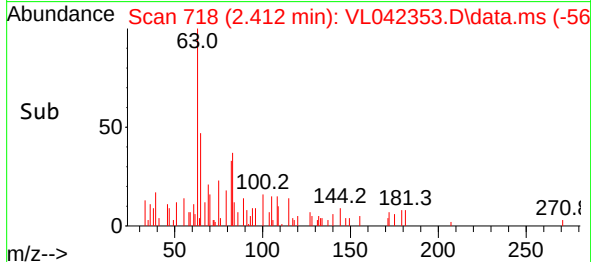
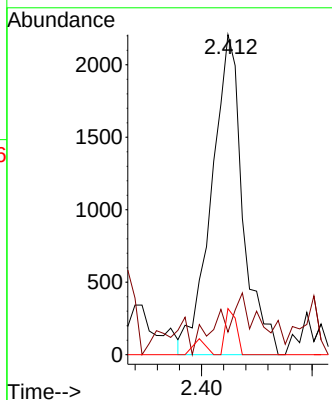
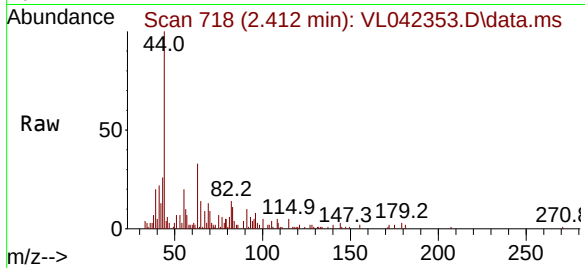




#24
1,1-Dichloroethane
Concen: 0.131 ppbv
RT: 2.412 min Scan# 718
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

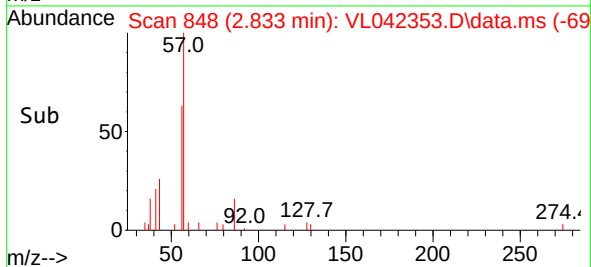
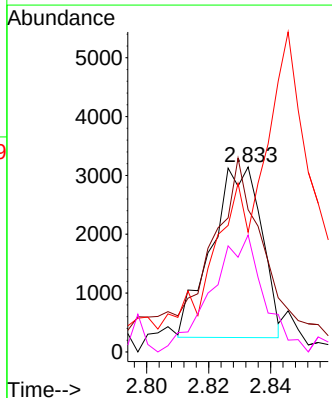
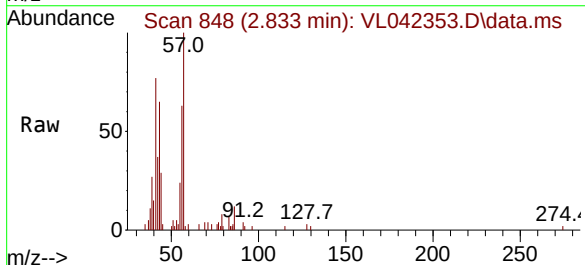
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

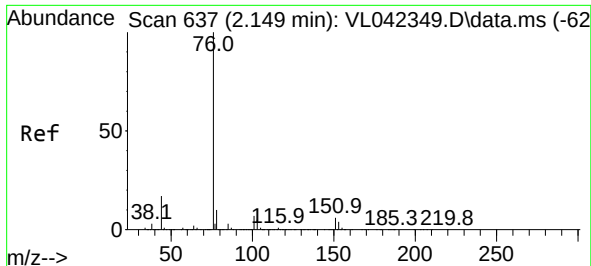
Tgt Ion: 63	Resp:	2169
Ion Ratio	Lower	Upper
63	100	
98	0.0	2.3
100	14.4	1.6



#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
43	0.0	208.4
56	76.0	43.1





#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_L

ClientSampleId :

VSTDIC0.1

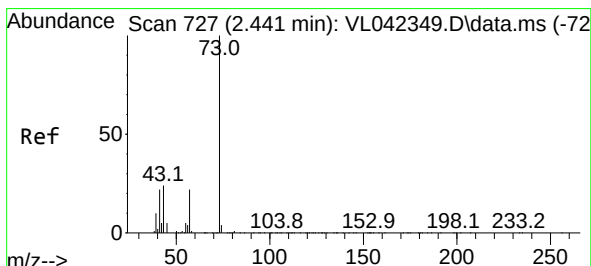
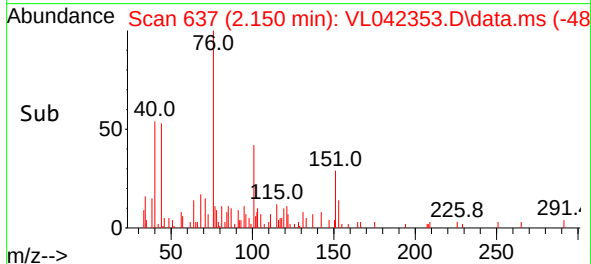
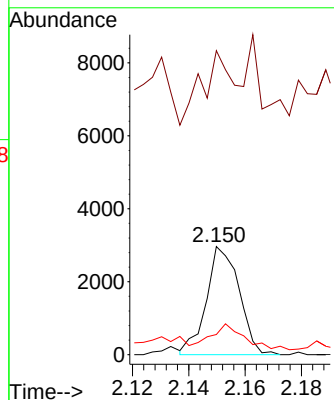
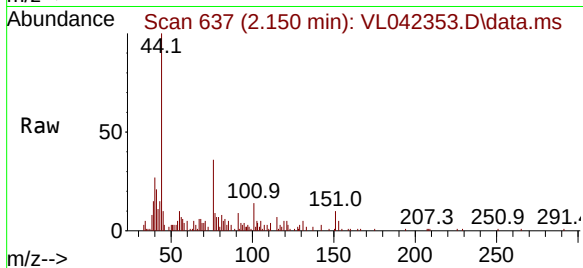
Tgt Ion: 76 Resp: 2396

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

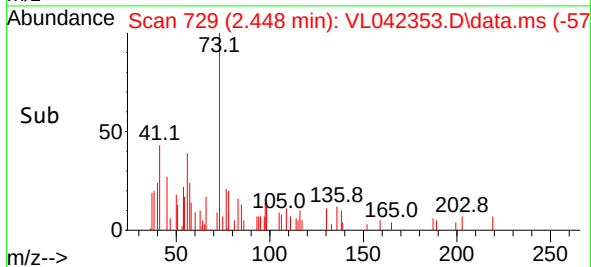
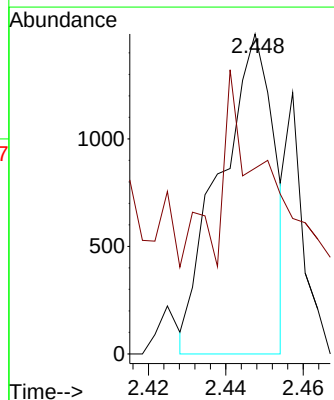
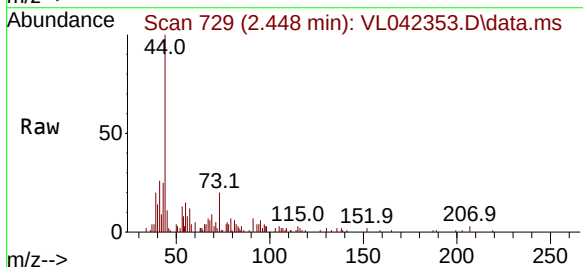
Acq: 17 Apr 2025 11:50

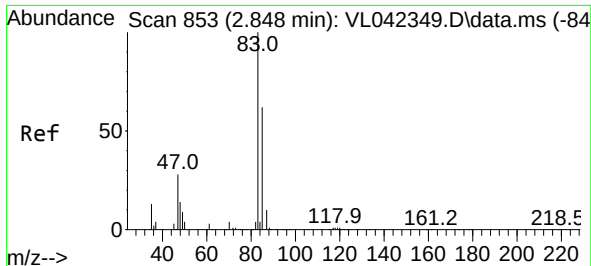
Tgt Ion: 73 Resp: 1460

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 :

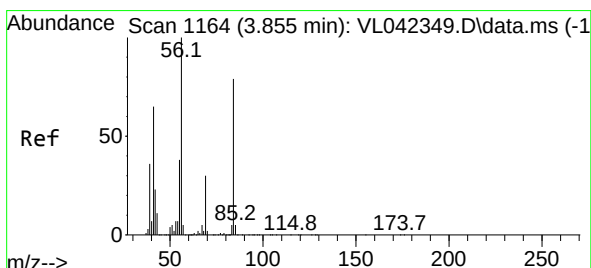
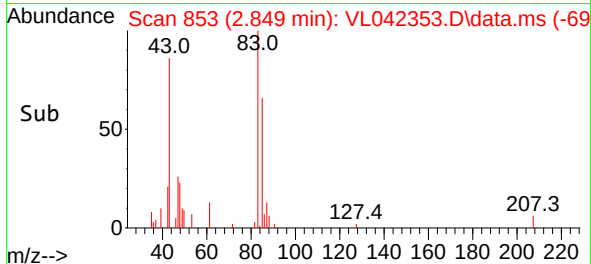
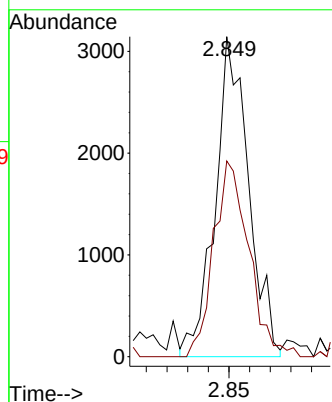
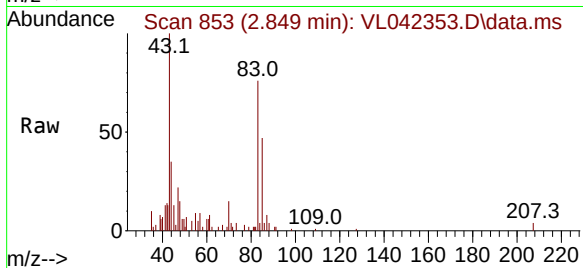
VSTDIC0.1

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

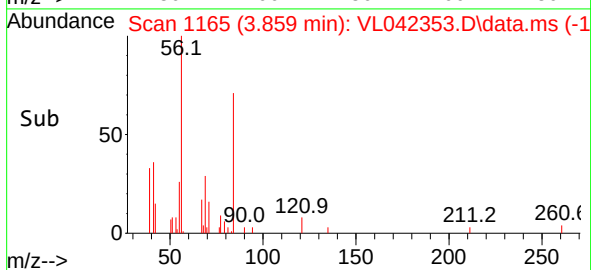
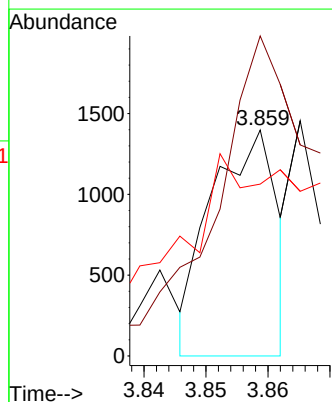
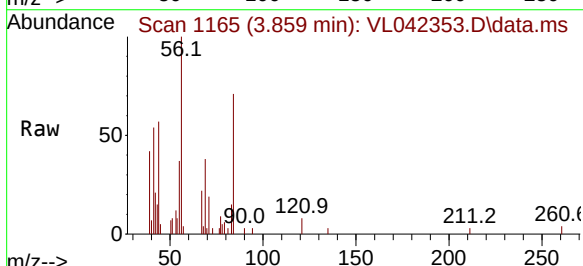
Tgt Ion: 84 Resp: 1037

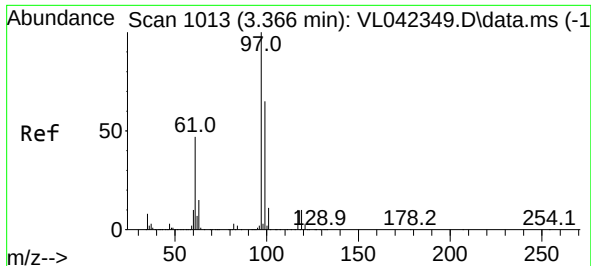
Ion Ratio Lower Upper

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

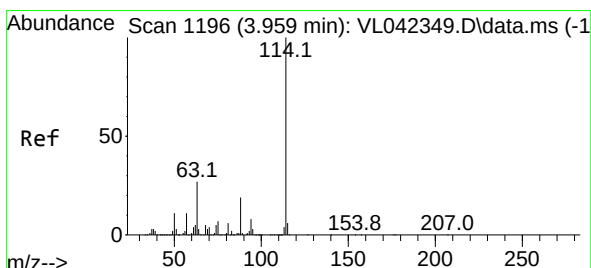
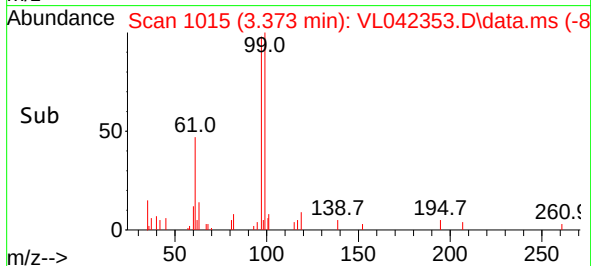
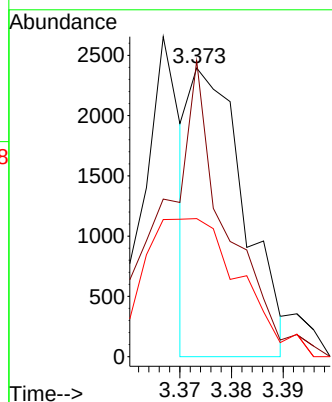
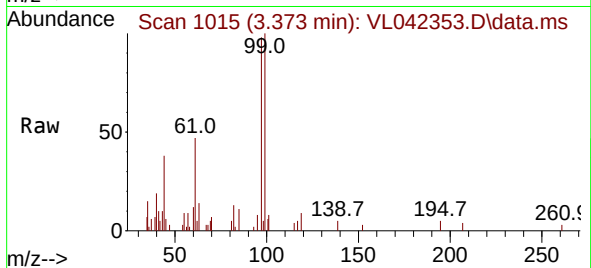
Tgt Ion: 97 Resp: 1734

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

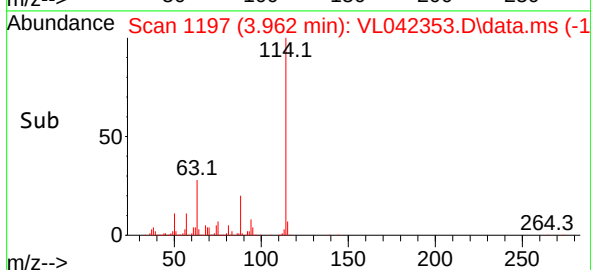
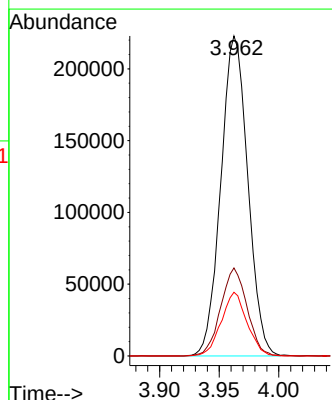
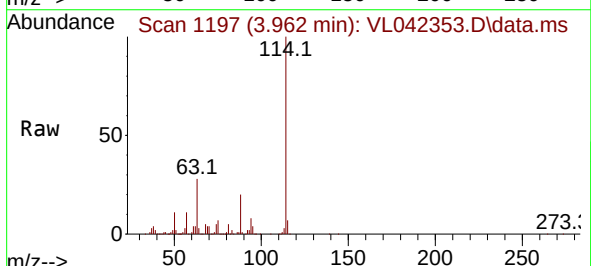
Tgt Ion: 114 Resp: 350484

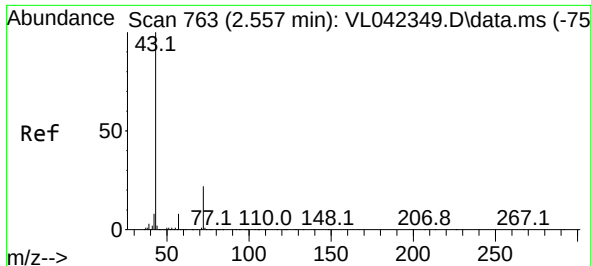
Ion Ratio Lower Upper

114 100

63 26.9 21.8 32.6

88 19.1 15.5 23.3

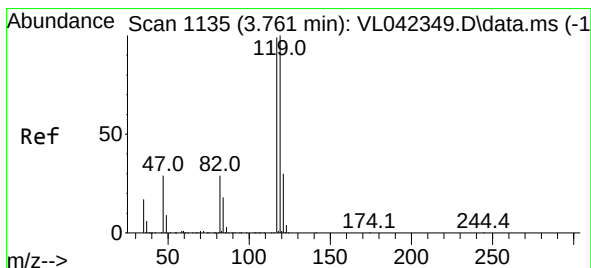
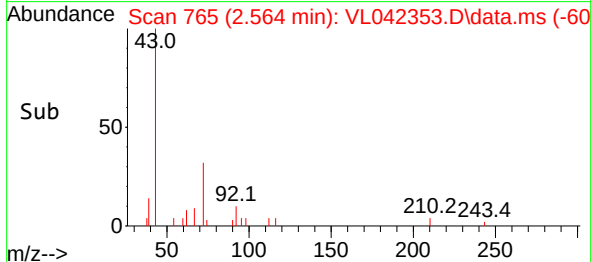
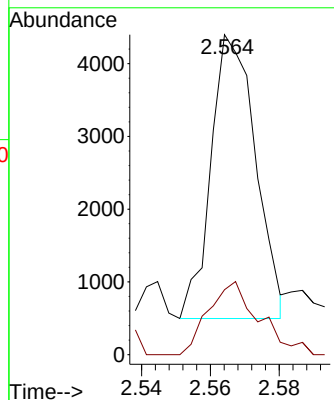
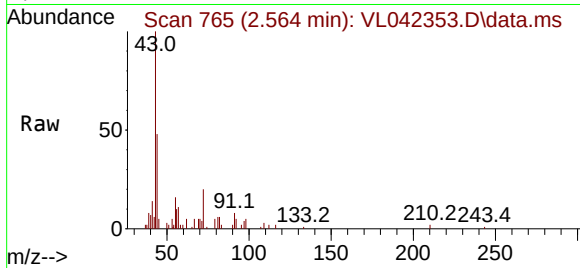




#34
2-Butanone
Concen: 0.126 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.007 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

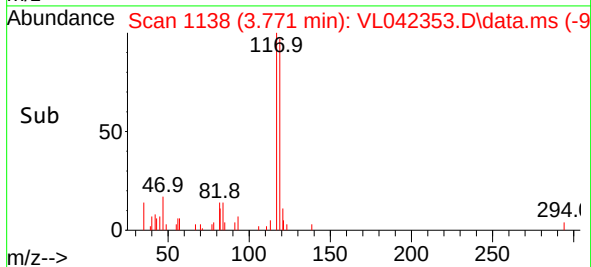
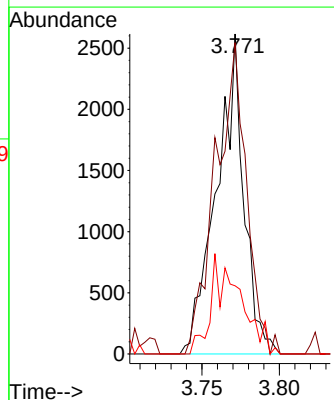
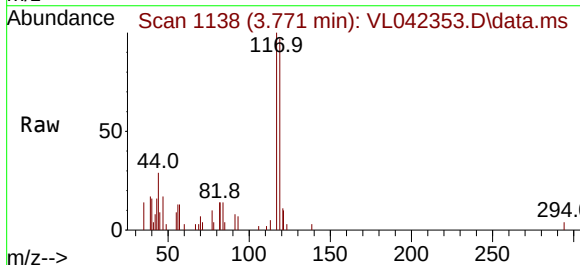
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

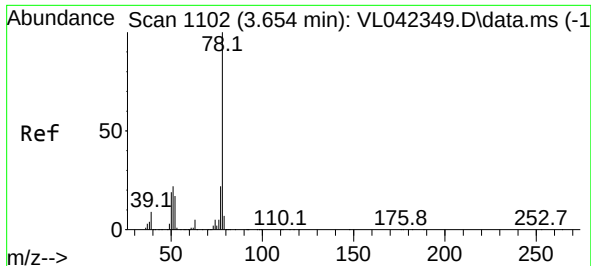
Tgt Ion: 43 Resp: 3506
Ion Ratio Lower Upper
43 100
72 32.7 18.2 27.2#



#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#

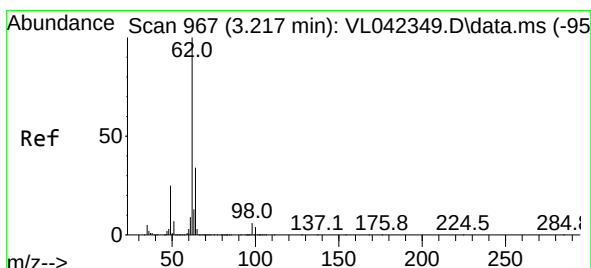
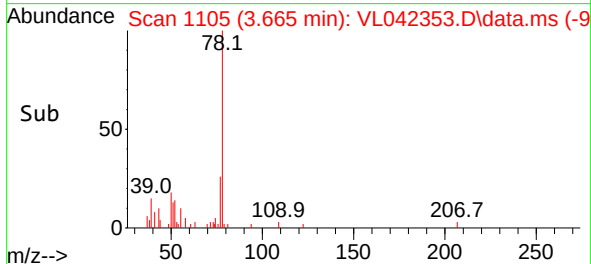
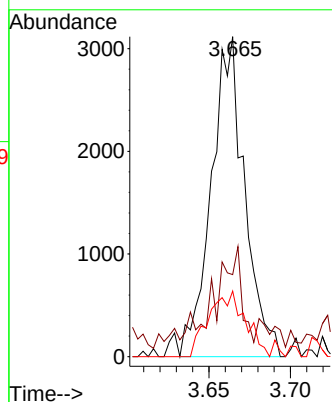
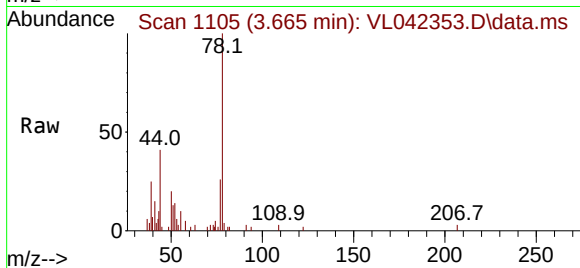




#36
Benzene
Concen: 0.117 ppbv
RT: 3.665 min Scan# 1105
Delta R.T. 0.010 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

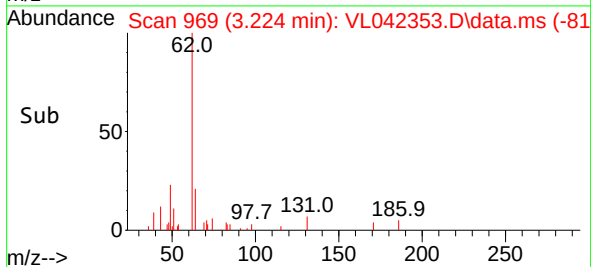
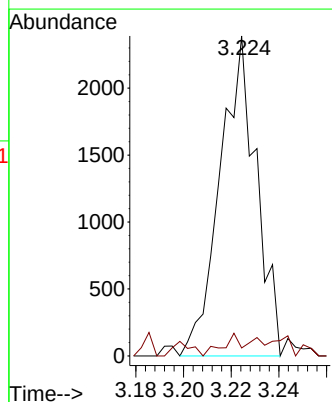
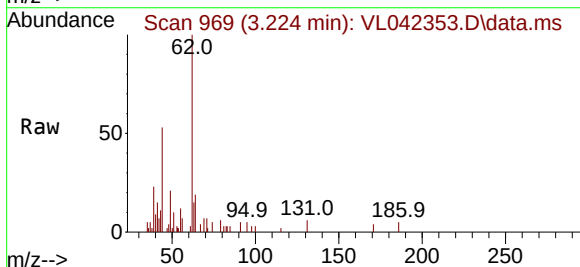
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

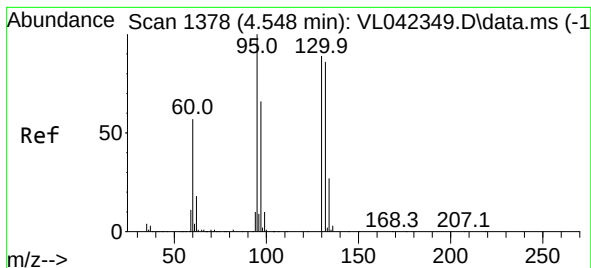
Tgt Ion: 78 Resp: 4424
Ion Ratio Lower Upper
78 100
77 20.4 17.4 26.0
50 20.5 15.5 23.3



#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# 1113

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

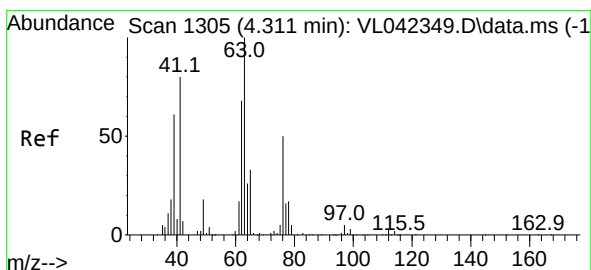
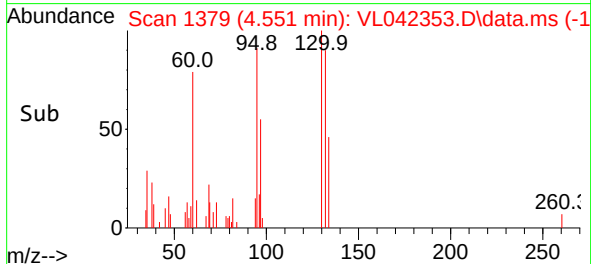
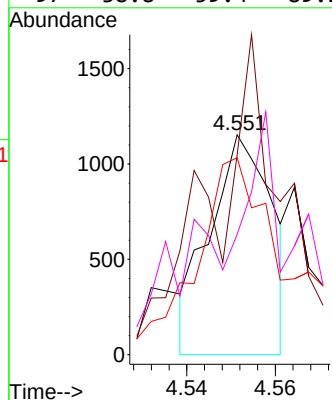
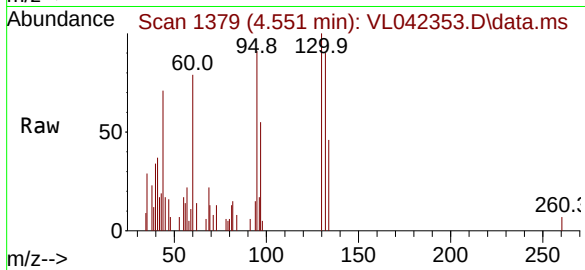
Ion Ratio Lower Upper

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

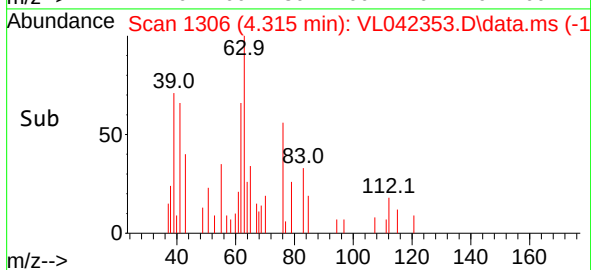
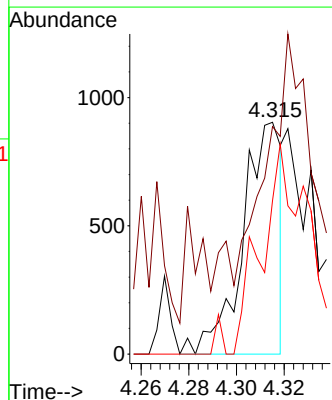
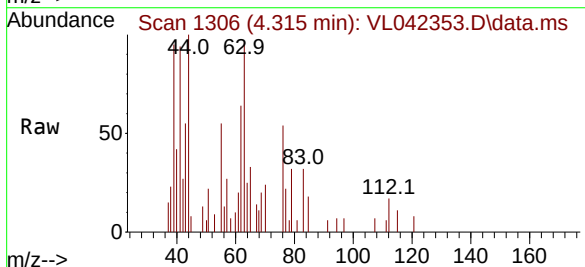
Tgt Ion: 63 Resp: 1007

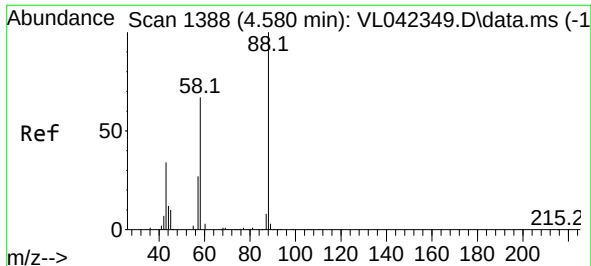
Ion Ratio Lower Upper

63 100

41 84.8 64.2 96.2

62 66.2 54.3 81.5



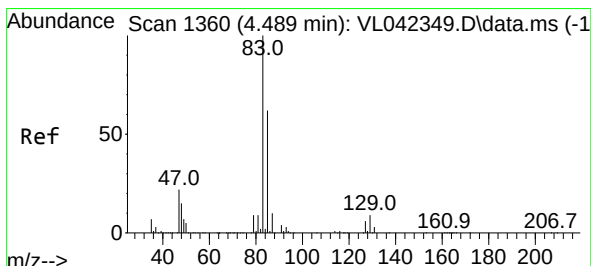
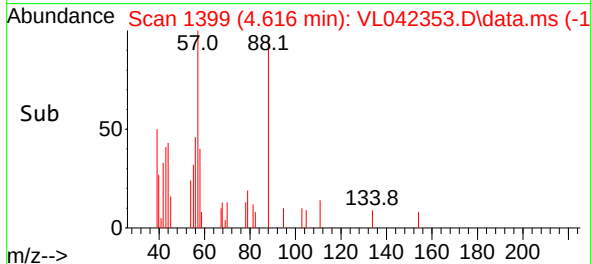
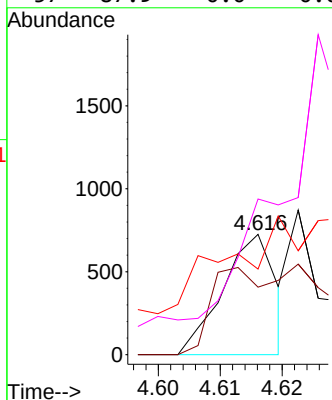
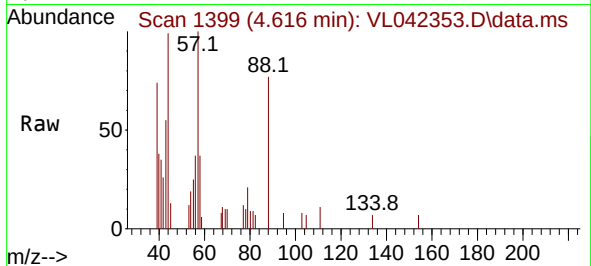


#40
1,4-Dioxane
Concen: 0.056 ppbv
RT: 4.616 min Scan# 1399
Delta R.T. 0.036 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

Tgt Ion: 88 Resp: 431

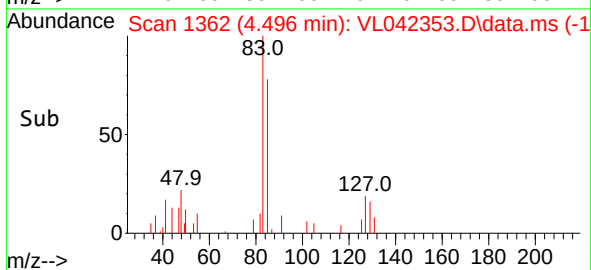
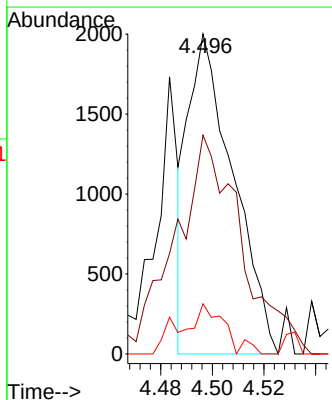
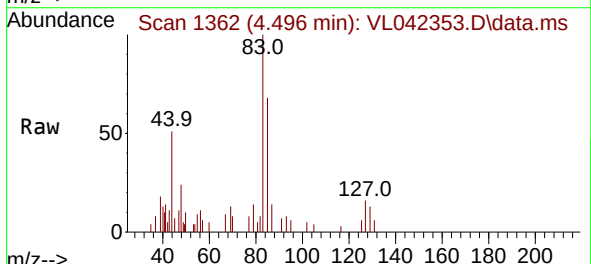
Ion	Ratio	Lower	Upper
88	100		
58	18.1	61.4	92.0#
43	247.6	23.2	34.8#
57	87.9	0.0	0.0#

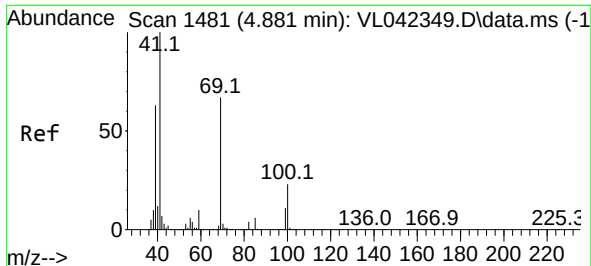


#42
Bromodichloromethane
Concen: 0.077 ppbv
RT: 4.496 min Scan# 1362
Delta R.T. 0.007 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

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

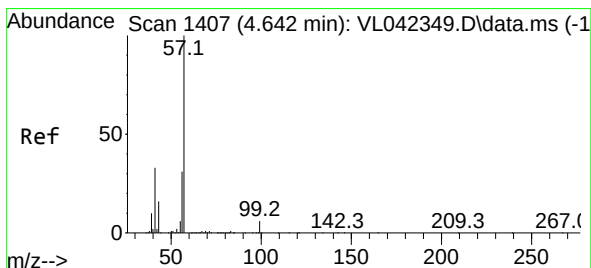
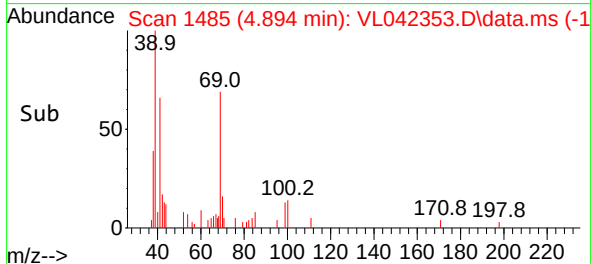
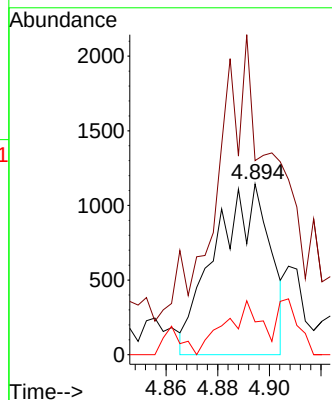
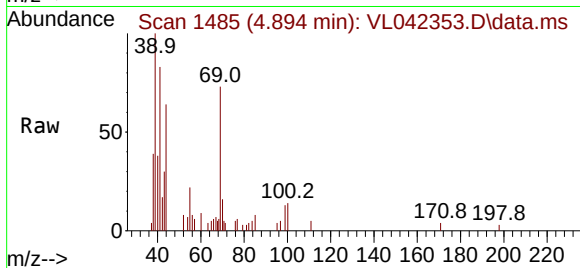
Tgt Ion: 69 Resp: 1683

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

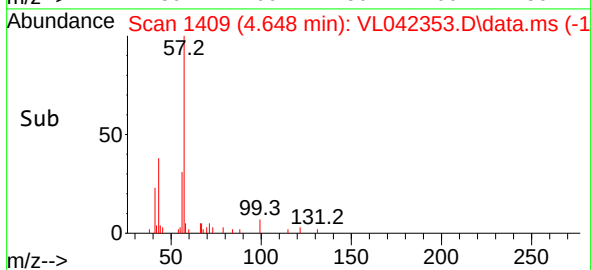
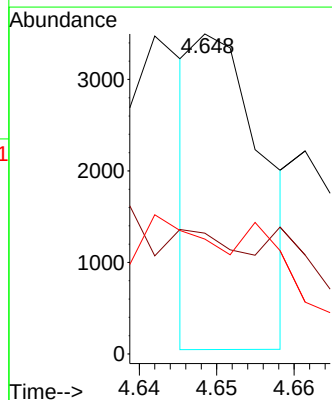
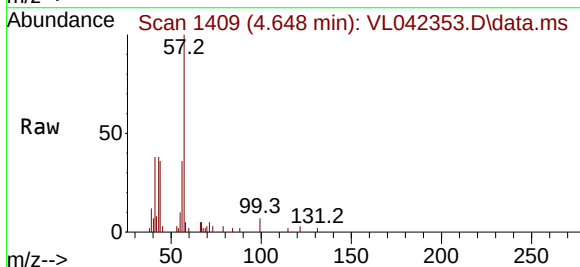
Tgt Ion: 57 Resp: 2115

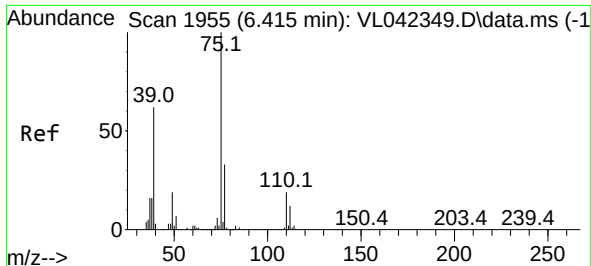
Ion Ratio Lower Upper

57 100

41 0.0 27.2 40.8#

56 0.0 25.7 38.5#

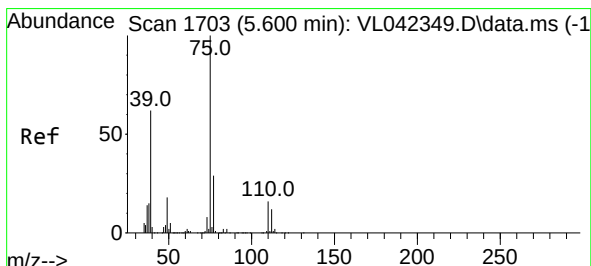
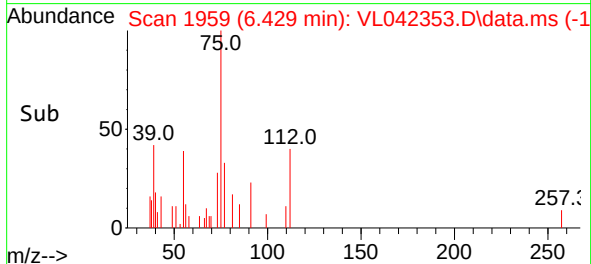
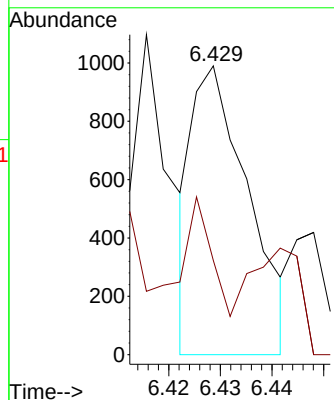
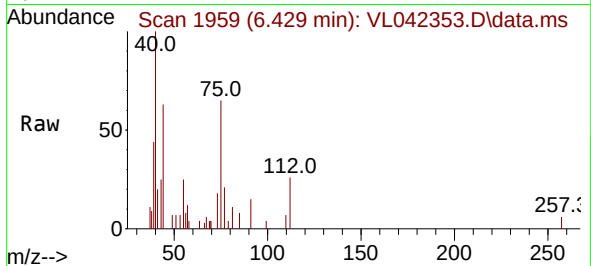




#45
 t-1,3-Dichloropropene
 Concen: 0.043 ppbv
 RT: 6.429 min Scan# 1955
 Delta R.T. 0.013 min
 Lab File: VL042353.D
 Acq: 17 Apr 2025 11:50

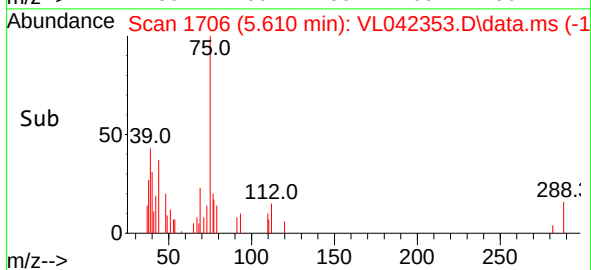
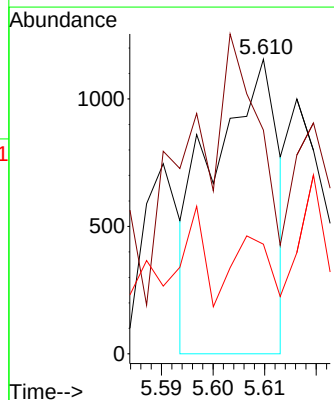
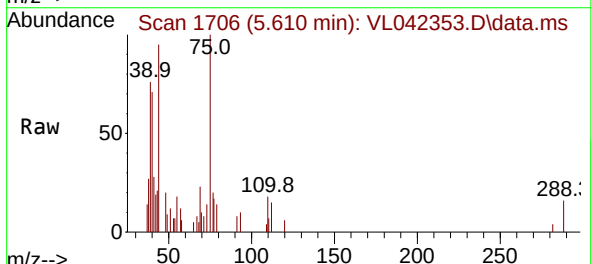
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

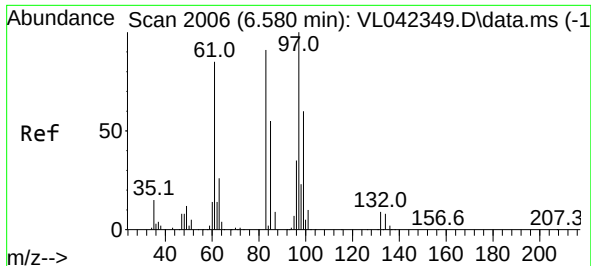
Tgt Ion: 75 Resp: 748
 Ion Ratio Lower Upper
 75 100
 77 32.6 27.0 40.6



#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

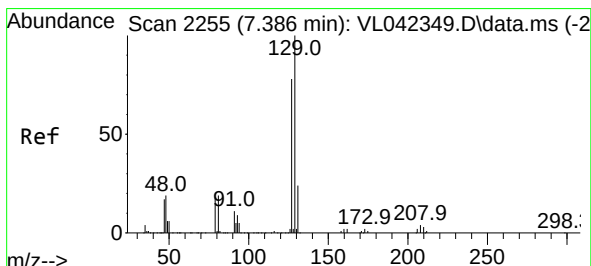
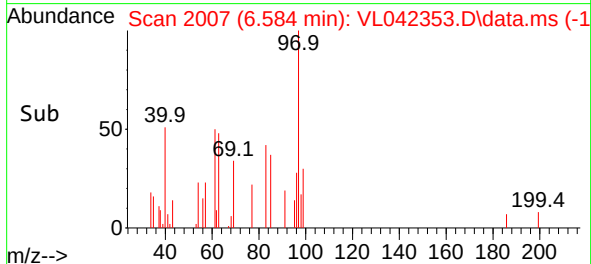
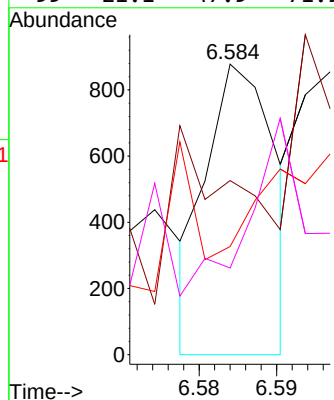
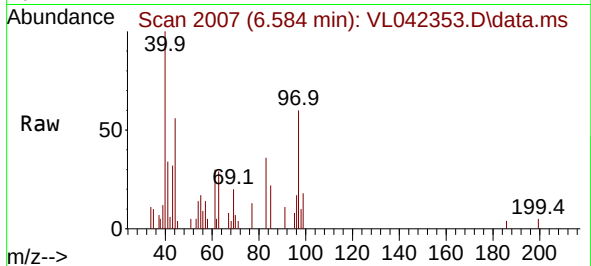




#47
1,1,2-Trichloroethane
Concen: 0.038 ppbv
RT: 6.584 min Scan# 2006
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

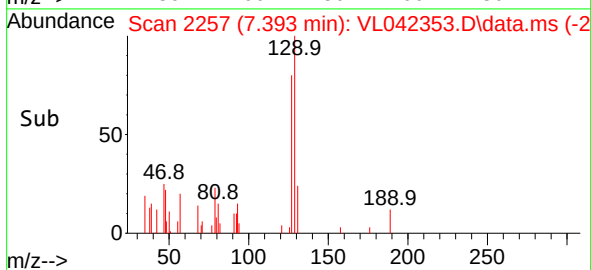
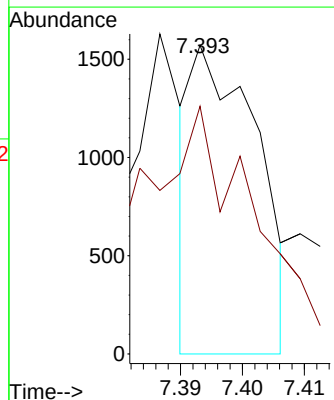
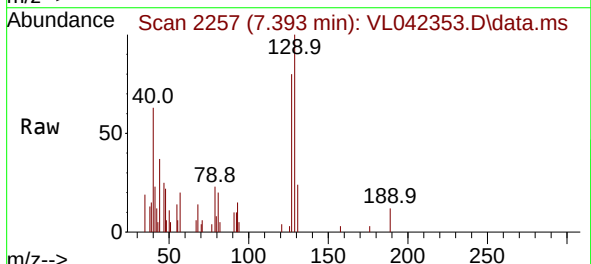
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

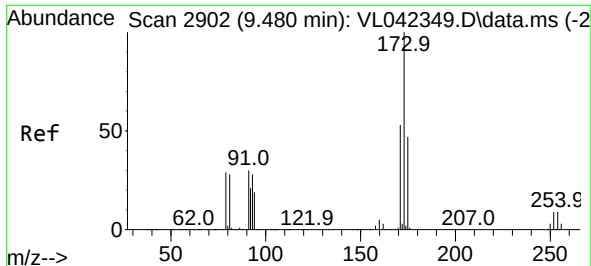
Tgt Ion:	97	Resp:	540
Ion	Ratio	Lower	Upper
97	100		
83	36.8	72.8	109.2#
85	0.0	44.2	66.4#
99	21.1	47.9	71.9#



#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#

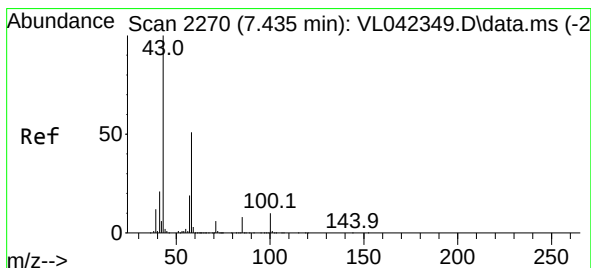
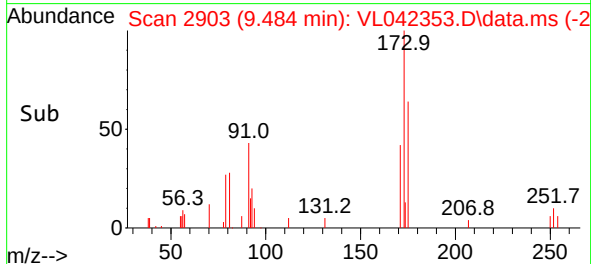
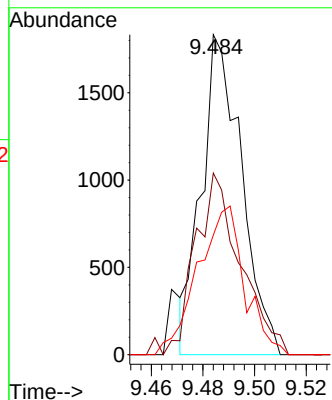
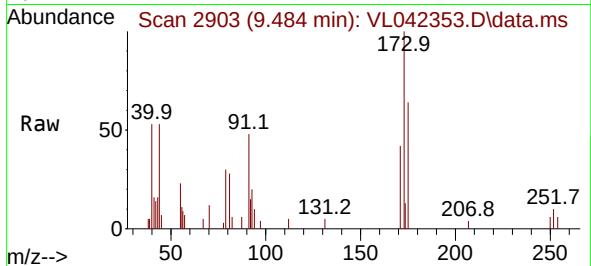




#49
Bromoform
Concen: 0.089 ppbv
RT: 9.484 min Scan# 2903
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

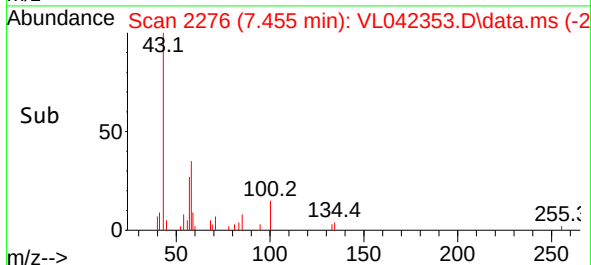
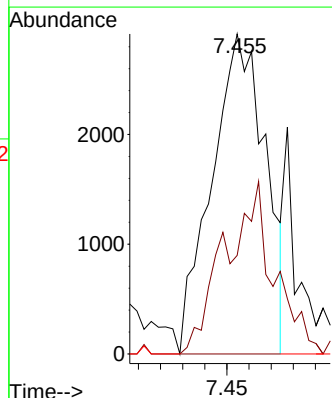
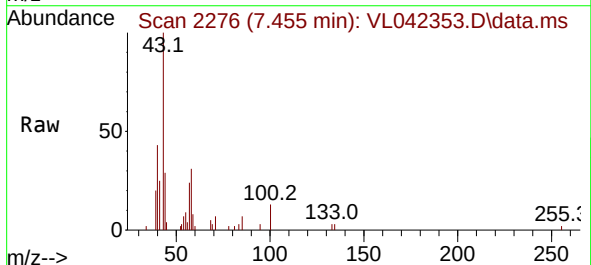
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

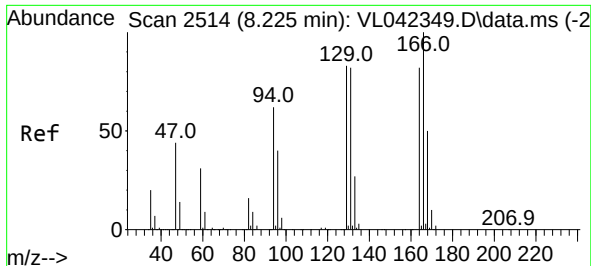
Tgt Ion:173 Resp: 1973
Ion Ratio Lower Upper
173 100
175 64.7 38.2 57.2#
171 54.2 40.9 61.3



#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#

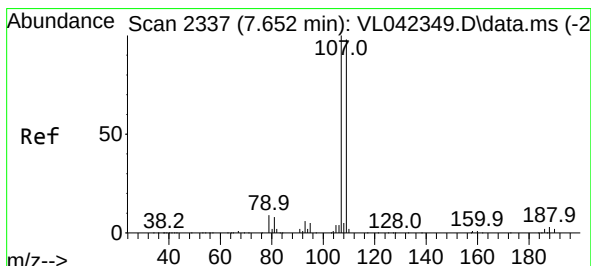
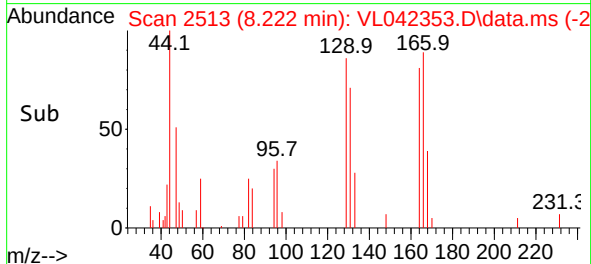
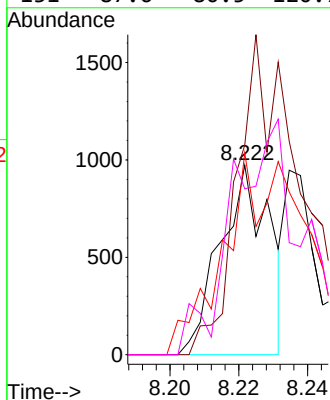
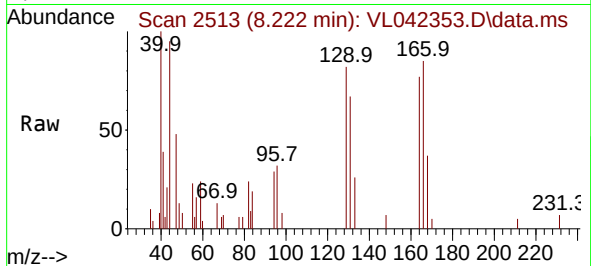




#52
Tetrachloroethene
Concen: 0.065 ppbv
RT: 8.222 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

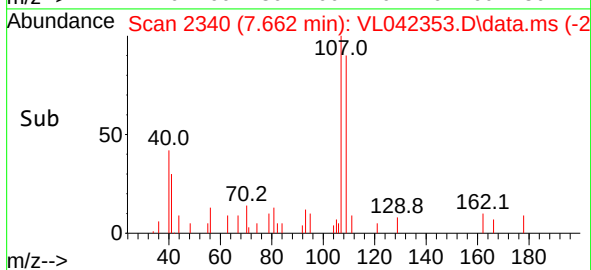
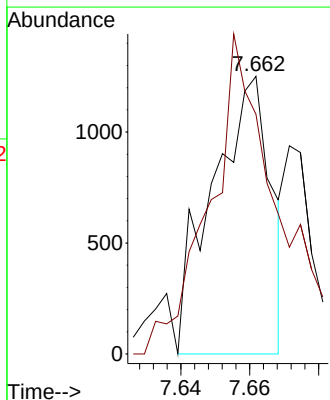
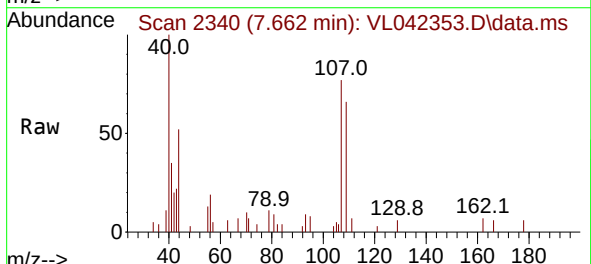
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

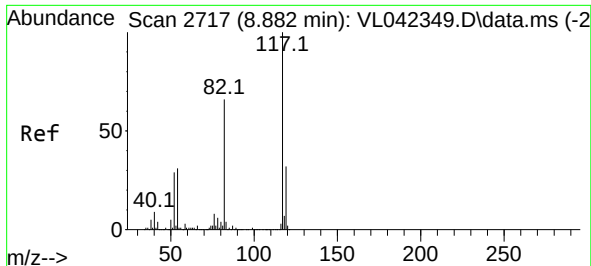
Tgt Ion:164	Resp:	957	
Ion	Ratio	Lower	Upper
164	100		
166	110.6	98.2	147.2
129	88.3	81.8	122.8
131	87.6	80.5	120.7



#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#

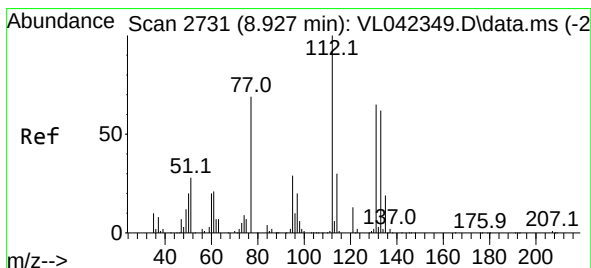
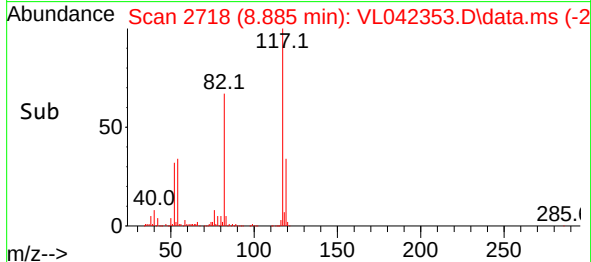
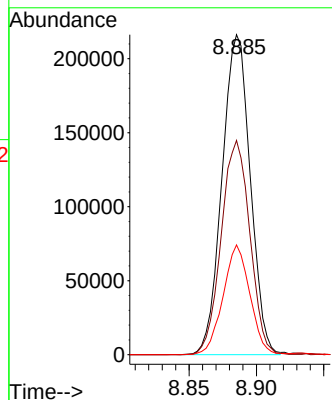
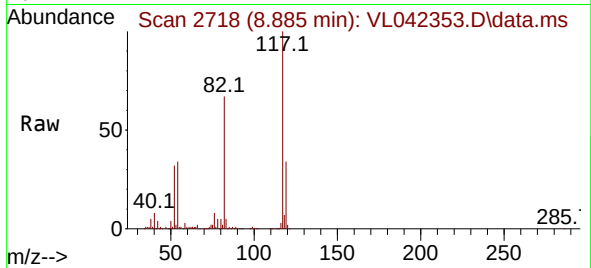




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2717
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

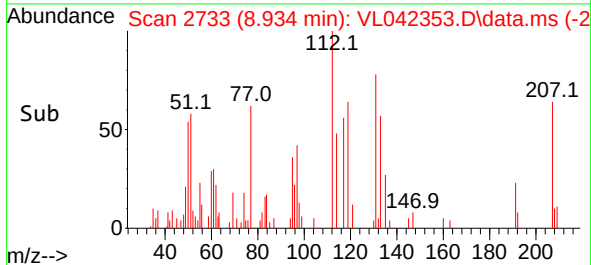
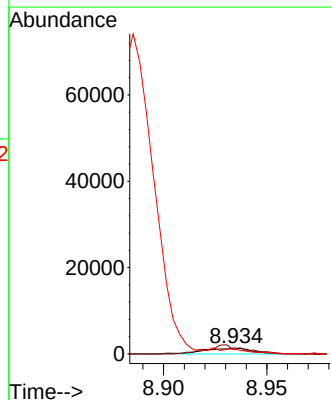
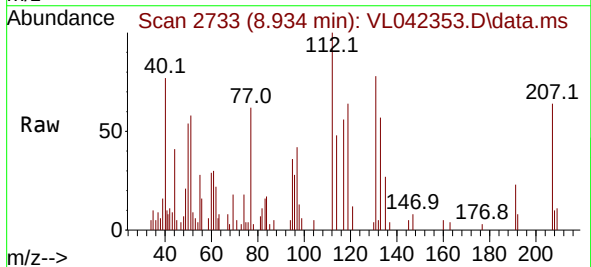
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

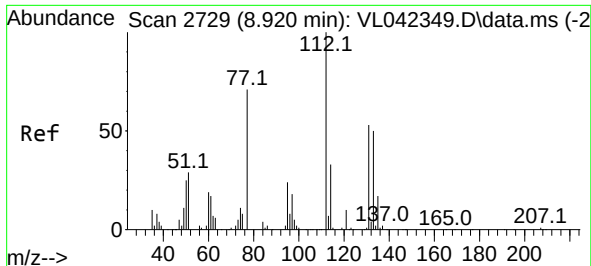
Tgt Ion:117 Resp: 315004
Ion Ratio Lower Upper
117 100
82 68.1 57.8 86.6
119 33.0 25.2 37.8



#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#

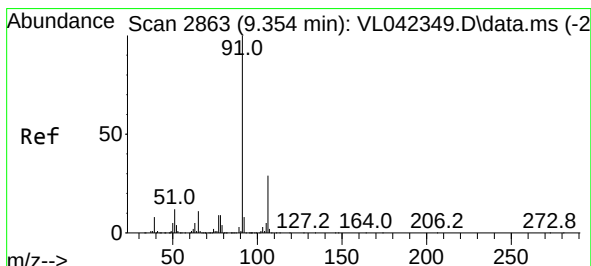
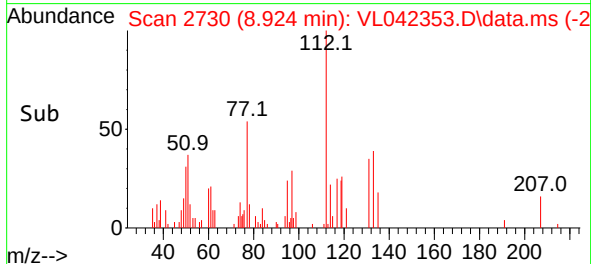
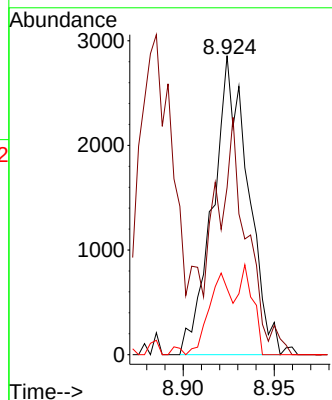
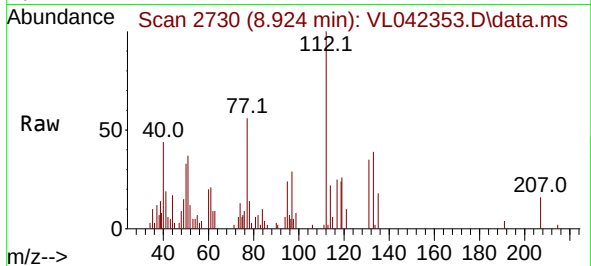




#57
Chlorobenzene
Concen: 0.117 ppbv
RT: 8.924 min Scan# 21
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

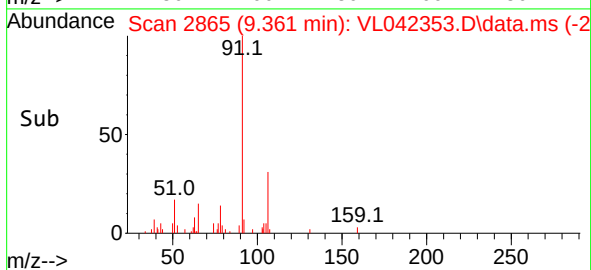
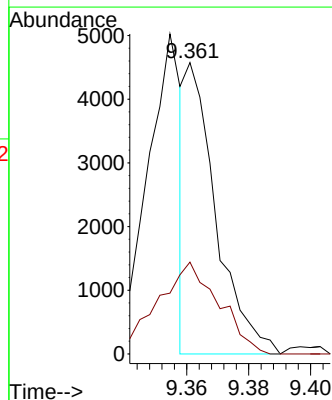
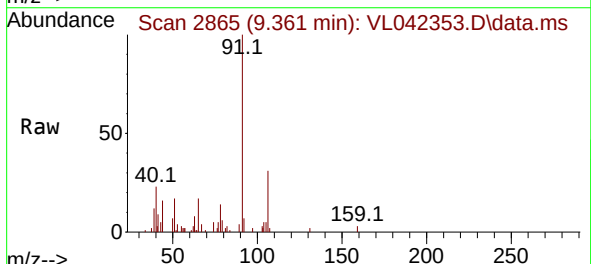
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

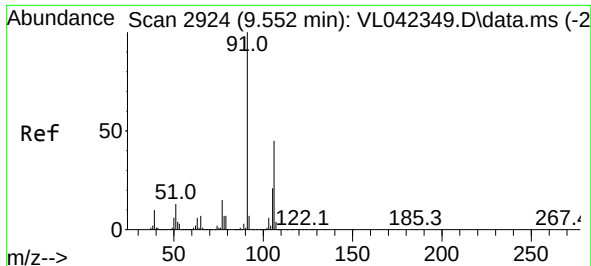
Tgt Ion: 112 Resp: 3842
Ion Ratio Lower Upper
112 100
77 50.6 57.8 86.6#
114 22.1 29.3 35.9#



#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 :

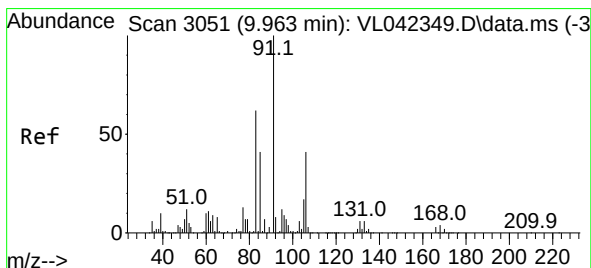
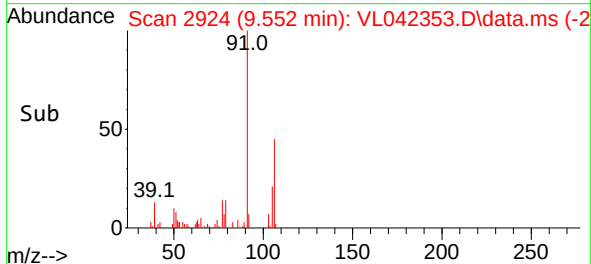
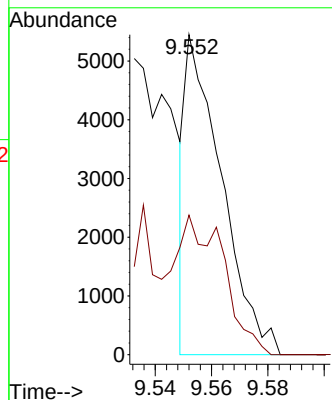
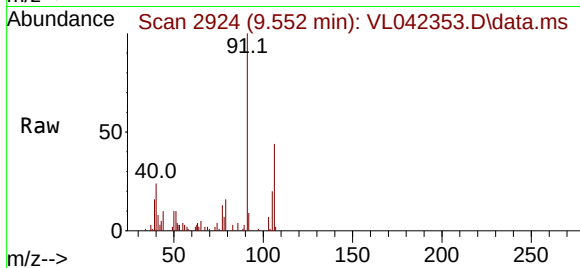
VSTDIC0.1

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

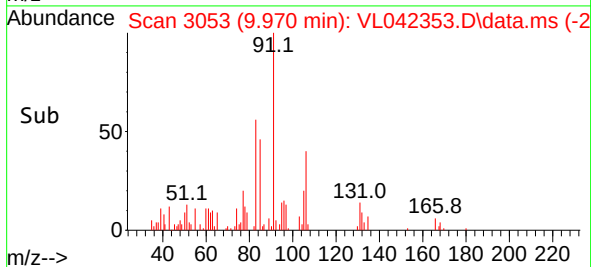
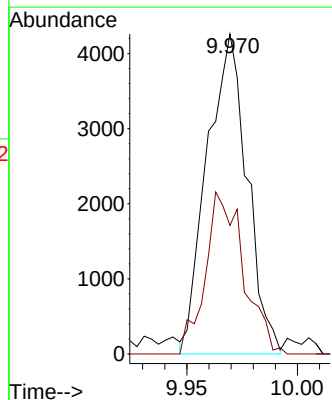
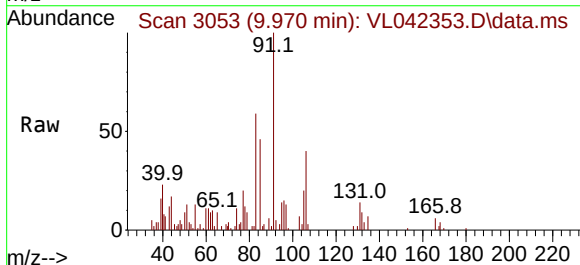
Acq: 17 Apr 2025 11:50

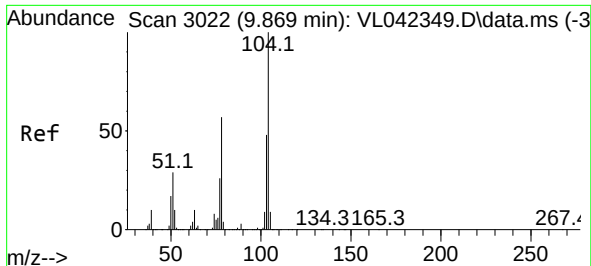
Tgt Ion: 91 Resp: 5359

Ion Ratio Lower Upper

91 100

106 48.3 21.1 63.4

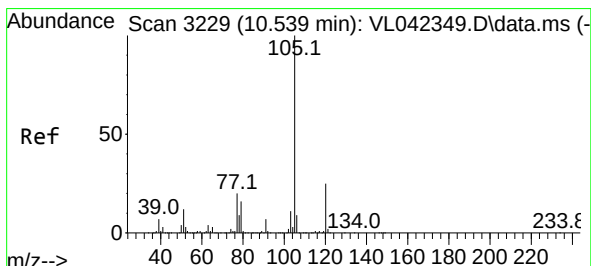
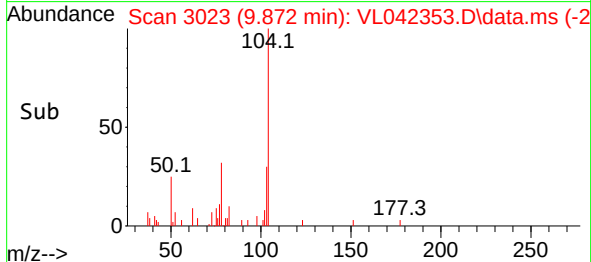
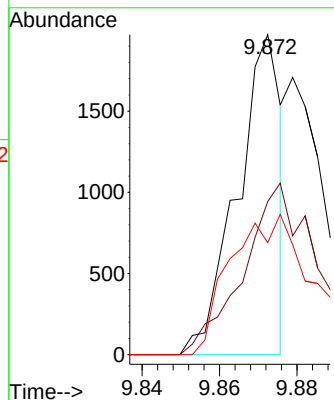
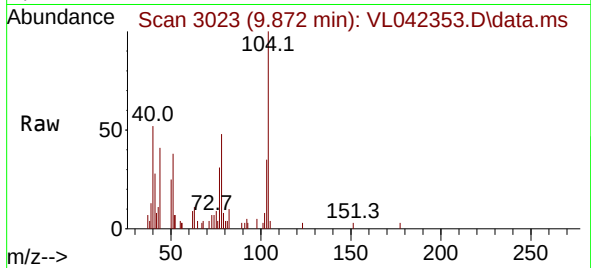




#61
Styrene
Concen: 0.064 ppbv
RT: 9.872 min Scan# 3023
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

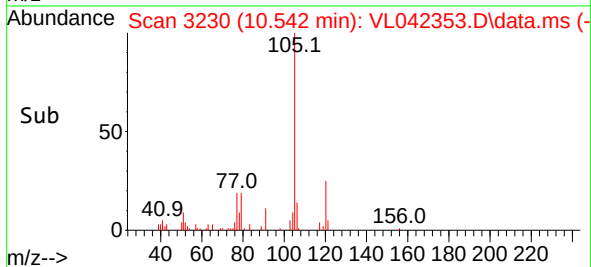
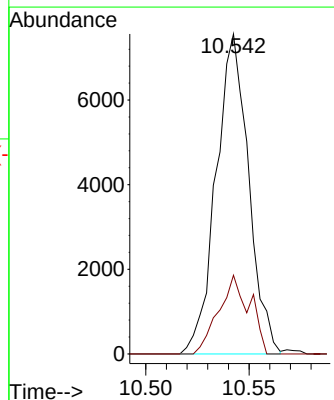
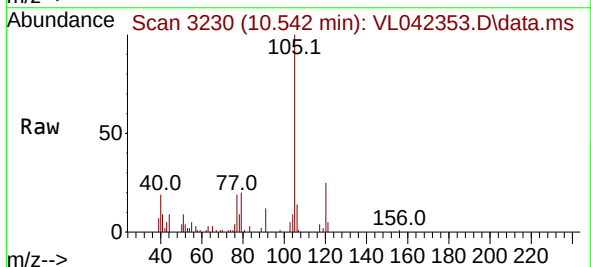
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

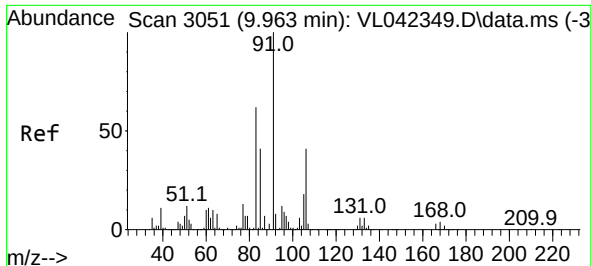
Tgt Ion:104 Resp: 1549
Ion Ratio Lower Upper
104 100
78 0.0 44.6 66.8#
103 0.0 37.4 56.0#



#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

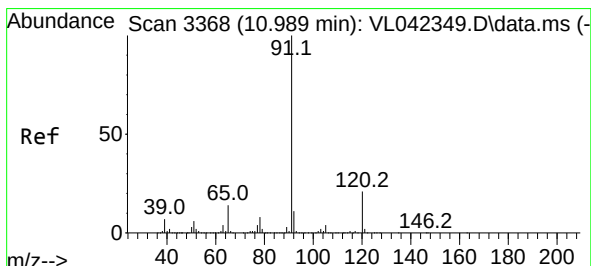
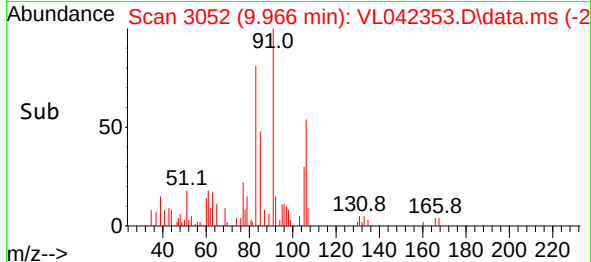
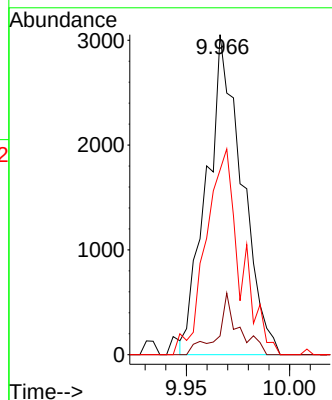
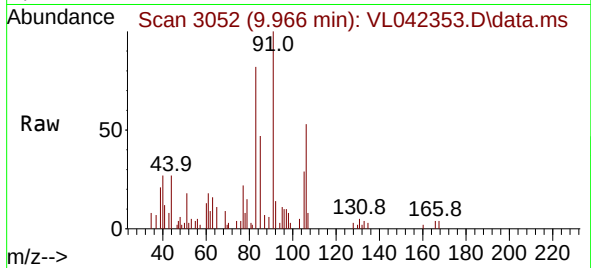




#63
1,1,2,2-Tetrachloroethane
Concen: 0.111 ppbv
RT: 9.966 min Scan# 3051
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

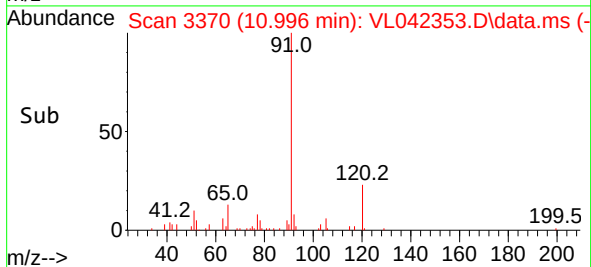
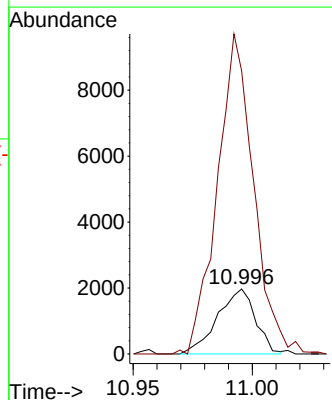
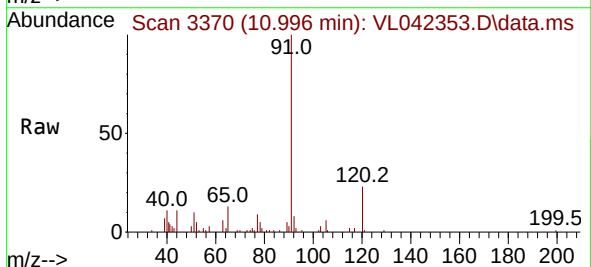
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

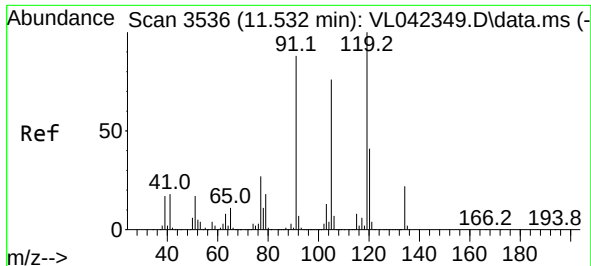
Tgt Ion: 83 Resp: 3646
Ion Ratio Lower Upper
83 100
131 11.4 4.5 13.7
85 62.7 32.4 97.0



#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

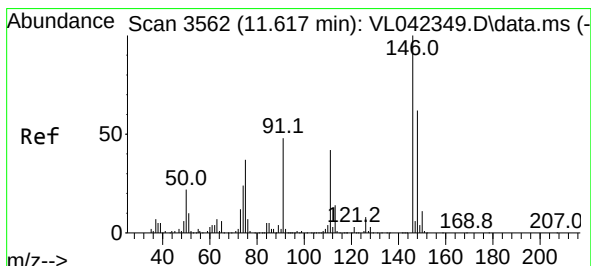
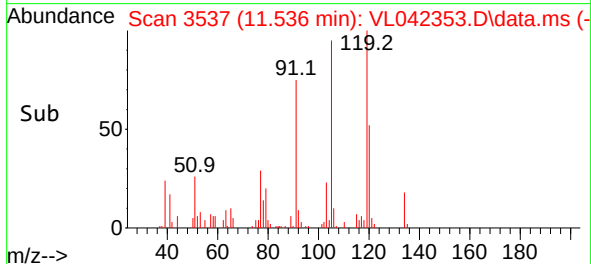
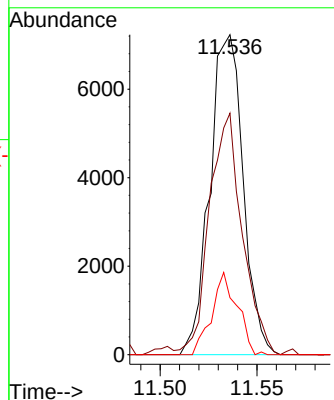
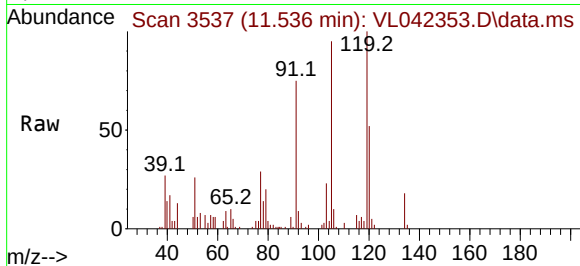




#65
tert-Butylbenzene
Concen: 0.127 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

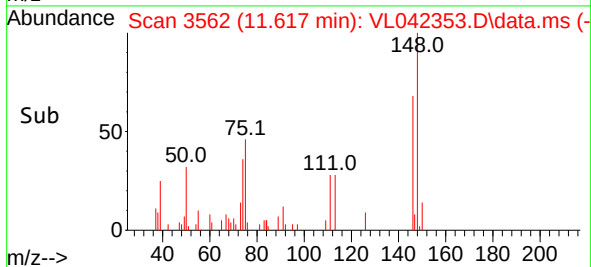
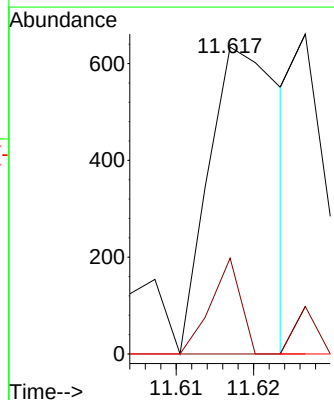
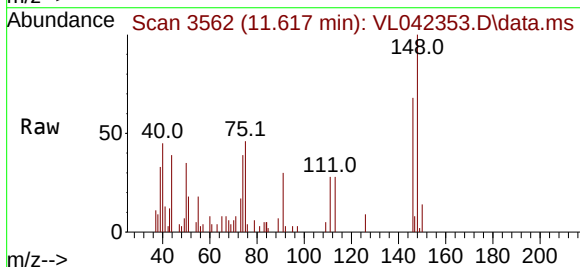
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

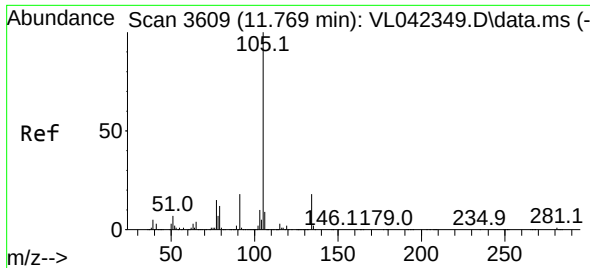
Tgt Ion:119 Resp: 8656
Ion Ratio Lower Upper
119 100
91 77.2 74.6 111.8
134 19.6 18.8 28.2



#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#

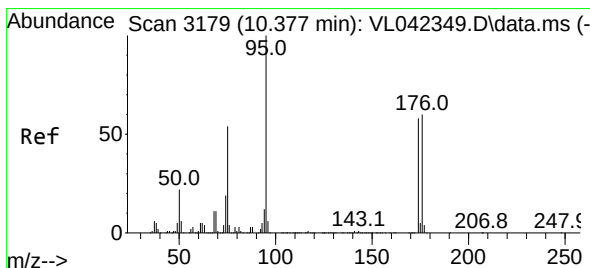
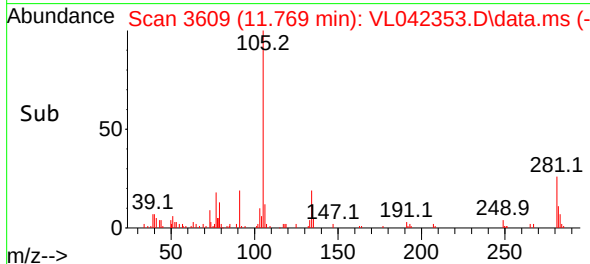
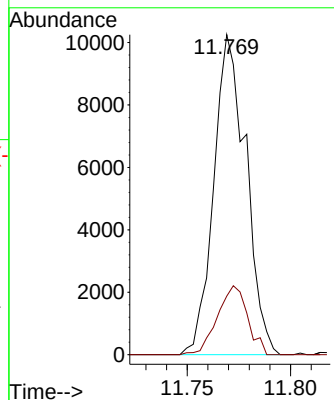
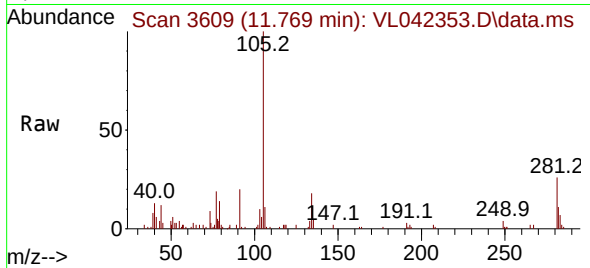




#67
 sec-Butylbenzene
 Concen: 0.117 ppbv
 RT: 11.769 min Scan# 3180
 Delta R.T. 0.000 min
 Lab File: VL042353.D
 Acq: 17 Apr 2025 11:50

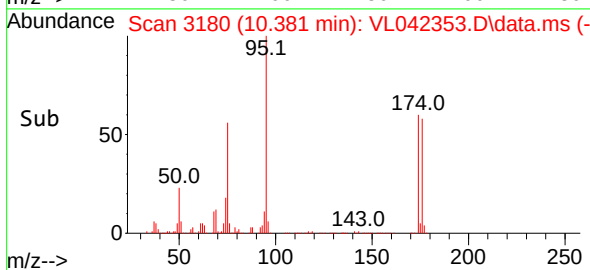
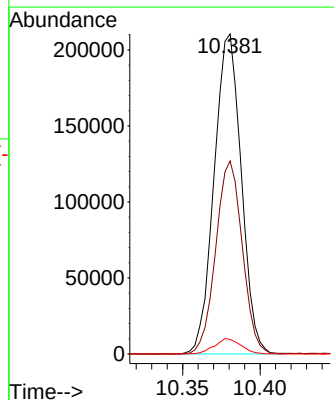
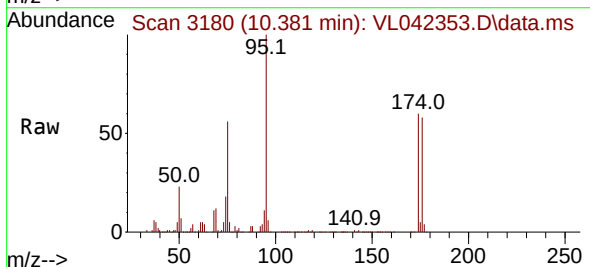
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

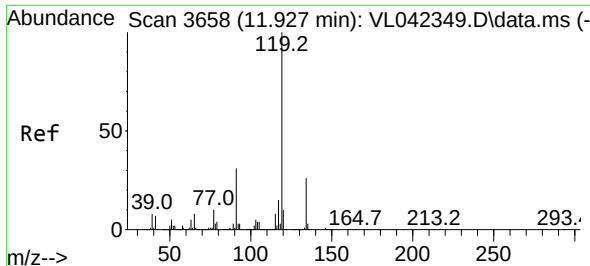
Tgt Ion:105 Resp: 11126
 Ion Ratio Lower Upper
 105 100
 134 20.2 14.6 21.8



#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

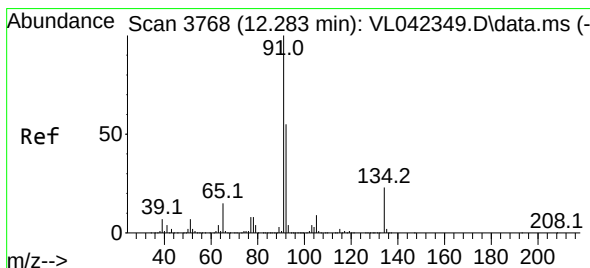
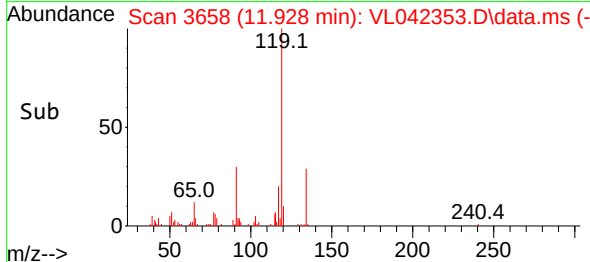
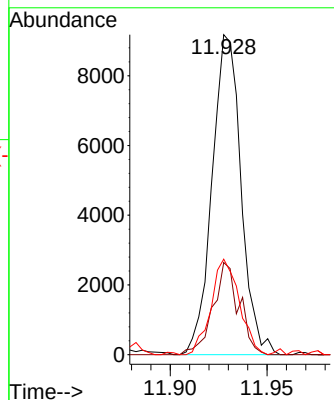
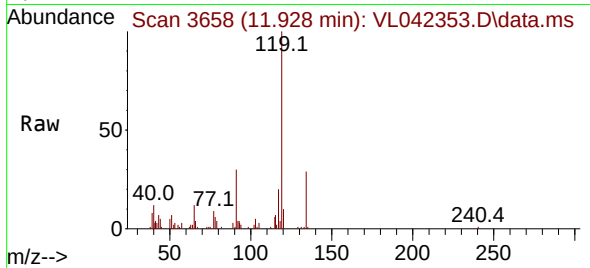




#69
p-Isopropyltoluene
Concen: 0.115 ppbv
RT: 11.928 min Scan# 3658
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

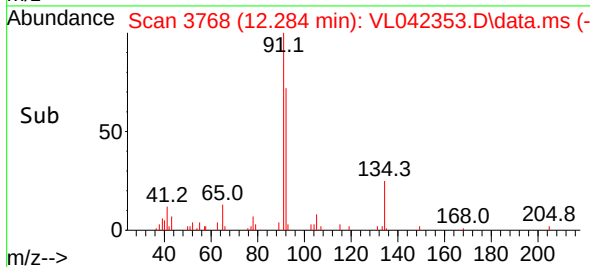
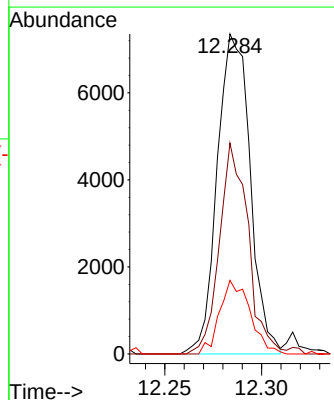
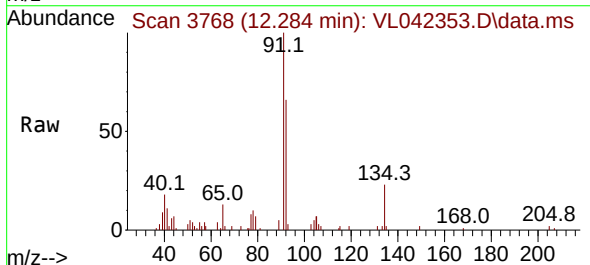
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

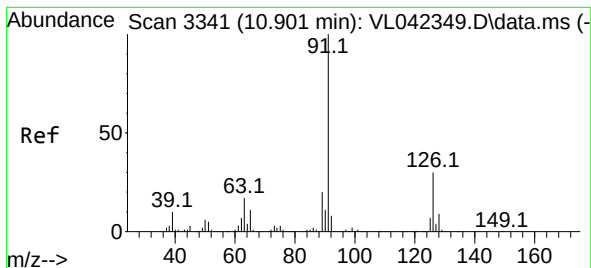
Tgt Ion:	119	Resp:	9534
Ion Ratio	Lower	Upper	
119	100		
134	26.0	20.0	30.0
91	31.6	24.4	36.6



#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 :

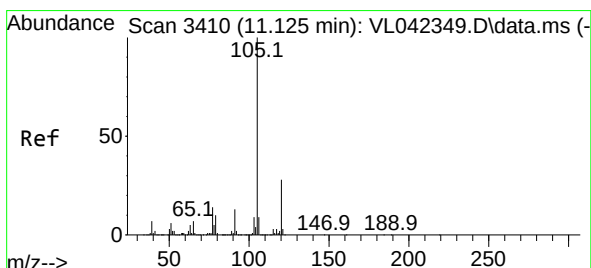
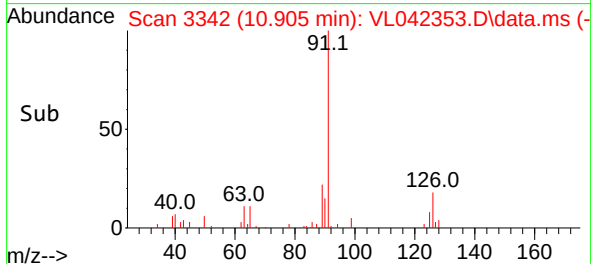
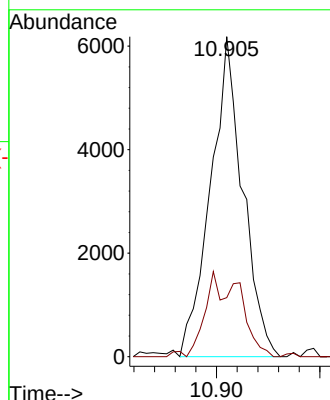
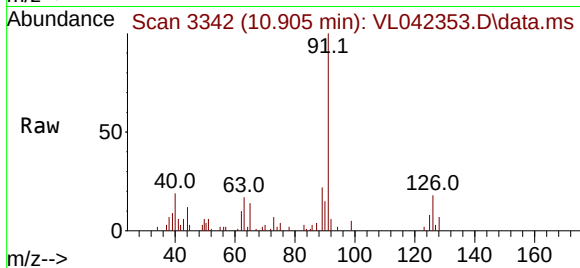
VSTDIC0.1

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

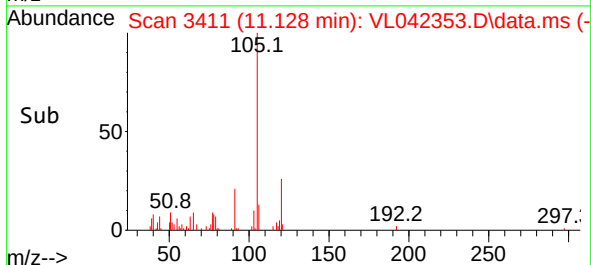
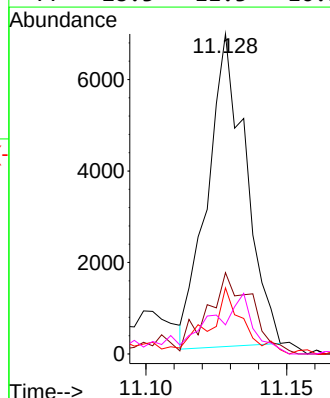
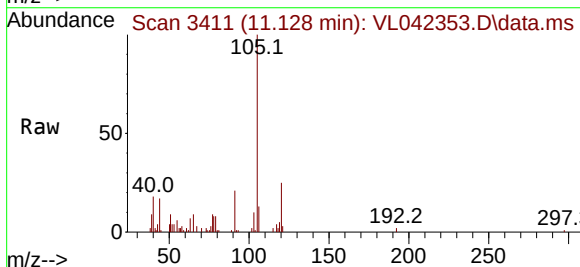
Ion Ratio Lower Upper

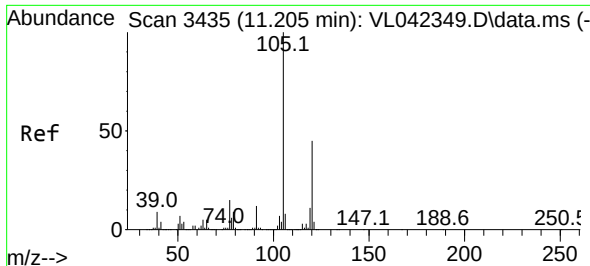
105 100

120 34.1 23.2 34.8

91 24.5 10.4 15.6#

77 28.3 11.3 16.9#

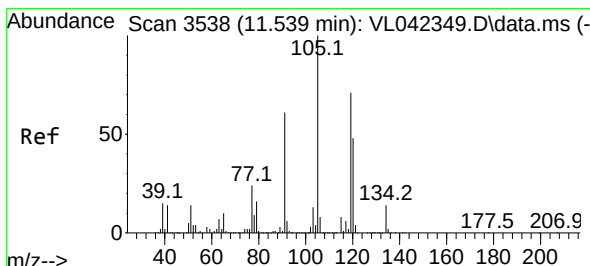
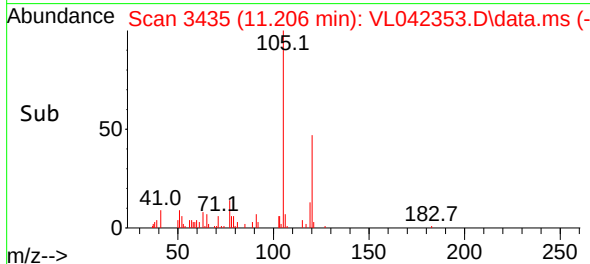
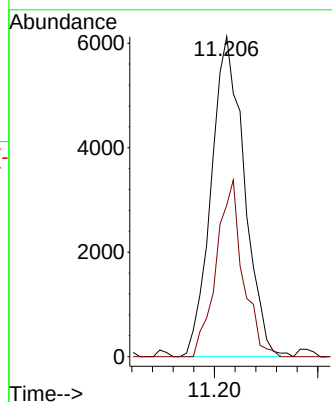
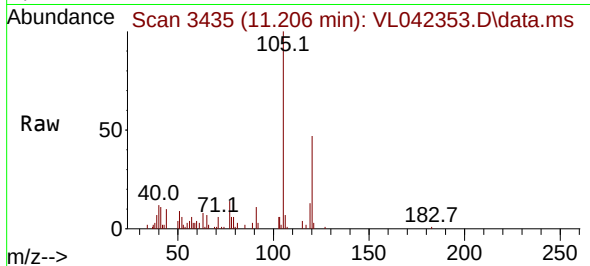




#73
1,3,5-Trimethylbenzene
Concen: 0.124 ppbv
RT: 11.206 min Scan# 3435
Delta R.T. 0.000 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

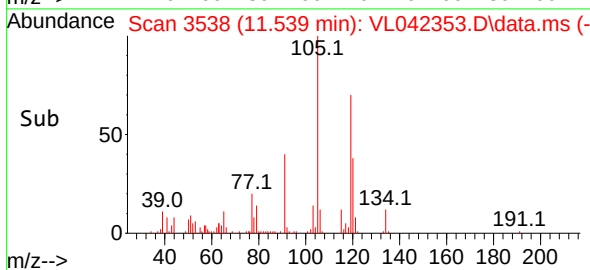
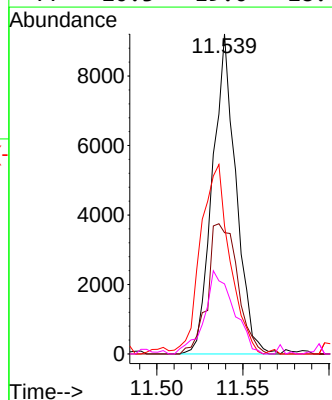
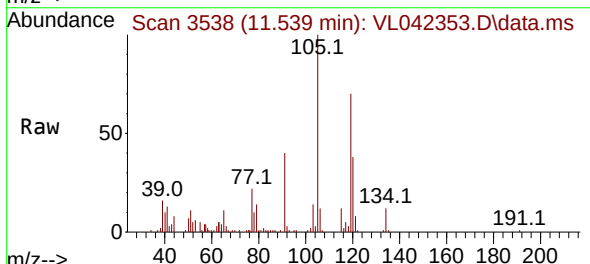
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

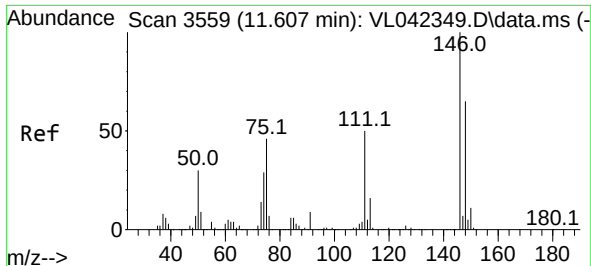
Tgt Ion:105 Resp: 6797
Ion Ratio Lower Upper
105 100
120 47.4 35.6 53.4



#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

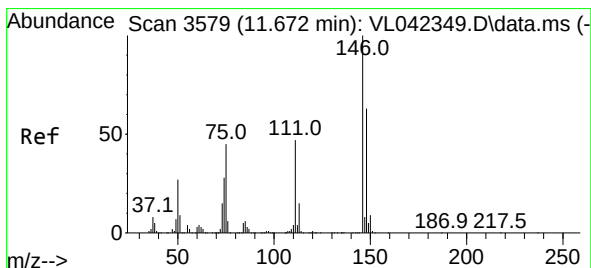
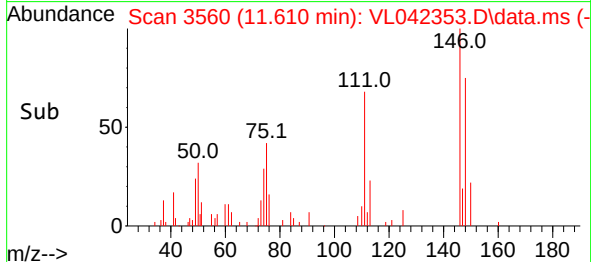
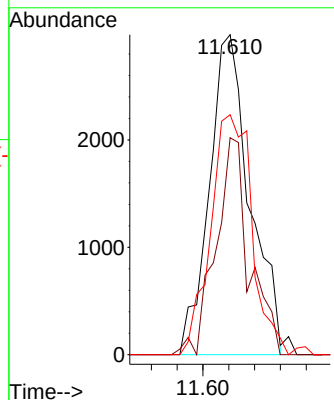
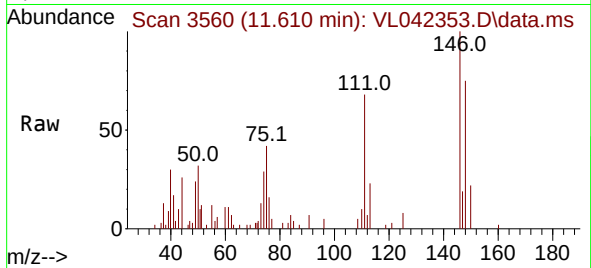




#75
1,3-Dichlorobenzene
Concen: 0.098 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

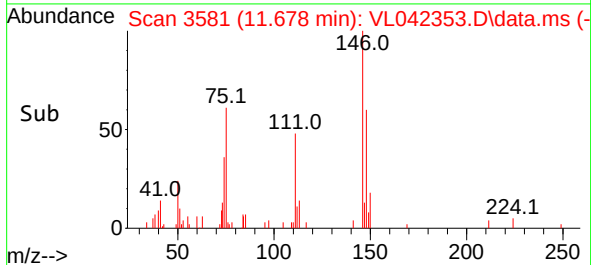
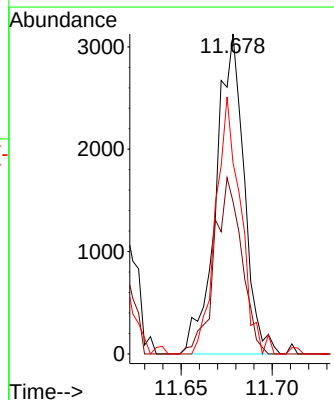
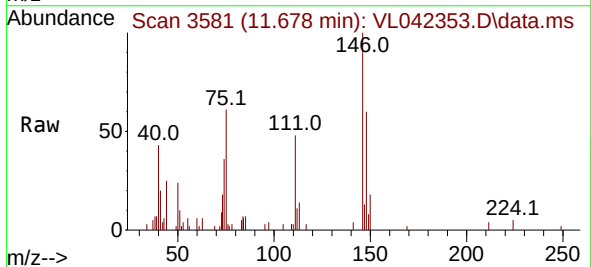
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

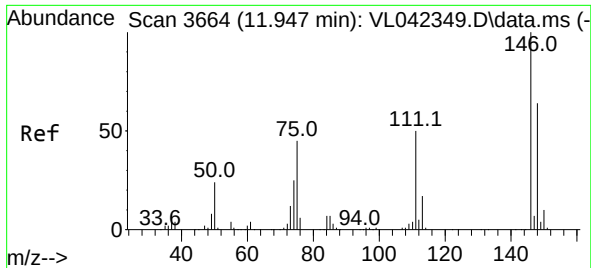
Tgt Ion:146 Resp: 3258
Ion Ratio Lower Upper
146 100
111 55.9 24.3 72.8
148 77.0 31.6 94.8



#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

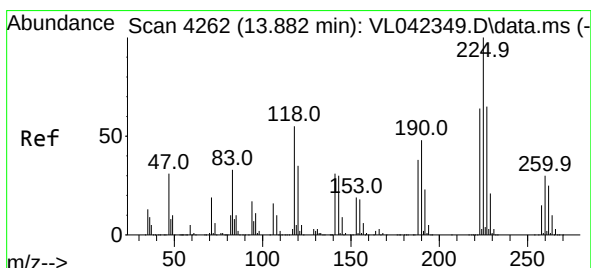
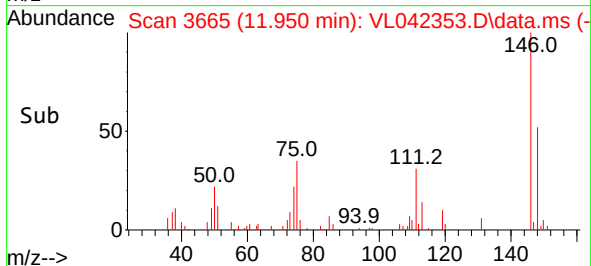
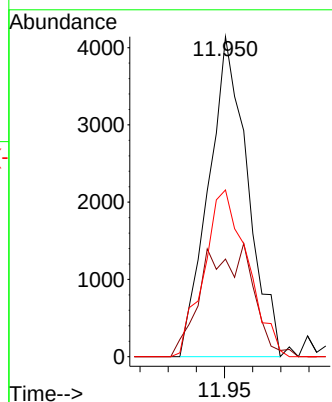
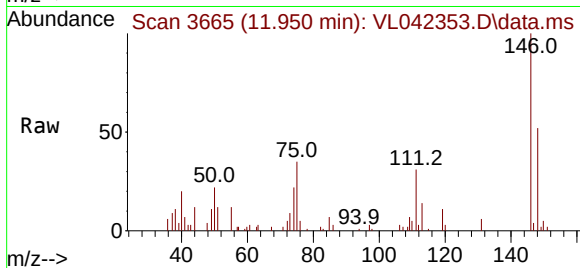




#77
 1,2-Dichlorobenzene
 Concen: 0.124 ppbv
 RT: 11.950 min Scan# 3665
 Delta R.T. 0.004 min
 Lab File: VL042353.D
 Acq: 17 Apr 2025 11:50

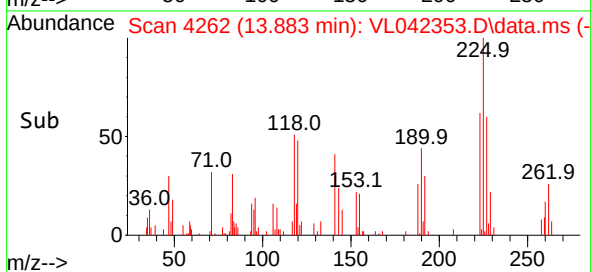
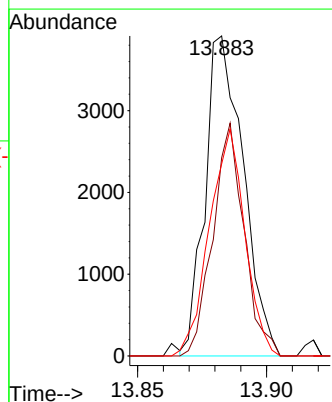
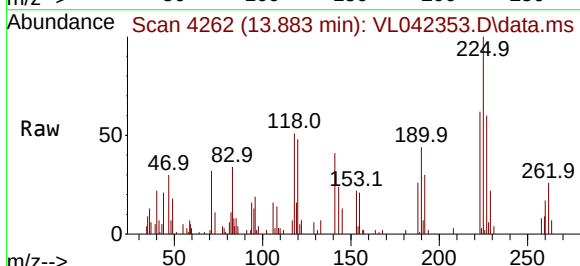
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

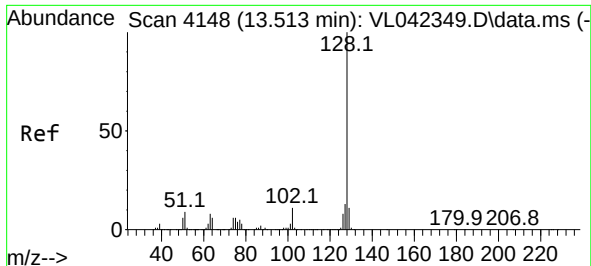
Tgt Ion:146	Resp:	3996
Ion	Ratio	Lower Upper
146	100	
111	45.1	25.3 75.9
148	58.1	31.5 94.5



#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

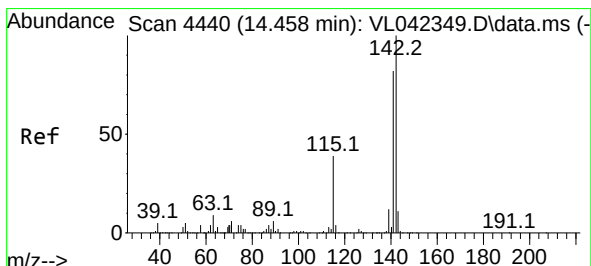
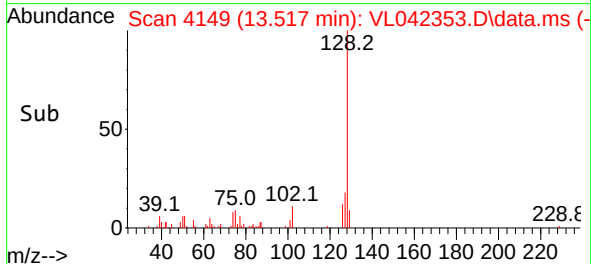
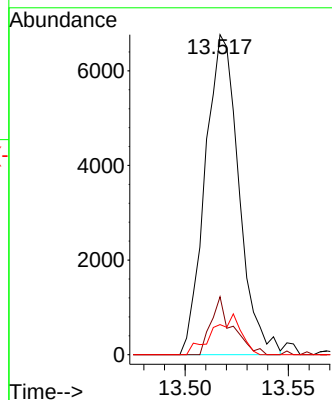
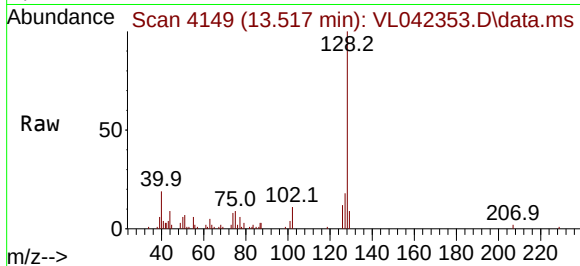




#79
Naphthalene
Concen: 0.100 ppbv
RT: 13.517 min Scan# 4148
Delta R.T. 0.004 min
Lab File: VL042353.D
Acq: 17 Apr 2025 11:50

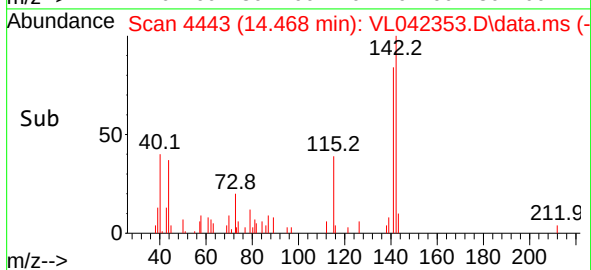
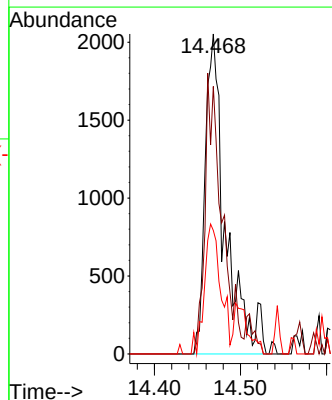
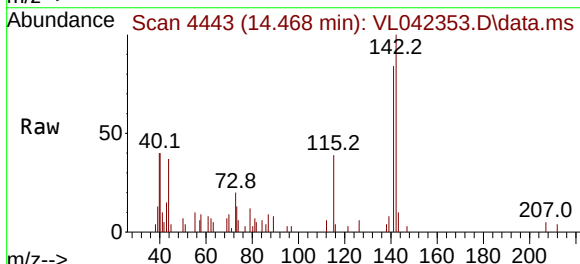
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

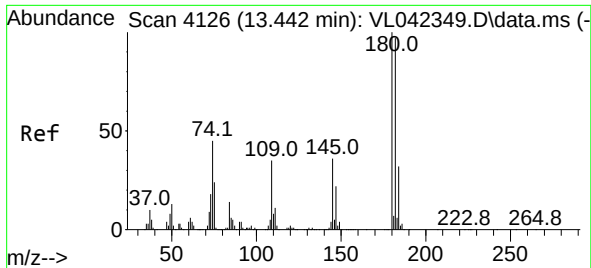
Tgt Ion:128 Resp: 7664
Ion Ratio Lower Upper
128 100
127 18.1 10.6 15.8#
129 9.4 8.6 12.8



#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

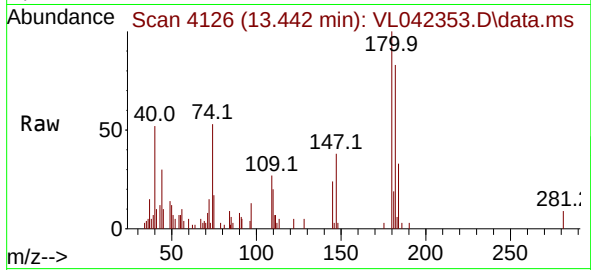
Acq: 17 Apr 2025 11:50

Instrument :

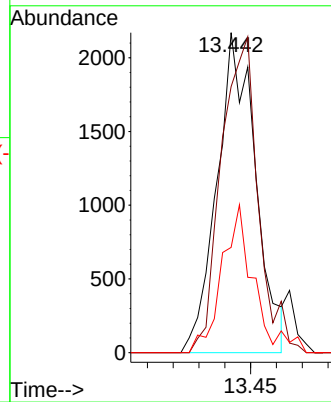
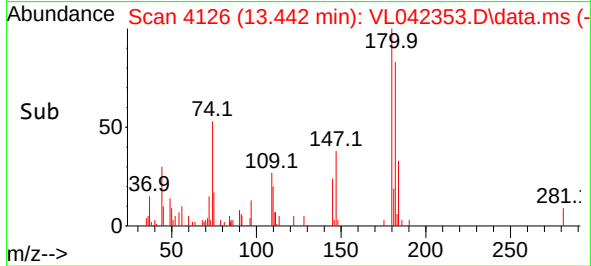
MSVOA_L

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

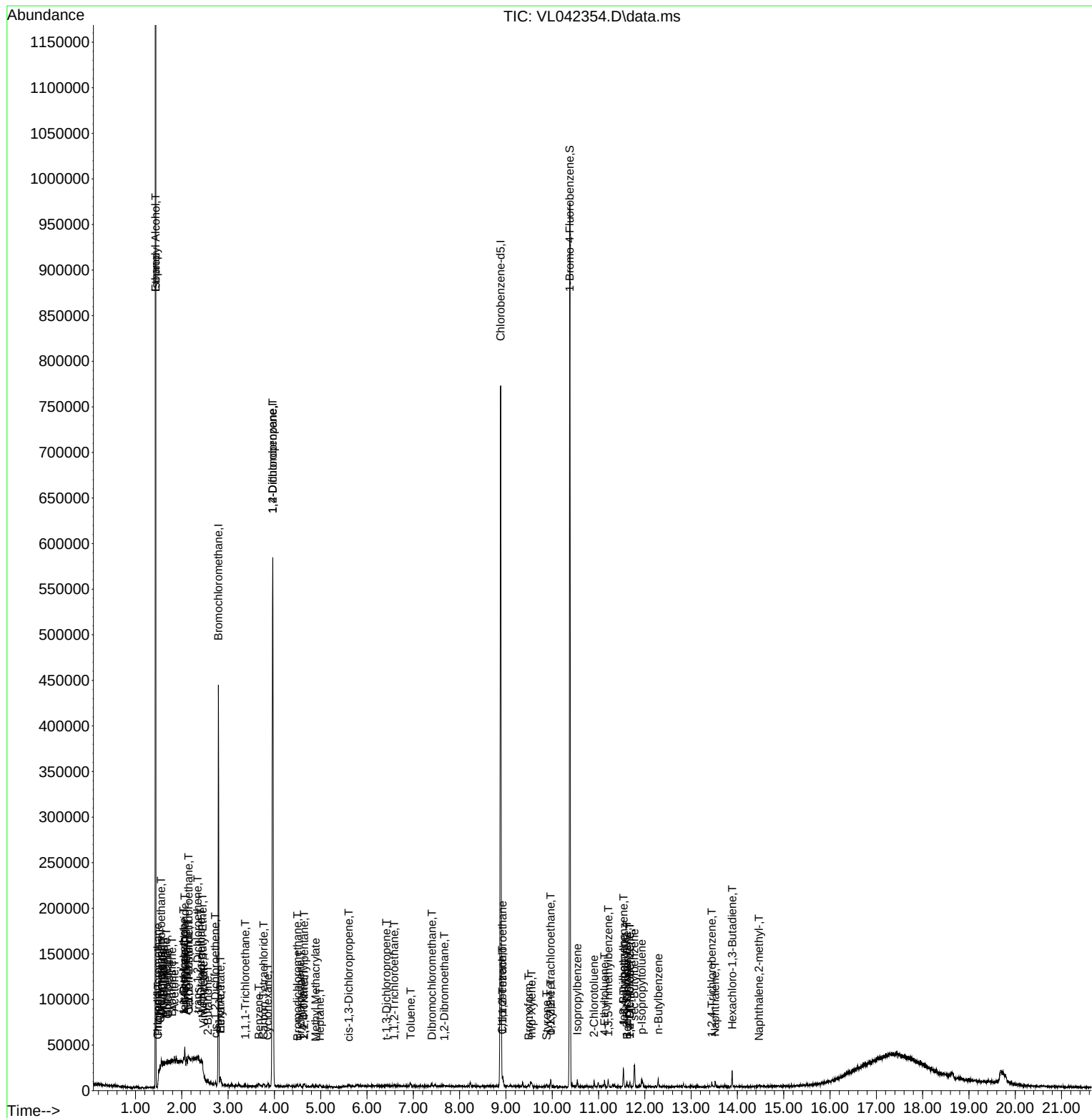
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
54) 1,2-Dibromoethane	7.668	107	422	0.021	ppbv	#	12
56) 1,1,1,2-Tetrachloroethane	8.927	131	589	0.031	ppbv	#	1
57) Chlorobenzene	8.920	112	567	0.017	ppbv	#	74
59) m/p-Xylene	9.555	91	1648	0.033	ppbv	#	32
60) o-Xylene	9.966	91	1938	0.039	ppbv		84
61) Styrene	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

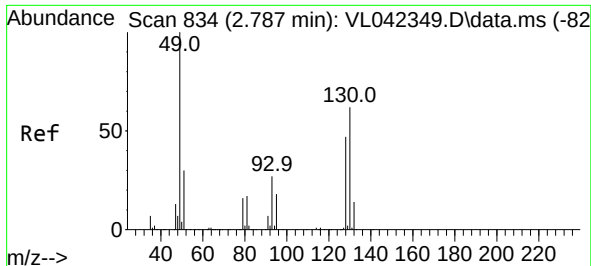
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

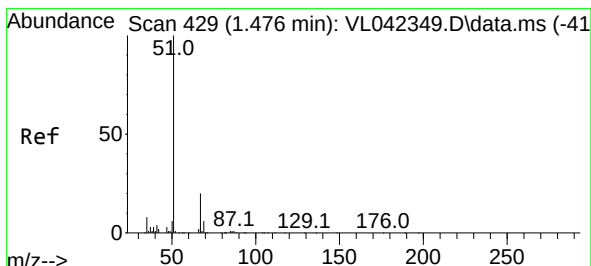
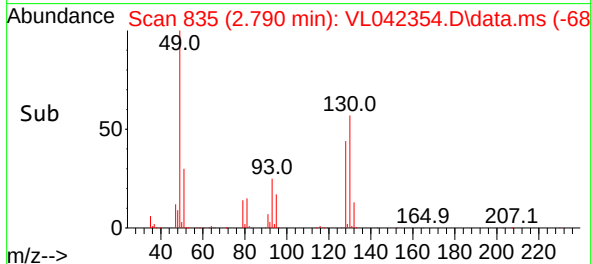
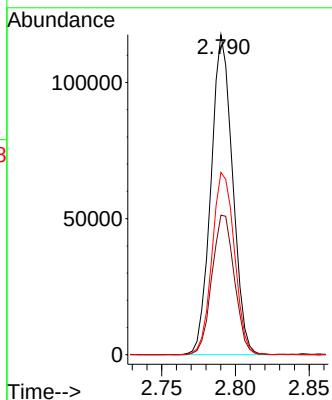
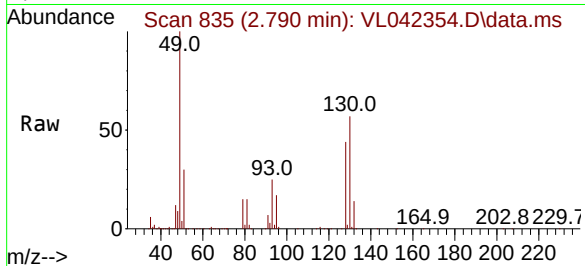




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

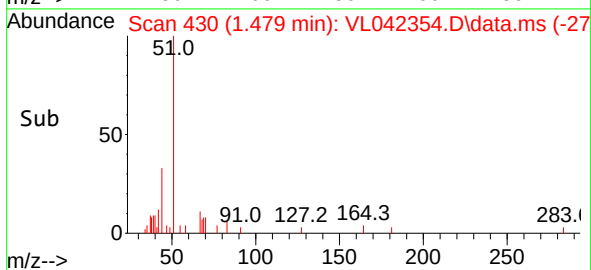
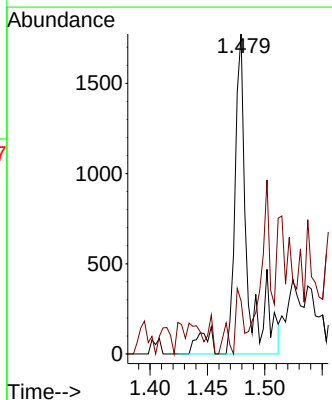
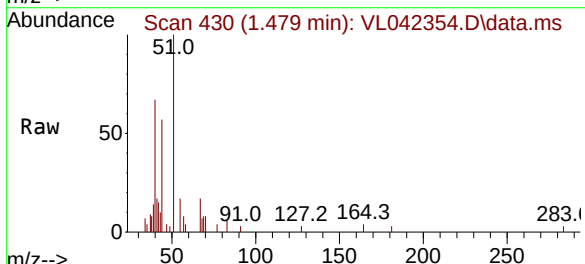
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

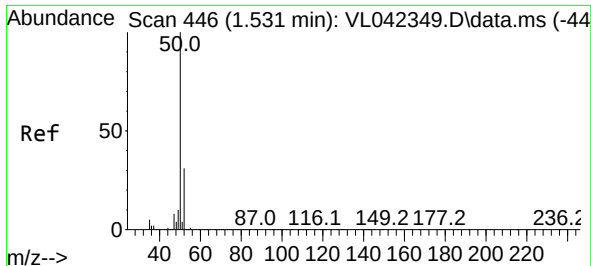
Tgt Ion: 49 Resp: 120042
Ion Ratio Lower Upper
49 100
128 45.3 22.8 68.4
130 59.0 29.3 88.0



#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#

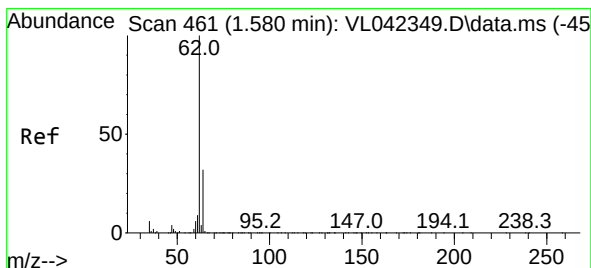
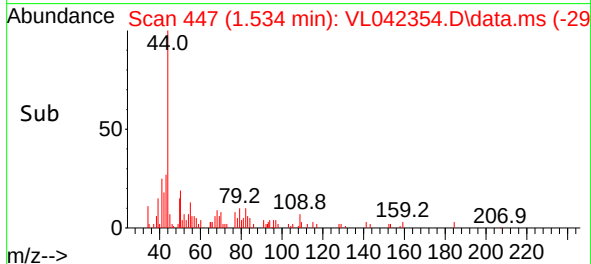
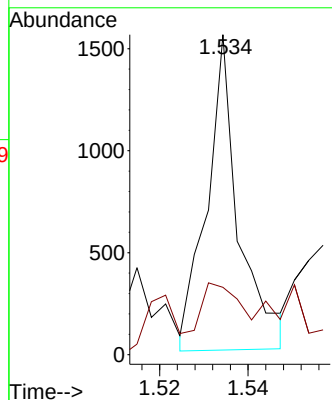
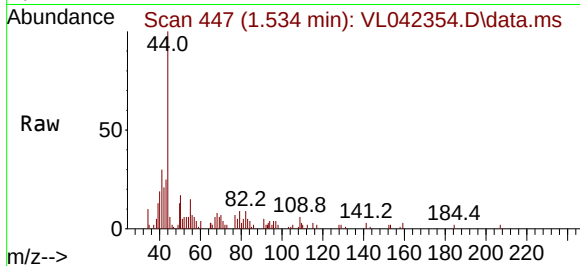




#4
Chloromethane
Concen: 0.092 ppbv
RT: 1.534 min Scan# 446
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

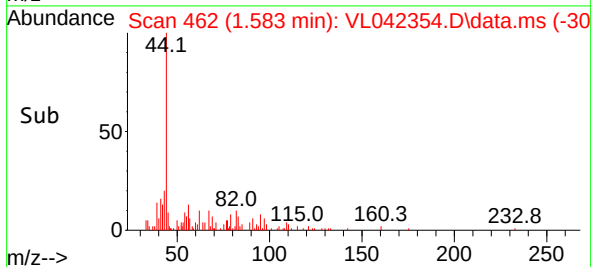
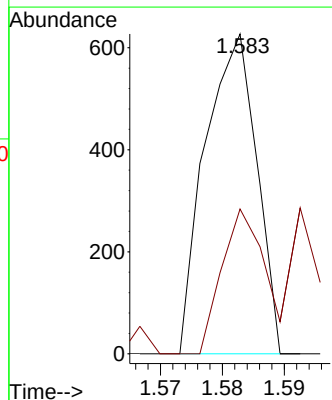
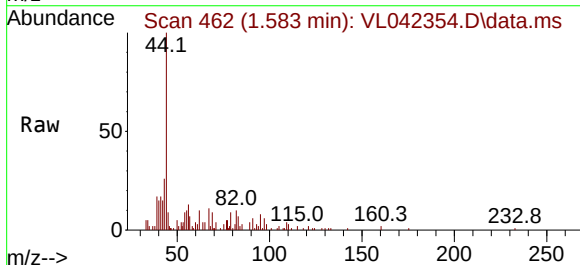
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

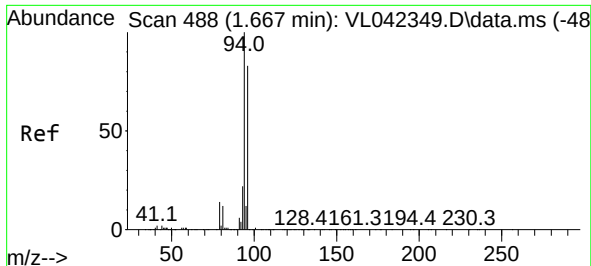
Tgt Ion: 50 Resp: 773
Ion Ratio Lower Upper
50 100
52 15.3 24.7 37.1#



#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#

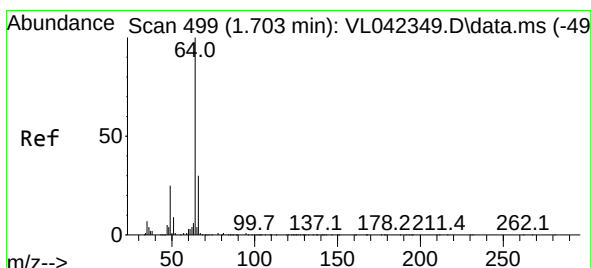
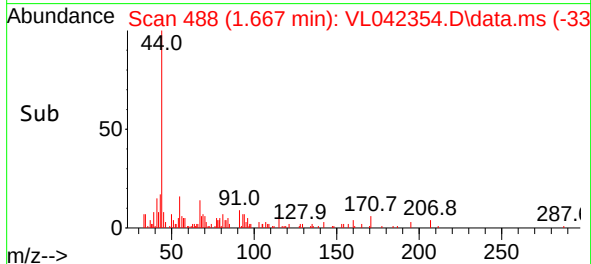
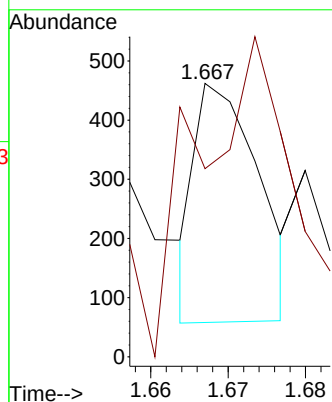
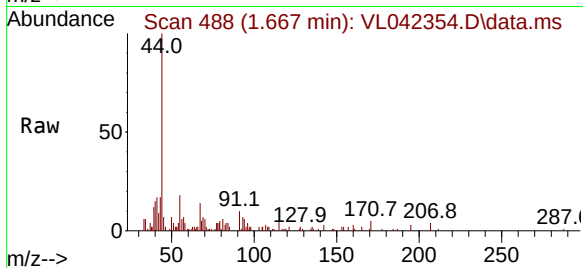




#6
Bromomethane
Concen: 0.059 ppbv
RT: 1.667 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

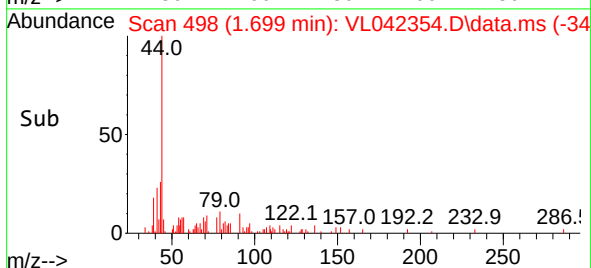
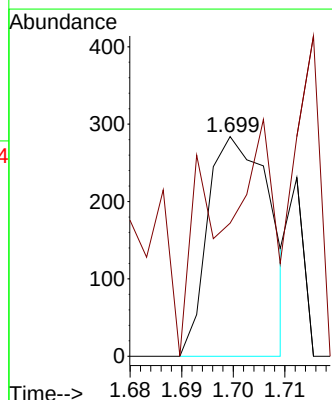
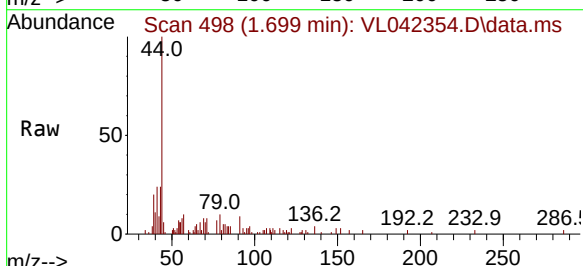
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.03

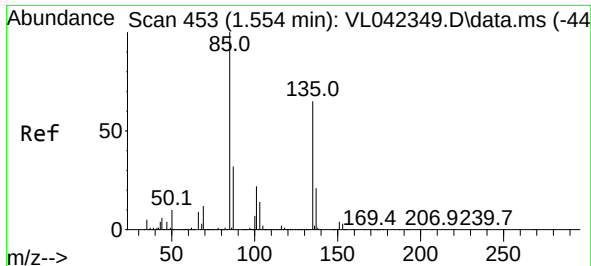
Tgt Ion: 94 Resp: 232
Ion Ratio Lower Upper
94 100
96 0.0 66.2 99.2#



#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#

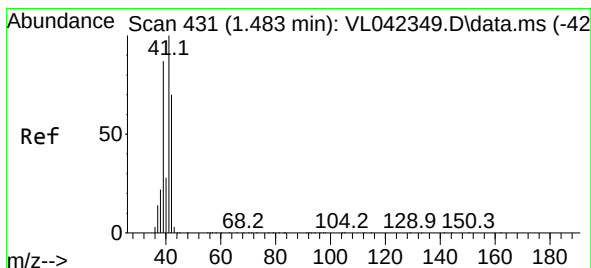
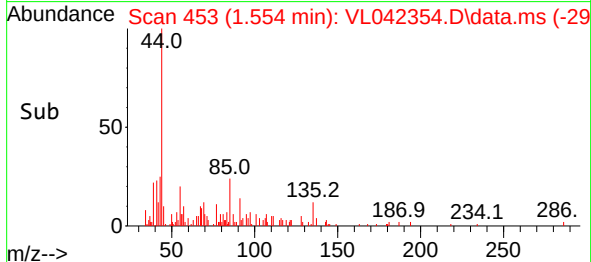
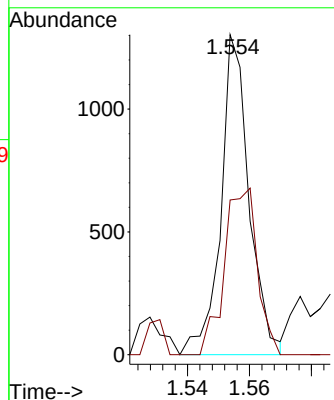
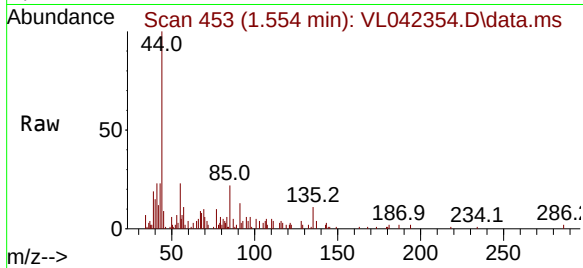




#8
Dichlorotetrafluoroethane
Concen: 0.045 ppbv
RT: 1.554 min Scan# 411
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

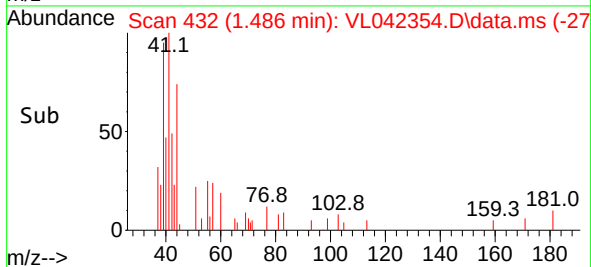
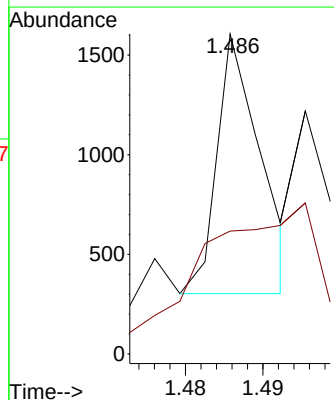
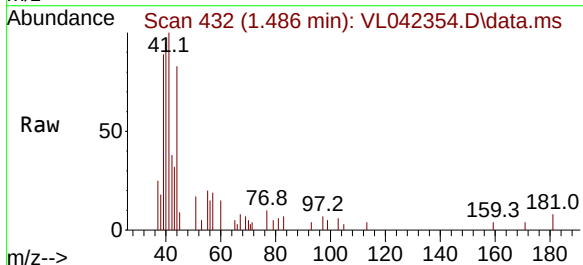
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

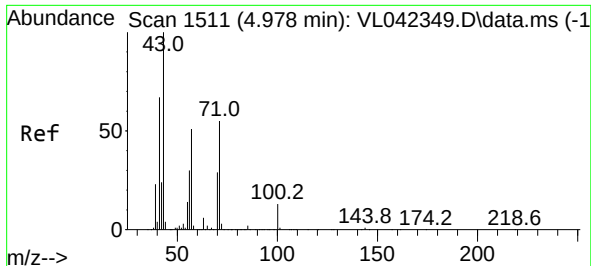
Tgt Ion: 85 Resp: 823
Ion Ratio Lower Upper
85 100
135 69.1 52.2 78.2



#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 :

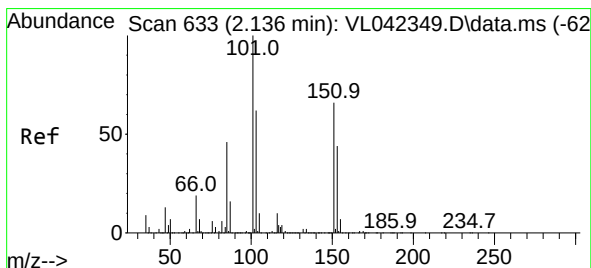
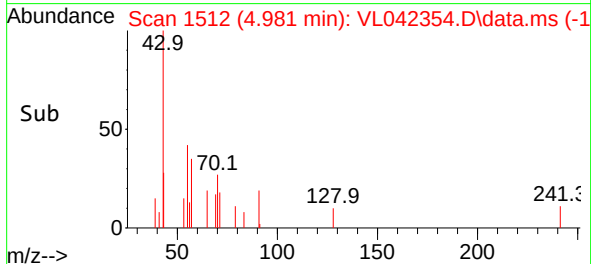
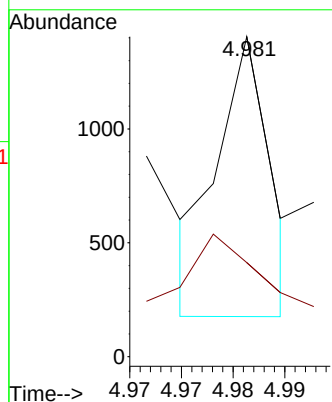
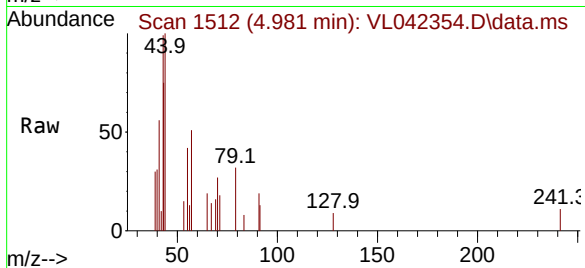
VSTDIC0.03

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

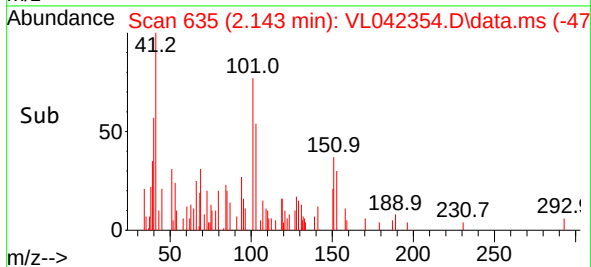
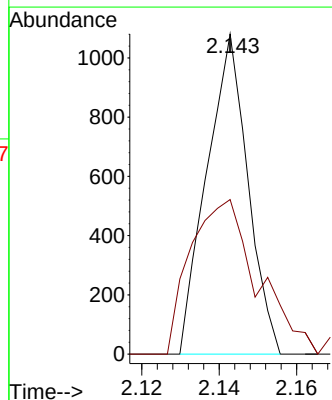
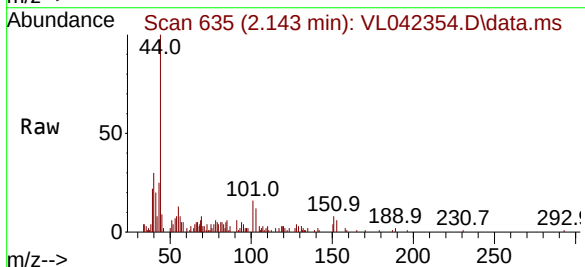
Acq: 17 Apr 2025 12:22

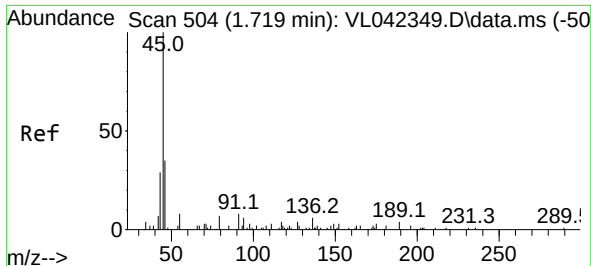
Tgt Ion: 101 Resp: 793

Ion Ratio Lower Upper

101 100

151 93.3 57.0 85.6#

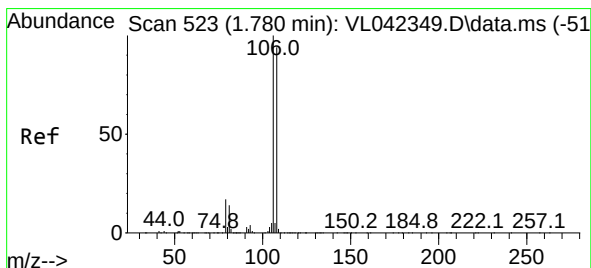
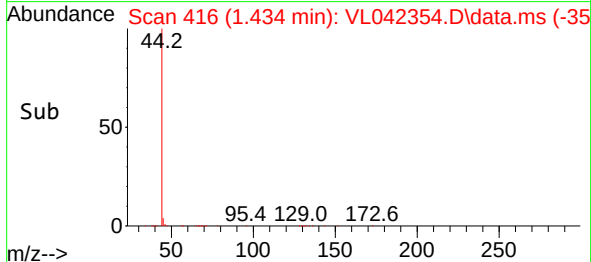
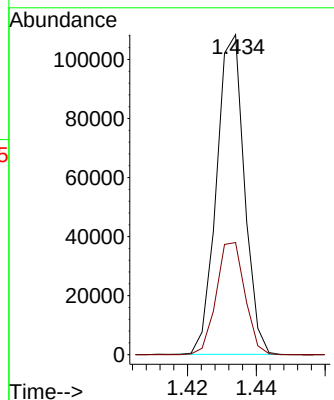
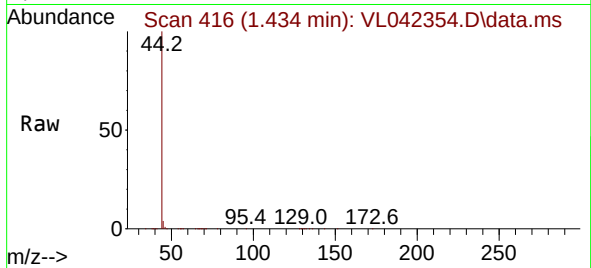




#13
 Ethanol
 Concen: 81.065 ppbv
 RT: 1.434 min Scan# 416
 Delta R.T. -0.285 min
 Lab File: VL042354.D
 Acq: 17 Apr 2025 12:22

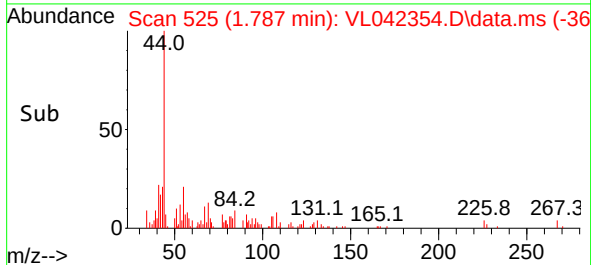
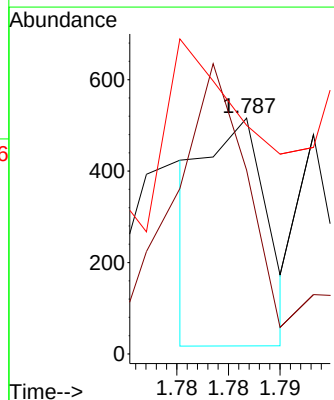
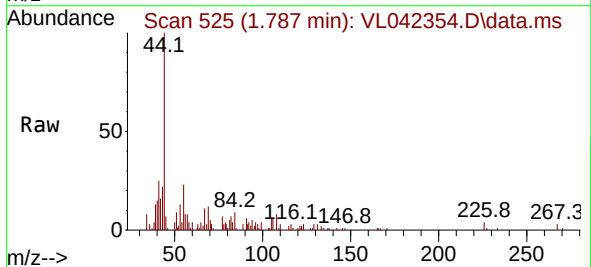
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

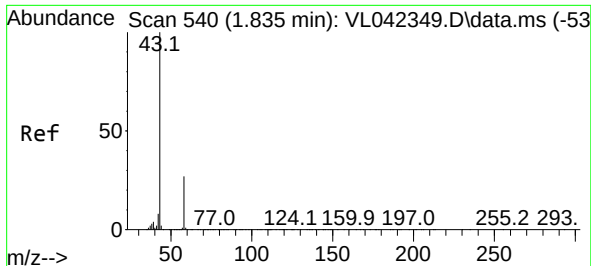
Tgt Ion: 45 Resp: 60931
 Ion Ratio Lower Upper
 45 100
 46 36.1 21.9 87.7



#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 :

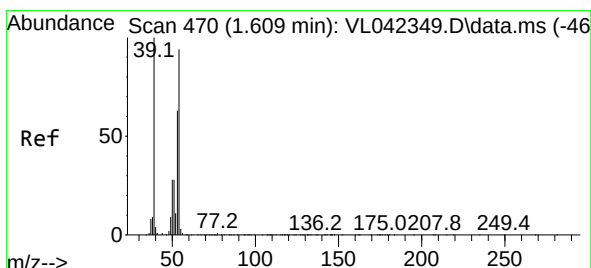
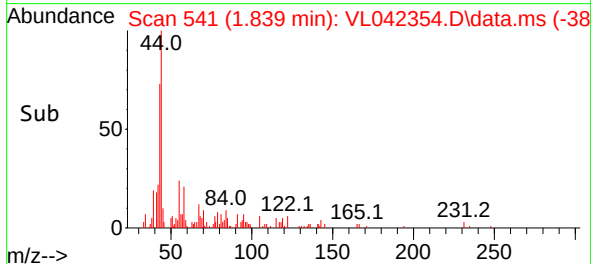
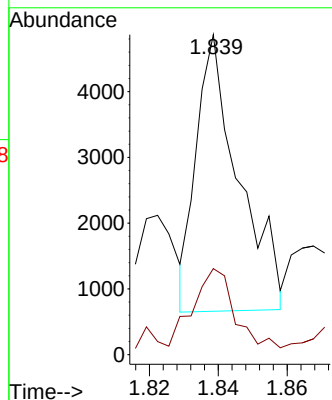
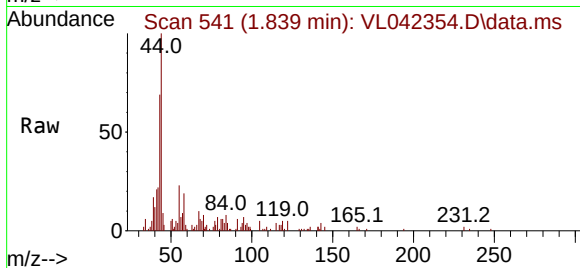
VSTDIC0.03

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

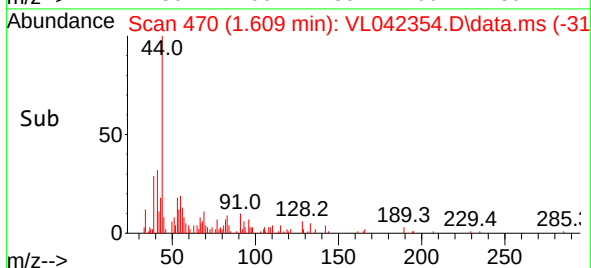
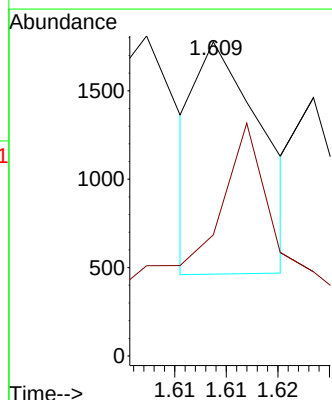
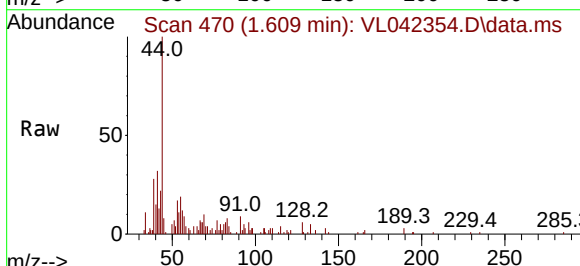
Acq: 17 Apr 2025 12:22

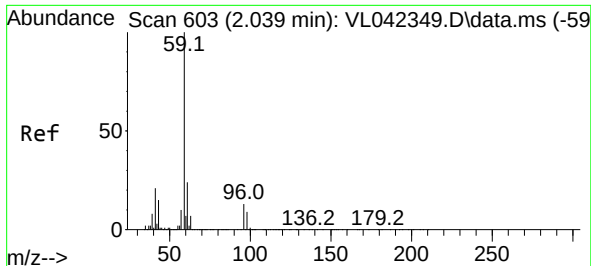
Tgt Ion: 39 Resp: 573

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_1

ClientSampleId :

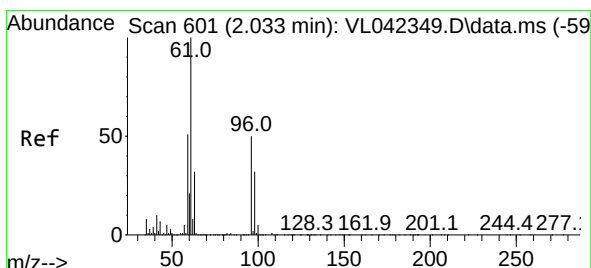
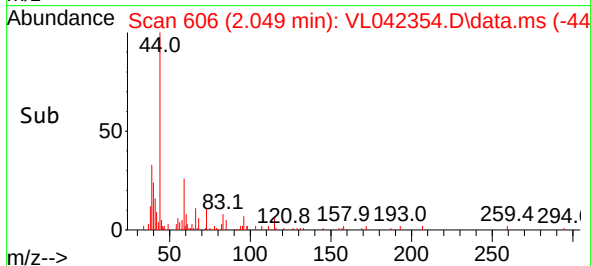
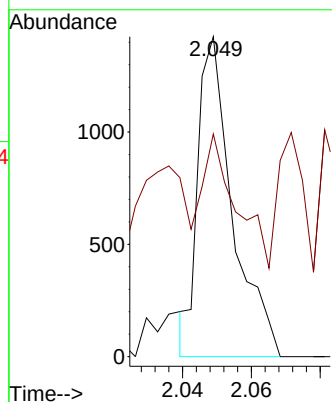
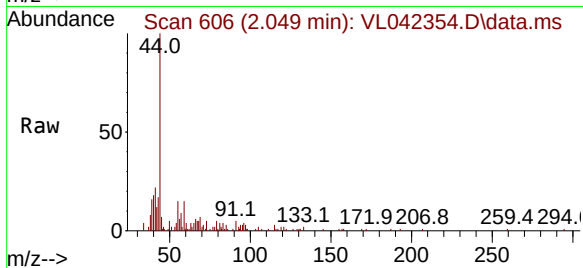
VSTDIC0.03

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

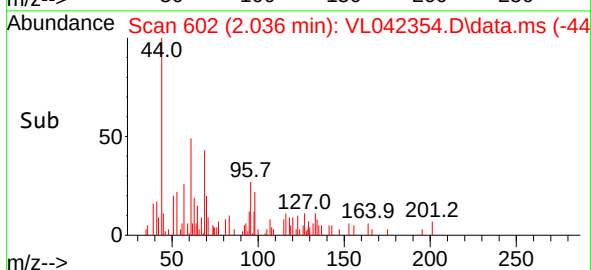
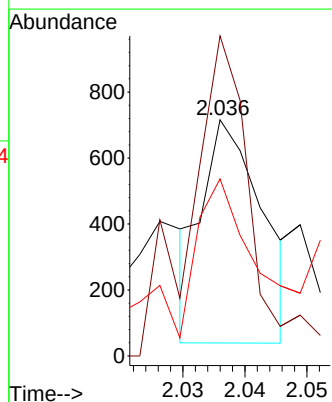
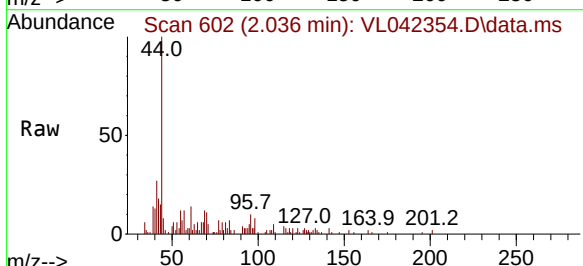
Tgt Ion: 96 Resp: 455

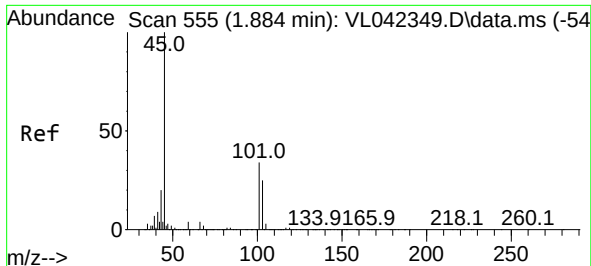
Ion Ratio Lower Upper

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 :

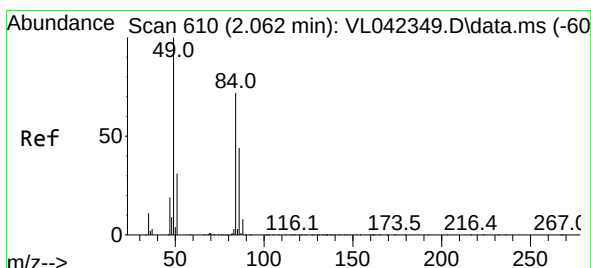
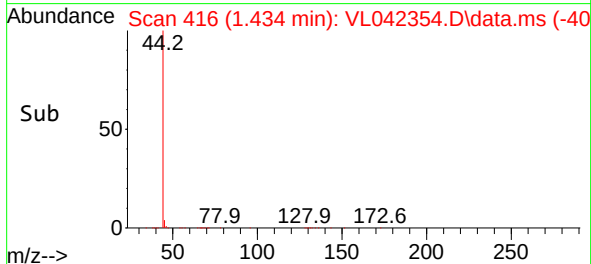
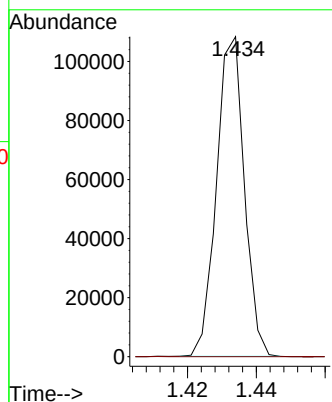
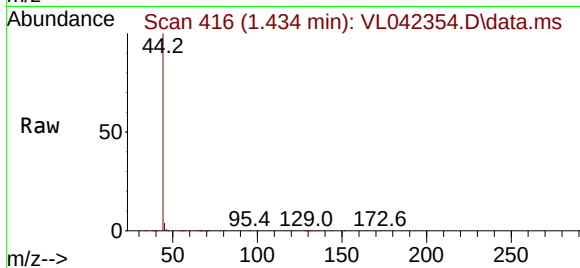
VSTDIC0.03

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

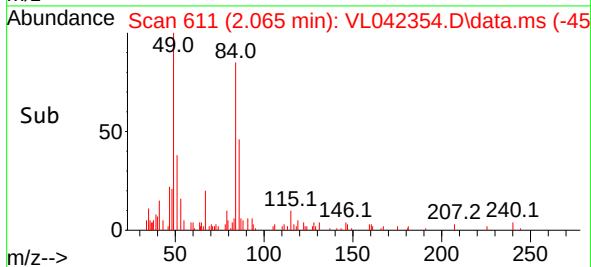
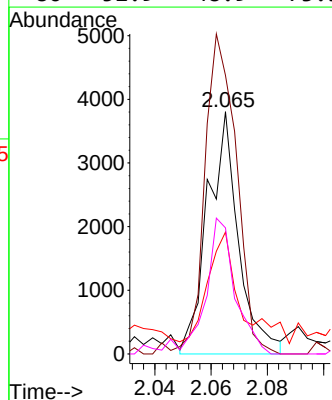
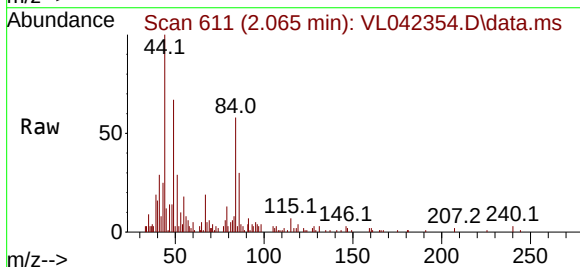
Ion Ratio Lower Upper

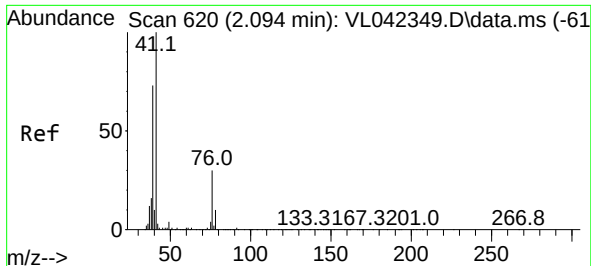
84 100

49 116.9 111.6 167.4

51 46.1 35.1 52.7

86 52.9 48.9 73.3

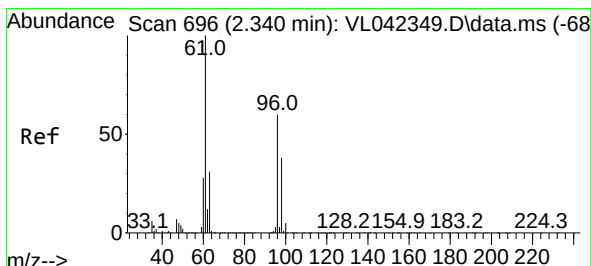
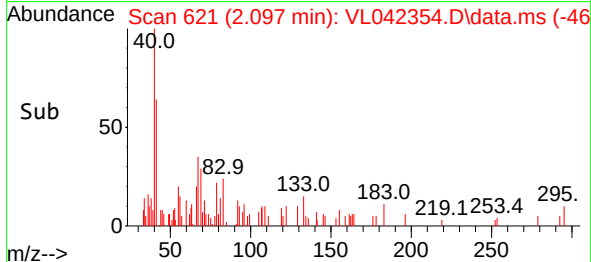
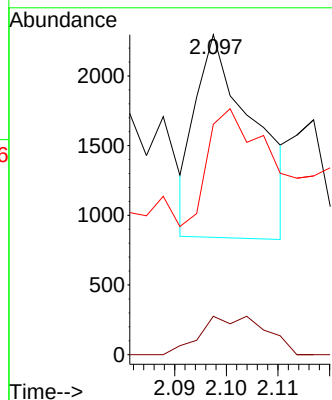
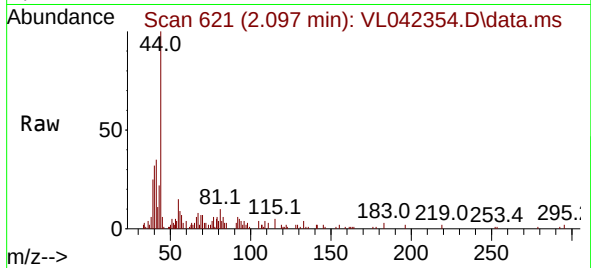




#21
 Allyl Chloride
 Concen: 0.083 ppbv
 RT: 2.097 min Scan# 61
 Delta R.T. 0.003 min
 Lab File: VL042354.D
 Acq: 17 Apr 2025 12:22

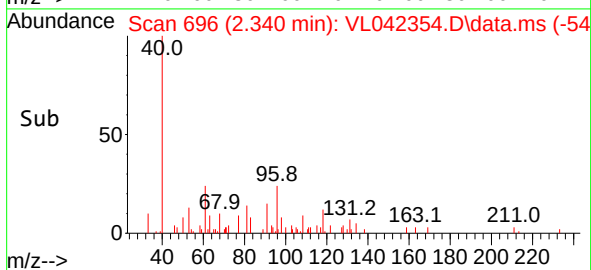
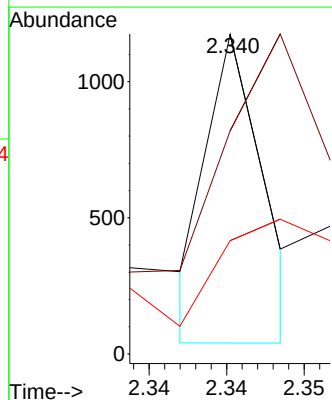
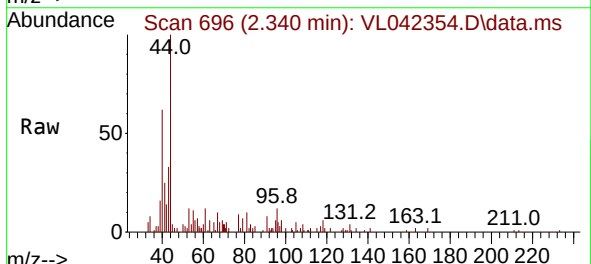
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.03

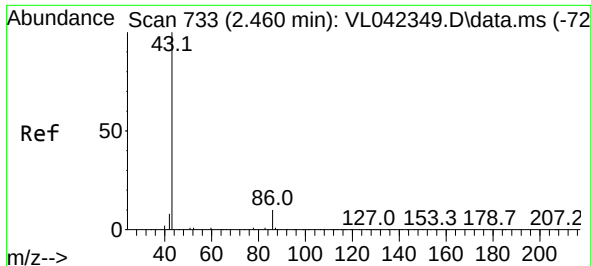
Tgt Ion: 41 Resp: 1132
 Ion Ratio Lower Upper
 41 100
 76 21.5 24.8 37.2#
 39 407.5 60.6 90.8#



#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#

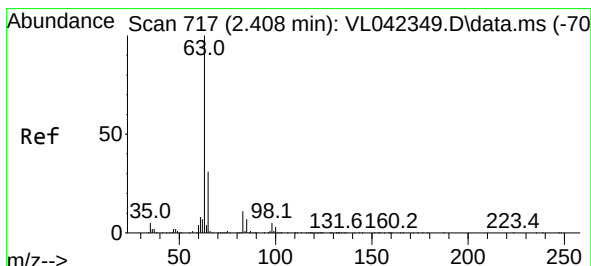
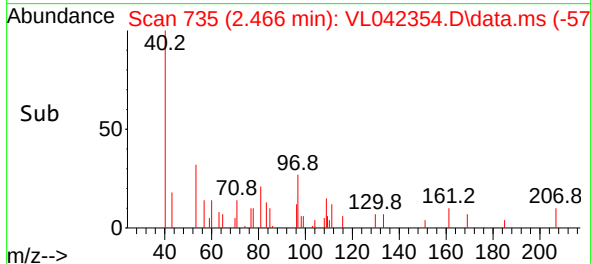
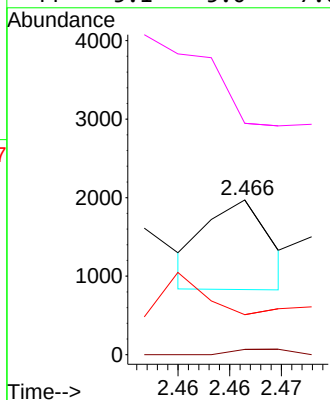
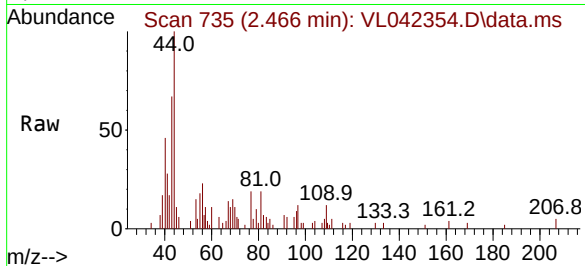




#23
 Vinyl Acetate
 Concen: 0.062 ppbv
 RT: 2.466 min Scan# 719
 Delta R.T. 0.006 min
 Lab File: VL042354.D
 Acq: 17 Apr 2025 12:22

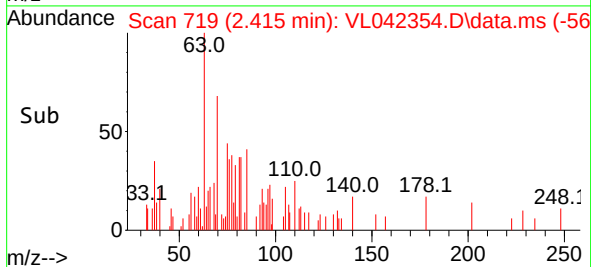
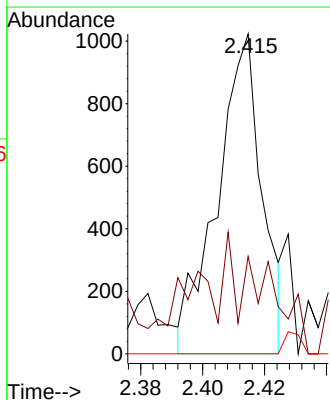
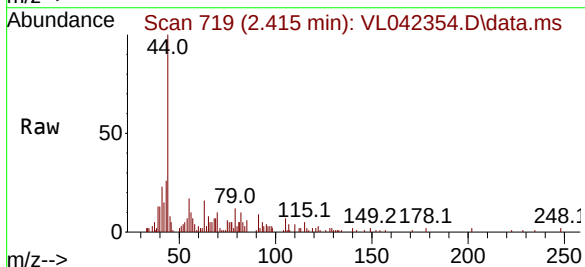
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.03

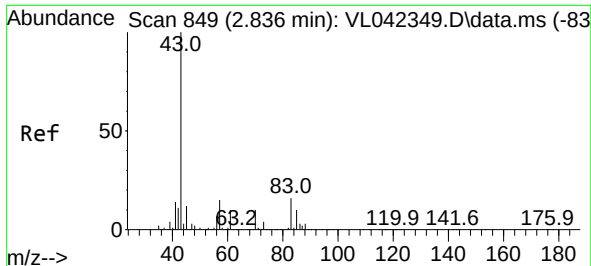
Tgt Ion: 43	Resp:	490
Ion Ratio	Lower	Upper
43	100	
86	10.1	6.5 9.7#
42	0.0	7.8 11.8#
44	5.1	5.0 7.6



#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#

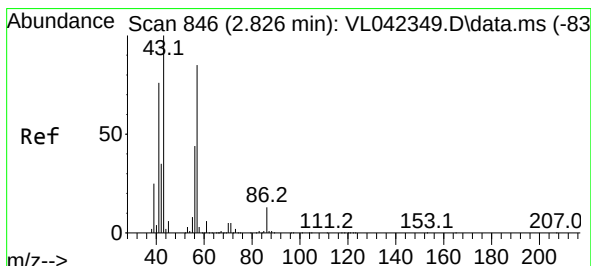
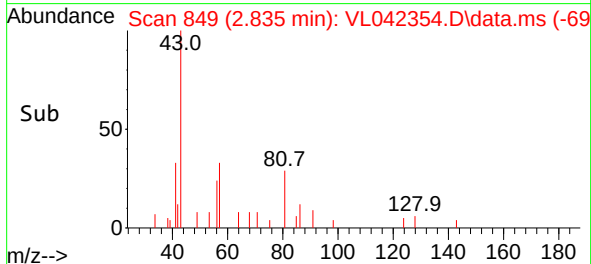
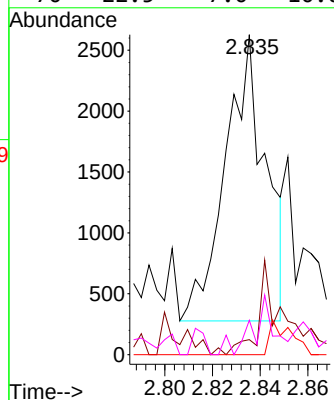
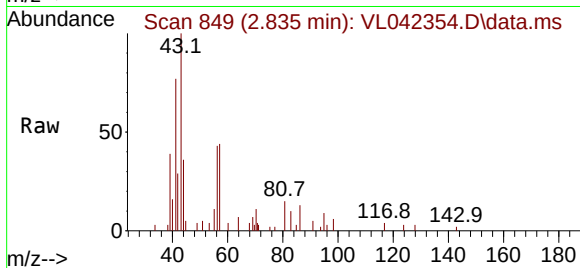




#25
Ethyl Acetate
Concen: 0.057 ppbv
RT: 2.835 min Scan# 849
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

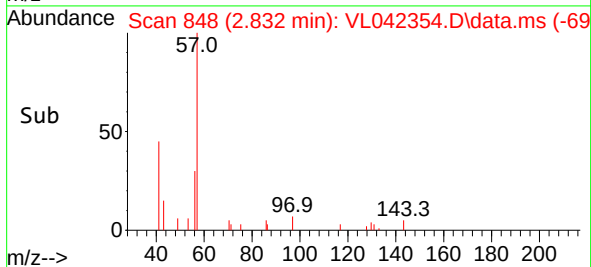
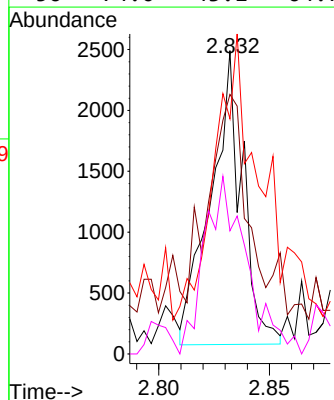
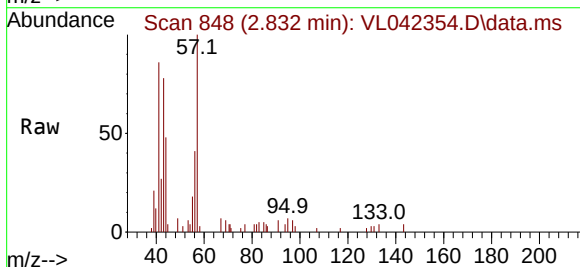
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

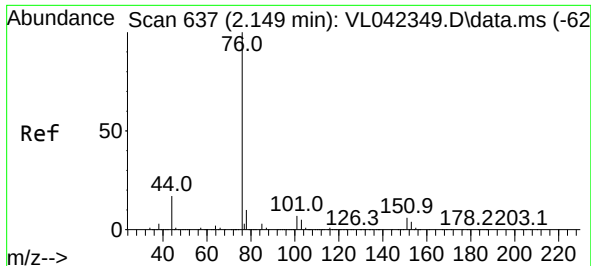
Tgt Ion: 43	Resp: 2744
Ion Ratio	Lower Upper
43 100	
45 21.1	8.3 12.5#
61 6.4	7.3 10.9#
70 22.5	7.0 10.6#



#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 :

VSTDICC0.03

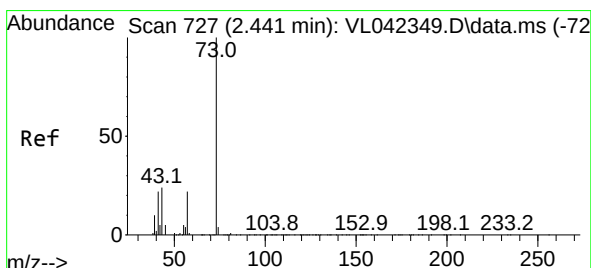
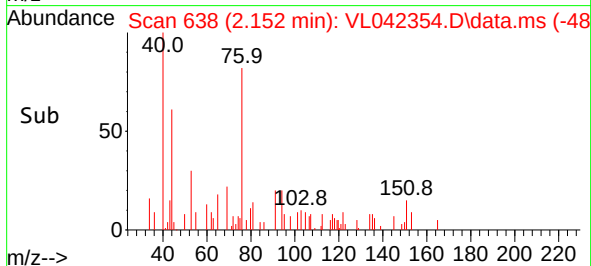
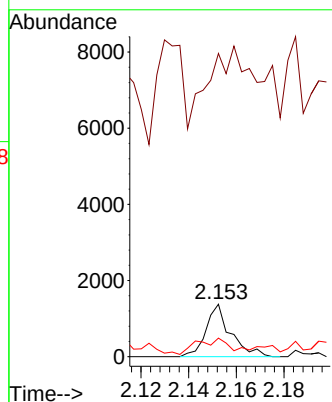
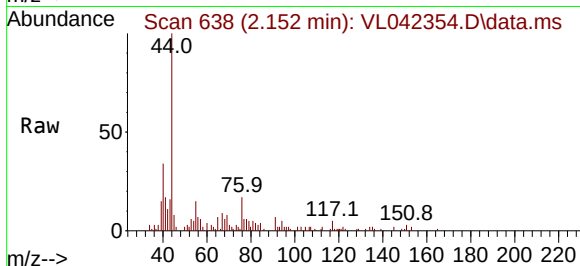
Tgt Ion: 76 Resp: 984

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

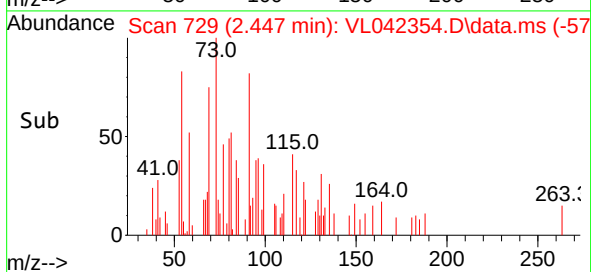
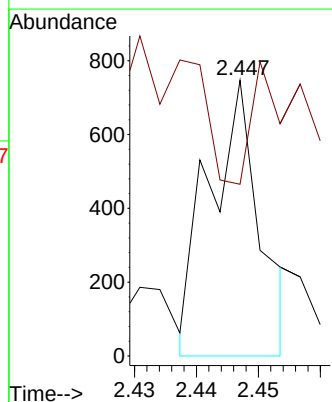
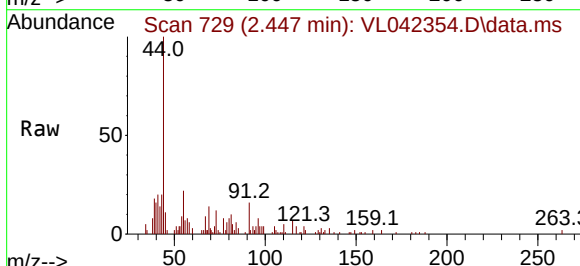
Acq: 17 Apr 2025 12:22

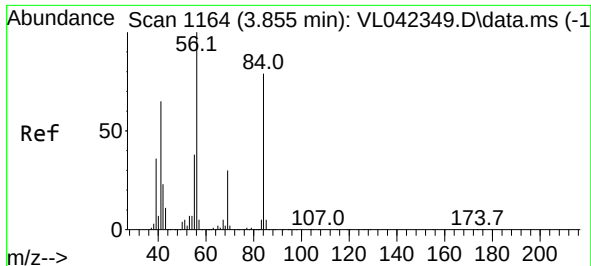
Tgt Ion: 73 Resp: 426

Ion Ratio Lower Upper

73 100

57 0.0 21.3 31.9#

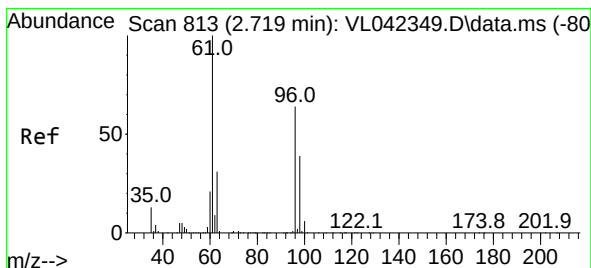
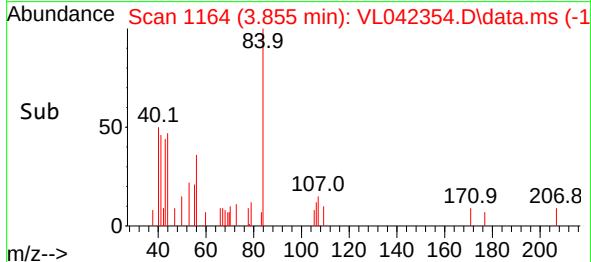
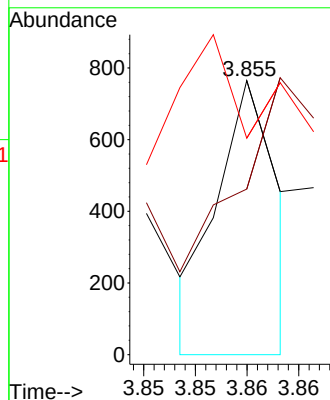
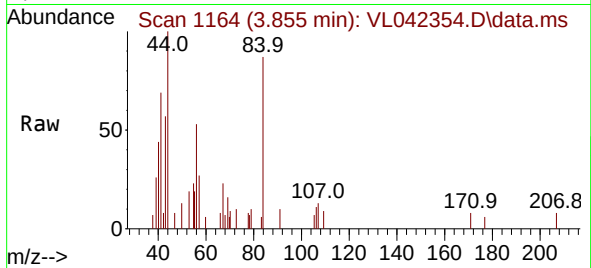




#30
Cyclohexane
Concen: 0.020 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

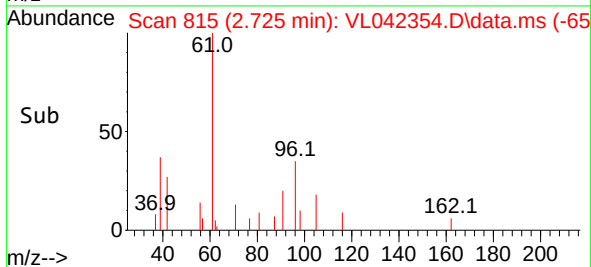
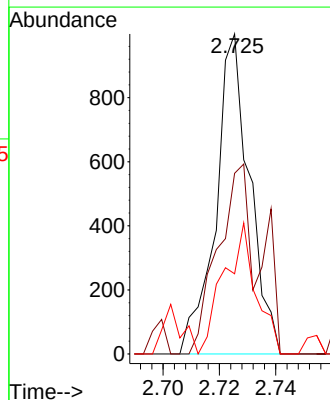
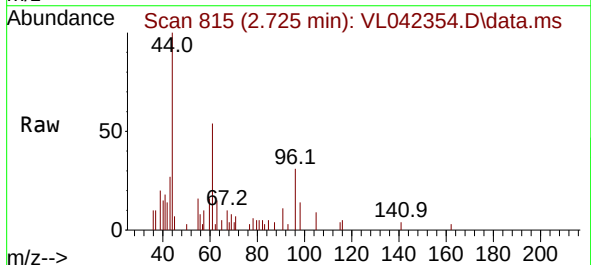
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

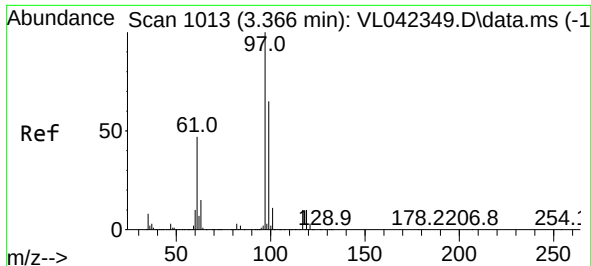
Tgt Ion: 84 Resp: 311
Ion Ratio Lower Upper
84 100
56 0.0 101.0 151.4#
41 0.0 67.4 101.0#



#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#

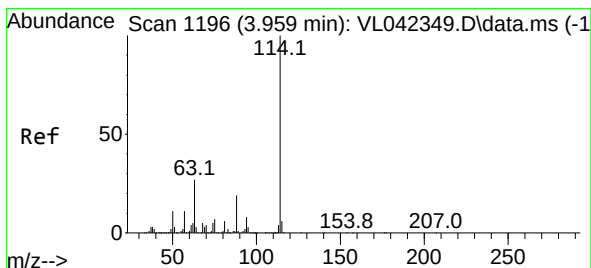
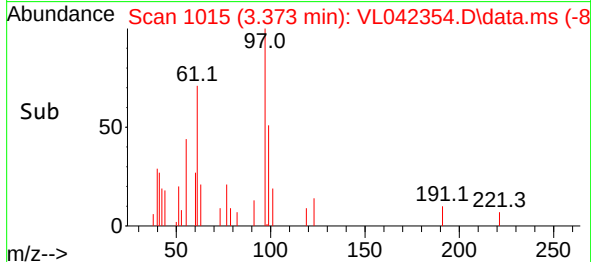
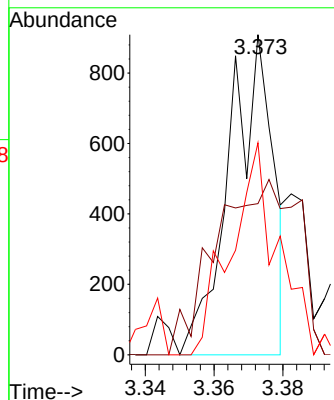
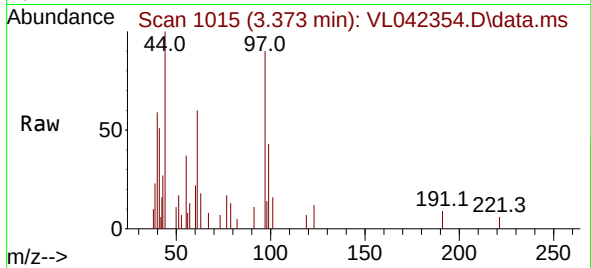




#32
 1,1,1-Trichloroethane
 Concen: 0.027 ppbv
 RT: 3.373 min Scan# 1109
 Delta R.T. 0.006 min
 Lab File: VL042354.D
 Acq: 17 Apr 2025 12:22

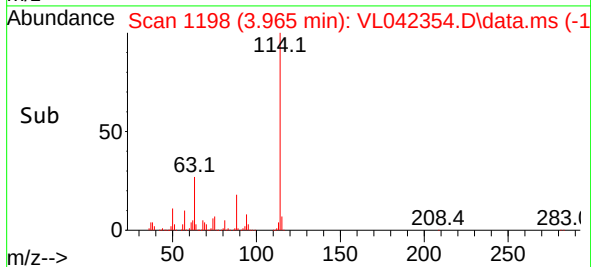
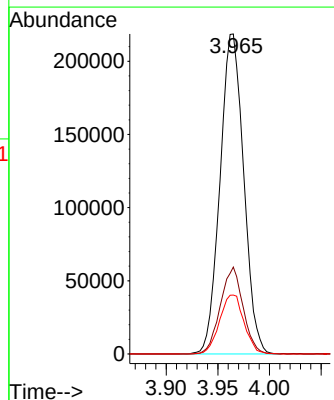
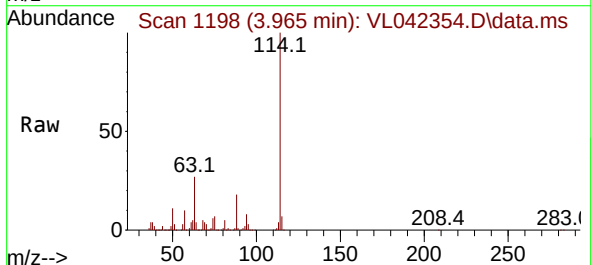
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.03

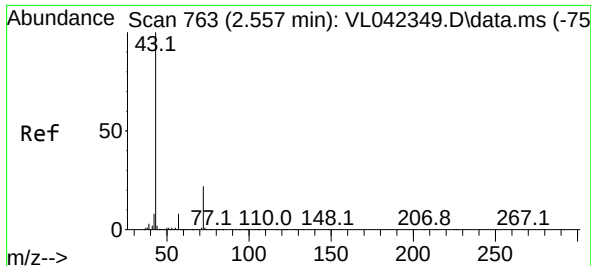
Tgt Ion: 97 Resp: 809
 Ion Ratio Lower Upper
 97 100
 99 103.0 51.0 76.4#
 61 78.7 38.8 58.2#



#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

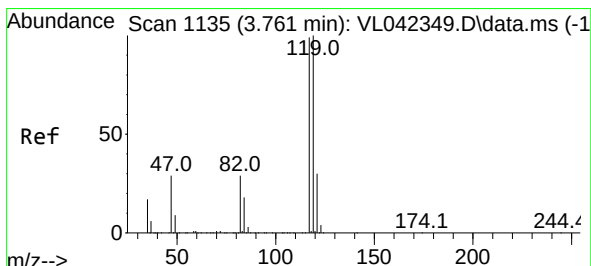
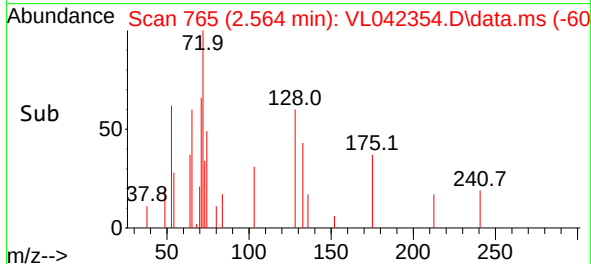
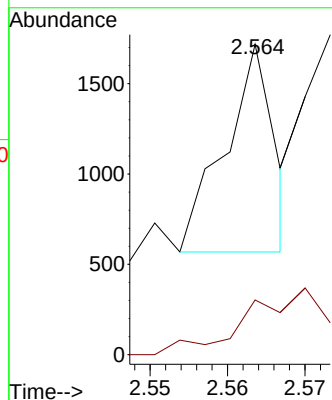
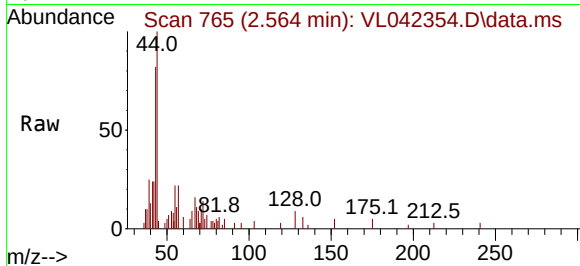




#34
2-Butanone
Concen: 0.018 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

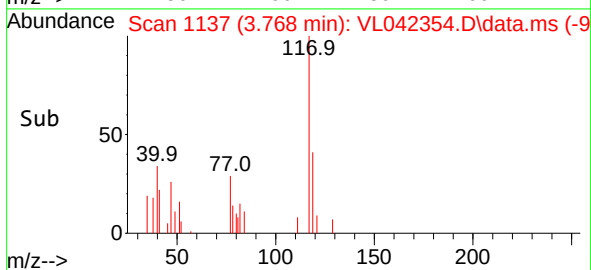
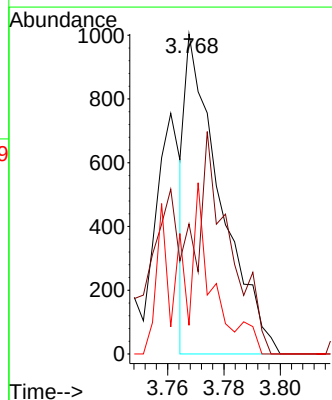
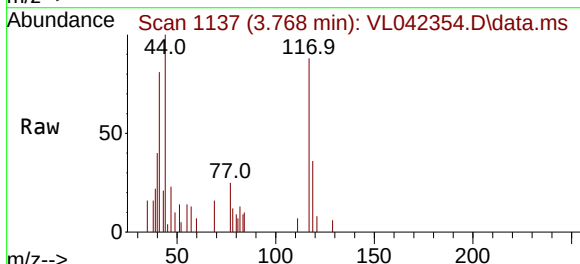
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC0.03

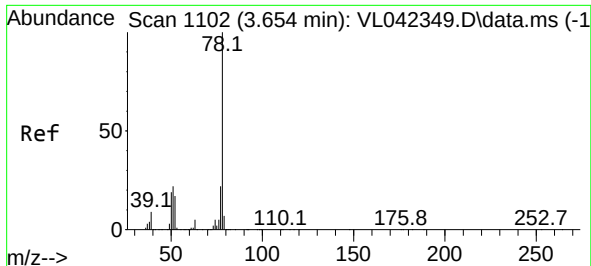
Tgt Ion: 43 Resp: 510
Ion Ratio Lower Upper
43 100
72 0.0 18.2 27.2#



#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

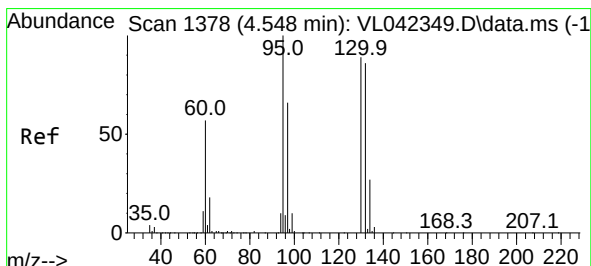
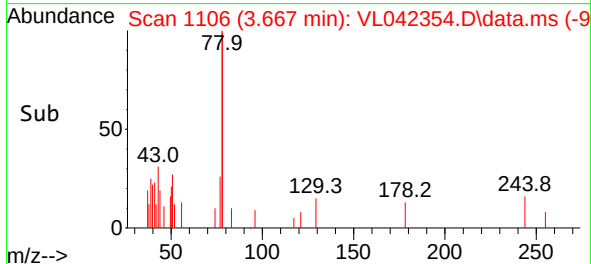
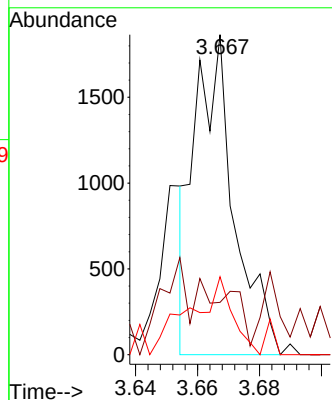
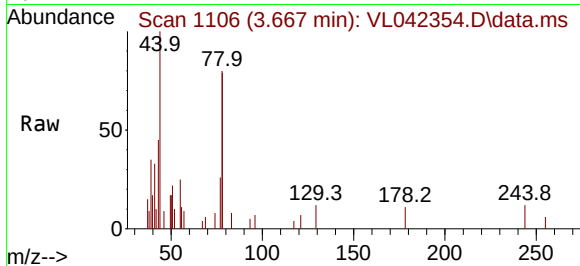
Instrument :

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

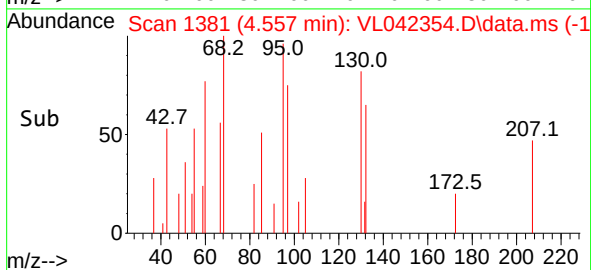
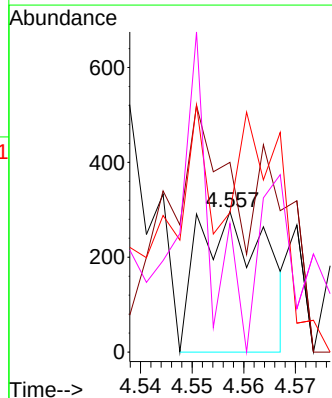
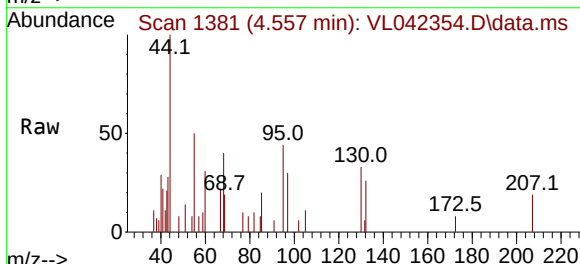
RT: 4.557 min Scan# 1381

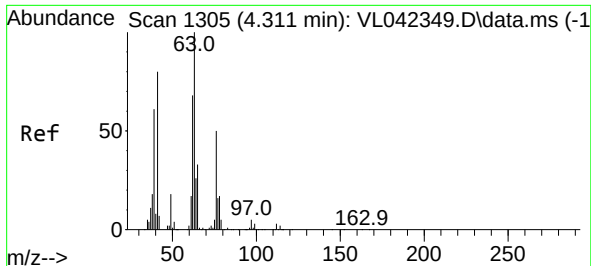
Delta R.T. 0.010 min

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

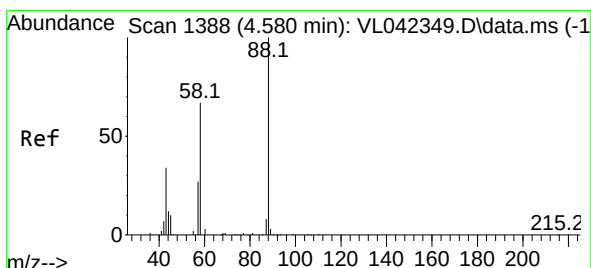
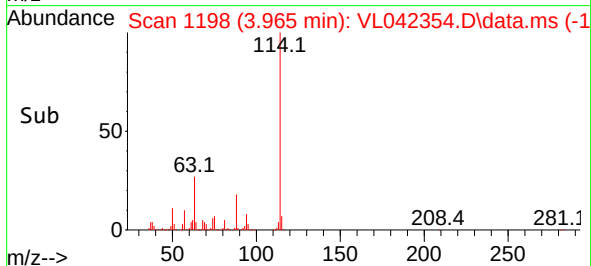
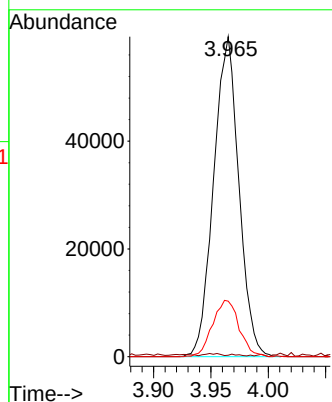
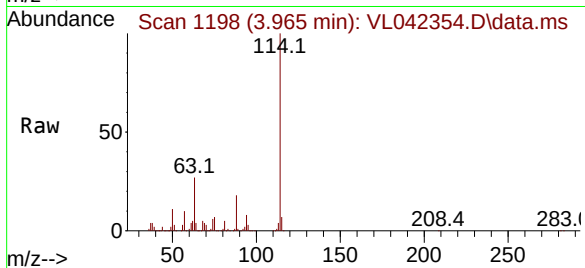
Tgt Ion: 63 Resp: 90827

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

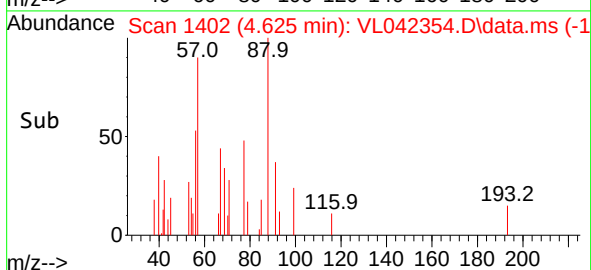
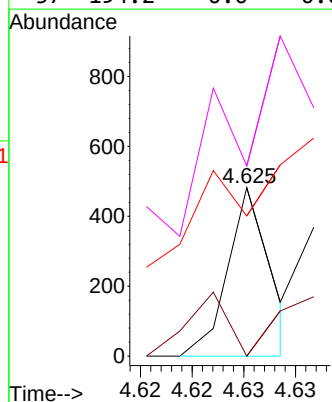
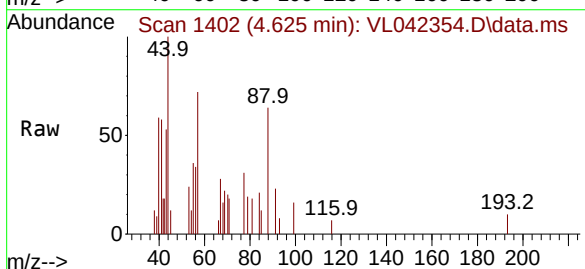
Ion Ratio Lower Upper

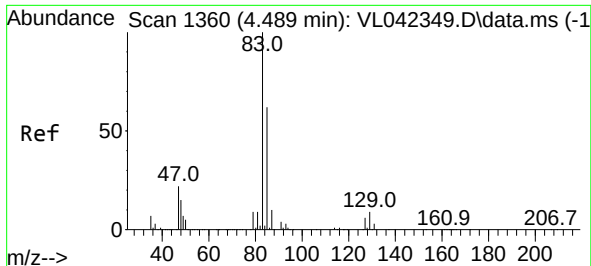
88 100

58 0.0 61.4 92.0#

43 251.8 23.2 34.8#

57 194.2 0.0 0.0#

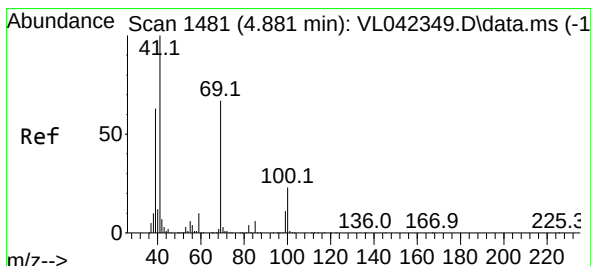
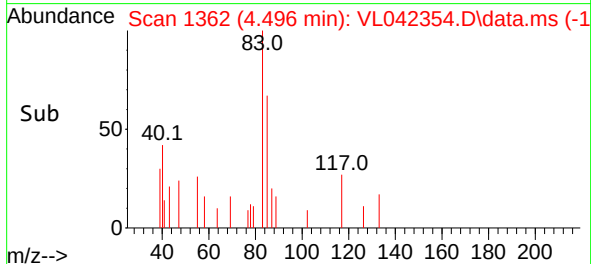
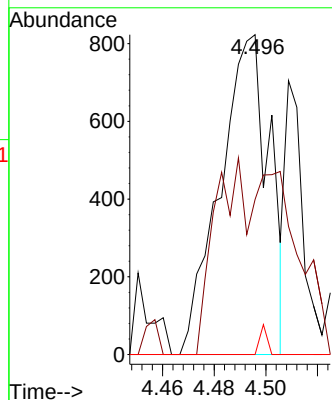
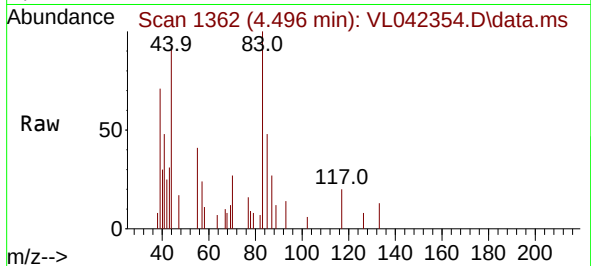




#42
Bromodichloromethane
Concen: 0.035 ppbv
RT: 4.496 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

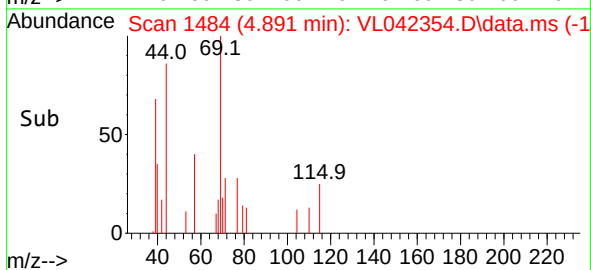
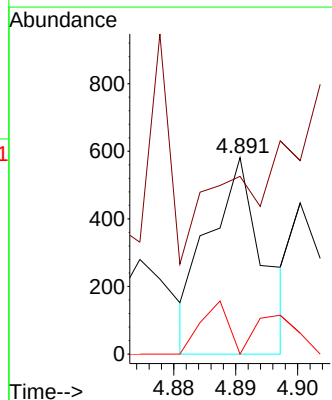
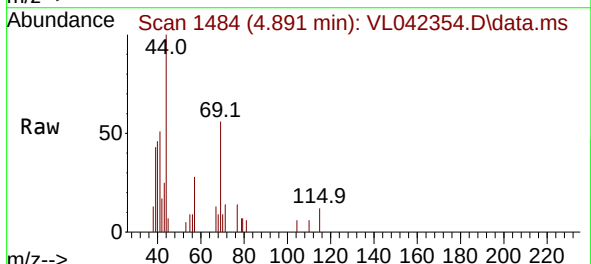
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

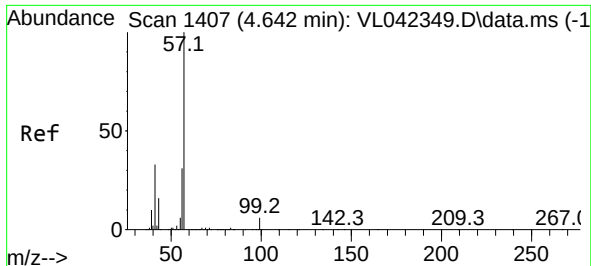
Tgt Ion: 83 Resp: 1093
Ion Ratio Lower Upper
83 100
85 48.5 49.7 74.5#
127 0.0 5.1 7.7#



#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

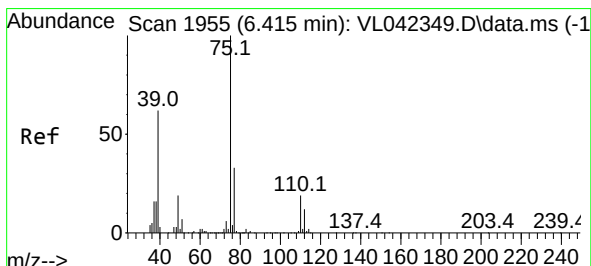
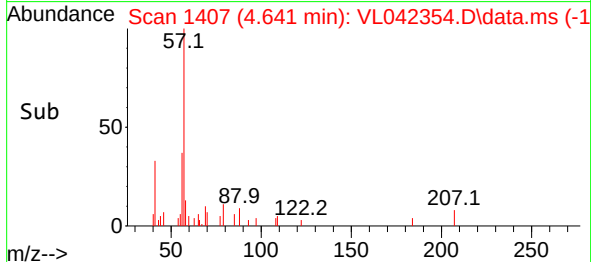
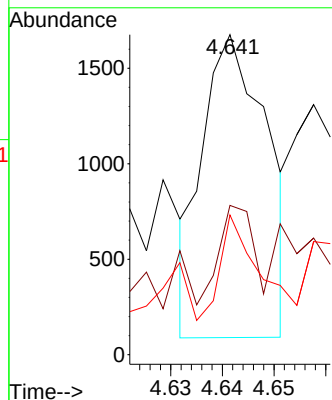
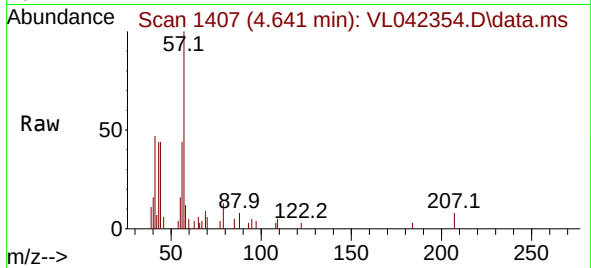




#44
2,2,4-Trimethylpentane
Concen: 0.021 ppbv
RT: 4.641 min Scan# 1407
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

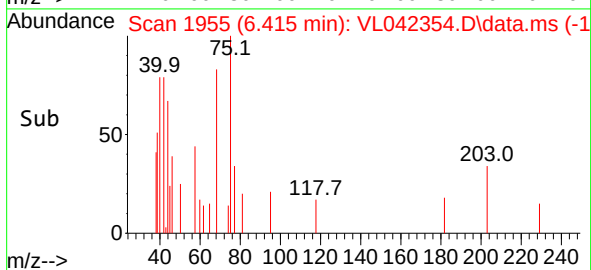
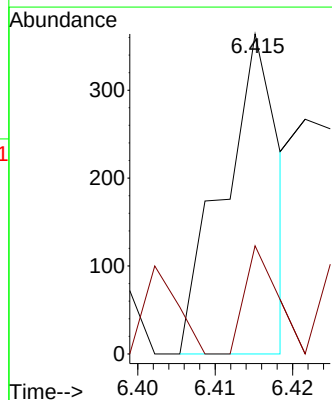
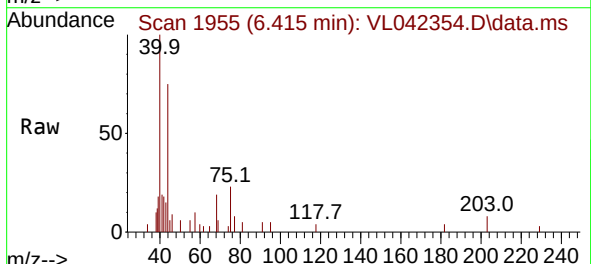
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.03

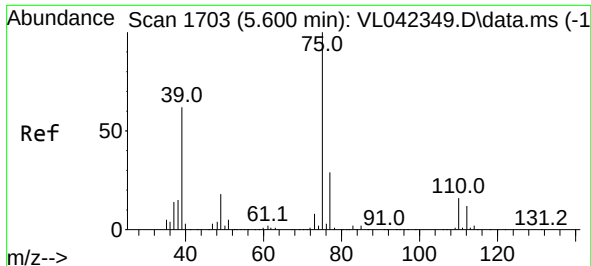
Tgt Ion: 57 Resp: 1377
Ion Ratio Lower Upper
57 100
41 0.0 27.2 40.8#
56 139.0 25.7 38.5#



#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

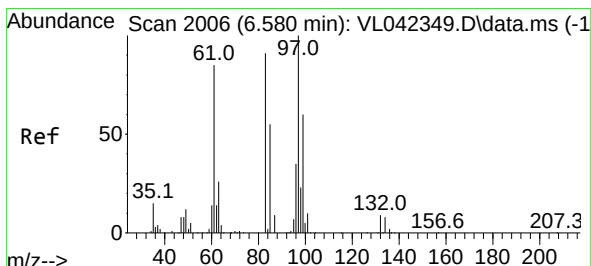
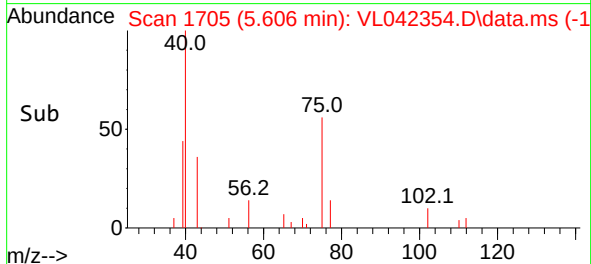
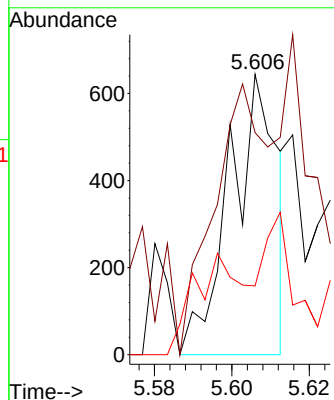
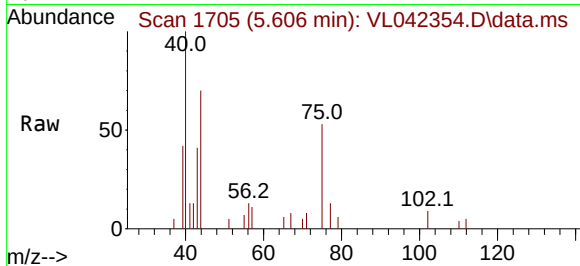




#46
 cis-1,3-Dichloropropene
 Concen: 0.026 ppbv
 RT: 5.606 min Scan# 1
 Delta R.T. 0.006 min
 Lab File: VL042354.D
 Acq: 17 Apr 2025 12:22

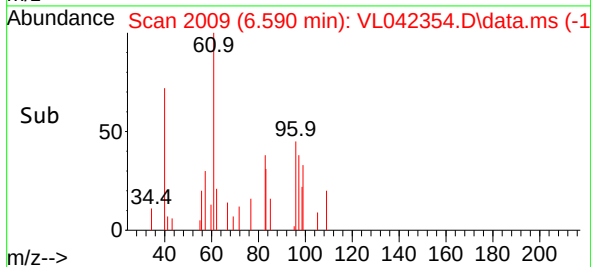
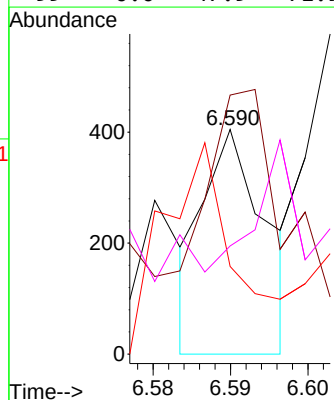
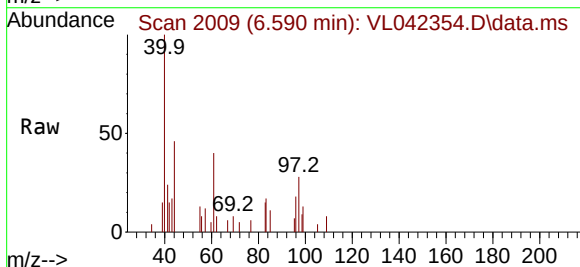
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

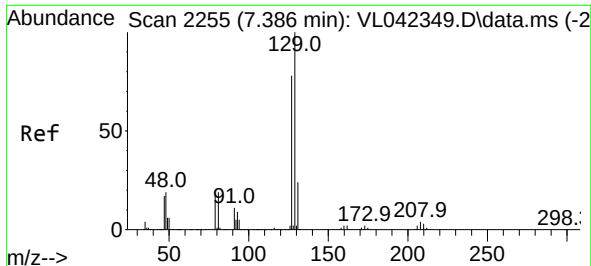
Tgt Ion: 75 Resp: 546
 Ion Ratio Lower Upper
 75 100
 39 1.7 50.0 75.0#
 77 13.7 23.0 34.6#



#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#

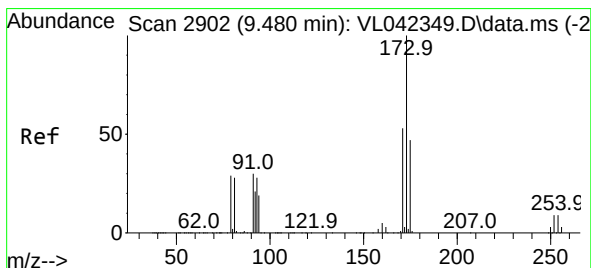
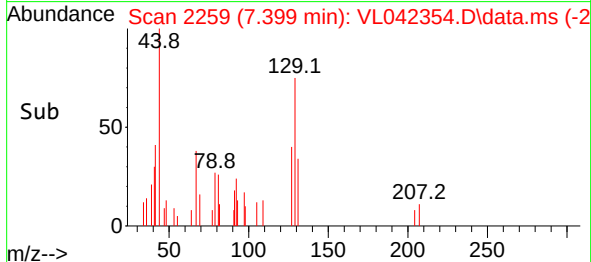
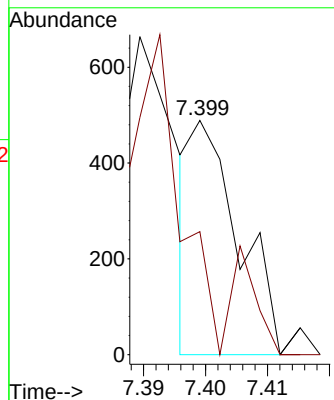
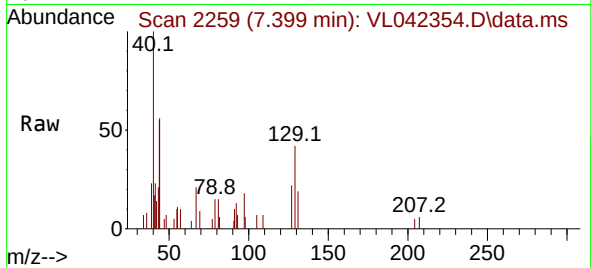




#48
 Dibromochloromethane
 Concen: 0.010 ppbv
 RT: 7.399 min Scan# 21
 Delta R.T. 0.013 min
 Lab File: VL042354.D
 Acq: 17 Apr 2025 12:22

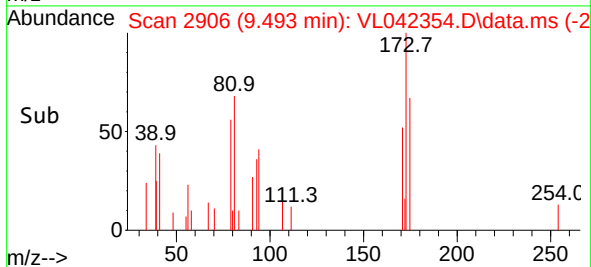
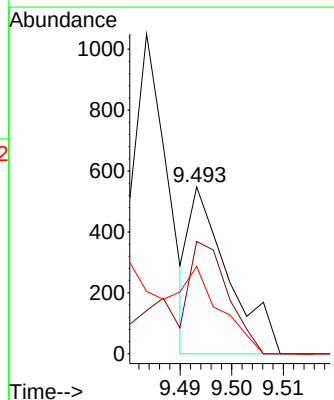
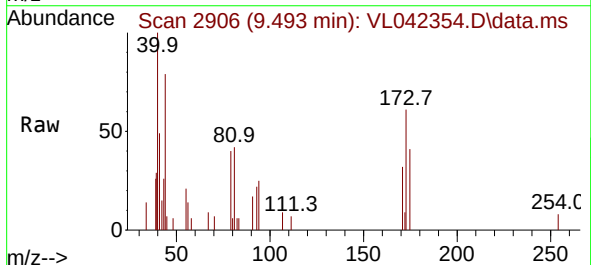
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

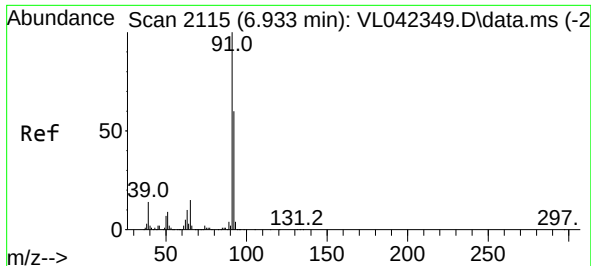
Tgt Ion:129 Resp: 258
 Ion Ratio Lower Upper
 129 100
 127 0.0 39.1 117.3#



#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#

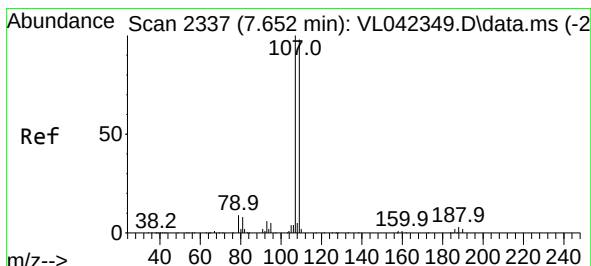
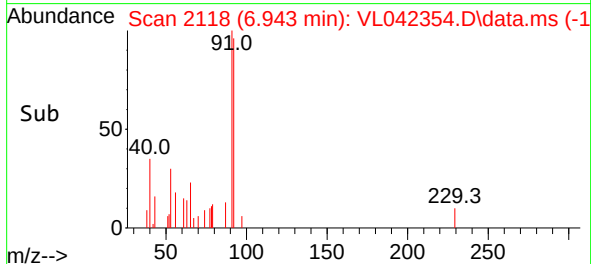
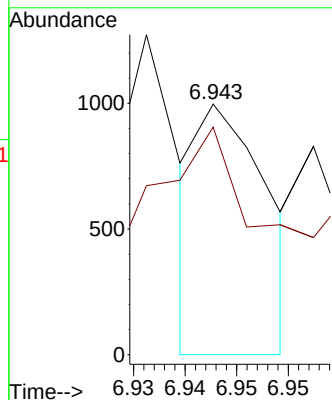
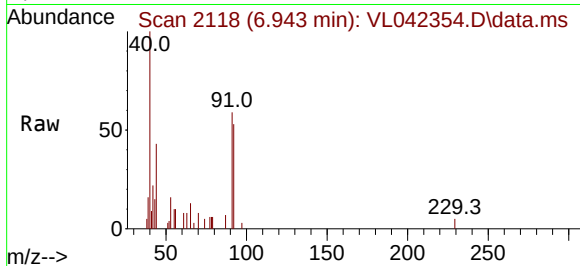




#53
Toluene
Concen: 0.010 ppbv
RT: 6.943 min Scan# 2115
Delta R.T. 0.010 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

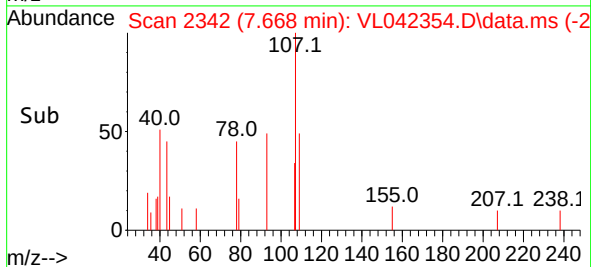
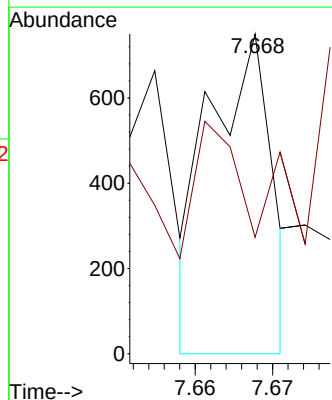
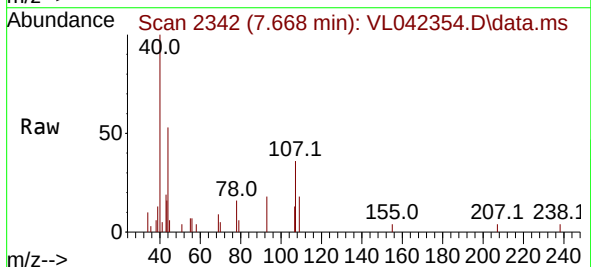
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

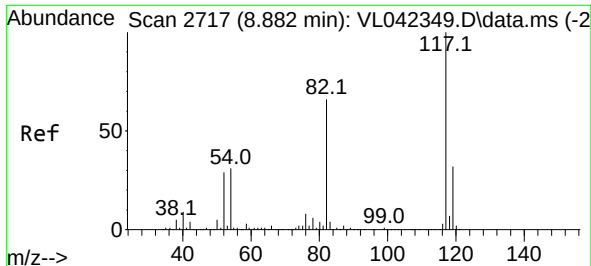
Tgt Ion: 91 Resp: 464
Ion Ratio Lower Upper
91 100
92 289.2 48.2 72.4#



#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#

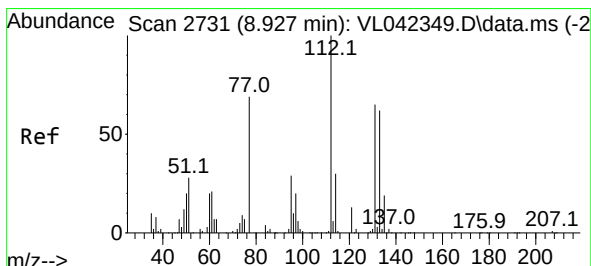
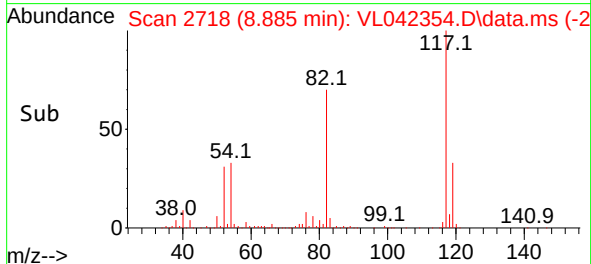
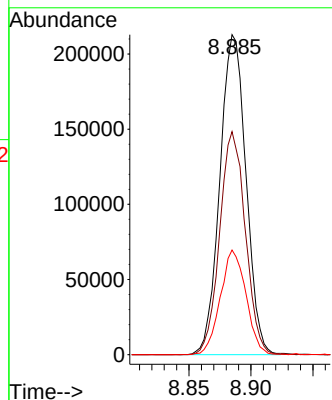
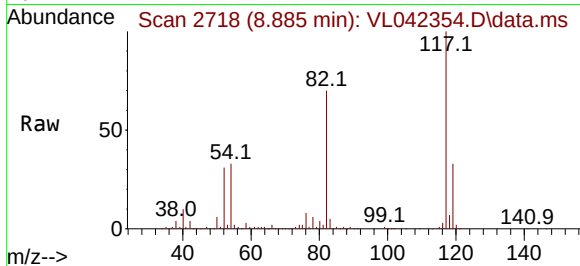




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2717
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

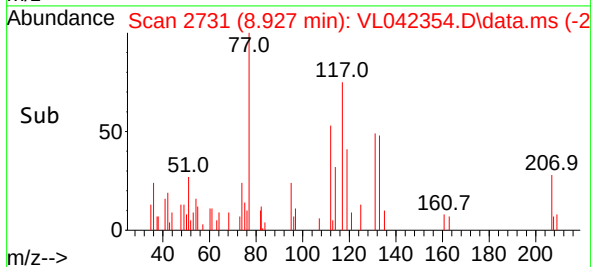
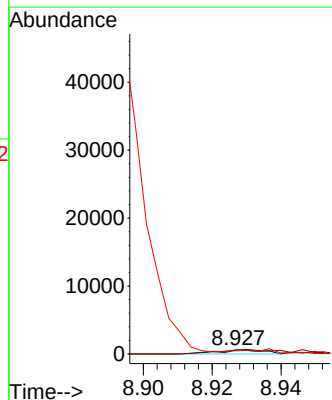
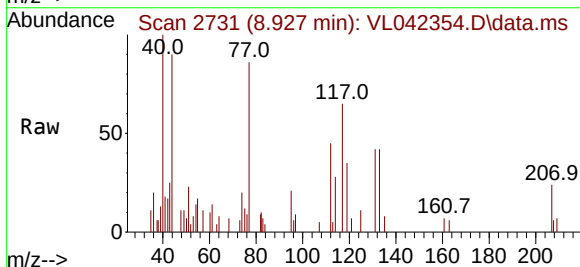
Instrument :
MSVOA_1
ClientSampleId :
VSTDICC0.03

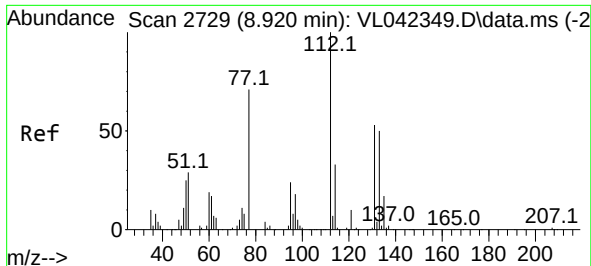
Tgt Ion:117 Resp: 312999
Ion Ratio Lower Upper
117 100
82 68.5 57.8 86.6
119 32.2 25.2 37.8



#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#

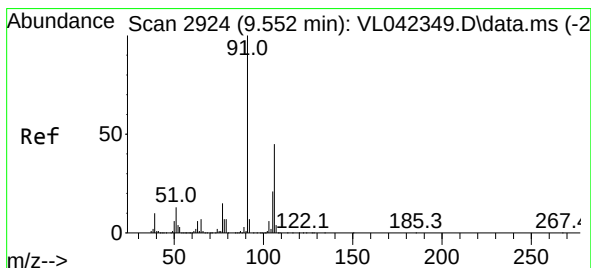
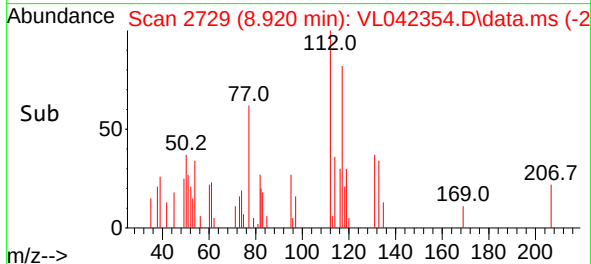
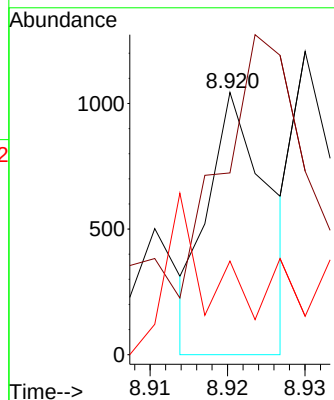
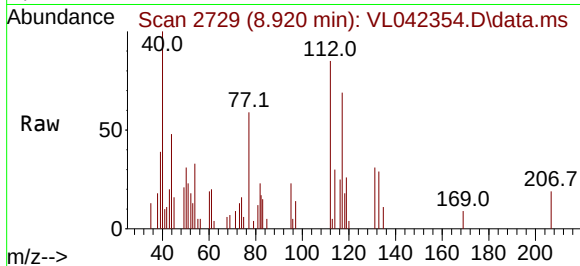




#57
Chlorobenzene
Concen: 0.017 ppbv
RT: 8.920 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

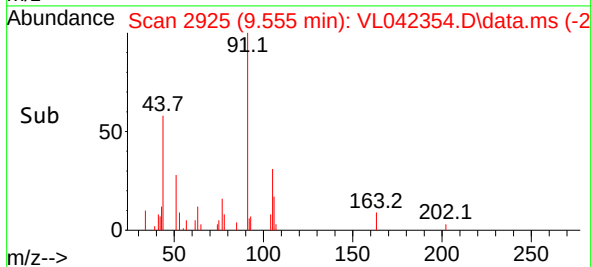
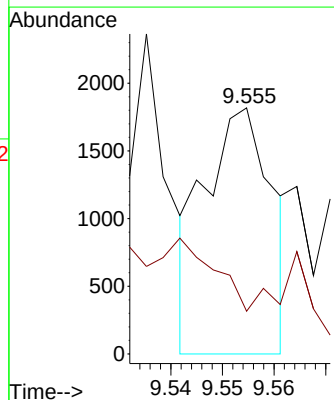
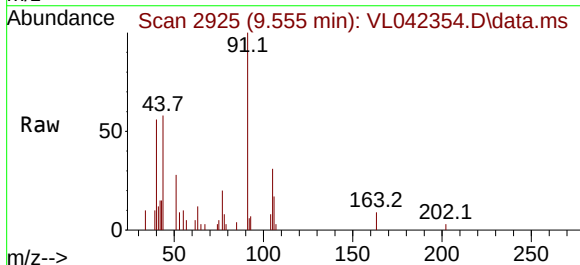
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

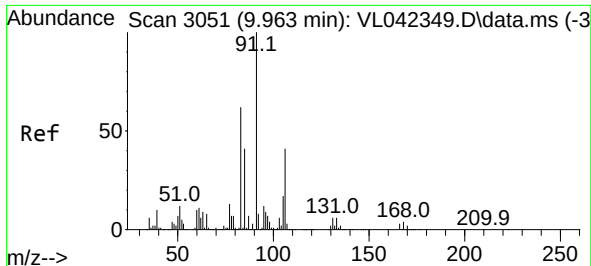
Tgt Ion: 112 Resp: 567
Ion Ratio Lower Upper
112 100
77 62.5 57.8 86.6
114 0.0 29.3 35.9#



#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#

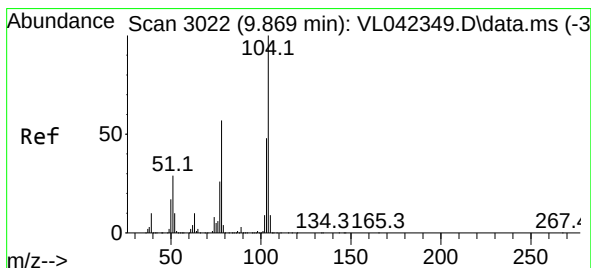
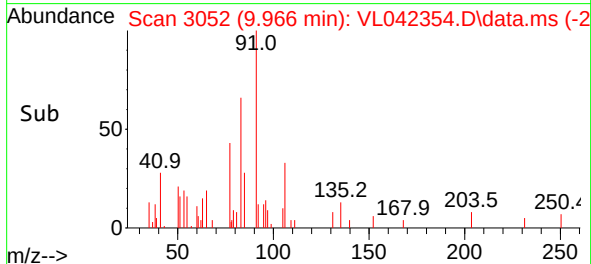
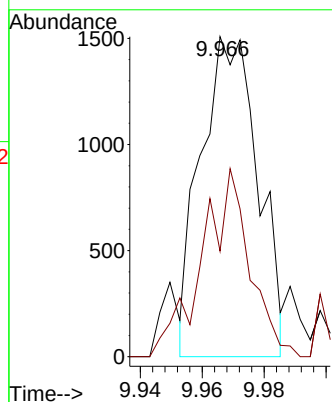
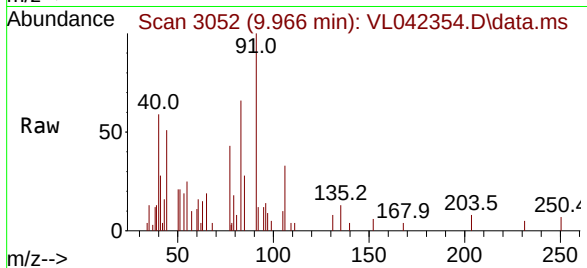




#60
o-Xylene
Concen: 0.039 ppbv
RT: 9.966 min Scan# 3051
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

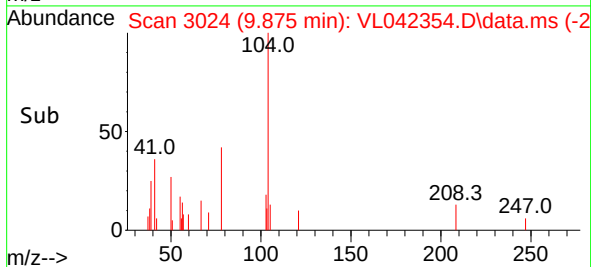
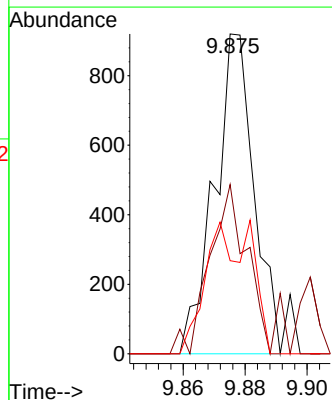
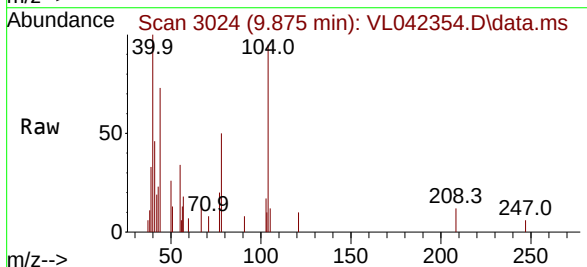
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

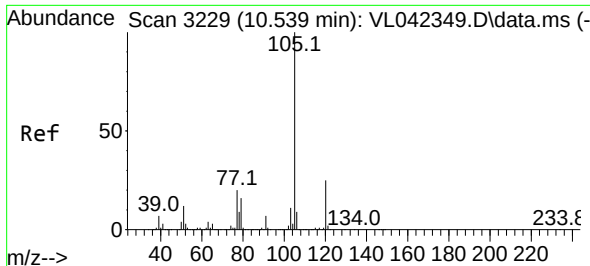
Tgt Ion: 91 Resp: 1938
Ion Ratio Lower Upper
91 100
106 52.6 21.1 63.4



#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

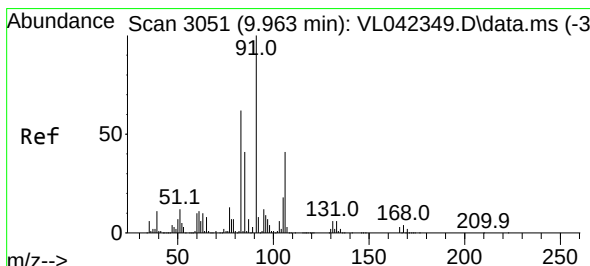
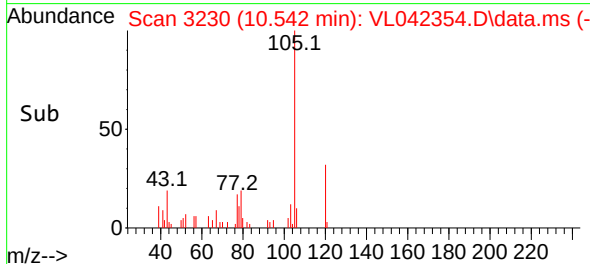
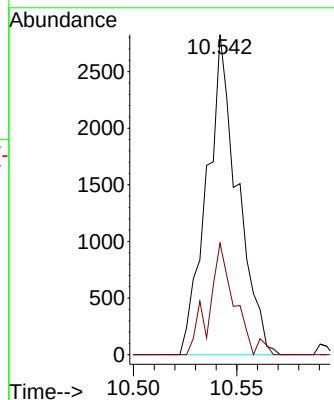
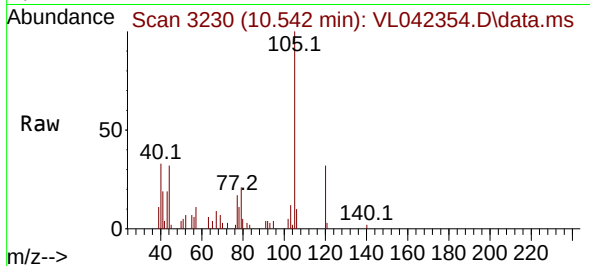




#62
Isopropylbenzene
Concen: 0.040 ppbv
RT: 10.542 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

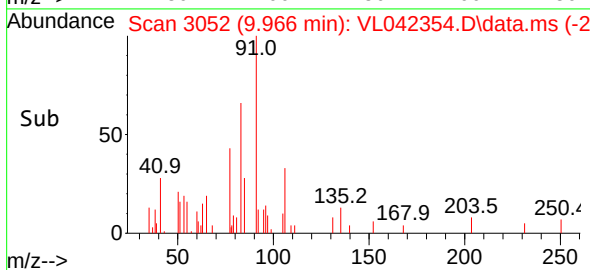
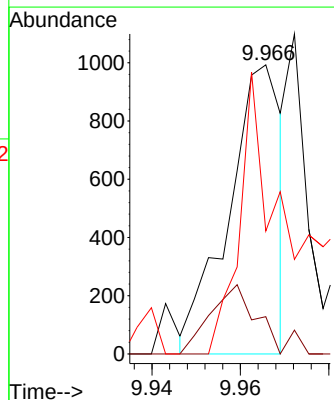
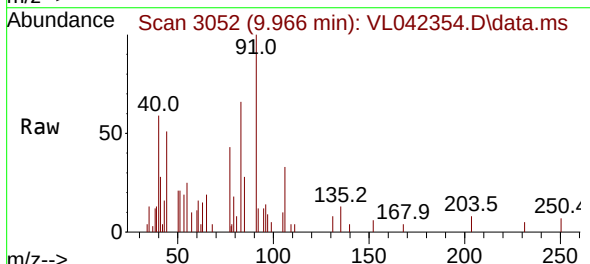
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.03

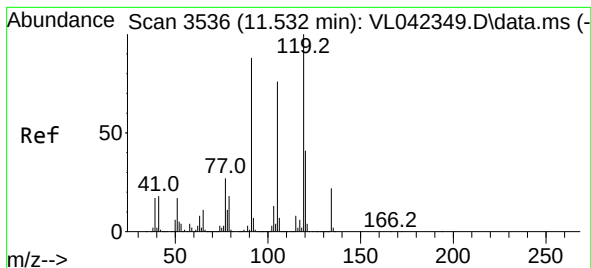
Tgt Ion:105 Resp: 2934
Ion Ratio Lower Upper
105 100
120 28.8 19.8 29.8



#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

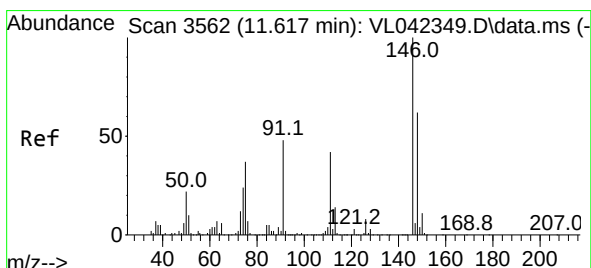
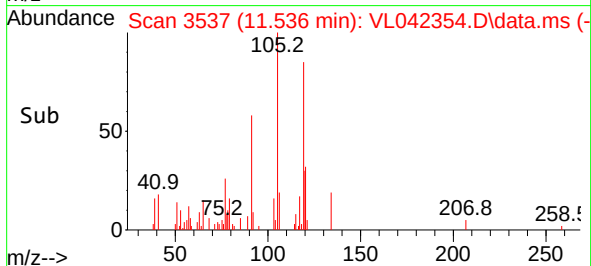
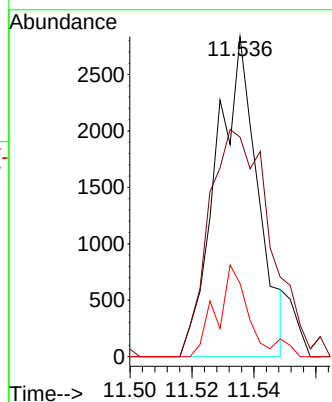
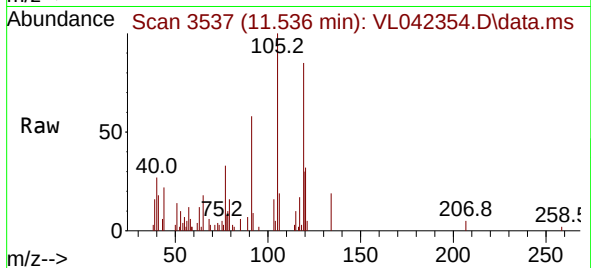
Tgt Ion:119 Resp: 2656

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

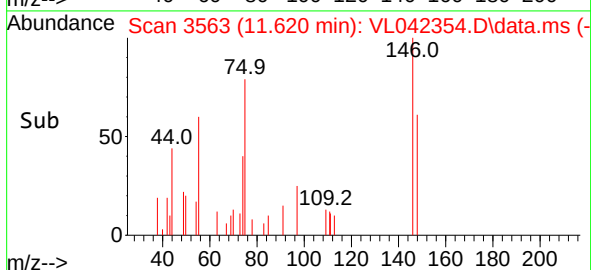
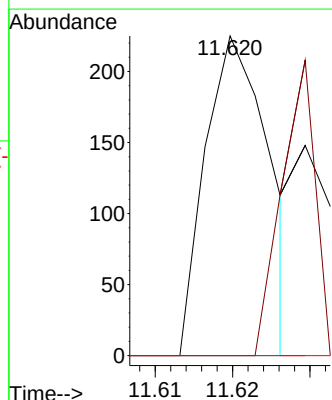
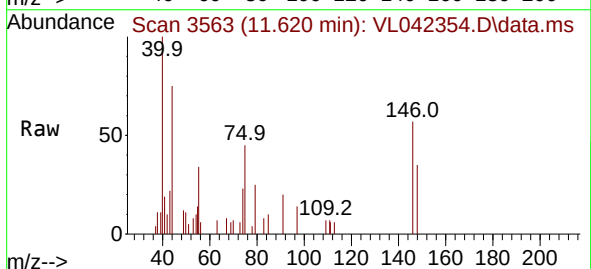
Tgt Ion: 91 Resp: 130

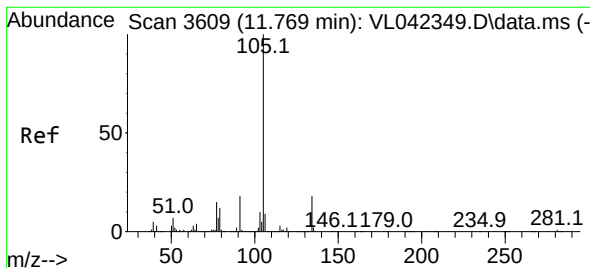
Ion Ratio Lower Upper

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_L

ClientSampleId :

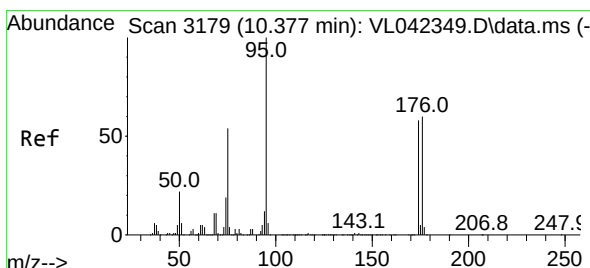
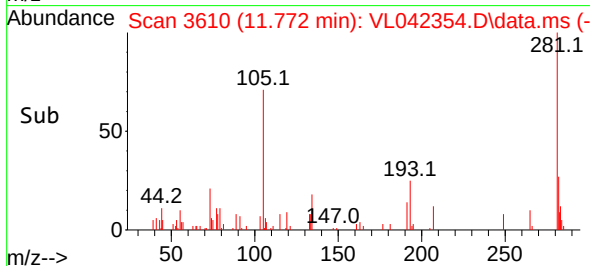
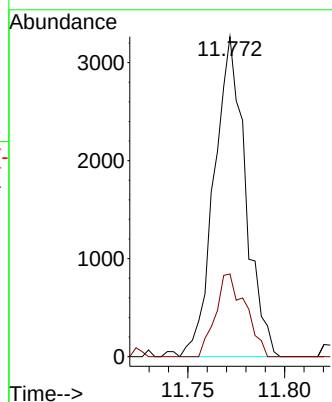
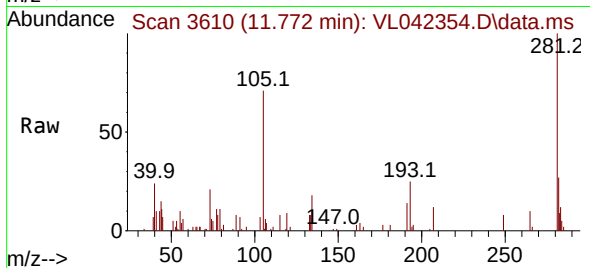
VSTDIC0.03

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

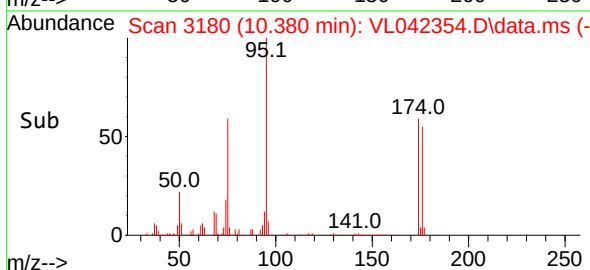
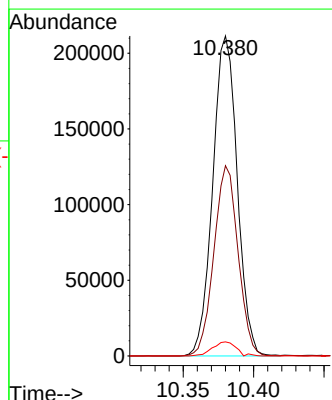
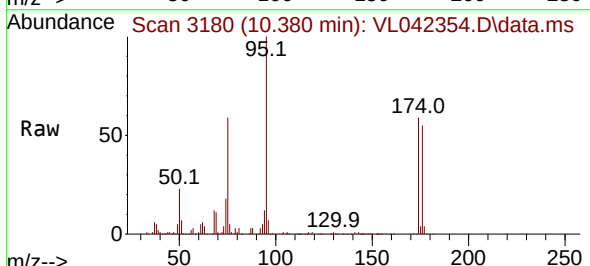
Tgt Ion: 95 Resp: 256230

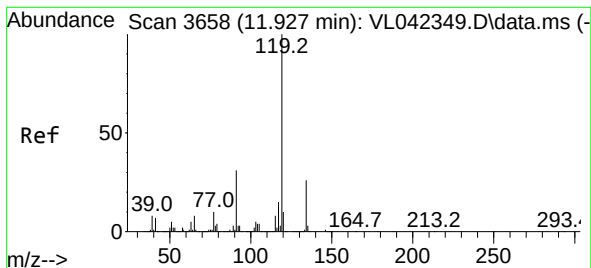
Ion Ratio Lower Upper

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# 3

Delta R.T. 0.003 min

Lab File: VL042354.D

Acq: 17 Apr 2025 12:22

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

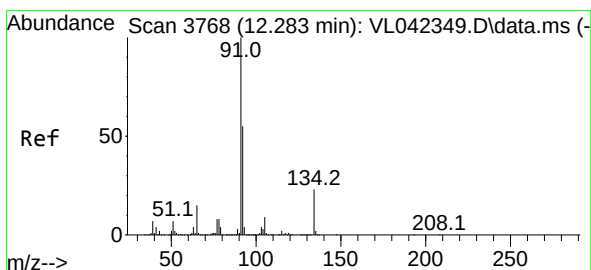
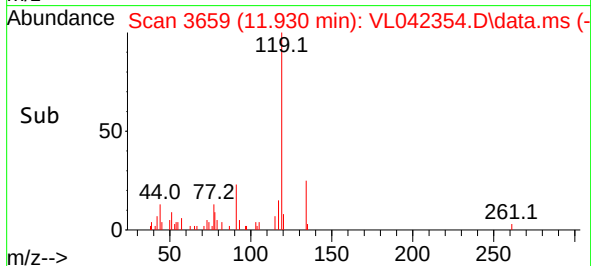
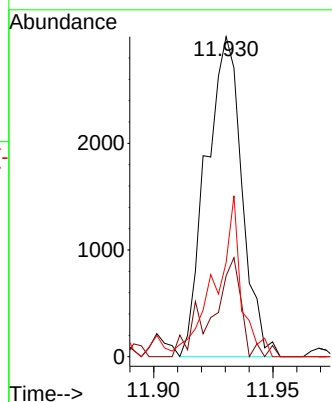
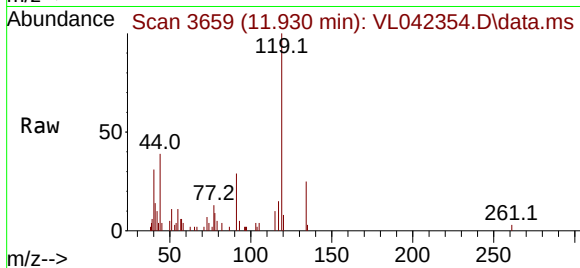
Tgt Ion:119 Resp: 3139

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

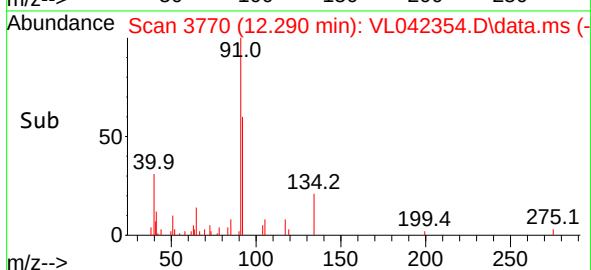
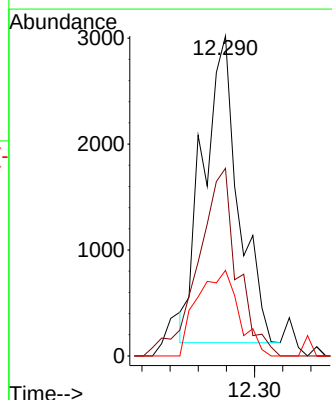
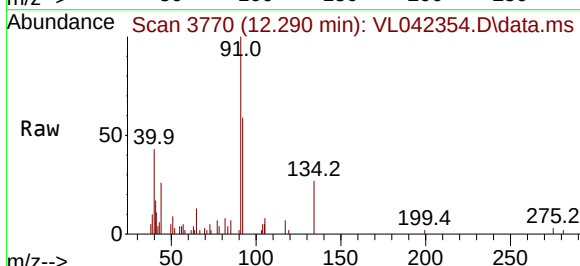
Tgt Ion: 91 Resp: 2516

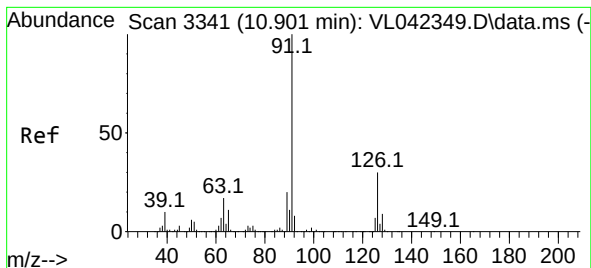
Ion Ratio Lower Upper

91 100

92 67.4 44.2 66.4#

134 34.4 18.2 27.4#

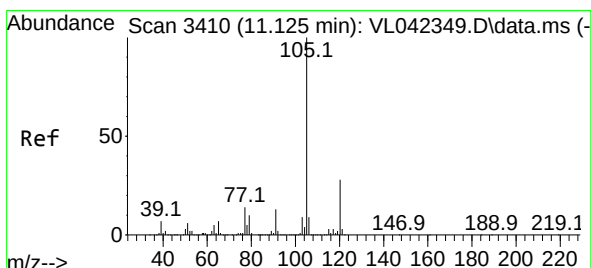
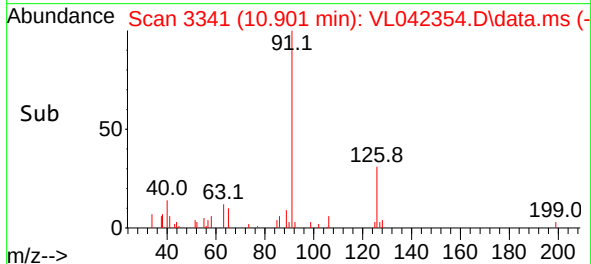
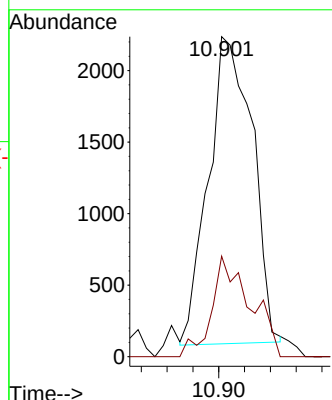
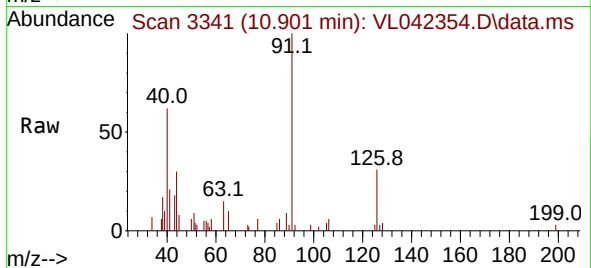




#71
2-Chlorotoluene
Concen: 0.044 ppbv
RT: 10.901 min Scan# 311
Delta R.T. -0.000 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

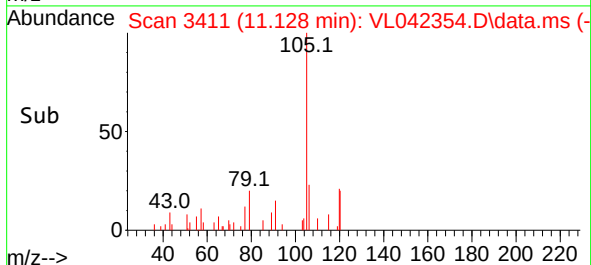
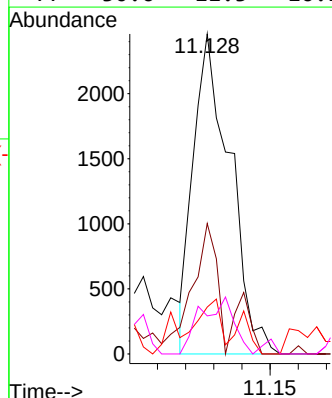
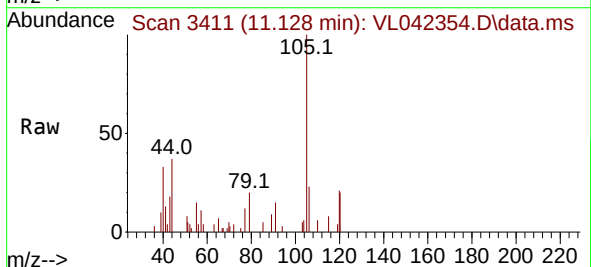
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.03

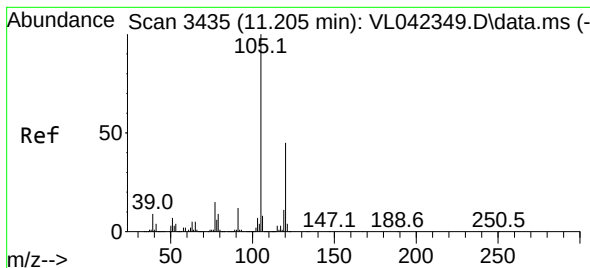
Tgt Ion: 91 Resp: 2537
Ion Ratio Lower Upper
91 100
126 28.7 11.4 45.4



#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 :

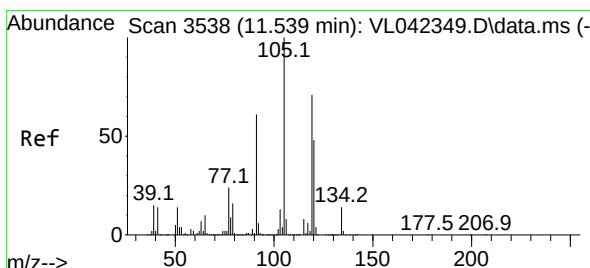
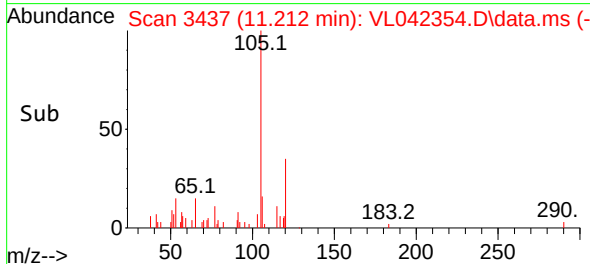
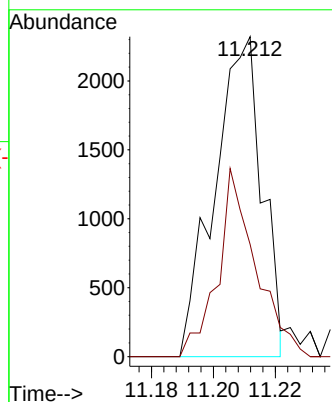
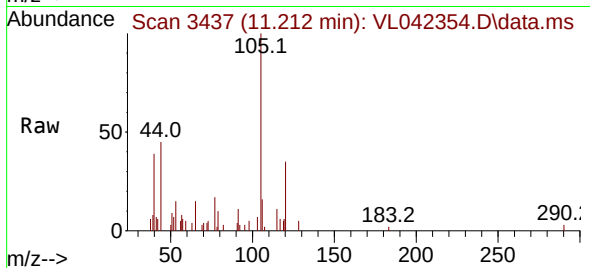
VSTDIC0.03

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

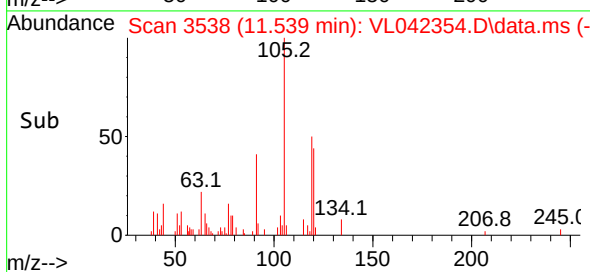
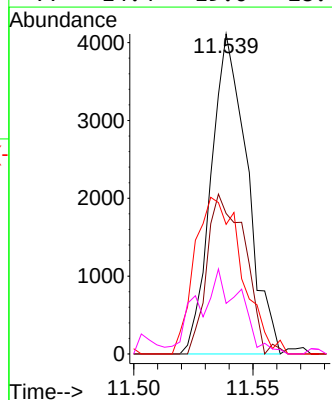
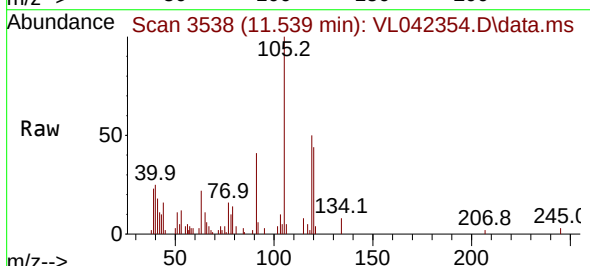
Ion Ratio Lower Upper

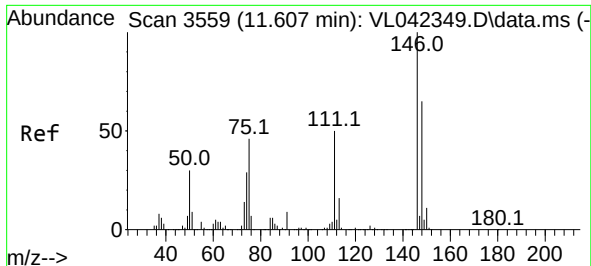
105 100

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

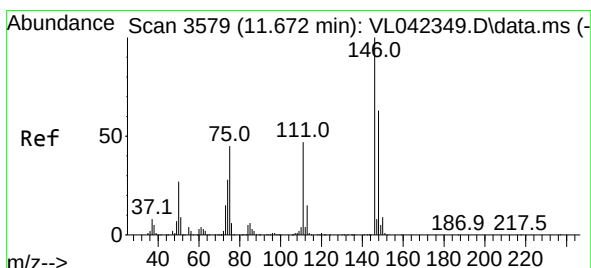
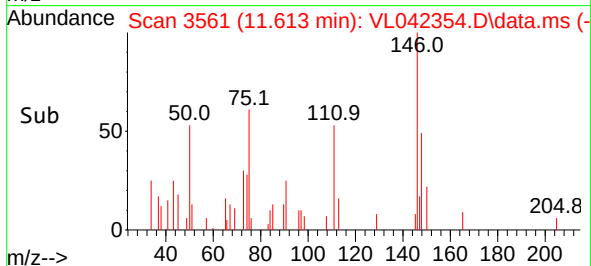
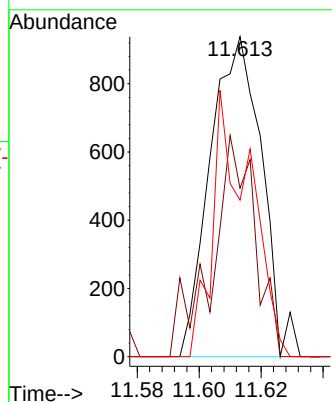
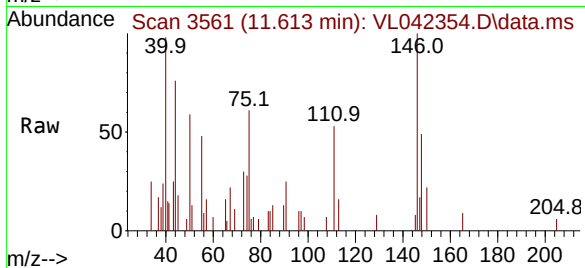
Tgt Ion:146 Resp: 1056

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

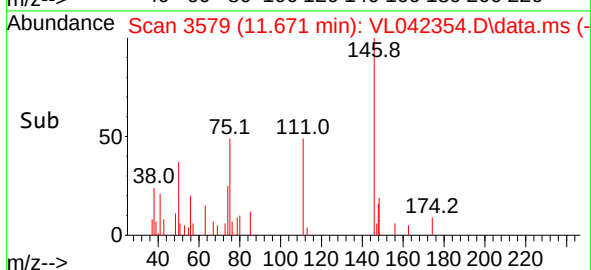
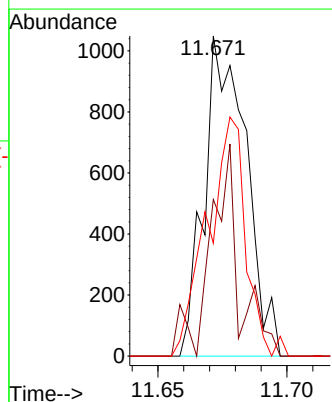
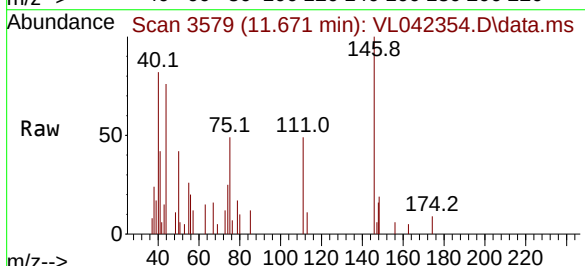
Tgt Ion:146 Resp: 1180

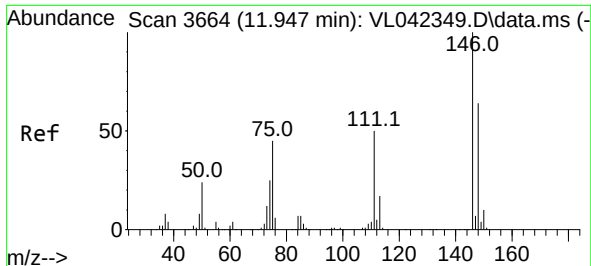
Ion Ratio Lower Upper

146 100

111 45.4 24.2 72.6

148 68.3 32.1 96.5

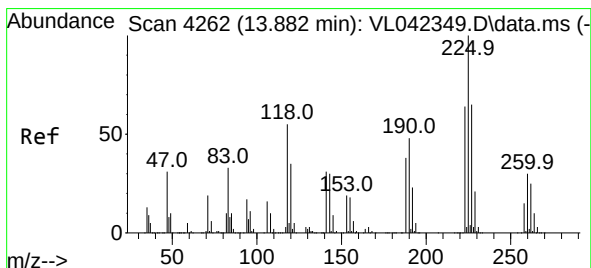
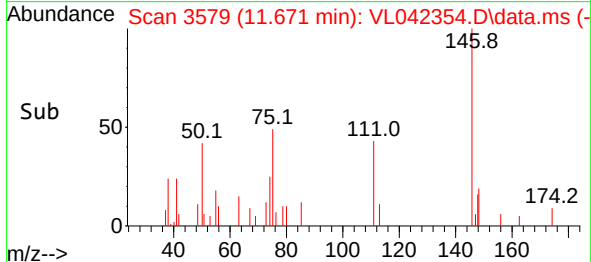
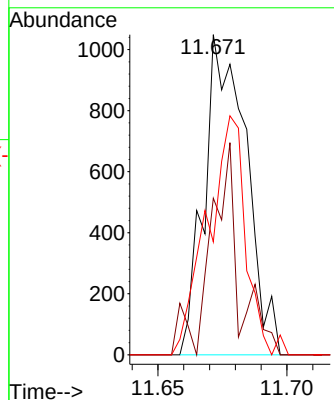
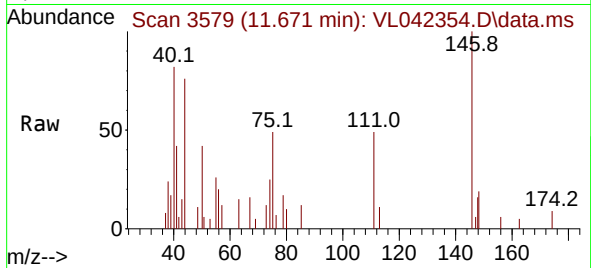




#77
1,2-Dichlorobenzene
Concen: 0.037 ppbv
RT: 11.671 min Scan# 3
Delta R.T. -0.275 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

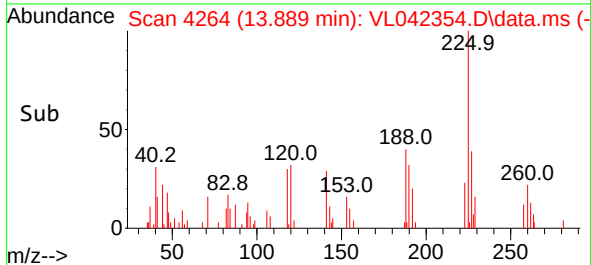
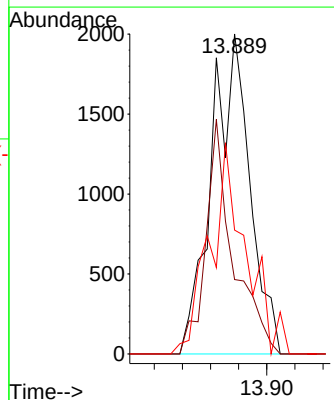
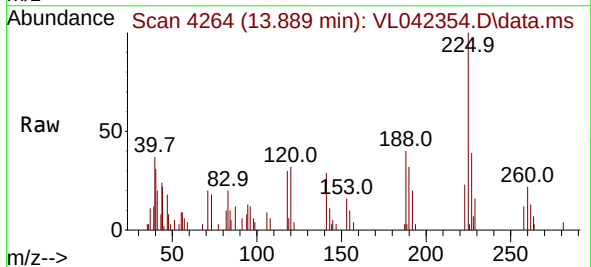
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

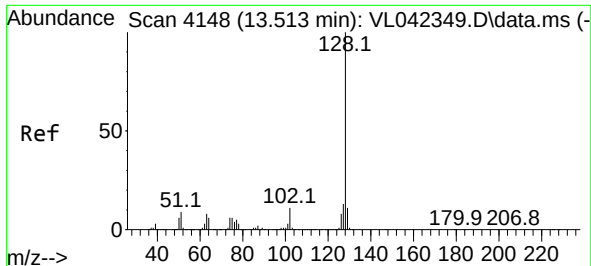
Tgt Ion:146 Resp: 1180
Ion Ratio Lower Upper
146 100
111 45.4 25.3 75.9
148 68.3 31.5 94.5



#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

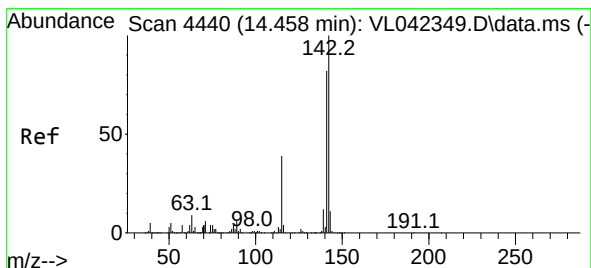
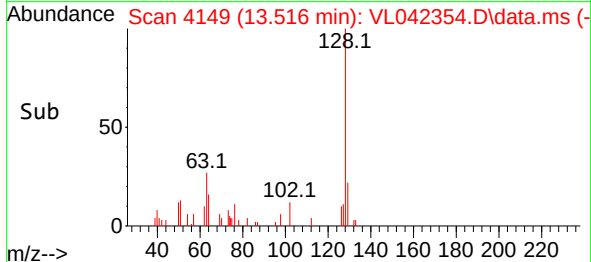
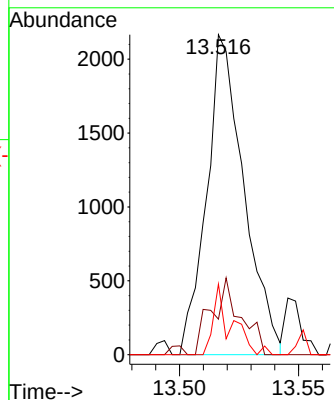
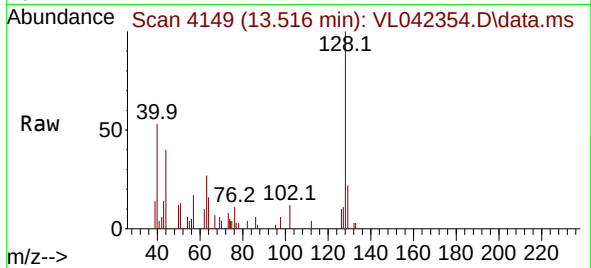




#79
Naphthalene
Concen: 0.031 ppbv
RT: 13.516 min Scan# 4148
Delta R.T. 0.003 min
Lab File: VL042354.D
Acq: 17 Apr 2025 12:22

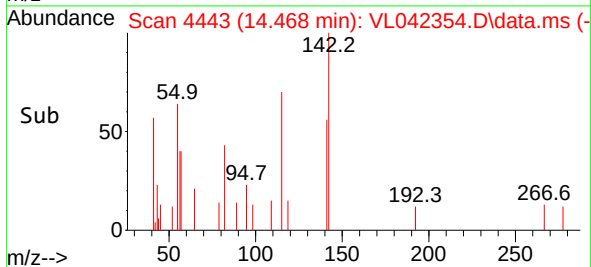
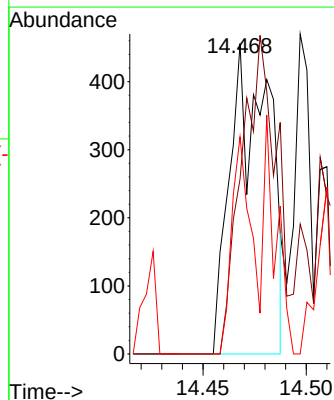
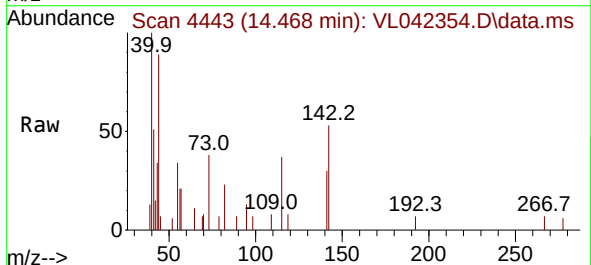
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

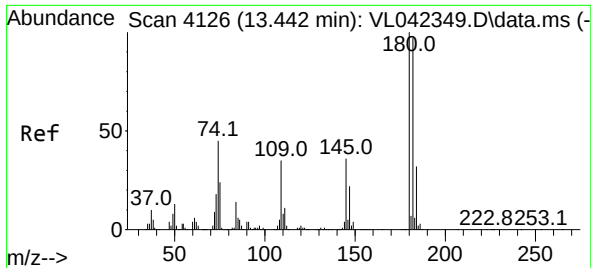
Tgt Ion:128 Resp: 2354
Ion Ratio Lower Upper
128 100
127 11.1 10.6 15.8
129 22.1 8.6 12.8#



#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

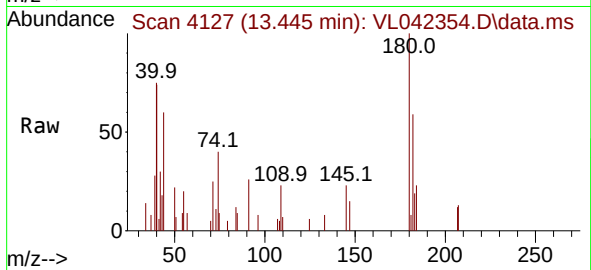
Tgt Ion:142 Resp: 594
Ion Ratio Lower Upper
142 100
141 136.0 66.8 100.2#
115 59.1 33.4 50.2#



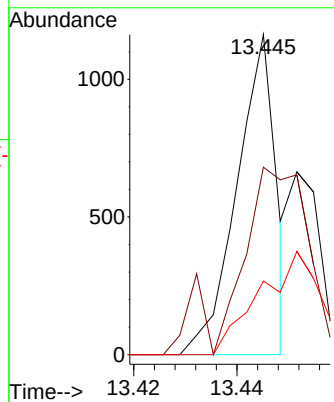
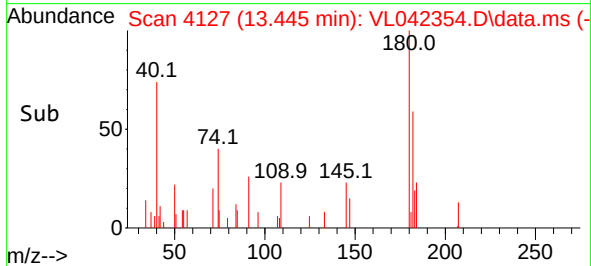


#81
 1,2,4-Trichlorobenzene
 Concen: 0.019 ppbv
 RT: 13.445 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL042354.D
 Acq: 17 Apr 2025 12:22

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

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

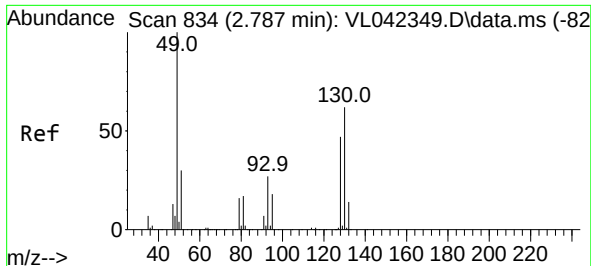
Quant Time: Apr 18 01:31:10 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 01:24:29 2025
 Response via : Initial Calibration

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

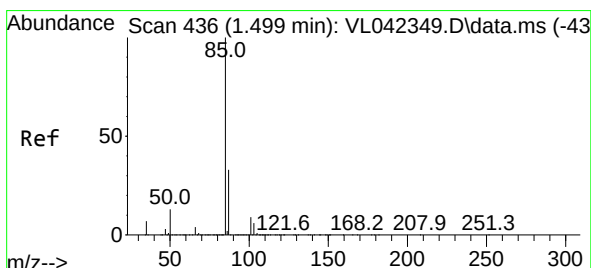
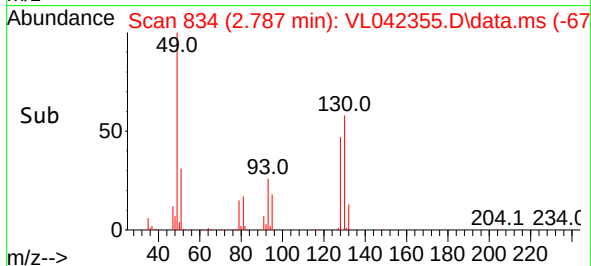
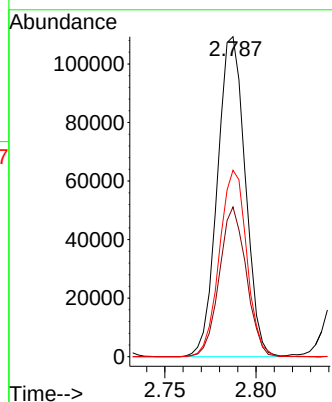
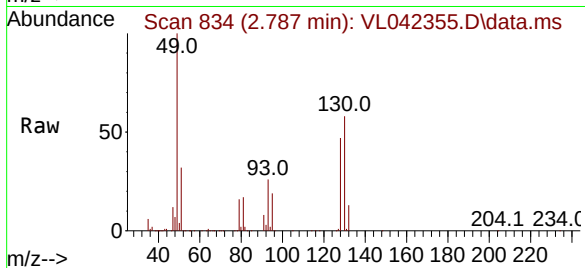
Tgt Ion: 49 Resp: 116071

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

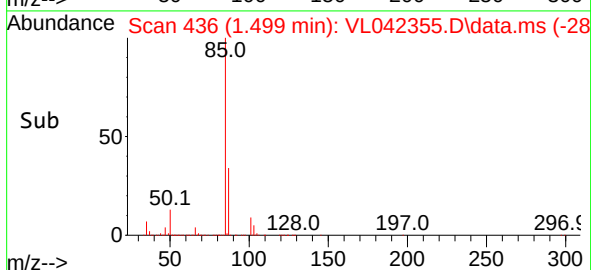
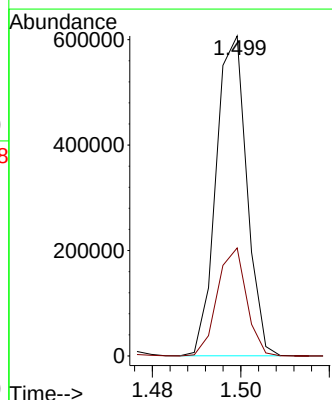
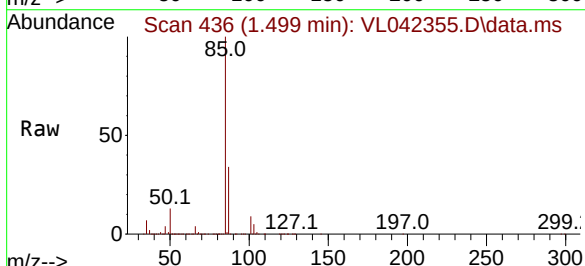
Acq: 17 Apr 2025 12:54

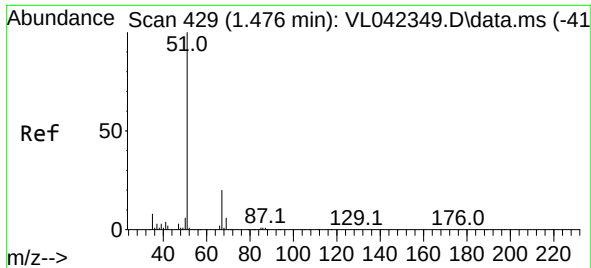
Tgt Ion: 85 Resp: 292784

Ion Ratio Lower Upper

85 100

87 33.8 26.6 39.8

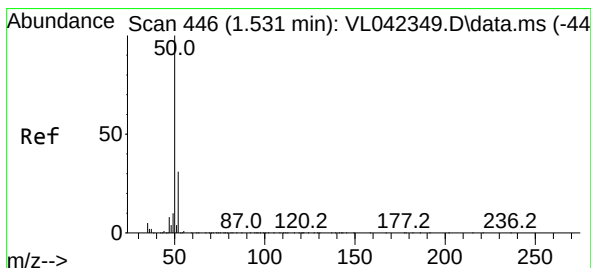
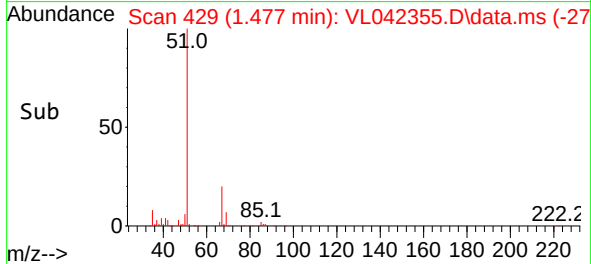
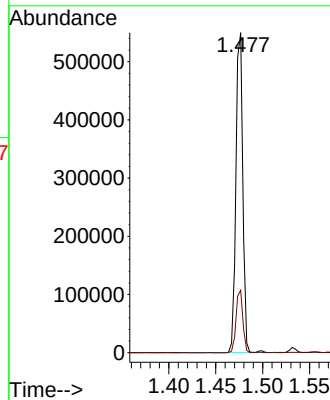
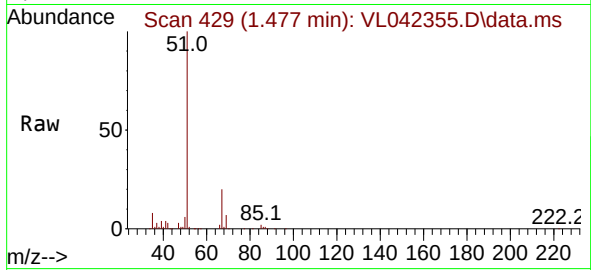




#3
Chlorodifluoromethane
Concen: 14.341 ppbv
RT: 1.477 min Scan# 429
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

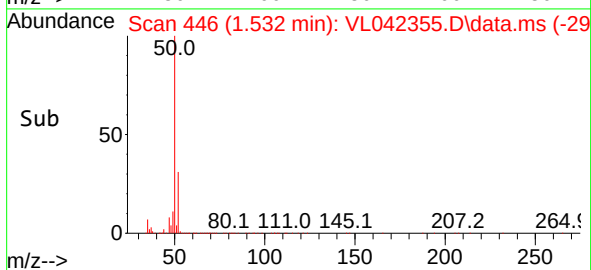
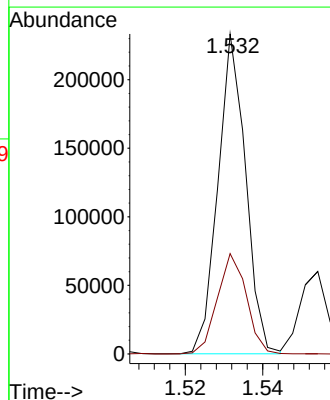
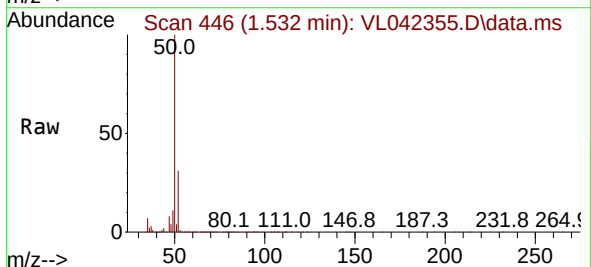
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

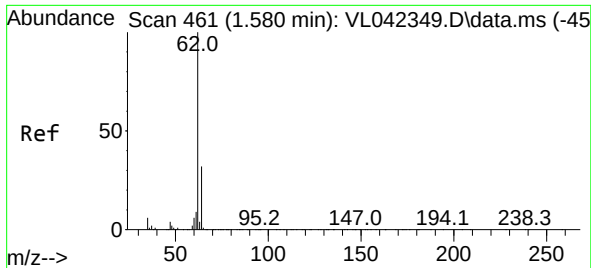
Tgt Ion: 51 Resp: 280042
Ion Ratio Lower Upper
51 100
67 19.5 16.2 24.4



#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

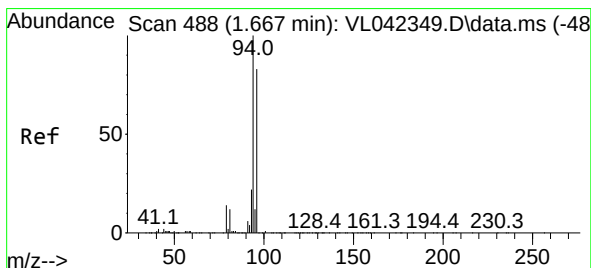
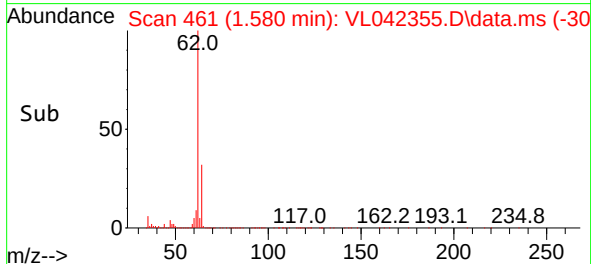
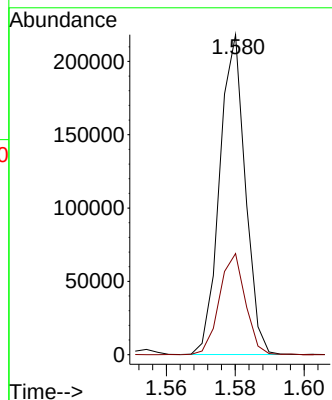
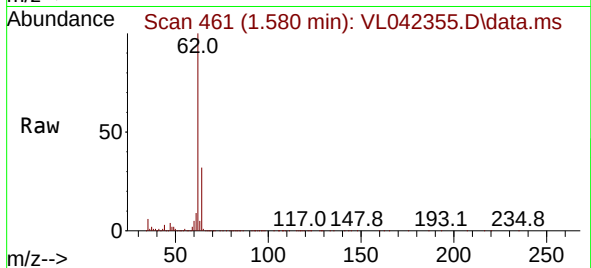




#5
 Vinyl Chloride
 Concen: 12.752 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. 0.000 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54

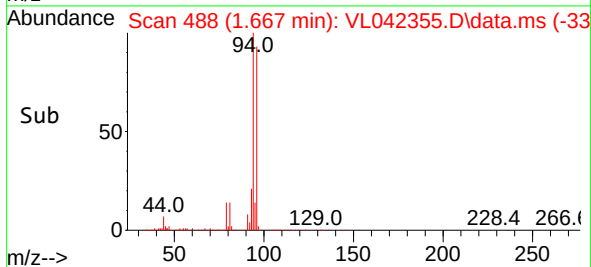
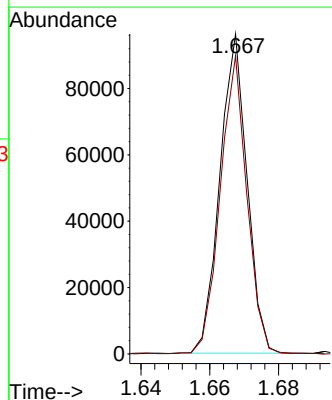
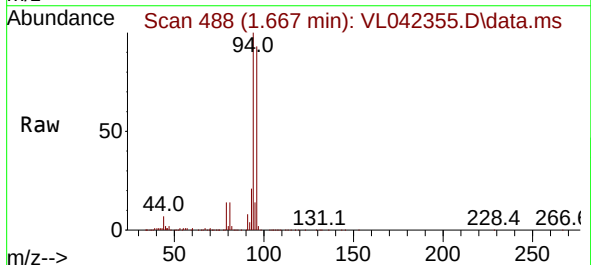
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC015

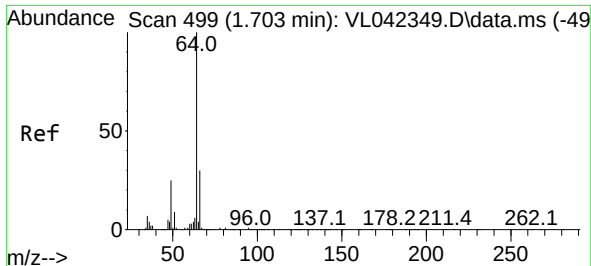
Tgt Ion: 62 Resp: 112650
 Ion Ratio Lower Upper
 62 100
 64 31.6 25.4 38.0



#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

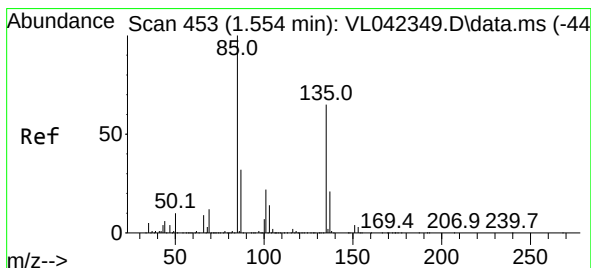
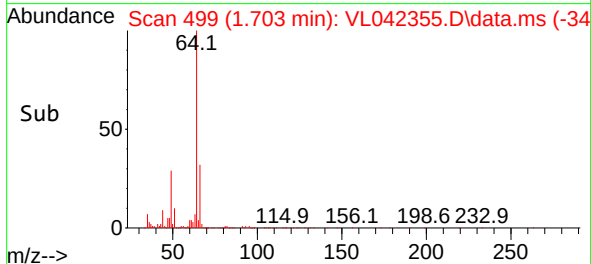
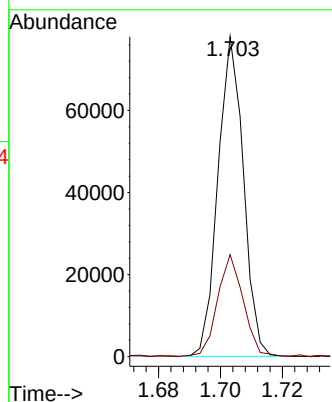
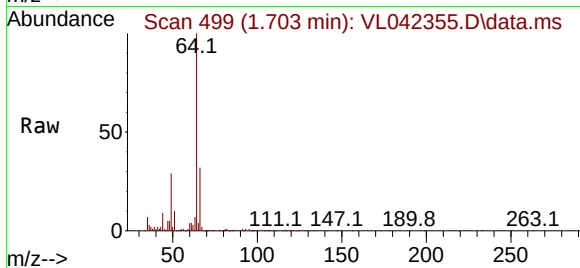




#7
Chloroethane
Concen: 13.881 ppbv
RT: 1.703 min Scan# 499
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

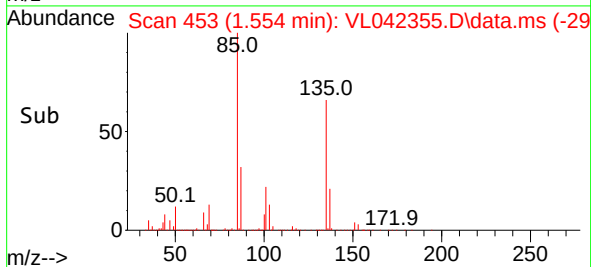
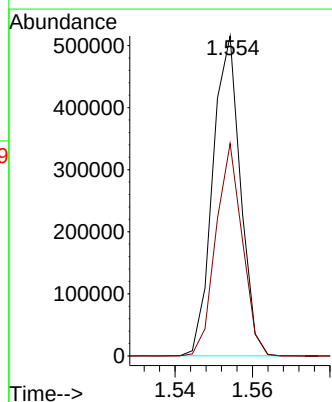
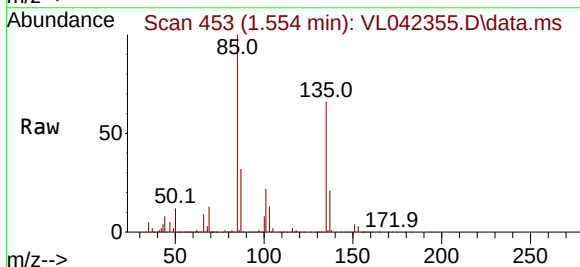
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

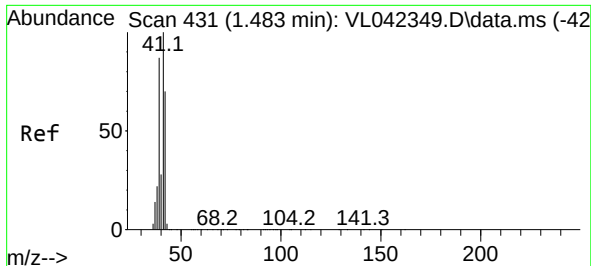
Tgt Ion: 64 Resp: 44347
Ion Ratio Lower Upper
64 100
66 31.9 24.6 37.0



#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 :

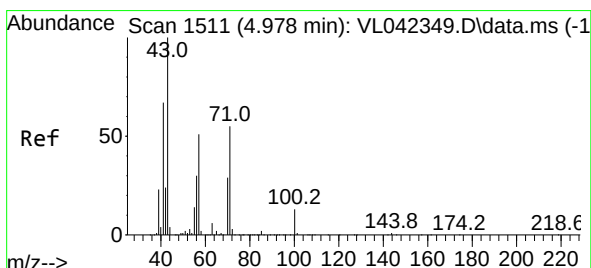
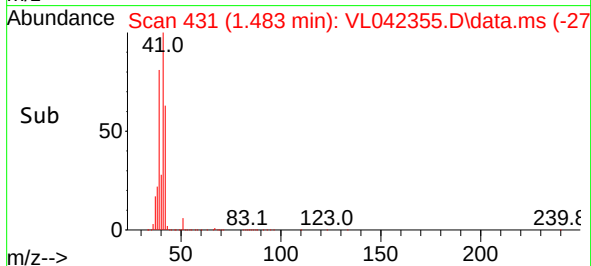
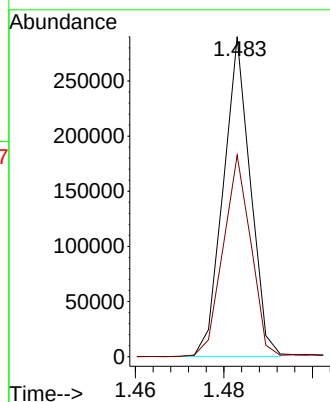
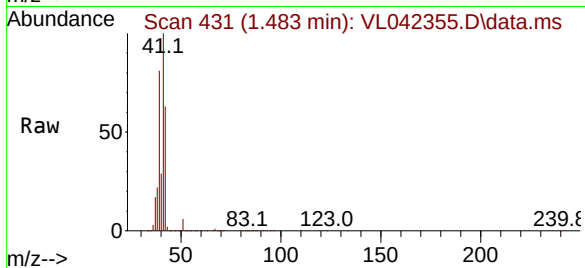
VSTDIC015

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

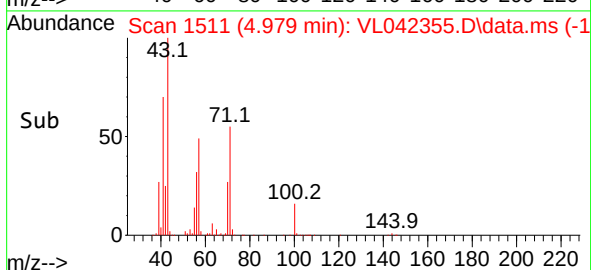
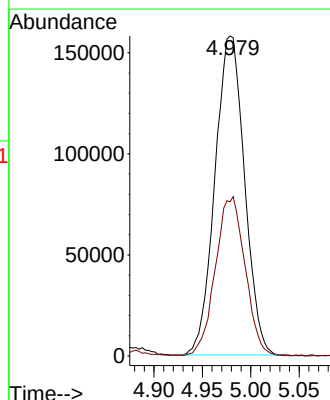
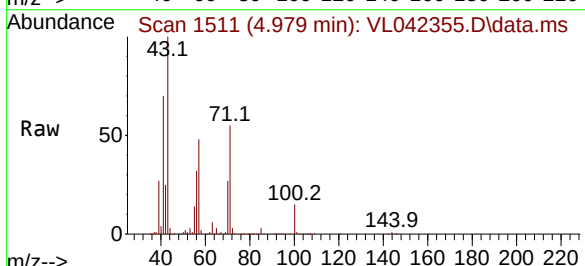
Acq: 17 Apr 2025 12:54

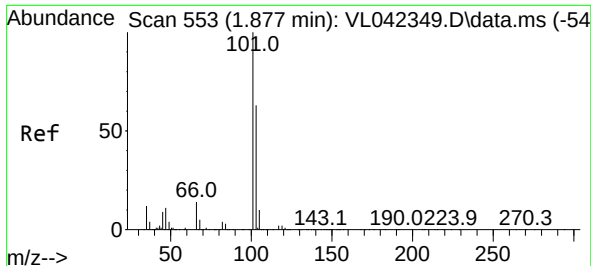
Tgt Ion: 43 Resp: 336134

Ion Ratio Lower Upper

43 100

57 50.0 39.9 59.9

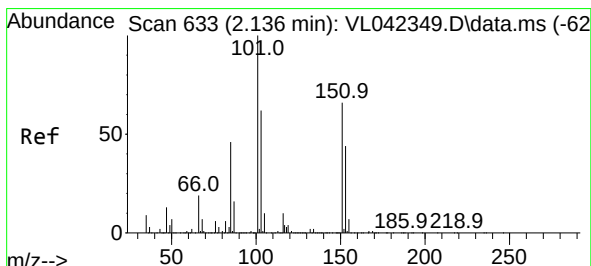
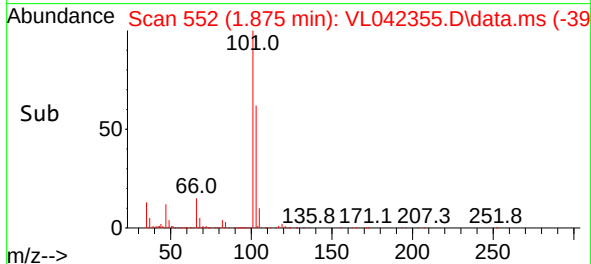
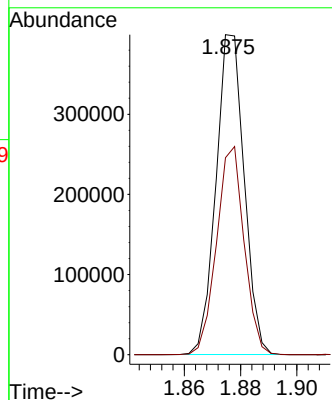
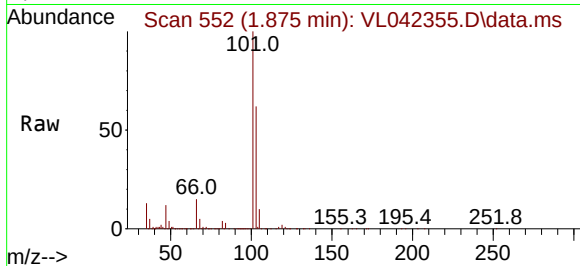




#11
 Trichlorofluoromethane
 Concen: 14.258 ppbv
 RT: 1.875 min Scan# 511
 Delta R.T. -0.003 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54

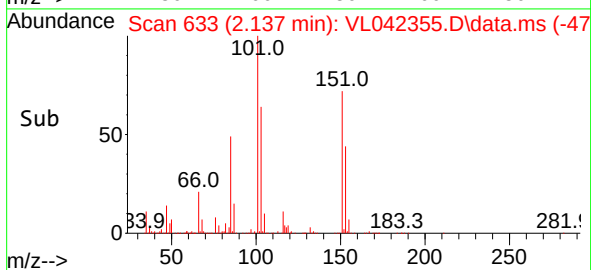
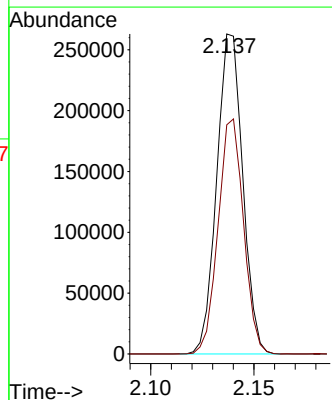
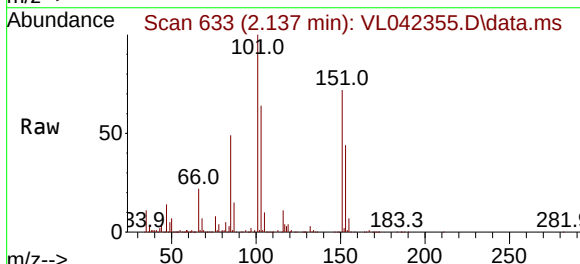
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

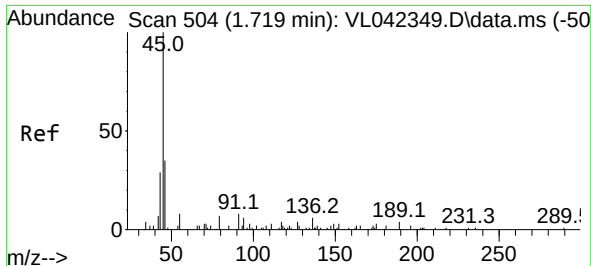
Tgt Ion:101 Resp: 278059
 Ion Ratio Lower Upper
 101 100
 103 61.6 50.1 75.1



#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

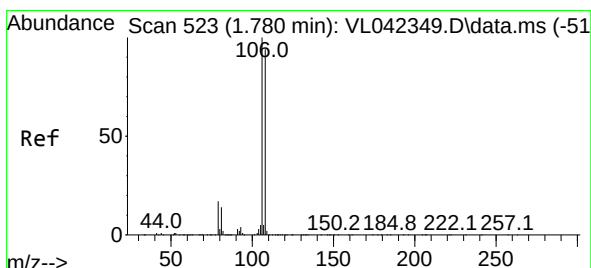
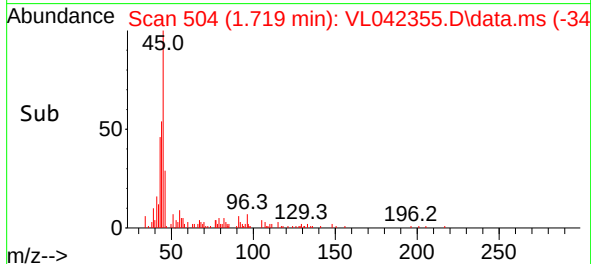
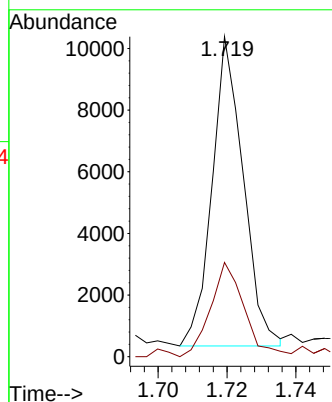
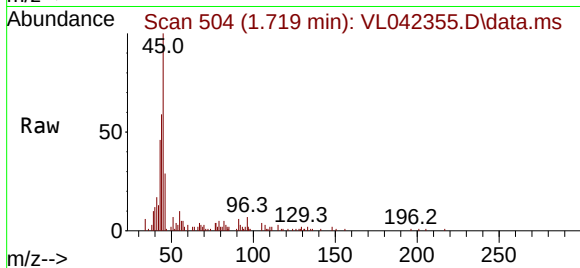




#13
Ethanol
Concen: 8.702 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

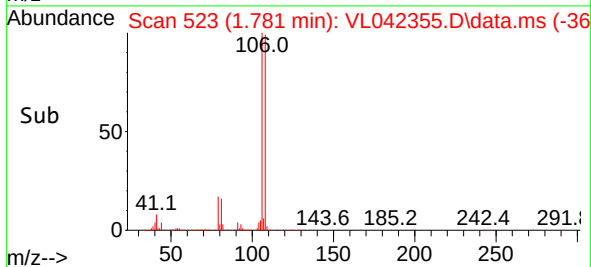
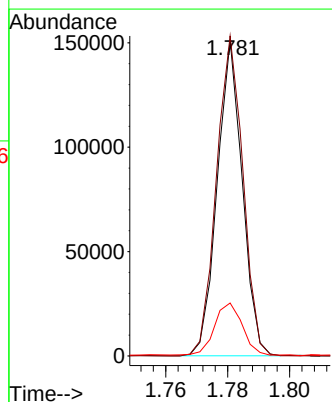
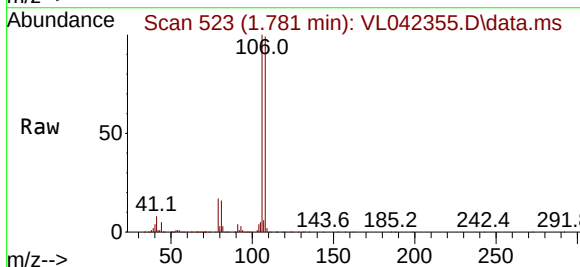
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

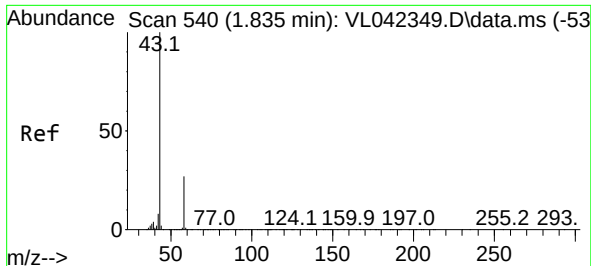
Tgt Ion: 45 Resp: 6324
Ion Ratio Lower Upper
45 100
46 37.6 21.9 87.7



#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

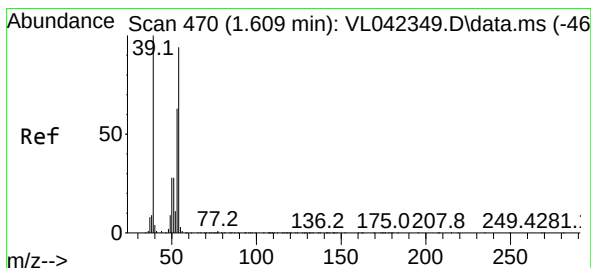
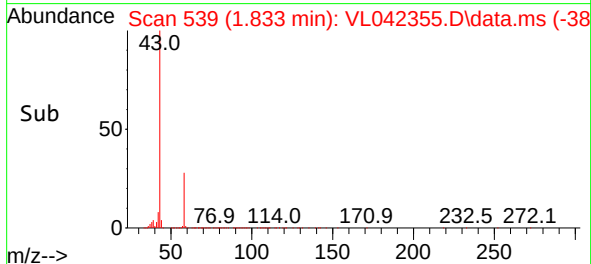
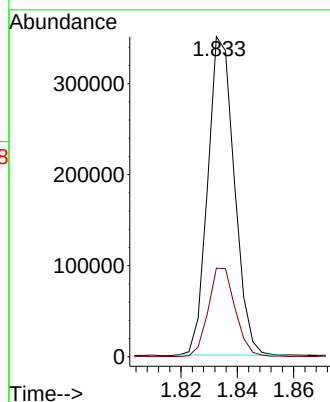
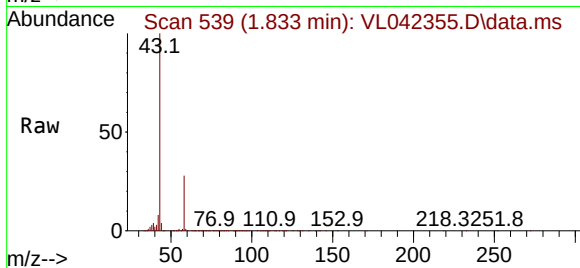




#15
Acetone
Concen: 12.056 ppbv
RT: 1.833 min Scan# 51
Delta R.T. -0.003 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

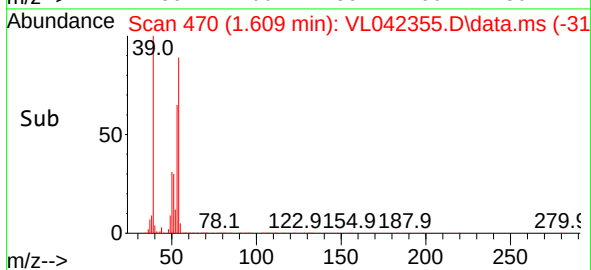
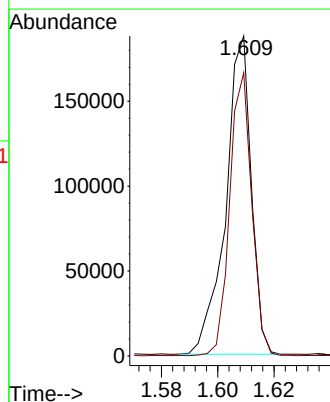
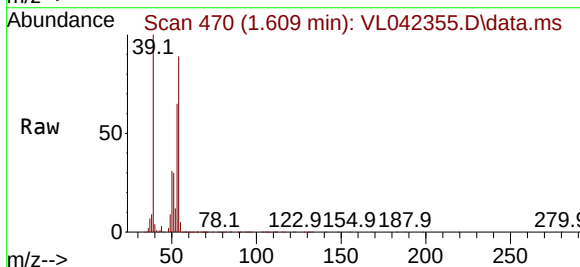
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

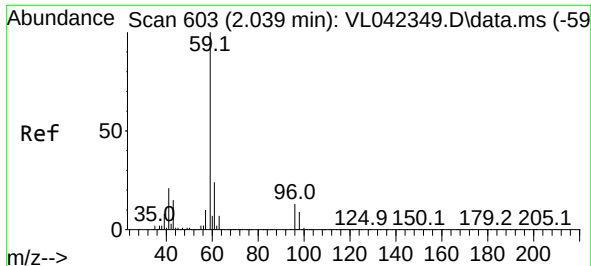
Tgt Ion: 43 Resp: 229086
Ion Ratio Lower Upper
43 100
58 28.4 22.4 33.6



#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_L

ClientSampleId :

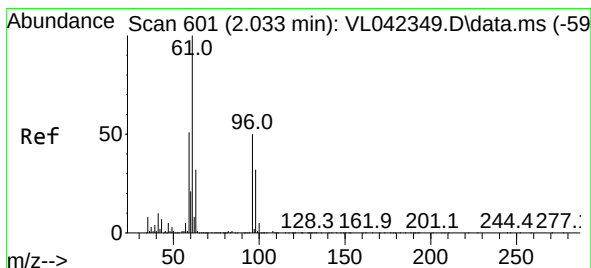
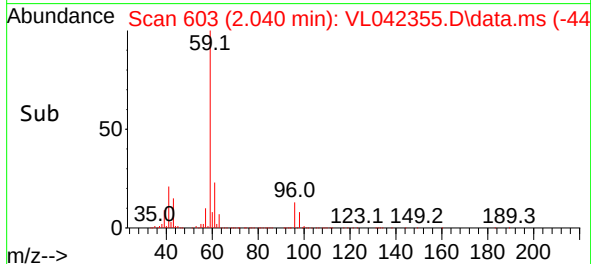
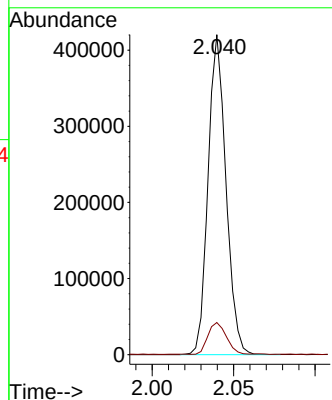
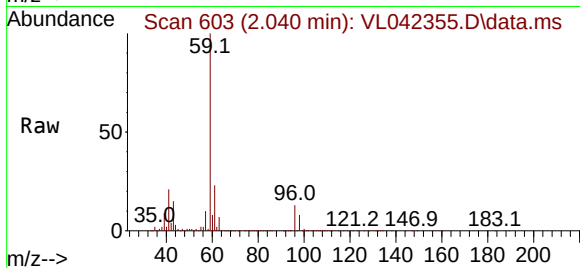
VSTDIC015

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

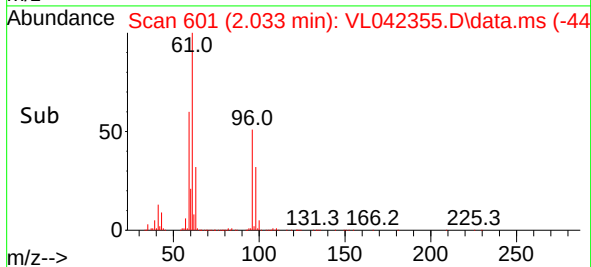
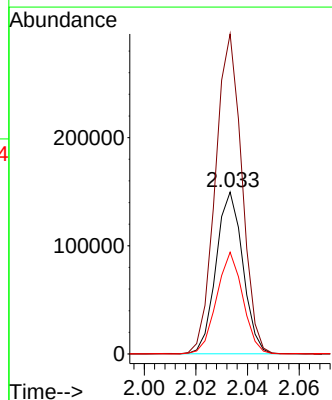
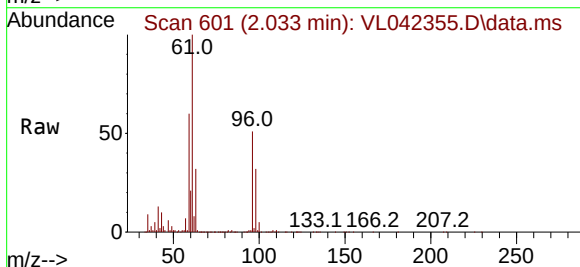
Tgt Ion: 96 Resp: 107666

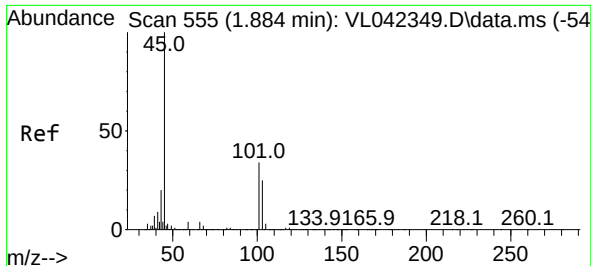
Ion Ratio Lower Upper

96 100

61 197.8 160.2 240.2

98 62.9 51.0 76.4

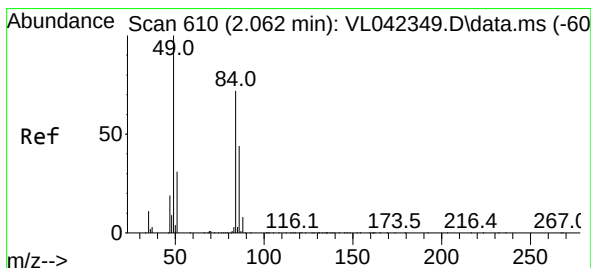
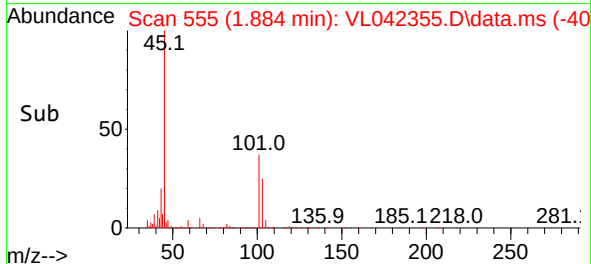
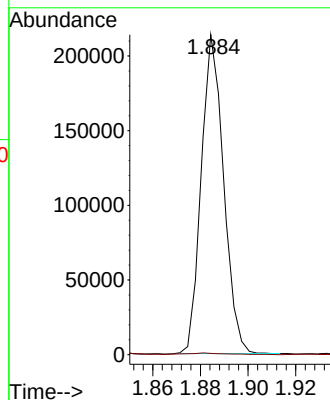
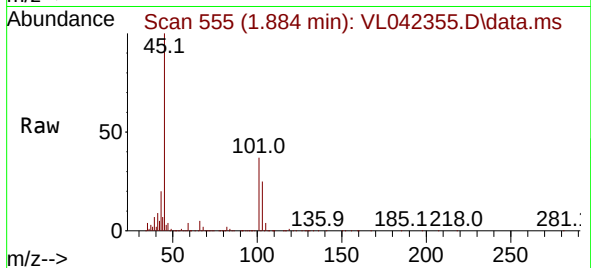




#19
Isopropyl Alcohol
Concen: 13.169 ppbv
RT: 1.884 min Scan# 511
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

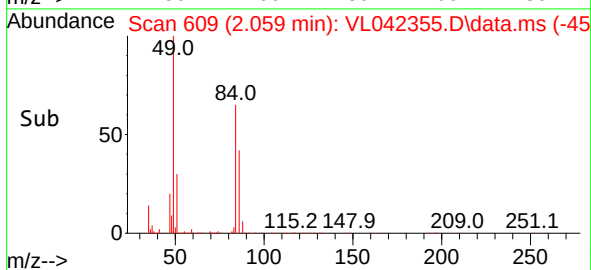
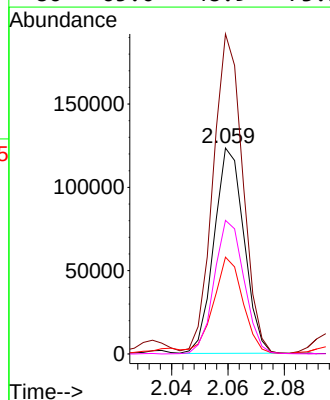
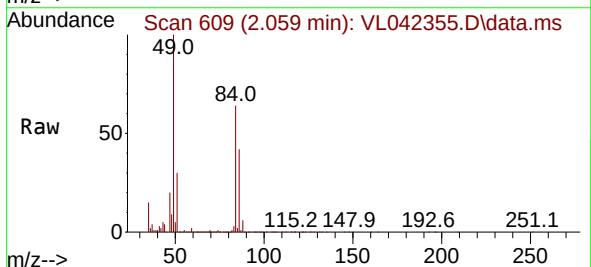
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

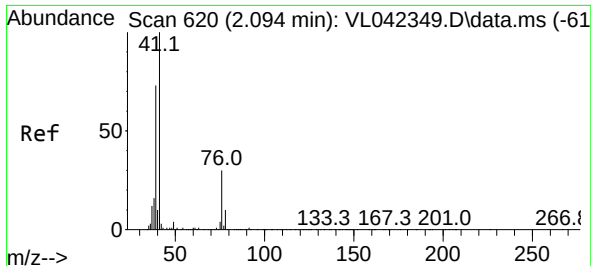
Tgt Ion: 45 Resp: 139004
Ion Ratio Lower Upper
45 100
58 46.9 34.5 51.7



#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

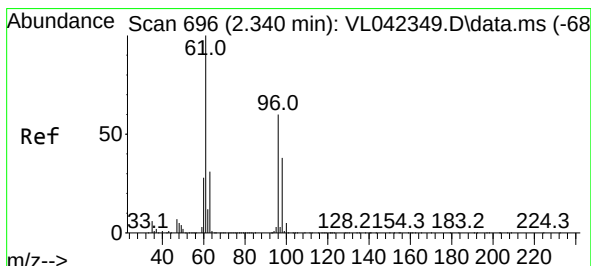
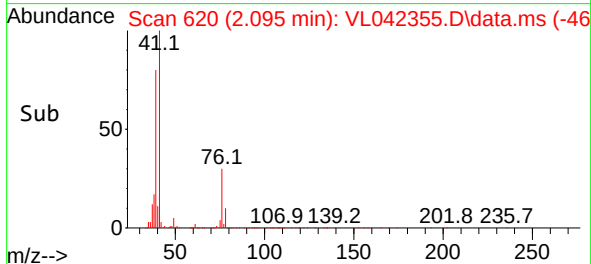
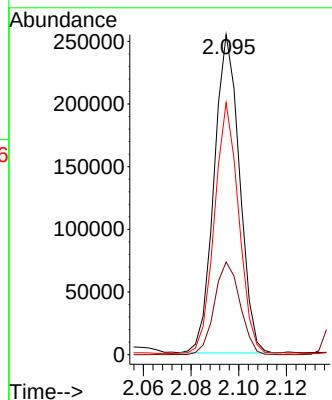
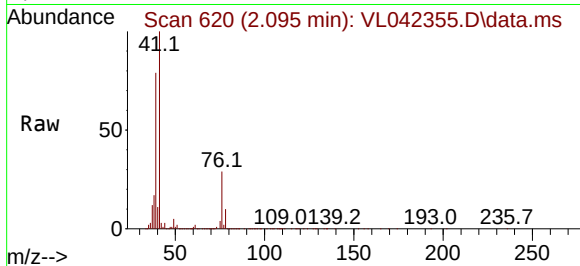




#21
 Allyl Chloride
 Concen: 14.329 ppbv
 RT: 2.095 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54

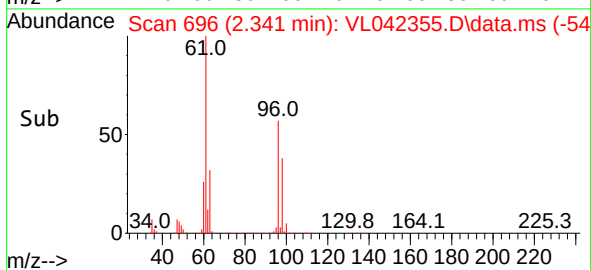
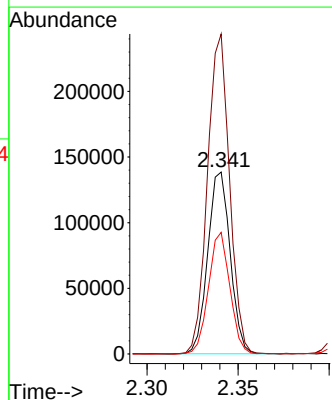
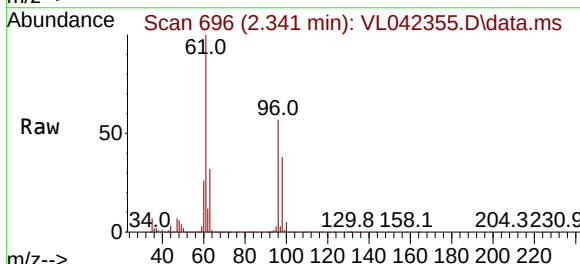
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

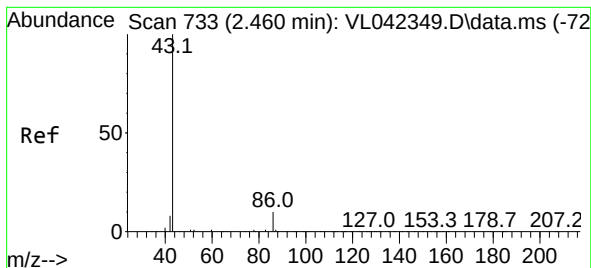
Tgt Ion: 41 Resp: 187995
 Ion Ratio Lower Upper
 41 100
 76 29.3 24.8 37.2
 39 75.2 60.6 90.8



#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_1

ClientSampleId :

VSTDIC015

Tgt Ion: 43 Resp: 106135

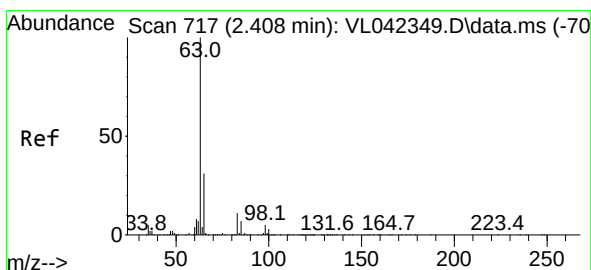
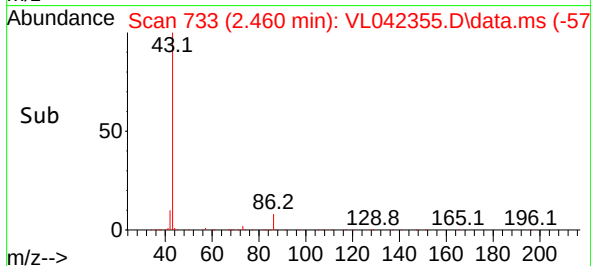
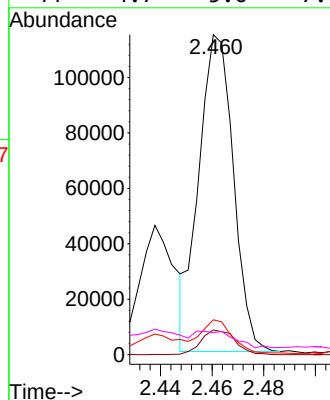
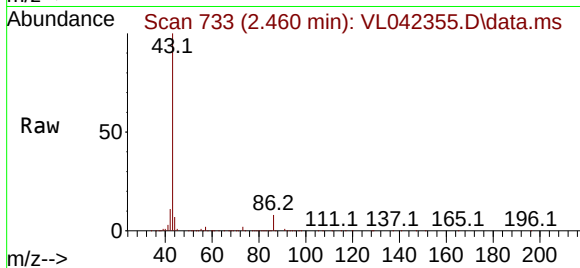
Ion Ratio Lower Upper

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

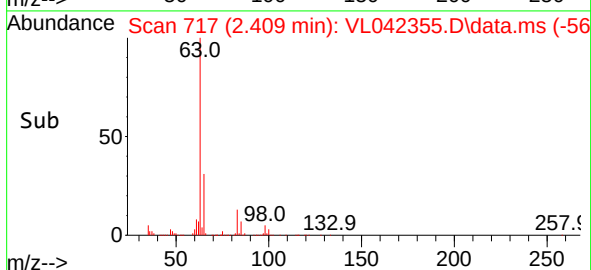
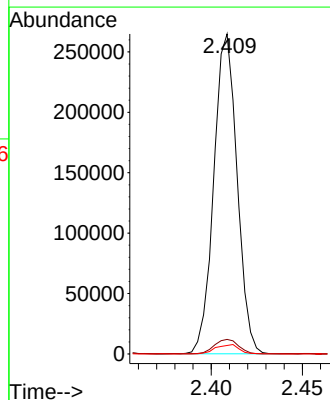
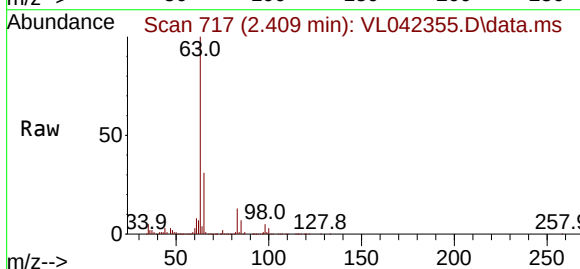
Tgt Ion: 63 Resp: 235466

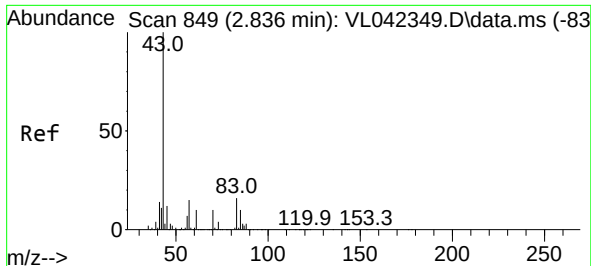
Ion Ratio Lower Upper

63 100

98 4.5 2.3 6.8

100 2.6 1.6 4.8



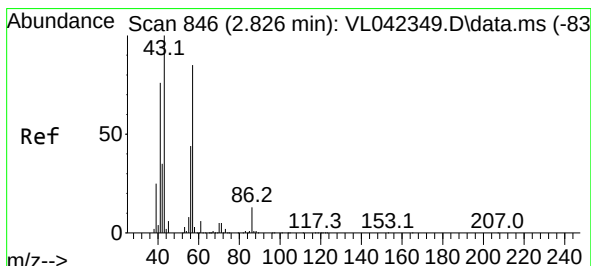
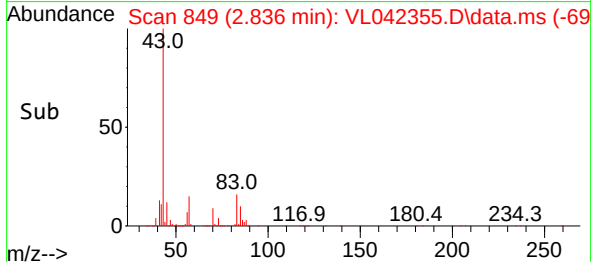
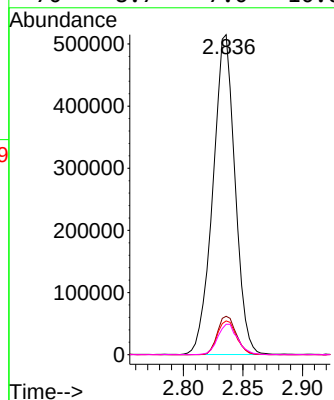
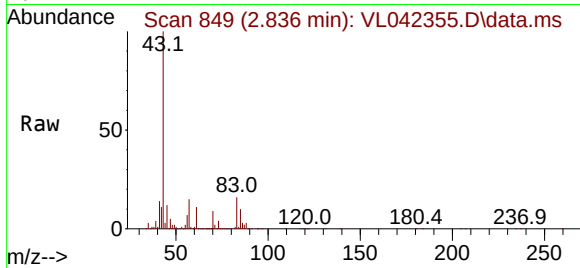


#25
Ethyl Acetate
Concen: 14.166 ppbv
RT: 2.836 min Scan# 849
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 43 Resp: 663644

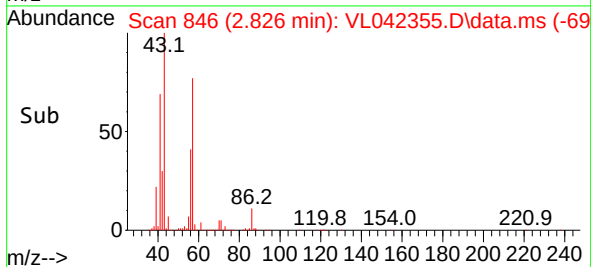
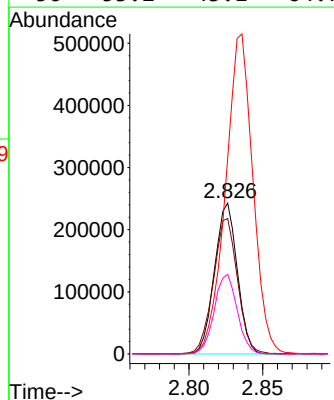
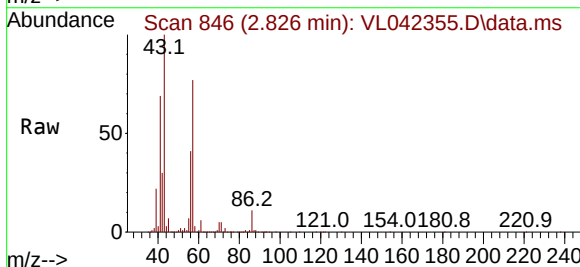
Ion	Ratio	Lower	Upper
43	100		
45	10.4	8.3	12.5
61	9.2	7.3	10.9
70	8.7	7.0	10.6

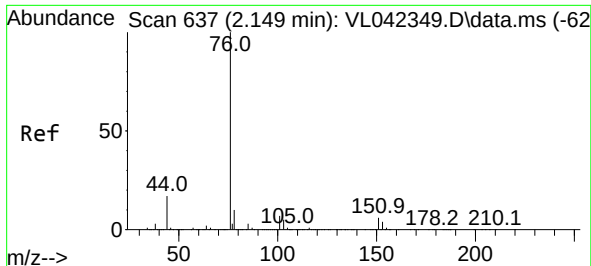


#26
Hexane
Concen: 13.765 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

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

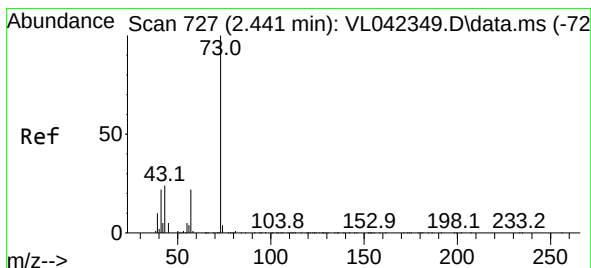
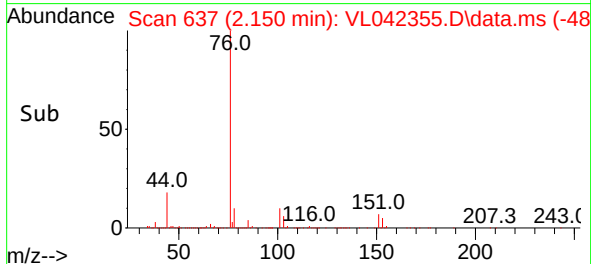
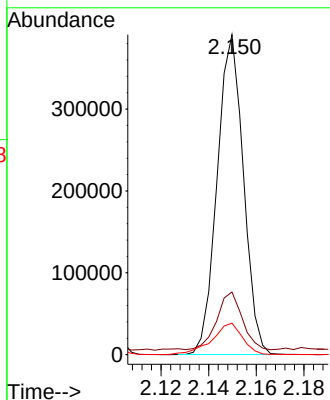
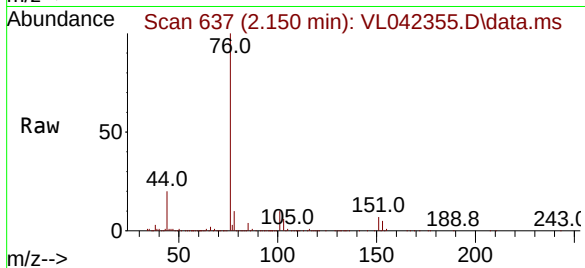




#27
Carbon Disulfide
Concen: 14.734 ppbv
RT: 2.150 min Scan# 61
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

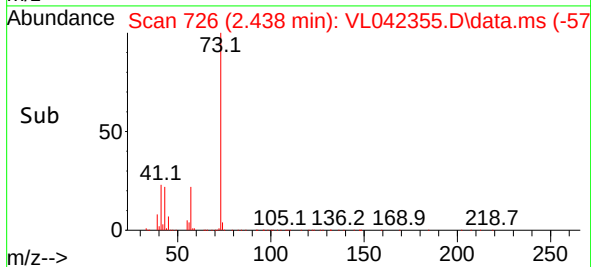
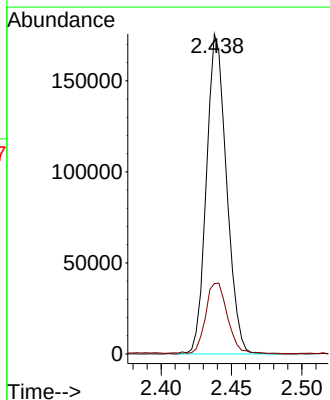
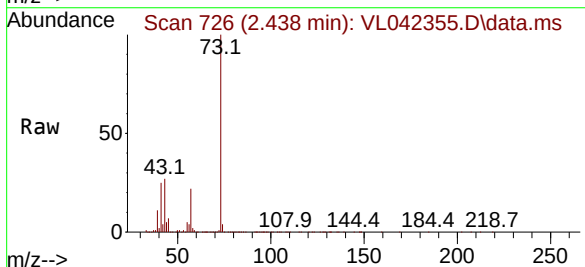
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

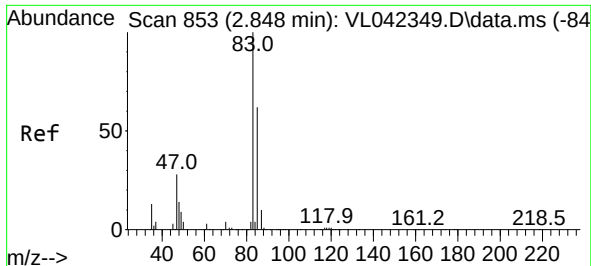
Tgt Ion: 76 Resp: 299098
Ion Ratio Lower Upper
76 100
44 17.3 15.5 23.3
78 11.4 9.3 13.9



#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 :

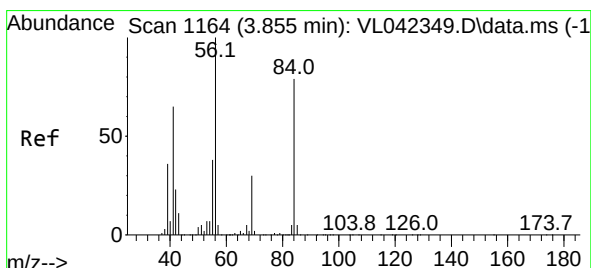
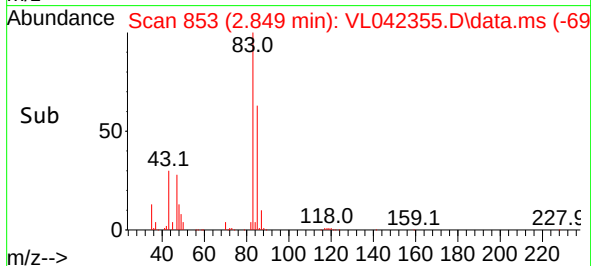
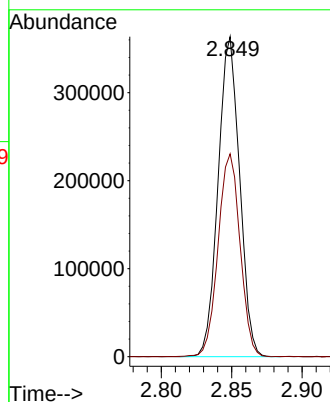
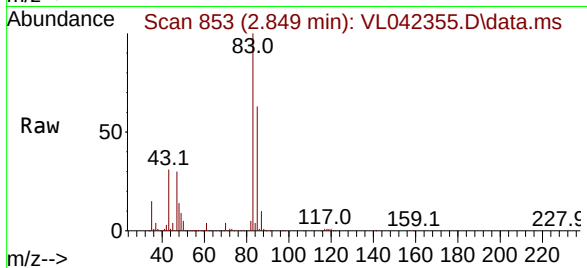
VSTDIC015

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

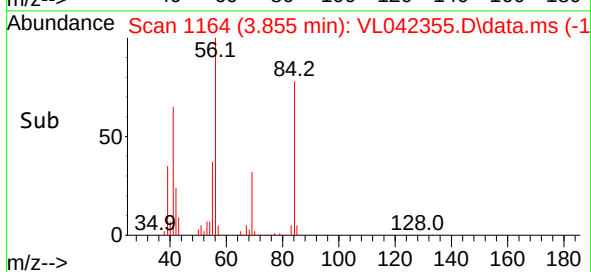
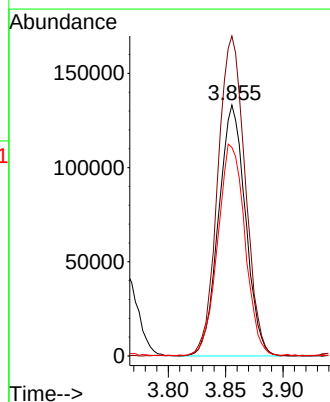
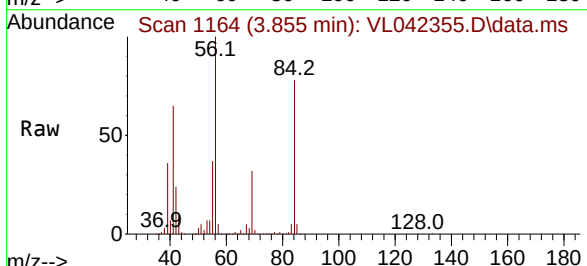
Tgt Ion: 84 Resp: 217375

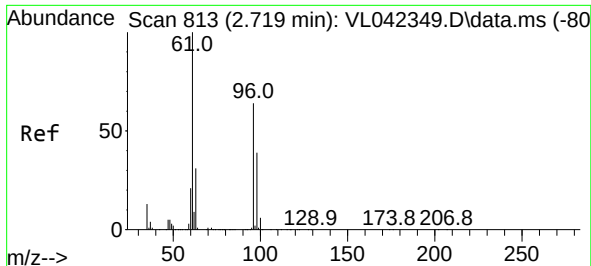
Ion Ratio Lower Upper

84 100

56 129.4 101.0 151.4

41 85.3 67.4 101.0

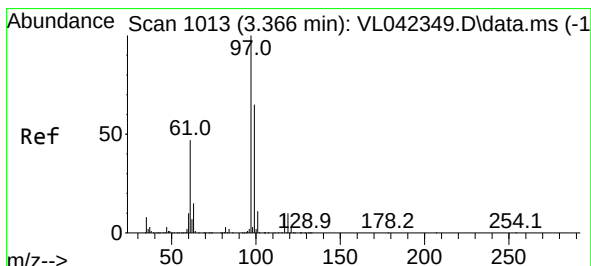
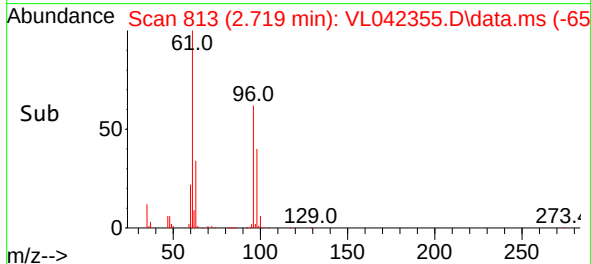
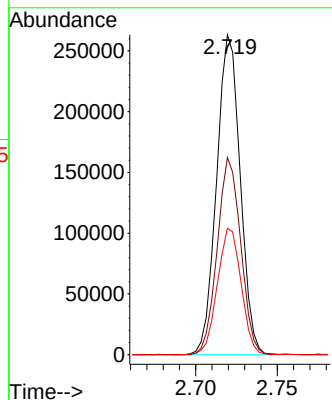
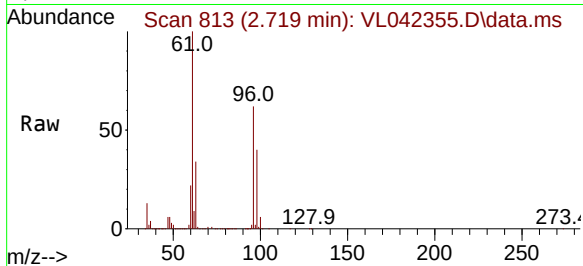




#31
 cis-1,2-Dichloroethene
 Concen: 14.700 ppbv
 RT: 2.719 min Scan# 813
 Delta R.T. 0.000 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54

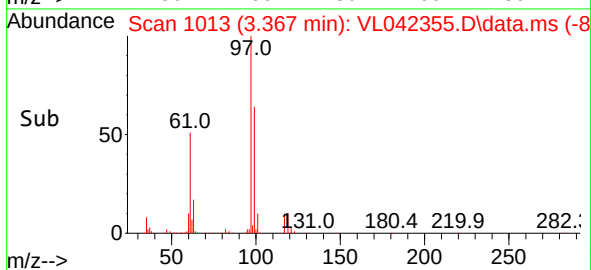
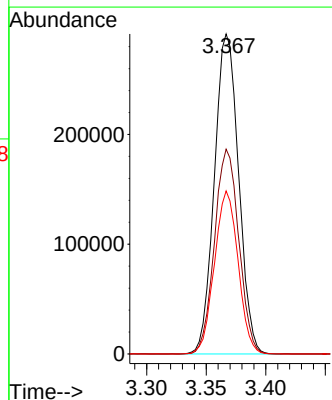
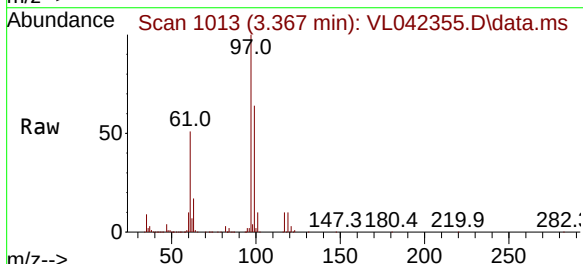
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

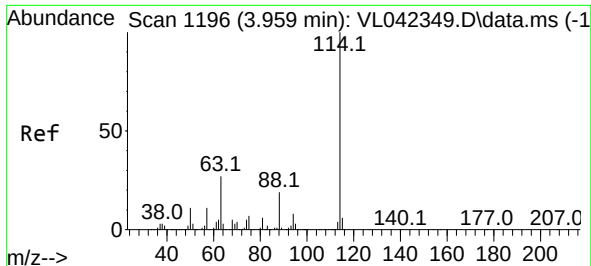
Tgt Ion: 61 Resp: 264972
 Ion Ratio Lower Upper
 61 100
 96 61.6 50.8 76.2
 98 39.5 30.9 46.3



#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

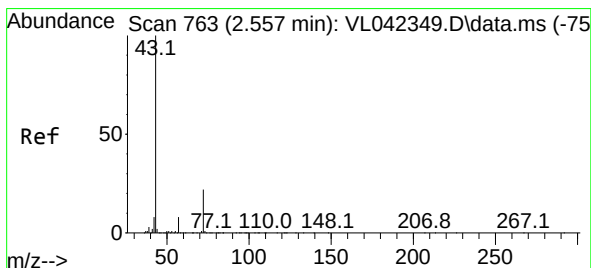
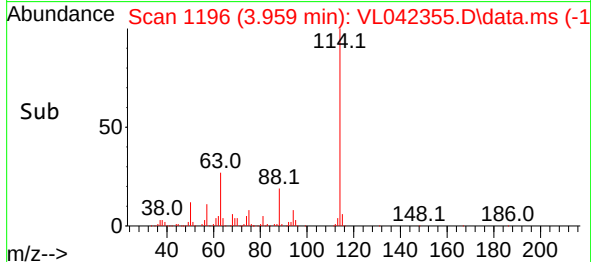
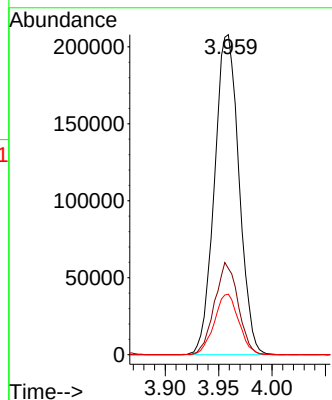
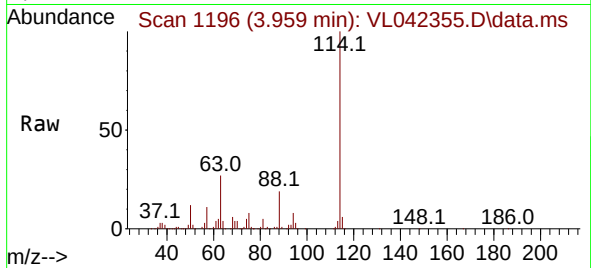




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.959 min Scan# 1196
 Delta R.T. 0.000 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54

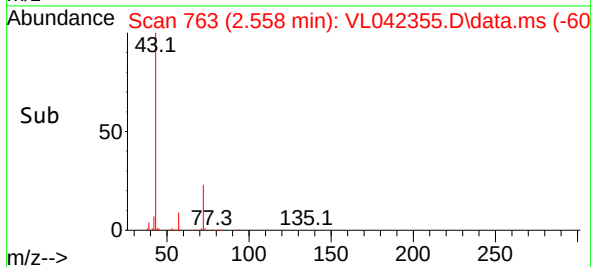
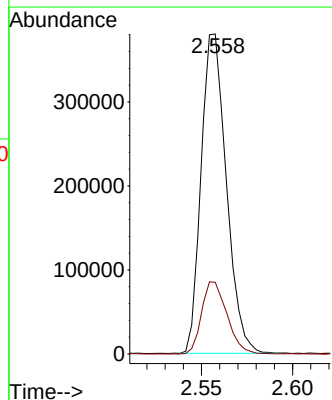
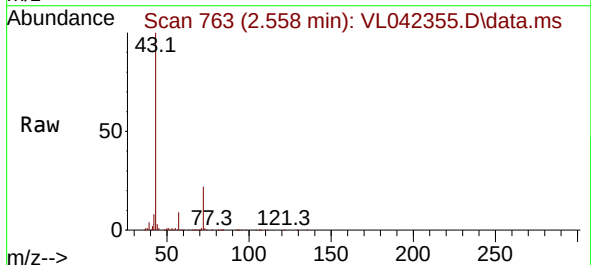
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC015

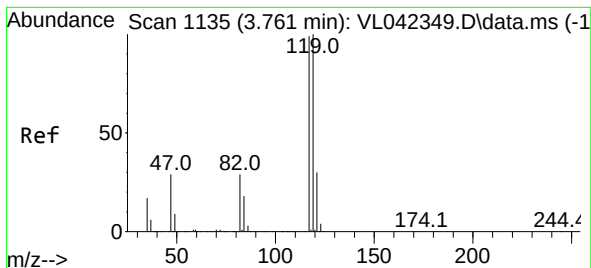
Tgt Ion:114 Resp: 332080
 Ion Ratio Lower Upper
 114 100
 63 27.7 21.8 32.6
 88 18.9 15.5 23.3



#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

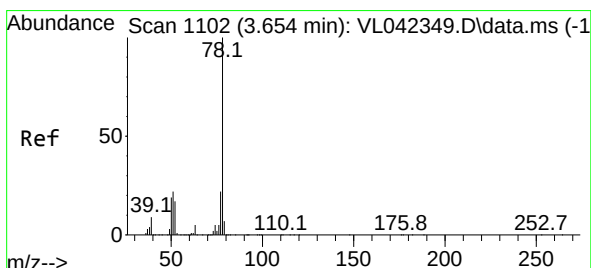
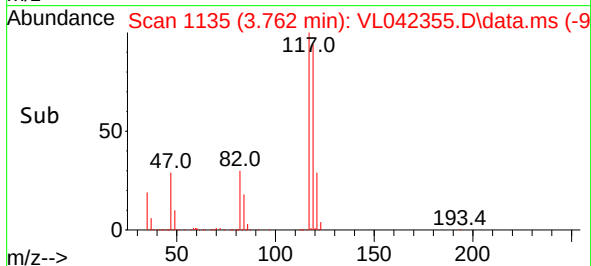
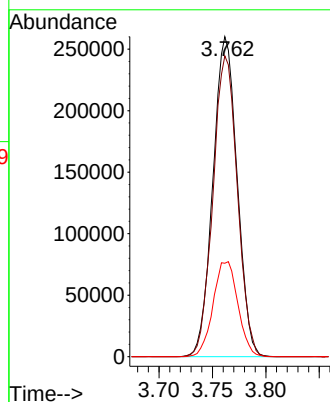
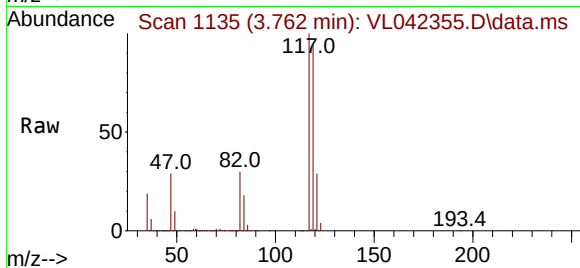
Tgt Ion:117 Resp: 409916

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

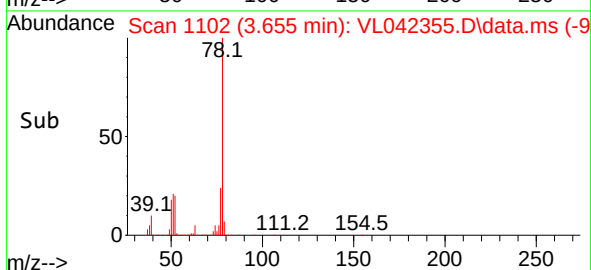
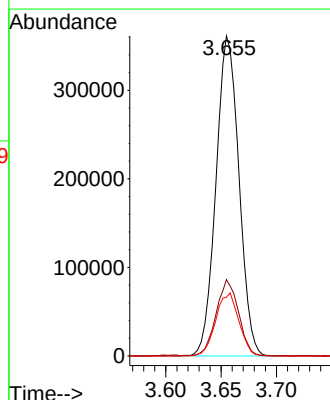
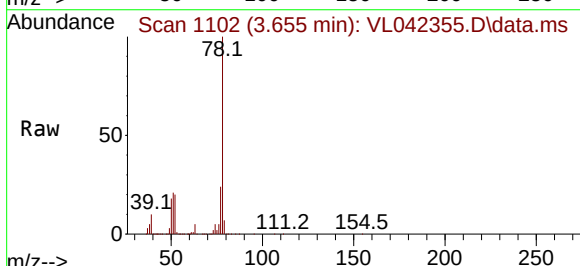
Tgt Ion: 78 Resp: 522156

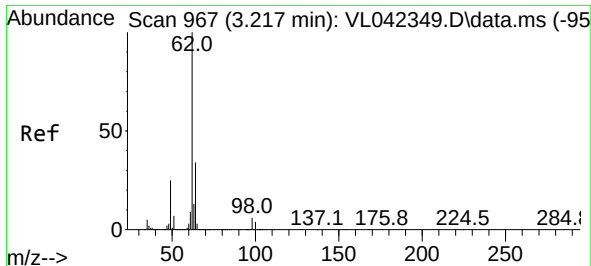
Ion Ratio Lower Upper

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 :

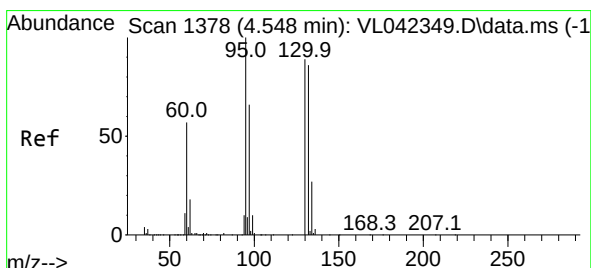
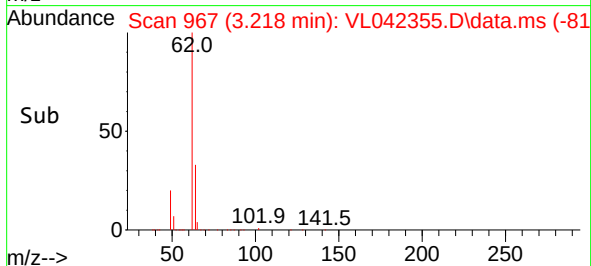
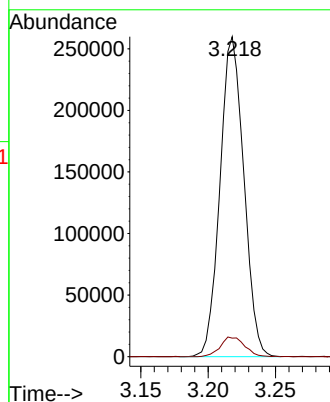
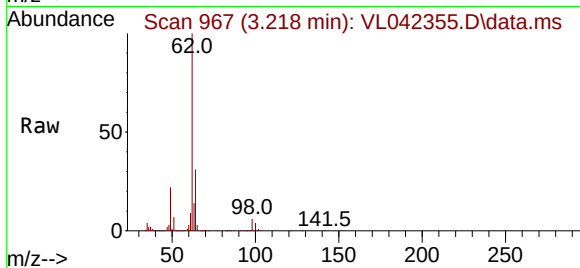
VSTDIC015

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

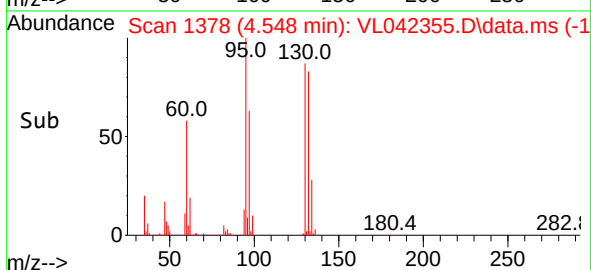
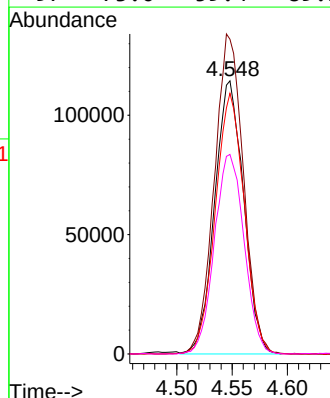
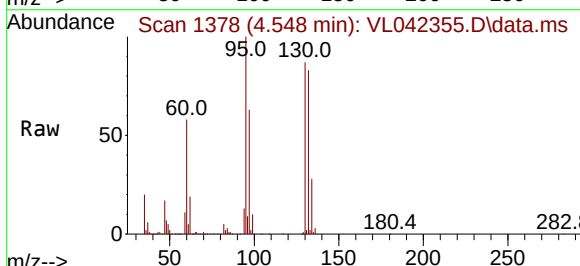
Ion Ratio Lower Upper

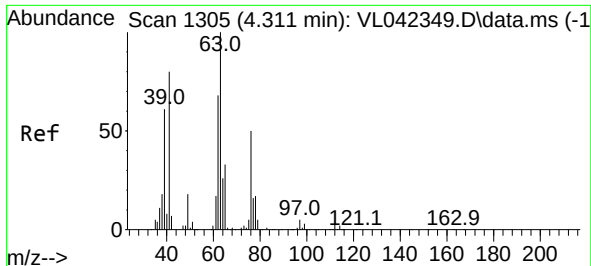
130 100

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

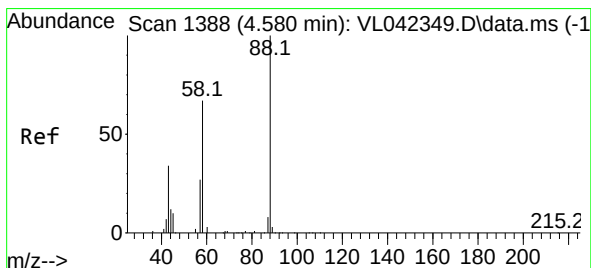
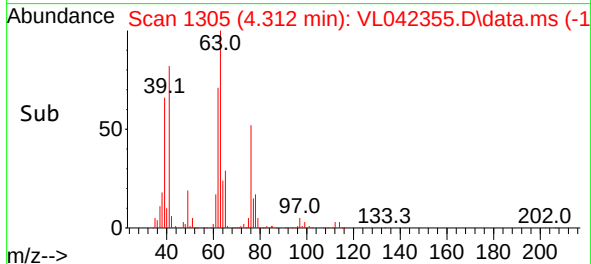
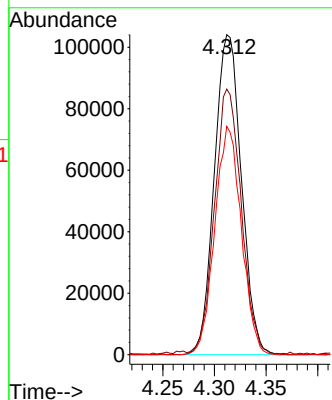
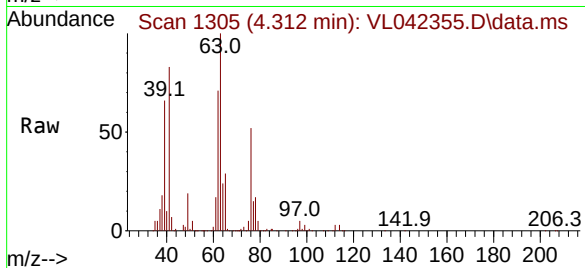
Tgt Ion: 63 Resp: 189697

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

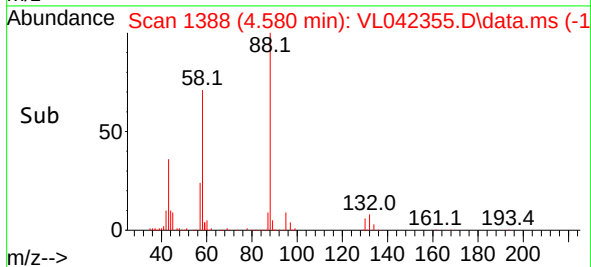
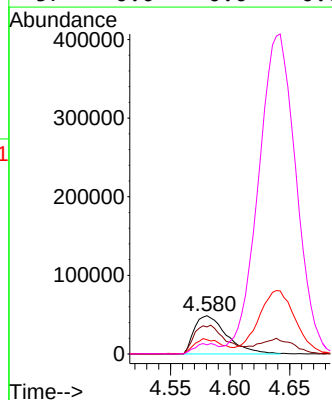
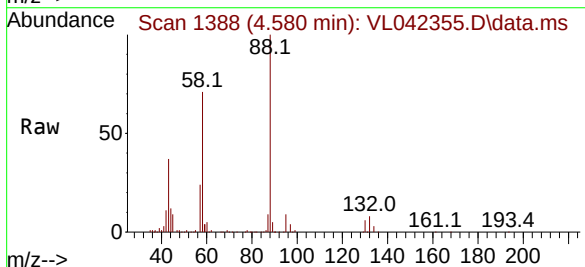
Ion Ratio Lower Upper

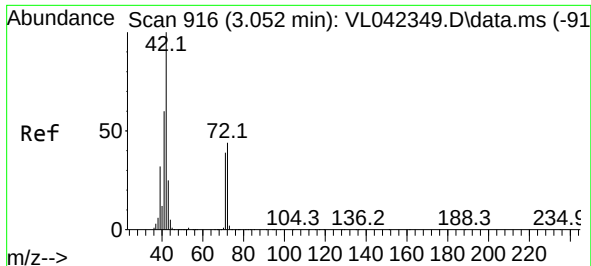
88 100

58 75.2 61.4 92.0

43 36.8 23.2 34.8#

57 0.0 0.0 0.0

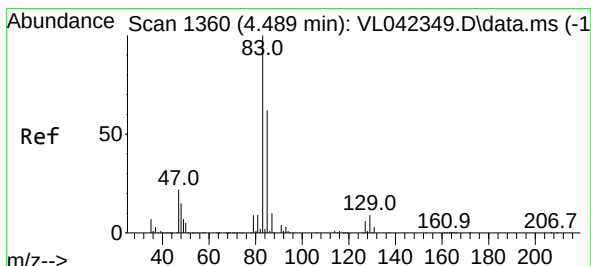
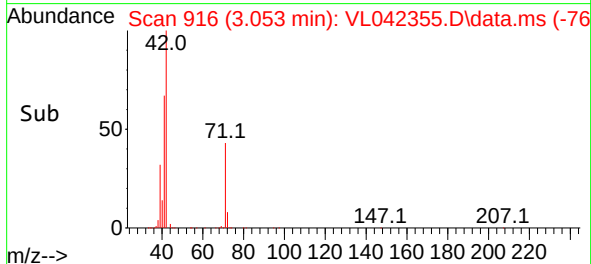
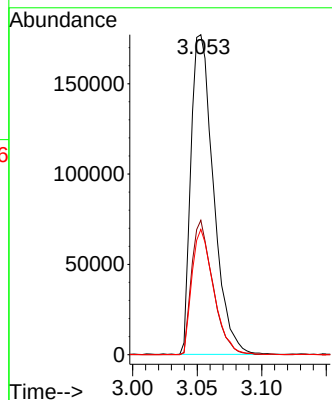
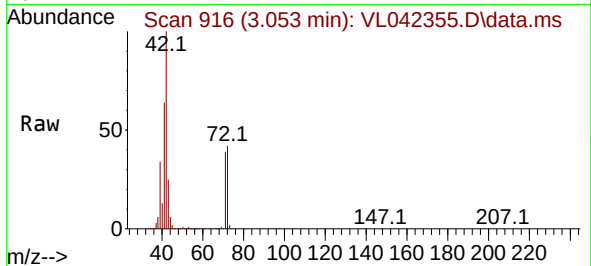




#41
Tetrahydrofuran
Concen: 14.166 ppbv
RT: 3.053 min Scan# 916
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

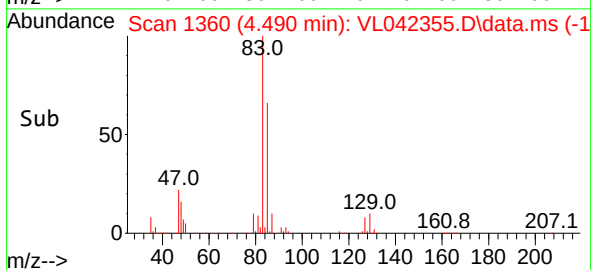
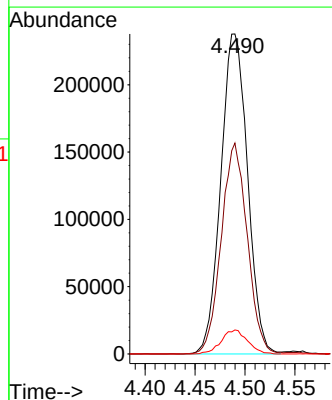
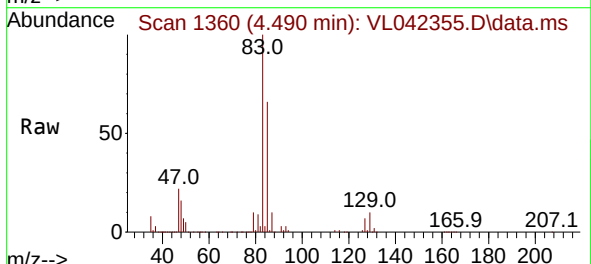
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

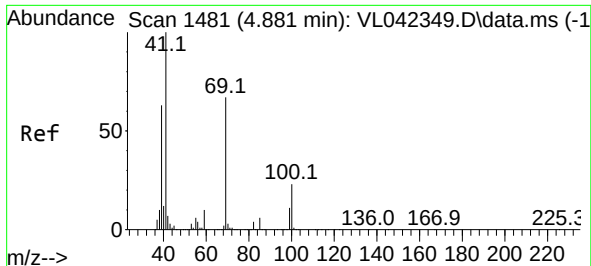
Tgt Ion: 42 Resp: 214949
Ion Ratio Lower Upper
42 100
72 39.7 32.3 48.5
71 37.9 31.4 47.2



#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

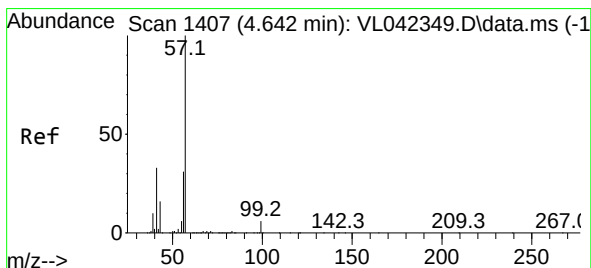
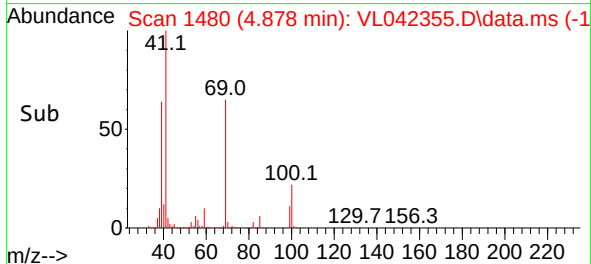
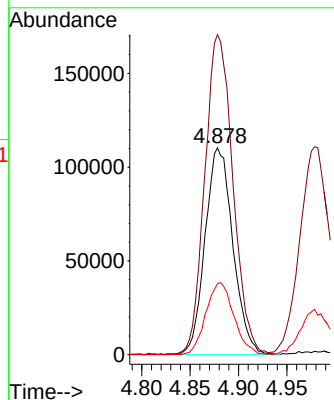
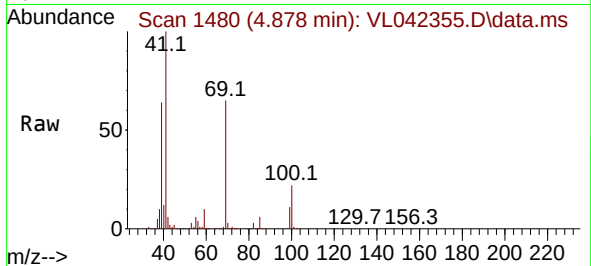




#43
Methyl Methacrylate
Concen: 13.670 ppbv
RT: 4.878 min Scan# 1480
Delta R.T. -0.003 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

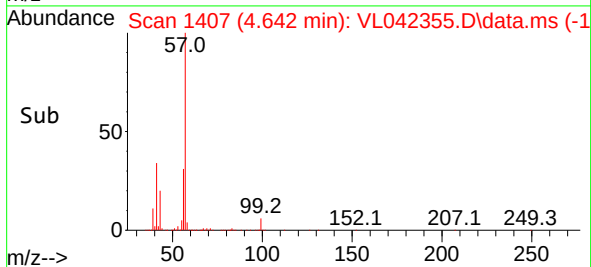
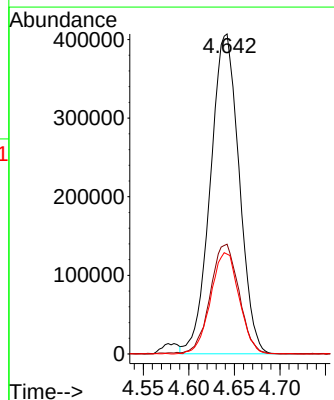
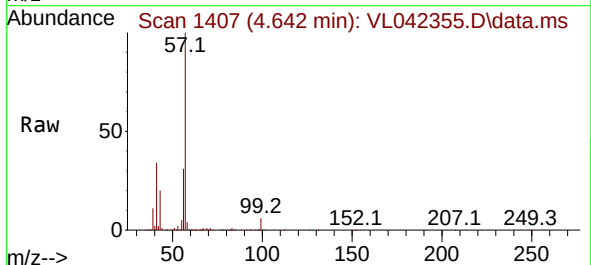
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

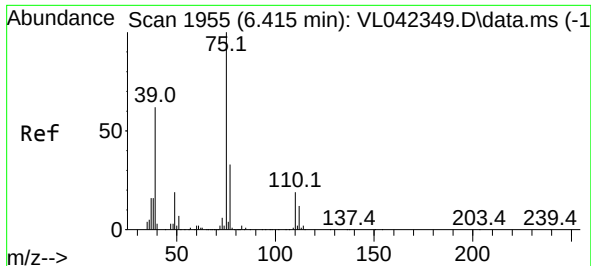
Tgt Ion: 69 Resp: 219757
Ion Ratio Lower Upper
69 100
41 156.6 118.6 177.8
100 35.2 28.2 42.2



#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 :

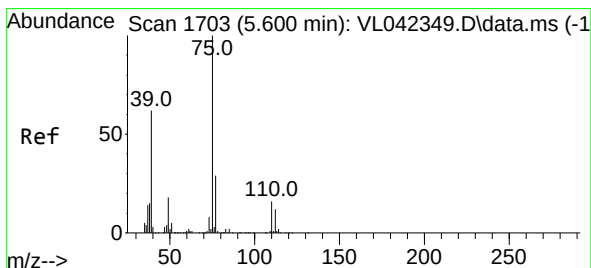
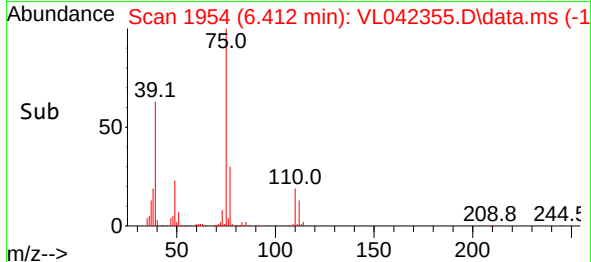
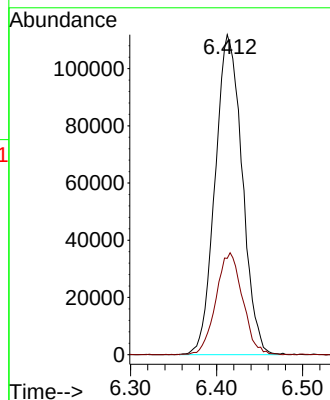
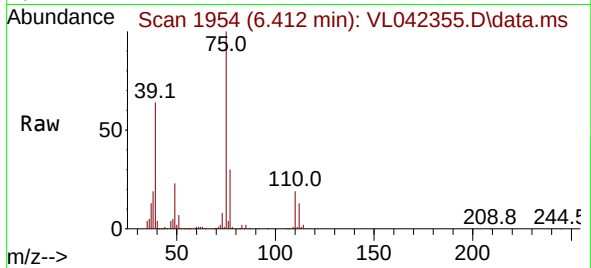
VSTDIC015

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

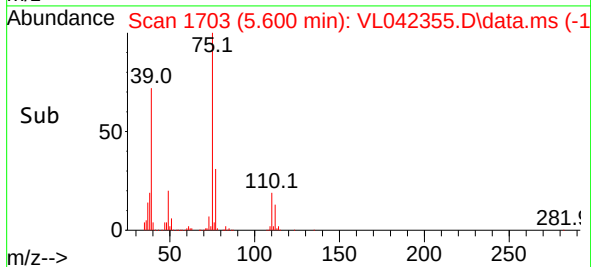
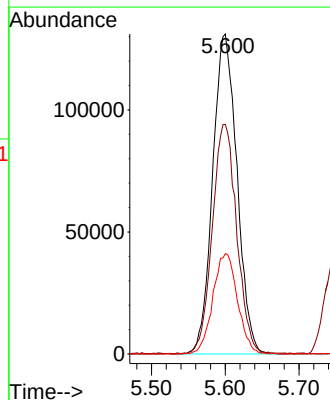
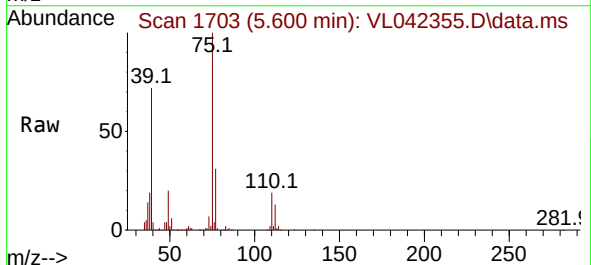
Tgt Ion: 75 Resp: 300145

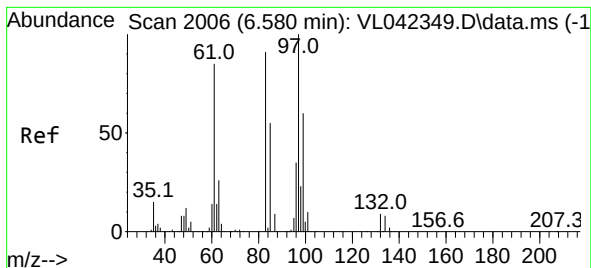
Ion Ratio Lower Upper

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

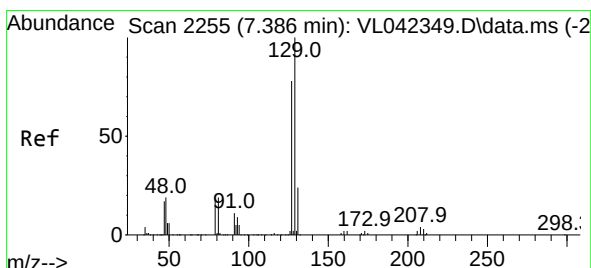
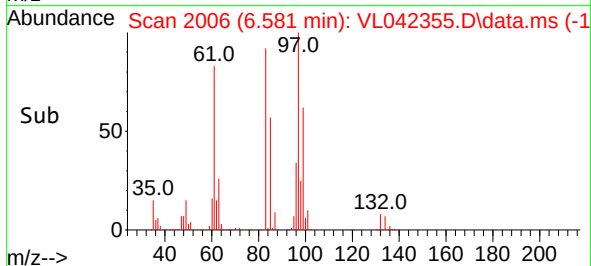
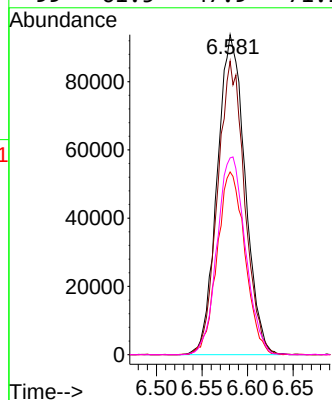
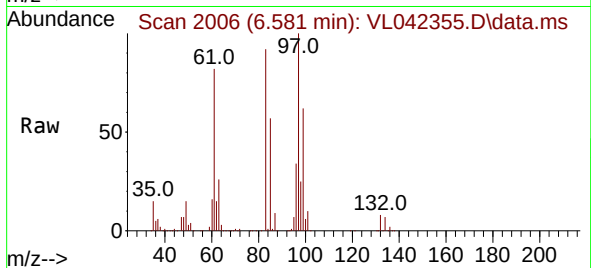
Ion Ratio Lower Upper

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

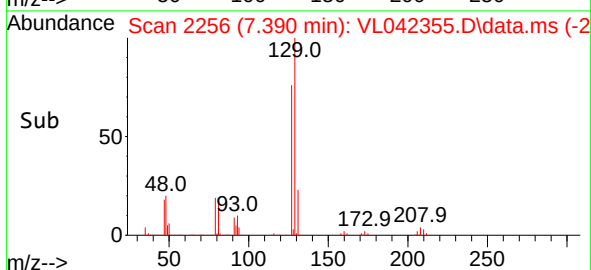
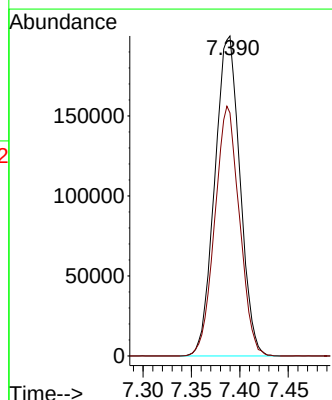
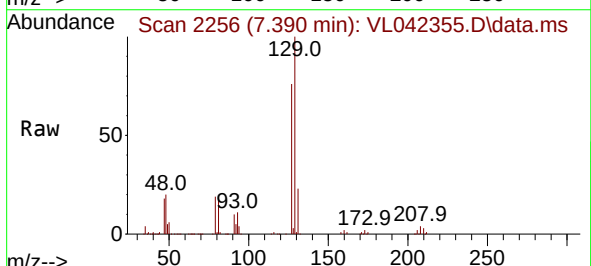
Acq: 17 Apr 2025 12:54

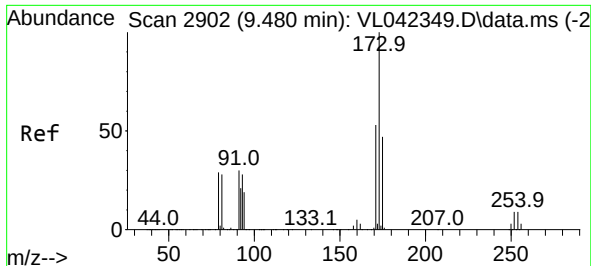
Tgt Ion: 129 Resp: 362887

Ion Ratio Lower Upper

129 100

127 76.3 39.1 117.3



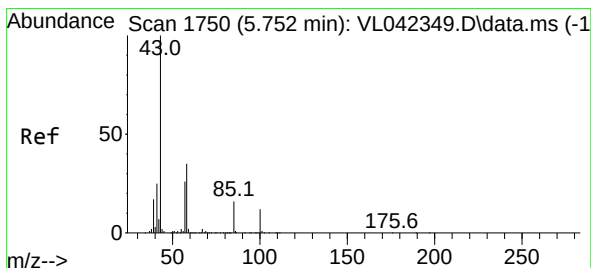
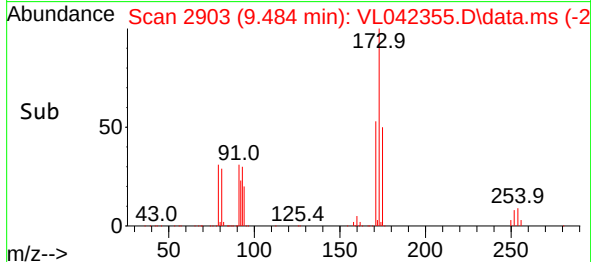
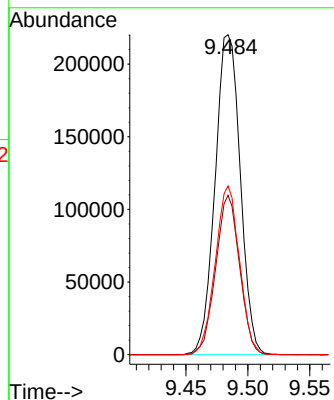
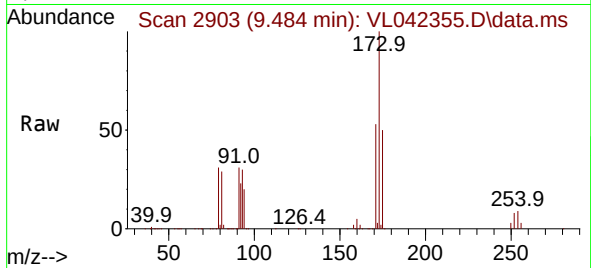


#49
Bromoform
Concen: 14.865 ppbv
RT: 9.484 min Scan# 2902
Delta R.T. 0.004 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion:173 Resp: 312282

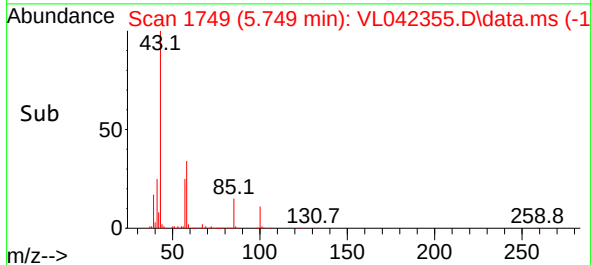
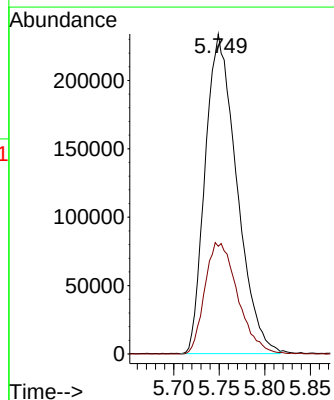
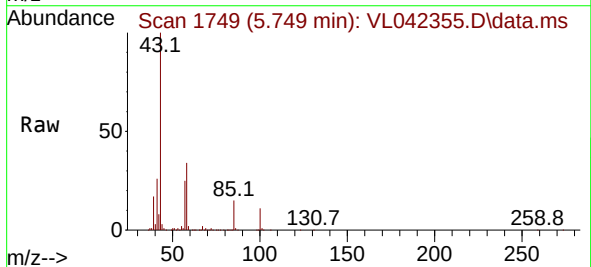
Ion	Ratio	Lower	Upper
173	100		
175	47.3	38.2	57.2
171	50.6	40.9	61.3

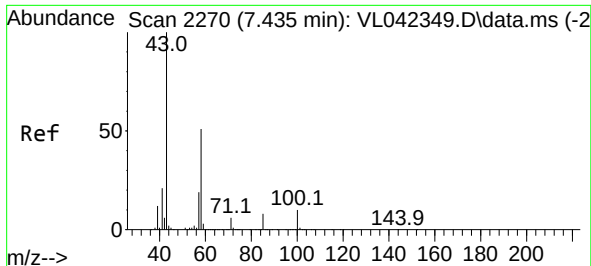


#50
4-Methyl-2-Pentanone
Concen: 12.889 ppbv
RT: 5.749 min Scan# 1749
Delta R.T. -0.003 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

Tgt Ion: 43 Resp: 563658

Ion	Ratio	Lower	Upper
43	100		
58	36.3	28.6	43.0

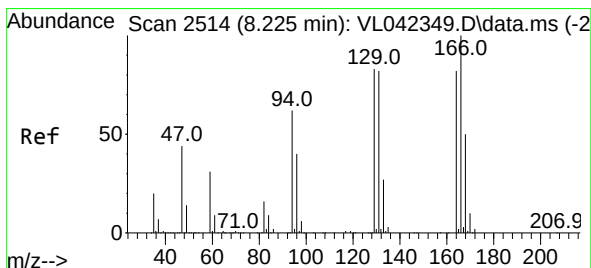
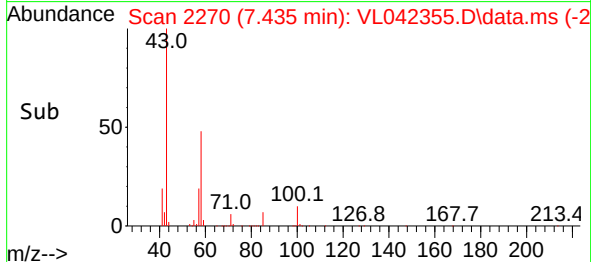
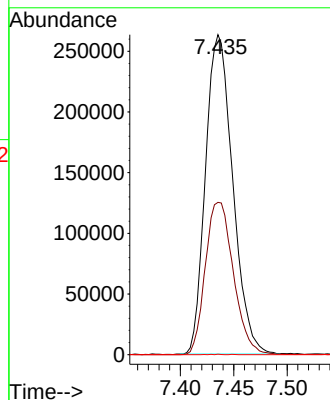
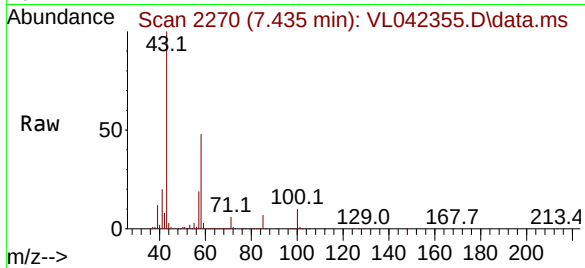




#51
2-Hexanone
Concen: 11.834 ppbv
RT: 7.435 min Scan# 211
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

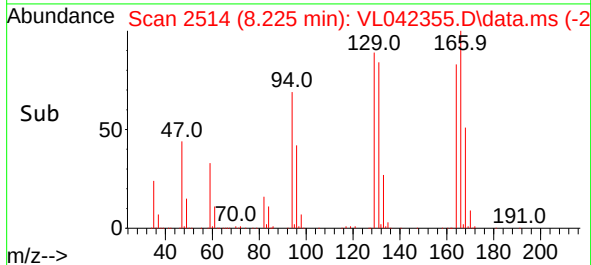
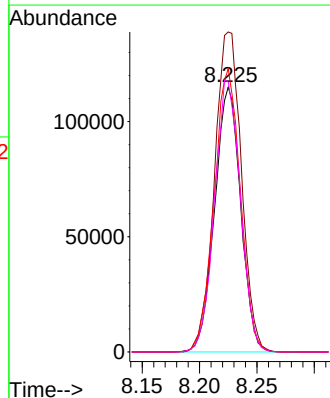
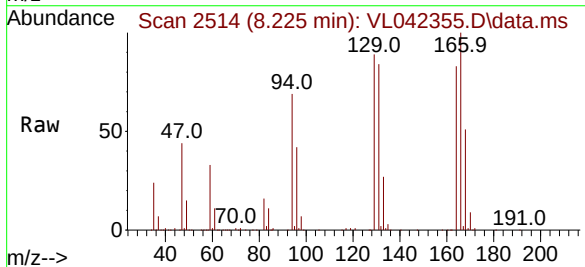
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

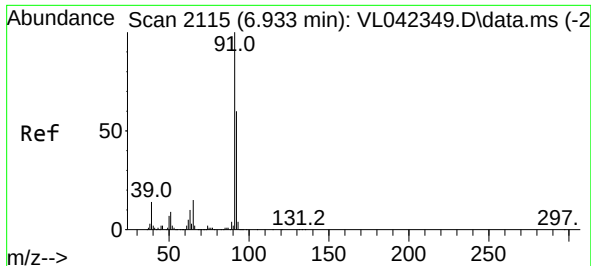
Tgt Ion: 43 Resp: 467001
Ion Ratio Lower Upper
43 100
58 49.2 40.2 60.4
98 0.0 0.1 0.1#



#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

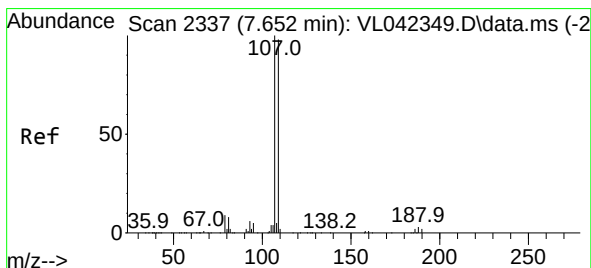
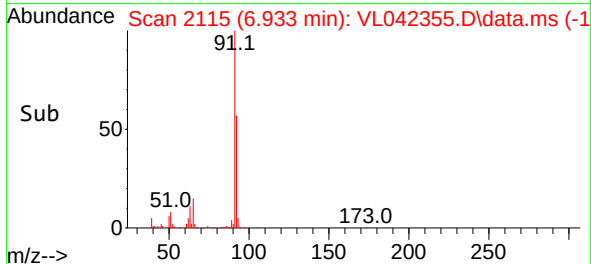
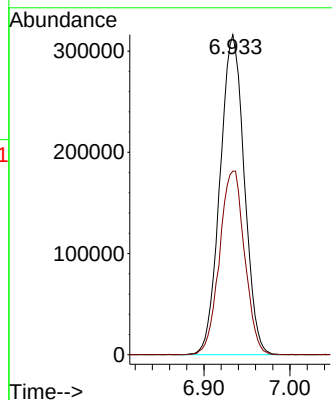
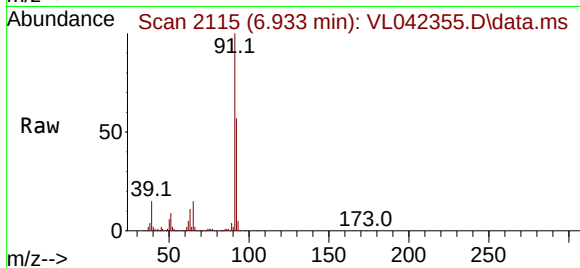




#53
Toluene
Concen: 14.411 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

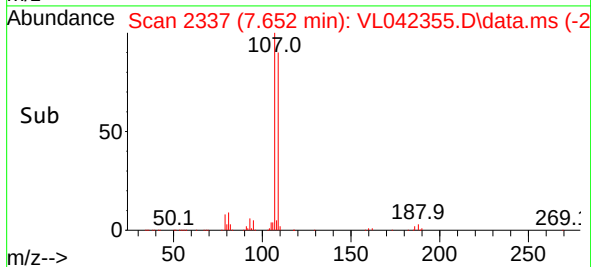
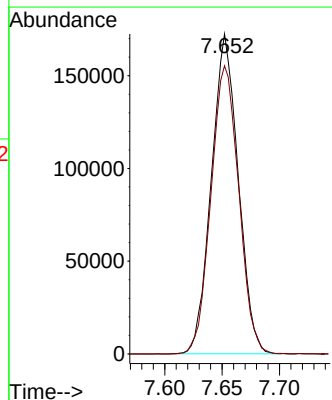
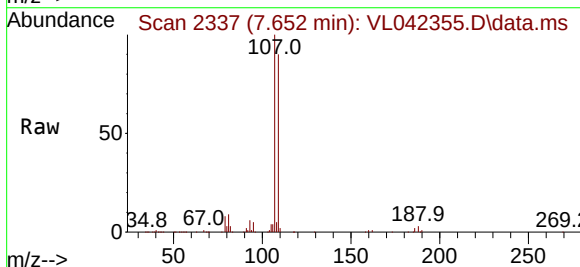
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

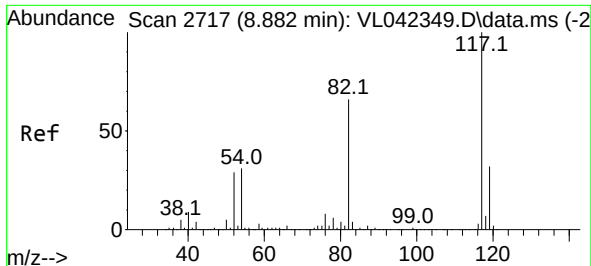
Tgt Ion: 91 Resp: 619420
Ion Ratio Lower Upper
91 100
92 59.3 48.2 72.4



#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

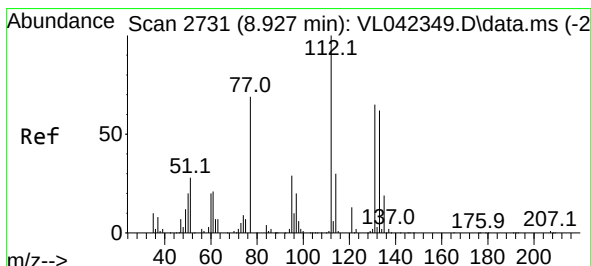
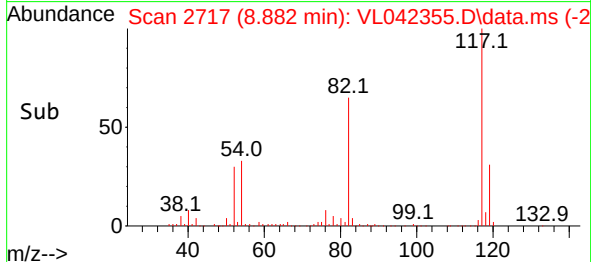
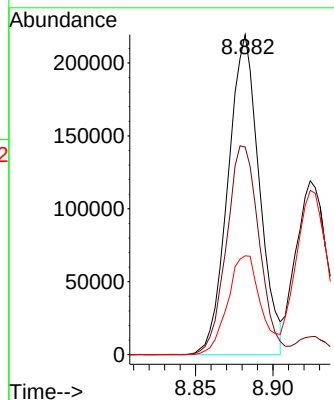
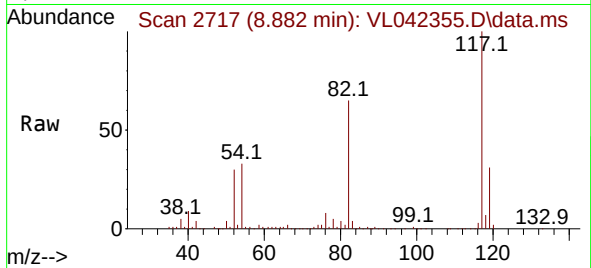




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2717
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

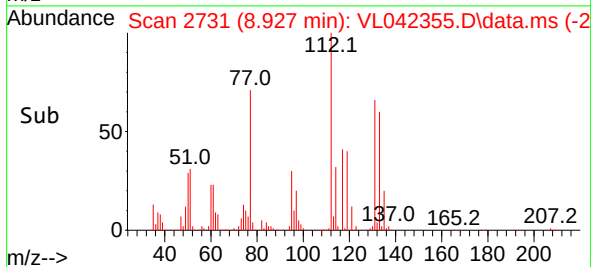
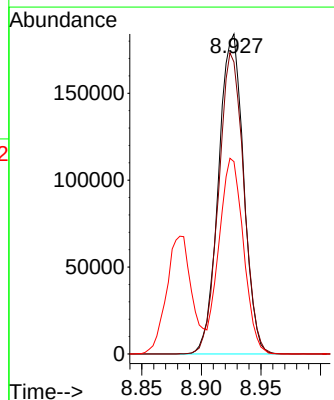
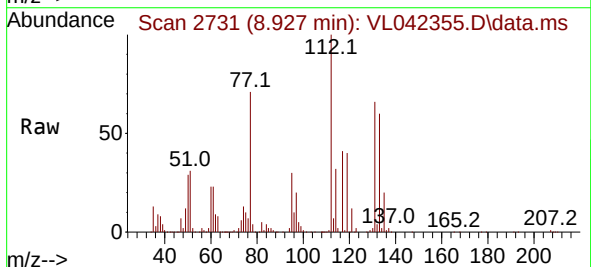
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

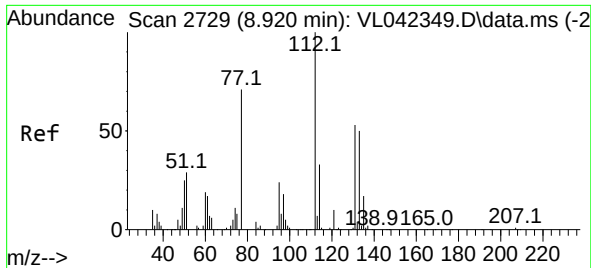
Tgt Ion:117 Resp: 308463
Ion Ratio Lower Upper
117 100
82 74.2 57.8 86.6
119 31.4 25.2 37.8



#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

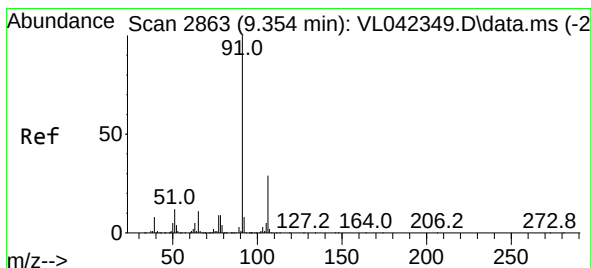
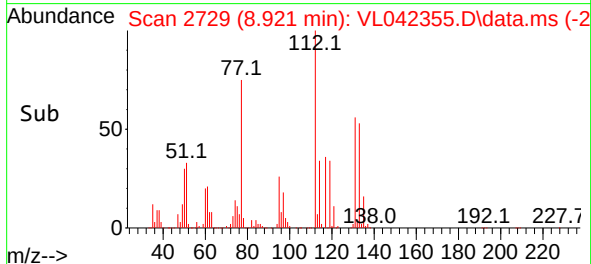
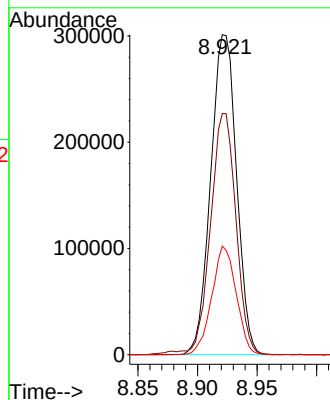
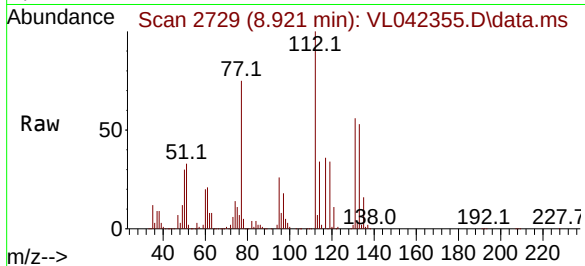




#57
Chlorobenzene
Concen: 14.151 ppbv
RT: 8.921 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

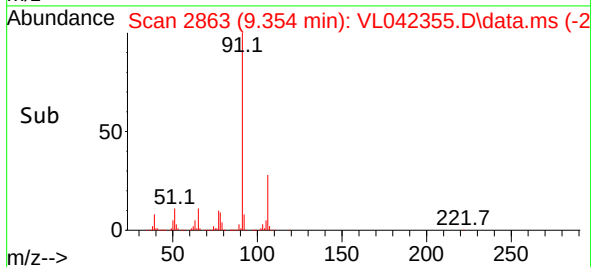
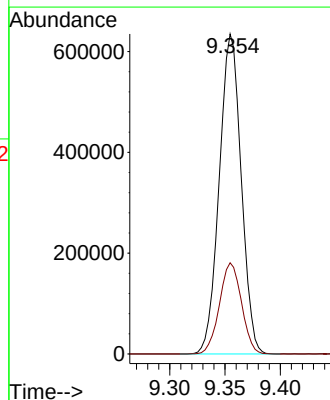
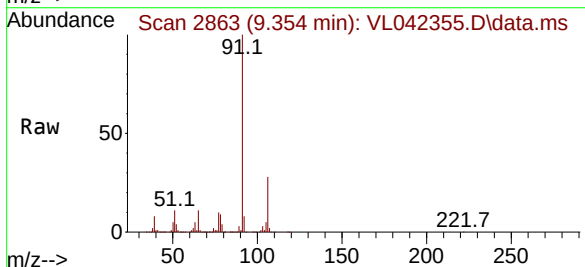
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

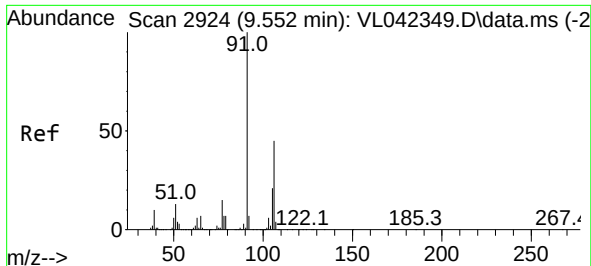
Tgt Ion:112 Resp: 454017
Ion Ratio Lower Upper
112 100
77 75.3 57.8 86.6
114 33.9 29.3 35.9



#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 :

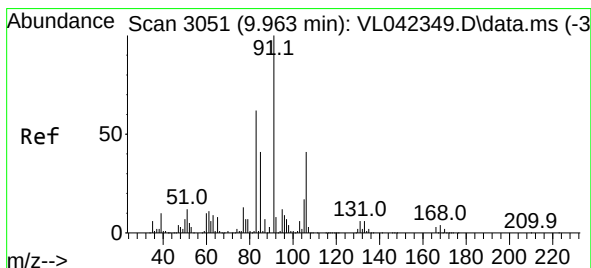
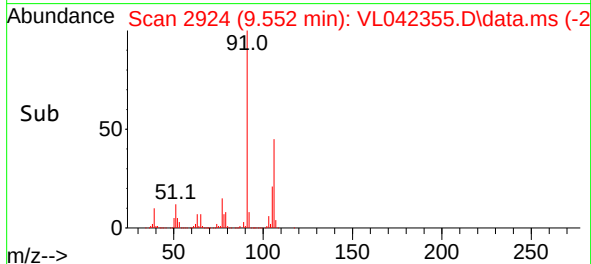
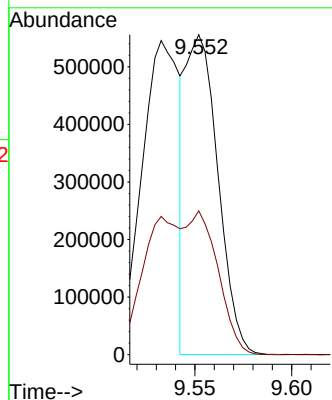
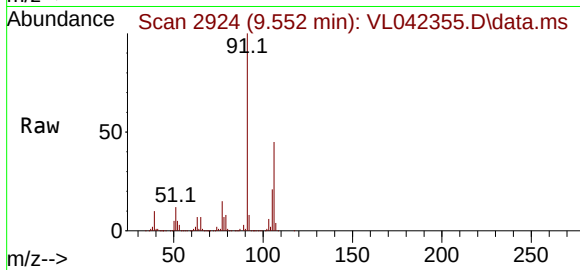
VSTDIC015

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

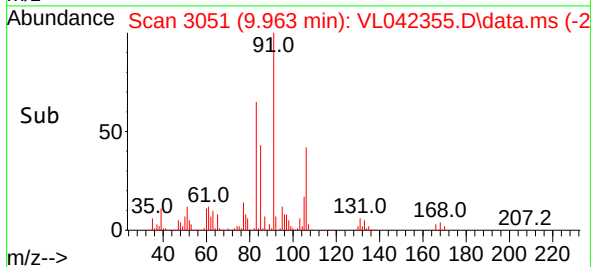
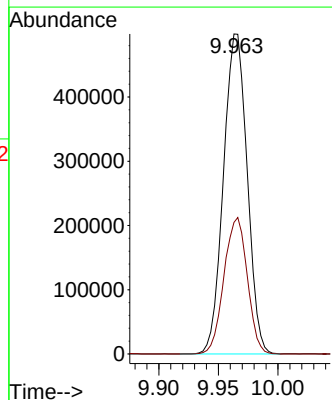
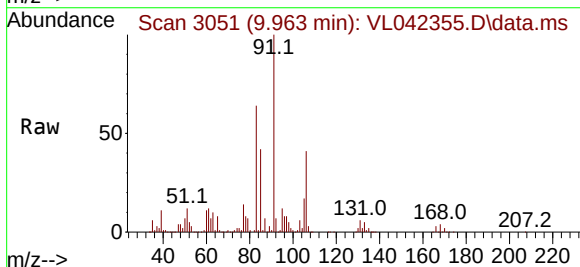
Acq: 17 Apr 2025 12:54

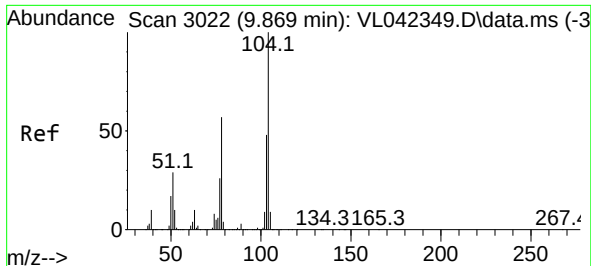
Tgt Ion: 91 Resp: 689246

Ion Ratio Lower Upper

91 100

106 41.9 21.1 63.4

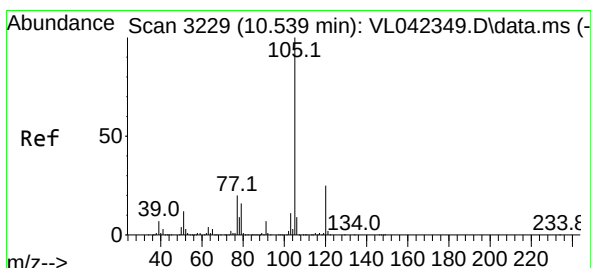
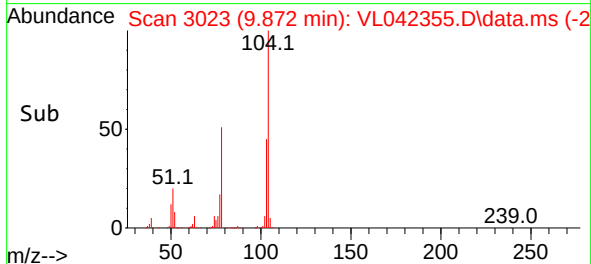
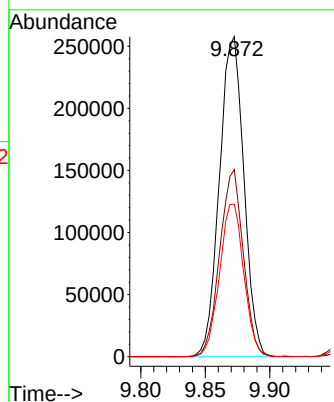
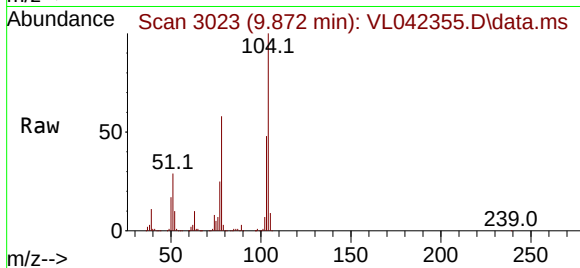




#61
Styrene
Concen: 14.347 ppbv
RT: 9.872 min Scan# 3023
Delta R.T. 0.004 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

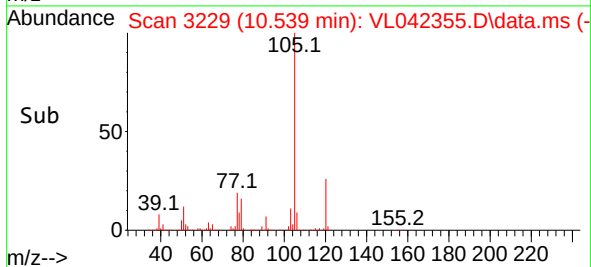
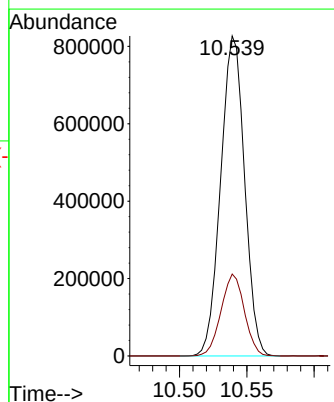
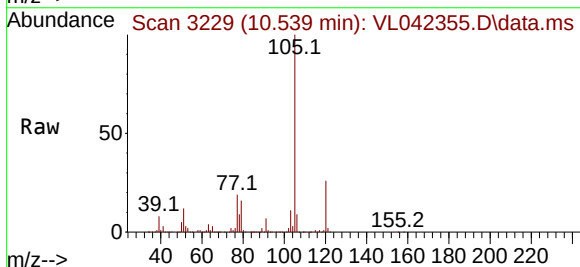
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

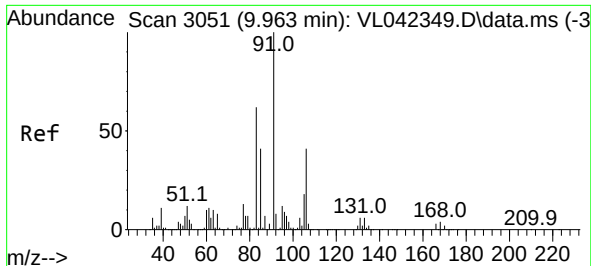
Tgt Ion:104 Resp: 339508
Ion Ratio Lower Upper
104 100
78 56.4 44.6 66.8
103 47.3 37.4 56.0



#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

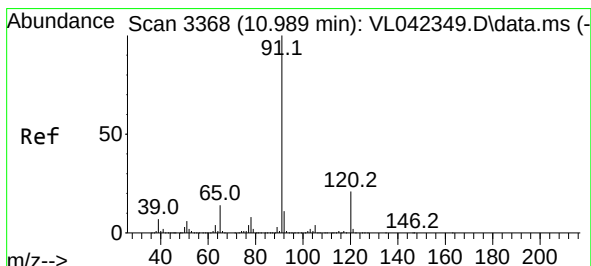
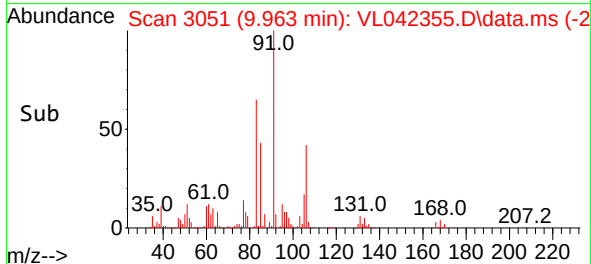
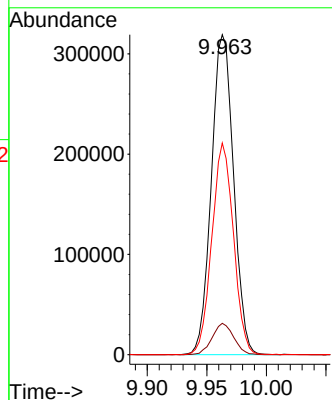
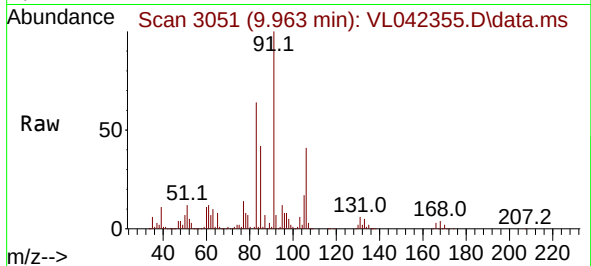




#63
1,1,2,2-Tetrachloroethane
Concen: 12.816 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

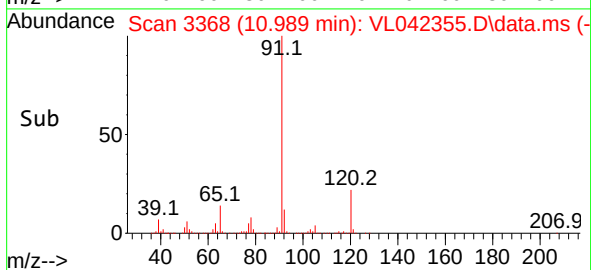
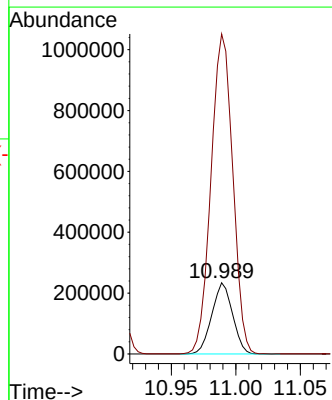
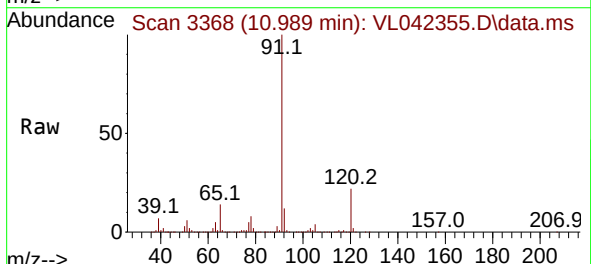
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

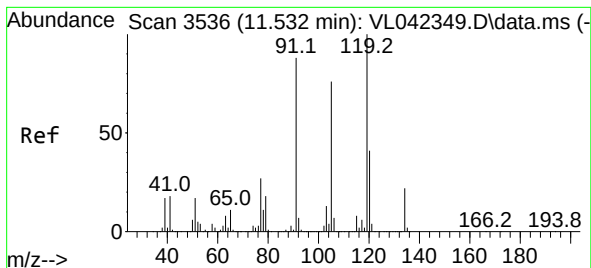
Tgt Ion: 83 Resp: 412898
Ion Ratio Lower Upper
83 100
131 9.5 4.5 13.7
85 64.5 32.4 97.0



#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

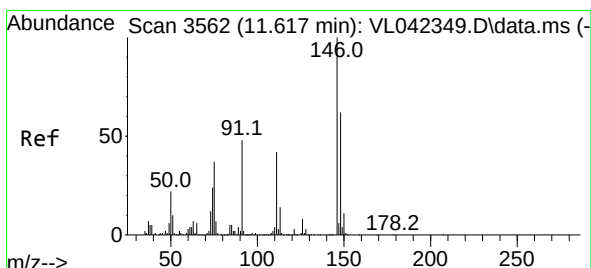
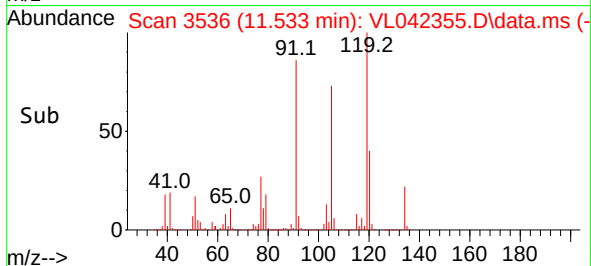
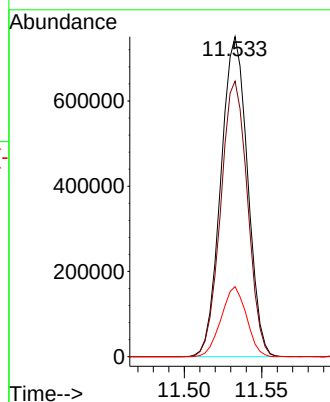
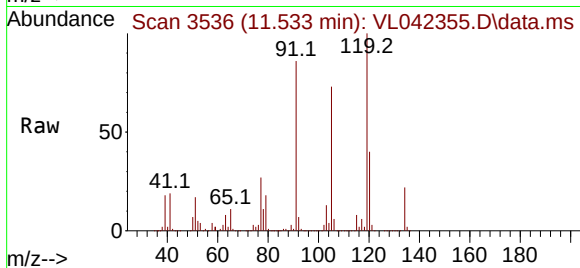
Tgt Ion:119 Resp: 899720

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

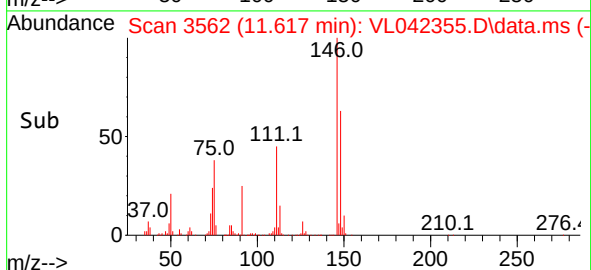
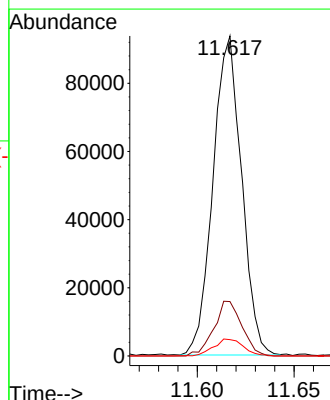
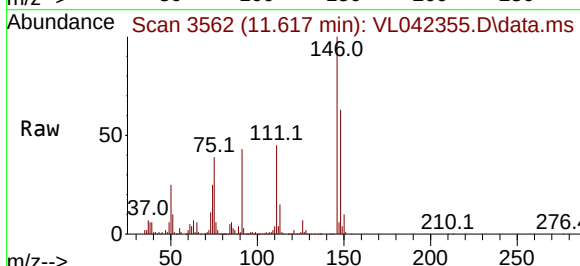
Tgt Ion: 91 Resp: 96016

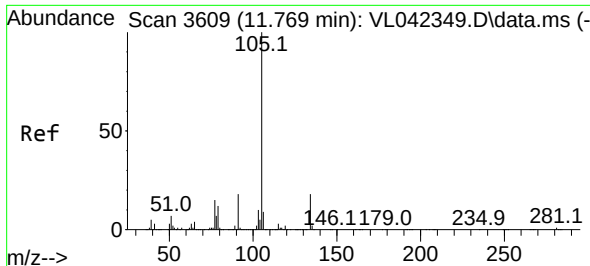
Ion Ratio Lower Upper

91 100

126 16.8 11.8 17.6

128 5.5 4.5 6.7

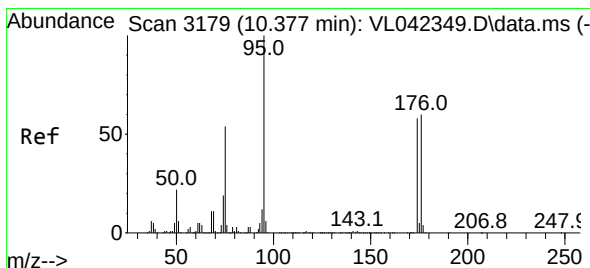
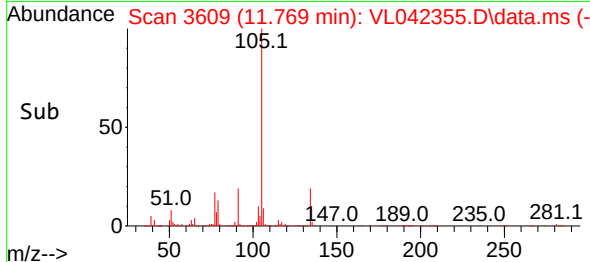
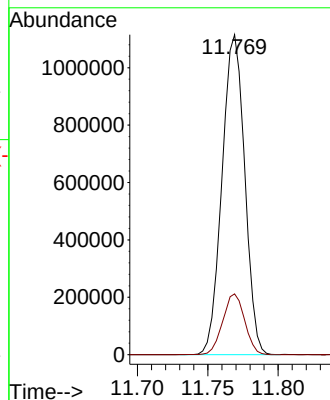
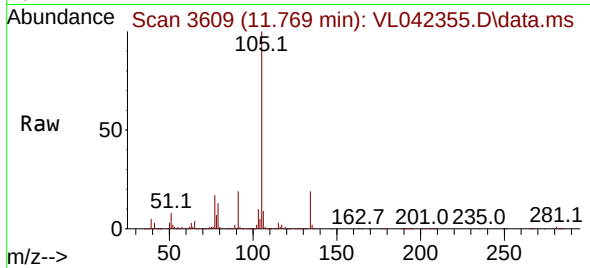




#67
 sec-Butylbenzene
 Concen: 13.468 ppbv
 RT: 11.769 min Scan# 3609
 Delta R.T. 0.000 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54

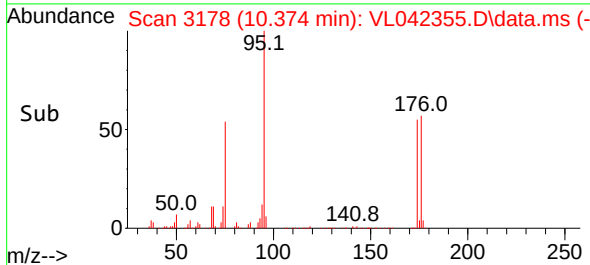
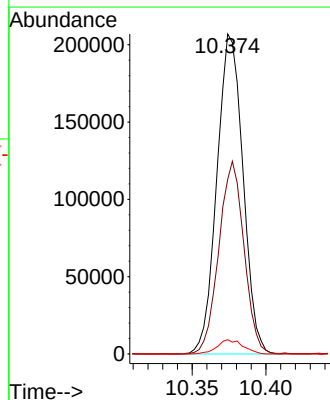
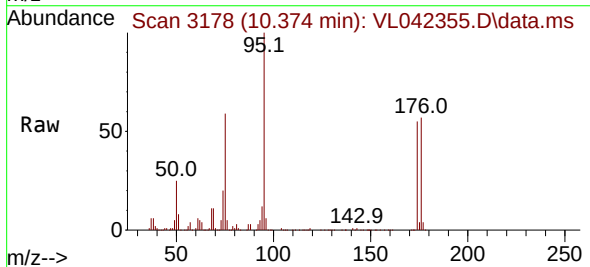
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

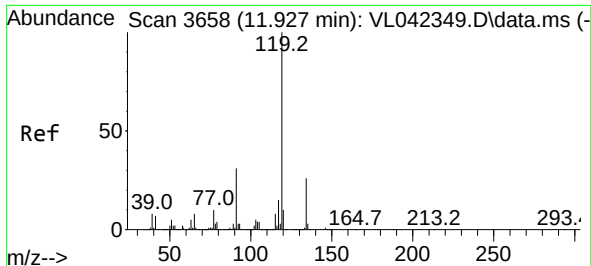
Tgt Ion:105 Resp: 1253263
 Ion Ratio Lower Upper
 105 100
 134 18.4 14.6 21.8



#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

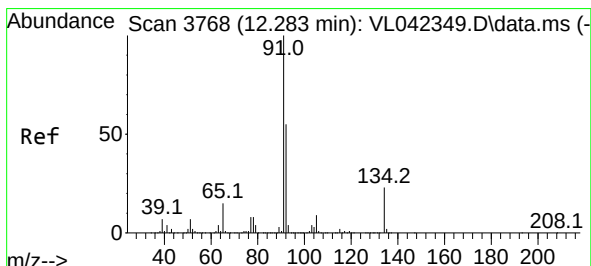
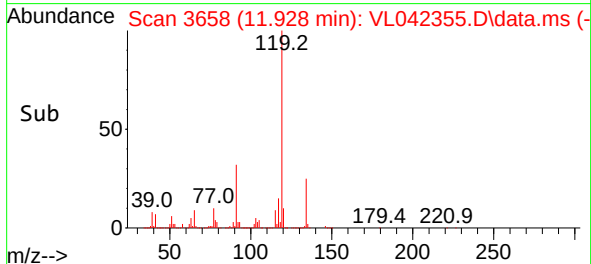
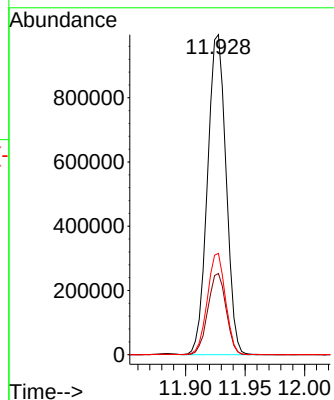
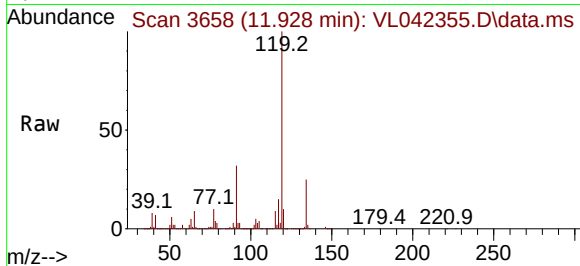




#69
 p-Isopropyltoluene
 Concen: 13.382 ppbv
 RT: 11.928 min Scan# 3658
 Delta R.T. 0.000 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54

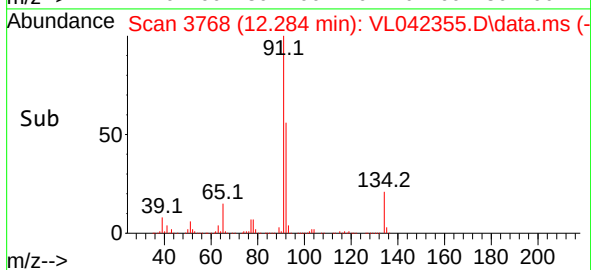
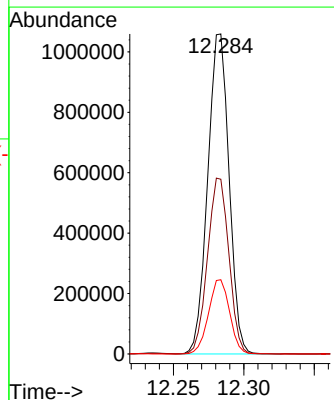
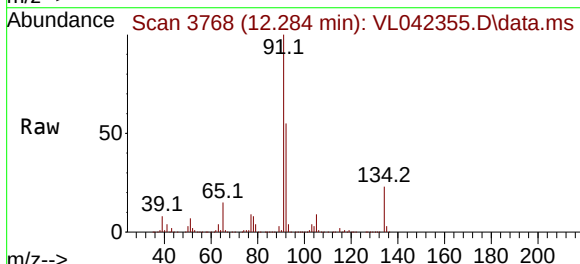
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

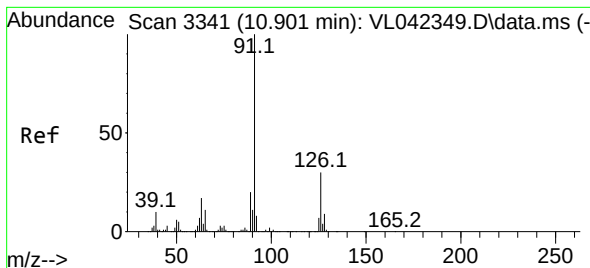
Tgt Ion:119 Resp: 1081850
 Ion Ratio Lower Upper
 119 100
 134 25.0 20.0 30.0
 91 31.1 24.4 36.6



#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

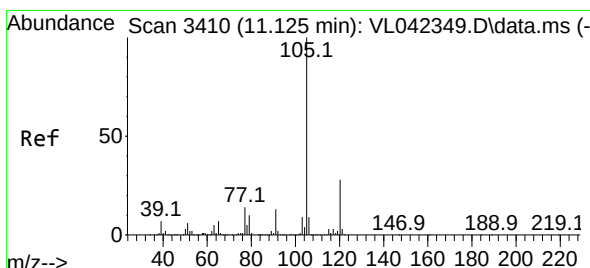
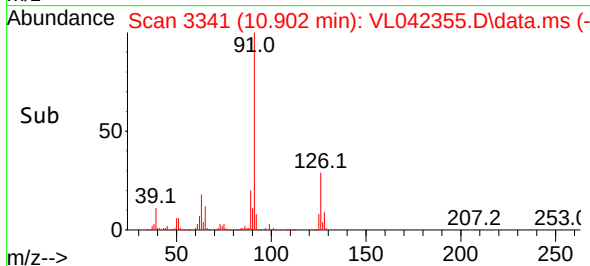
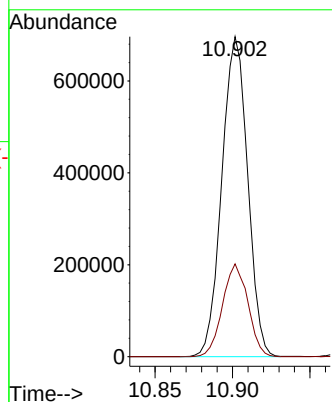
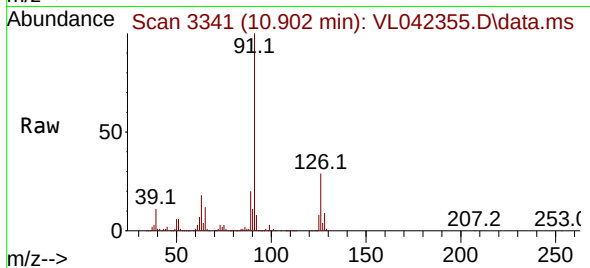




#71
2-Chlorotoluene
Concen: 14.131 ppbv
RT: 10.902 min Scan# 3341
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

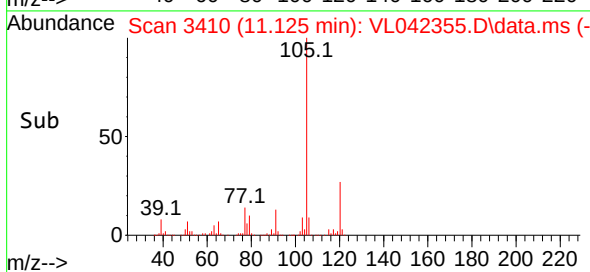
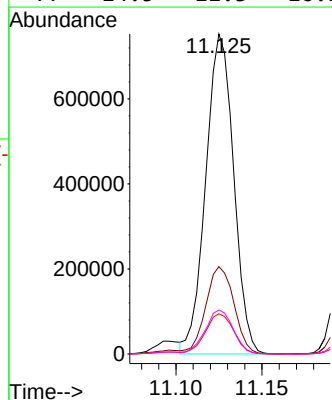
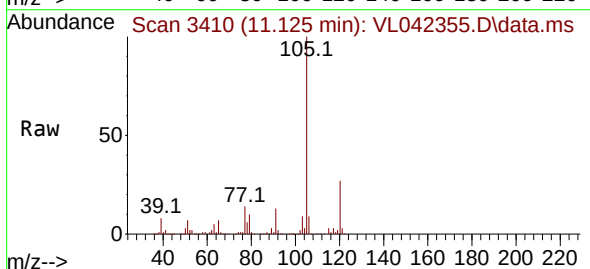
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

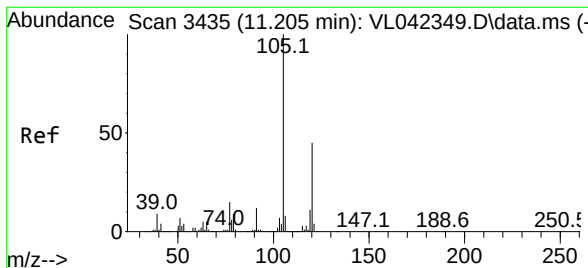
Tgt Ion: 91 Resp: 806728
Ion Ratio Lower Upper
91 100
126 28.4 11.4 45.4



#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 :

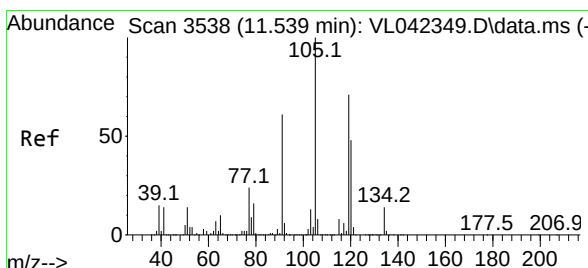
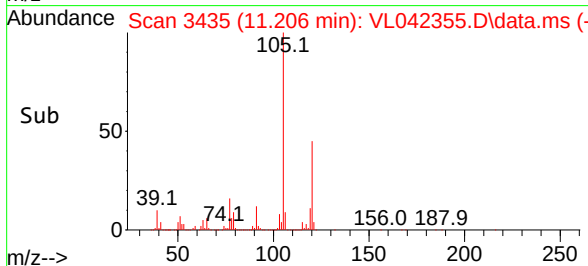
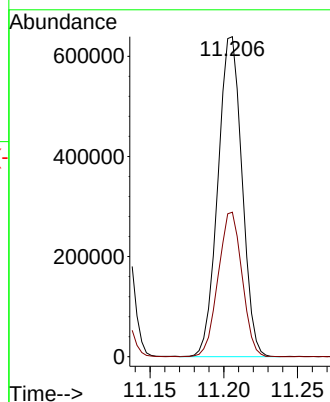
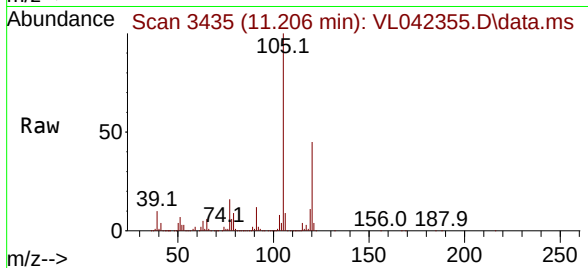
VSTDIC015

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

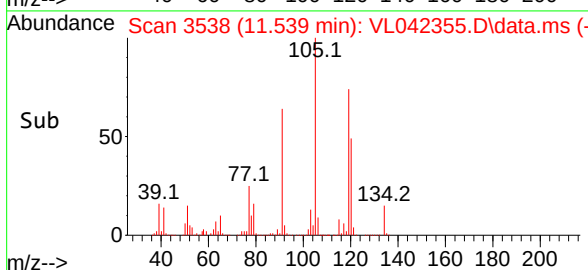
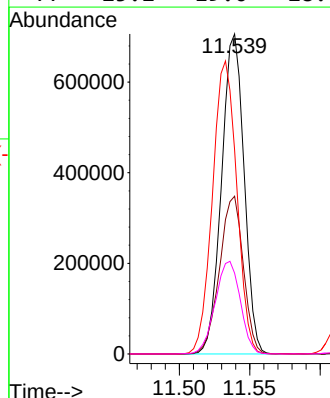
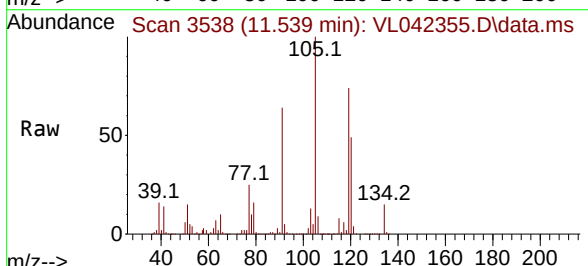
Ion Ratio Lower Upper

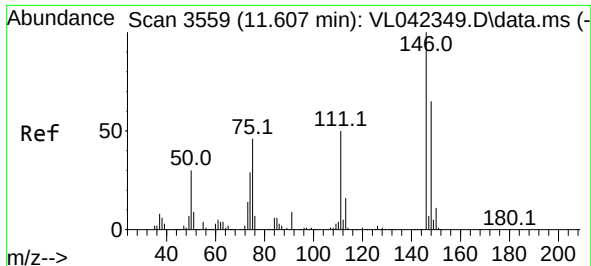
105 100

120 49.3 38.1 57.1

91 63.7 48.8 73.2

77 25.2 19.0 28.4

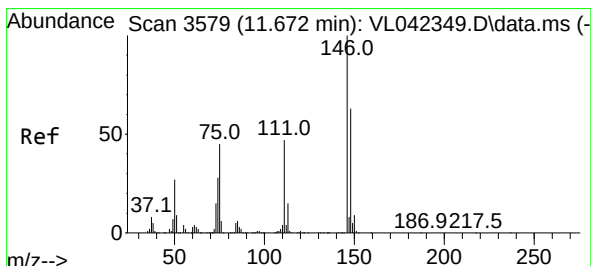
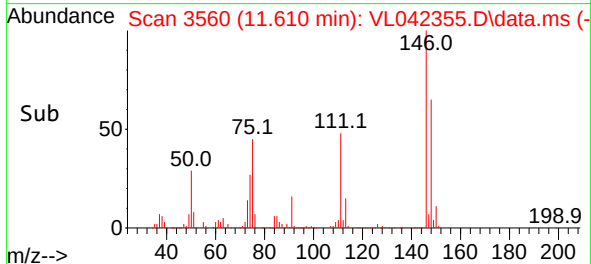
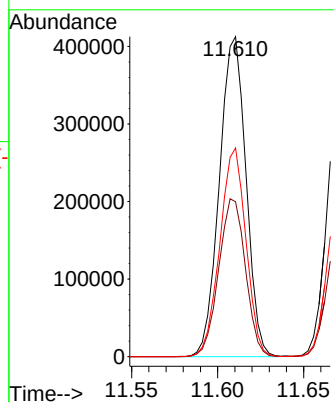
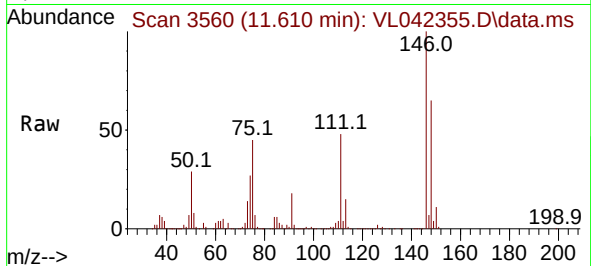




#75
1,3-Dichlorobenzene
Concen: 13.670 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. 0.004 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

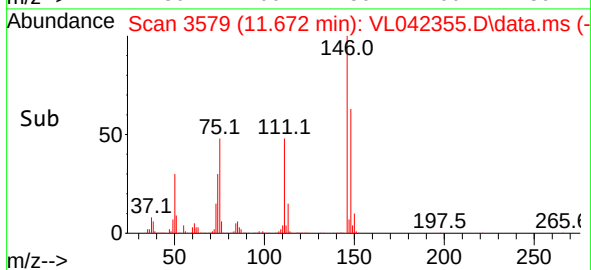
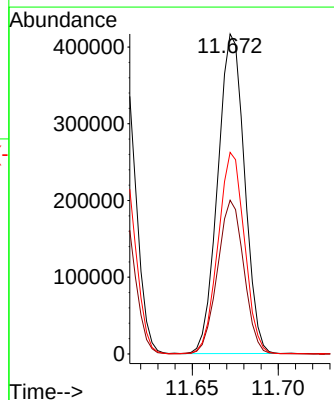
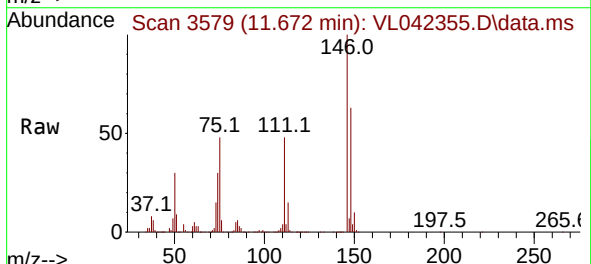
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

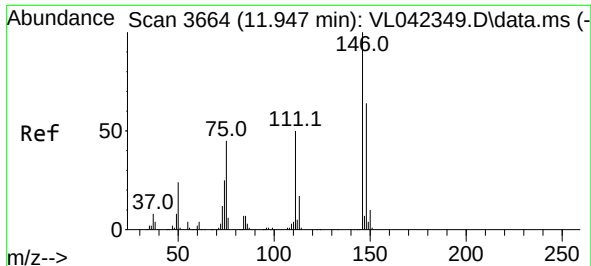
Tgt Ion:146 Resp: 444086
Ion Ratio Lower Upper
146 100
111 49.6 24.3 72.8
148 63.9 31.6 94.8



#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

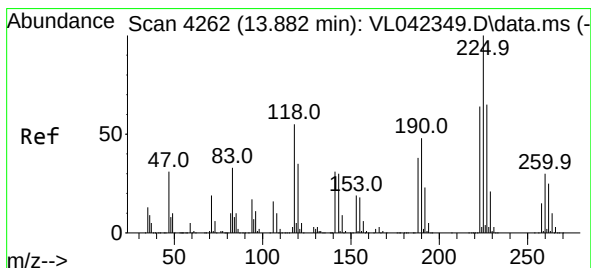
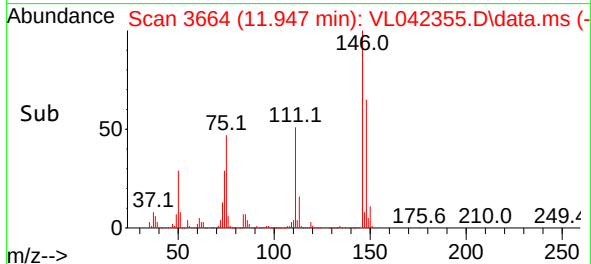
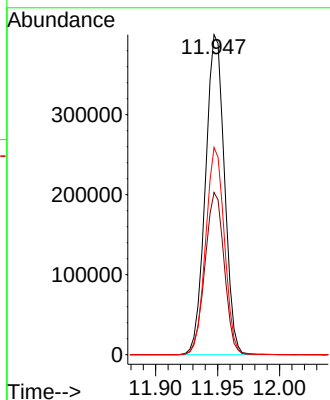
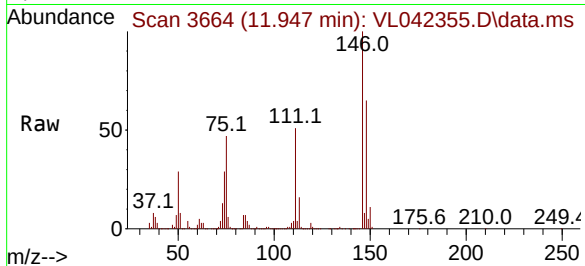




#77
1,2-Dichlorobenzene
Concen: 13.529 ppbv
RT: 11.947 min Scan# 3664
Delta R.T. 0.000 min
Lab File: VL042355.D
Acq: 17 Apr 2025 12:54

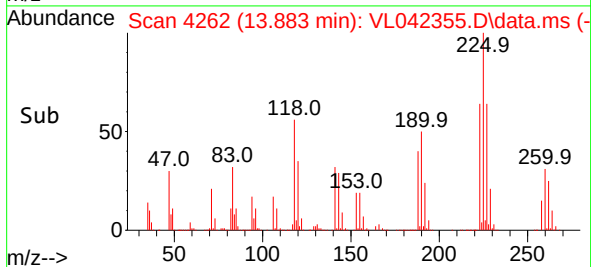
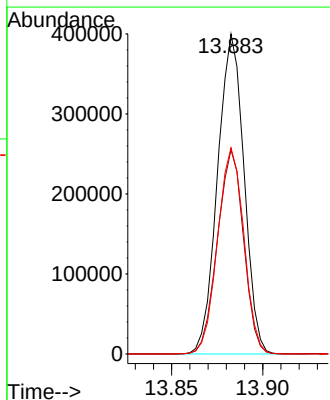
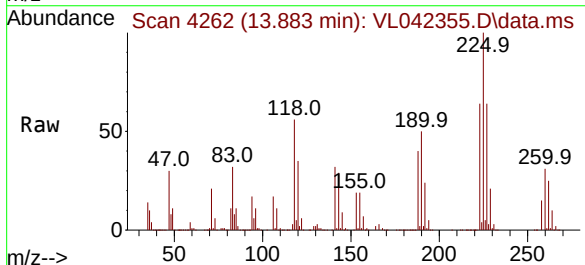
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC015

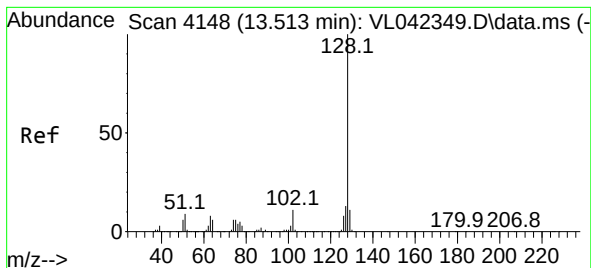
Tgt Ion:146 Resp: 427372
Ion Ratio Lower Upper
146 100
111 51.3 25.3 75.9
148 63.8 31.5 94.5



#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

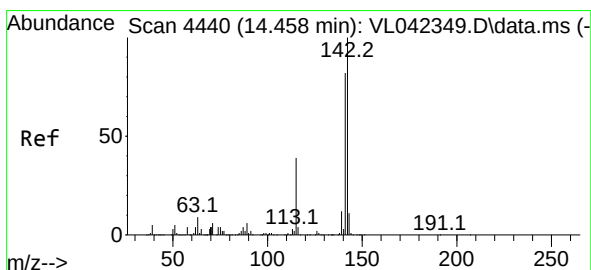
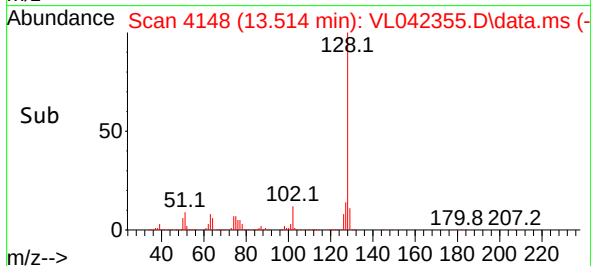
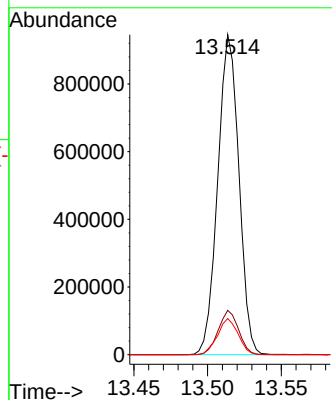
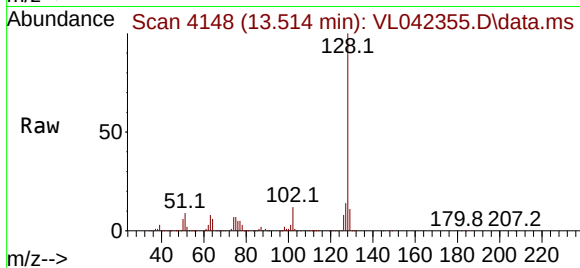
Tgt Ion:128 Resp: 944085

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

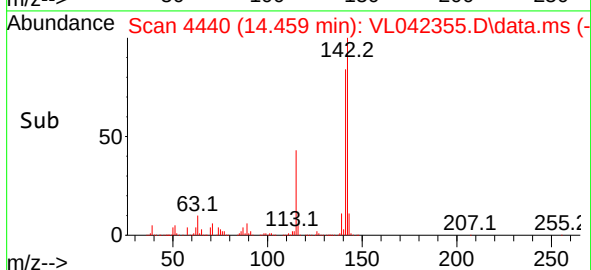
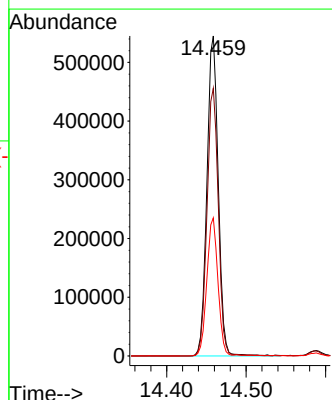
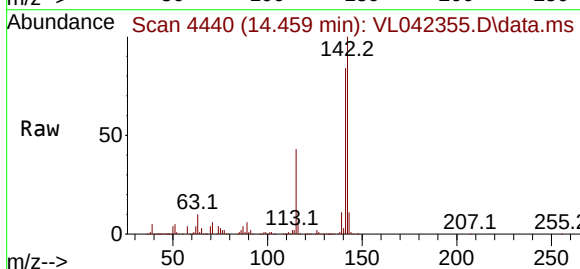
Tgt Ion:142 Resp: 540339

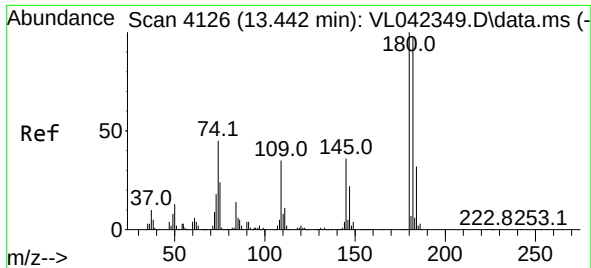
Ion Ratio Lower Upper

142 100

141 84.3 66.8 100.2

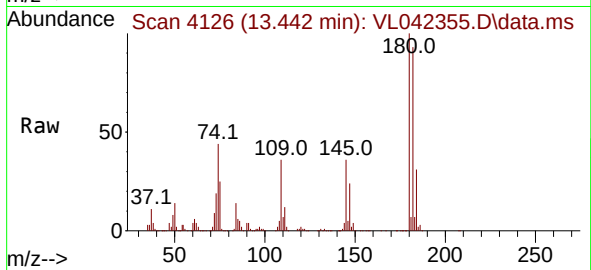
115 43.0 33.4 50.2





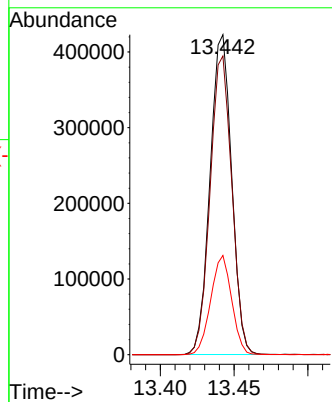
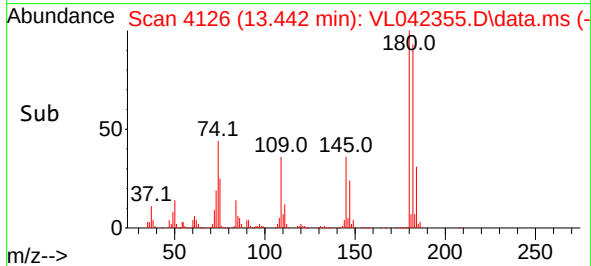
#81
 1,2,4-Trichlorobenzene
 Concen: 13.398 ppbv
 RT: 13.442 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL042355.D
 Acq: 17 Apr 2025 12:54

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

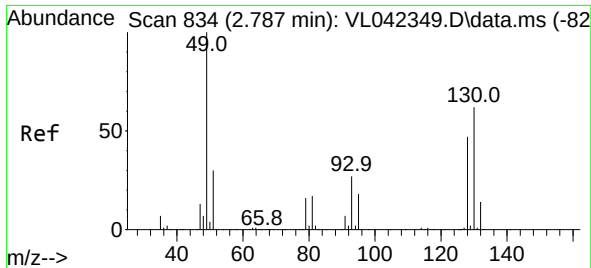
Quant Time: Apr 18 02:15:19 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 02:14:00 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.599	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

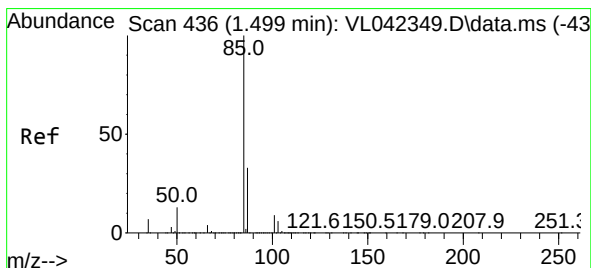
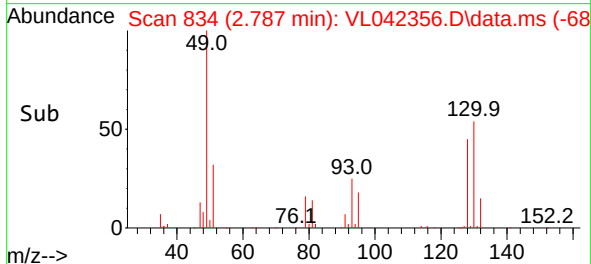
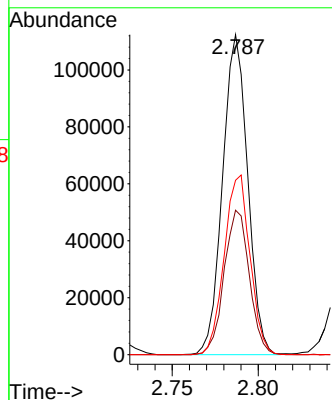
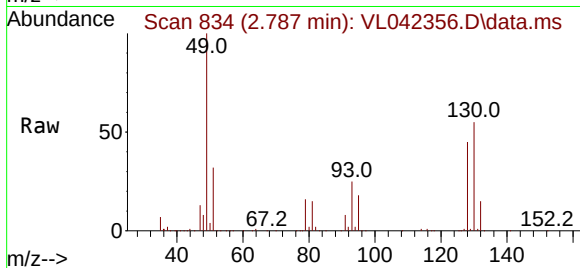




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 834
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

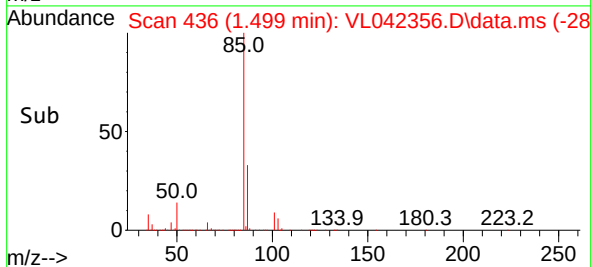
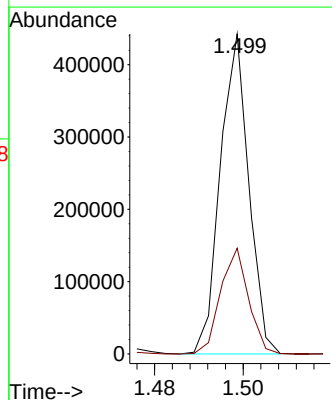
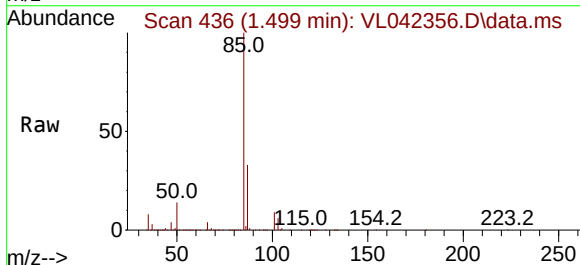
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

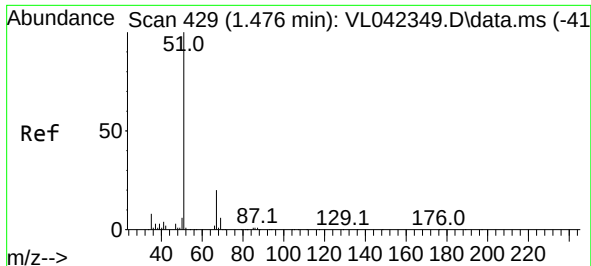
Tgt Ion: 49 Resp: 113992
Ion Ratio Lower Upper
49 100
128 45.5 22.8 68.4
130 57.8 29.3 88.0



#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

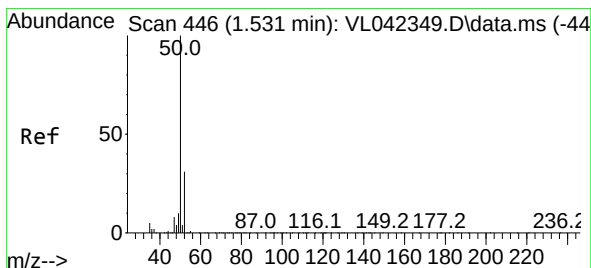
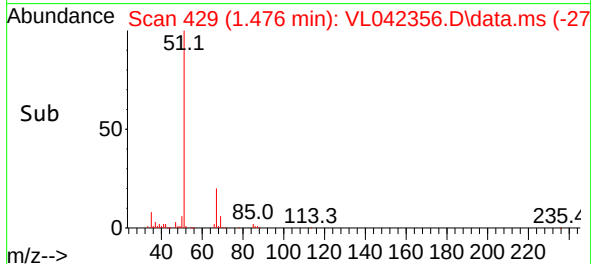
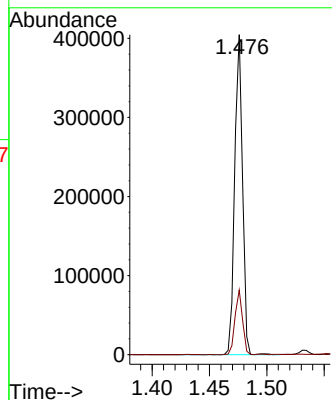
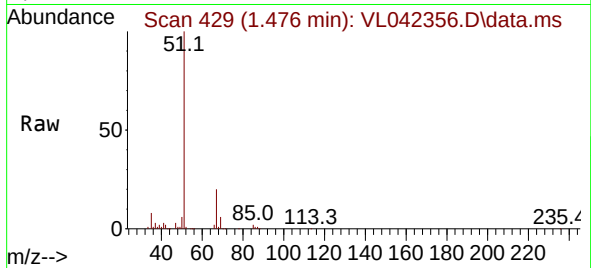




#3
Chlorodifluoromethane
Concen: 9.960 ppbv
RT: 1.476 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

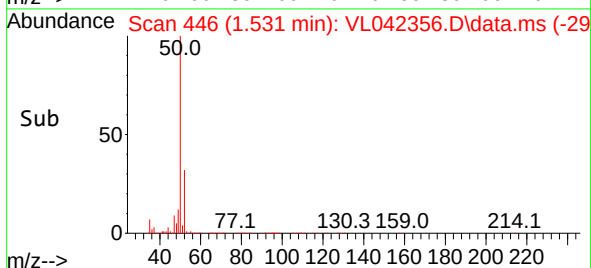
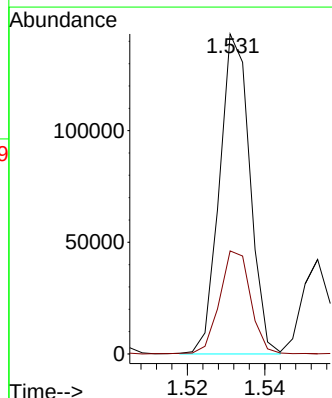
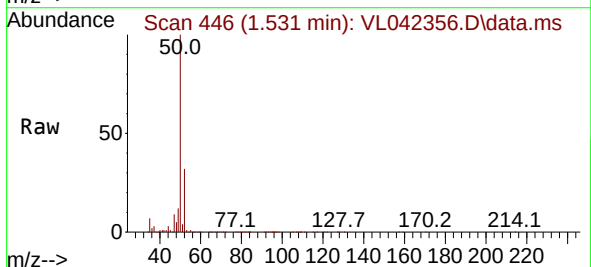
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

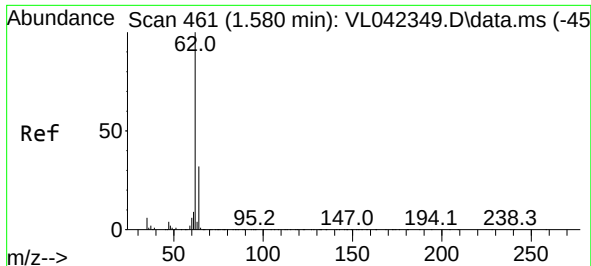
Tgt Ion: 51 Resp: 191010
Ion Ratio Lower Upper
51 100
67 19.6 16.2 24.4



#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

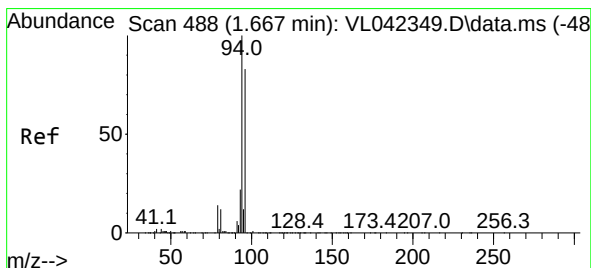
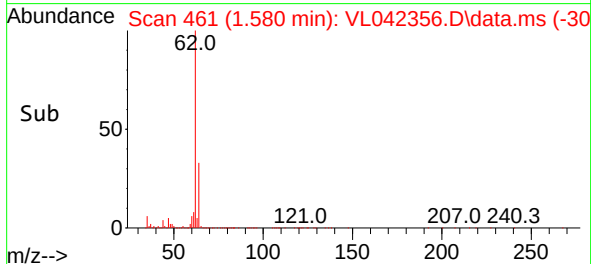
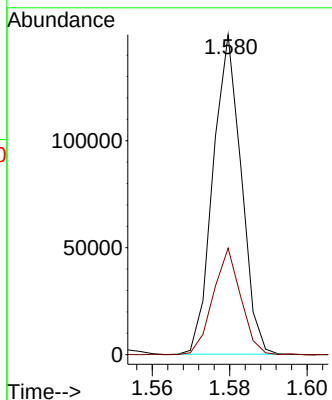
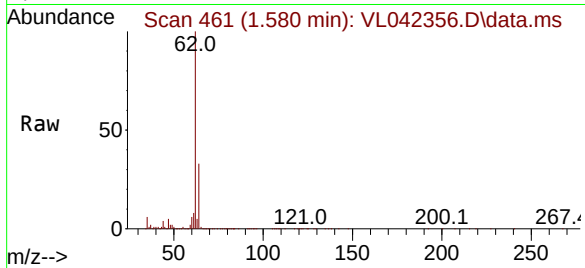




#5
 Vinyl Chloride
 Concen: 8.717 ppbv
 RT: 1.580 min Scan# 461
 Delta R.T. -0.000 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

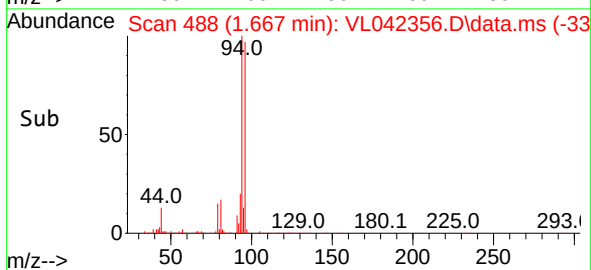
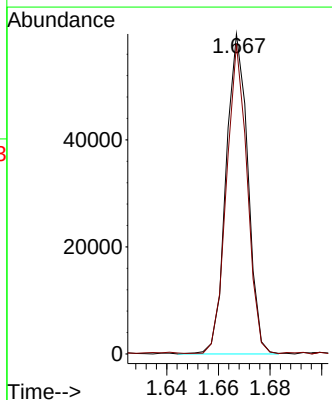
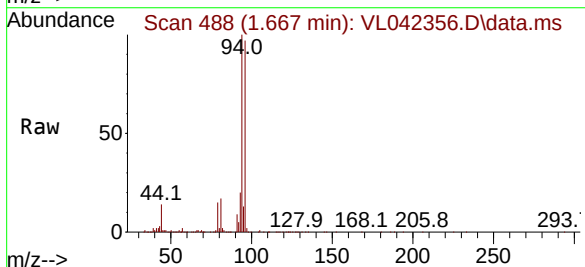
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL041725

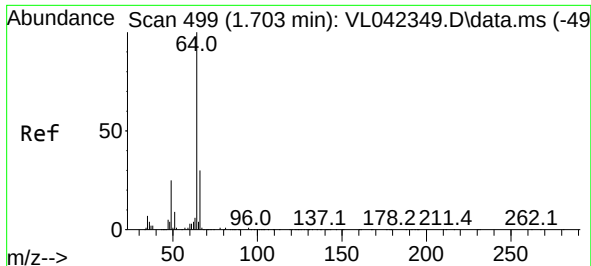
Tgt Ion: 62 Resp: 75628
 Ion Ratio Lower Upper
 62 100
 64 33.3 25.4 38.0



#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

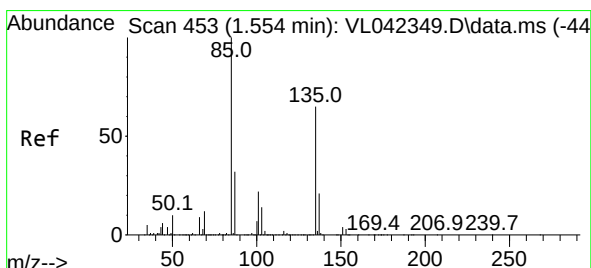
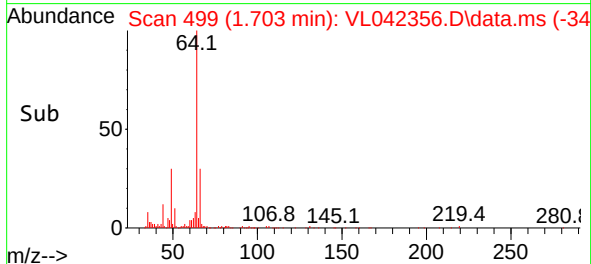
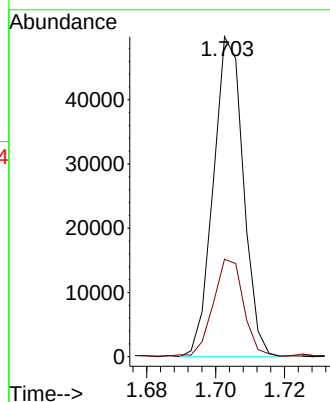
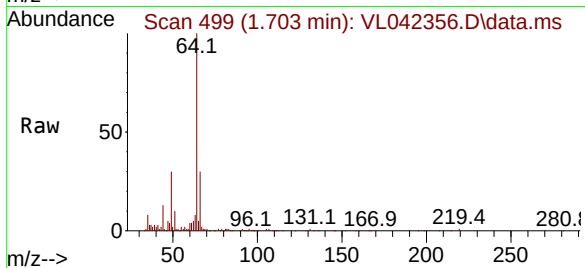




#7
Chloroethane
Concen: 9.612 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

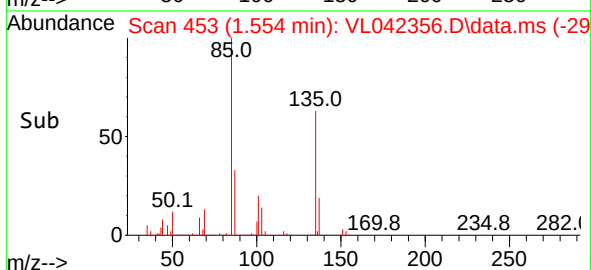
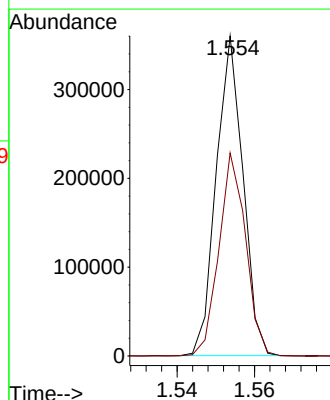
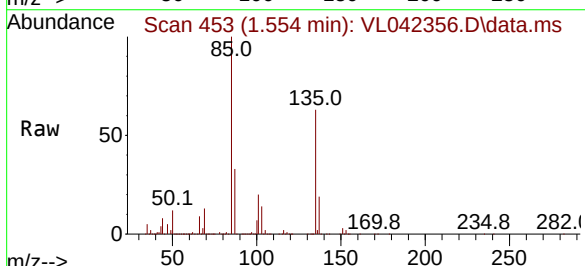
Instrument :
MSVOA_1
ClientSampleId :
ICVVL041725

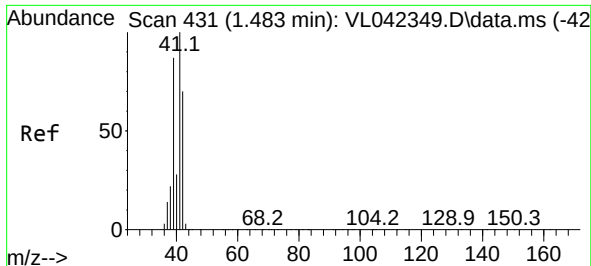
Tgt Ion: 64 Resp: 30158
Ion Ratio Lower Upper
64 100
66 30.4 24.6 37.0



#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 :

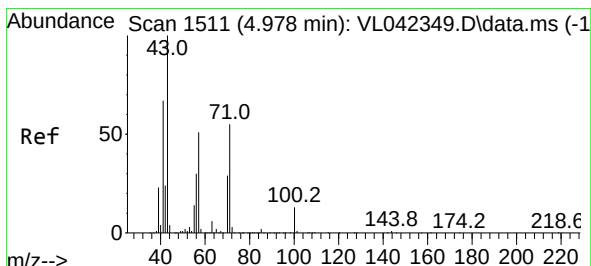
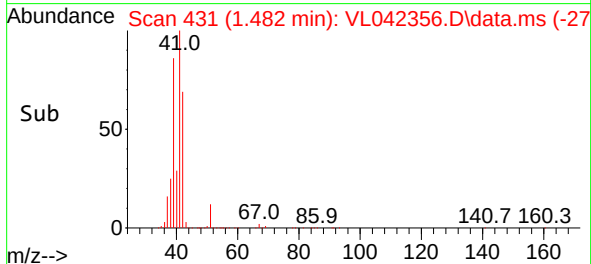
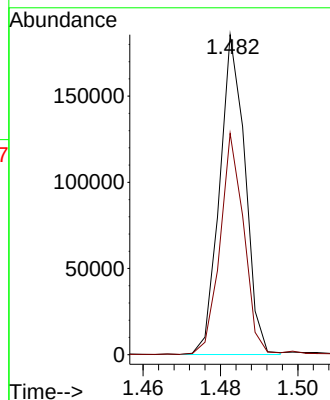
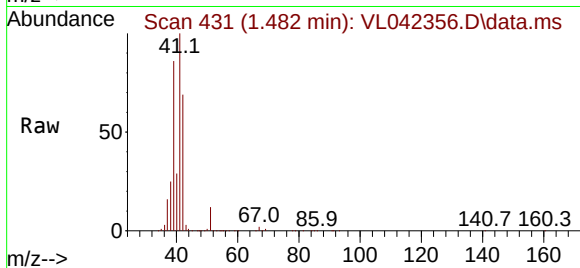
ICVVL041725

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

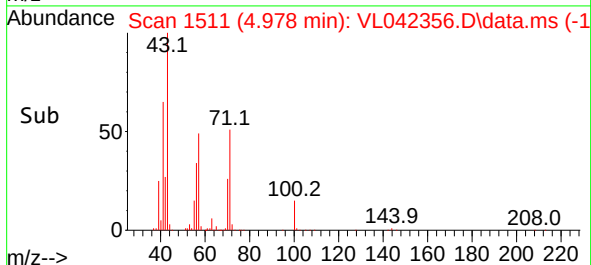
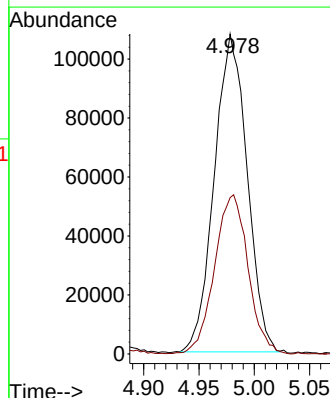
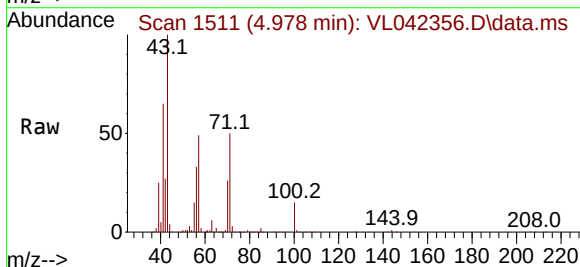
Acq: 17 Apr 2025 13:43

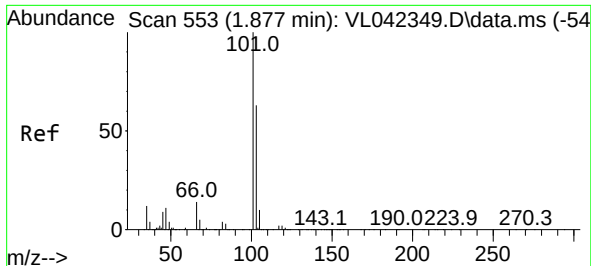
Tgt Ion: 43 Resp: 221840

Ion Ratio Lower Upper

43 100

57 51.4 39.9 59.9

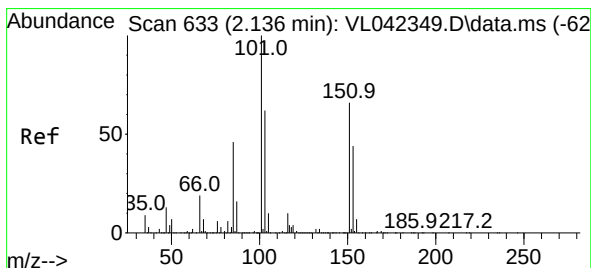
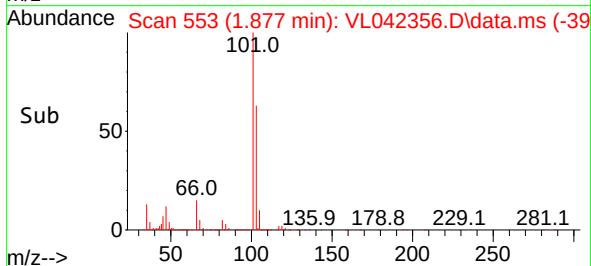
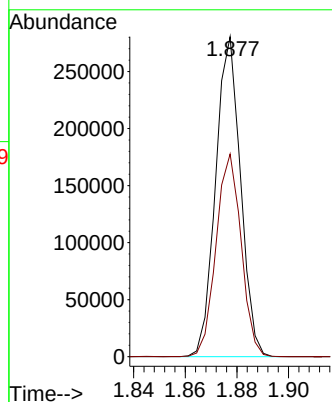
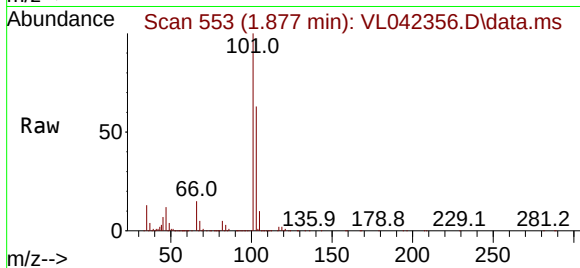




#11
 Trichlorofluoromethane
 Concen: 9.807 ppbv
 RT: 1.877 min Scan# 51
 Delta R.T. -0.000 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

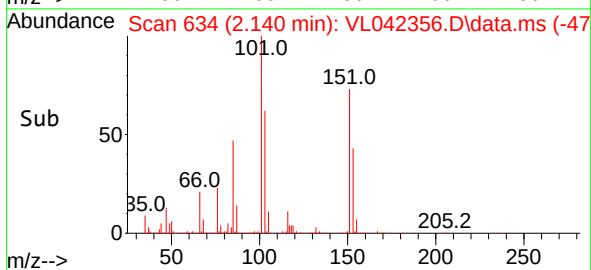
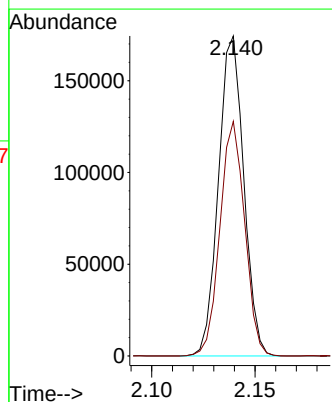
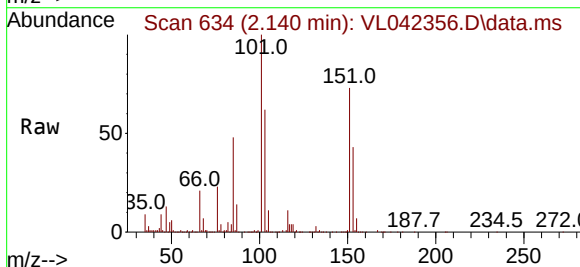
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL041725

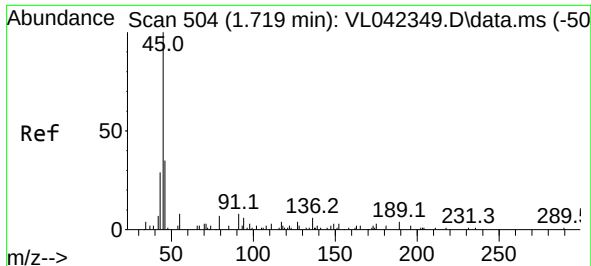
Tgt Ion:101 Resp: 187827
 Ion Ratio Lower Upper
 101 100
 103 63.3 50.1 75.1



#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

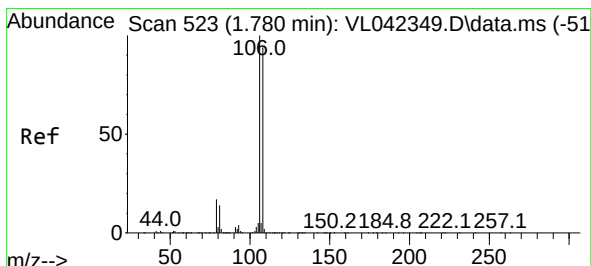
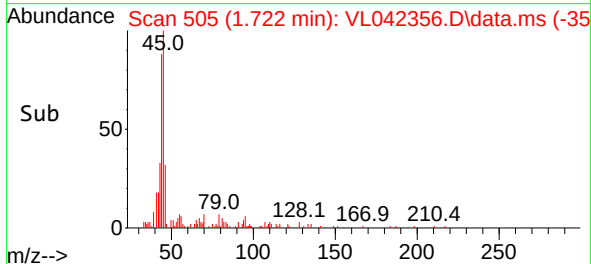
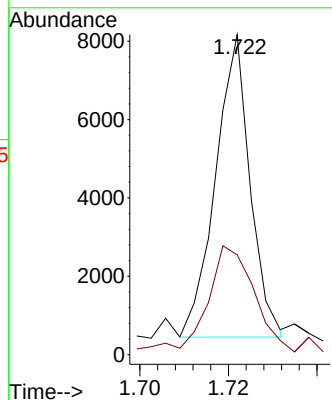
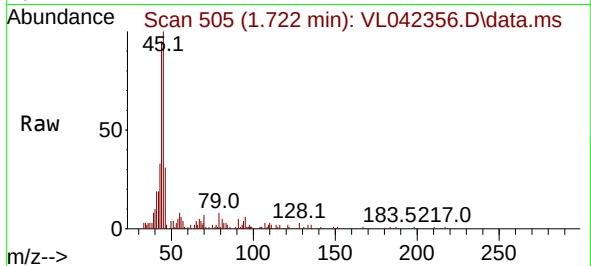




#13
 Ethanol
 Concen: 3.005 ppbv
 RT: 1.722 min Scan# 504
 Delta R.T. 0.003 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

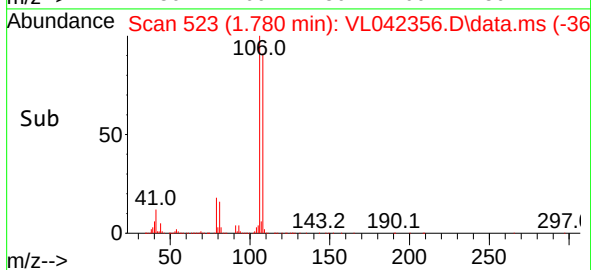
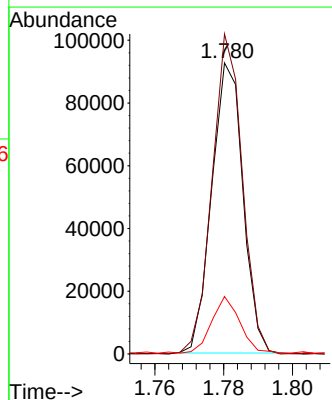
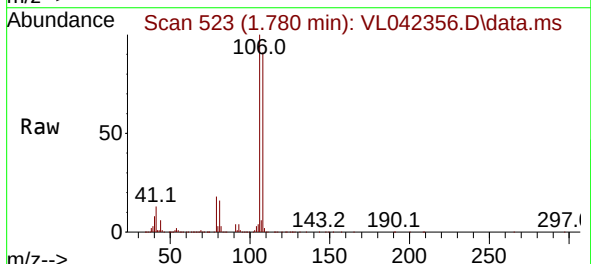
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL041725

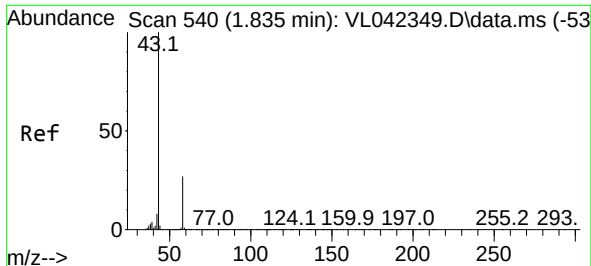
Tgt Ion: 45 Resp: 4171
 Ion Ratio Lower Upper
 45 100
 46 57.0 21.9 87.7



#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

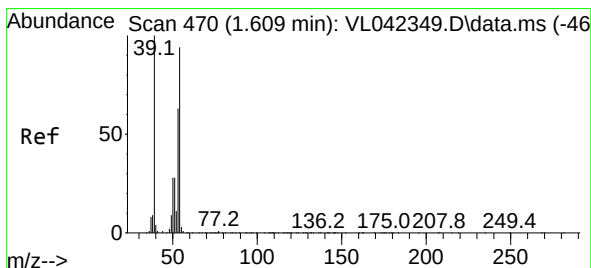
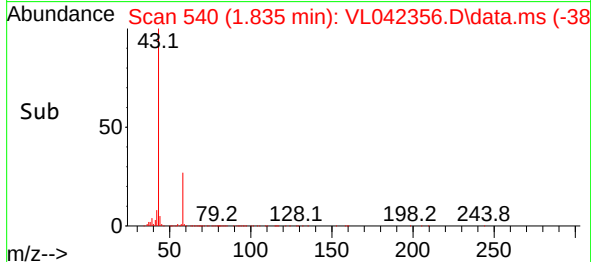
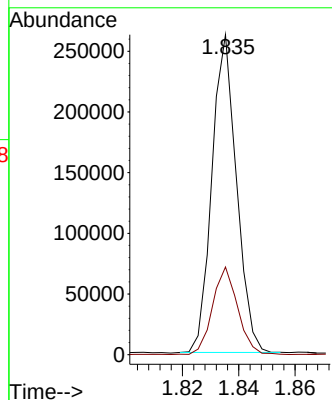
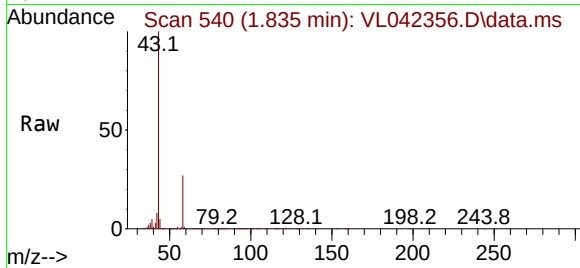




#15
Acetone
Concen: 8.505 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

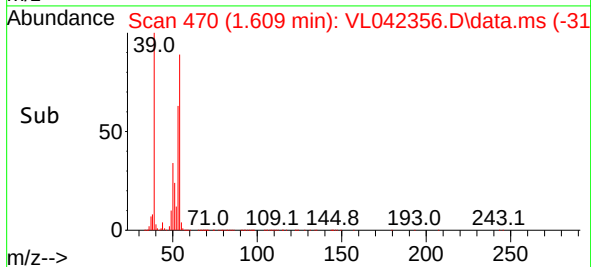
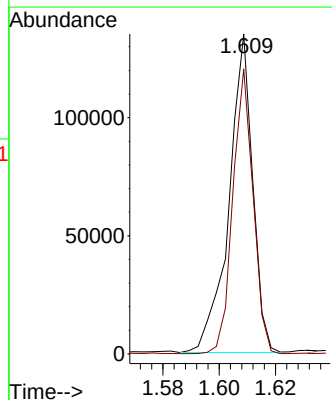
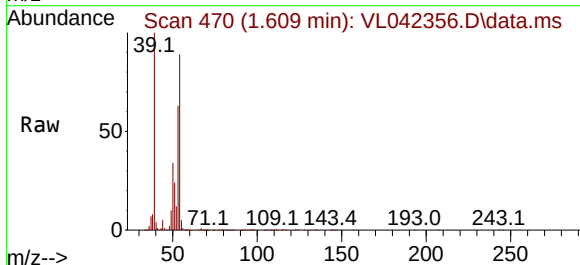
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

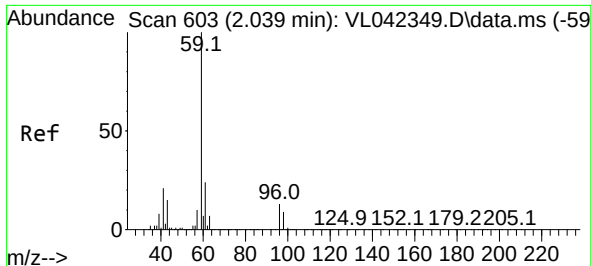
Tgt Ion: 43 Resp: 158708
Ion Ratio Lower Upper
43 100
58 28.0 22.4 33.6



#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_L

ClientSampleId :

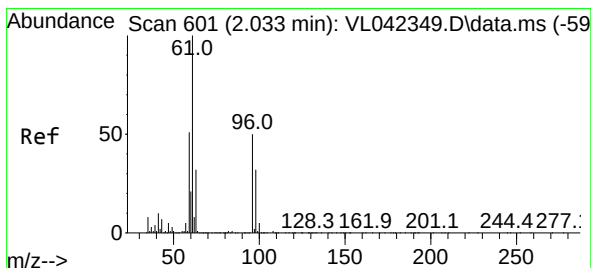
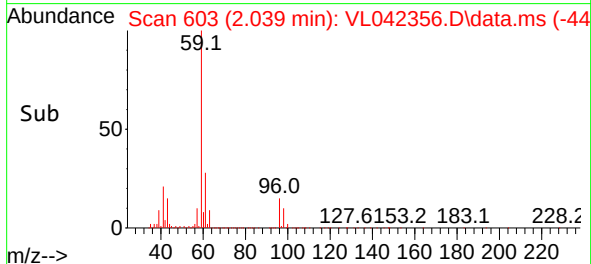
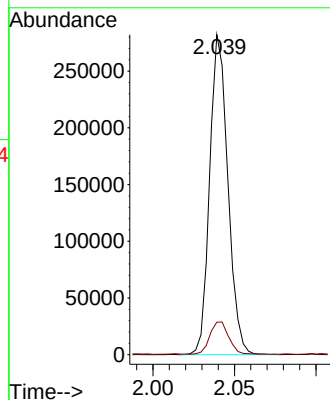
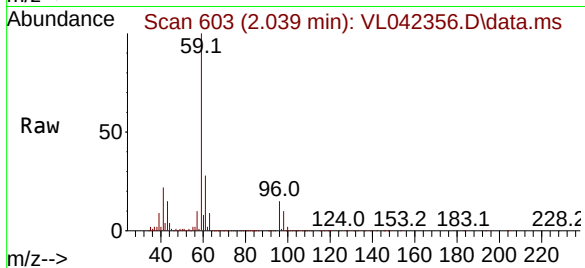
ICVVL041725

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

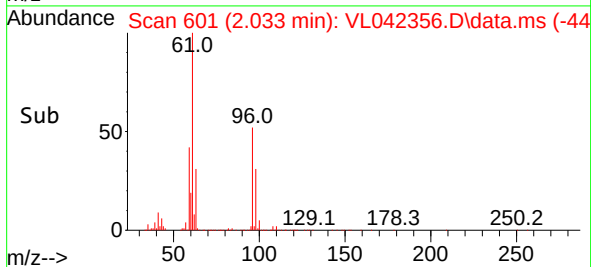
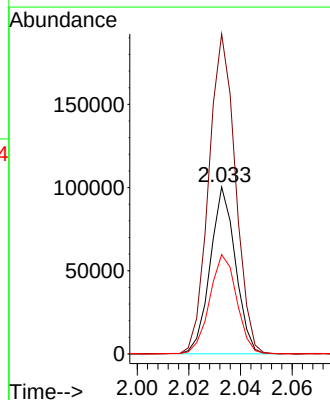
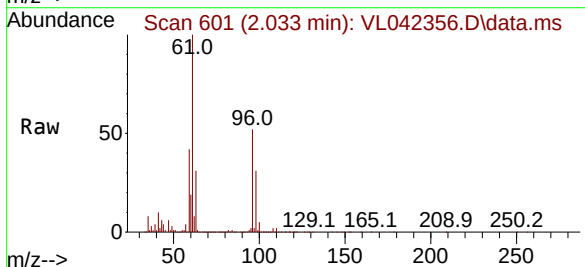
Tgt Ion: 96 Resp: 67940

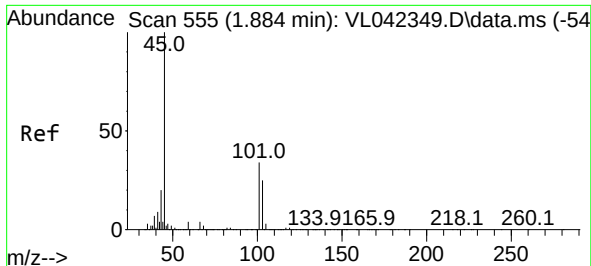
Ion Ratio Lower Upper

96 100

61 191.6 160.2 240.2

98 59.4 51.0 76.4

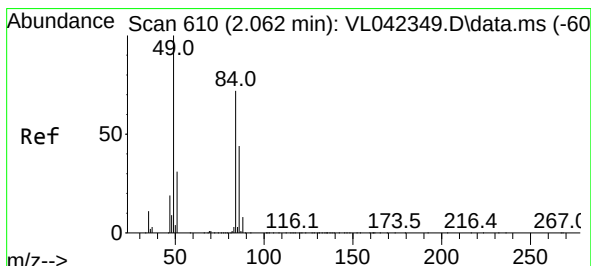
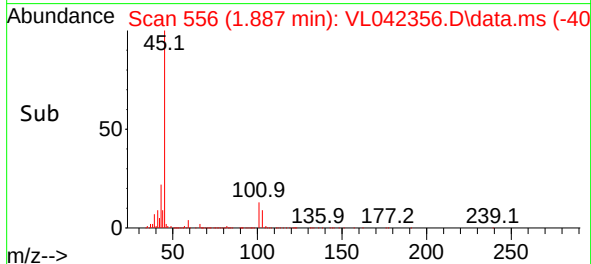
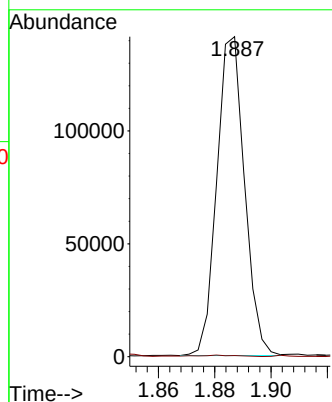
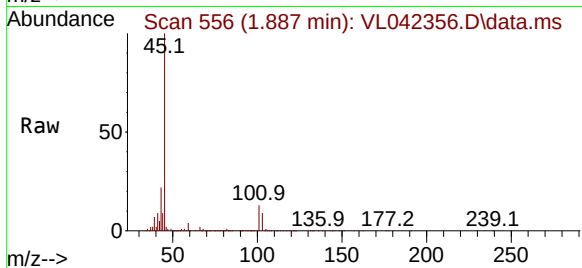




#19
Isopropyl Alcohol
Concen: 9.296 ppbv
RT: 1.887 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

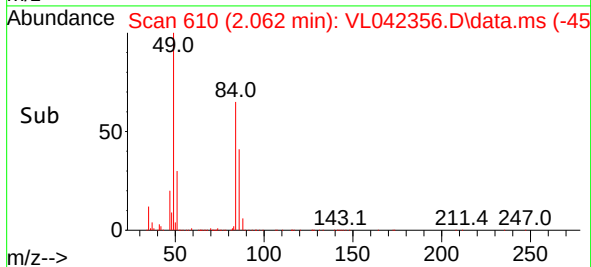
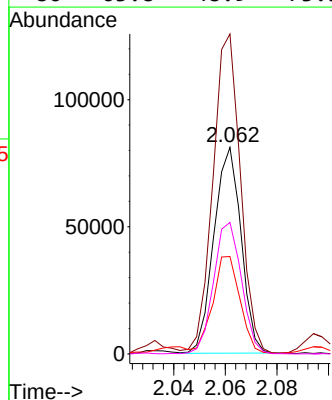
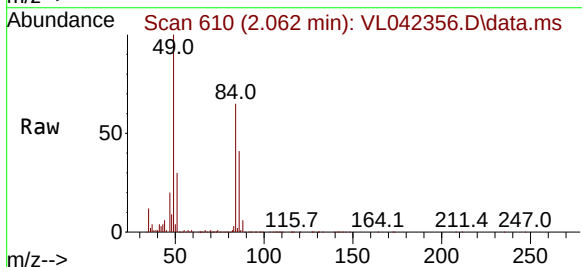
Instrument :
MSVOA_1
ClientSampleId :
ICVVL041725

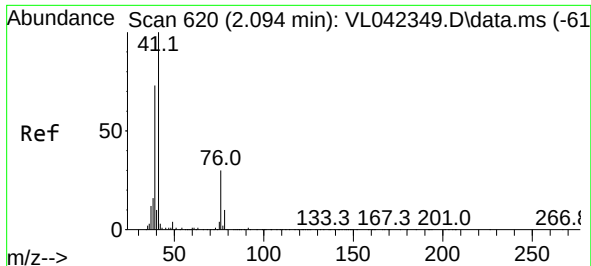
Tgt Ion: 45 Resp: 96365
Ion Ratio Lower Upper
45 100
58 46.1 34.5 51.7



#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

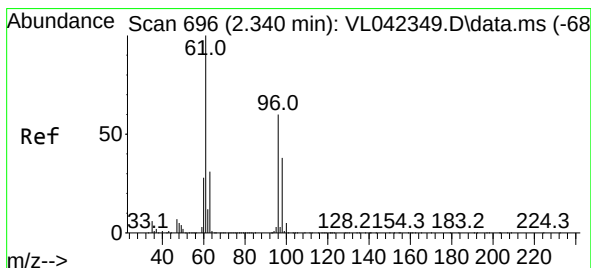
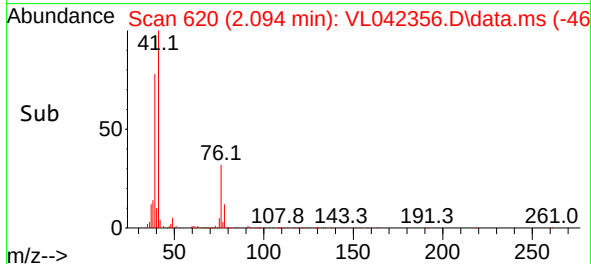
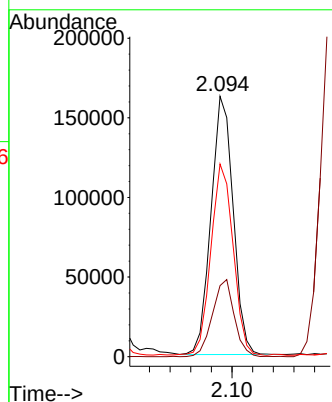
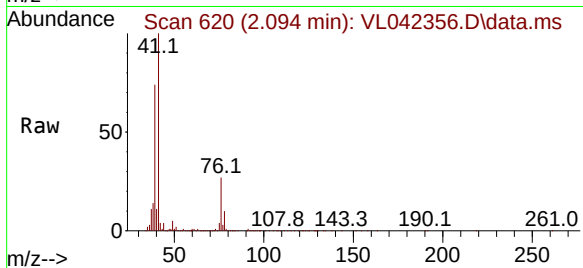




#21
 Allyl Chloride
 Concen: 9.368 ppbv
 RT: 2.094 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

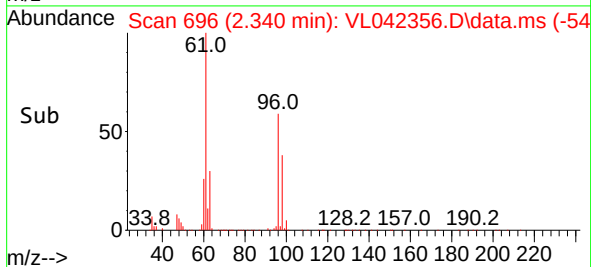
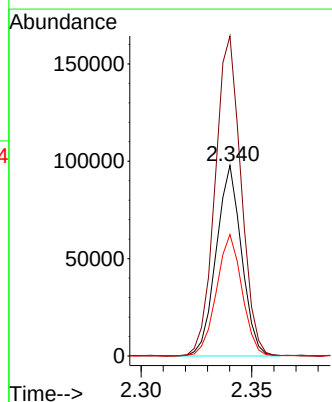
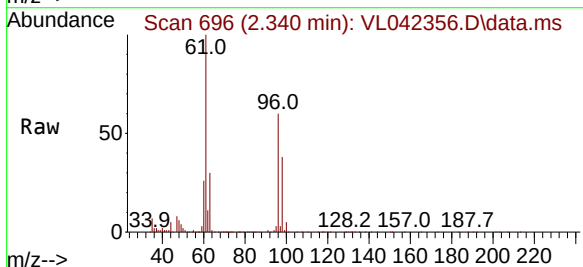
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL041725

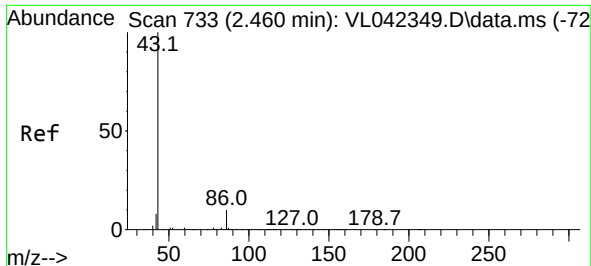
Tgt Ion: 41 Resp: 120704
 Ion Ratio Lower Upper
 41 100
 76 29.5 24.8 37.2
 39 74.5 60.6 90.8



#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

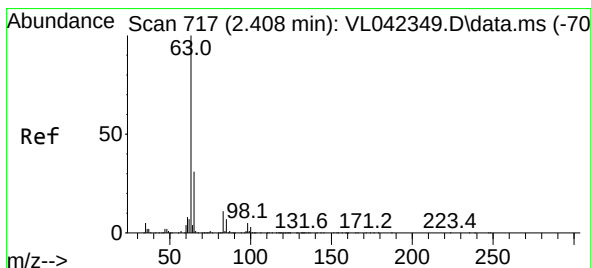
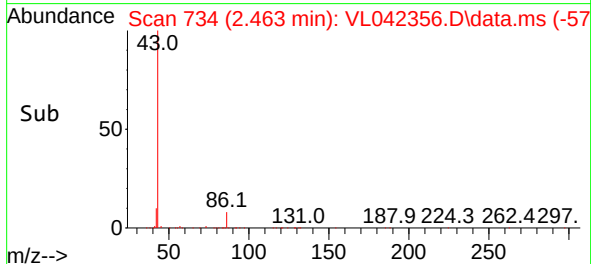
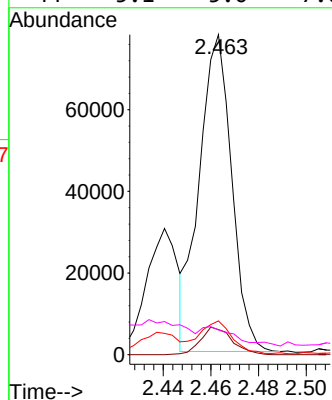
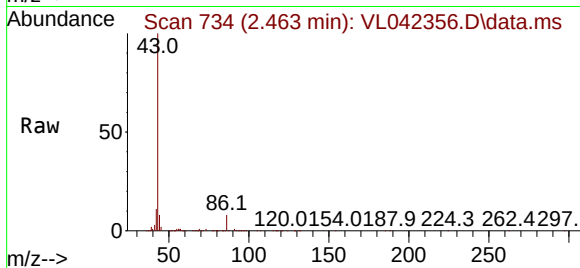




#23
 Vinyl Acetate
 Concen: 9.714 ppbv
 RT: 2.463 min Scan# 714
 Delta R.T. 0.003 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

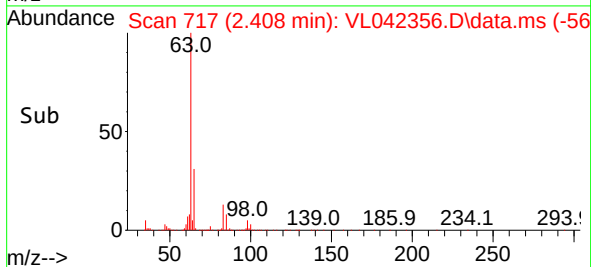
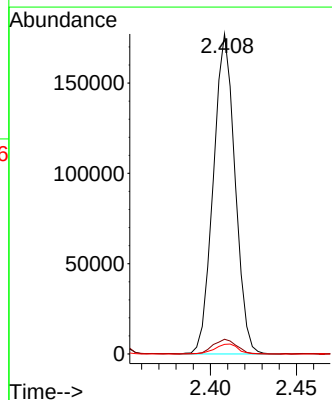
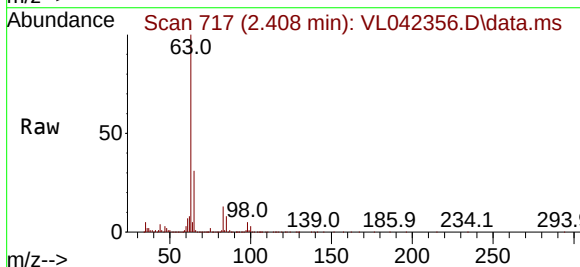
Instrument :
 MSVOA_1
 ClientSampleId :
 ICVVL041725

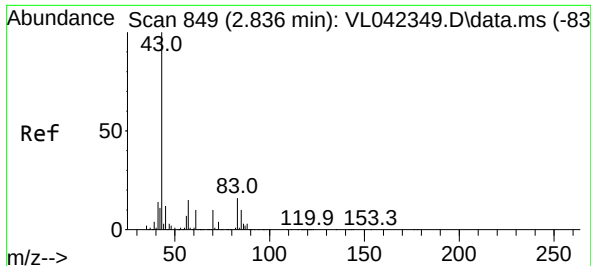
Tgt Ion:	43	Resp:	73373
Ion	Ratio	Lower	Upper
43	100		
86	8.0	6.5	9.7
42	10.0	7.8	11.8
44	5.1	5.0	7.6



#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

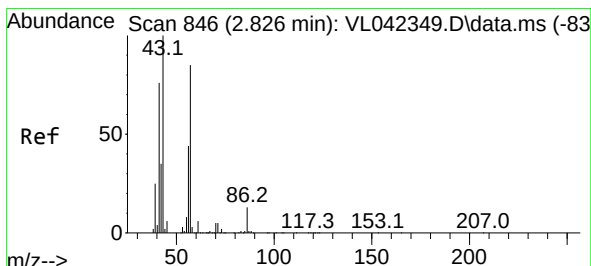
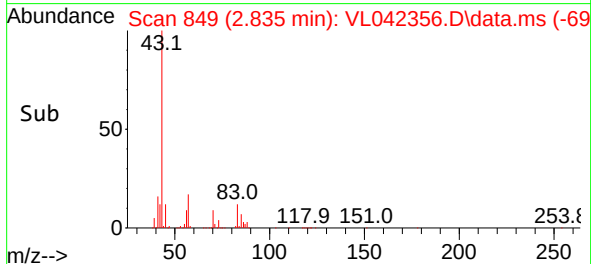
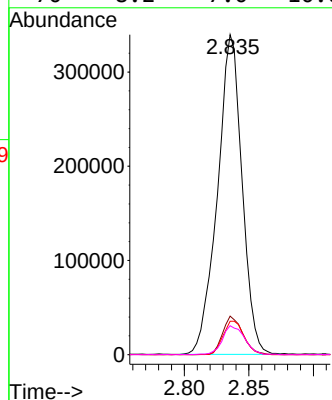
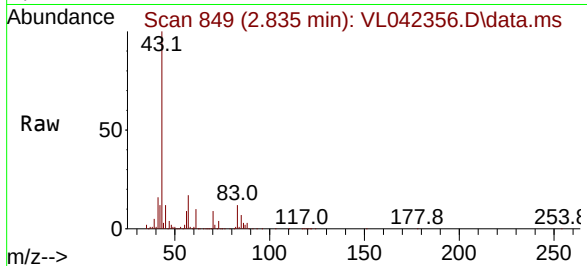




#25
Ethyl Acetate
Concen: 9.759 ppbv
RT: 2.835 min Scan# 849
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

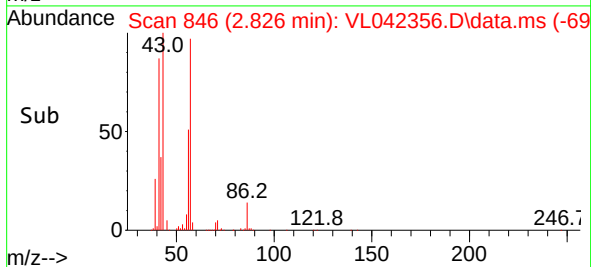
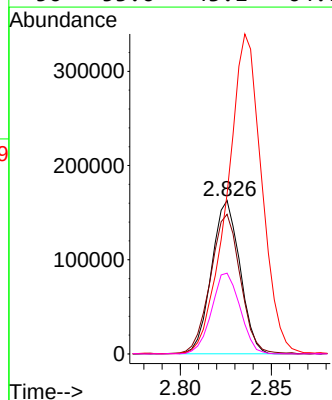
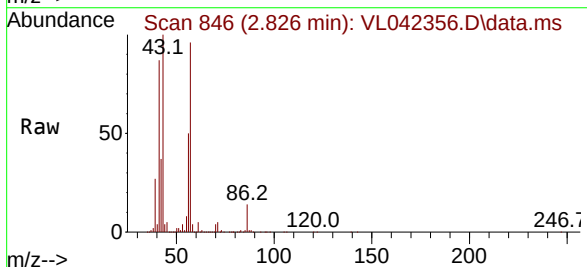
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

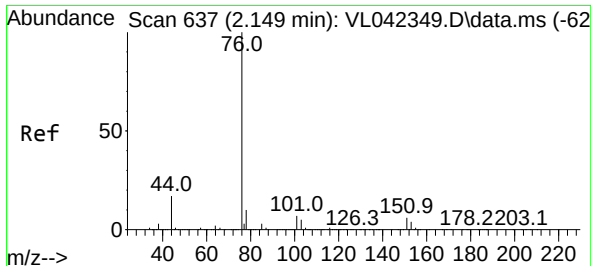
Tgt Ion:	43	Resp:	449014
Ion	Ratio	Lower	Upper
43	100		
45	9.9	8.3	12.5
61	9.0	7.3	10.9
70	8.2	7.0	10.6



#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

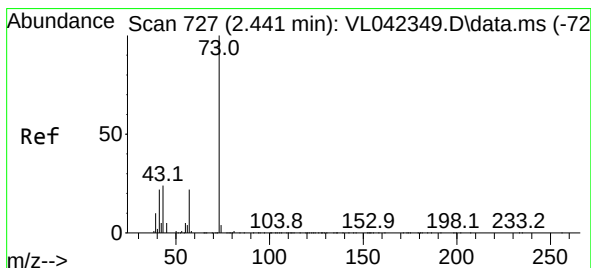
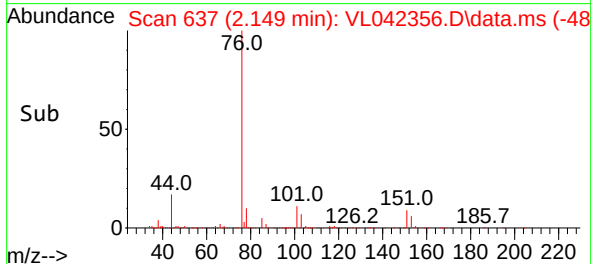
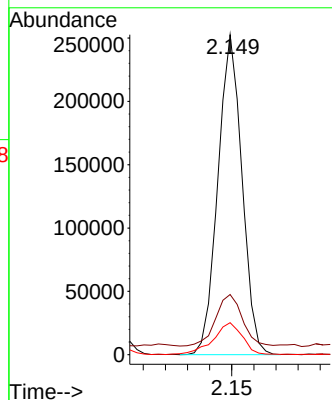
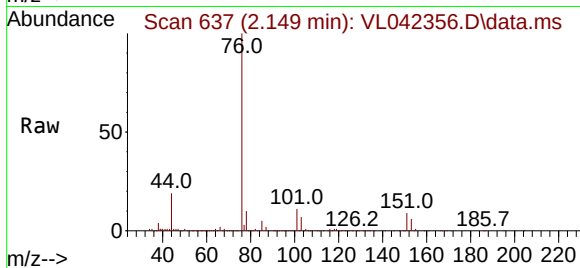




#27
Carbon Disulfide
Concen: 9.587 ppbv
RT: 2.149 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

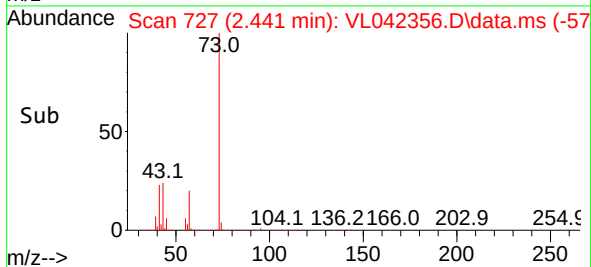
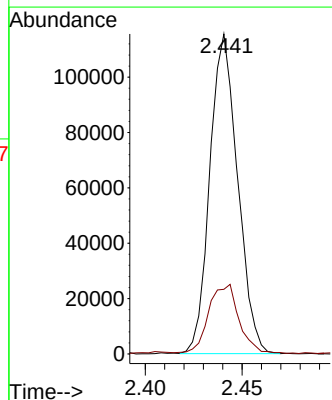
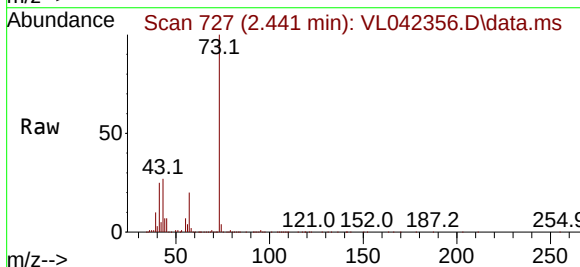
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

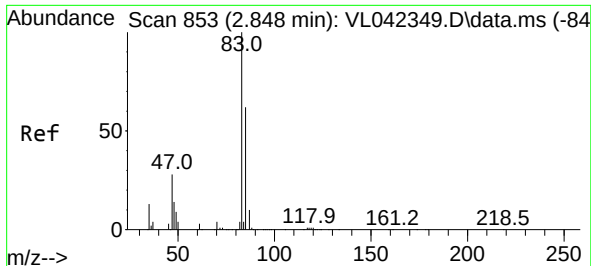
Tgt Ion: 76 Resp: 191117
Ion Ratio Lower Upper
76 100
44 19.3 15.5 23.3
78 11.9 9.3 13.9



#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 :

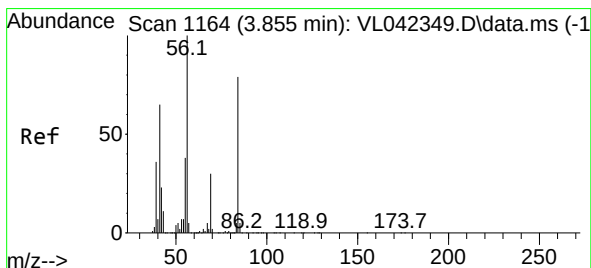
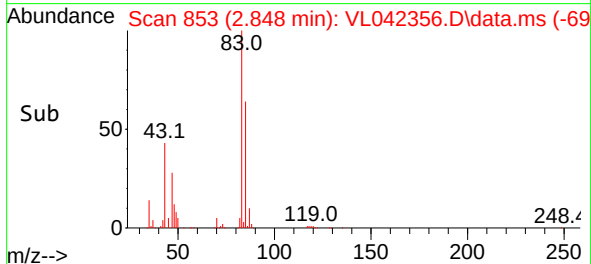
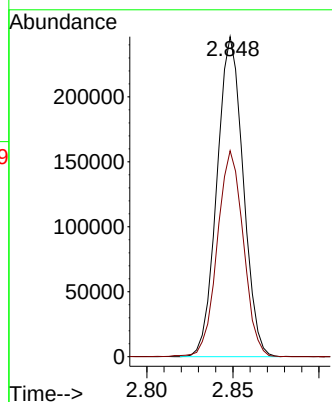
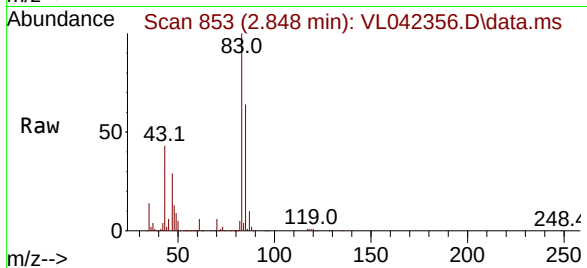
ICVVL041725

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

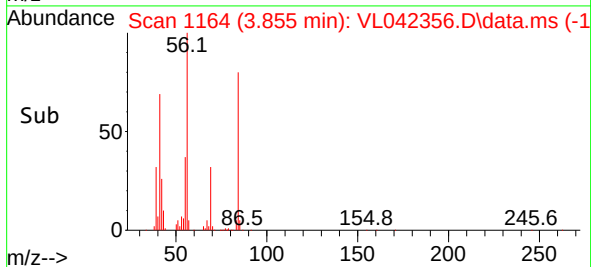
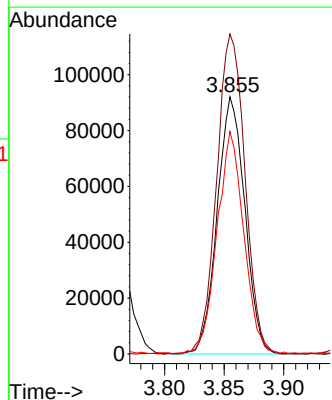
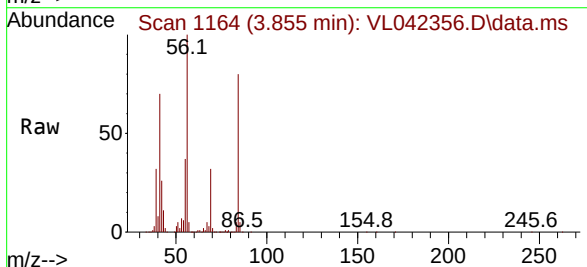
Tgt Ion: 84 Resp: 148246

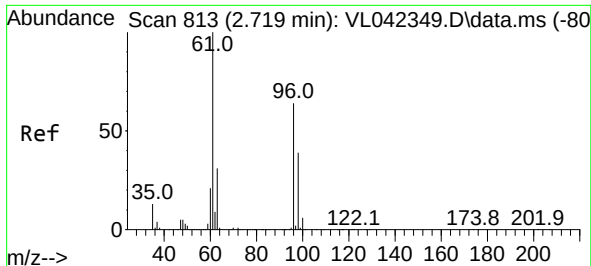
Ion Ratio Lower Upper

84 100

56 127.7 101.0 151.4

41 83.2 67.4 101.0

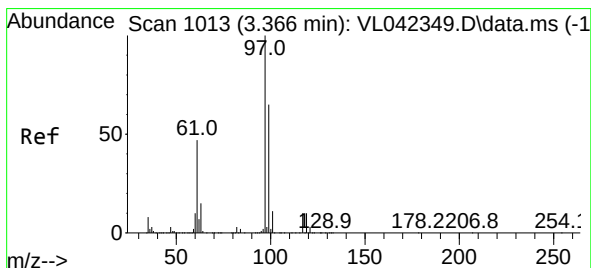
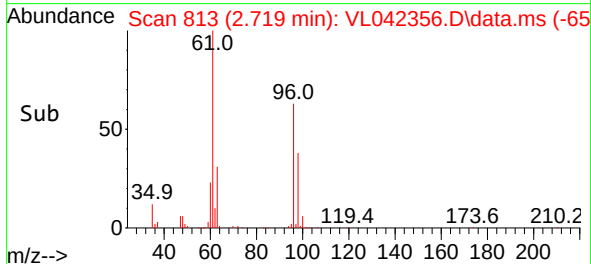
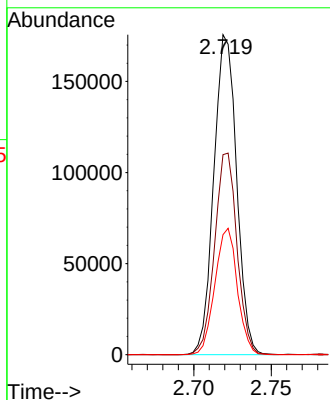
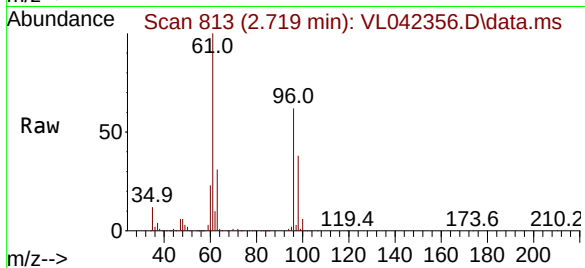




#31
 cis-1,2-Dichloroethene
 Concen: 10.167 ppbv
 RT: 2.719 min Scan# 813
 Delta R.T. -0.000 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

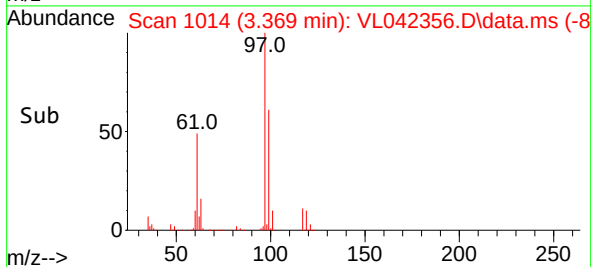
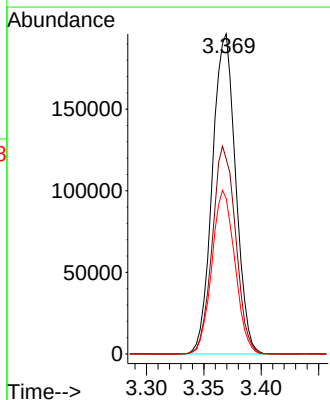
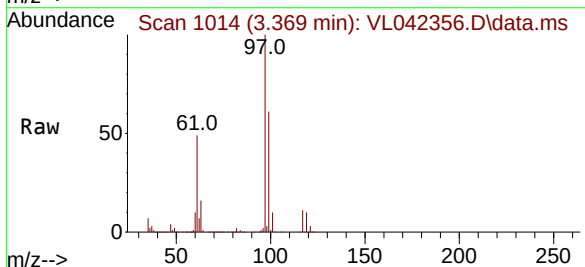
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL041725

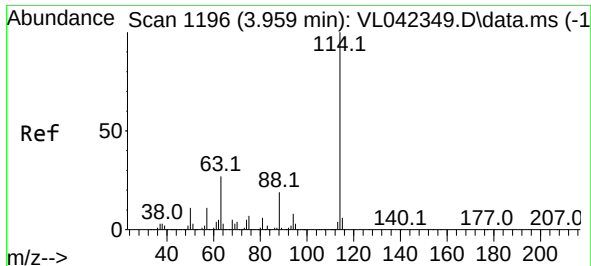
Tgt Ion: 61 Resp: 179993
 Ion Ratio Lower Upper
 61 100
 96 62.5 50.8 76.2
 98 37.5 30.9 46.3



#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

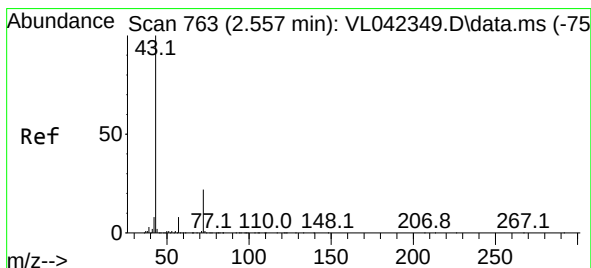
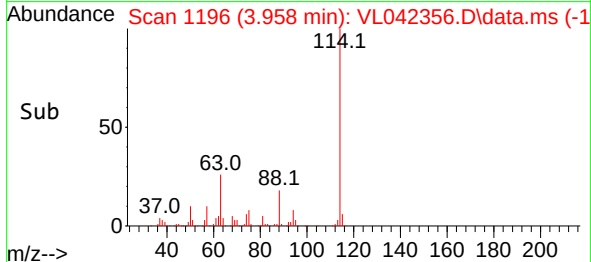
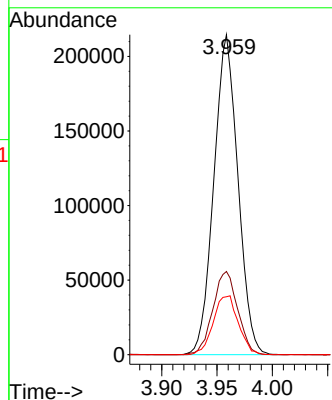
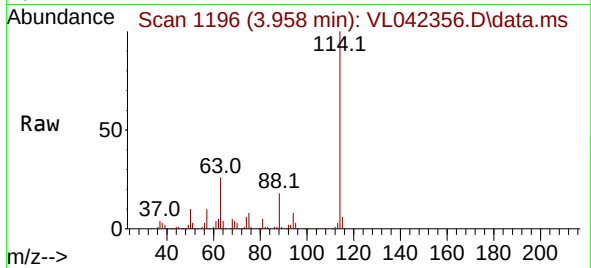




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.958 min Scan# 1196
 Delta R.T. -0.000 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

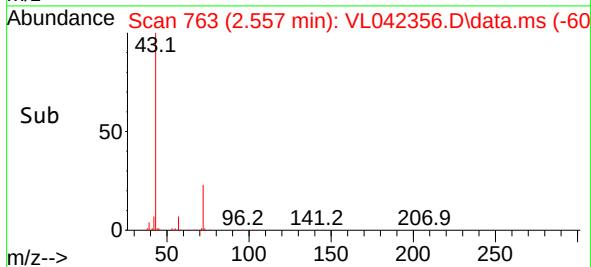
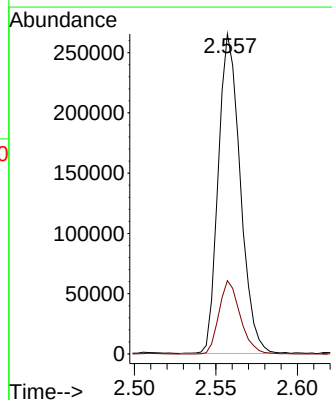
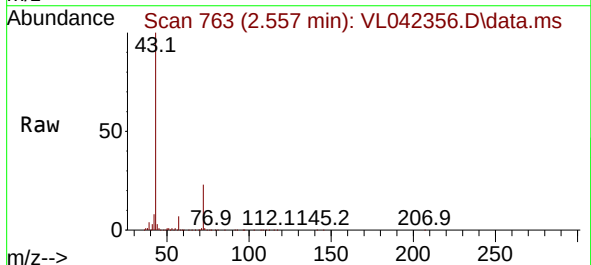
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL041725

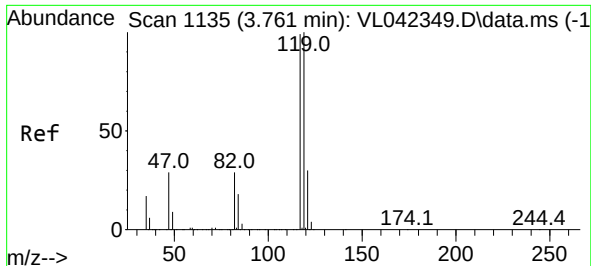
Tgt Ion:114 Resp: 324528
 Ion Ratio Lower Upper
 114 100
 63 26.8 21.8 32.6
 88 19.2 15.5 23.3



#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

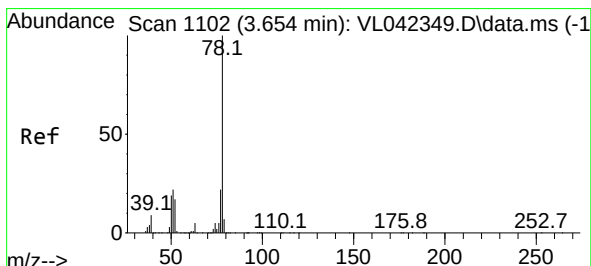
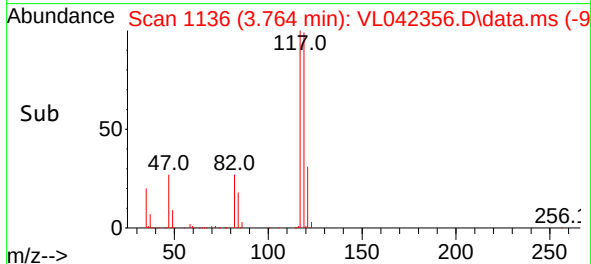
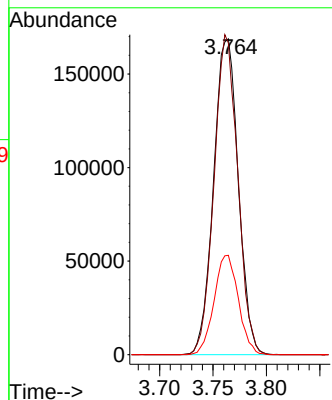
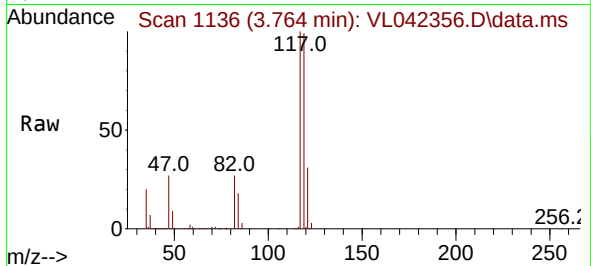




#35
Carbon Tetrachloride
Concen: 9.256 ppbv
RT: 3.764 min Scan# 1135
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

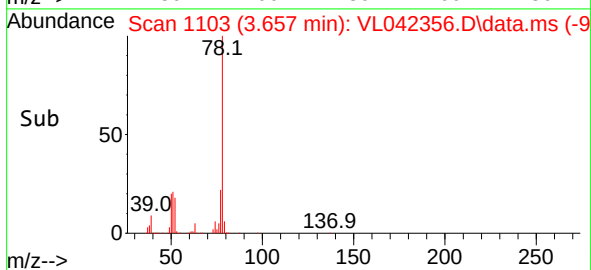
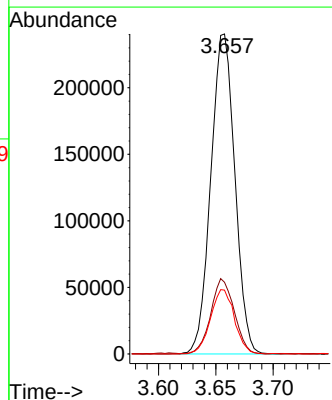
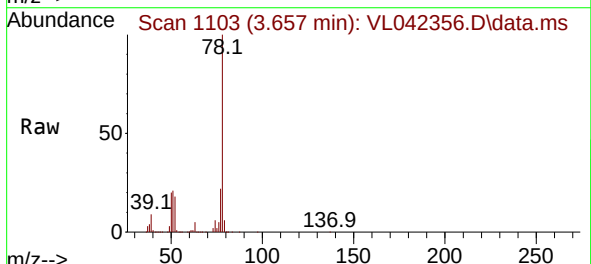
Instrument : MSVOA_1
ClientSampleId : ICVVL041725

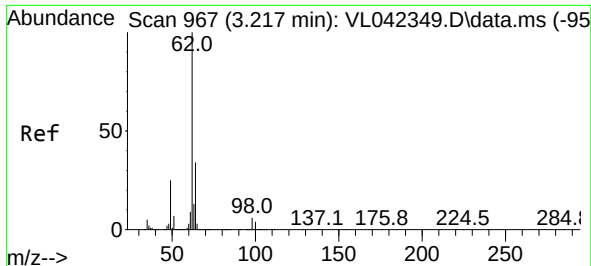
Tgt Ion: 117 Resp: 271862
Ion Ratio Lower Upper
117 100
119 98.7 80.5 120.7
121 31.5 24.2 36.2



#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 :

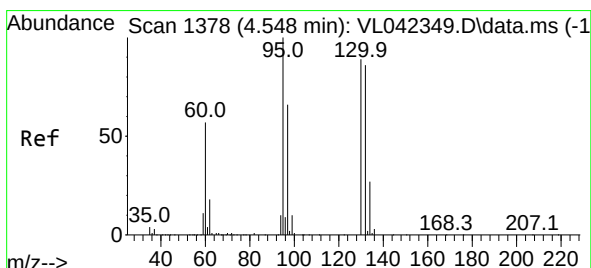
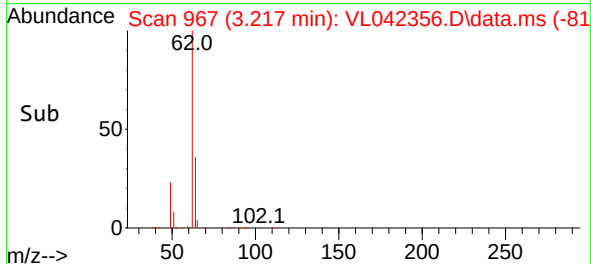
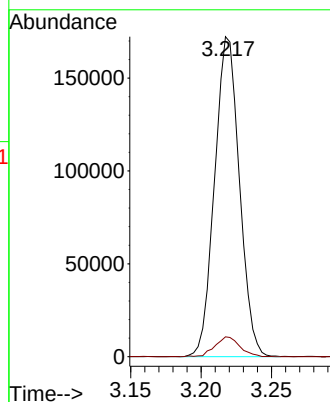
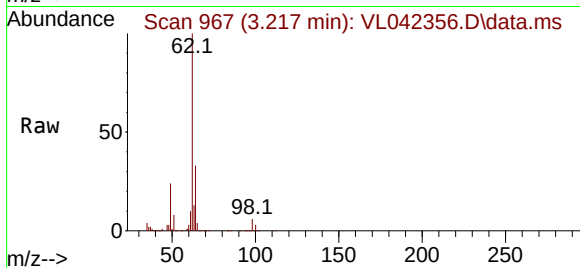
ICVVL041725

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

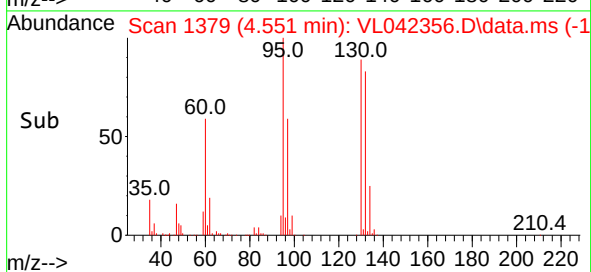
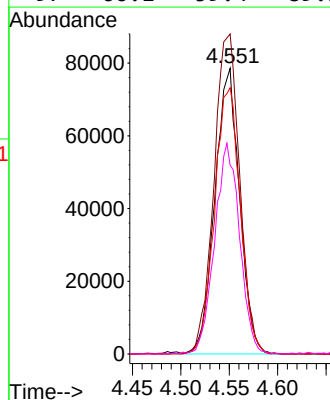
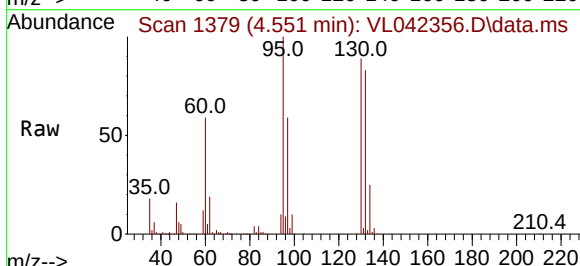
Ion Ratio Lower Upper

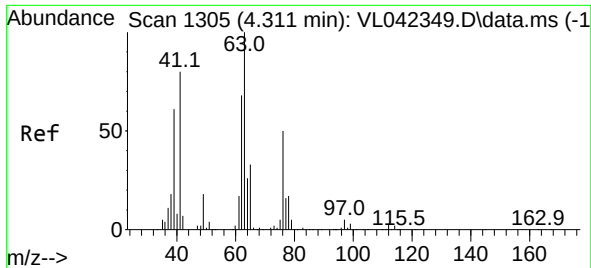
130 100

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

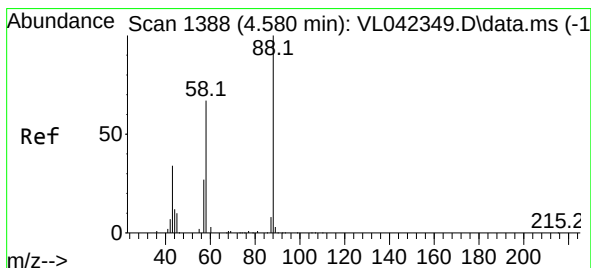
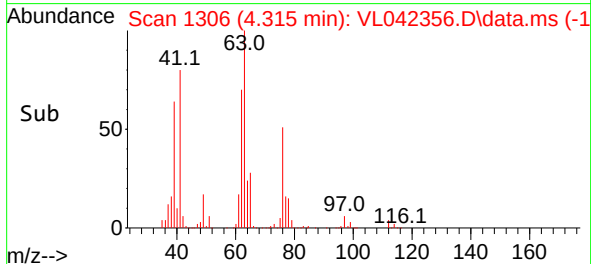
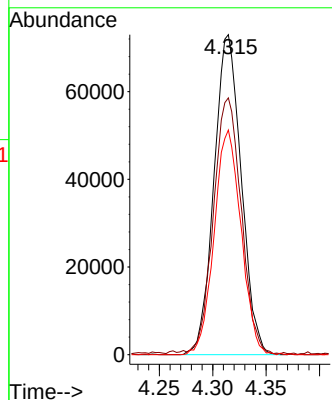
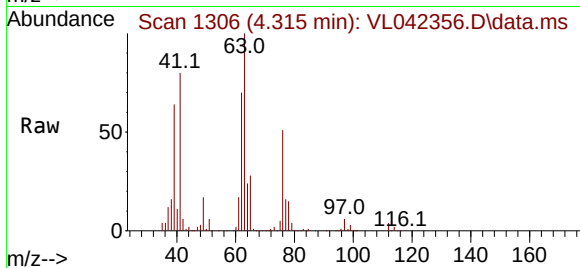
Tgt Ion: 63 Resp: 129239

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

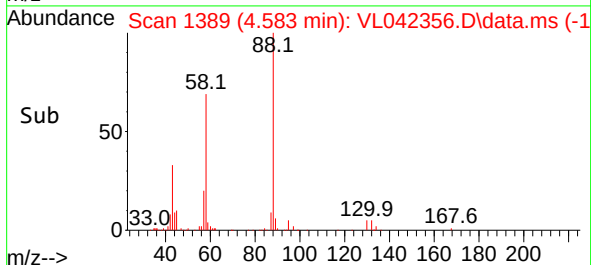
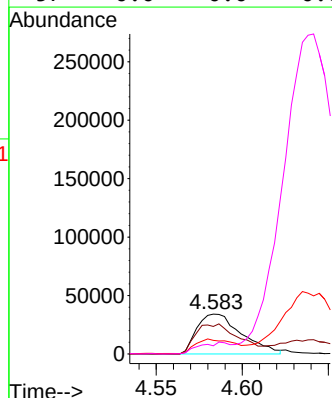
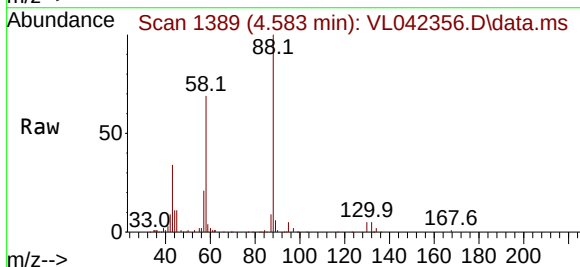
Ion Ratio Lower Upper

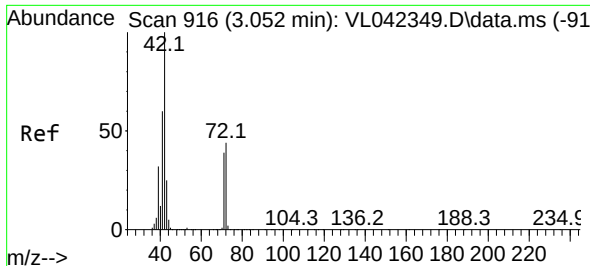
88 100

58 76.1 61.4 92.0

43 35.9 23.2 34.8#

57 0.0 0.0 0.0

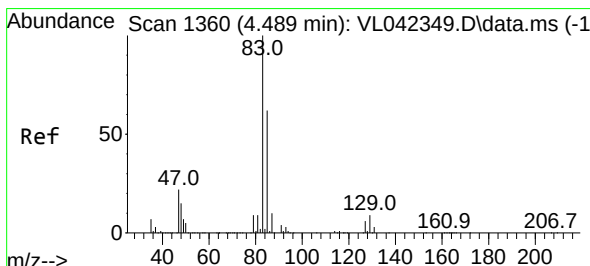
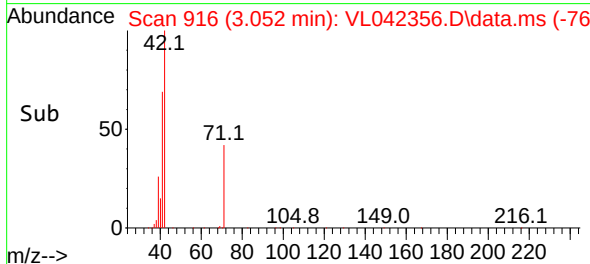
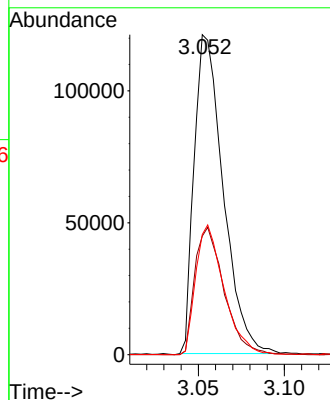
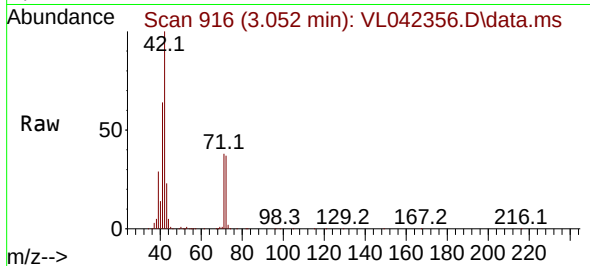




#41
Tetrahydrofuran
Concen: 9.479 ppbv
RT: 3.052 min Scan# 916
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

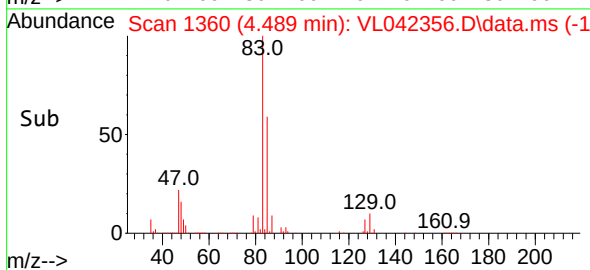
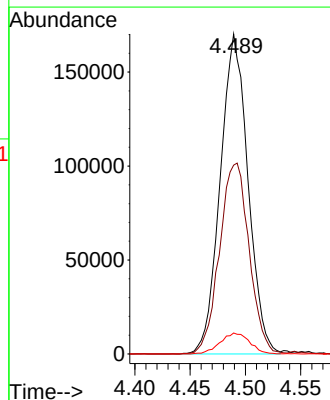
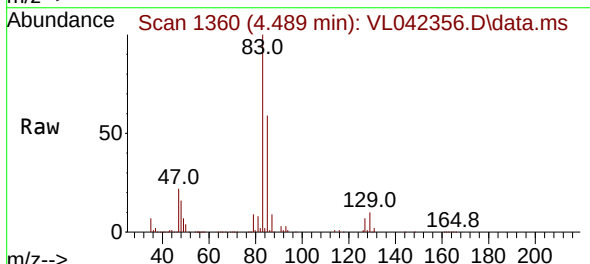
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

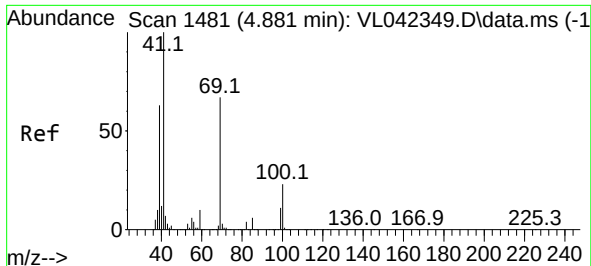
Tgt Ion: 42 Resp: 141861
Ion Ratio Lower Upper
42 100
72 40.2 32.3 48.5
71 39.8 31.4 47.2



#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

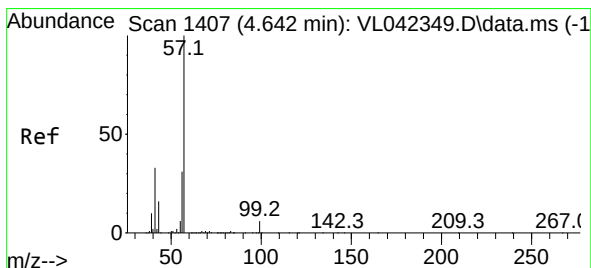
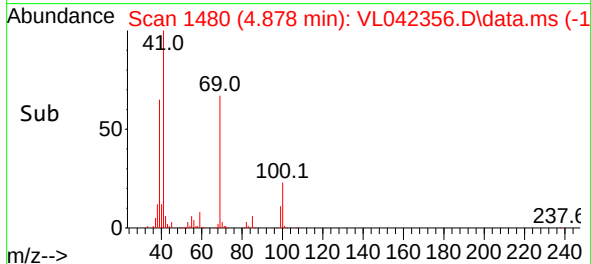
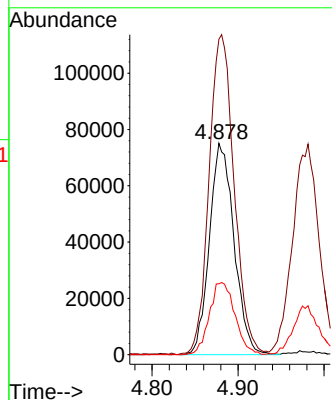
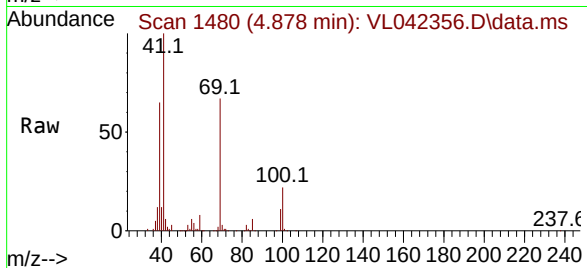
Tgt Ion: 69 Resp: 149209

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

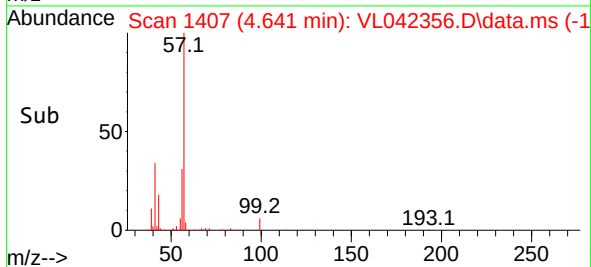
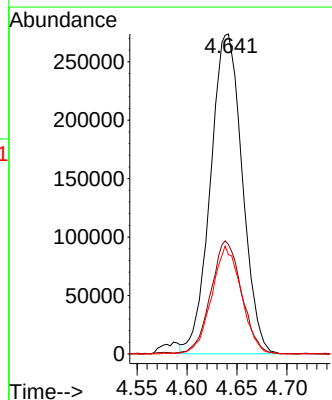
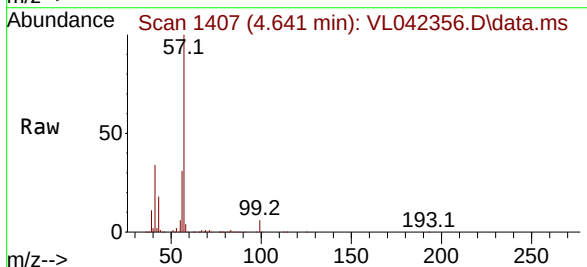
Tgt Ion: 57 Resp: 606376

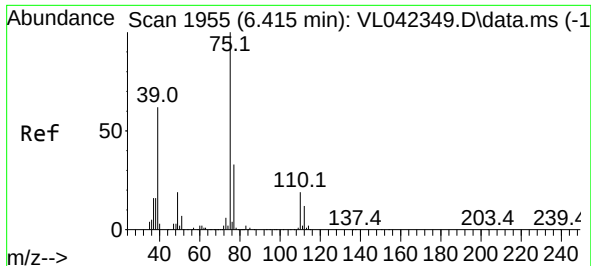
Ion Ratio Lower Upper

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 :

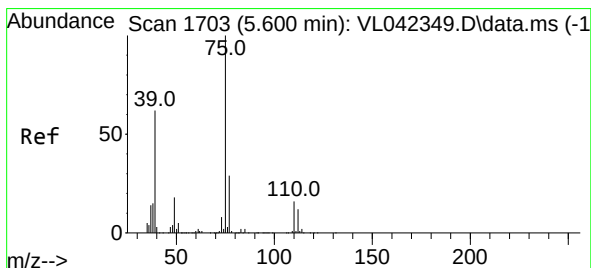
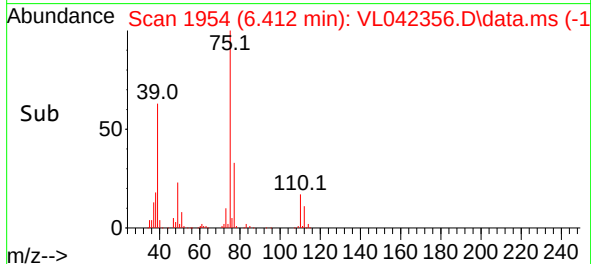
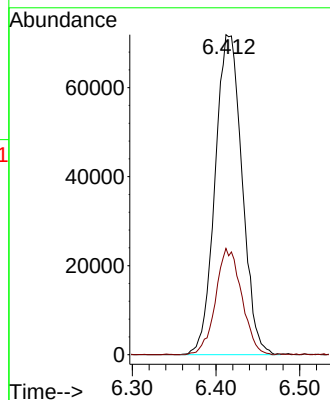
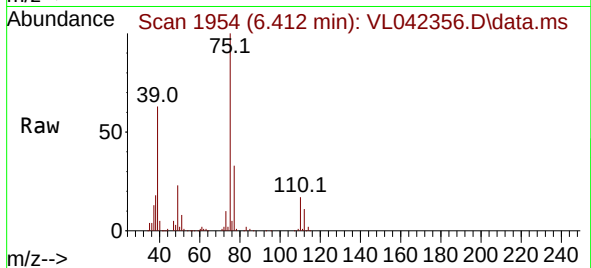
ICVVL041725

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

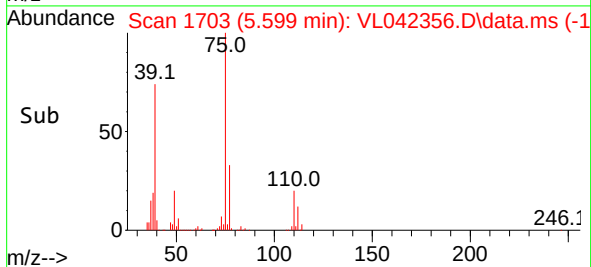
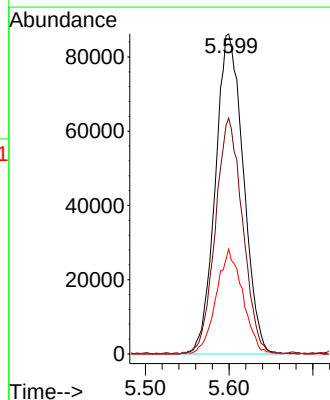
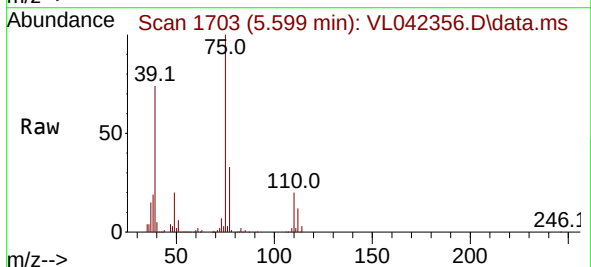
Tgt Ion: 75 Resp: 200144

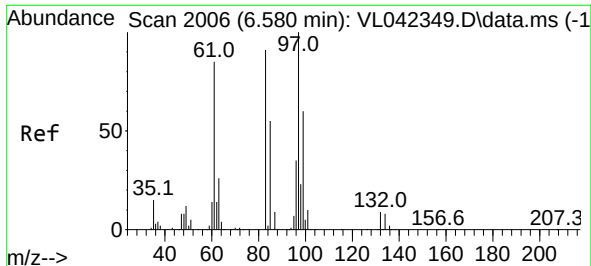
Ion Ratio Lower Upper

75 100

39 73.7 50.0 75.0

77 32.7 23.0 34.6

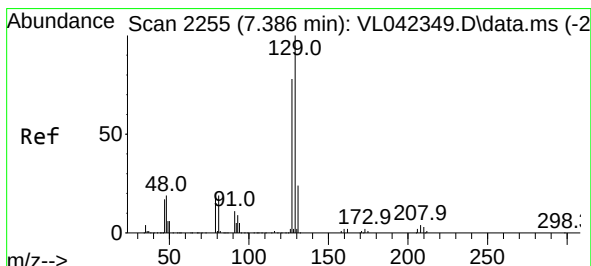
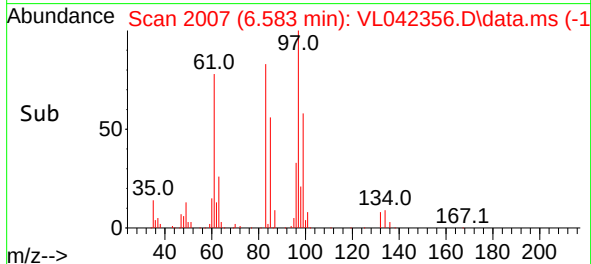
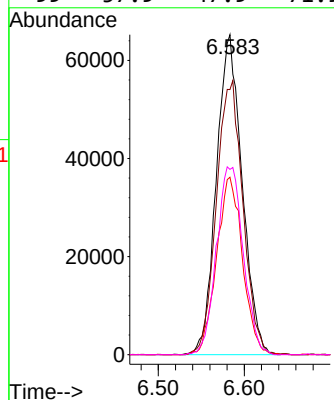
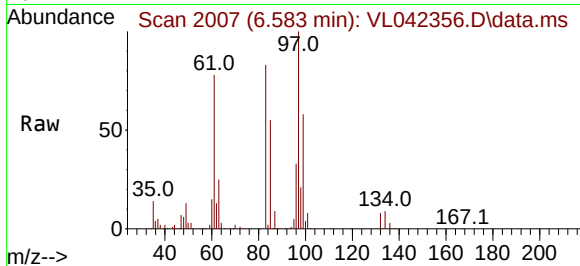




#47
1,1,2-Trichloroethane
Concen: 10.202 ppbv
RT: 6.583 min Scan# 2006
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

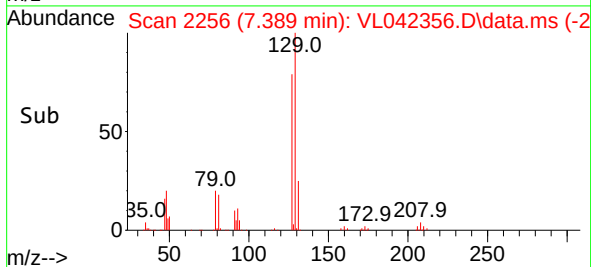
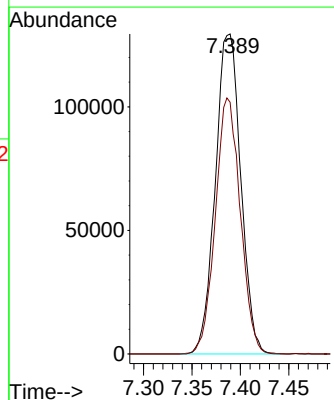
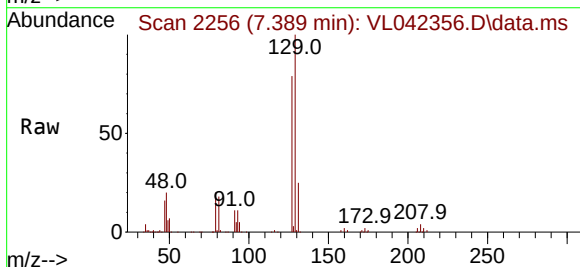
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

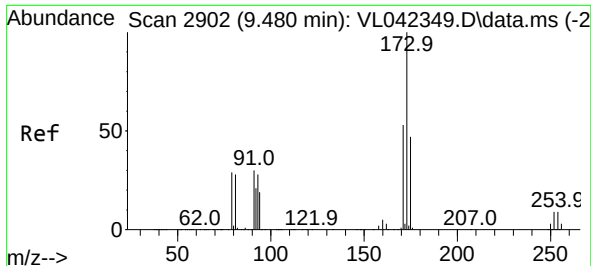
Tgt Ion:	97	Resp:	135575
Ion	Ratio	Lower	Upper
97	100		
83	82.8	72.8	109.2
85	55.5	44.2	66.4
99	57.9	47.9	71.9



#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

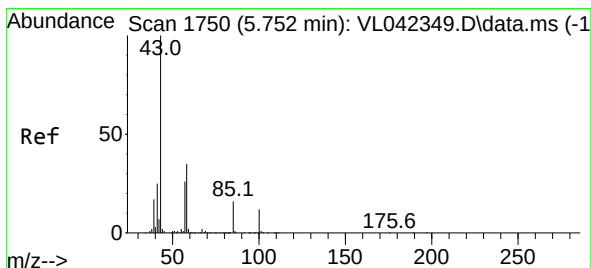
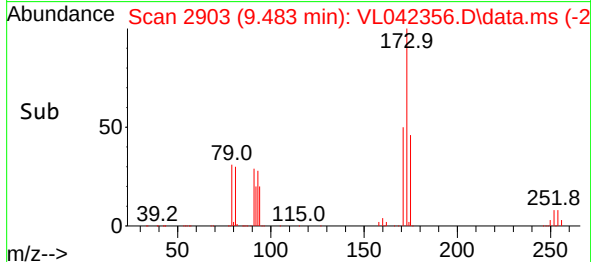
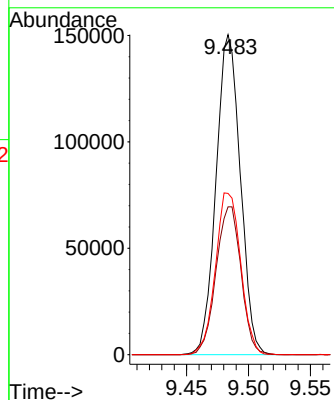
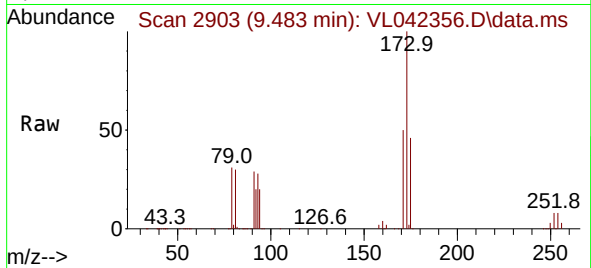




#49
Bromoform
Concen: 10.016 ppbv
RT: 9.483 min Scan# 2903
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

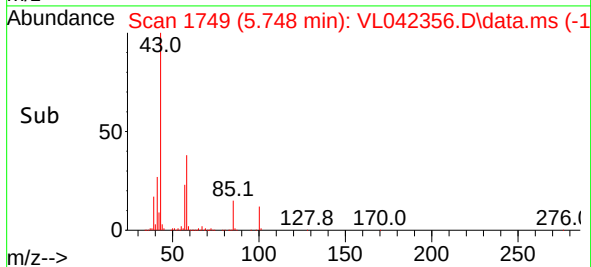
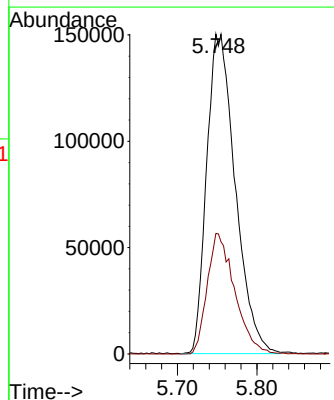
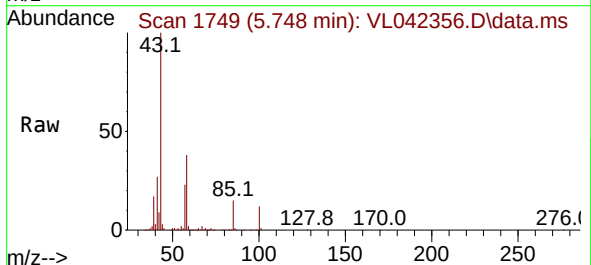
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

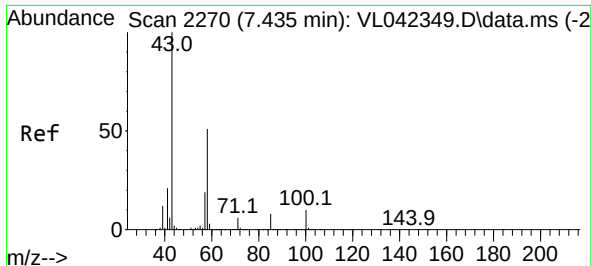
Tgt Ion:173 Resp: 205630
Ion Ratio Lower Upper
173 100
175 47.6 38.2 57.2
171 52.5 40.9 61.3



#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

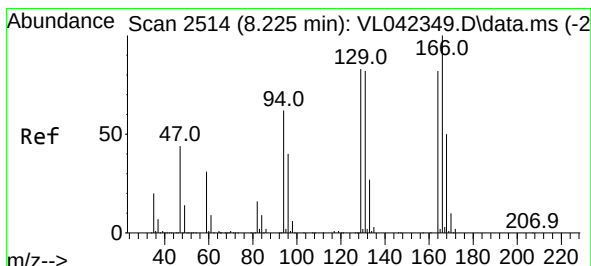
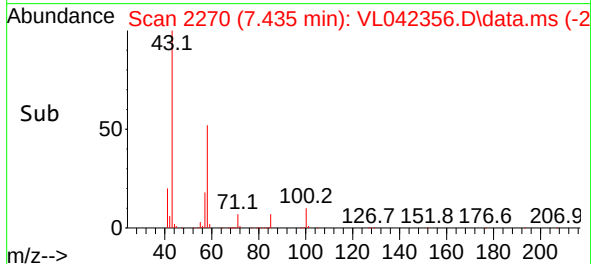
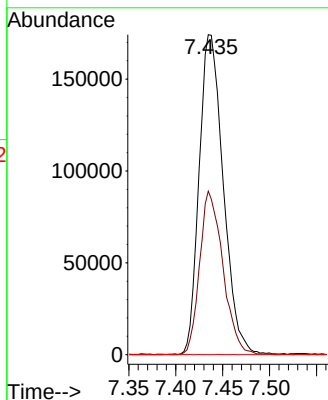
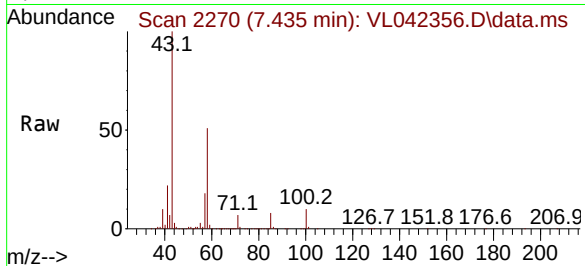




#51
2-Hexanone
Concen: 8.118 ppbv
RT: 7.435 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

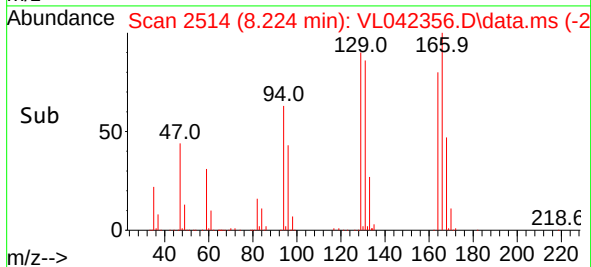
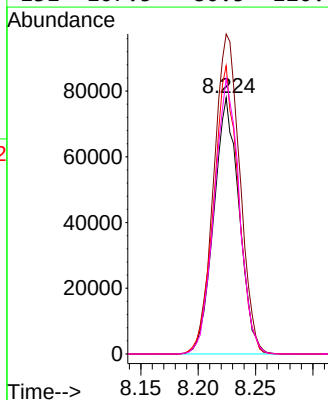
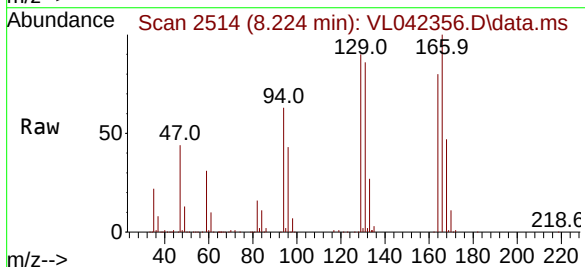
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

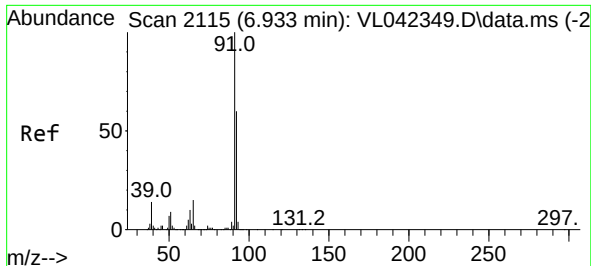
Tgt Ion: 43 Resp: 310521
Ion Ratio Lower Upper
43 100
58 49.3 40.2 60.4
98 0.0 0.1 0.1#



#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

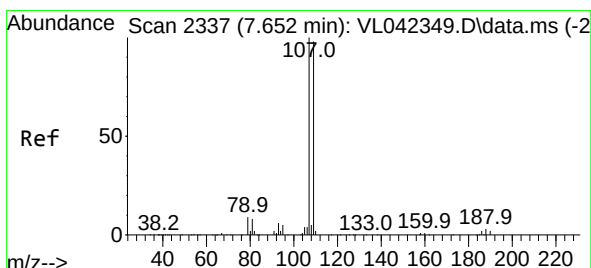
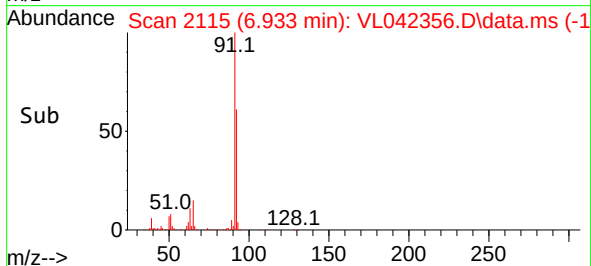
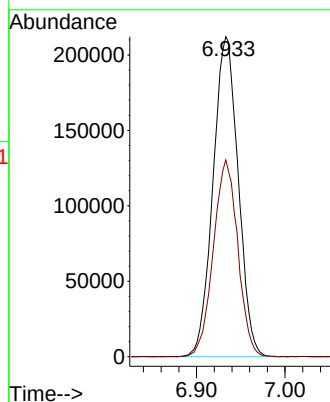
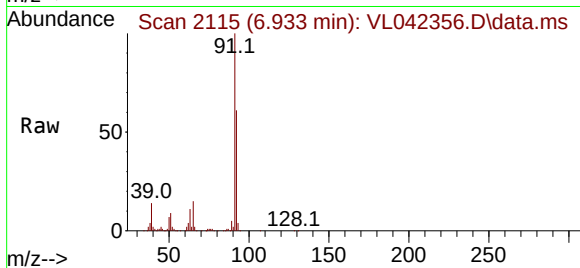




#53
Toluene
Concen: 9.986 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

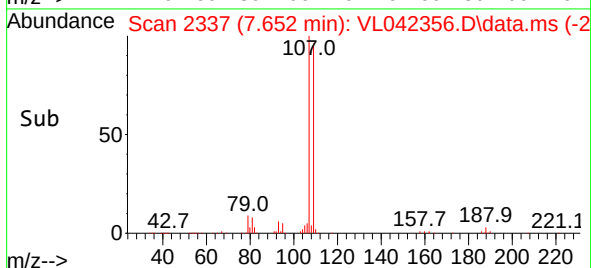
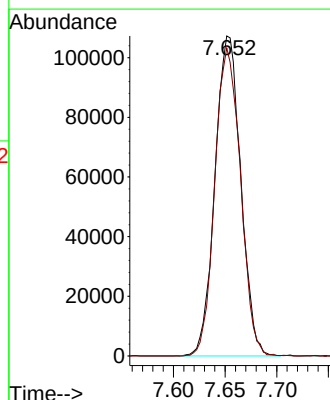
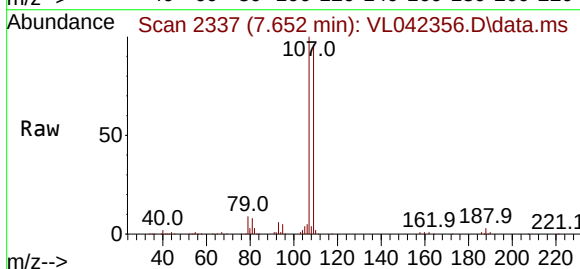
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

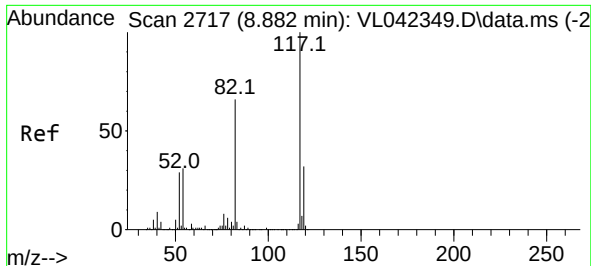
Tgt Ion: 91 Resp: 419462
Ion Ratio Lower Upper
91 100
92 59.6 48.2 72.4



#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

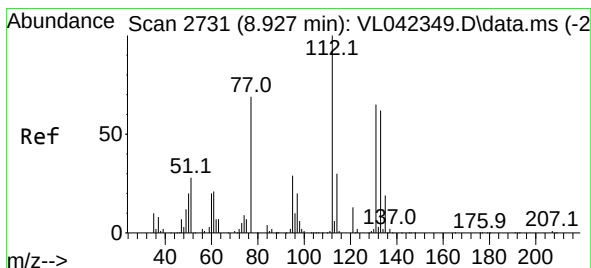
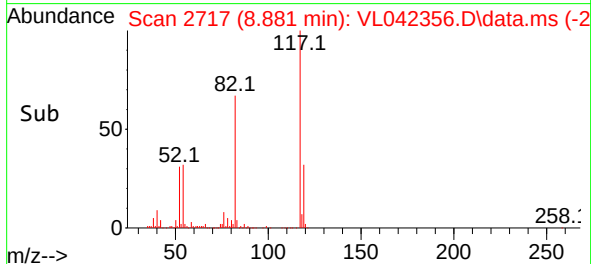
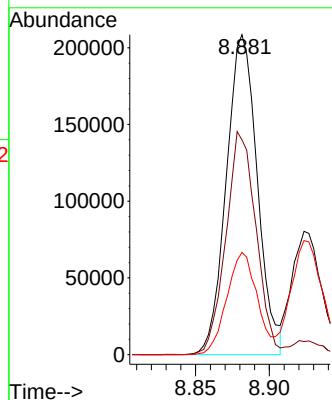
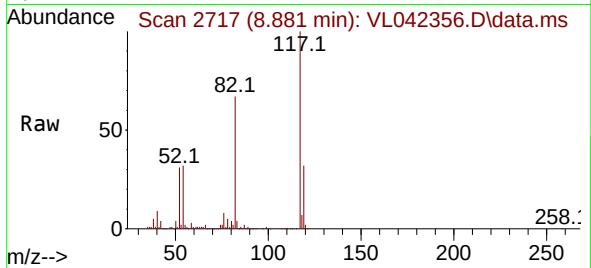




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.881 min Scan# 2717
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

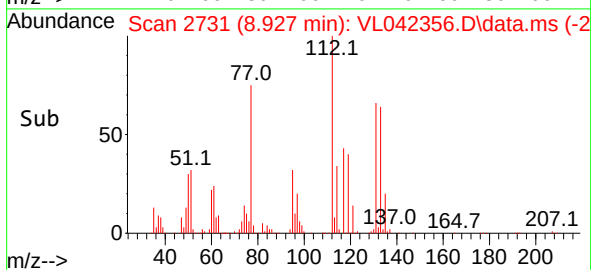
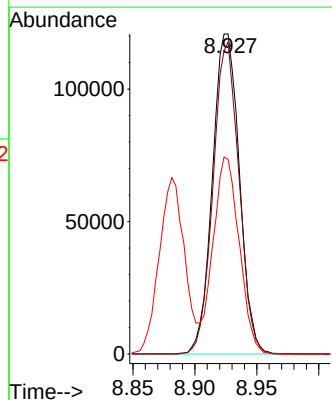
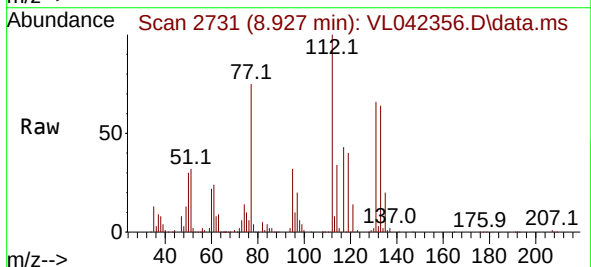
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

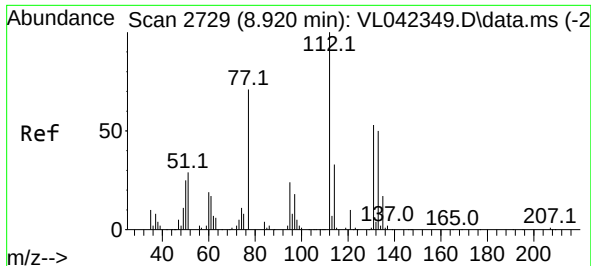
Tgt Ion:117 Resp: 305357
Ion Ratio Lower Upper
117 100
82 68.3 57.8 86.6
119 31.8 25.2 37.8



#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

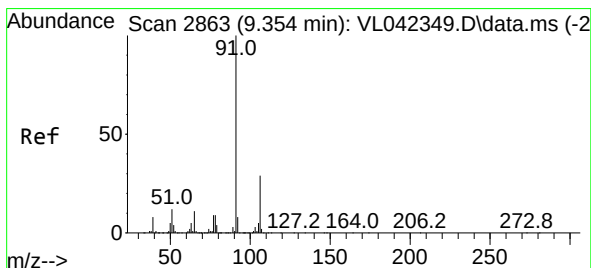
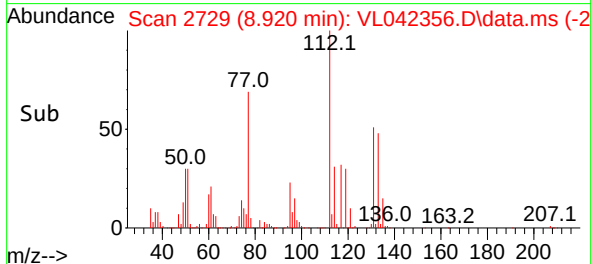
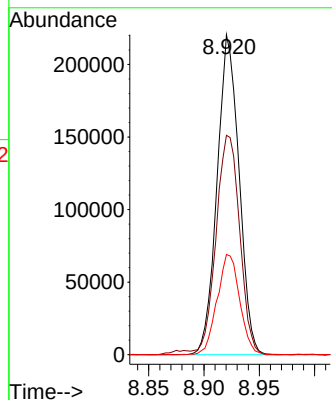
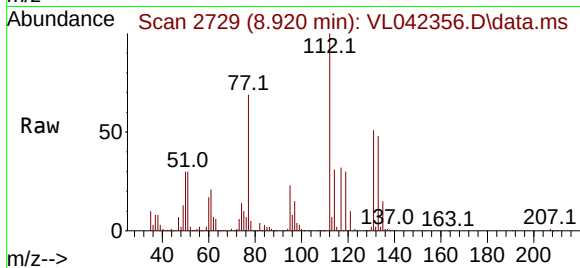




#57
Chlorobenzene
Concen: 9.589 ppbv
RT: 8.920 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

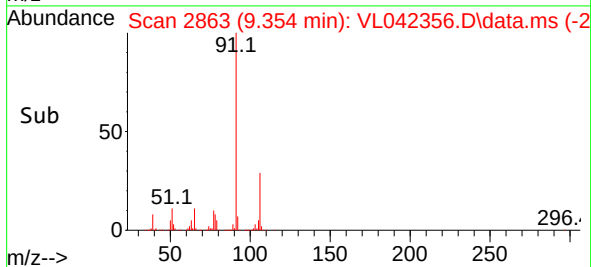
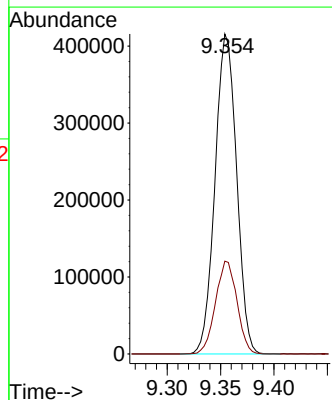
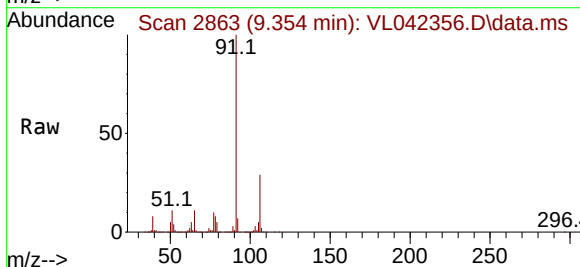
Instrument :
MSVOA_1
ClientSampleId :
ICVVL041725

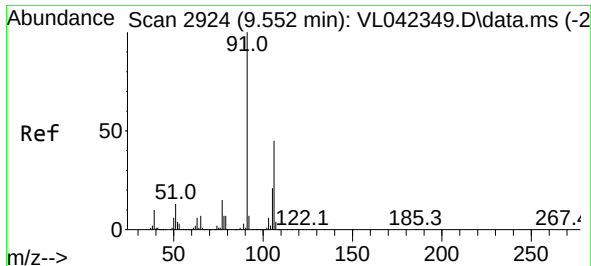
Tgt Ion:112 Resp: 304533
Ion Ratio Lower Upper
112 100
77 68.5 57.8 86.6
114 31.3 29.3 35.9



#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 :

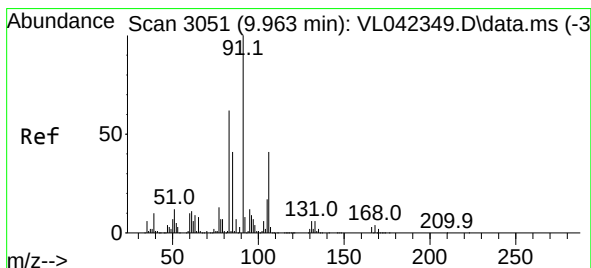
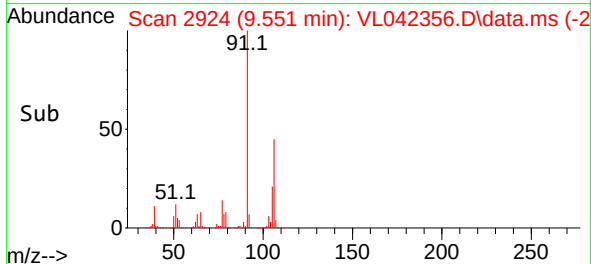
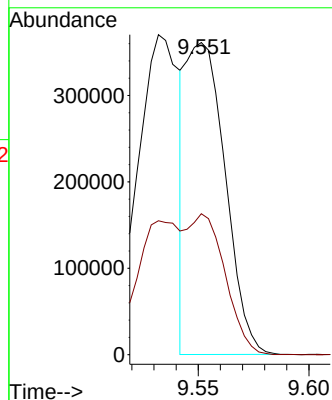
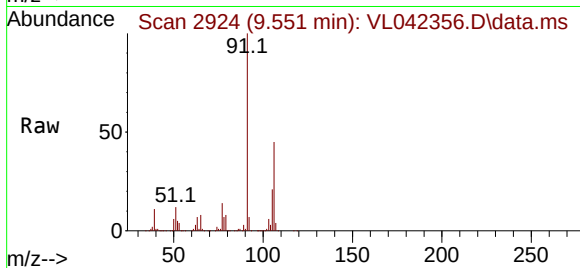
ICVVL041725

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

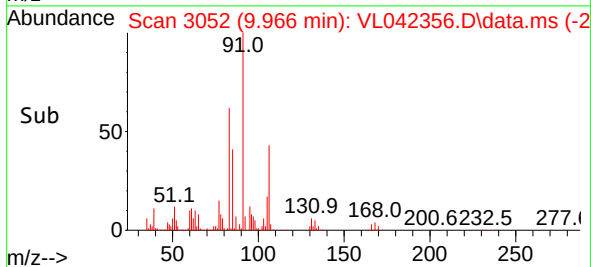
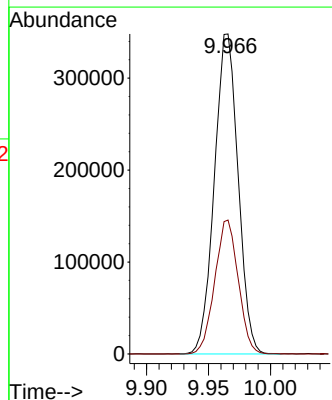
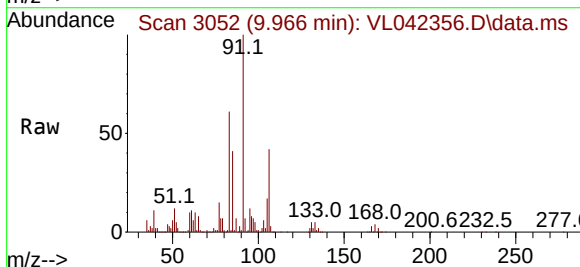
Acq: 17 Apr 2025 13:43

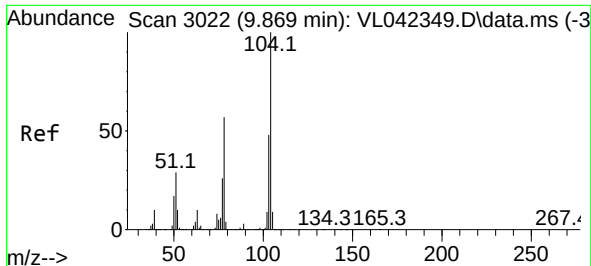
Tgt Ion: 91 Resp: 464522

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

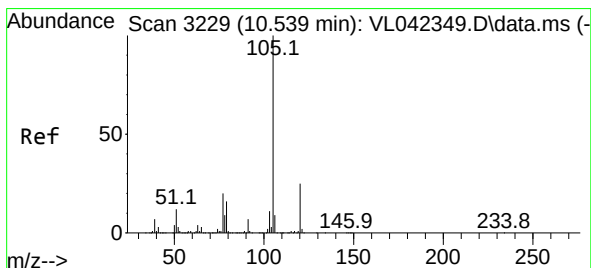
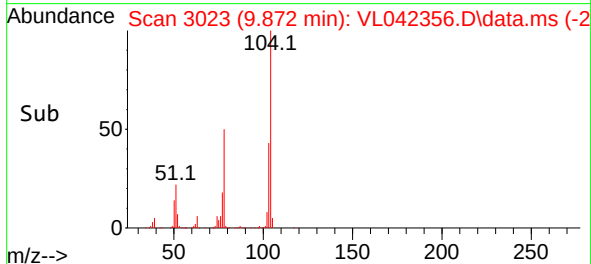
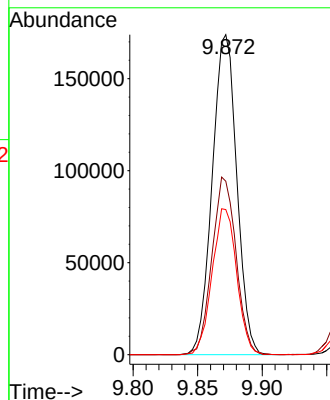
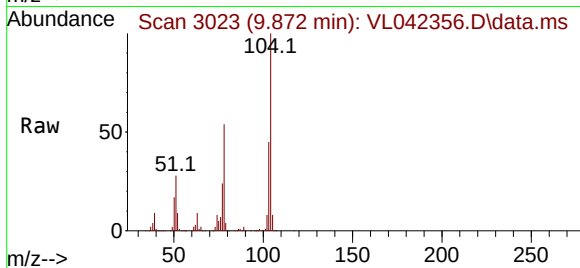
Tgt Ion:104 Resp: 229869

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

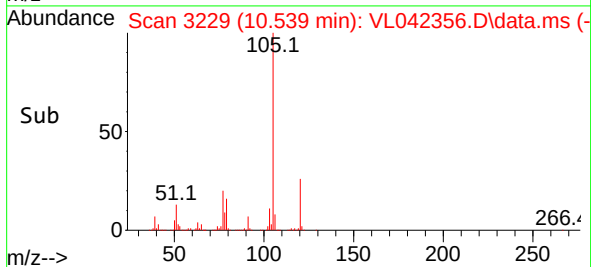
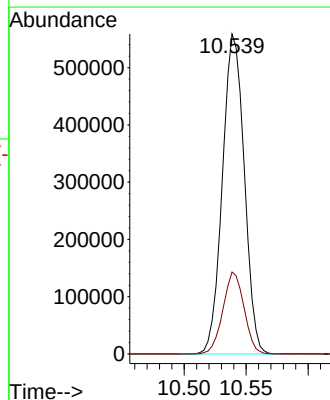
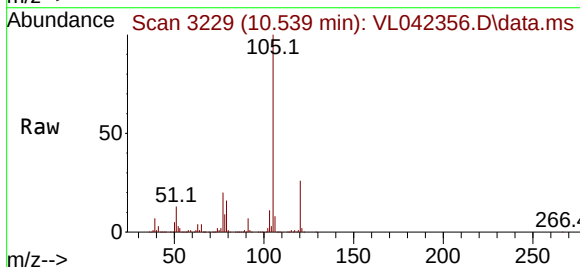
Acq: 17 Apr 2025 13:43

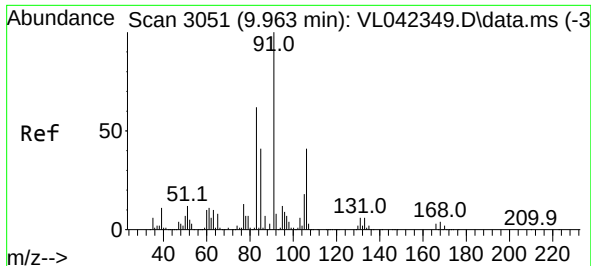
Tgt Ion:105 Resp: 685965

Ion Ratio Lower Upper

105 100

120 24.8 19.8 29.8

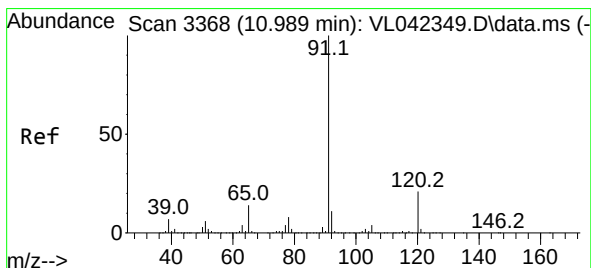
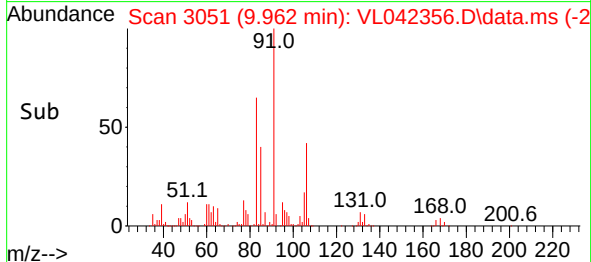
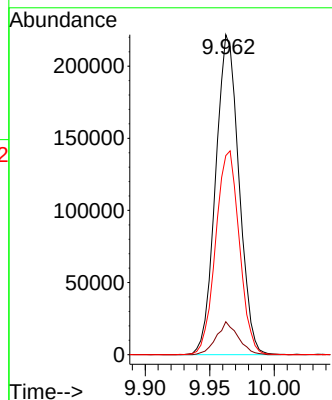
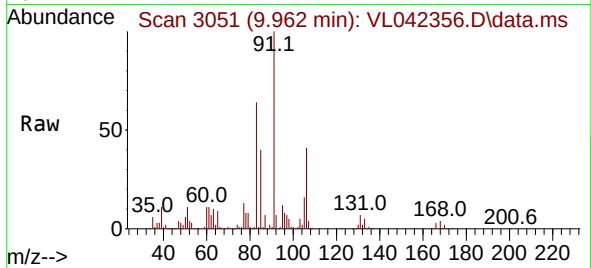




#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.773 ppbv
 RT: 9.962 min Scan# 3051
 Delta R.T. -0.000 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

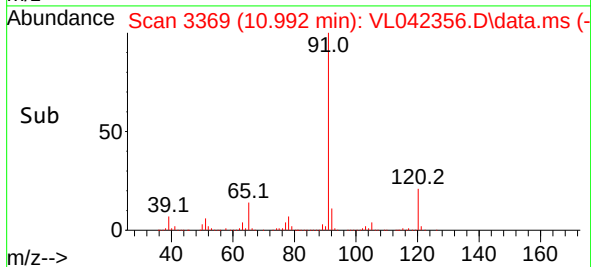
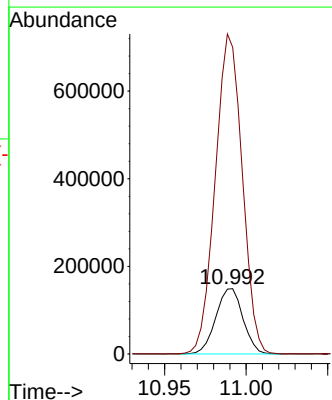
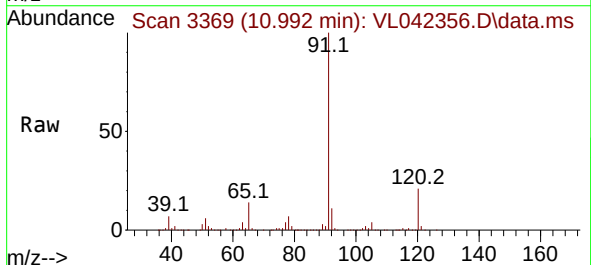
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL041725

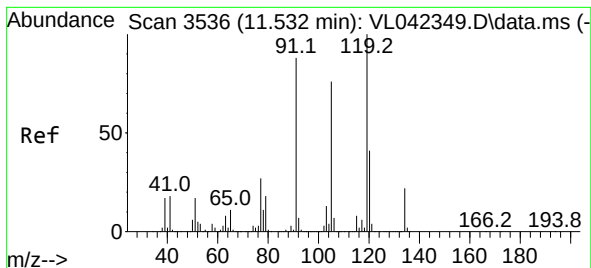
Tgt Ion: 83 Resp: 279007
 Ion Ratio Lower Upper
 83 100
 131 9.6 4.5 13.7
 85 64.6 32.4 97.0



#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

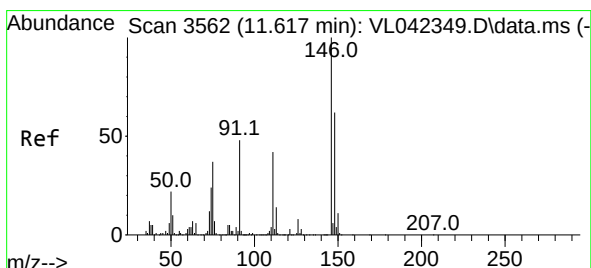
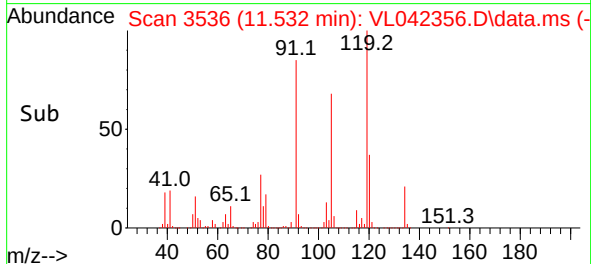
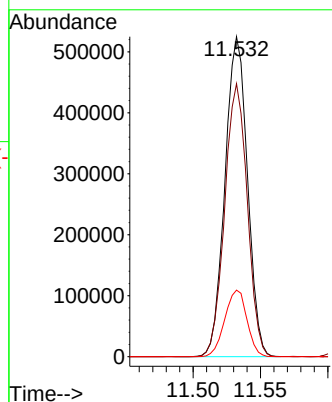
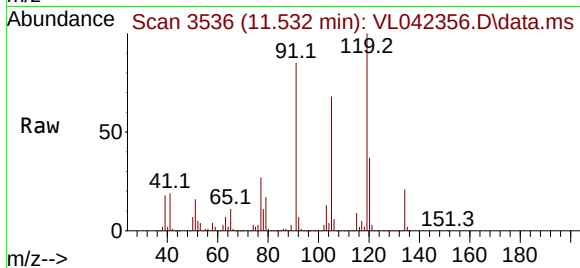
Tgt Ion:119 Resp: 609500

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

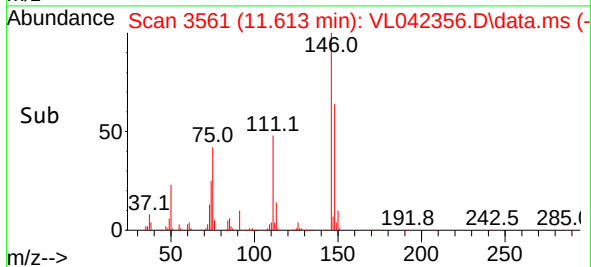
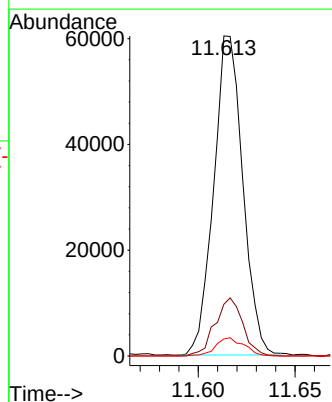
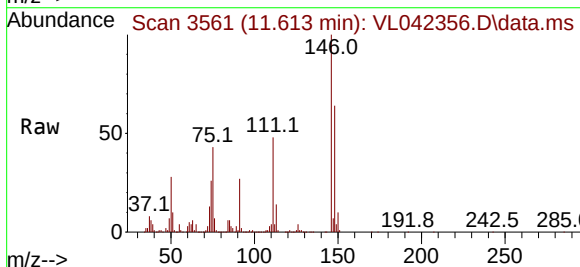
Tgt Ion: 91 Resp: 63051

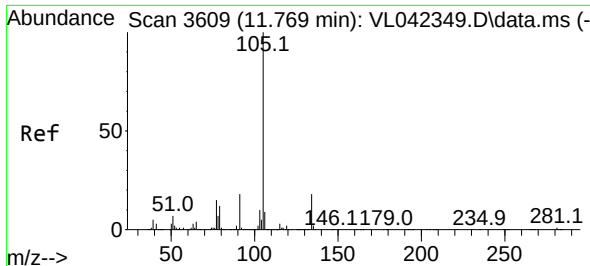
Ion Ratio Lower Upper

91 100

126 17.3 11.8 17.6

128 5.6 4.5 6.7

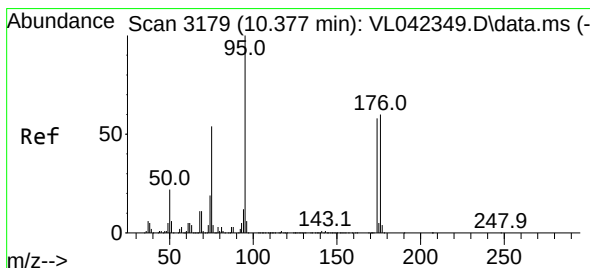
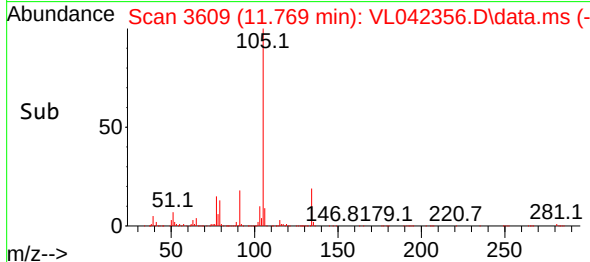
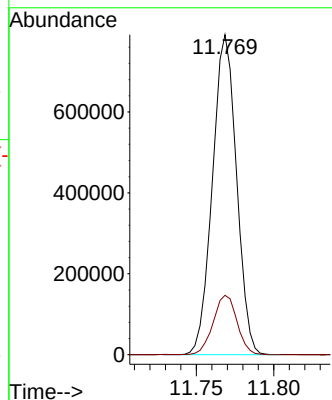
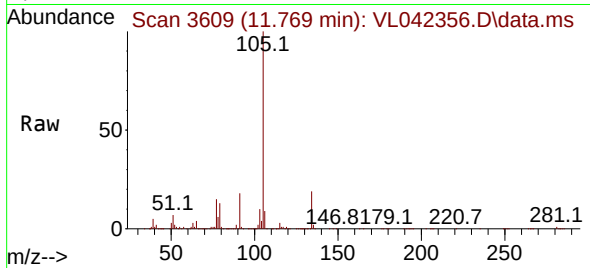




#67
 sec-Butylbenzene
 Concen: 9.268 ppbv
 RT: 11.769 min Scan# 3609
 Delta R.T. -0.000 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

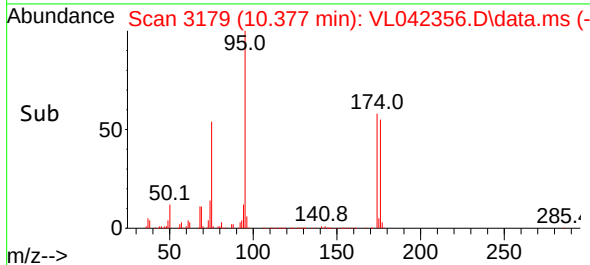
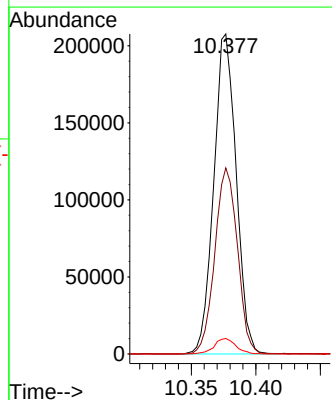
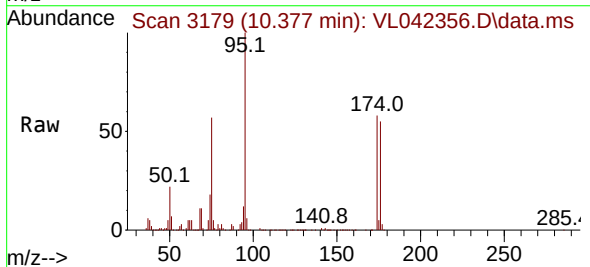
Instrument :
 MSVOA_1
 ClientSampleId :
 ICVVL041725

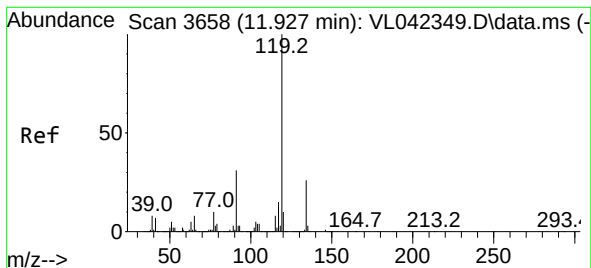
Tgt Ion:105 Resp: 853807
 Ion Ratio Lower Upper
 105 100
 134 18.5 14.6 21.8



#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

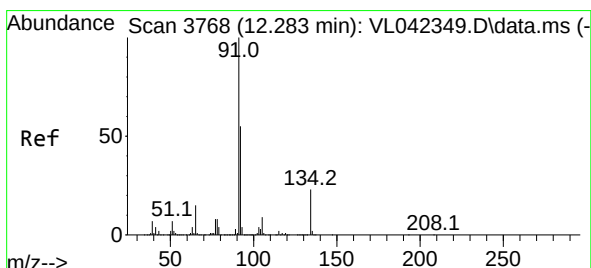
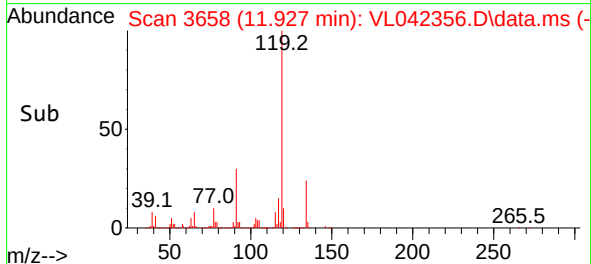
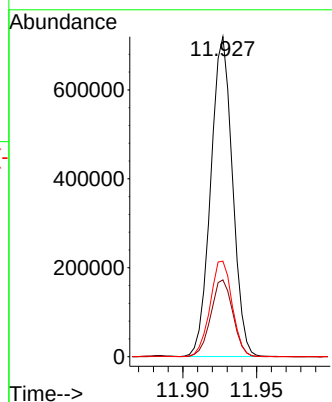
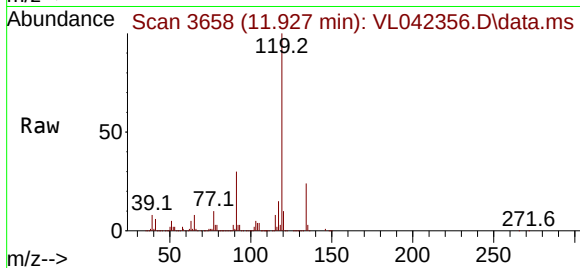




#69
p-Isopropyltoluene
Concen: 9.220 ppbv
RT: 11.927 min Scan# 3658
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

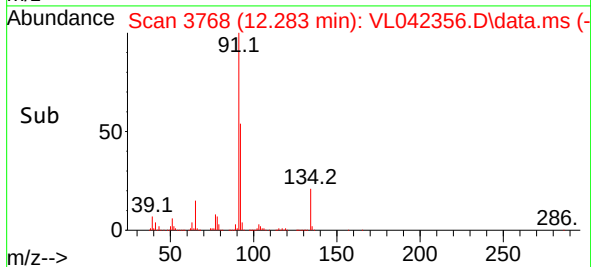
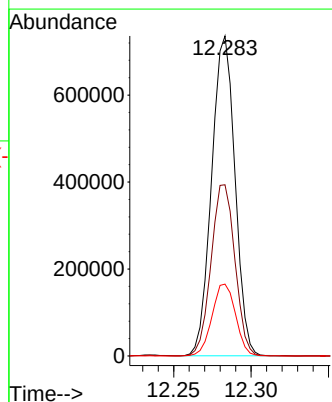
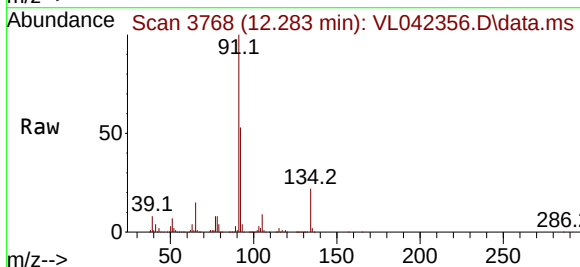
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

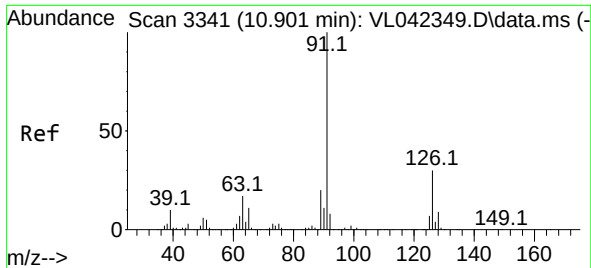
Tgt Ion: 119 Resp: 737861
Ion Ratio Lower Upper
119 100
134 24.5 20.0 30.0
91 30.6 24.4 36.6



#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

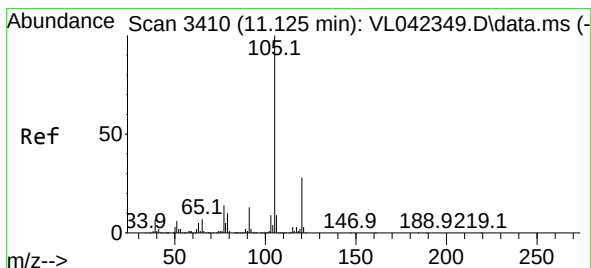
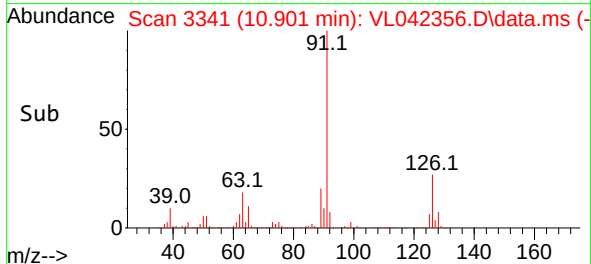
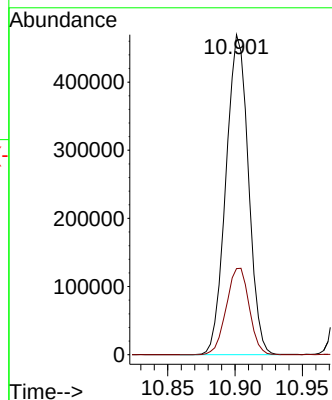
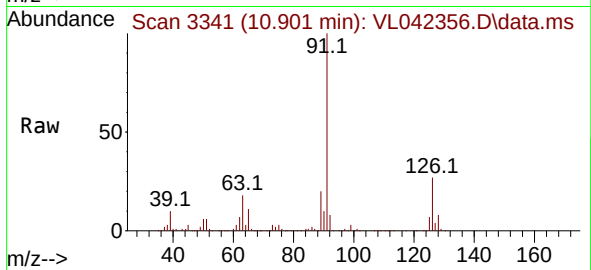




#71
2-Chlorotoluene
Concen: 9.622 ppbv
RT: 10.901 min Scan# 31
Delta R.T. -0.000 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

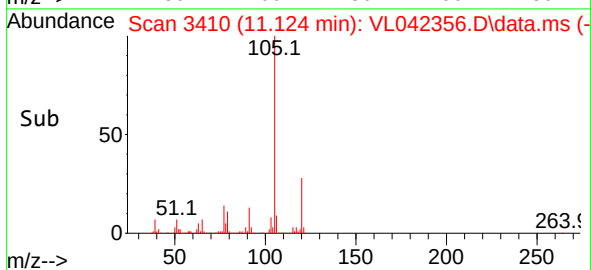
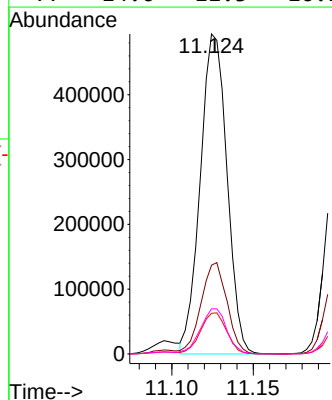
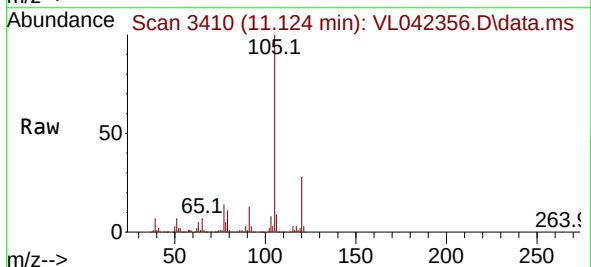
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

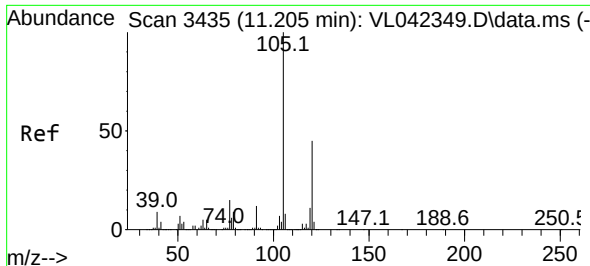
Tgt Ion: 91 Resp: 543794
Ion Ratio Lower Upper
91 100
126 27.5 11.4 45.4



#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

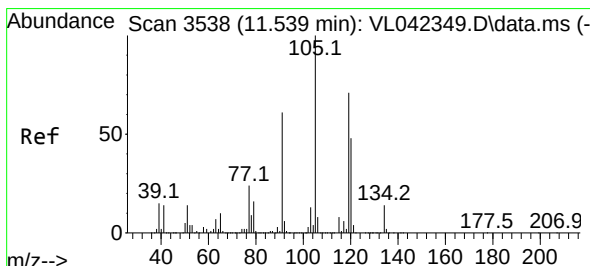
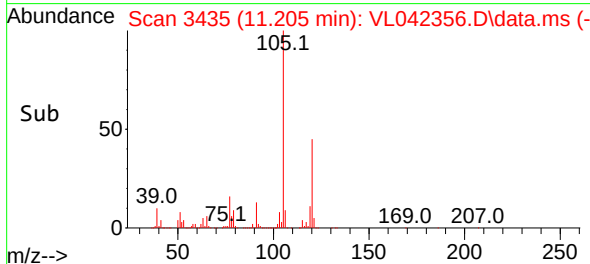
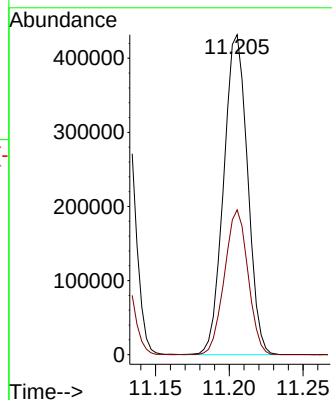
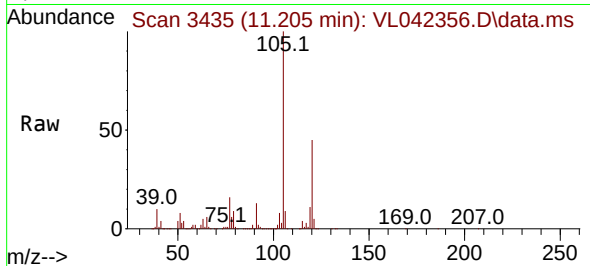




#73
 1,3,5-Trimethylbenzene
 Concen: 9.186 ppbv
 RT: 11.205 min Scan# 3435
 Delta R.T. -0.000 min
 Lab File: VL042356.D
 Acq: 17 Apr 2025 13:43

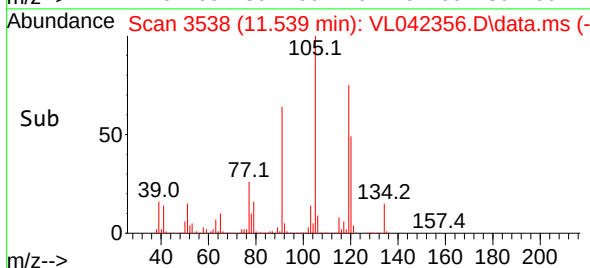
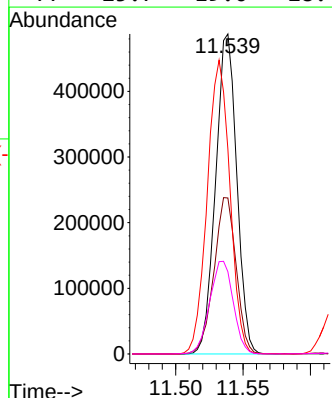
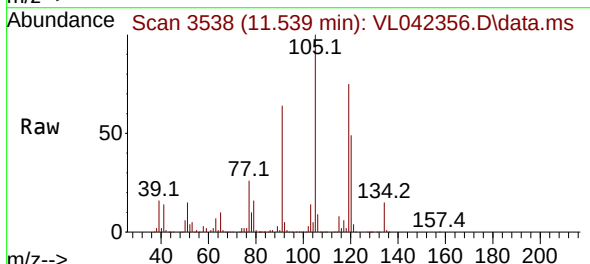
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL041725

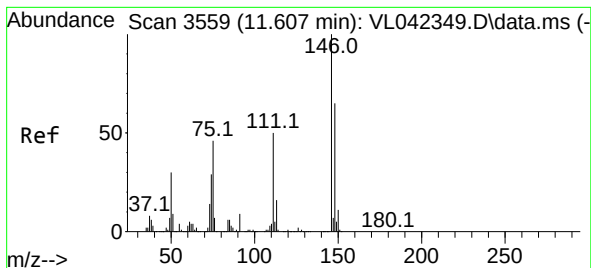
Tgt Ion:105 Resp: 486583
 Ion Ratio Lower Upper
 105 100
 120 45.2 35.6 53.4



#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# 3559

Delta R.T. 0.003 min

Lab File: VL042356.D

Acq: 17 Apr 2025 13:43

Instrument :

MSVOA_L

ClientSampleId :

ICVVL041725

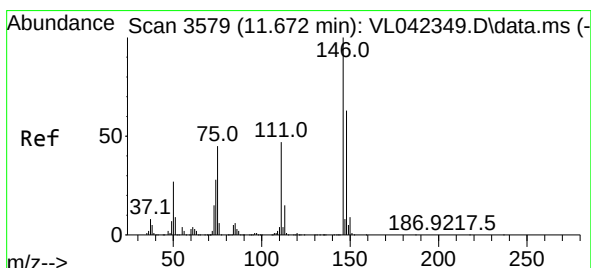
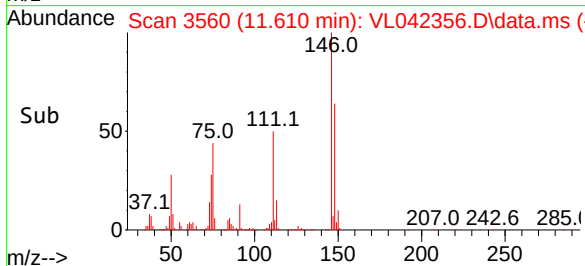
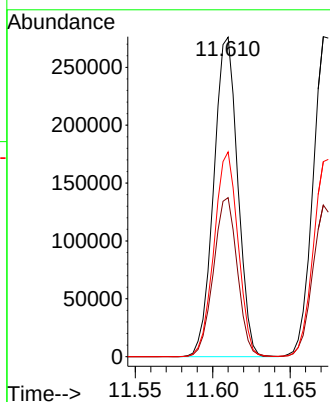
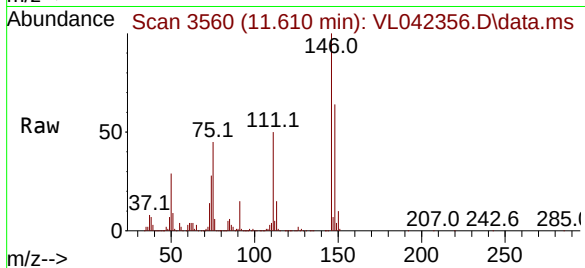
Tgt Ion:146 Resp: 297157

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

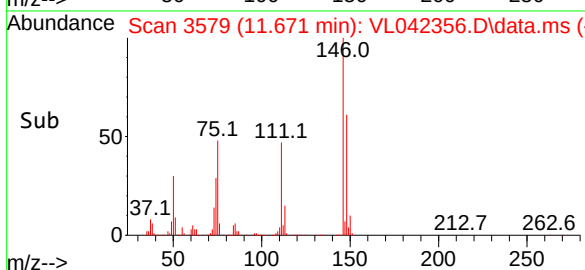
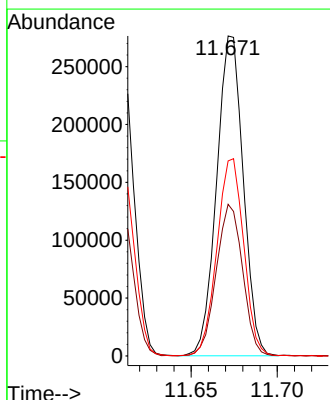
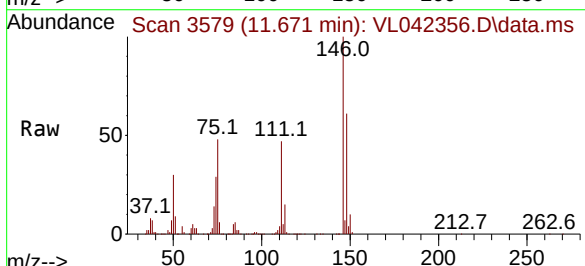
Tgt Ion:146 Resp: 297697

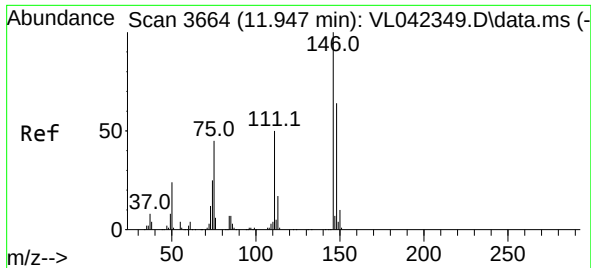
Ion Ratio Lower Upper

146 100

111 47.1 24.2 72.6

148 62.3 32.1 96.5

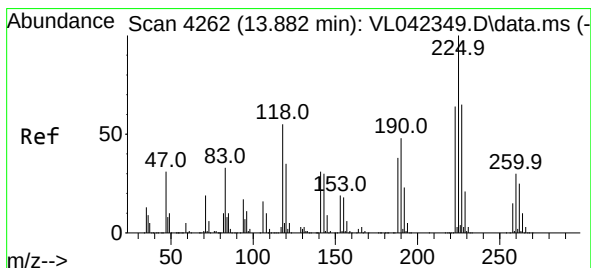
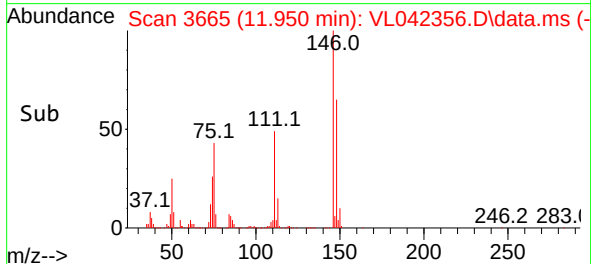
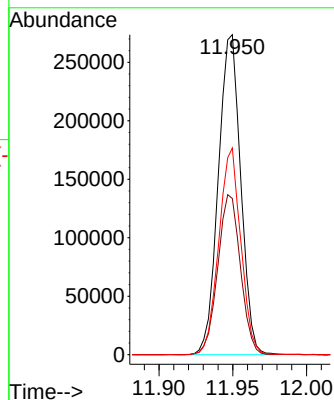
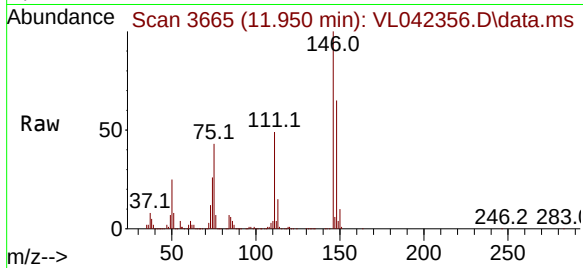




#77
1,2-Dichlorobenzene
Concen: 9.251 ppbv
RT: 11.950 min Scan# 3665
Delta R.T. 0.003 min
Lab File: VL042356.D
Acq: 17 Apr 2025 13:43

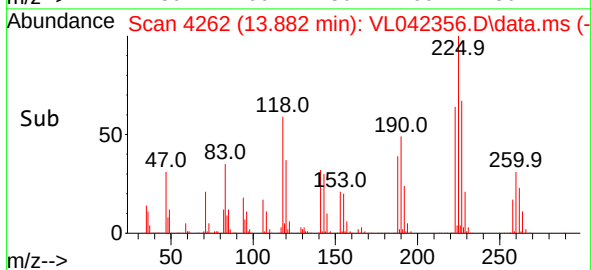
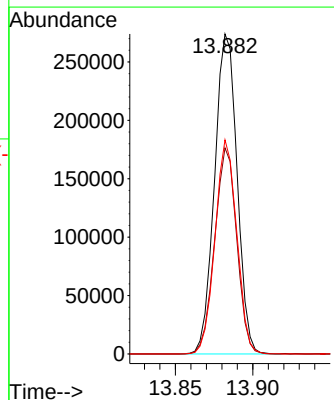
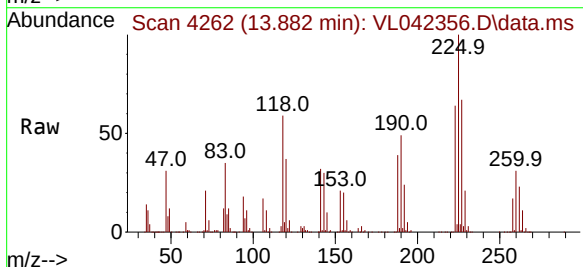
Instrument :
MSVOA_L
ClientSampleId :
ICVVL041725

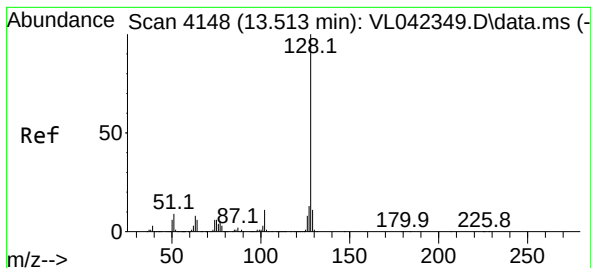
Tgt Ion:146 Resp: 289284
Ion Ratio Lower Upper
146 100
111 50.8 25.3 75.9
148 63.4 31.5 94.5



#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

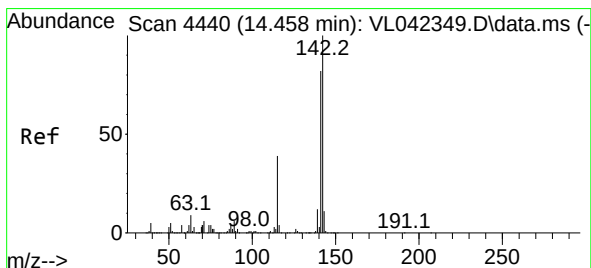
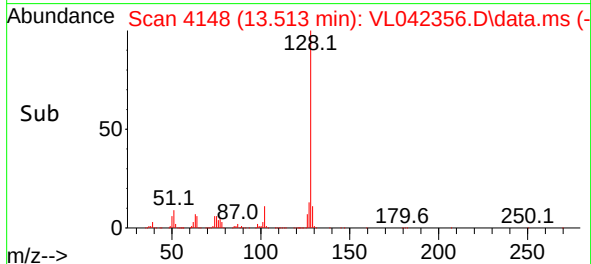
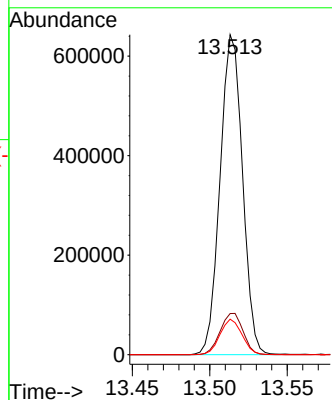
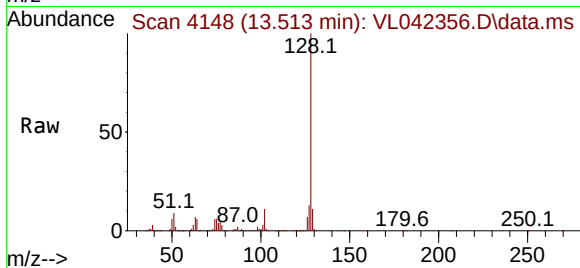
Tgt Ion:128 Resp: 647349

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

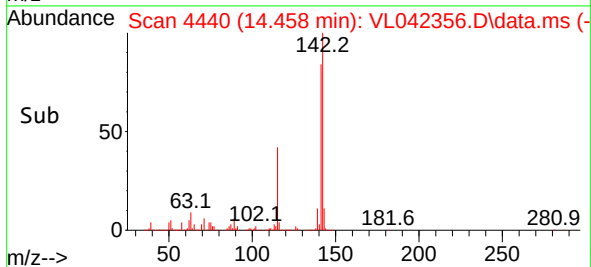
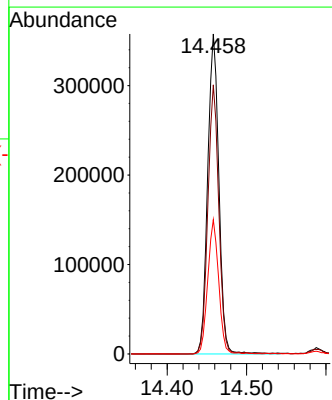
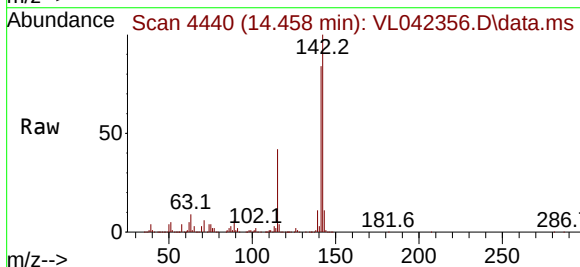
Tgt Ion:142 Resp: 350259

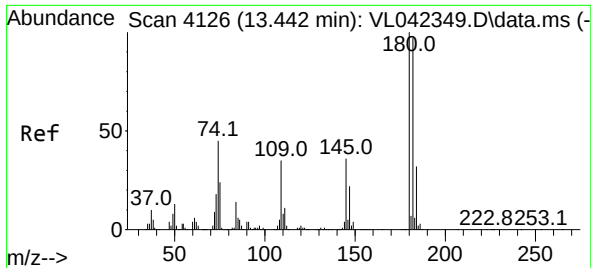
Ion Ratio Lower Upper

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

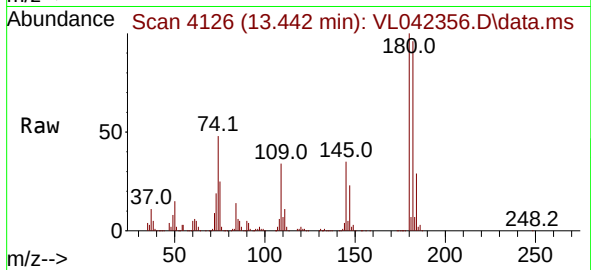
Acq: 17 Apr 2025 13:43

Instrument :

MSVOA_L

ClientSampleId :

ICVVL041725



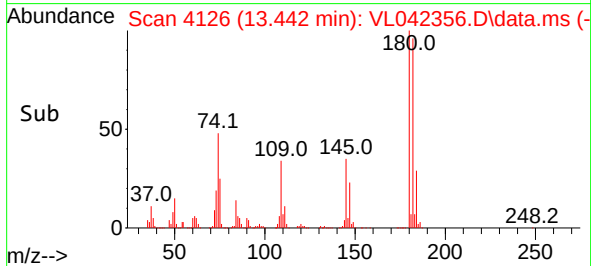
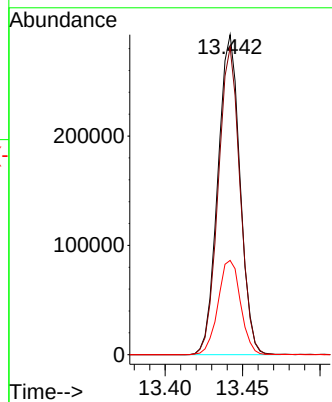
Tgt Ion:180 Resp: 290260

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

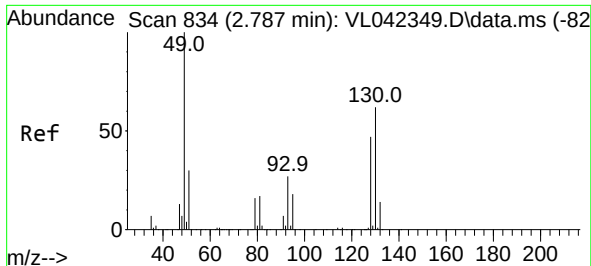
Quant Time: Apr 18 02:36:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 02:14:00 2025
 Response via : Initial Calibration

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

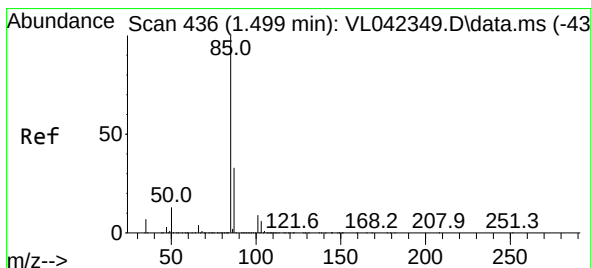
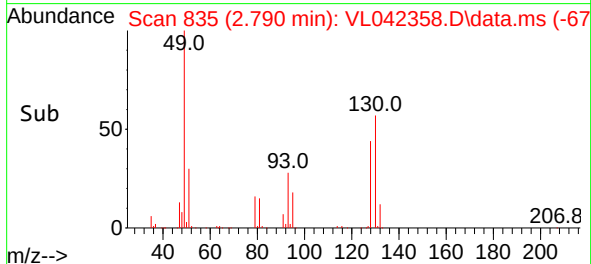
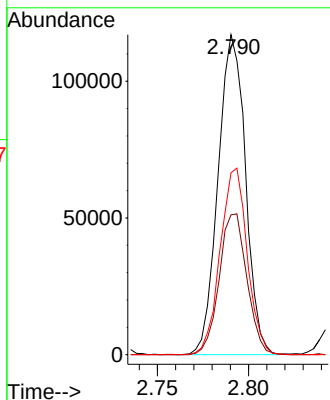
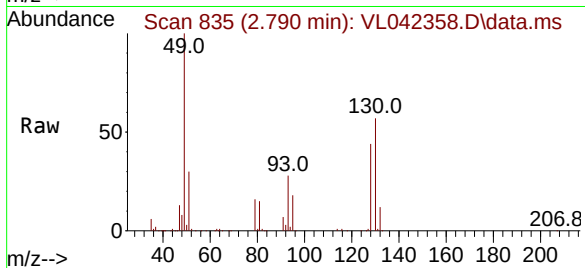




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.790 min Scan# 81
 Delta R.T. 0.003 min
 Lab File: VL042358.D
 Acq: 17 Apr 2025 15:39

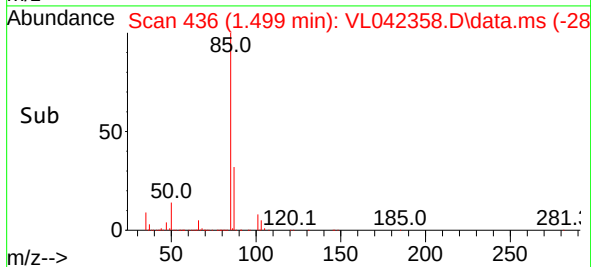
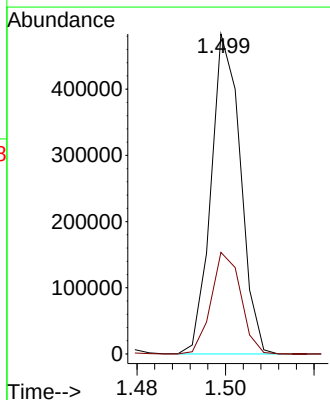
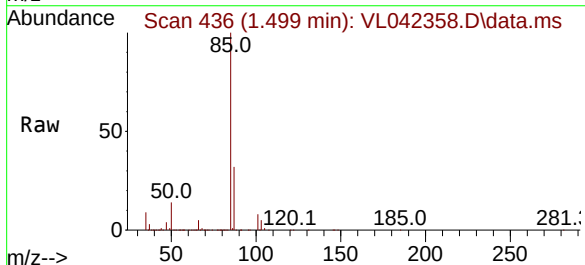
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0417ABS01

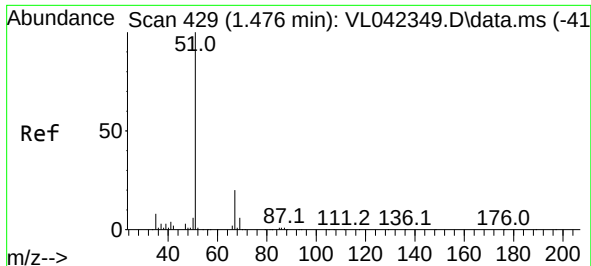
Tgt Ion: 49 Resp: 122375
 Ion Ratio Lower Upper
 49 100
 128 44.5 22.8 68.4
 130 57.6 29.3 88.0



#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

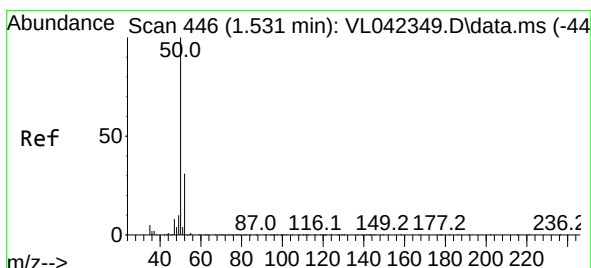
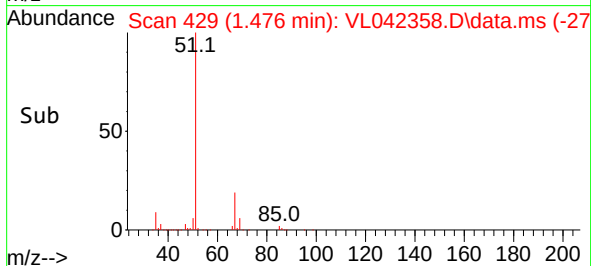
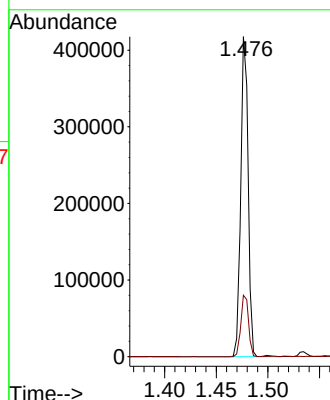
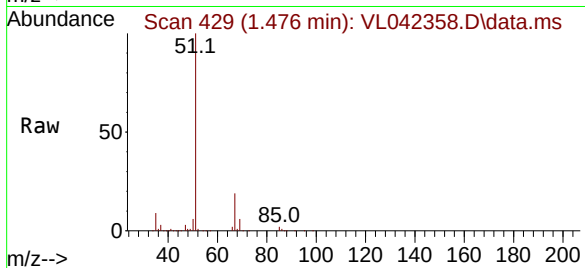




#3
Chlorodifluoromethane
Concen: 10.014 ppbv
RT: 1.476 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

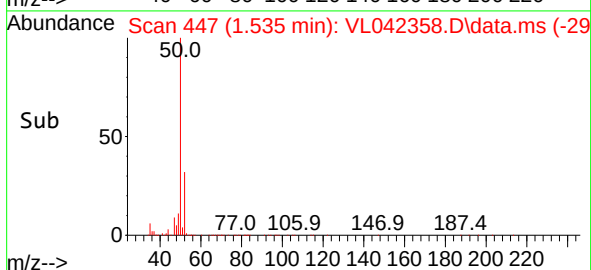
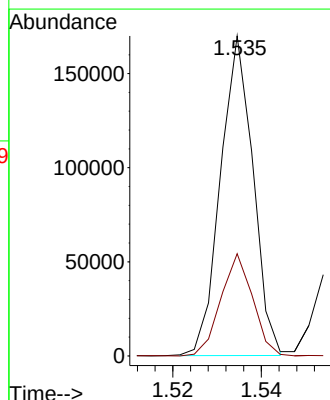
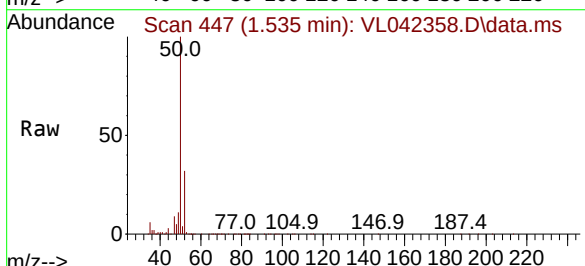
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

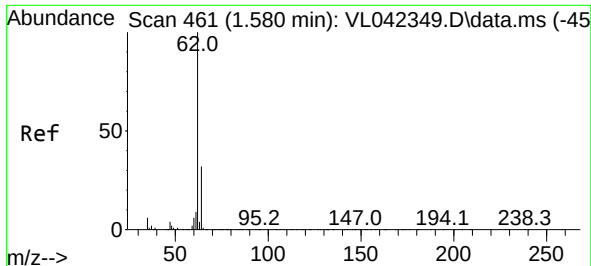
Tgt Ion: 51 Resp: 206172
Ion Ratio Lower Upper
51 100
67 20.2 16.2 24.4



#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

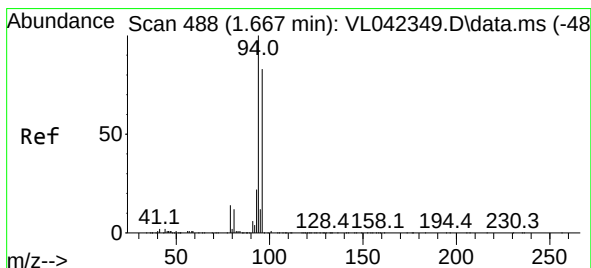
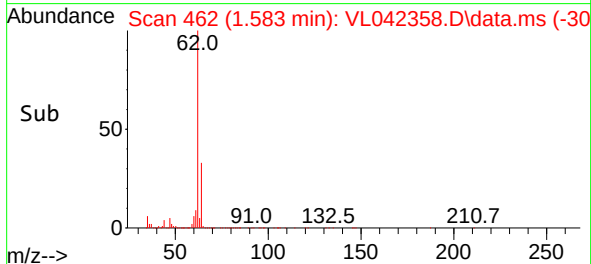
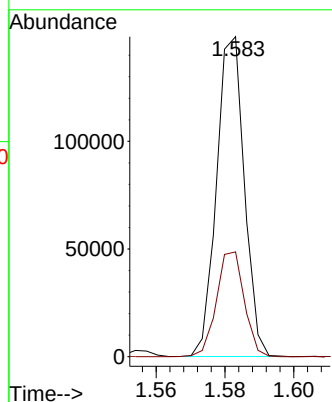
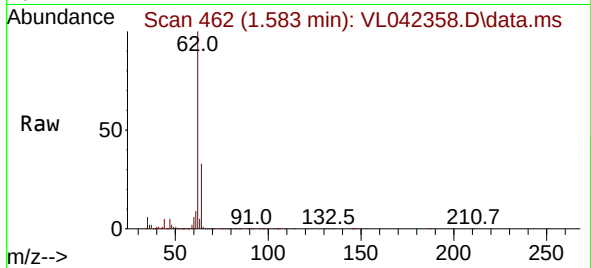




#5
 Vinyl Chloride
 Concen: 8.956 ppbv
 RT: 1.583 min Scan# 461
 Delta R.T. 0.003 min
 Lab File: VL042358.D
 Acq: 17 Apr 2025 15:39

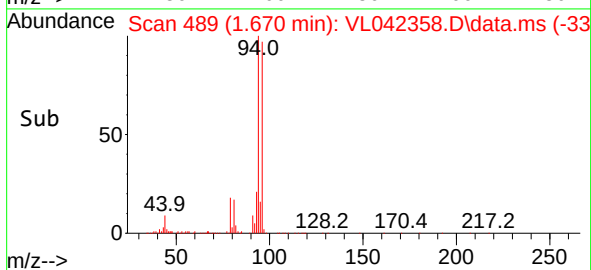
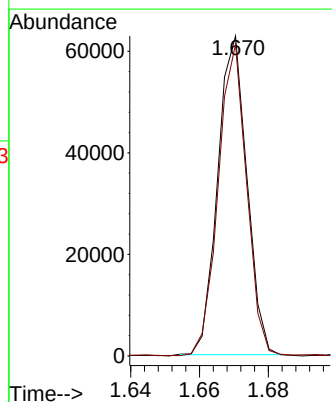
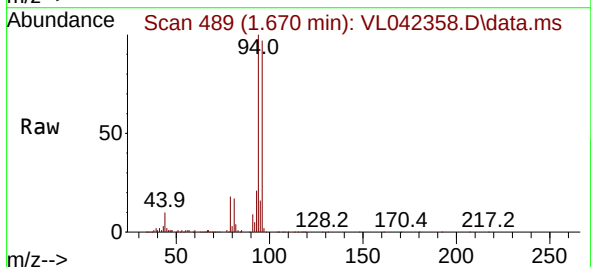
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0417ABS01

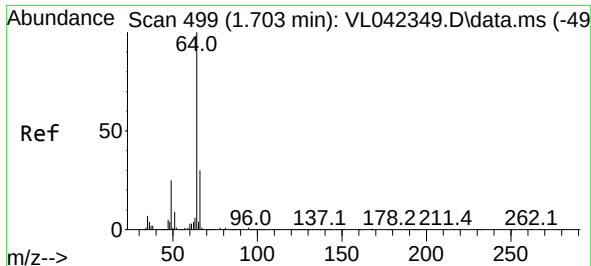
Tgt Ion: 62 Resp: 83419
 Ion Ratio Lower Upper
 62 100
 64 32.8 25.4 38.0



#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

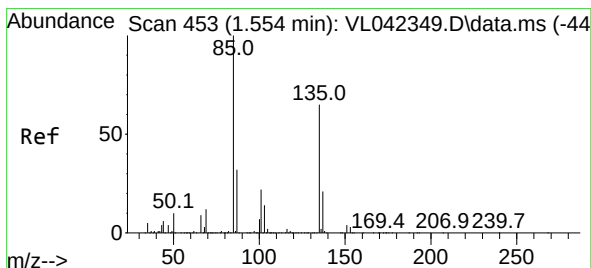
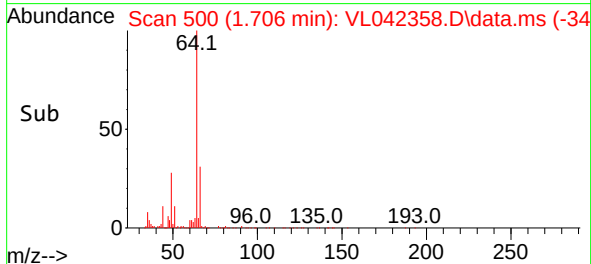
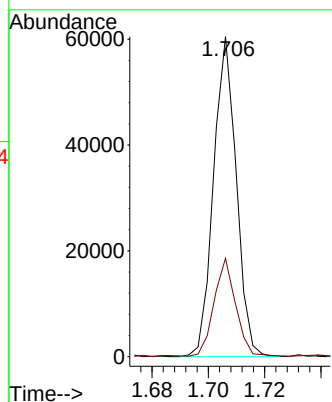
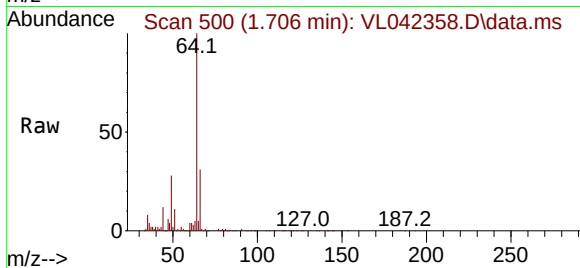




#7
Chloroethane
Concen: 10.075 ppbv
RT: 1.706 min Scan# 50
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

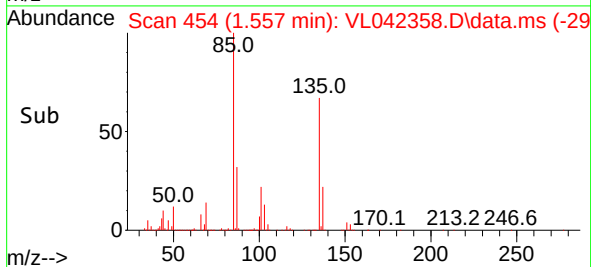
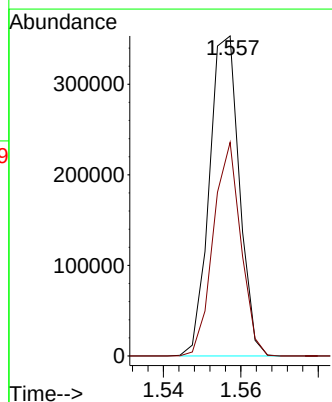
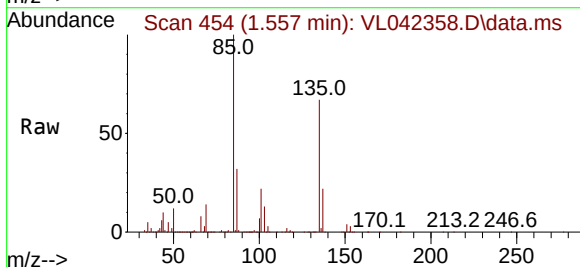
Instrument :
MSVOA_1
ClientSampleId :
VL0417ABS01

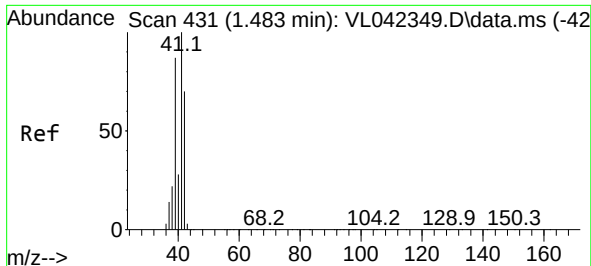
Tgt Ion: 64 Resp: 33936
Ion Ratio Lower Upper
64 100
66 30.7 24.6 37.0



#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 :

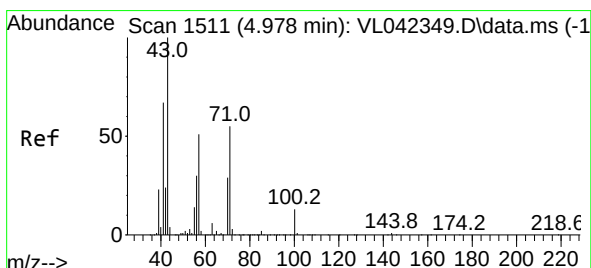
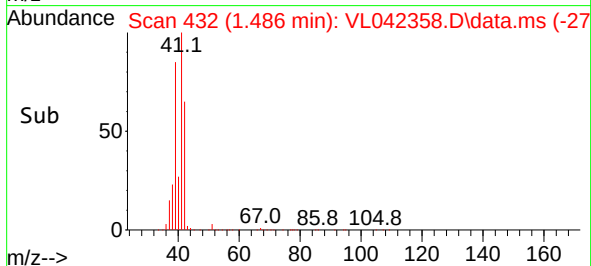
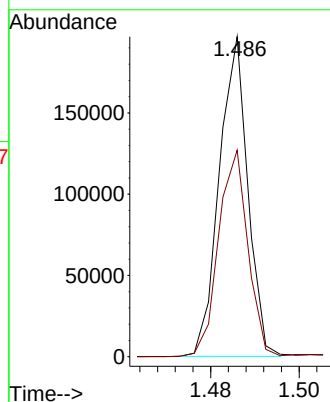
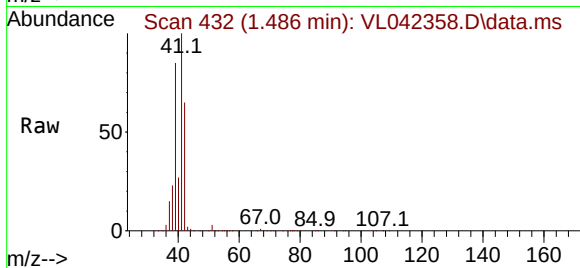
VL0417ABS01

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

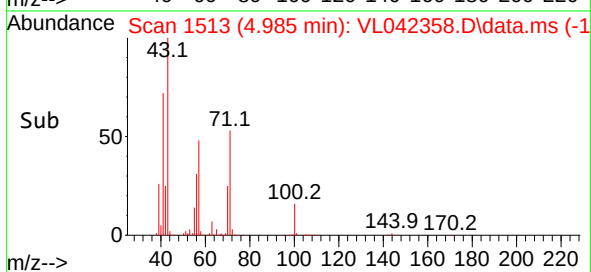
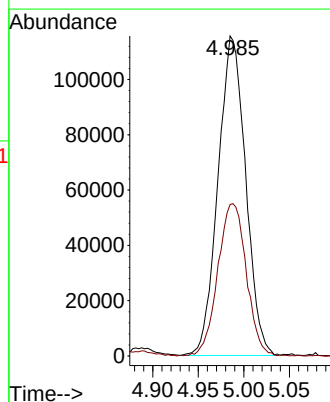
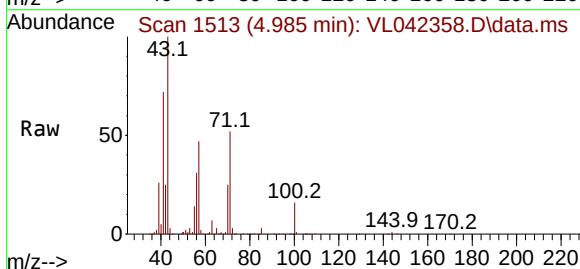
Acq: 17 Apr 2025 15:39

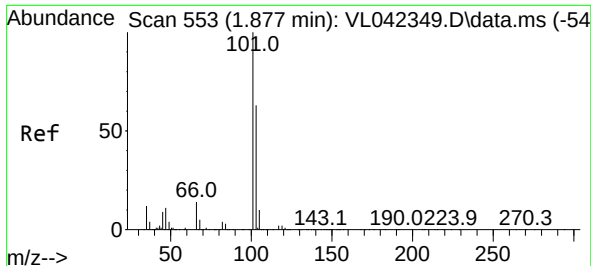
Tgt Ion: 43 Resp: 243501

Ion Ratio Lower Upper

43 100

57 49.4 39.9 59.9

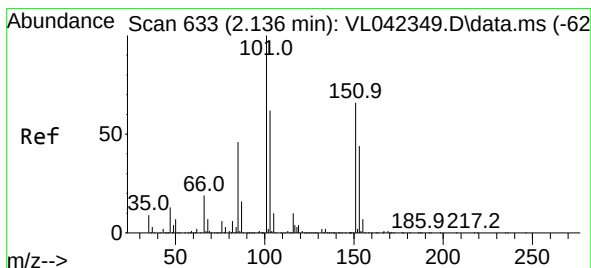
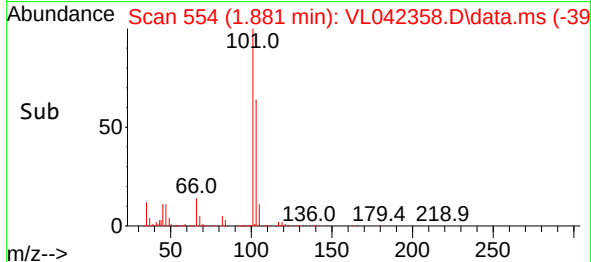
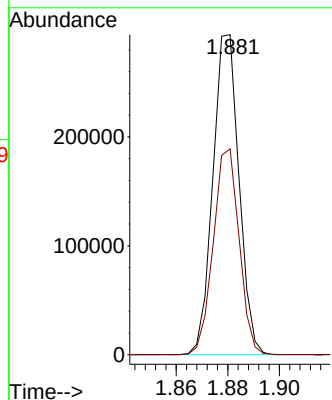
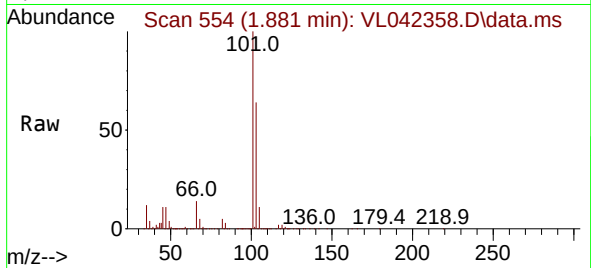




#11
 Trichlorofluoromethane
 Concen: 10.050 ppbv
 RT: 1.881 min Scan# 51
 Delta R.T. 0.003 min
 Lab File: VL042358.D
 Acq: 17 Apr 2025 15:39

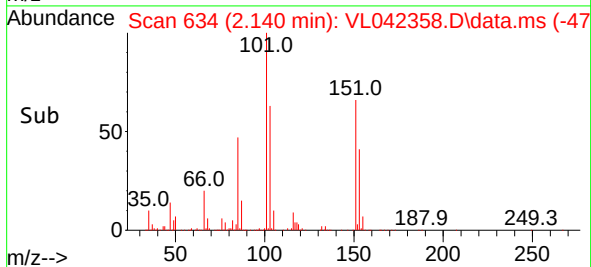
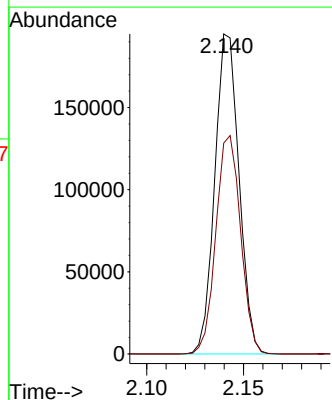
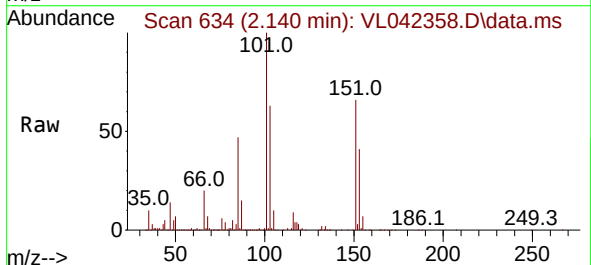
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0417ABS01

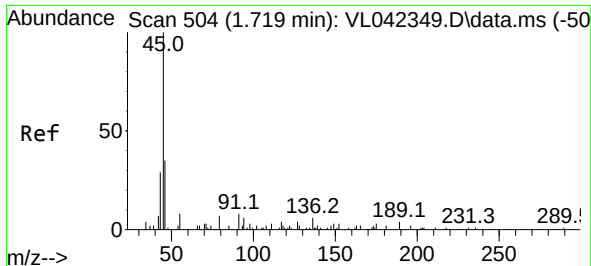
Tgt Ion:101 Resp: 206645
 Ion Ratio Lower Upper
 101 100
 103 64.3 50.1 75.1



#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

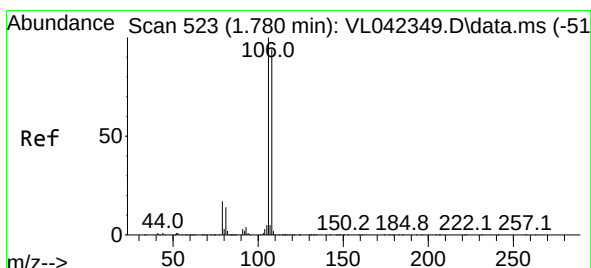
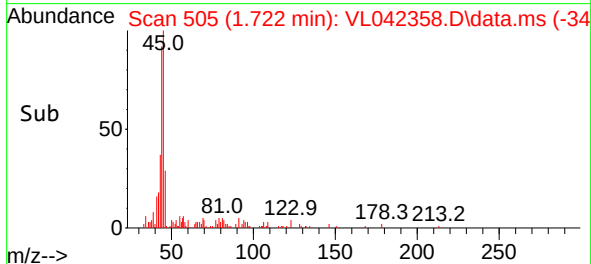
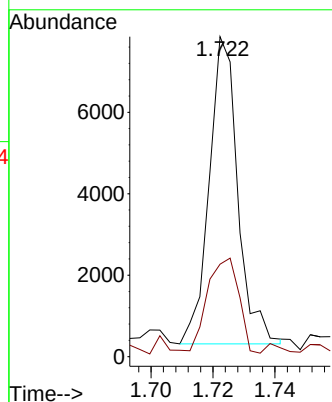
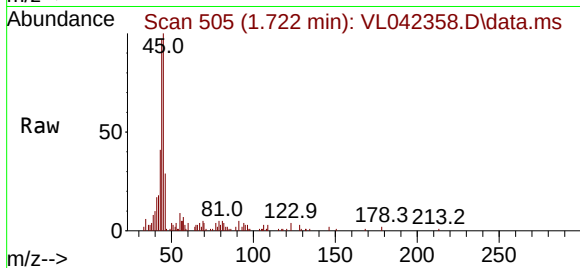




#13
Ethanol
Concen: 3.246 ppbv
RT: 1.722 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

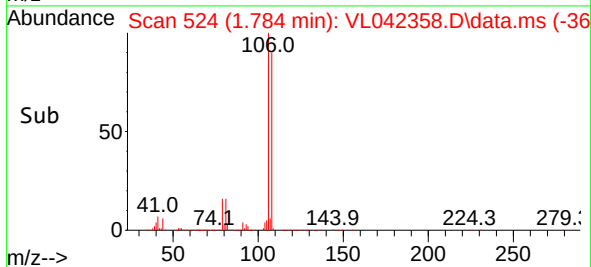
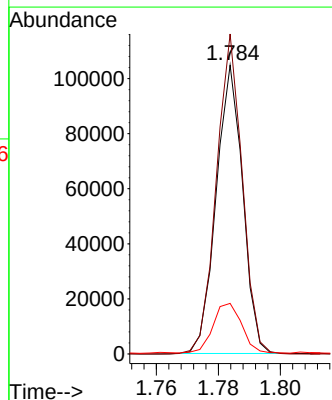
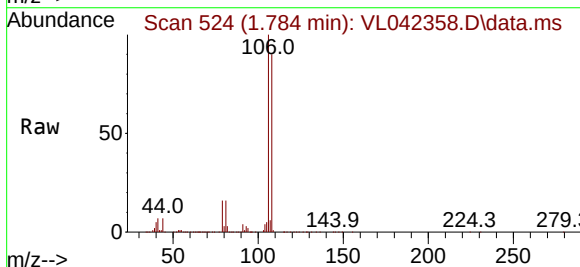
Instrument :
MSVOA_1
ClientSampleId :
VL0417ABS01

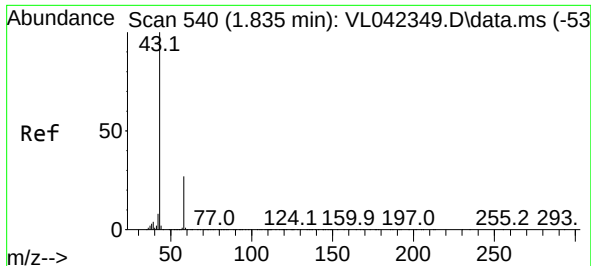
Tgt Ion: 45 Resp: 4837
Ion Ratio Lower Upper
45 100
46 45.8 21.9 87.7



#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

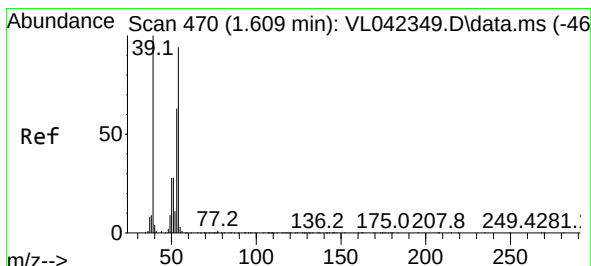
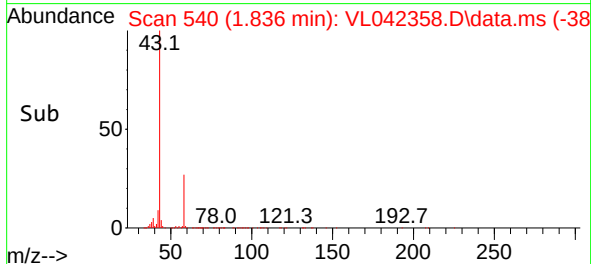
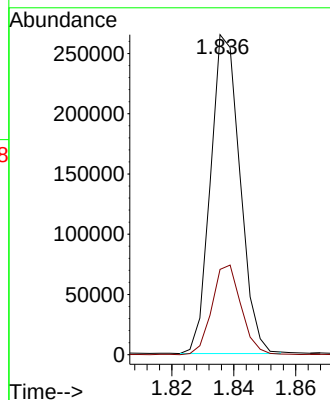
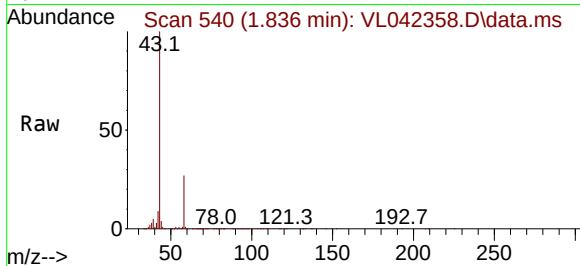




#15
Acetone
Concen: 8.743 ppbv
RT: 1.836 min Scan# 54
Delta R.T. 0.000 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

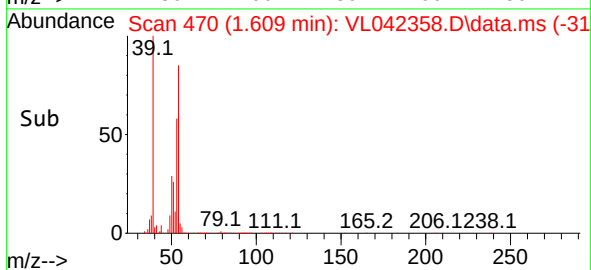
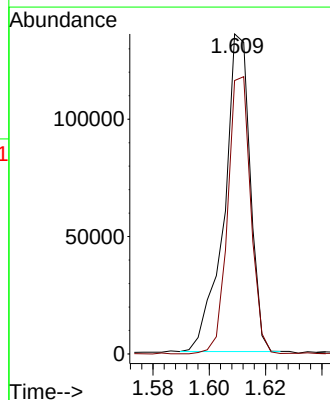
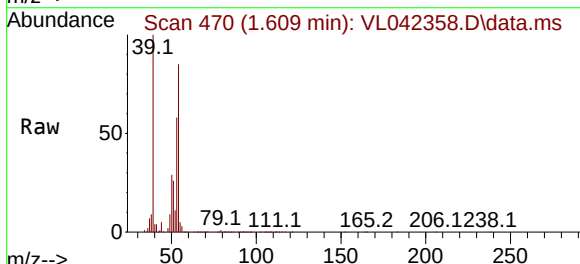
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

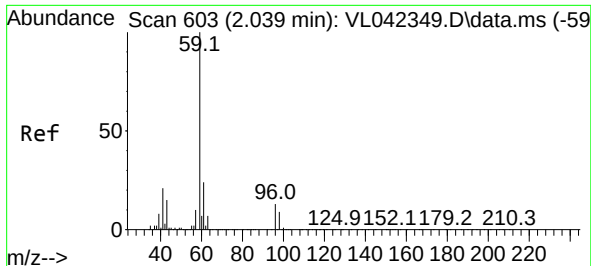
Tgt Ion: 43 Resp: 175153
Ion Ratio Lower Upper
43 100
58 27.9 22.4 33.6



#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

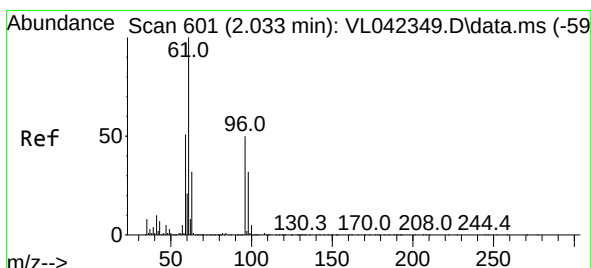
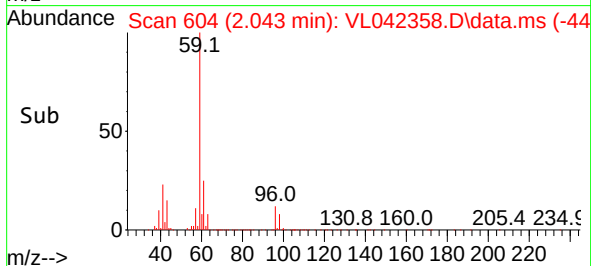
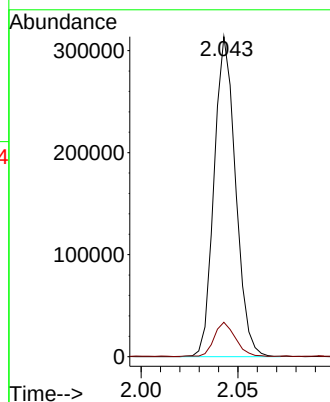
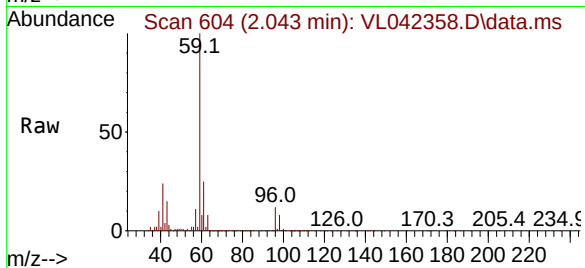




#17
tert-Butyl alcohol
Concen: 9.754 ppbv
RT: 2.043 min Scan# 603
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

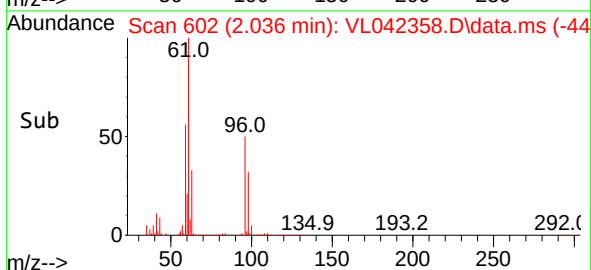
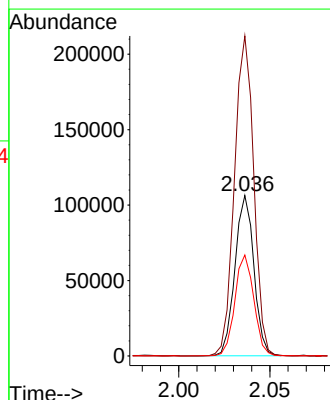
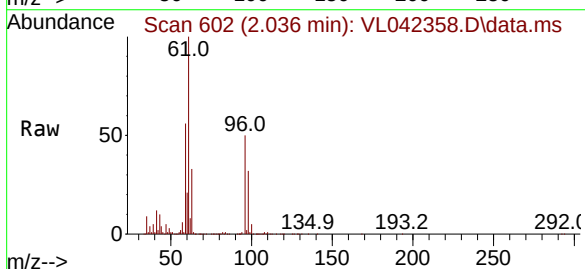
Instrument :
MSVOA_1
ClientSampleId :
VL0417ABS01

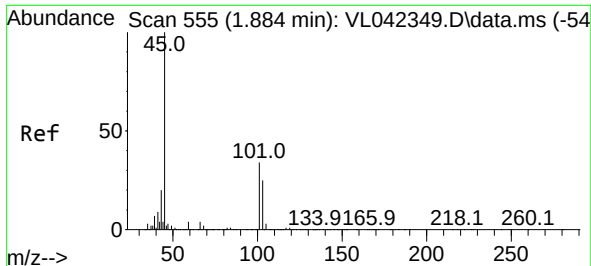
Tgt Ion: 59 Resp: 242154
Ion Ratio Lower Upper
59 100
57 10.9 8.7 13.1



#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

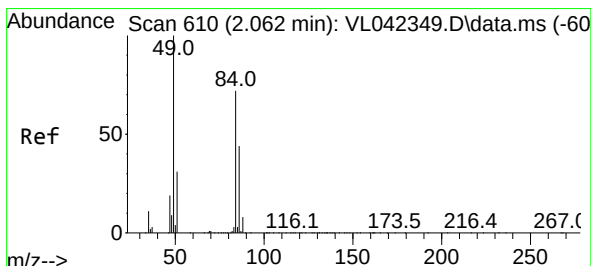
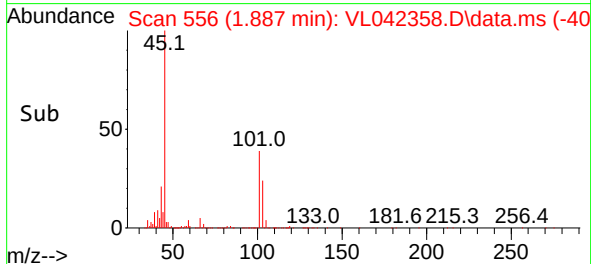
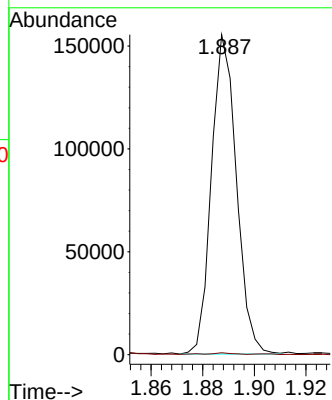
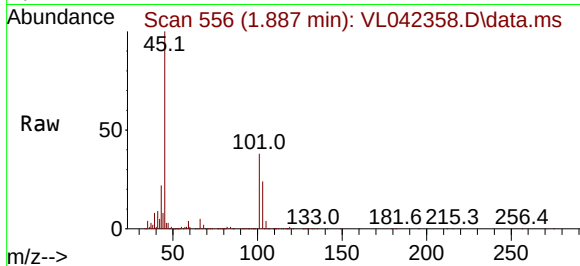




#19
Isopropyl Alcohol
Concen: 9.356 ppbv
RT: 1.887 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

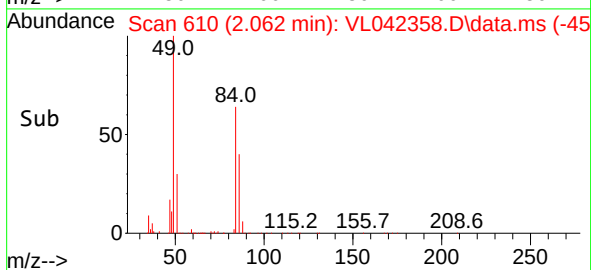
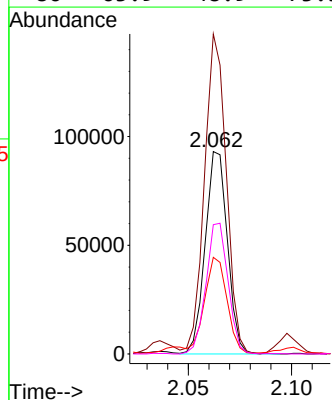
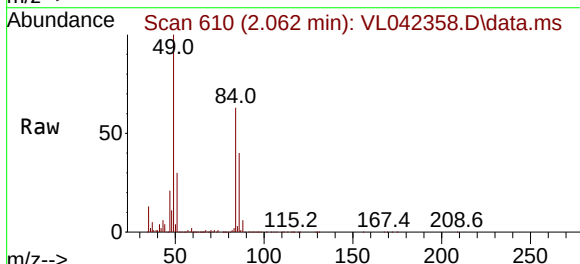
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

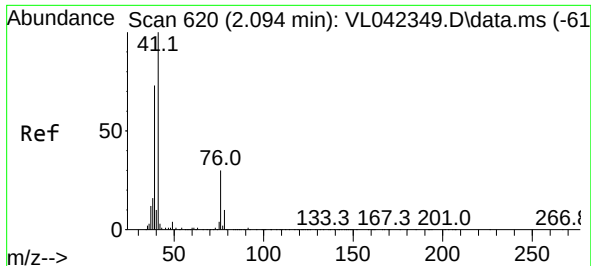
Tgt Ion: 45 Resp: 104123
Ion Ratio Lower Upper
45 100
58 46.9 34.5 51.7



#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

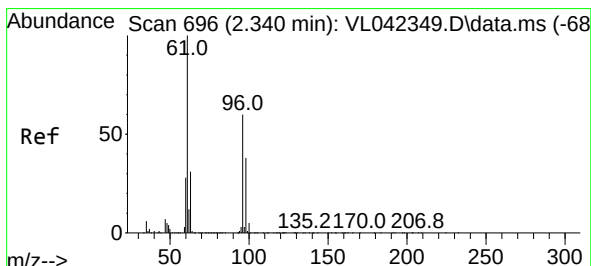
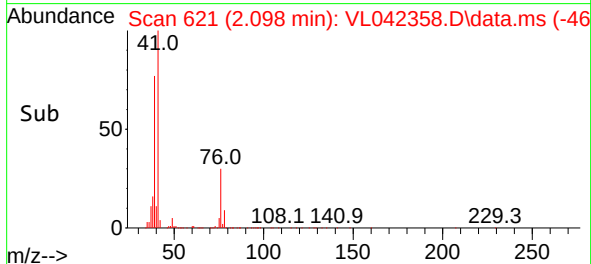
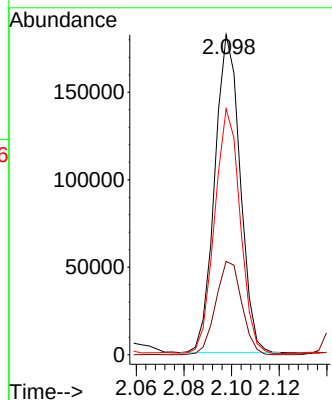
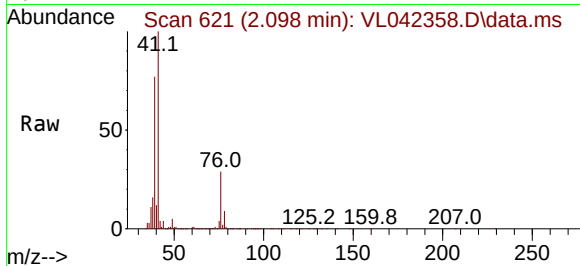




#21
 Allyl Chloride
 Concen: 9.704 ppbv
 RT: 2.098 min Scan# 61
 Delta R.T. 0.003 min
 Lab File: VL042358.D
 Acq: 17 Apr 2025 15:39

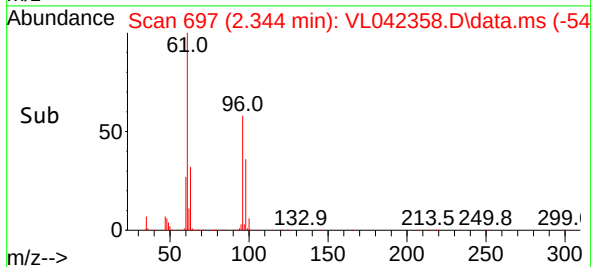
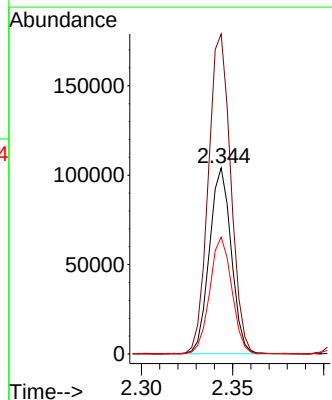
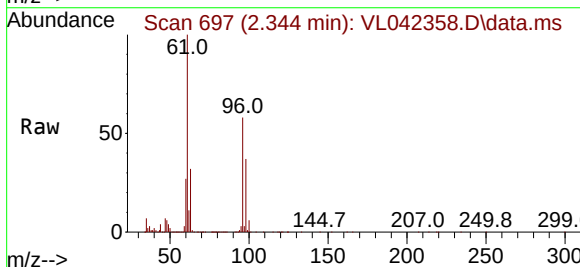
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0417ABS01

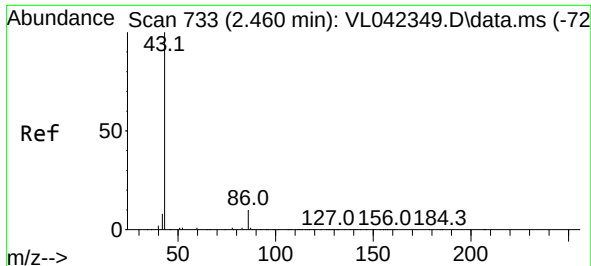
Tgt Ion: 41 Resp: 134221
 Ion Ratio Lower Upper
 41 100
 76 30.1 24.8 37.2
 39 76.8 60.6 90.8



#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

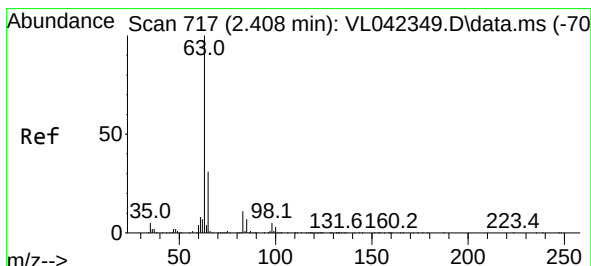
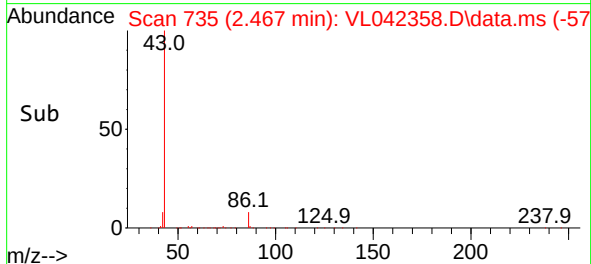
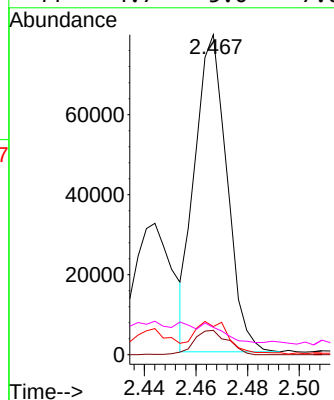
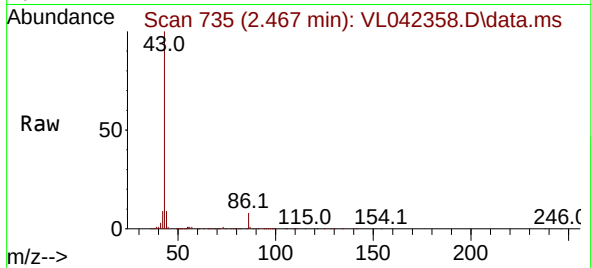




#23
 Vinyl Acetate
 Concen: 8.427 ppbv
 RT: 2.467 min Scan# 718
 Delta R.T. 0.007 min
 Lab File: VL042358.D
 Acq: 17 Apr 2025 15:39

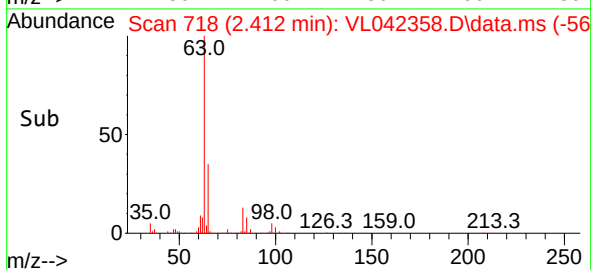
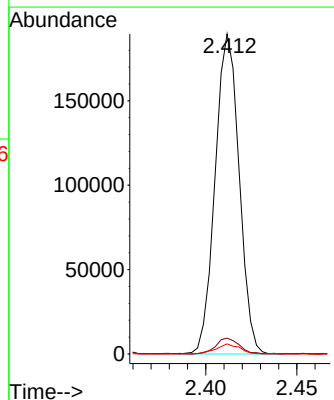
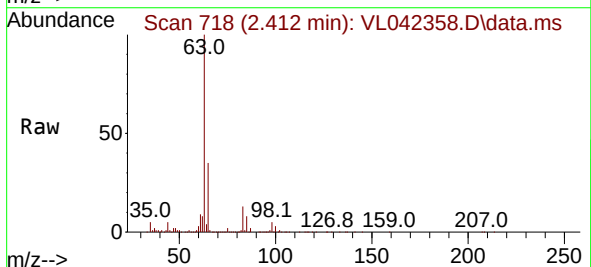
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0417ABS01

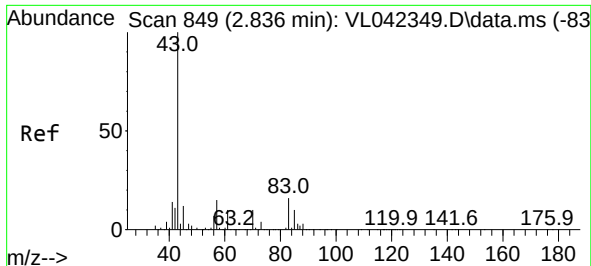
Tgt Ion:	43	Resp:	68337
Ion	Ratio	Lower	Upper
43	100		
86	7.7	6.5	9.7
42	8.3	7.8	11.8
44	4.7	5.0	7.6



#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



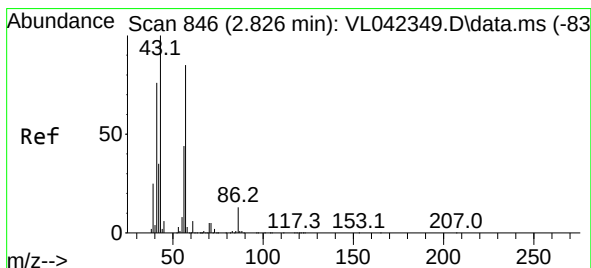
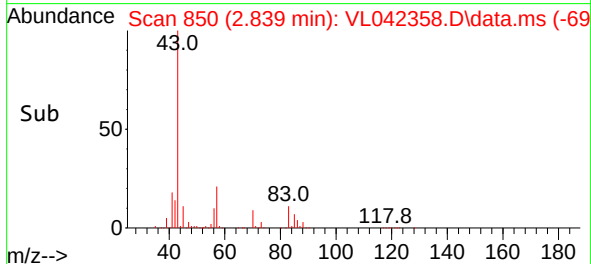
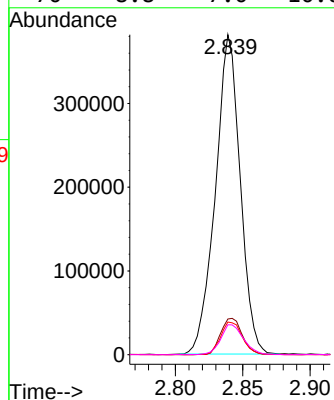
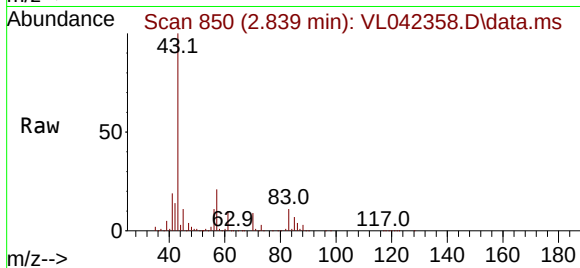


#25
Ethyl Acetate
Concen: 9.894 ppbv
RT: 2.839 min Scan# 849
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Tgt Ion: 43 Resp: 488686

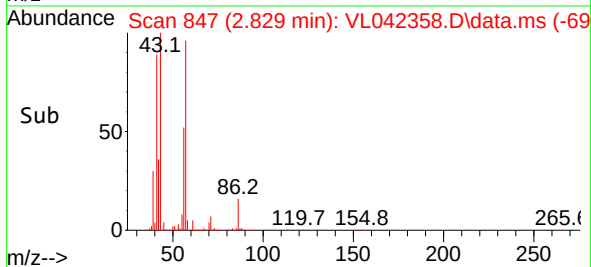
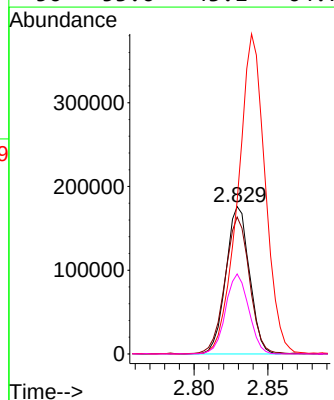
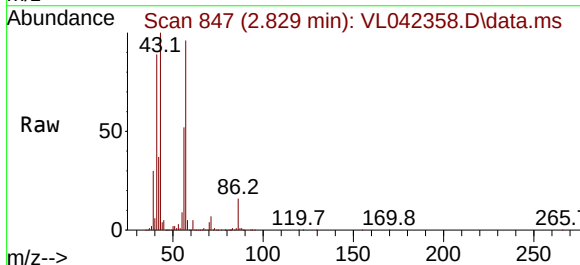
Ion	Ratio	Lower	Upper
43	100		
45	10.1	8.3	12.5
61	9.0	7.3	10.9
70	8.8	7.0	10.6

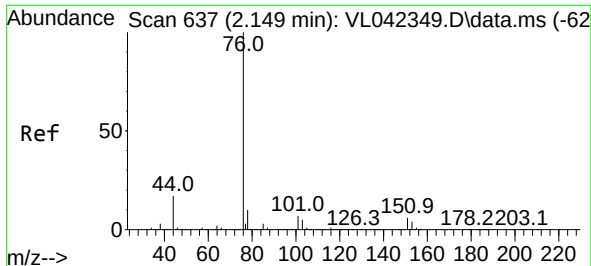


#26
Hexane
Concen: 9.761 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

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

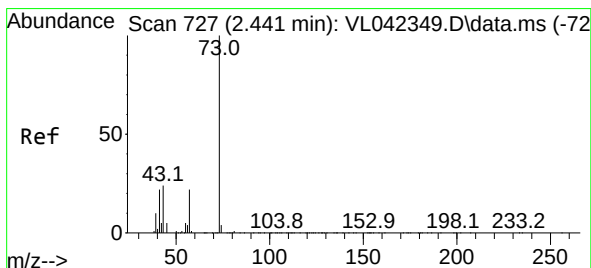
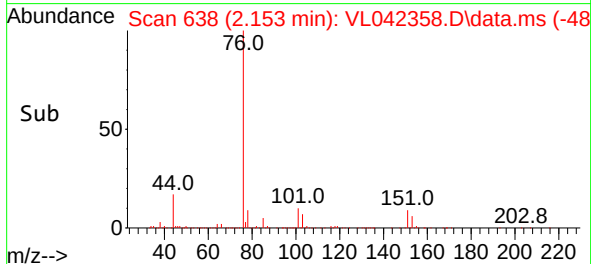
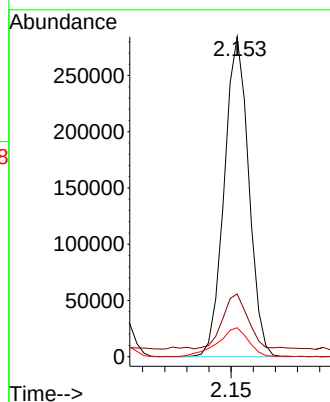
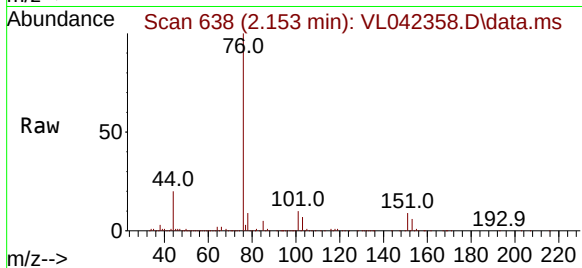
Tgt Ion: 76 Resp: 218345

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

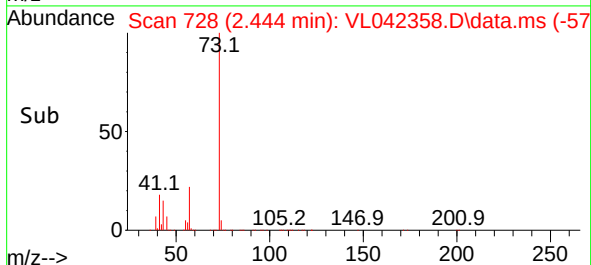
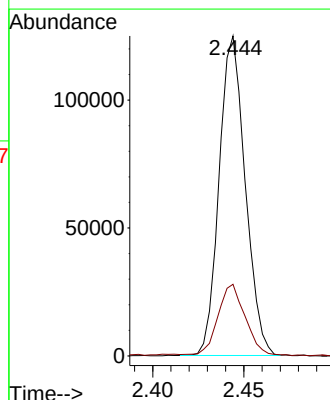
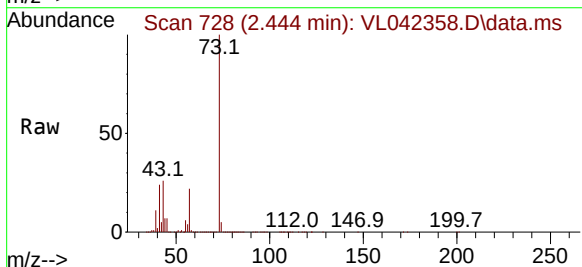
Acq: 17 Apr 2025 15:39

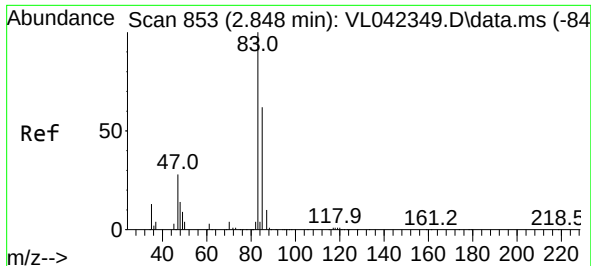
Tgt Ion: 73 Resp: 124554

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 :

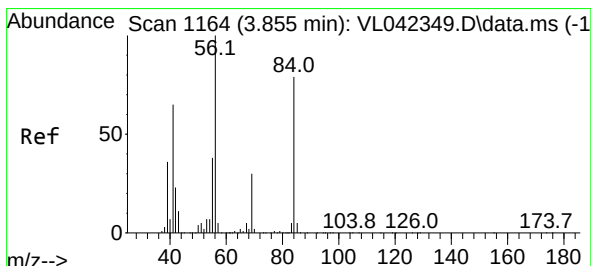
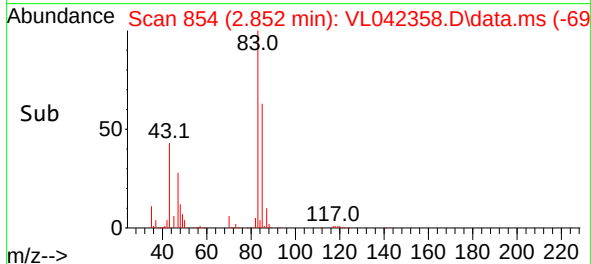
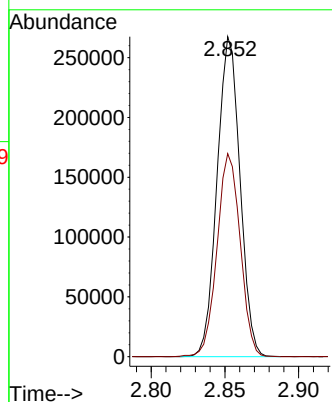
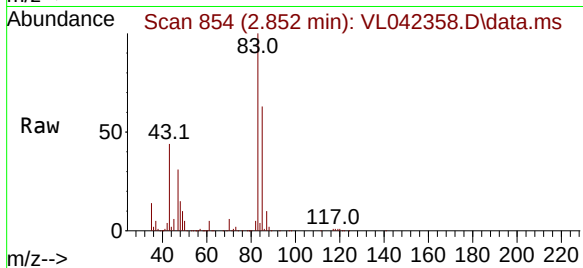
VL0417ABS01

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

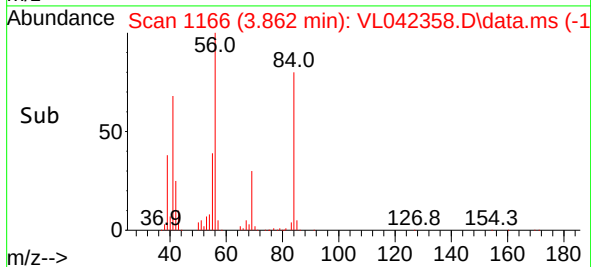
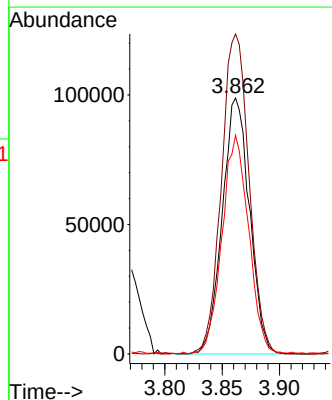
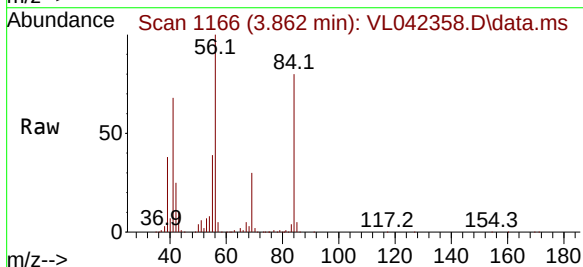
Tgt Ion: 84 Resp: 163017

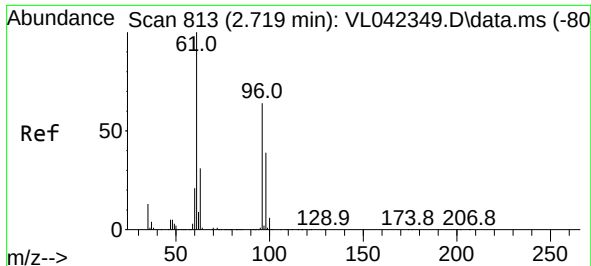
Ion Ratio Lower Upper

84 100

56 126.7 101.0 151.4

41 83.8 67.4 101.0

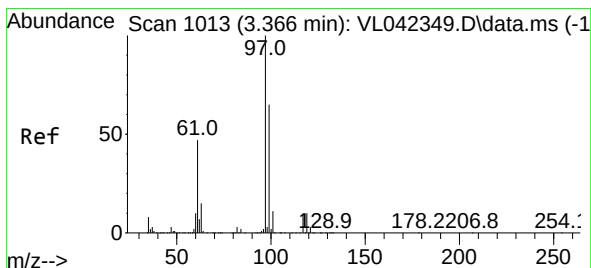
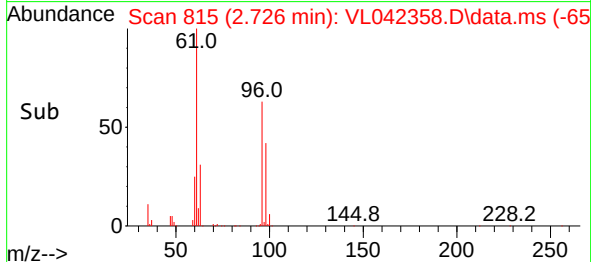
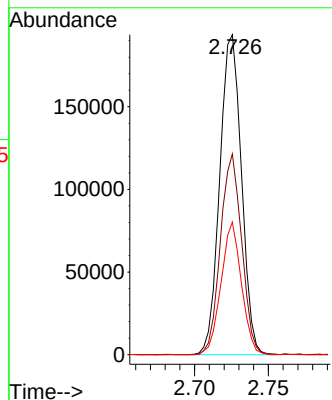
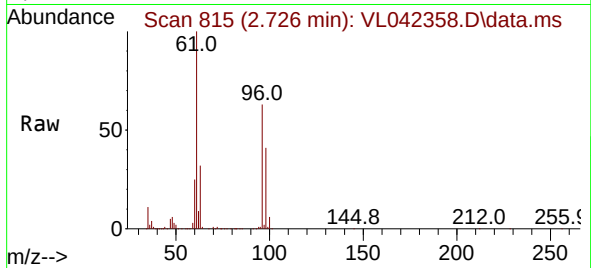




#31
 cis-1,2-Dichloroethene
 Concen: 10.424 ppbv
 RT: 2.726 min Scan# 81
 Delta R.T. 0.007 min
 Lab File: VL042358.D
 Acq: 17 Apr 2025 15:39

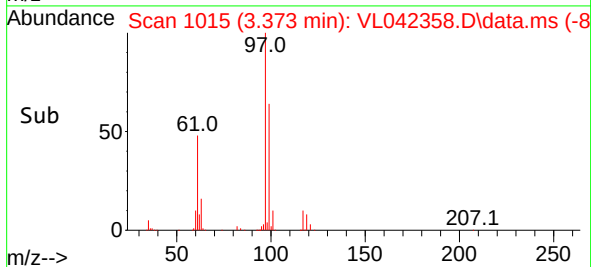
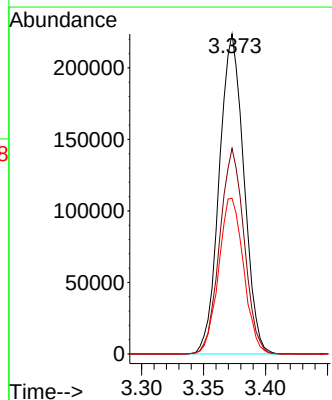
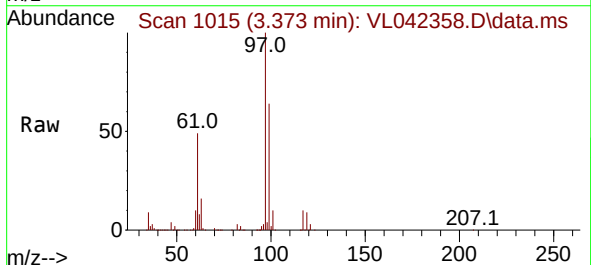
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0417ABS01

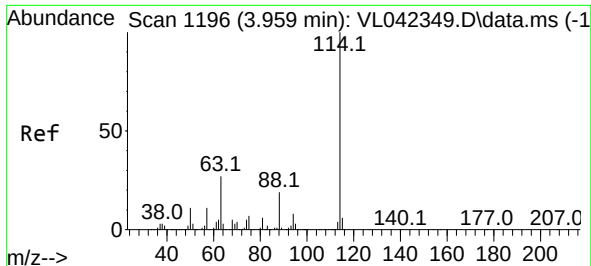
Tgt Ion: 61 Resp: 198108
 Ion Ratio Lower Upper
 61 100
 96 62.8 50.8 76.2
 98 41.4 30.9 46.3



#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

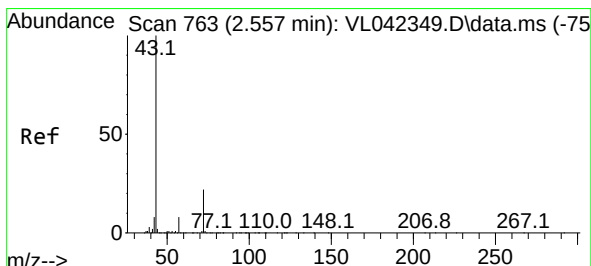
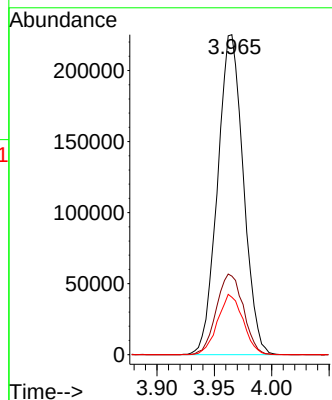
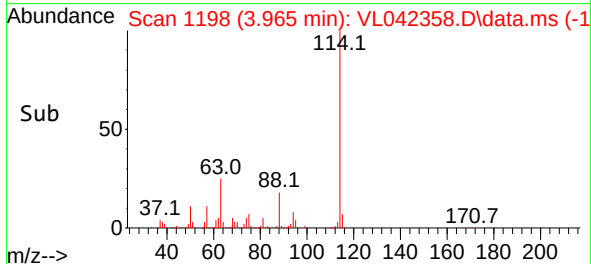
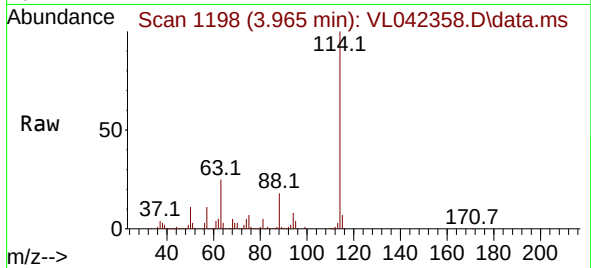




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1196
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

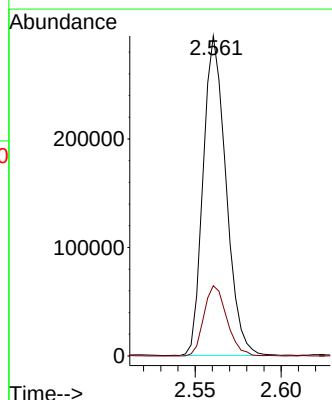
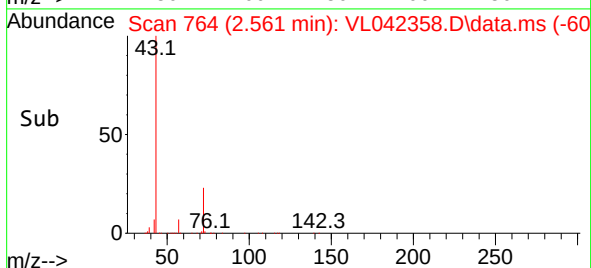
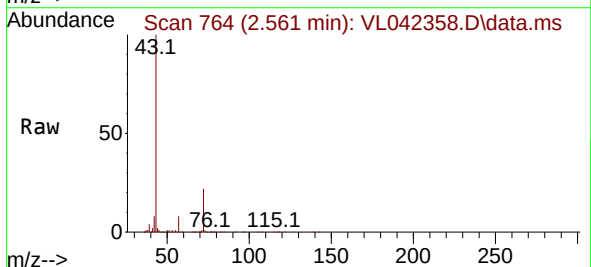
Instrument :
MSVOA_1
ClientSampleId :
VL0417ABS01

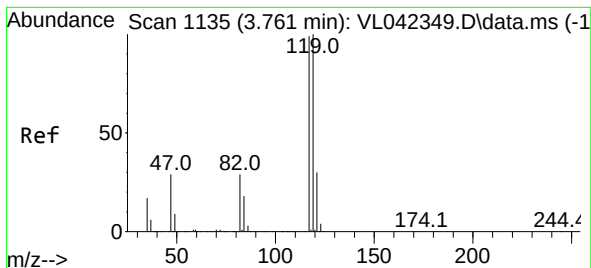
Tgt Ion:114 Resp: 352201
Ion Ratio Lower Upper
114 100
63 26.4 21.8 32.6
88 18.6 15.5 23.3



#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

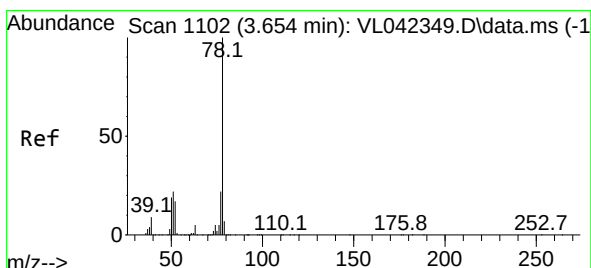
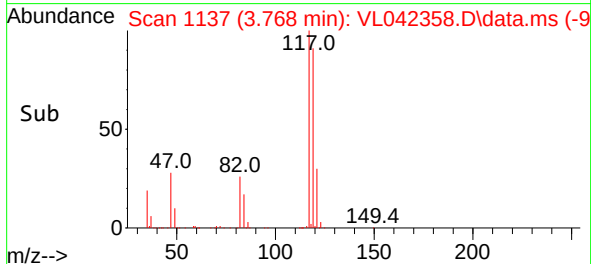
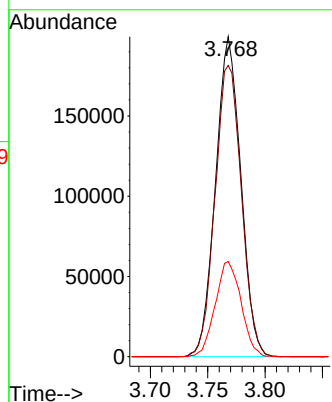
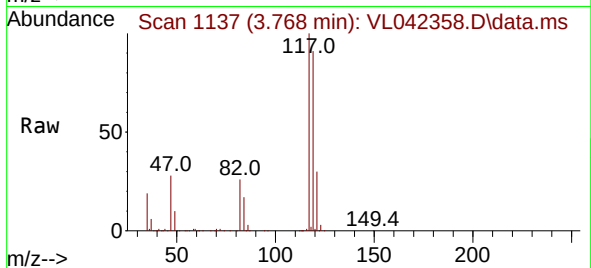
Tgt Ion:117 Resp: 305245

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

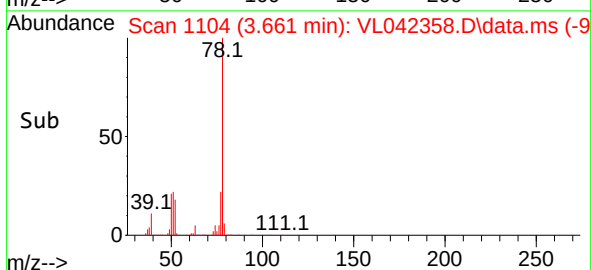
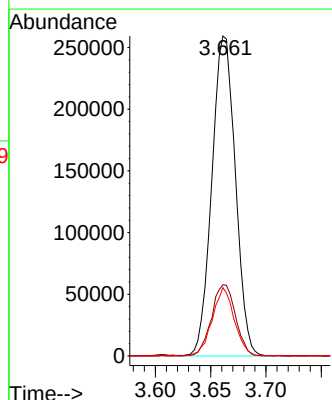
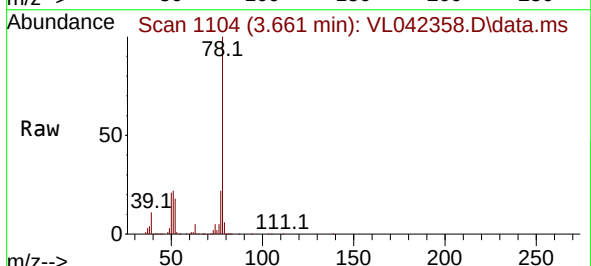
Tgt Ion: 78 Resp: 383239

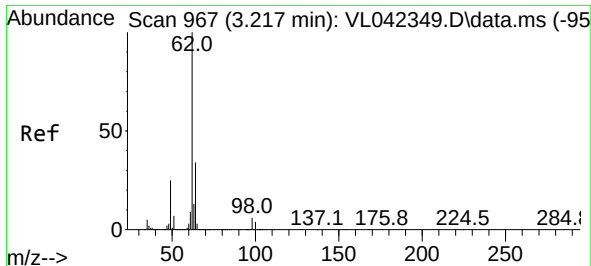
Ion Ratio Lower Upper

78 100

77 22.1 17.4 26.0

50 21.3 15.5 23.3

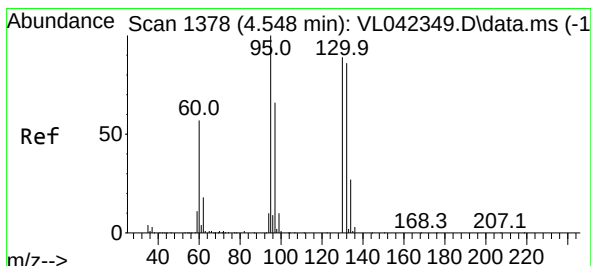
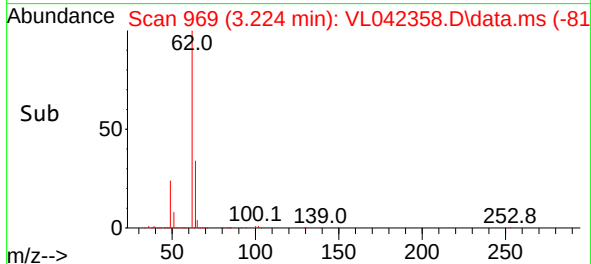
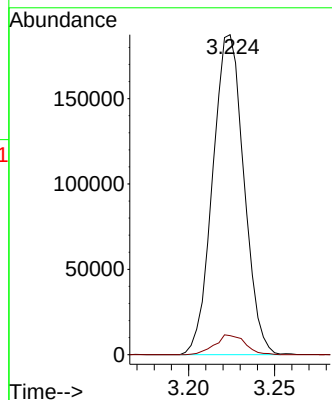
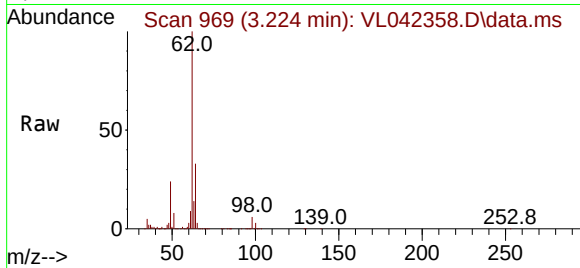




#37
1,2-Dichloroethane
Concen: 10.377 ppbv
RT: 3.224 min Scan# 90
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

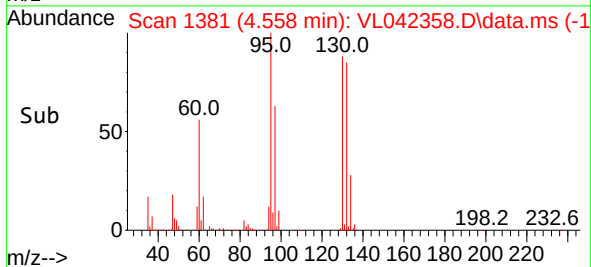
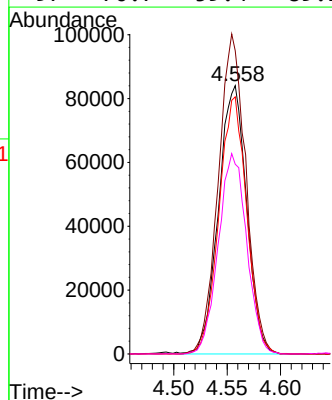
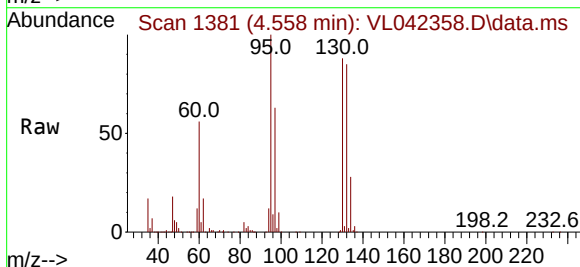
Instrument :
MSVOA_1
ClientSampleId :
VL0417ABS01

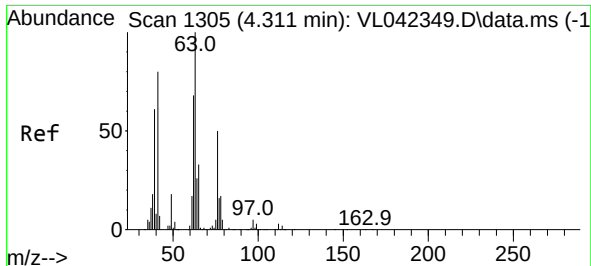
Tgt Ion: 62 Resp: 236611
Ion Ratio Lower Upper
62 100
98 6.0 5.1 7.7



#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

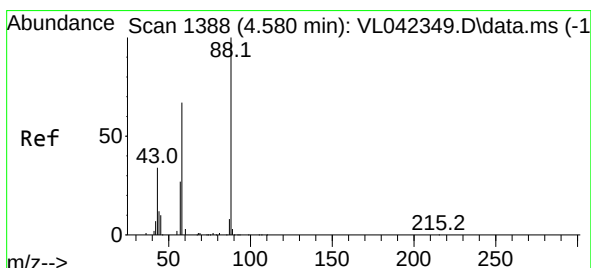
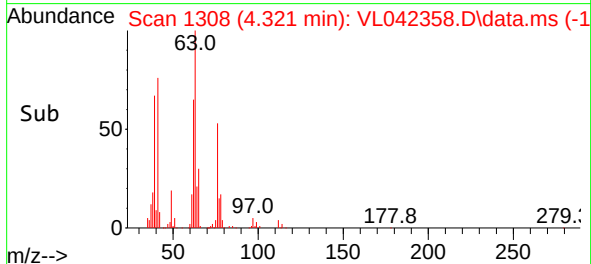
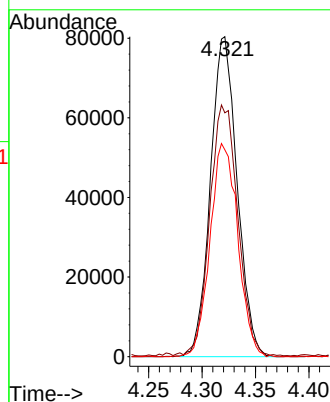
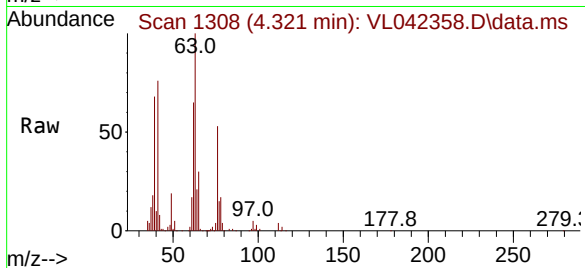
Tgt Ion: 63 Resp: 139669

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

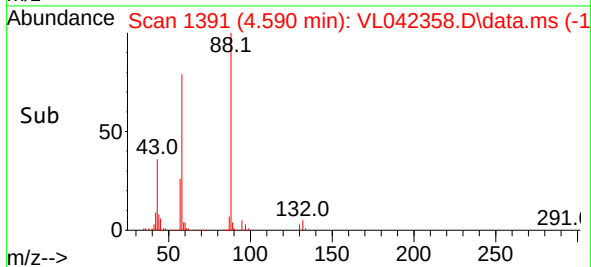
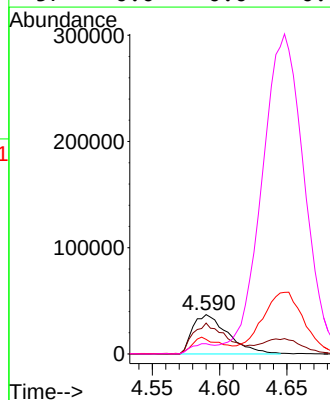
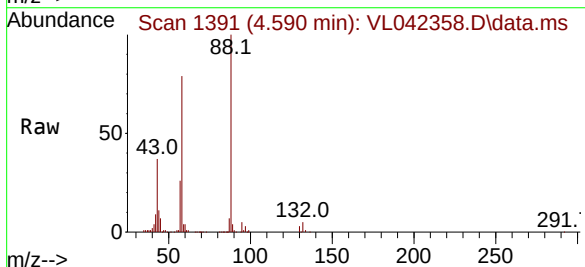
Ion Ratio Lower Upper

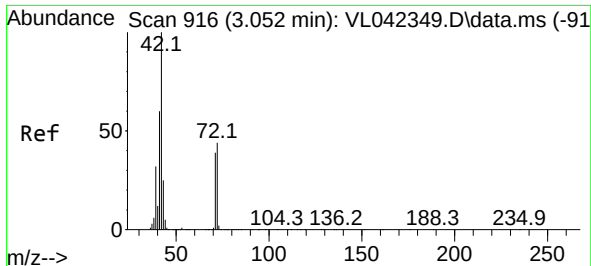
88 100

58 75.4 61.4 92.0

43 37.1 23.2 34.8#

57 0.0 0.0 0.0

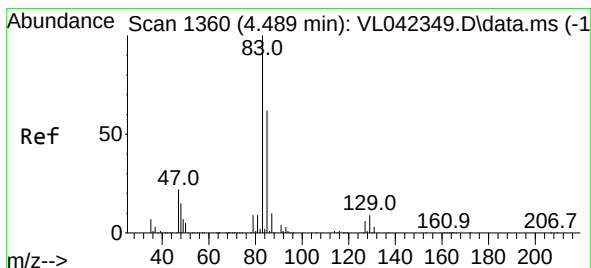
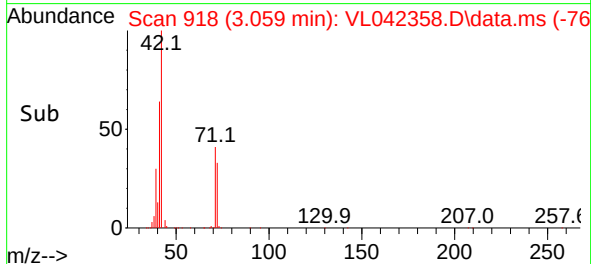
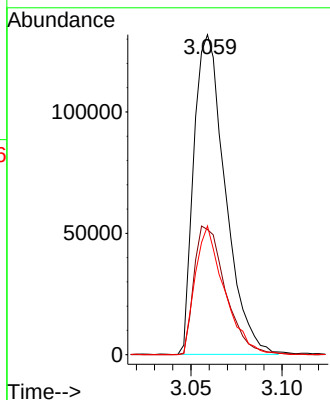
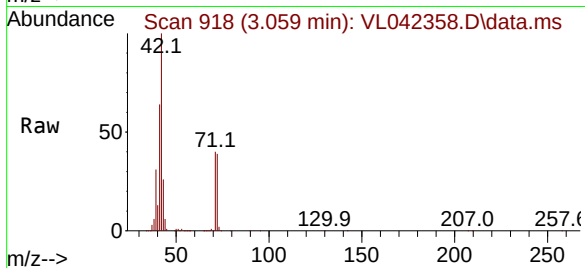




#41
Tetrahydrofuran
Concen: 9.715 ppbv
RT: 3.059 min Scan# 916
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

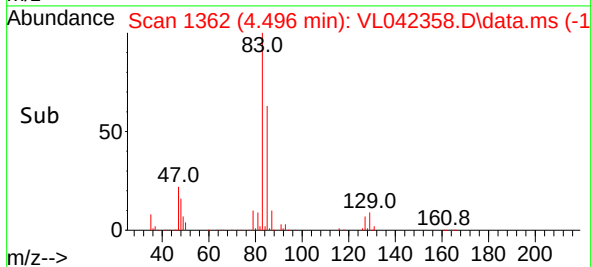
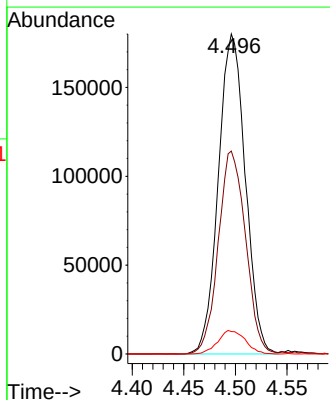
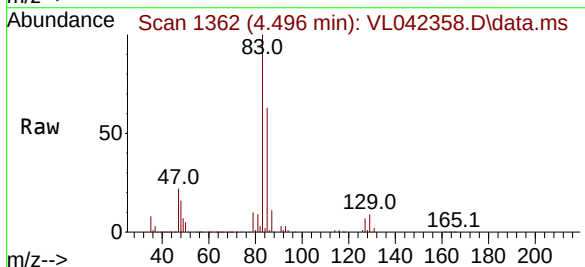
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

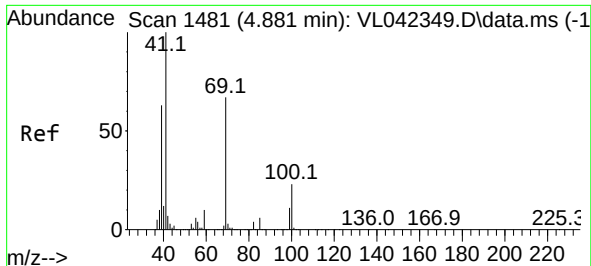
Tgt Ion: 42 Resp: 157777
Ion Ratio Lower Upper
42 100
72 40.3 32.3 48.5
71 37.7 31.4 47.2



#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

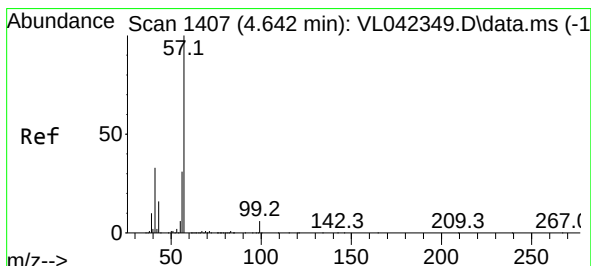
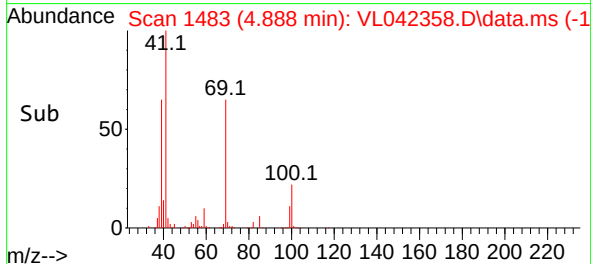
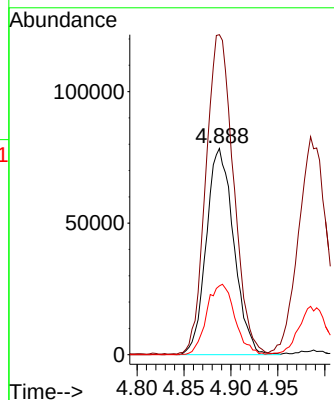
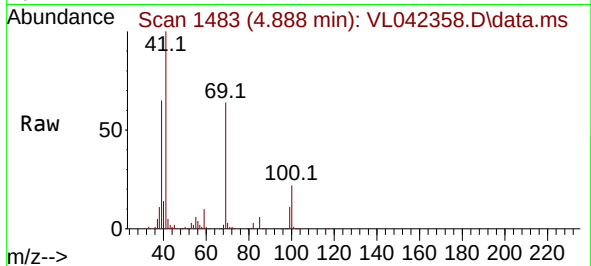




#43
Methyl Methacrylate
Concen: 9.304 ppbv
RT: 4.888 min Scan# 1481
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

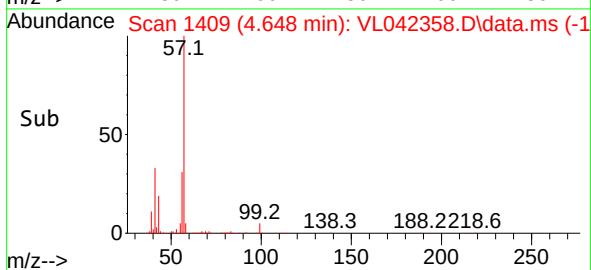
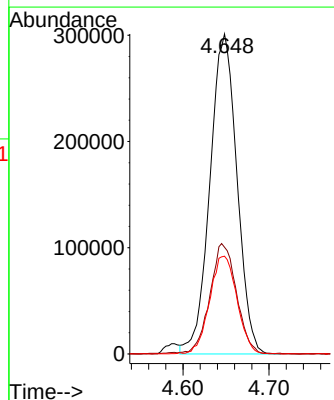
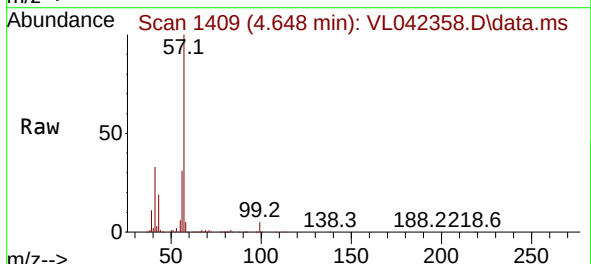
Instrument :
MSVOA_1
ClientSampleId :
VL0417ABS01

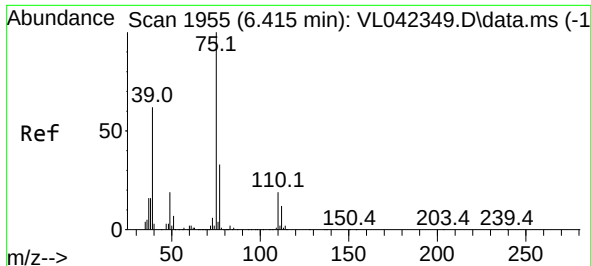
Tgt Ion: 69 Resp: 159292
Ion Ratio Lower Upper
69 100
41 155.9 118.6 177.8
100 35.1 28.2 42.2



#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

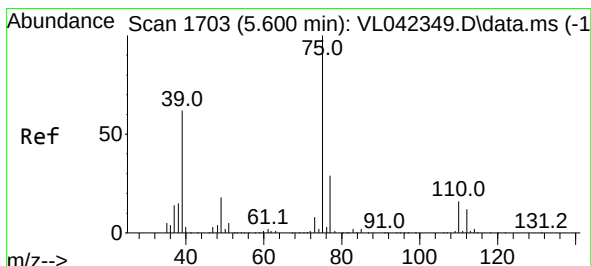
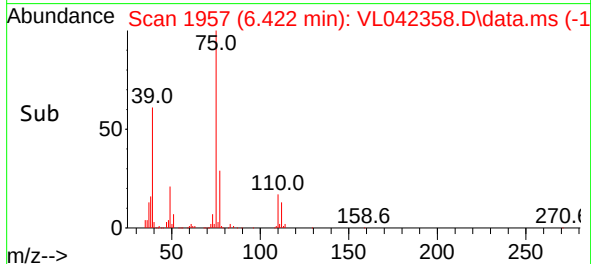
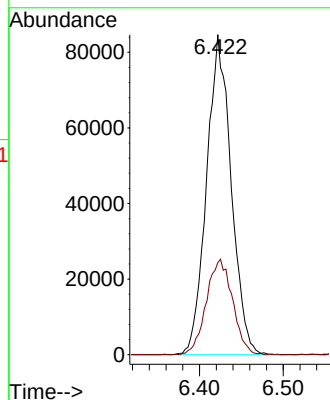
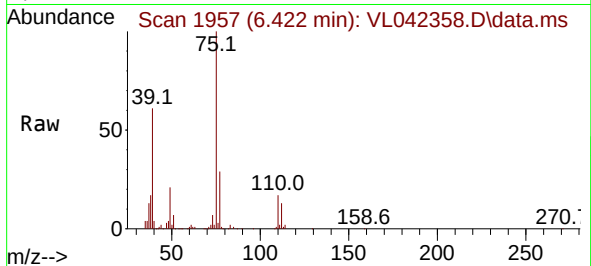




#45
 t-1,3-Dichloropropene
 Concen: 9.864 ppbv
 RT: 6.422 min Scan# 1957
 Delta R.T. 0.007 min
 Lab File: VL042358.D
 Acq: 17 Apr 2025 15:39

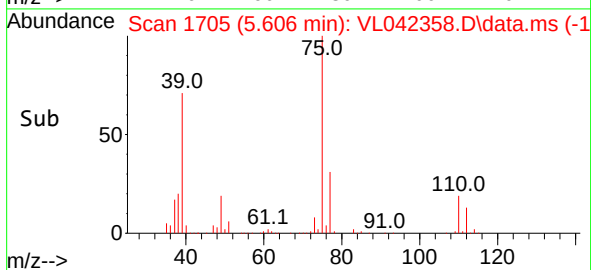
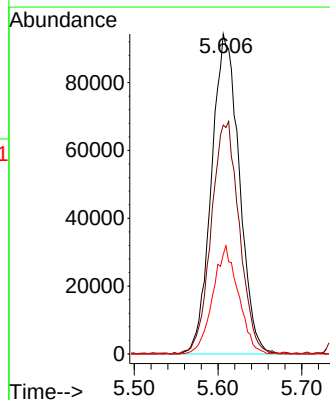
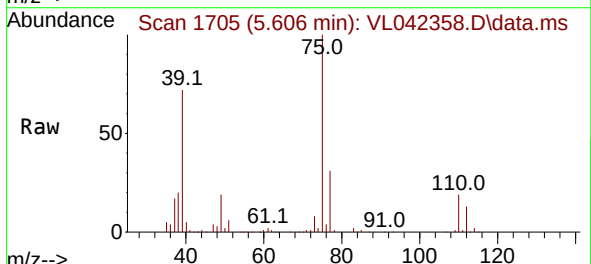
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0417ABS01

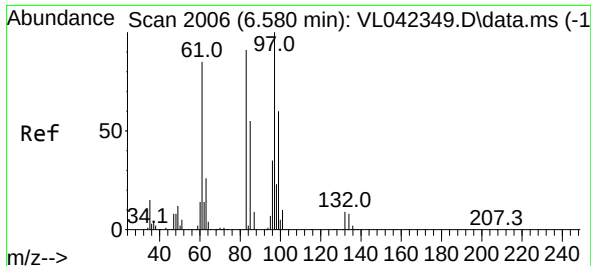
Tgt Ion: 75 Resp: 172514
 Ion Ratio Lower Upper
 75 100
 77 28.7 27.0 40.6



#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



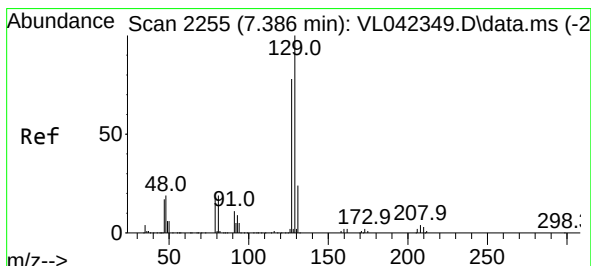
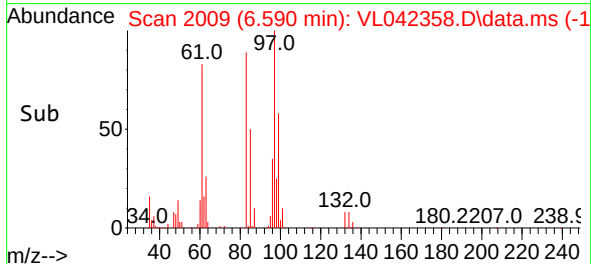
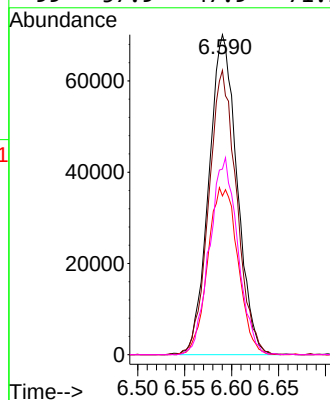
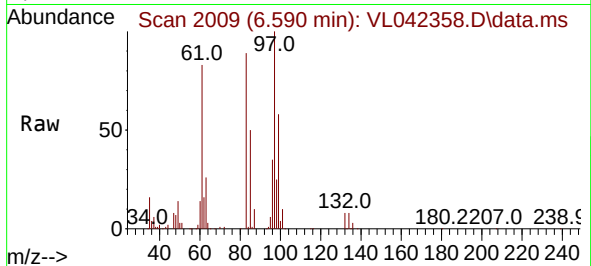


#47
1,1,2-Trichloroethane
Concen: 10.161 ppbv
RT: 6.590 min Scan# 2006
Delta R.T. 0.010 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

Tgt Ion: 97 Resp: 146547

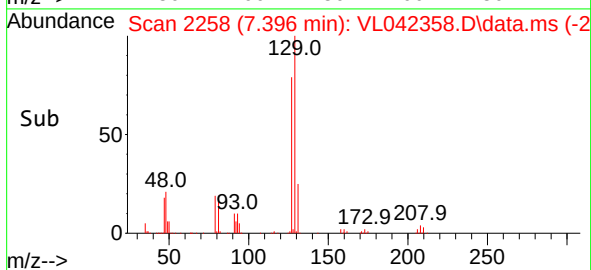
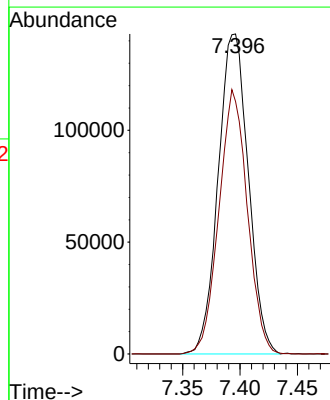
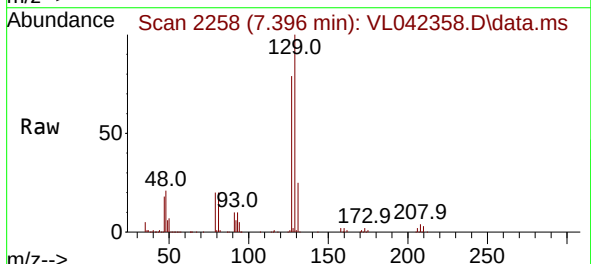
Ion	Ratio	Lower	Upper
97	100		
83	88.7	72.8	109.2
85	49.6	44.2	66.4
99	57.9	47.9	71.9

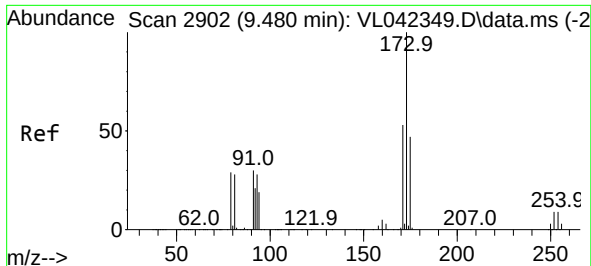


#48
Dibromochloromethane
Concen: 10.261 ppbv
RT: 7.396 min Scan# 2258
Delta R.T. 0.010 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

Tgt Ion: 129 Resp: 261470

Ion	Ratio	Lower	Upper
129	100		
127	77.9	39.1	117.3

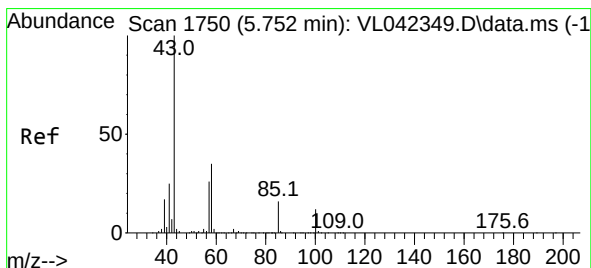
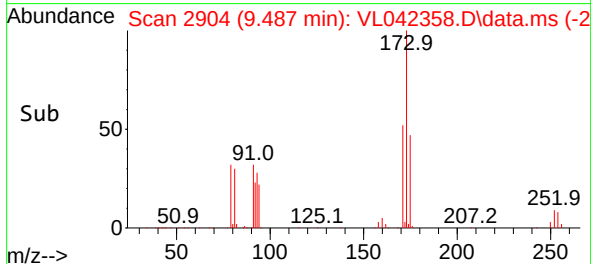
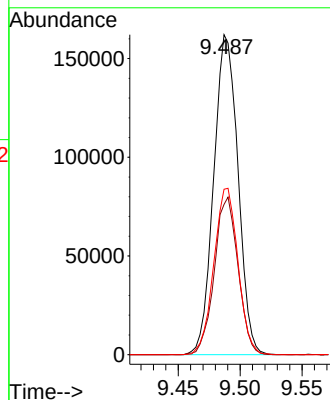
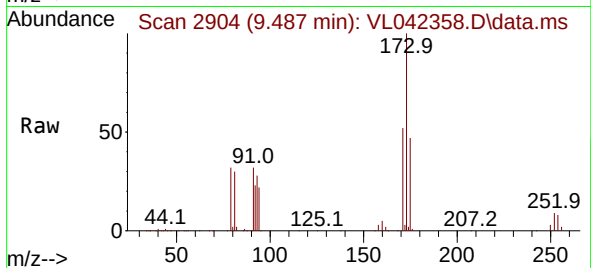




#49
Bromoform
Concen: 9.936 ppbv
RT: 9.487 min Scan# 2904
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

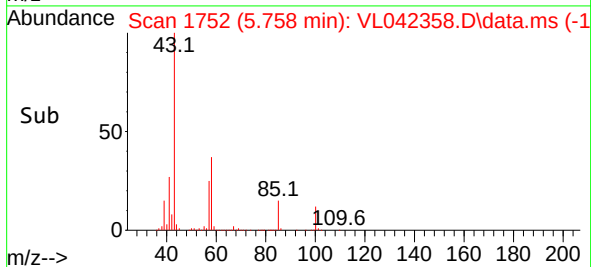
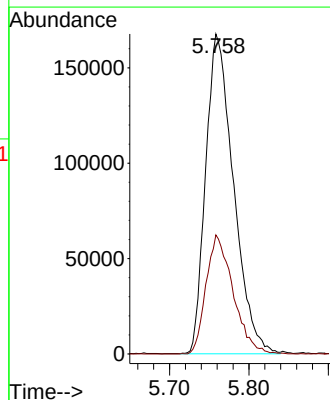
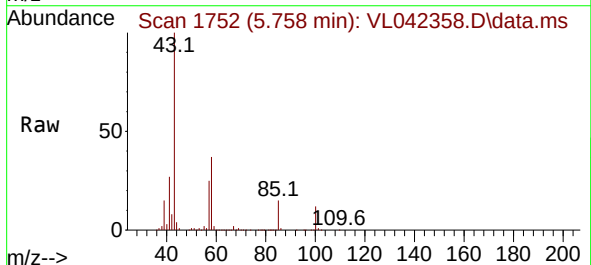
Instrument :
MSVOA_1
ClientSampleId :
VL0417ABS01

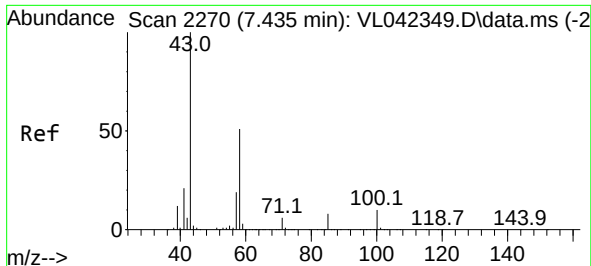
Tgt Ion:173 Resp: 221372
Ion Ratio Lower Upper
173 100
175 48.0 38.2 57.2
171 51.7 40.9 61.3



#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

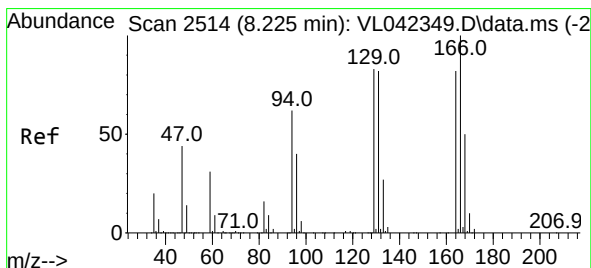
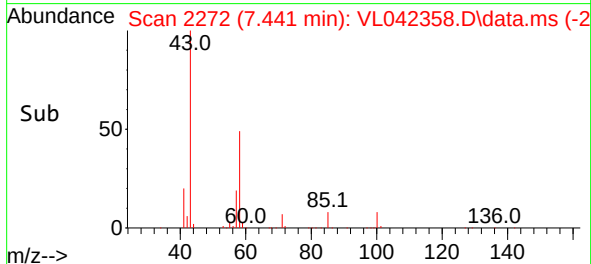
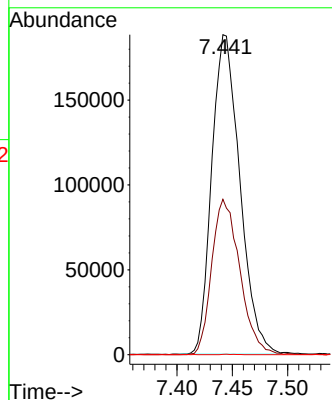
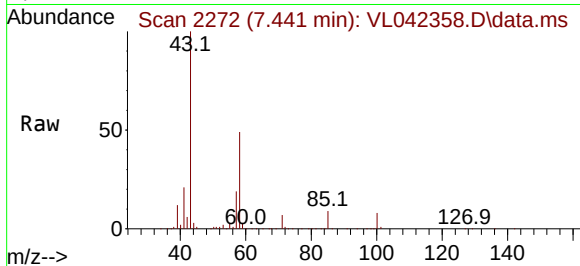




#51
2-Hexanone
Concen: 8.013 ppbv
RT: 7.441 min Scan# 21
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

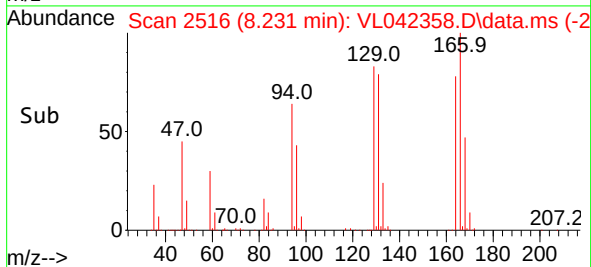
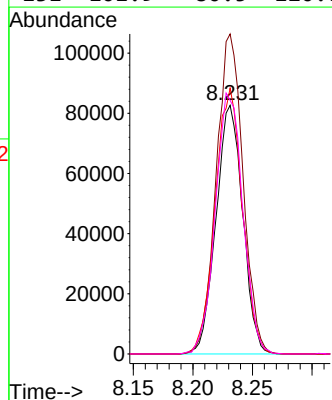
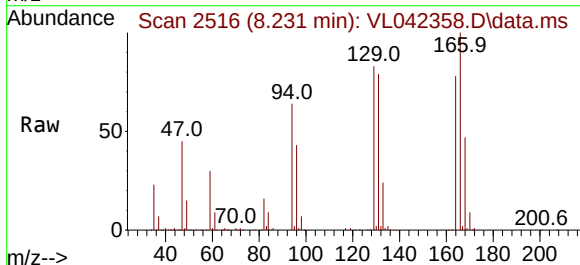
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

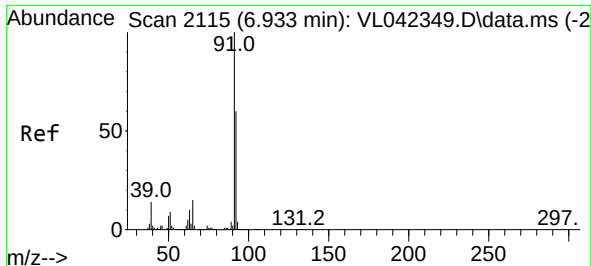
Tgt Ion: 43 Resp: 332646
Ion Ratio Lower Upper
43 100
58 48.6 40.2 60.4
98 0.1 0.1 0.1#



#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

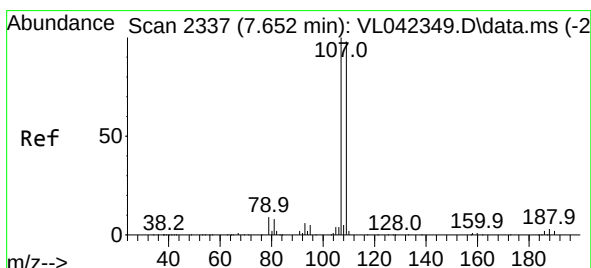
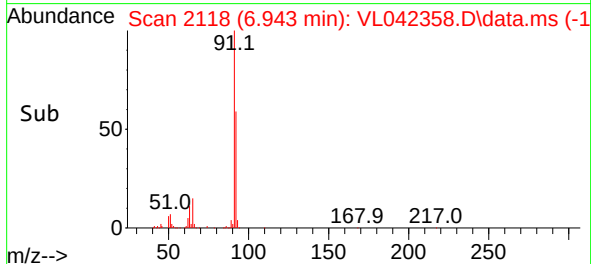
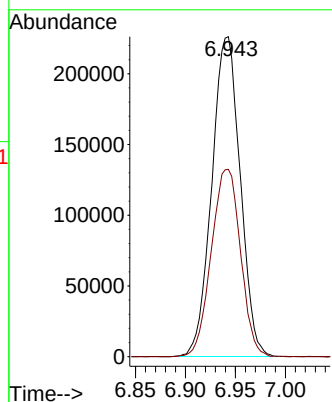
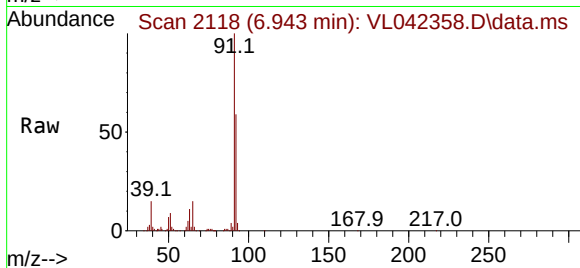




#53
Toluene
Concen: 9.818 ppbv
RT: 6.943 min Scan# 2115
Delta R.T. 0.010 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

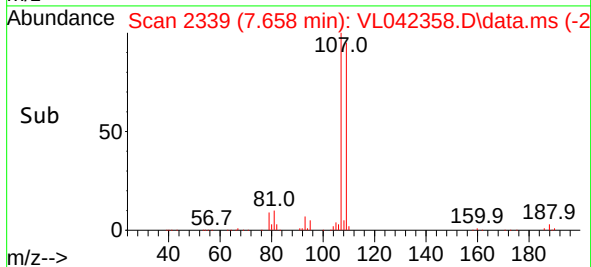
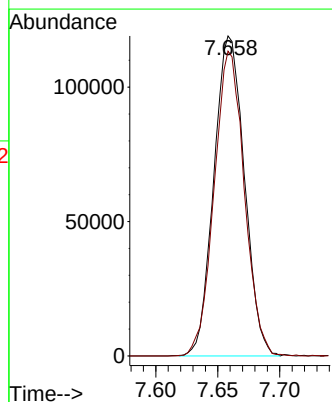
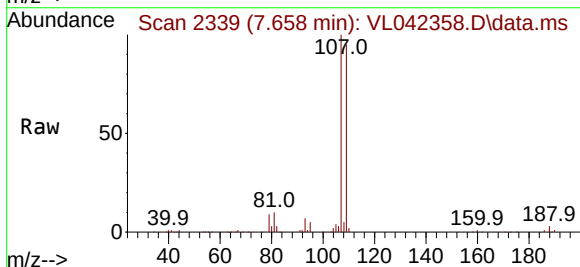
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

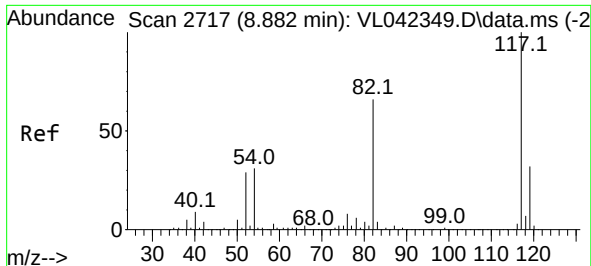
Tgt Ion: 91 Resp: 447581
Ion Ratio Lower Upper
91 100
92 60.3 48.2 72.4



#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

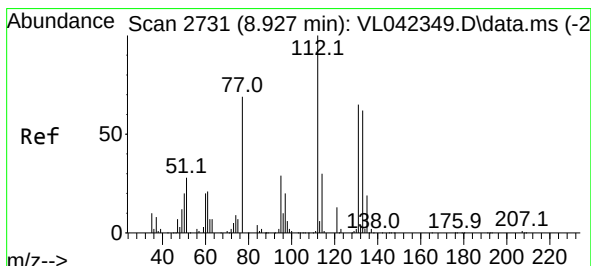
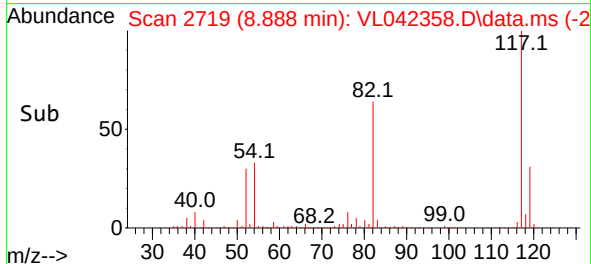
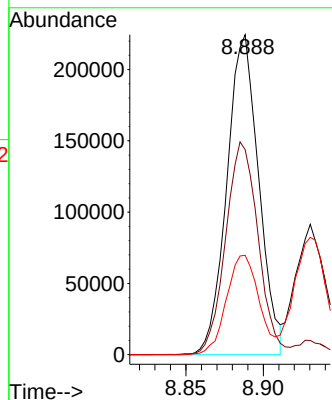
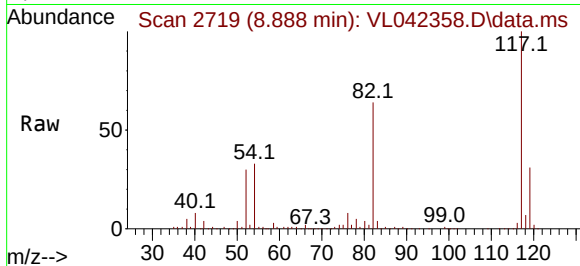




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2718
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

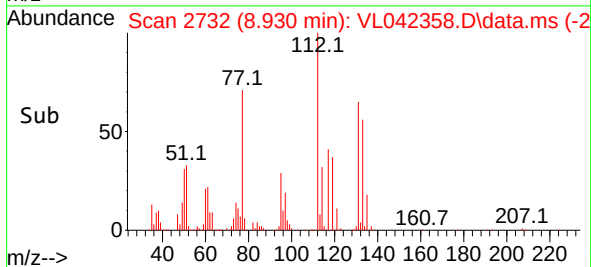
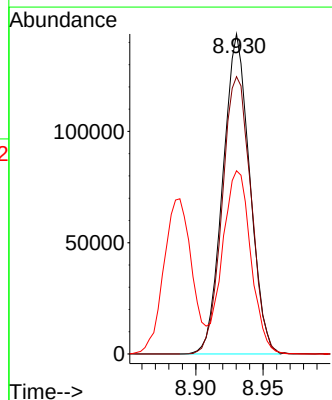
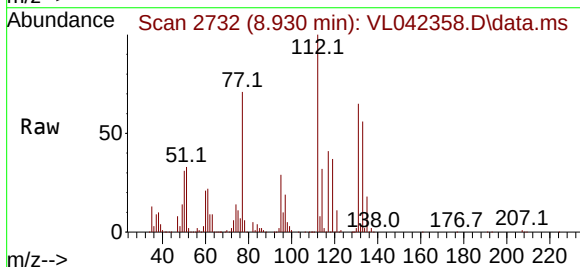
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

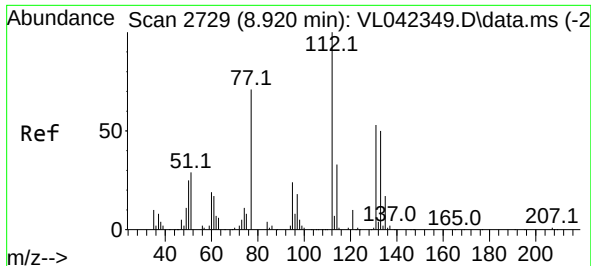
Tgt Ion:117 Resp: 321521
Ion Ratio Lower Upper
117 100
82 71.8 57.8 86.6
119 32.5 25.2 37.8



#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

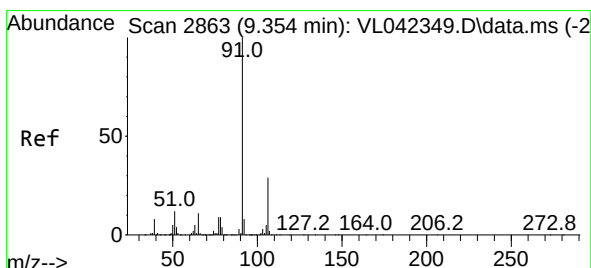
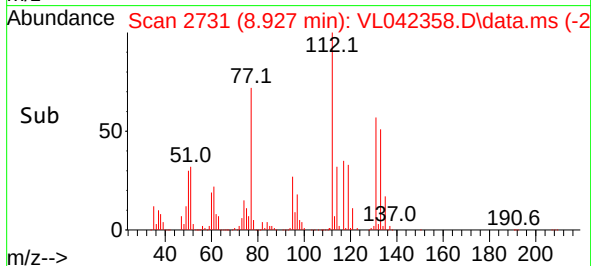
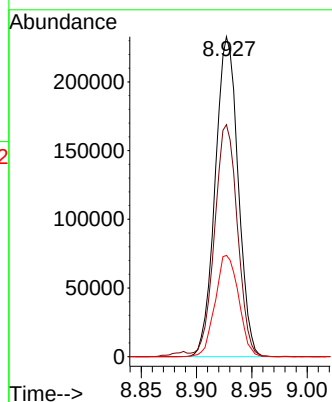
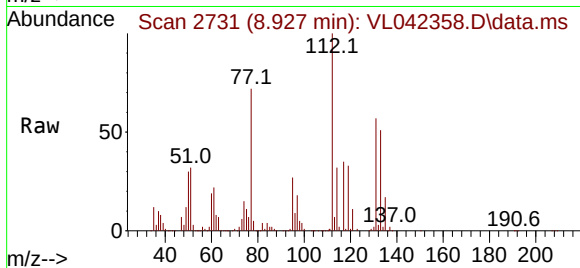
Tgt Ion:112 Resp: 335143

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

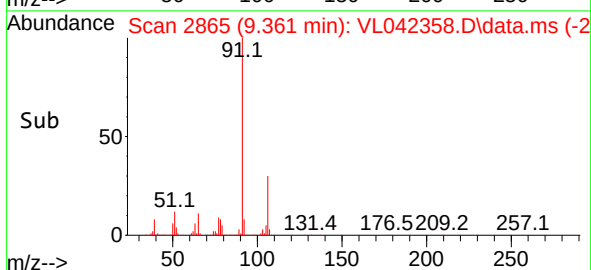
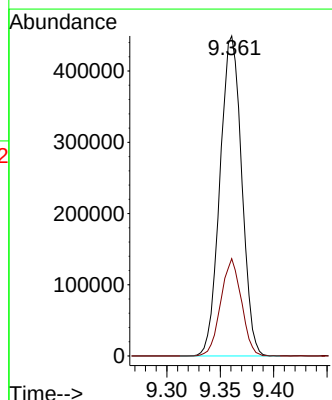
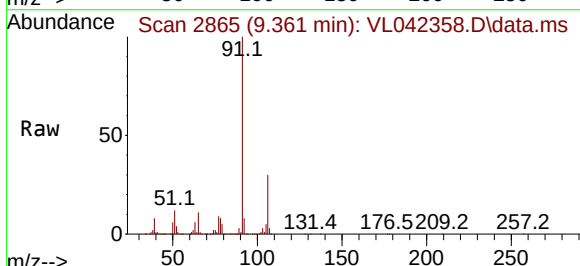
Acq: 17 Apr 2025 15:39

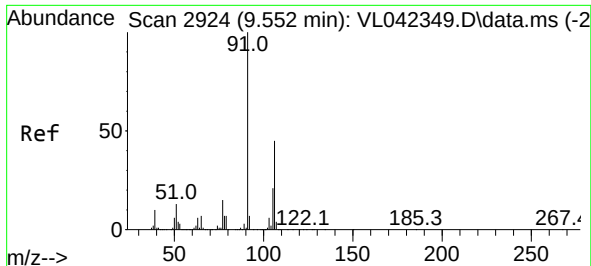
Tgt Ion: 91 Resp: 635446

Ion Ratio Lower Upper

91 100

106 30.4 23.0 34.4

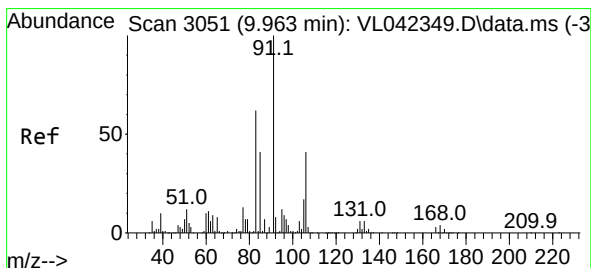
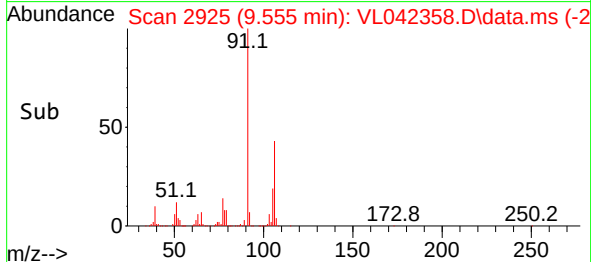
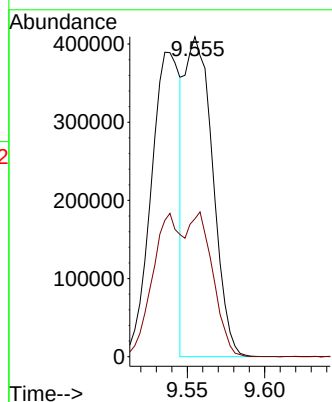
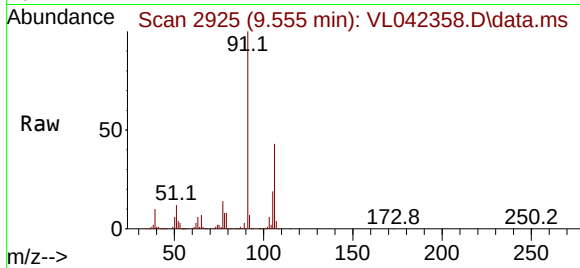




#59
m/p-Xylene
Concen: 10.001 ppbv
RT: 9.555 min Scan# 2924
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

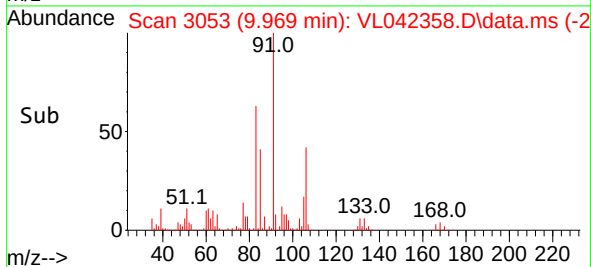
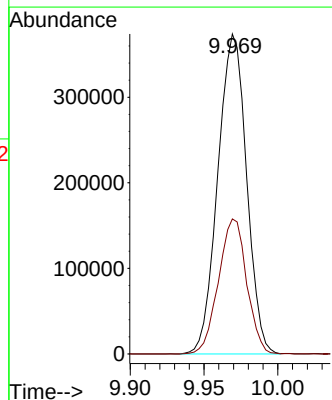
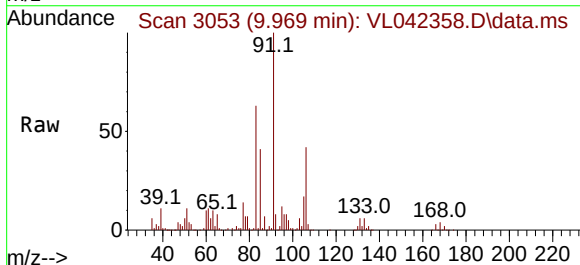
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

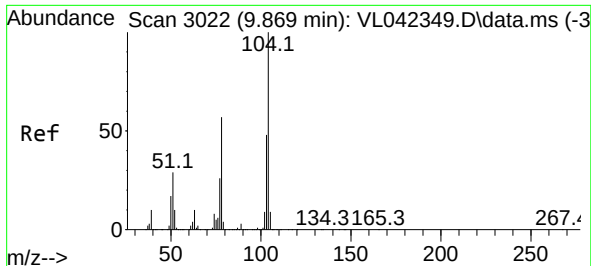
Tgt Ion: 91 Resp: 513237
Ion Ratio Lower Upper
91 100
106 87.8 35.4 53.2#



#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

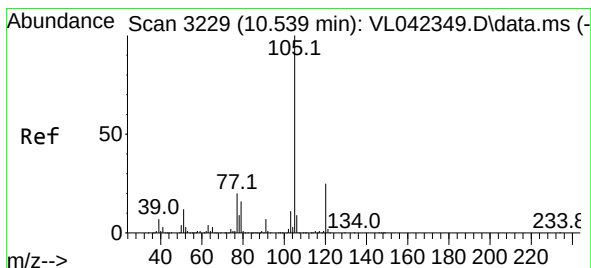
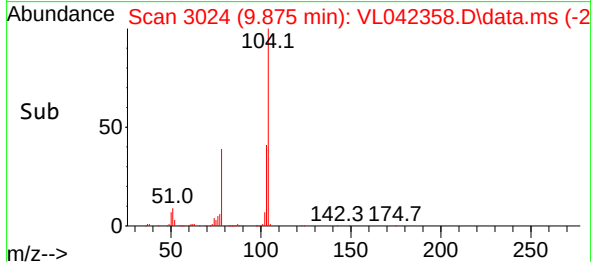
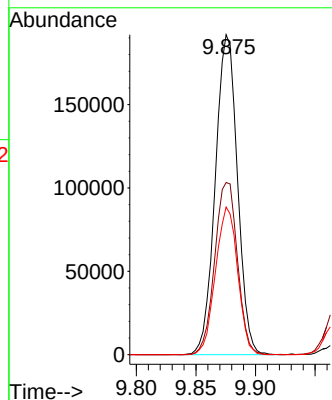
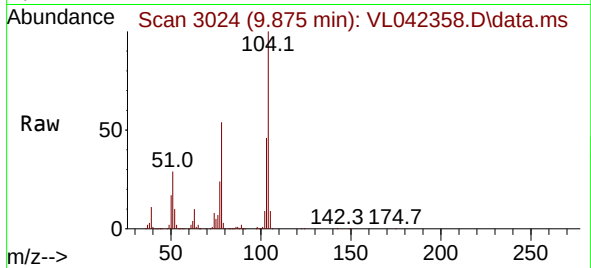




#61
Styrene
Concen: 10.055 ppbv
RT: 9.875 min Scan# 3022
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

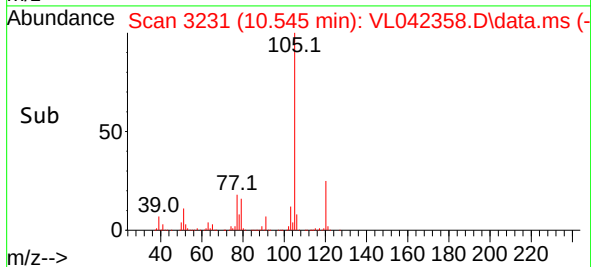
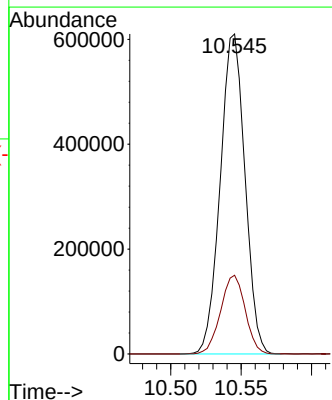
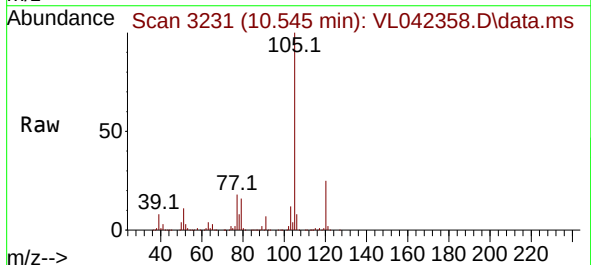
Instrument :
MSVOA_1
ClientSampleId :
VL0417ABS01

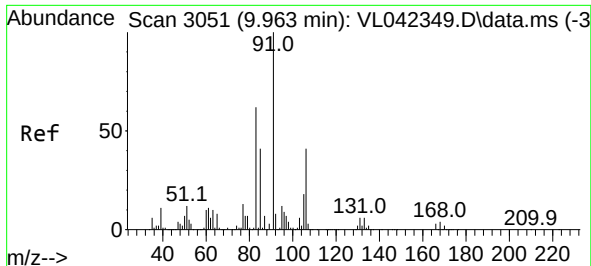
Tgt Ion:104 Resp: 248022
Ion Ratio Lower Upper
104 100
78 55.3 44.6 66.8
103 46.2 37.4 56.0



#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

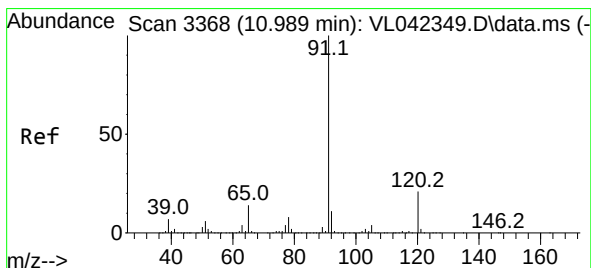
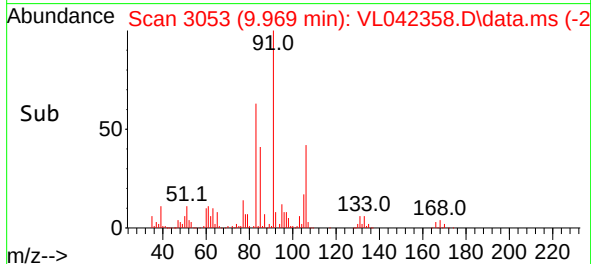
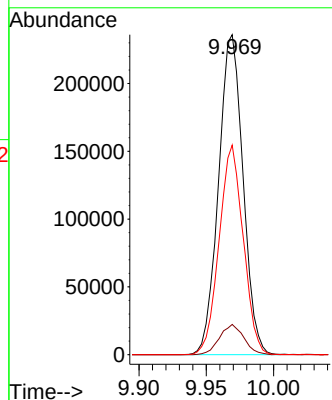
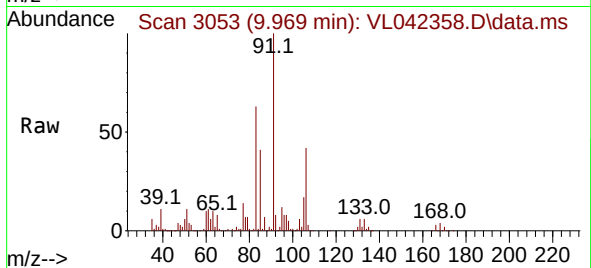
Tgt Ion: 83 Resp: 298581

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

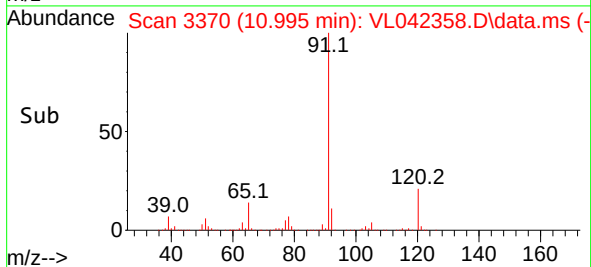
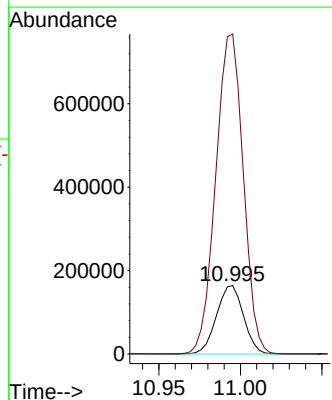
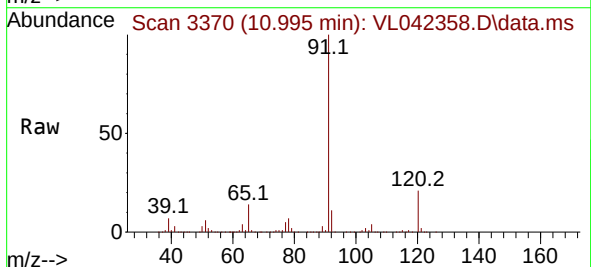
Acq: 17 Apr 2025 15:39

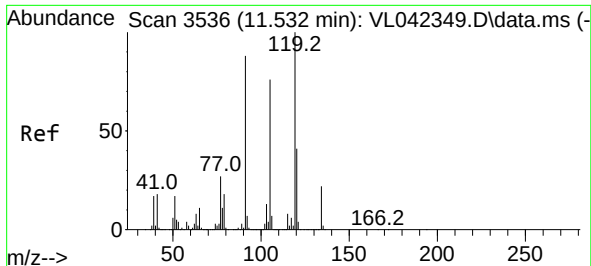
Tgt Ion: 120 Resp: 188310

Ion Ratio Lower Upper

120 100

91 478.2 392.4 588.6

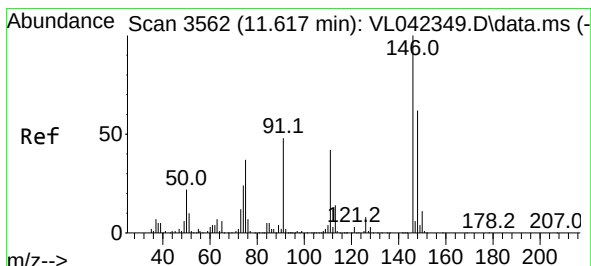
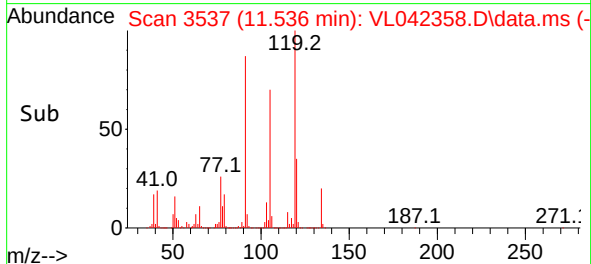
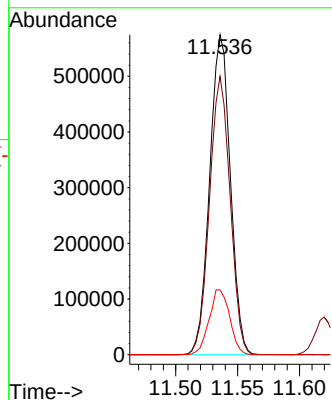
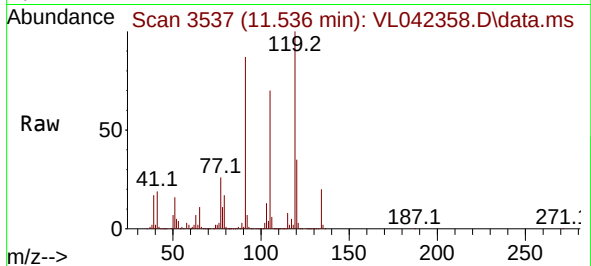




#65
tert-Butylbenzene
Concen: 9.589 ppbv
RT: 11.536 min Scan# 3536
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

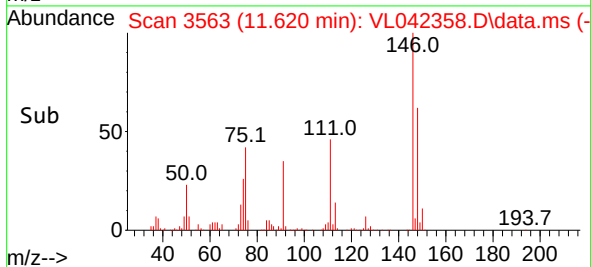
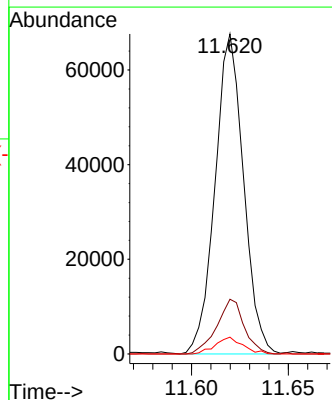
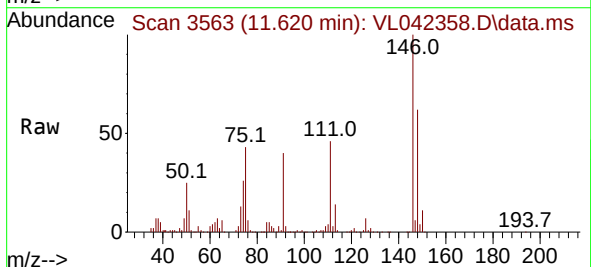
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

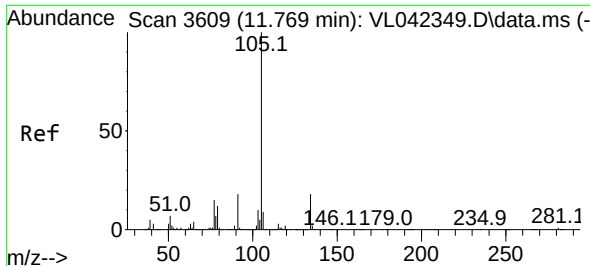
Tgt Ion:119 Resp: 668687
Ion Ratio Lower Upper
119 100
91 86.7 74.6 111.8
134 20.2 18.8 28.2



#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

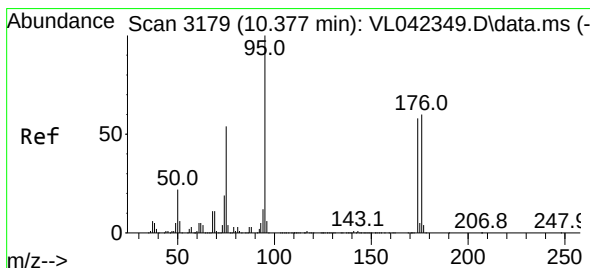
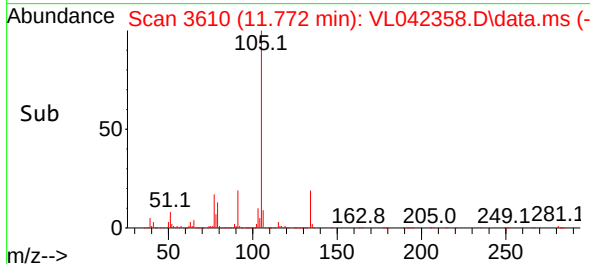
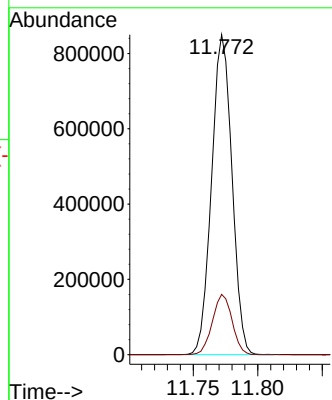
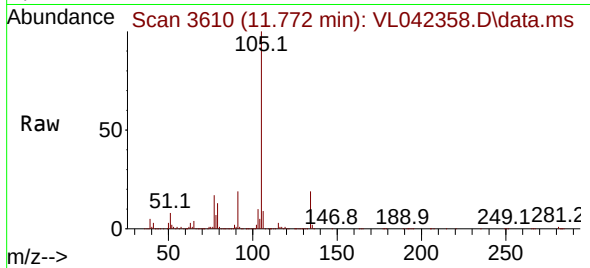




#67
 sec-Butylbenzene
 Concen: 9.592 ppbv
 RT: 11.772 min Scan# 3180
 Delta R.T. 0.003 min
 Lab File: VL042358.D
 Acq: 17 Apr 2025 15:39

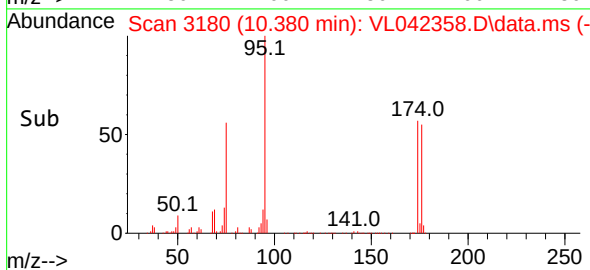
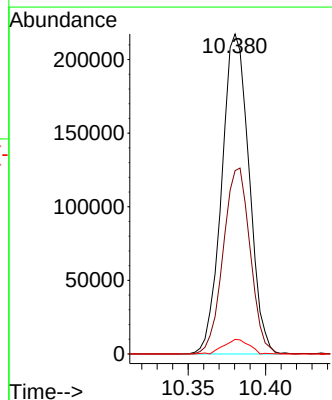
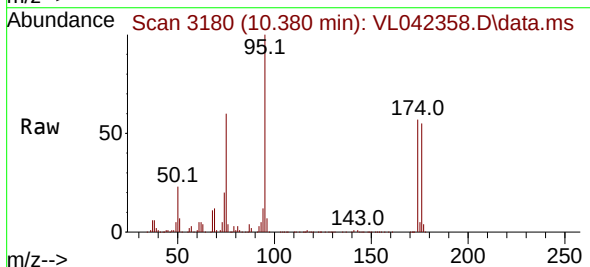
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0417ABS01

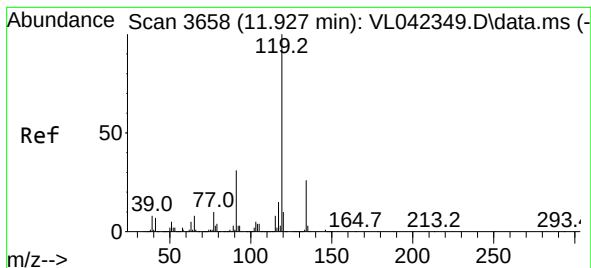
Tgt Ion:105 Resp: 930426
 Ion Ratio Lower Upper
 105 100
 134 18.3 14.6 21.8



#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

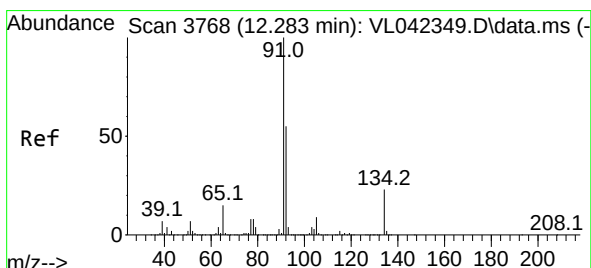
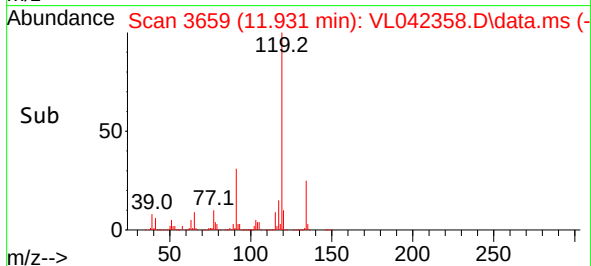
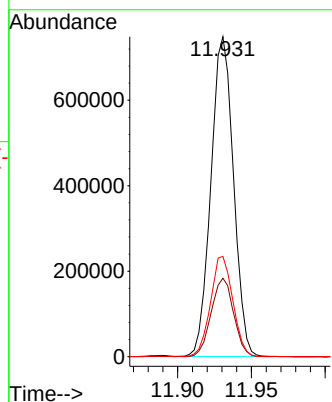
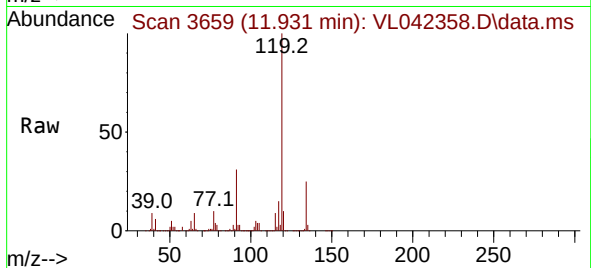
Tgt Ion:119 Resp: 795532

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

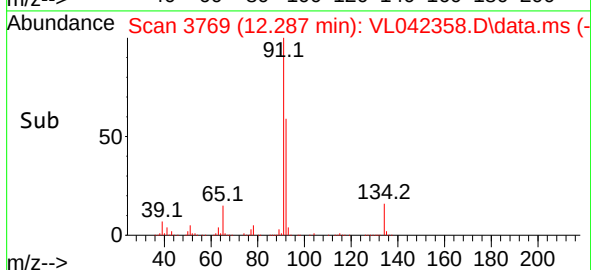
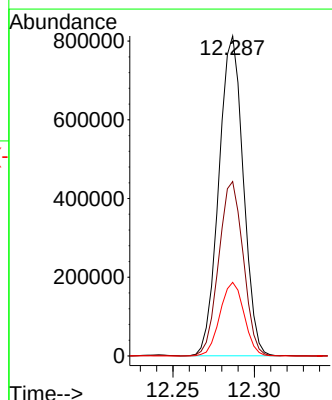
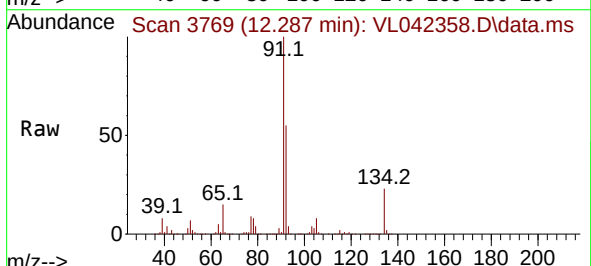
Tgt Ion: 91 Resp: 846427

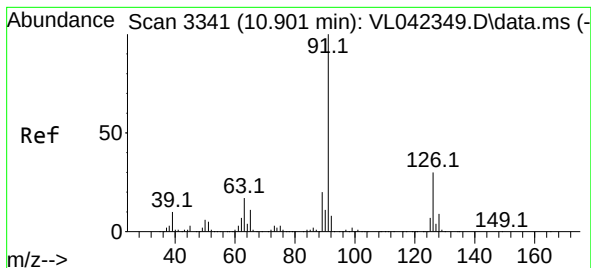
Ion Ratio Lower Upper

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 :

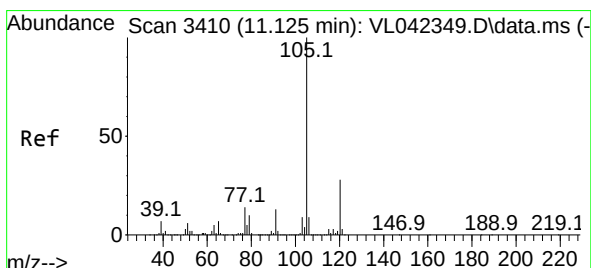
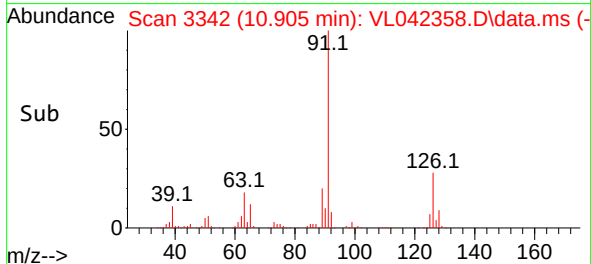
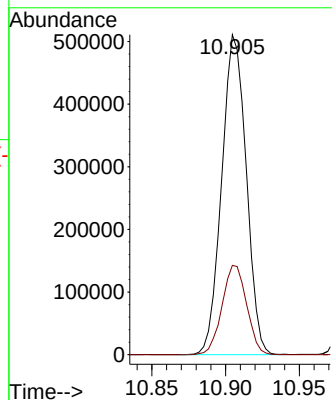
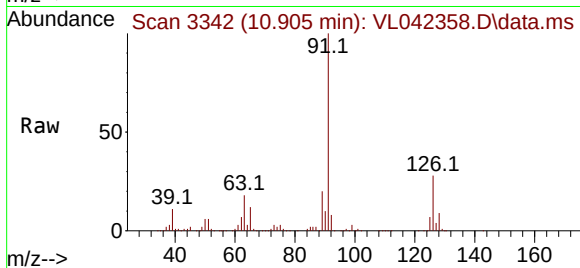
VL0417ABS01

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

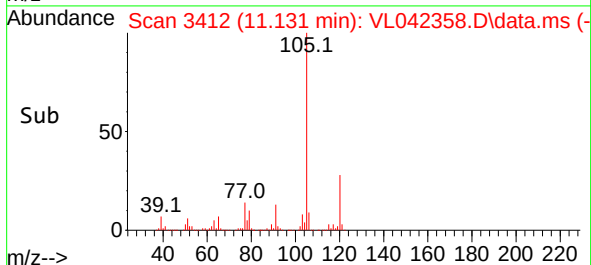
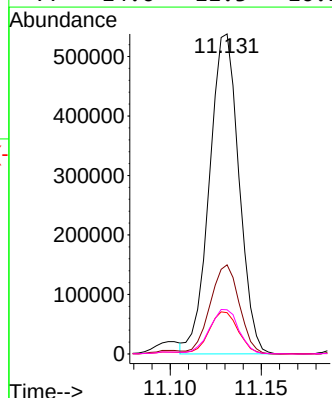
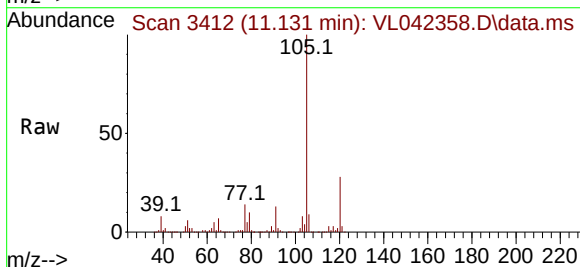
Ion Ratio Lower Upper

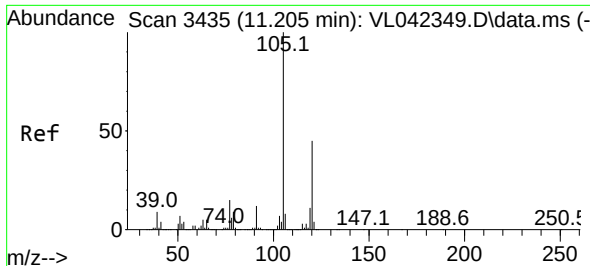
105 100

120 28.6 23.2 34.8

91 13.5 10.4 15.6

77 14.6 11.3 16.9

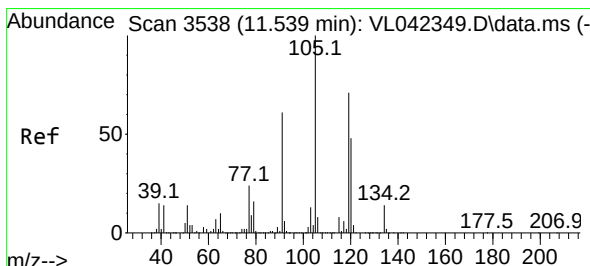
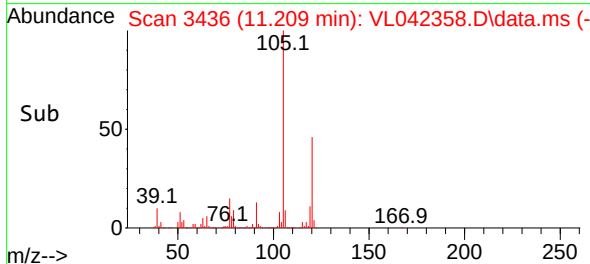
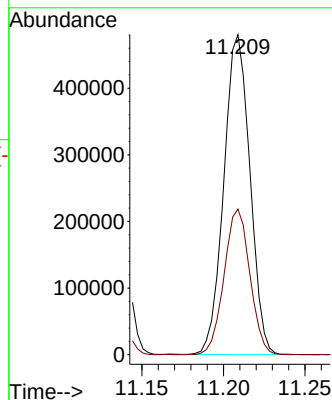
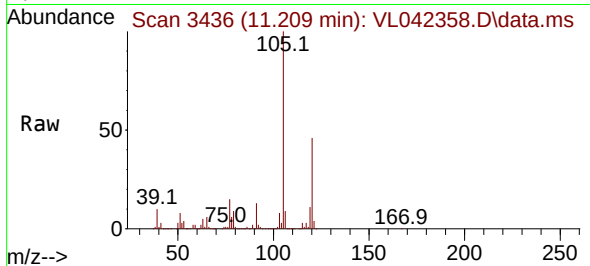




#73
1,3,5-Trimethylbenzene
Concen: 9.557 ppbv
RT: 11.209 min Scan# 3435
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

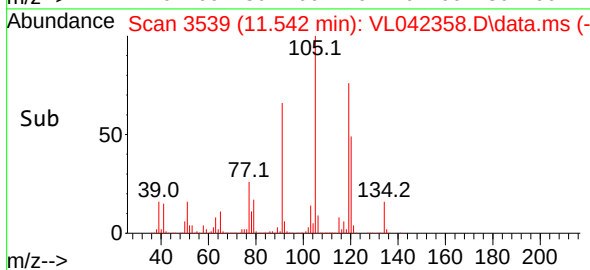
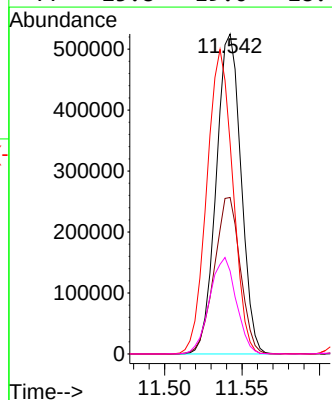
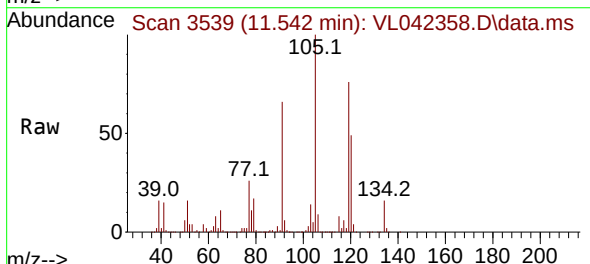
Instrument :
MSVOA_1
ClientSampleId :
VL0417ABS01

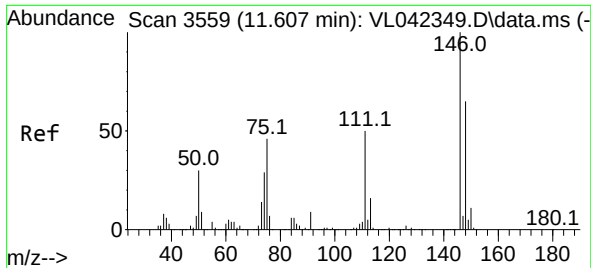
Tgt Ion:105 Resp: 533060
Ion Ratio Lower Upper
105 100
120 45.6 35.6 53.4



#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

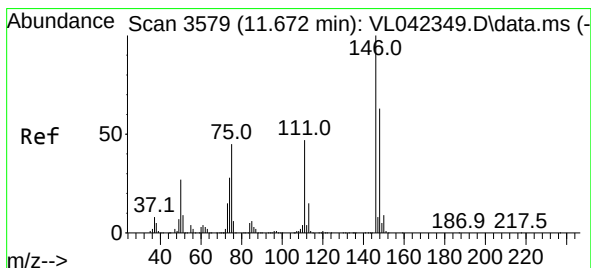
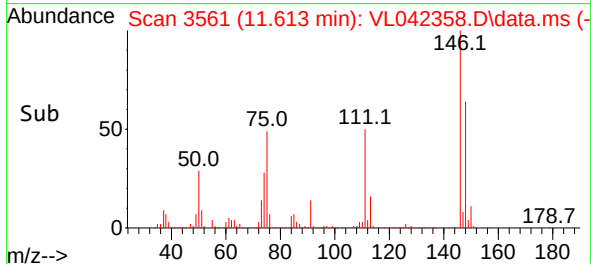
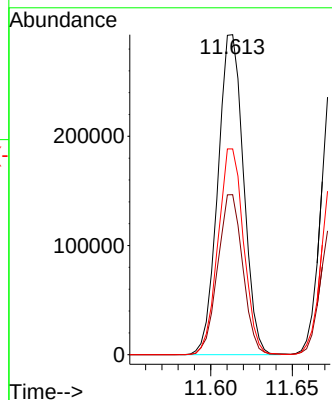
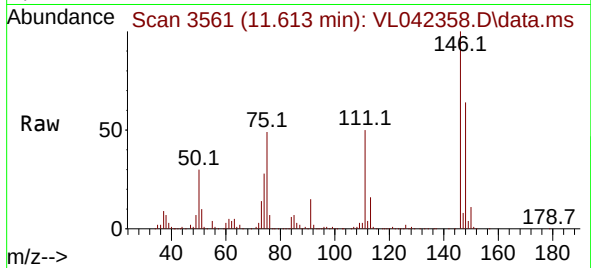




#75
1,3-Dichlorobenzene
Concen: 9.474 ppbv
RT: 11.613 min Scan# 3559
Delta R.T. 0.007 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

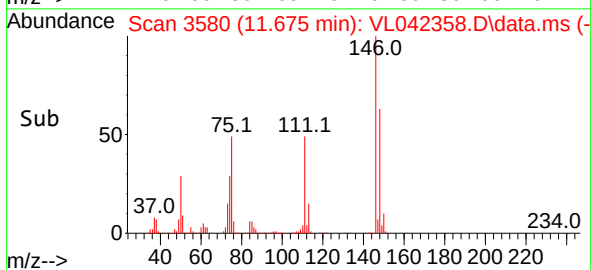
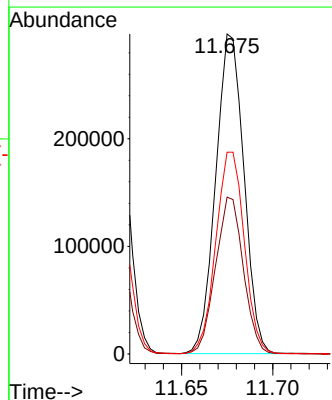
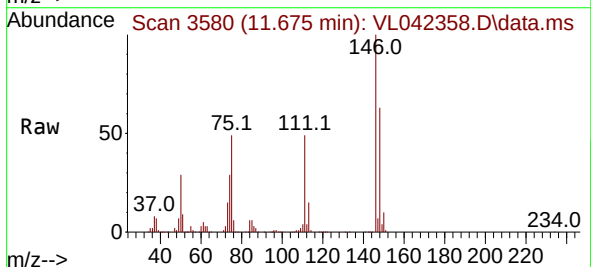
Instrument :
MSVOA_L
ClientSampleId :
VL0417ABS01

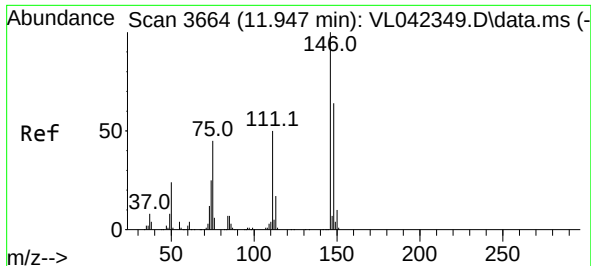
Tgt Ion:146 Resp: 320811
Ion Ratio Lower Upper
146 100
111 48.8 24.3 72.8
148 64.0 31.6 94.8



#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

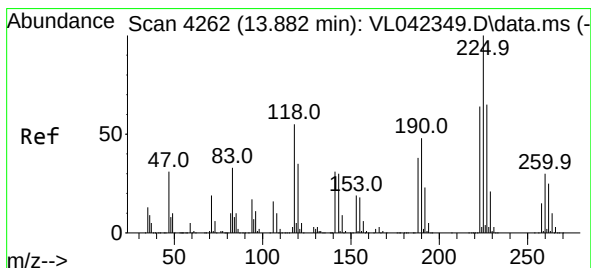
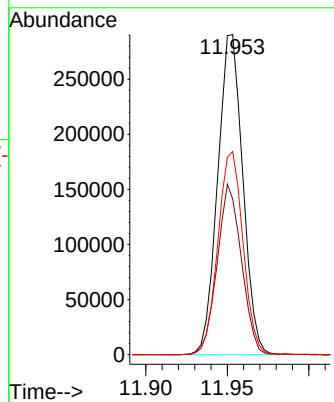
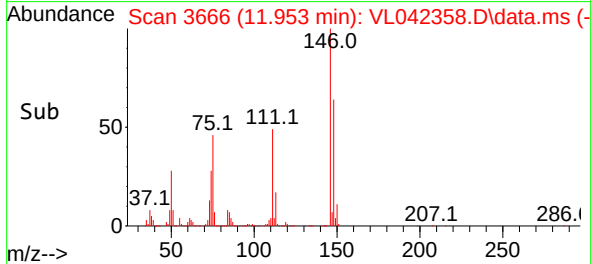
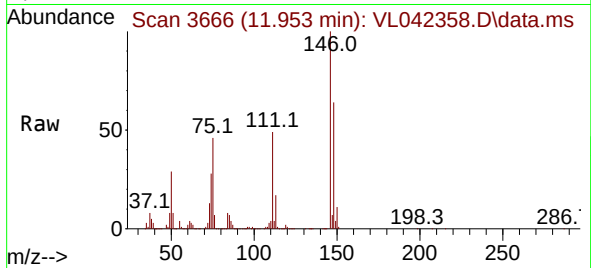




#77
 1,2-Dichlorobenzene
 Concen: 9.459 ppbv
 RT: 11.953 min Scan# 3666
 Delta R.T. 0.007 min
 Lab File: VL042358.D
 Acq: 17 Apr 2025 15:39

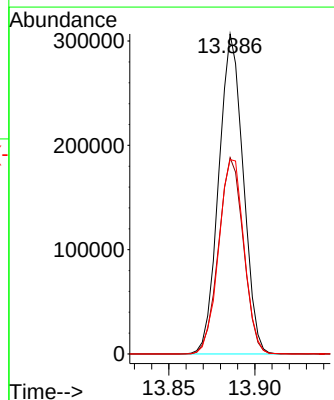
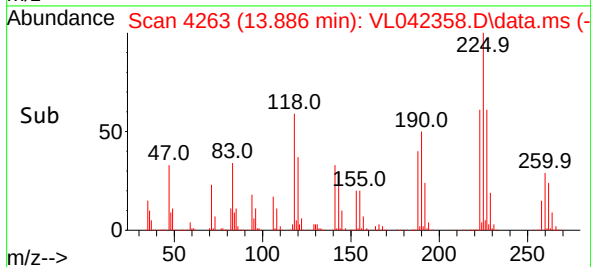
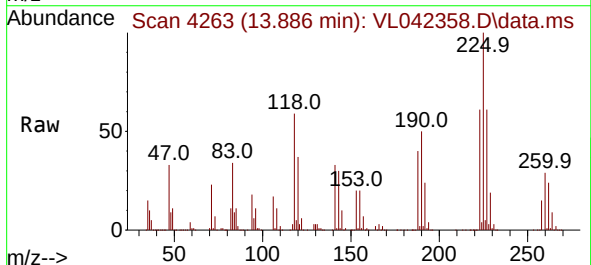
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0417ABS01

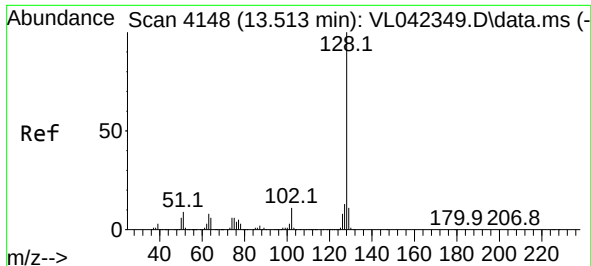
Tgt Ion:146 Resp: 311460
 Ion Ratio Lower Upper
 146 100
 111 51.4 25.3 75.9
 148 63.4 31.5 94.5



#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

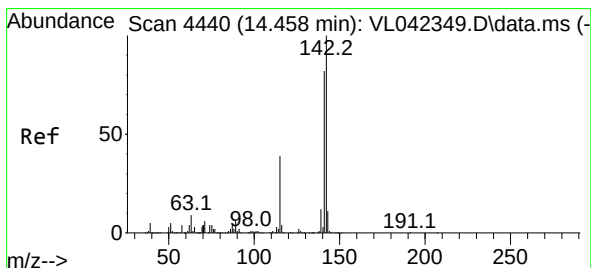
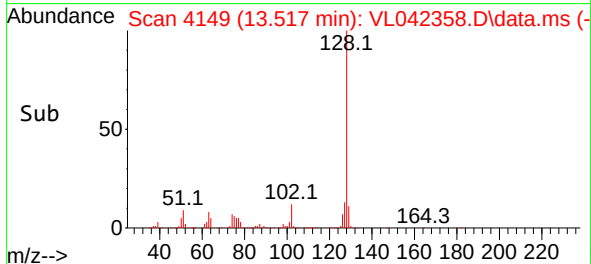
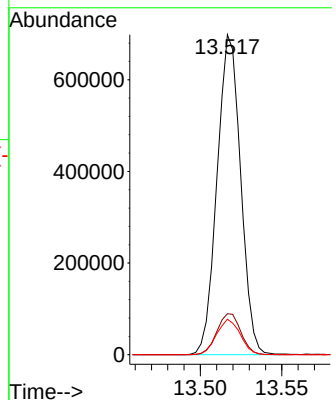
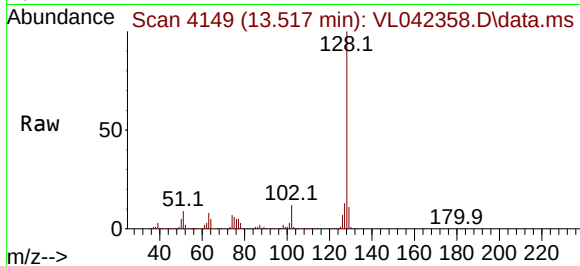




#79
Naphthalene
Concen: 8.999 ppbv
RT: 13.517 min Scan# 4148
Delta R.T. 0.003 min
Lab File: VL042358.D
Acq: 17 Apr 2025 15:39

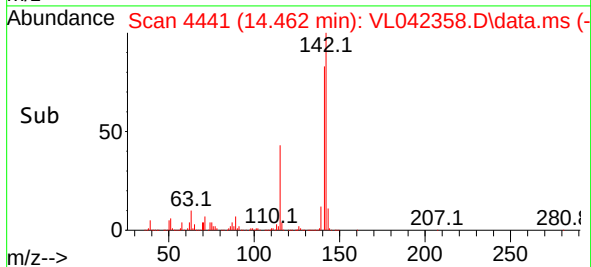
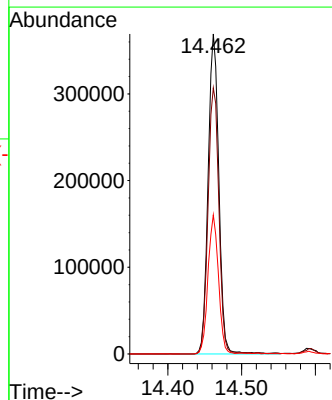
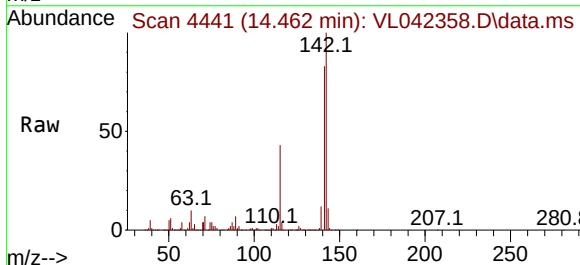
Instrument :
MSVOA_1
ClientSampleId :
VL0417ABS01

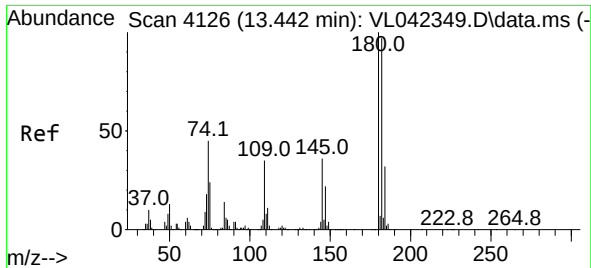
Tgt Ion:128 Resp: 701010
Ion Ratio Lower Upper
128 100
127 12.8 10.6 15.8
129 11.1 8.6 12.8



#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

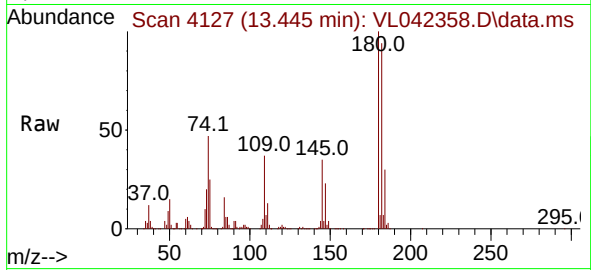
Acq: 17 Apr 2025 15:39

Instrument :

MSVOA_L

ClientSampleId :

VL0417ABS01



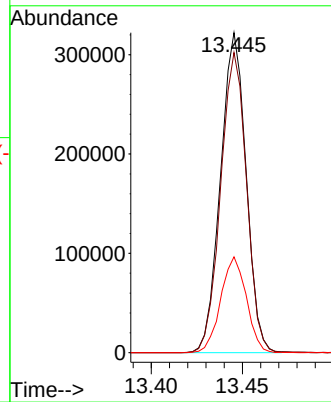
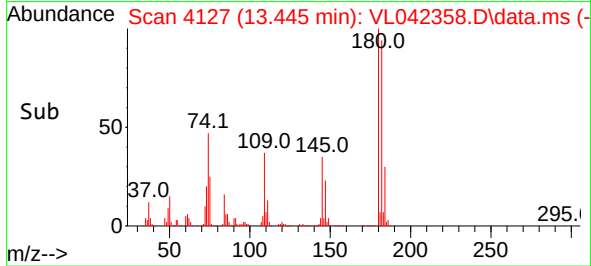
Tgt Ion:180 Resp: 315002

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 : VL042366.D
 Acq On : 17 Apr 2025 20:05
 Operator : SY/MD
 Sample : Q1726-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-DUP-3-03312025

Quant Time: Apr 18 02:42:22 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	122216	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	344823	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	303405	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	252701	10.136	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.400%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	10356	0.480	ppbv	94
3) Chlorodifluoromethane	1.466	51	54573	2.654	ppbv #	63
4) Chloromethane	1.531	50	4947	0.579	ppbv	94
6) Bromomethane	1.664	94	144	0.036	ppbv #	8
7) Chloroethane	1.696	64	135	0.040	ppbv #	85
9) Propene	1.560	41	70824	7.563	ppbv	96
10) Heptane	4.978	43	219183	8.331	ppbv	97
11) Trichlorofluoromethane	1.877	101	5014	0.244	ppbv	93
12) 1,1,2-Trichlorotrifluo...	2.136	101	1157	0.069	ppbv	84
13) Ethanol	1.722	45	370679	249.050	ppbv	75
15) Acetone	1.835	43	3072130	153.552	ppbv #	43
16) 1,3-Butadiene	1.622	39	30747	3.213	ppbv #	15
17) tert-Butyl alcohol	2.046	59	13005	0.525	ppbv #	61
19) Isopropyl Alcohol	1.887	45	316355	28.464	ppbv #	33
20) Methylene Chloride	2.062	84	16692	2.130	ppbv	91
21) Allyl Chloride	2.046	41	3913	0.283	ppbv #	23
23) Vinyl Acetate	2.473	43	79634	9.833	ppbv #	49
25) Ethyl Acetate	2.826	43	77759	1.576	ppbv #	86
26) Hexane	2.826	57	94163	4.717	ppbv #	36
27) Carbon Disulfide	2.153	76	1109	0.052	ppbv #	42
30) Cyclohexane	3.855	84	31546	1.955	ppbv #	88
34) 2-Butanone	2.560	43	30497	1.118	ppbv	99
35) Carbon Tetrachloride	3.761	117	1489	0.048	ppbv	89
36) Benzene	3.654	78	64219	1.727	ppbv	97
37) 1,2-Dichloroethane	3.221	62	2839	0.127	ppbv #	62
39) 1,2-Dichloropropane	3.959	63	90263	6.513	ppbv #	24
41) Tetrahydrofuran	3.069	42	3495	0.220	ppbv #	80
42) Bromodichloromethane	4.515	83	6225	0.200	ppbv #	25
43) Methyl Methacrylate	4.894	69	1290	0.077	ppbv #	1
44) 2,2,4-Trimethylpentane	4.642	57	1167050	18.168	ppbv	95
50) 4-Methyl-2-Pentanone	5.778	43	5813	0.128	ppbv #	61
51) 2-Hexanone	7.419	43	83604	2.057	ppbv #	32
52) Tetrachloroethene	8.231	164	1048	0.073	ppbv #	72
53) Toluene	6.940	91	2194341	49.165	ppbv	99
58) Ethyl Benzene	9.357	91	668072	11.113	ppbv	99
59) m/p-Xylene	9.535	91	1861243	38.435	ppbv	100
60) o-Xylene	9.966	91	753743	15.456	ppbv	99
61) Styrene	9.872	104	8179	0.351	ppbv	92
62) Isopropylbenzene	10.539	105	70653	0.987	ppbv	99
64) n-propylbenzene	10.992	120	59824	3.324	ppbv	92
65) tert-Butylbenzene	11.539	119	131539	1.999	ppbv #	73
66) Benzyl Chloride	11.539	91	148615	20.553	ppbv #	70
67) sec-Butylbenzene	11.769	105	21870	0.239	ppbv #	82

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042366.D
Acq On : 17 Apr 2025 20:05
Operator : SY/MD
Sample : Q1726-01
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

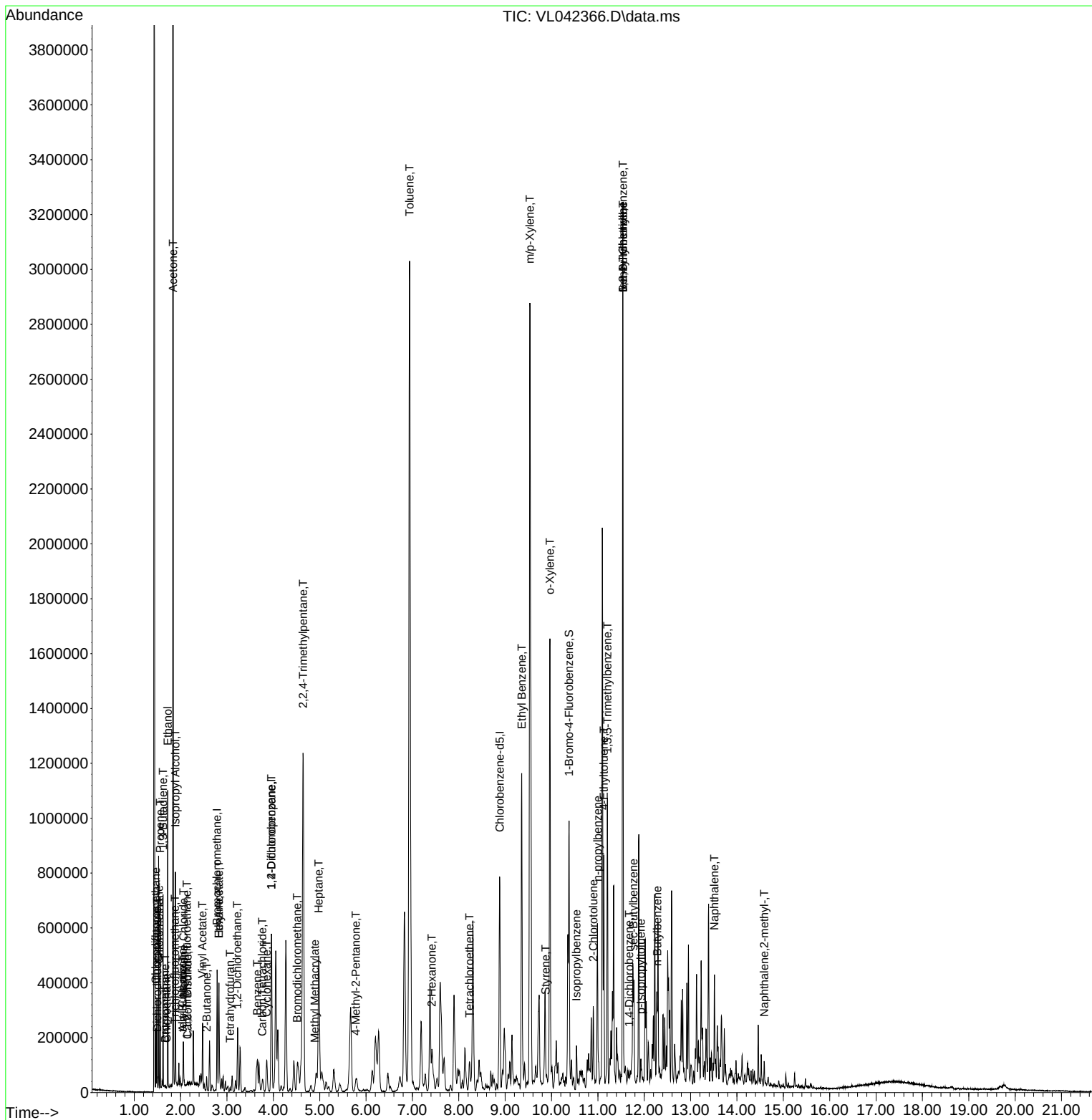
Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

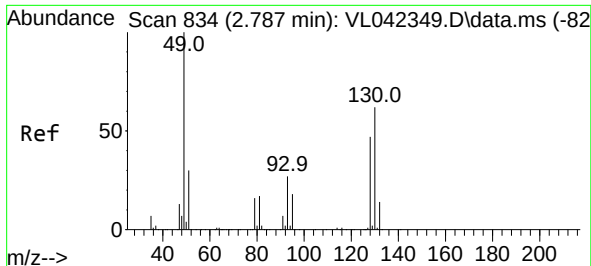
Quant Time: Apr 18 02:42:22 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri Apr 18 02:14:00 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
69) p-Isopropyltoluene	11.927	119	29958	0.377	ppbv	98
70) n-Butylbenzene	12.283	91	67288	0.812	ppbv #	81
71) 2-Chlorotoluene	10.901	91	53769	0.958	ppbv	99
72) 4-Ethyltoluene	11.128	105	338919	5.685	ppbv #	56
73) 1,3,5-Trimethylbenzene	11.205	105	368859	7.008	ppbv	99
74) 1,2,4-Trimethylbenzene	11.539	105	1184512	19.268	ppbv #	66
76) 1,4-Dichlorobenzene	11.672	146	8250	0.257	ppbv #	36
79) Naphthalene	13.513	128	171574	2.334	ppbv	99
80) Naphthalene,2-methyl-	14.588	142	23011	0.549	ppbv	87

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

Quant Time: Apr 18 02:42:22 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

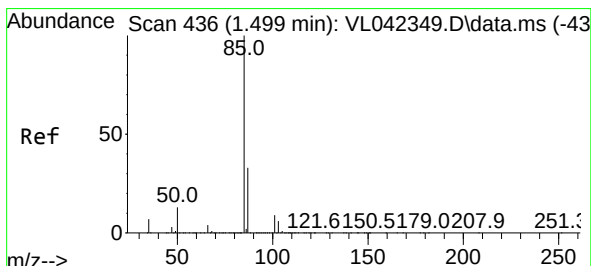
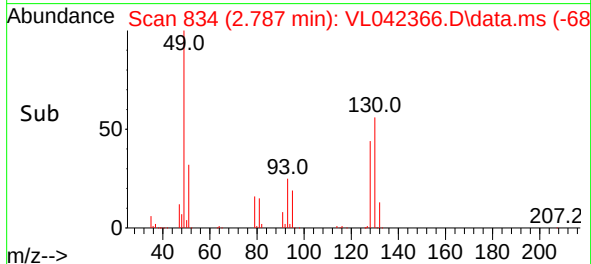
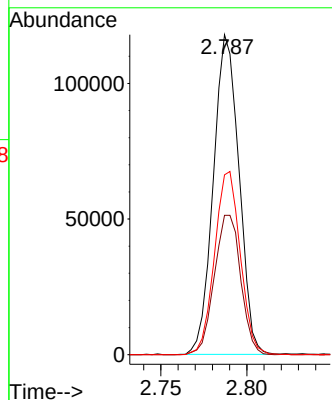
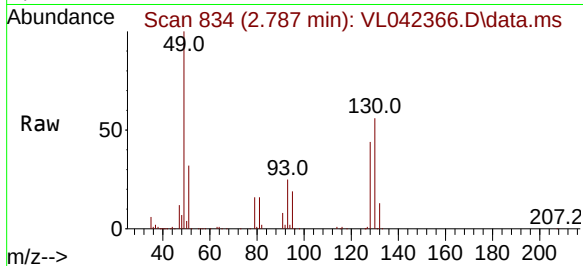




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.787 min Scan# 834
 Delta R.T. -0.000 min
 Lab File: VL042366.D
 Acq: 17 Apr 2025 20:05

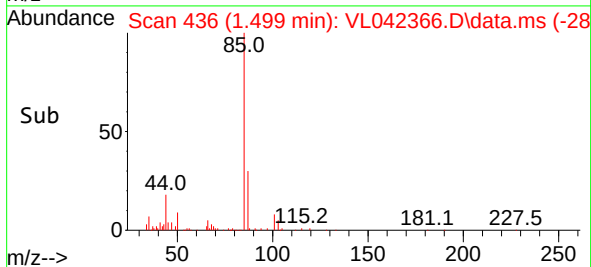
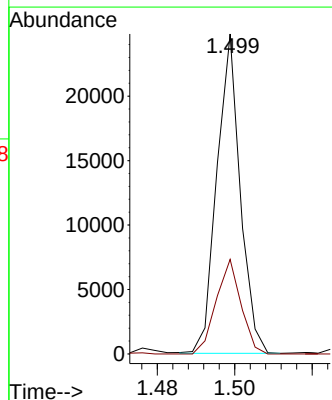
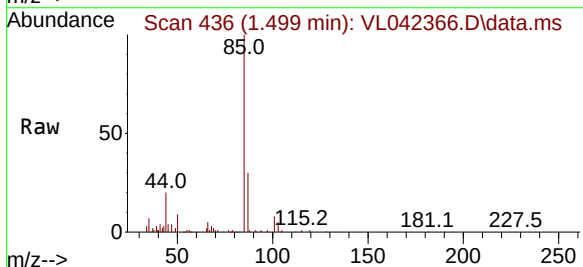
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-DUP-3-03312025

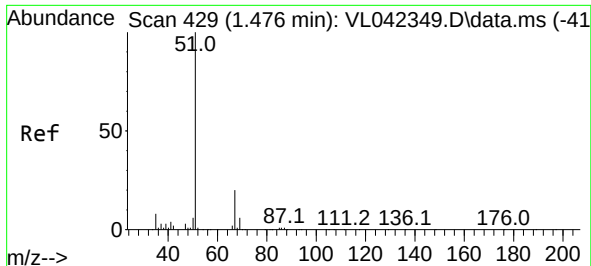
Tgt Ion: 49 Resp: 122216
 Ion Ratio Lower Upper
 49 100
 128 44.9 22.8 68.4
 130 57.5 29.3 88.0



#2
 Dichlorodifluoromethane
 Concen: 0.480 ppbv
 RT: 1.499 min Scan# 436
 Delta R.T. 0.000 min
 Lab File: VL042366.D
 Acq: 17 Apr 2025 20:05

Tgt Ion: 85 Resp: 10356
 Ion Ratio Lower Upper
 85 100
 87 29.6 26.6 39.8

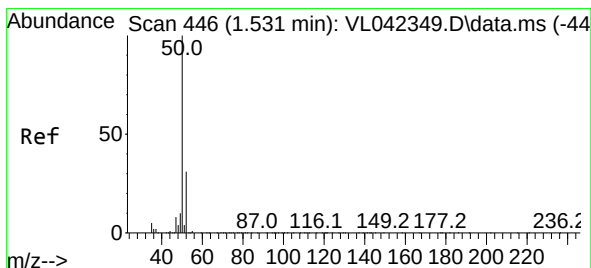
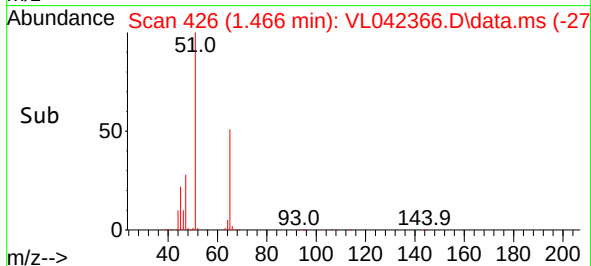
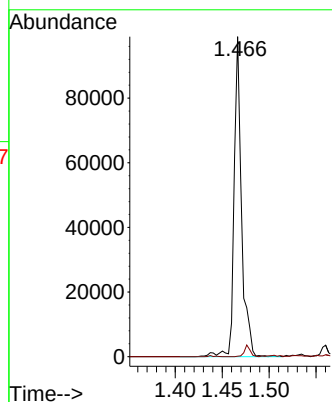
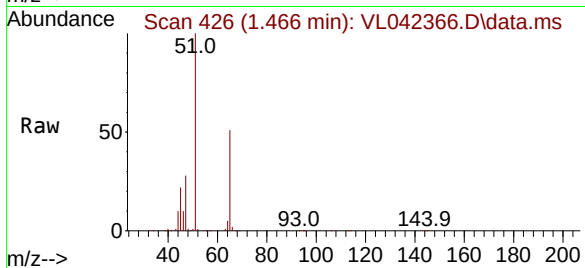




#3
Chlorodifluoromethane
Concen: 2.654 ppbv
RT: 1.466 min Scan# 41
Delta R.T. -0.010 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

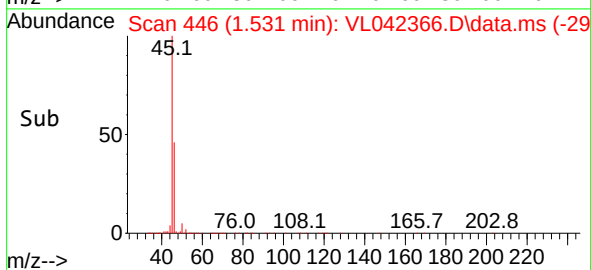
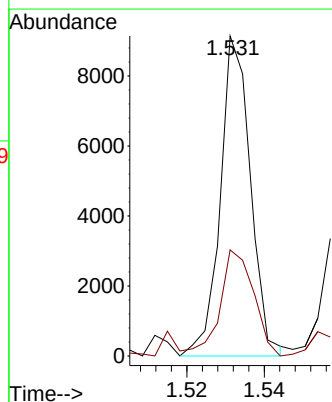
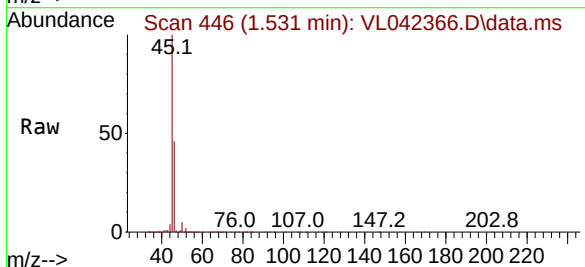
Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

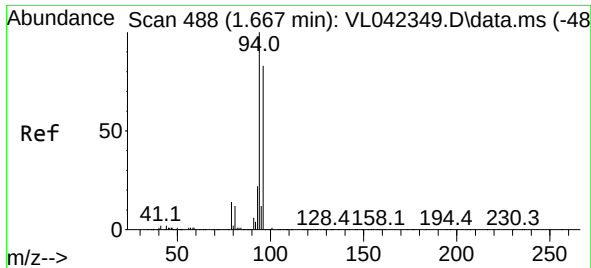
Tgt Ion: 51 Resp: 54573
Ion Ratio Lower Upper
51 100
67 3.3 16.2 24.4#



#4
Chloromethane
Concen: 0.579 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion: 50 Resp: 4947
Ion Ratio Lower Upper
50 100
52 34.2 24.7 37.1

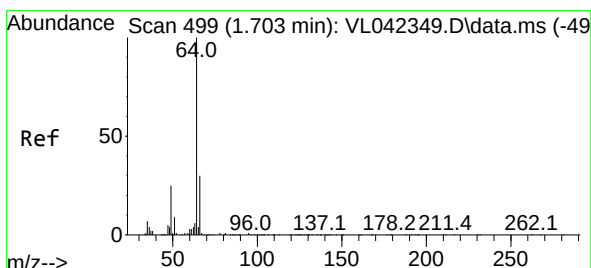
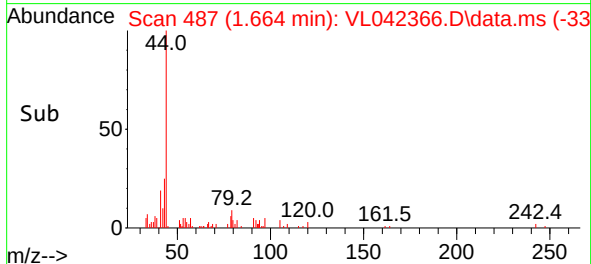
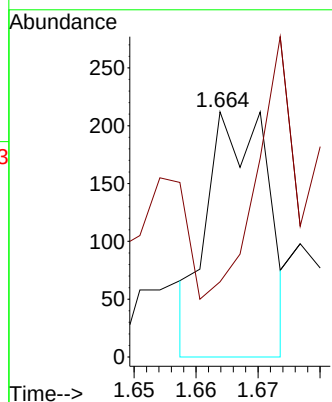
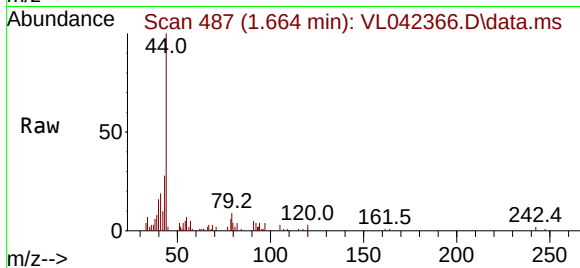




#6
Bromomethane
Concen: 0.036 ppbv
RT: 1.664 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

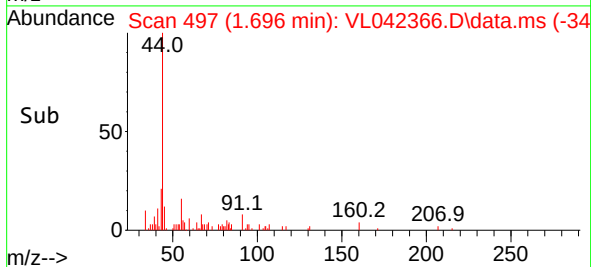
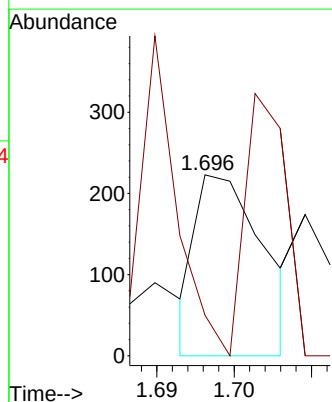
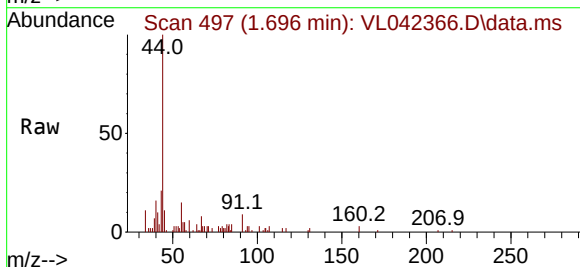
Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

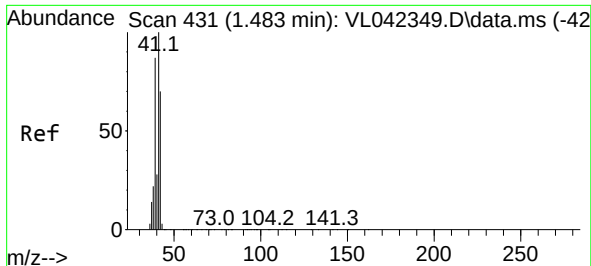
Tgt Ion: 94 Resp: 144
Ion Ratio Lower Upper
94 100
96 0.0 66.2 99.2#



#7
Chloroethane
Concen: 0.040 ppbv
RT: 1.696 min Scan# 497
Delta R.T. -0.006 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion: 64 Resp: 135
Ion Ratio Lower Upper
64 100
66 22.4 24.6 37.0#





#9

Propene

Concen: 7.563 ppbv

RT: 1.560 min Scan# 41

Delta R.T. 0.078 min

Lab File: VL042366.D

Acq: 17 Apr 2025 20:05

Instrument :

MSVOA_1

ClientSampleId :

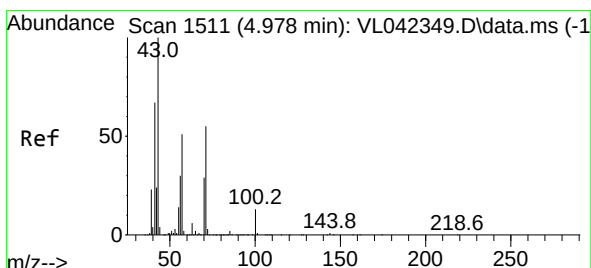
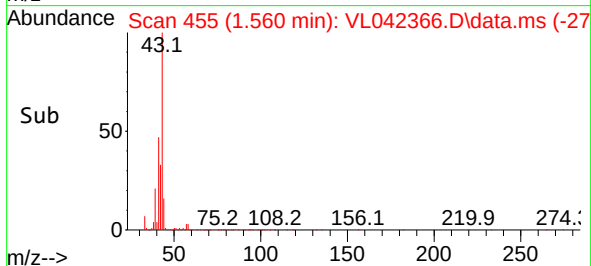
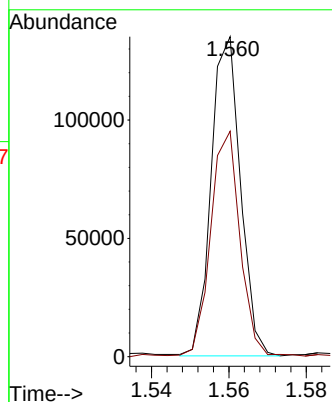
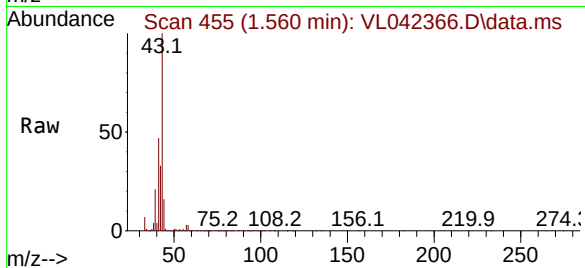
IA-DUP-3-03312025

Tgt Ion: 41 Resp: 70824

Ion Ratio Lower Upper

41 100

42 73.4 56.2 84.4



#10

Heptane

Concen: 8.331 ppbv

RT: 4.978 min Scan# 1511

Delta R.T. 0.000 min

Lab File: VL042366.D

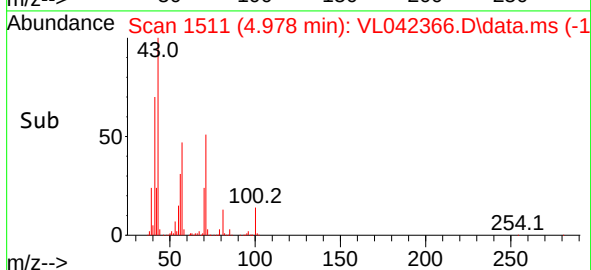
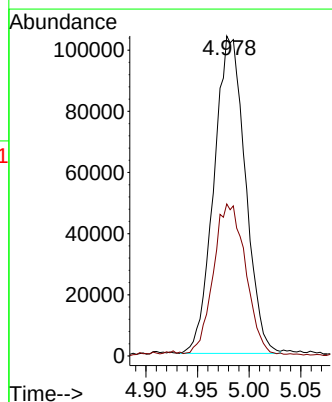
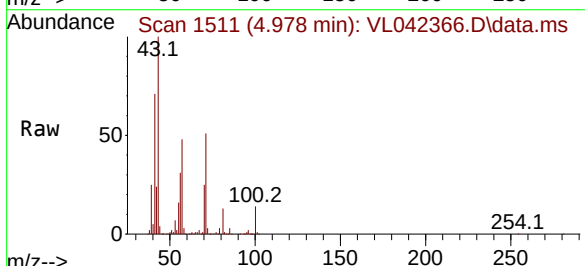
Acq: 17 Apr 2025 20:05

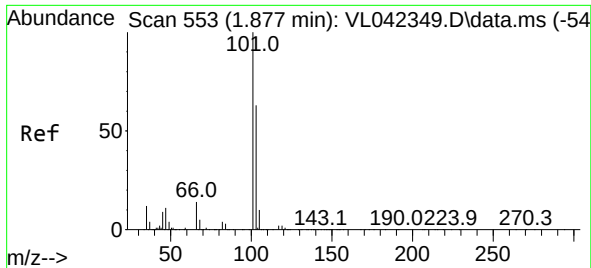
Tgt Ion: 43 Resp: 219183

Ion Ratio Lower Upper

43 100

57 51.9 39.9 59.9

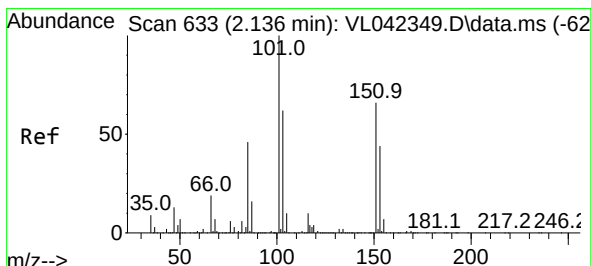
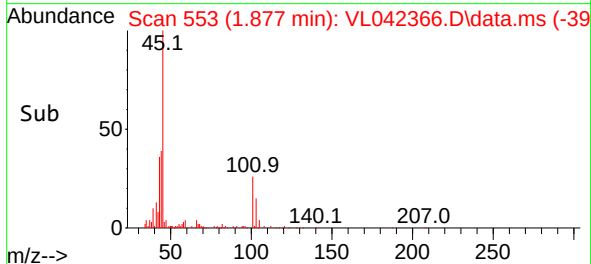
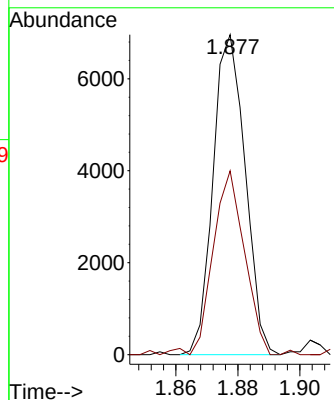
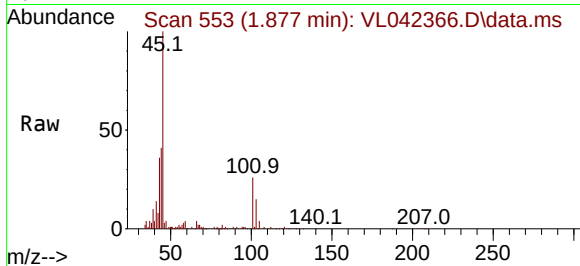




#11
 Trichlorofluoromethane
 Concen: 0.244 ppbv
 RT: 1.877 min Scan# 511
 Delta R.T. 0.000 min
 Lab File: VL042366.D
 Acq: 17 Apr 2025 20:05

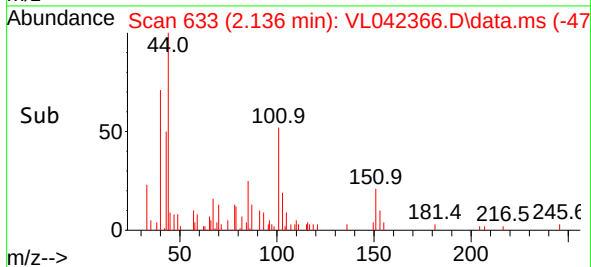
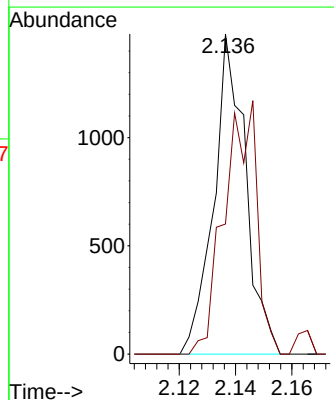
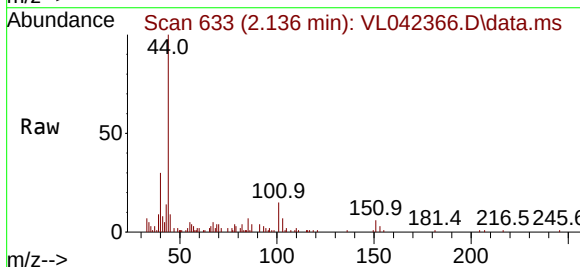
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-DUP-3-03312025

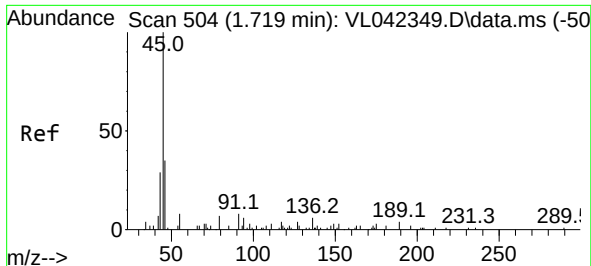
Tgt Ion:101 Resp: 5014
 Ion Ratio Lower Upper
 101 100
 103 57.5 50.1 75.1



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.069 ppbv
 RT: 2.136 min Scan# 633
 Delta R.T. 0.000 min
 Lab File: VL042366.D
 Acq: 17 Apr 2025 20:05

Tgt Ion:101 Resp: 1157
 Ion Ratio Lower Upper
 101 100
 151 84.4 57.0 85.6

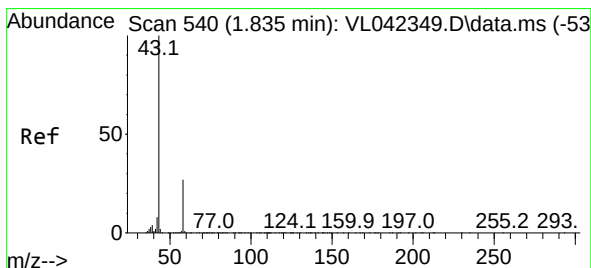
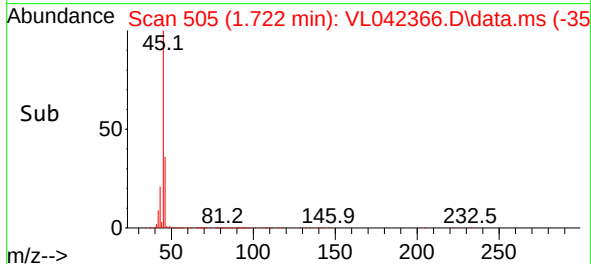
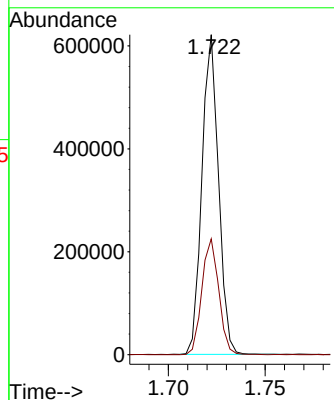
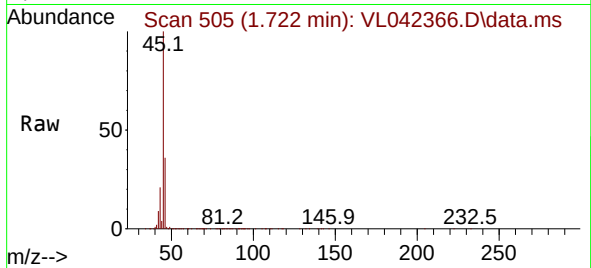




#13
Ethanol
Concen: 249.050 ppbv
RT: 1.722 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

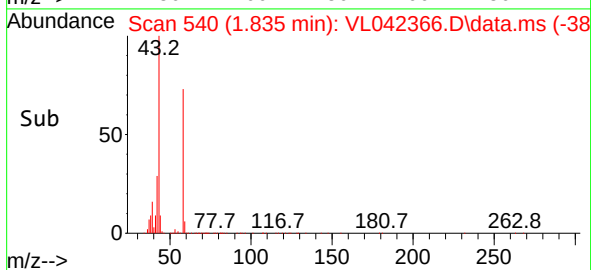
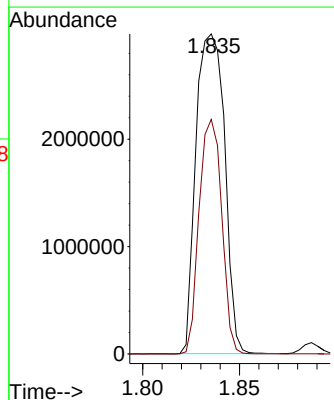
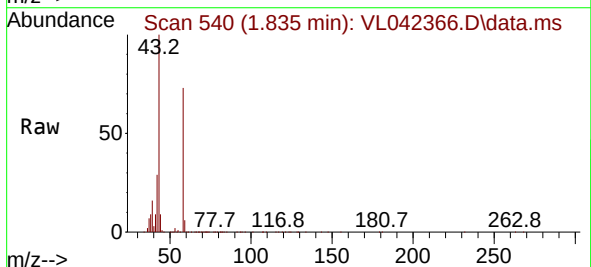
Instrument :
MSVOA_1
ClientSampleId :
IA-DUP-3-03312025

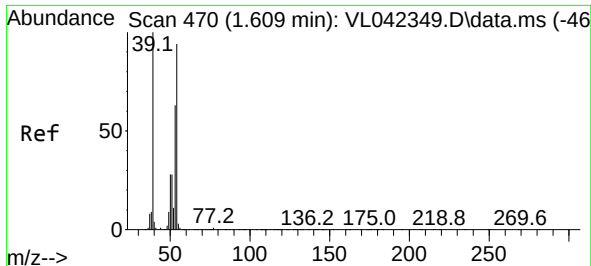
Tgt Ion: 45 Resp: 370679
Ion Ratio Lower Upper
45 100
46 37.1 21.9 87.7



#15
Acetone
Concen: 153.552 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion: 43 Resp: 3072130
Ion Ratio Lower Upper
43 100
58 58.0 22.4 33.6#

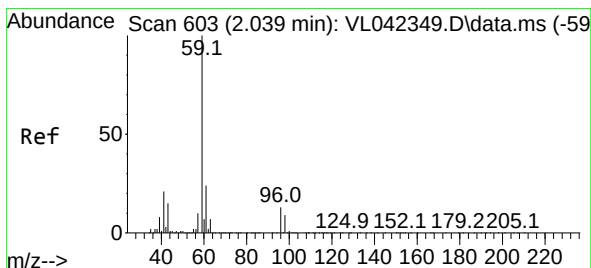
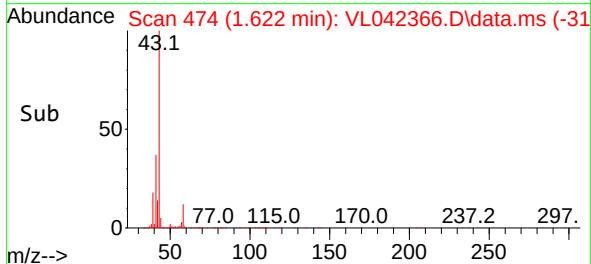
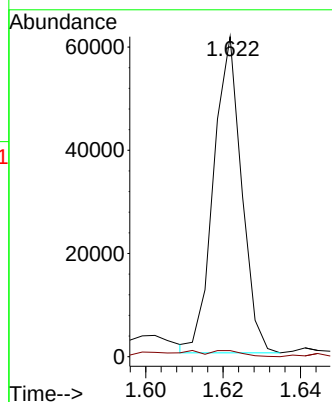
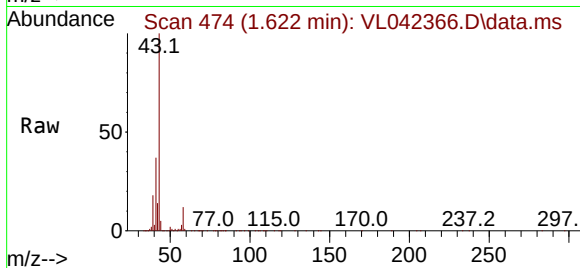




#16
1,3-Butadiene
Concen: 3.213 ppbv
RT: 1.622 min Scan# 41
Delta R.T. 0.013 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

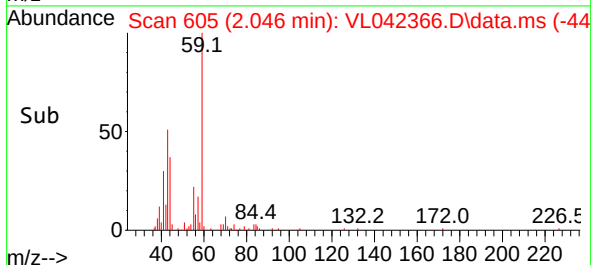
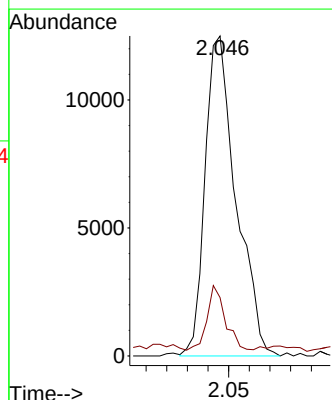
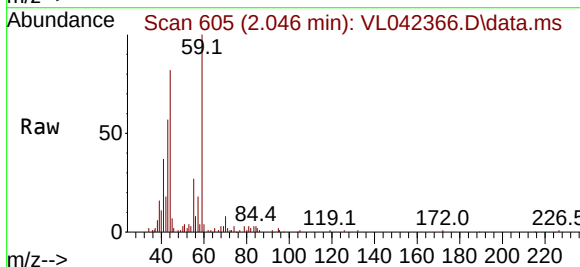
Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

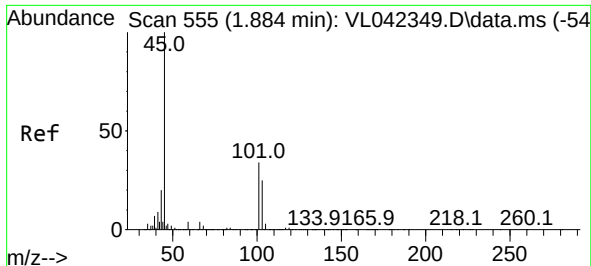
Tgt Ion: 39 Resp: 30747
Ion Ratio Lower Upper
39 100
54 5.9 64.9 97.3#



#17
tert-Butyl alcohol
Concen: 0.525 ppbv
RT: 2.046 min Scan# 605
Delta R.T. 0.007 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion: 59 Resp: 13005
Ion Ratio Lower Upper
59 100
57 25.8 8.7 13.1#

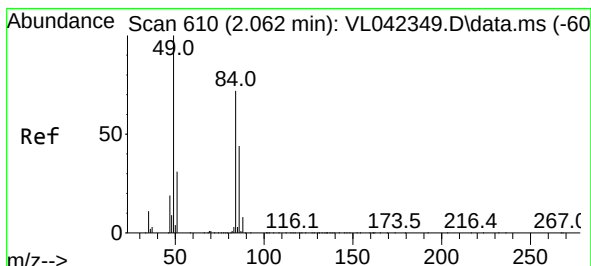
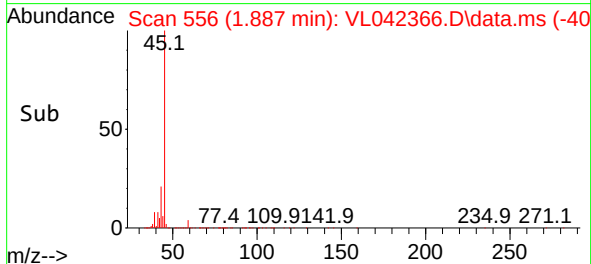
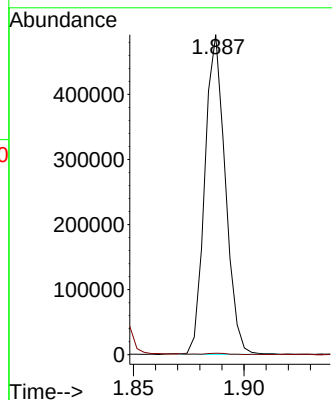
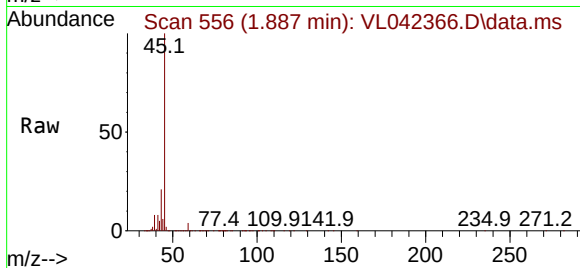




#19
Isopropyl Alcohol
Concen: 28.464 ppbv
RT: 1.887 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

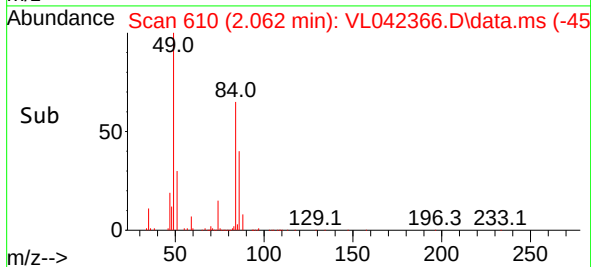
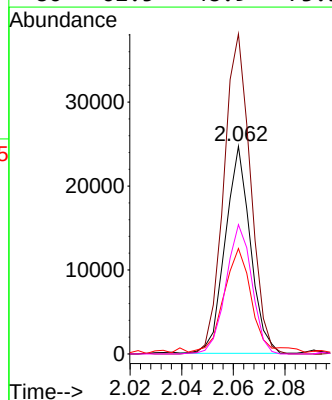
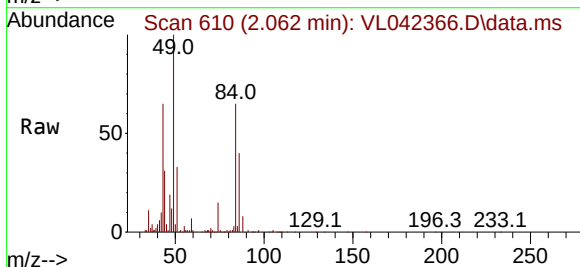
Instrument :
MSVOA_1
ClientSampleId :
IA-DUP-3-03312025

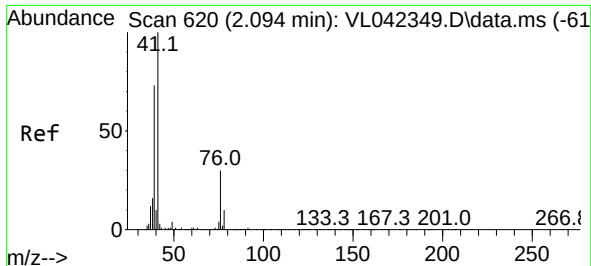
Tgt Ion: 45 Resp: 316355
Ion Ratio Lower Upper
45 100
58 0.0 34.5 51.7#



#20
Methylene Chloride
Concen: 2.130 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion: 84 Resp: 16692
Ion Ratio Lower Upper
84 100
49 154.6 111.6 167.4
51 48.0 35.1 52.7
86 62.5 48.9 73.3

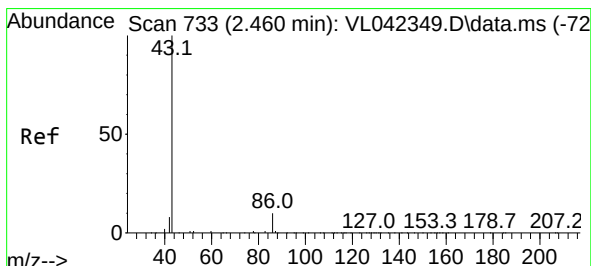
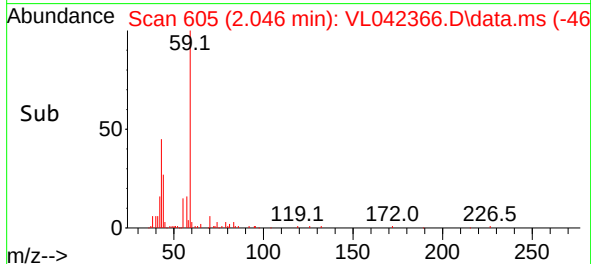
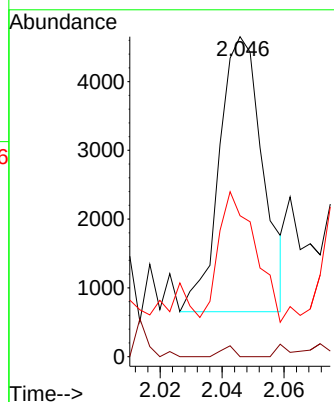
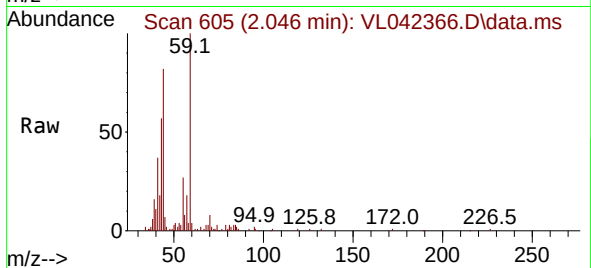




#21
 Allyl Chloride
 Concen: 0.283 ppbv
 RT: 2.046 min Scan# 60
 Delta R.T. -0.049 min
 Lab File: VL042366.D
 Acq: 17 Apr 2025 20:05

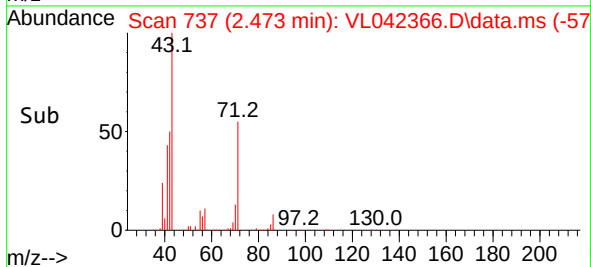
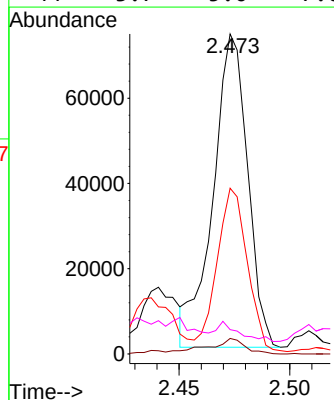
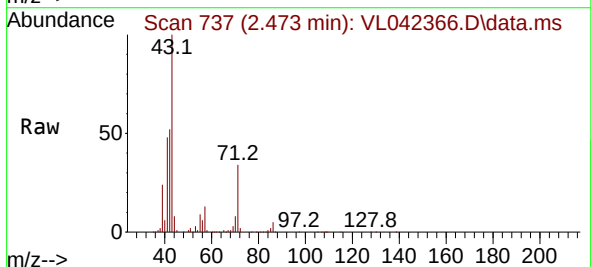
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-DUP-3-03312025

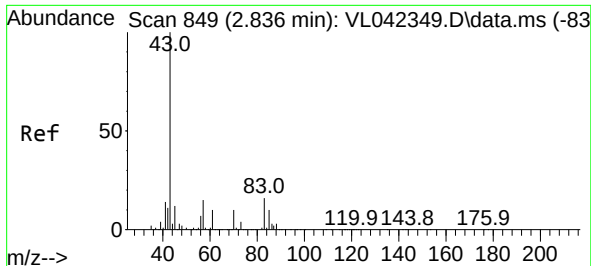
Tgt Ion: 41 Resp: 3913
 Ion Ratio Lower Upper
 41 100
 76 3.4 24.8 37.2#
 39 0.0 60.6 90.8#



#23
 Vinyl Acetate
 Concen: 9.833 ppbv
 RT: 2.473 min Scan# 737
 Delta R.T. 0.013 min
 Lab File: VL042366.D
 Acq: 17 Apr 2025 20:05

Tgt Ion: 43 Resp: 79634
 Ion Ratio Lower Upper
 43 100
 86 4.9 6.5 9.7#
 42 51.9 7.8 11.8#
 44 3.7 5.0 7.6#

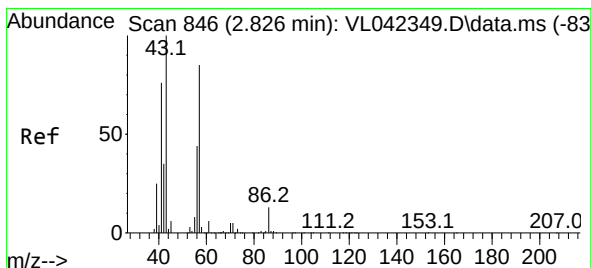
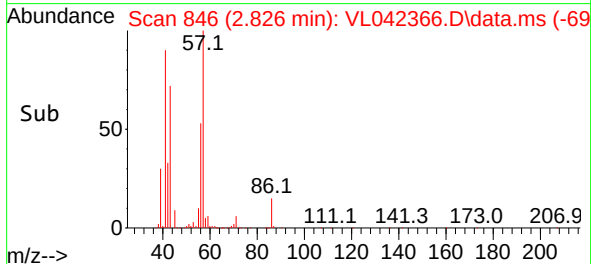
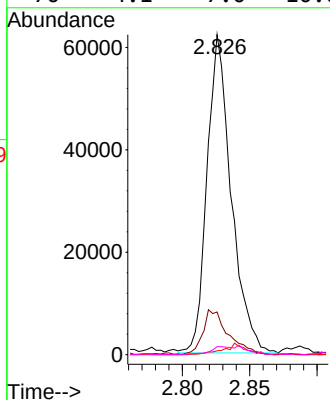
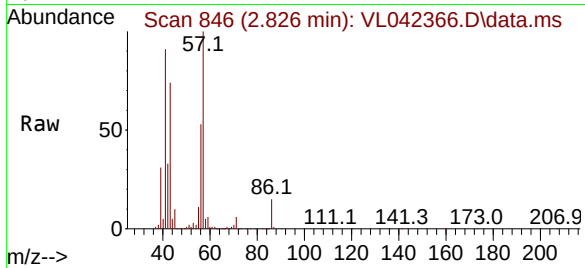




#25
Ethyl Acetate
Concen: 1.576 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.010 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

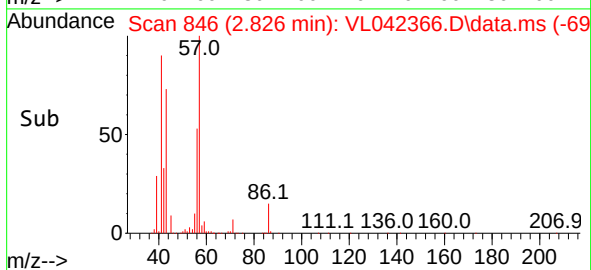
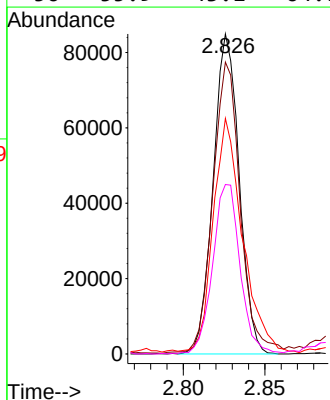
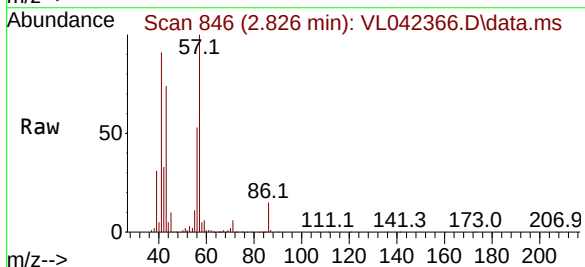
Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

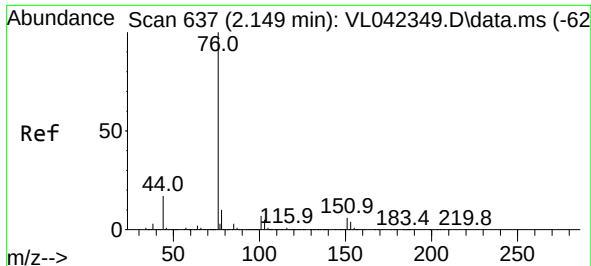
Tgt Ion: 43	Resp: 77759
Ion Ratio	Lower Upper
43 100	
45 14.9	8.3 12.5#
61 3.5	7.3 10.9#
70 4.1	7.0 10.6#



#26
Hexane
Concen: 4.717 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt	Ion: 57	Resp:	94163
Ion	Ratio	Lower	Upper
57	100		
41	95.7	77.9	116.9
43	83.0	208.4	312.6#
56	55.9	43.1	64.7





#27

Carbon Disulfide

Concen: 0.052 ppbv

RT: 2.153 min Scan# 61

Delta R.T. 0.003 min

Lab File: VL042366.D

Acq: 17 Apr 2025 20:05

Instrument :

MSVOA_L

ClientSampleId :

IA-DUP-3-03312025

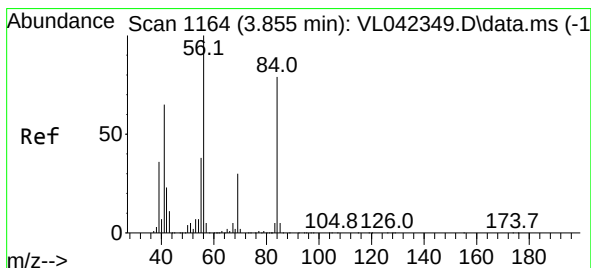
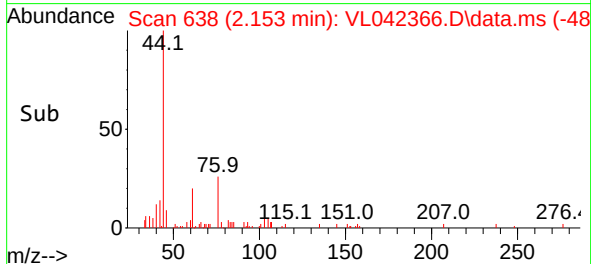
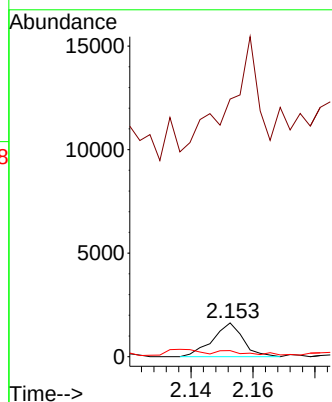
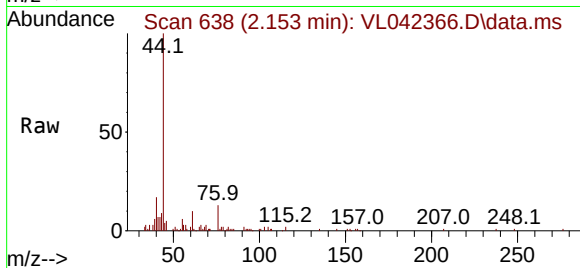
Tgt Ion: 76 Resp: 1109

Ion Ratio Lower Upper

76 100

44 0.0 15.5 23.3#

78 43.6 9.3 13.9#



#30

Cyclohexane

Concen: 1.955 ppbv

RT: 3.855 min Scan# 1164

Delta R.T. 0.000 min

Lab File: VL042366.D

Acq: 17 Apr 2025 20:05

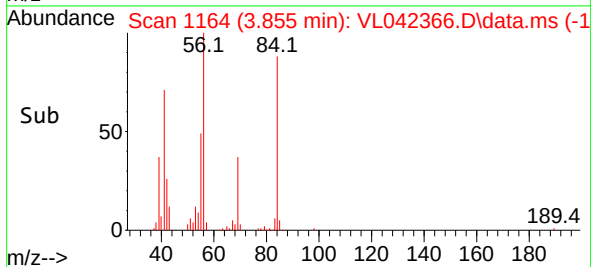
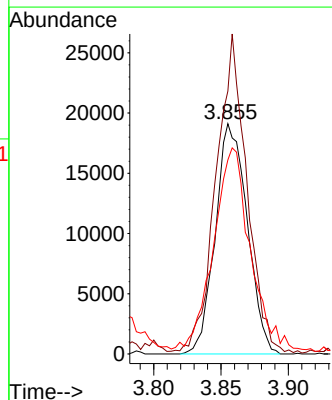
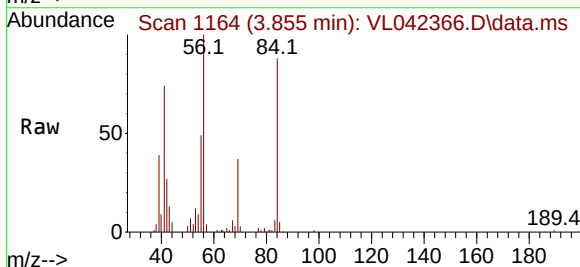
Tgt Ion: 84 Resp: 31546

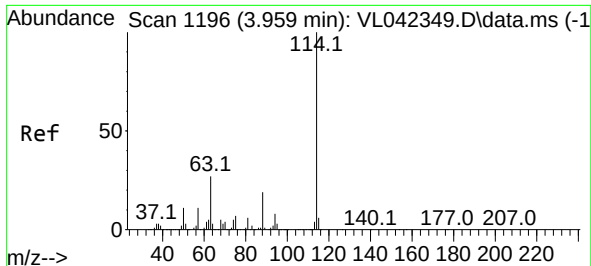
Ion Ratio Lower Upper

84 100

56 133.1 101.0 151.4

41 102.4 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: VL042366.D

Acq: 17 Apr 2025 20:05

Instrument :

MSVOA_1

ClientSampleId :

IA-DUP-3-03312025

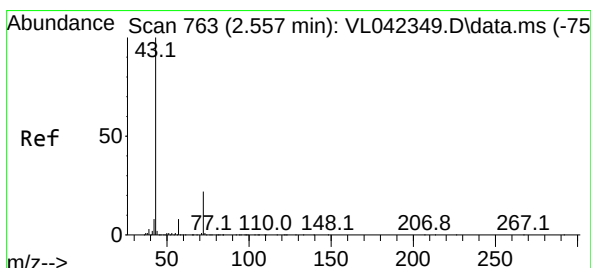
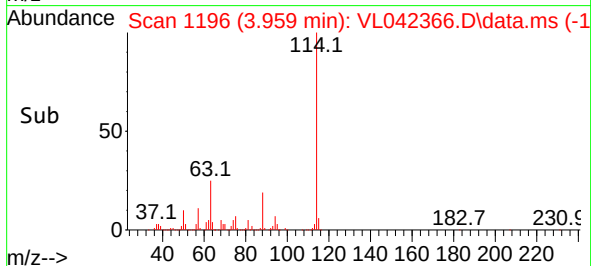
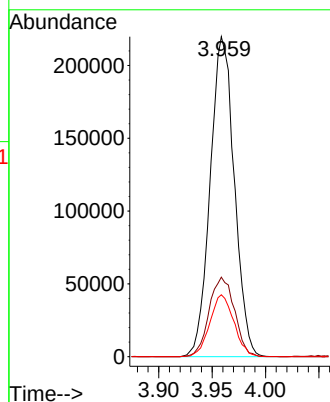
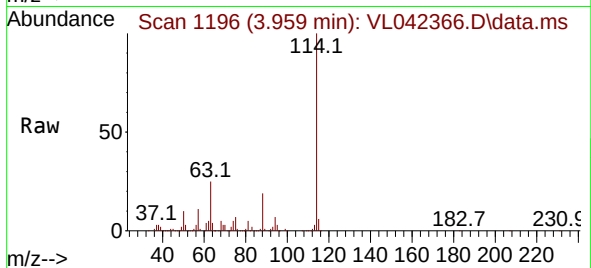
Tgt Ion:114 Resp: 344823

Ion Ratio Lower Upper

114 100

63 26.2 21.8 32.6

88 19.3 15.5 23.3



#34

2-Butanone

Concen: 1.118 ppbv

RT: 2.560 min Scan# 764

Delta R.T. 0.003 min

Lab File: VL042366.D

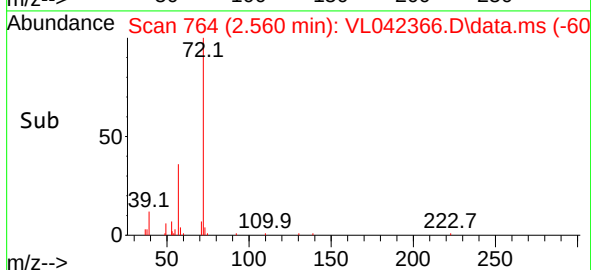
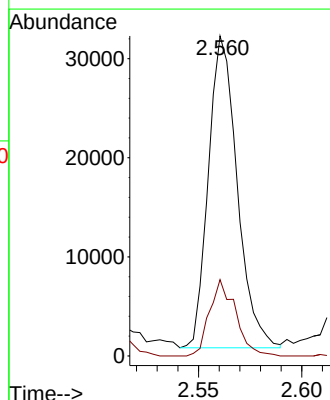
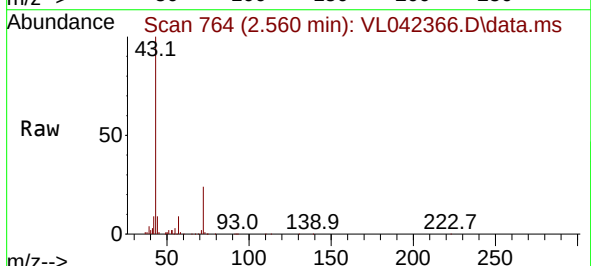
Acq: 17 Apr 2025 20:05

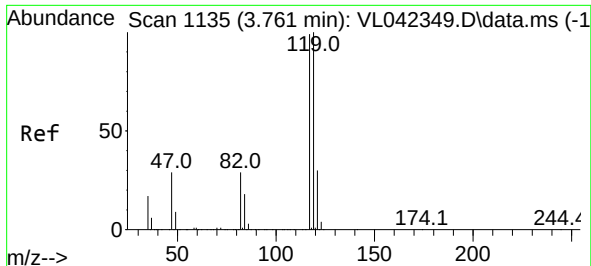
Tgt Ion: 43 Resp: 30497

Ion Ratio Lower Upper

43 100

72 22.3 18.2 27.2

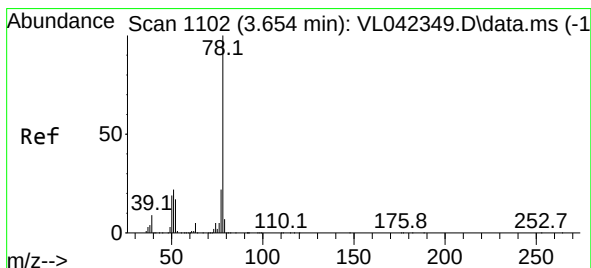
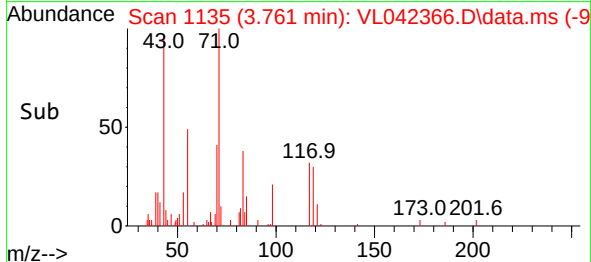
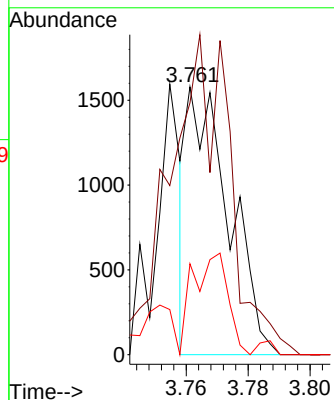
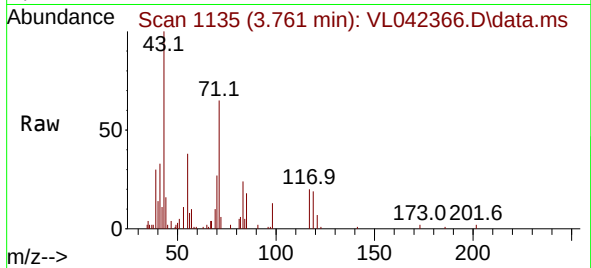




#35
Carbon Tetrachloride
Concen: 0.048 ppbv
RT: 3.761 min Scan# 1135
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

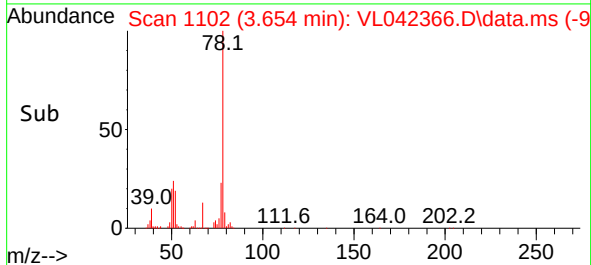
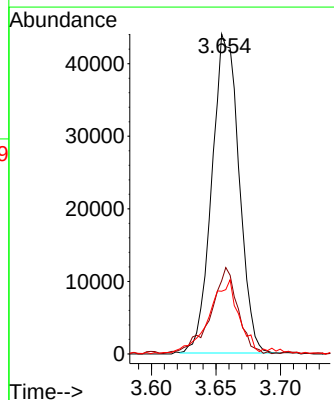
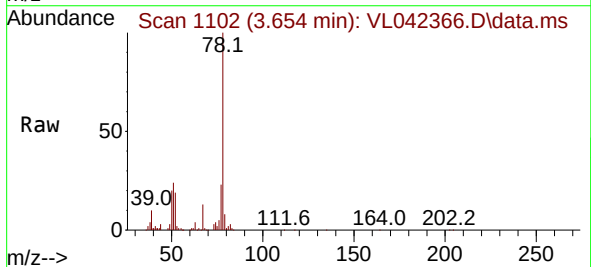
Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

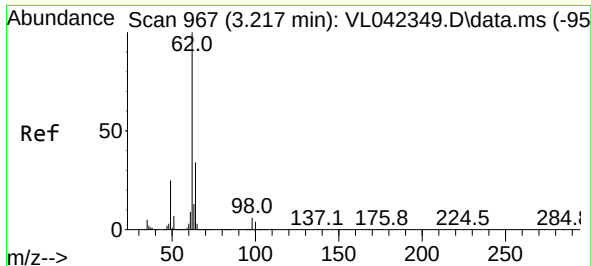
Tgt Ion:117 Resp: 1489
Ion Ratio Lower Upper
117 100
119 88.0 80.5 120.7
121 33.9 24.2 36.2



#36
Benzene
Concen: 1.727 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion: 78 Resp: 64219
Ion Ratio Lower Upper
78 100
77 22.7 17.4 26.0
50 18.0 15.5 23.3





#37

1,2-Dichloroethane

Concen: 0.127 ppbv

RT: 3.221 min Scan# 9

Delta R.T. 0.003 min

Lab File: VL042366.D

Acq: 17 Apr 2025 20:05

Instrument :

MSVOA_L

ClientSampleId :

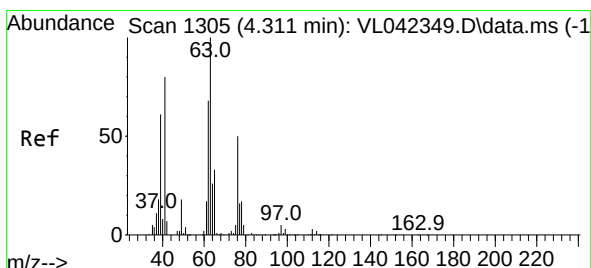
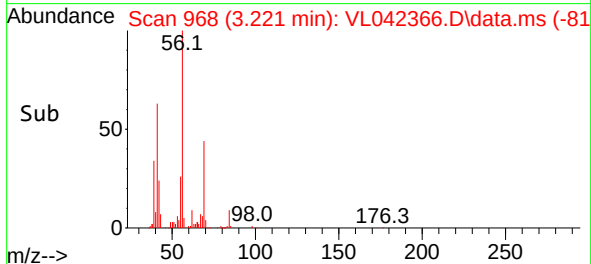
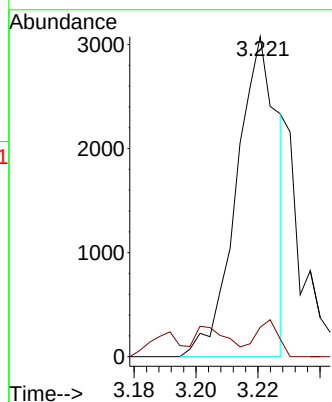
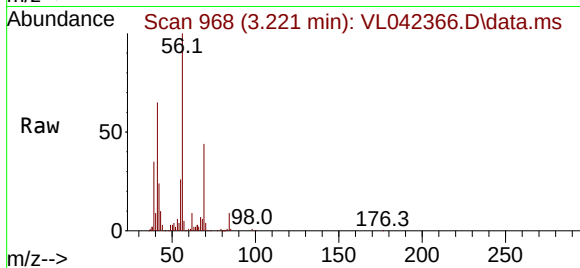
IA-DUP-3-03312025

Tgt Ion: 62 Resp: 2839

Ion Ratio Lower Upper

62 100

98 19.3 5.1 7.7#



#39

1,2-Dichloropropane

Concen: 6.513 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. -0.353 min

Lab File: VL042366.D

Acq: 17 Apr 2025 20:05

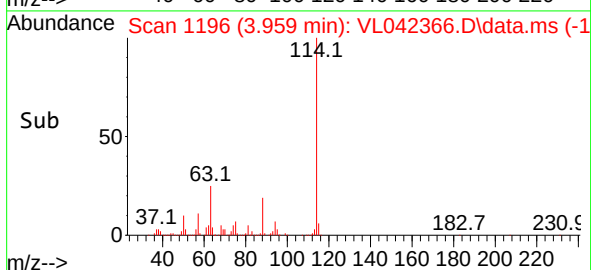
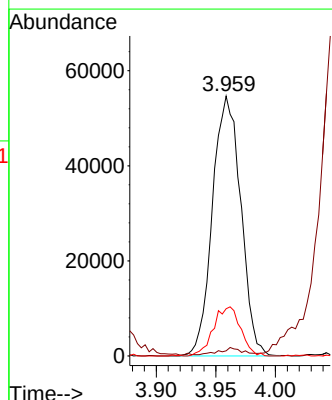
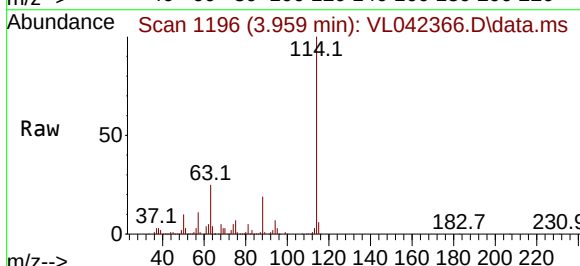
Tgt Ion: 63 Resp: 90263

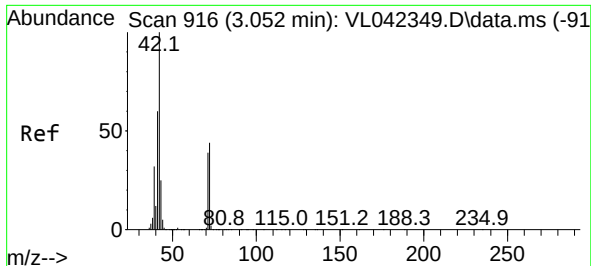
Ion Ratio Lower Upper

63 100

41 1.6 64.2 96.2#

62 18.1 54.3 81.5#

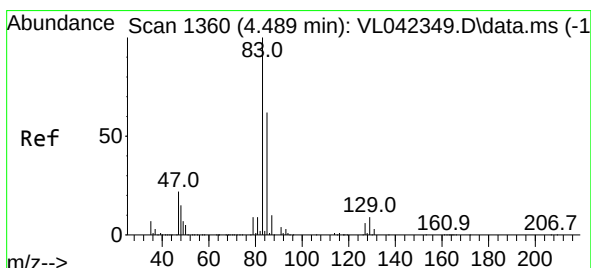
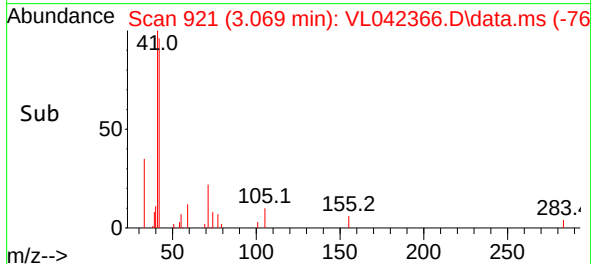
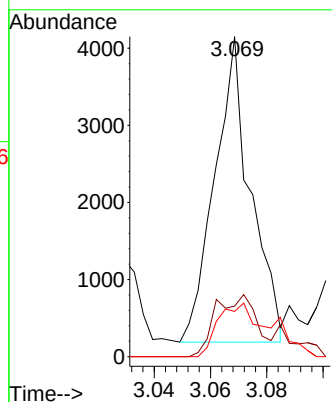
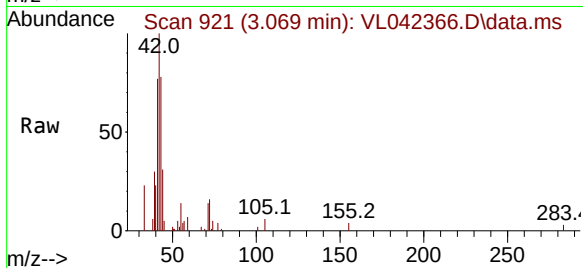




#41
Tetrahydrofuran
Concen: 0.220 ppbv
RT: 3.069 min Scan# 916
Delta R.T. 0.016 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

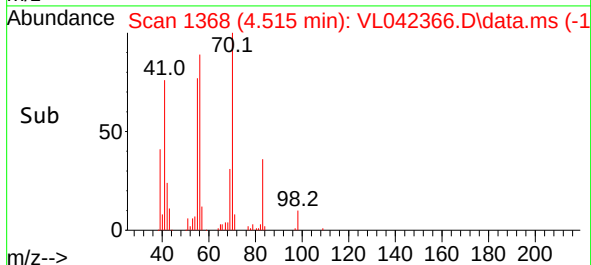
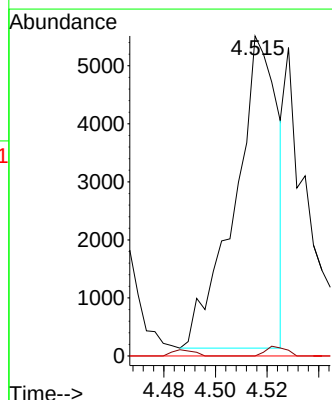
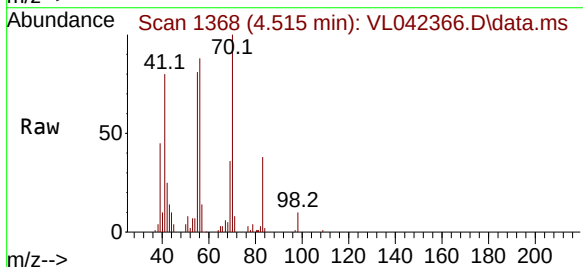
Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

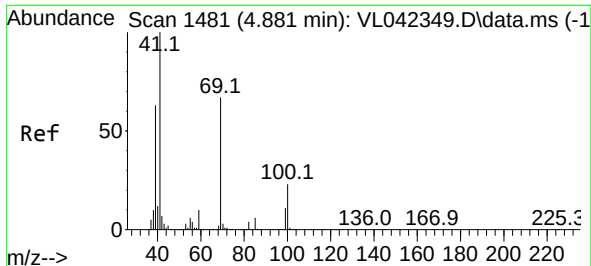
Tgt Ion:	42	Resp:	3495
Ion Ratio	Lower	Upper	
42	100		
72	29.4	32.3	48.5#
71	25.7	31.4	47.2#



#42
Bromodichloromethane
Concen: 0.200 ppbv
RT: 4.515 min Scan# 1368
Delta R.T. 0.026 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion:	83	Resp:	6225
Ion Ratio	Lower	Upper	
83	100		
85	0.0	49.7	74.5#
127	0.0	5.1	7.7#

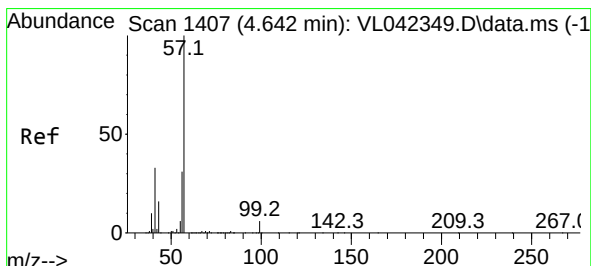
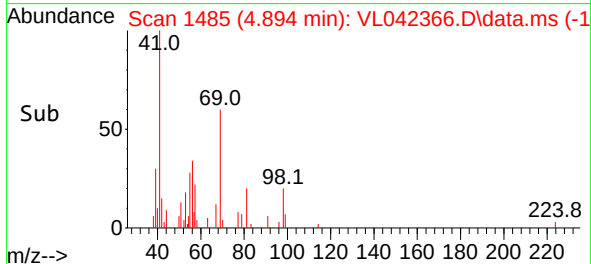
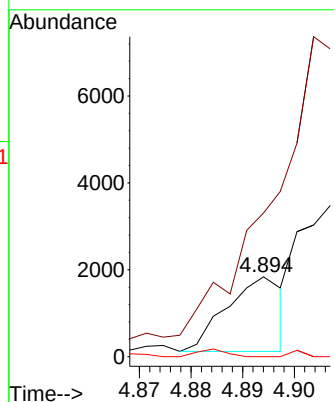
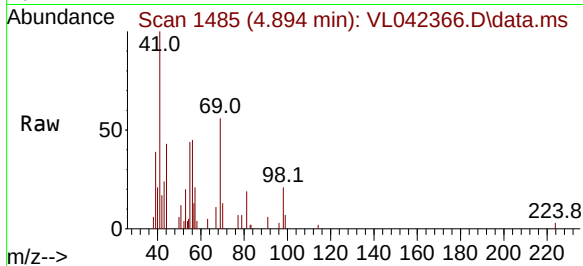




#43
Methyl Methacrylate
Concen: 0.077 ppbv
RT: 4.894 min Scan# 1485
Delta R.T. 0.013 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

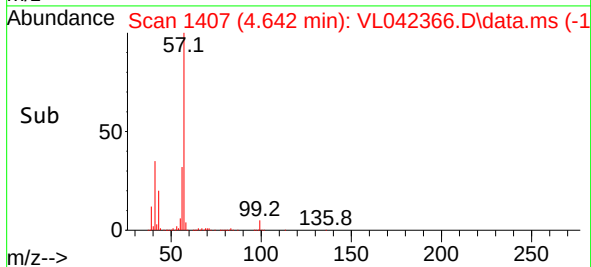
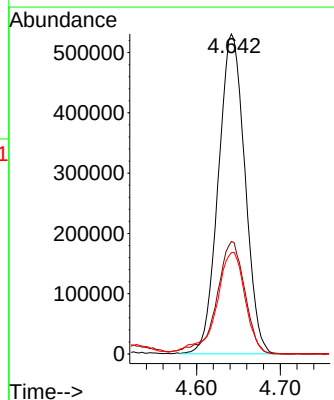
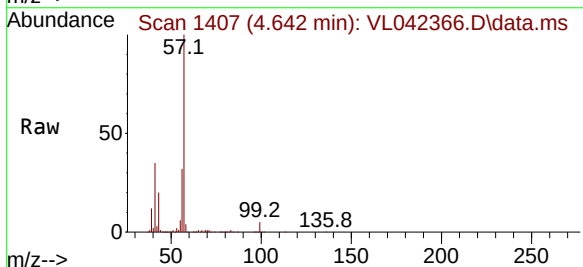
Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

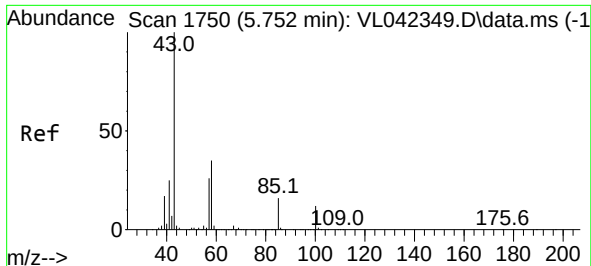
Tgt Ion: 69 Resp: 1290
Ion Ratio Lower Upper
69 100
41 0.0 118.6 177.8#
100 0.0 28.2 42.2#



#44
2,2,4-Trimethylpentane
Concen: 18.168 ppbv
RT: 4.642 min Scan# 1407
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion: 57 Resp: 1167050
Ion Ratio Lower Upper
57 100
41 37.2 27.2 40.8
56 34.9 25.7 38.5





#50

4-Methyl-2-Pentanone

Concen: 0.128 ppbv

RT: 5.778 min Scan# 1

Delta R.T. 0.026 min

Lab File: VL042366.D

Acq: 17 Apr 2025 20:05

Instrument :

MSVOA_L

ClientSampleId :

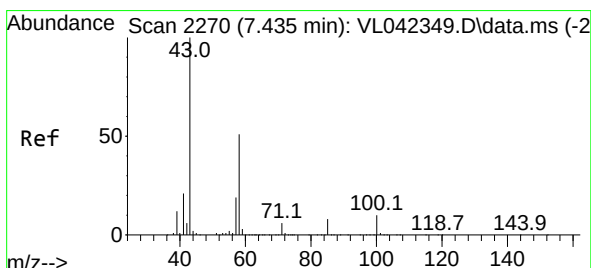
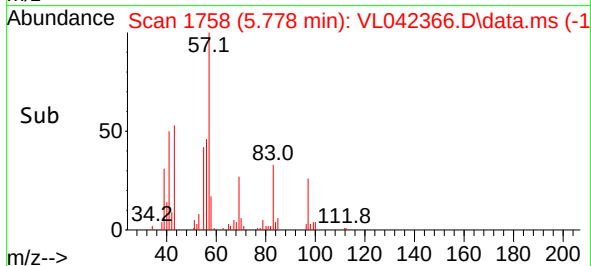
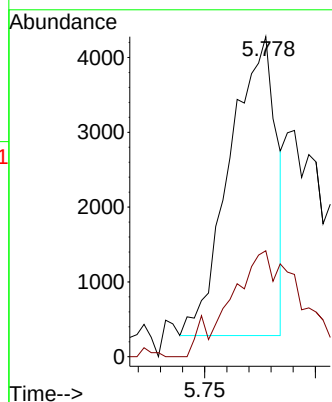
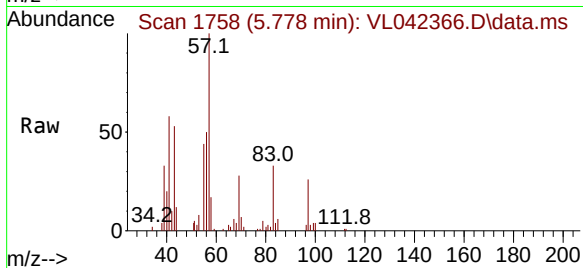
IA-DUP-3-03312025

Tgt Ion: 43 Resp: 5813

Ion Ratio Lower Upper

43 100

58 58.9 28.6 43.0#



#51

2-Hexanone

Concen: 2.057 ppbv

RT: 7.419 min Scan# 2265

Delta R.T. -0.016 min

Lab File: VL042366.D

Acq: 17 Apr 2025 20:05

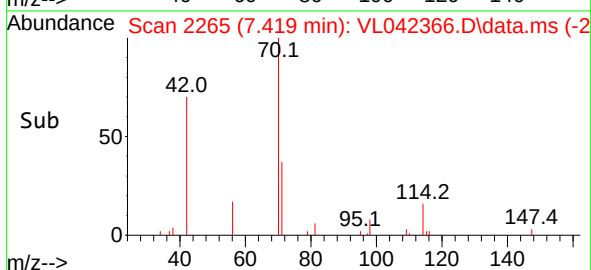
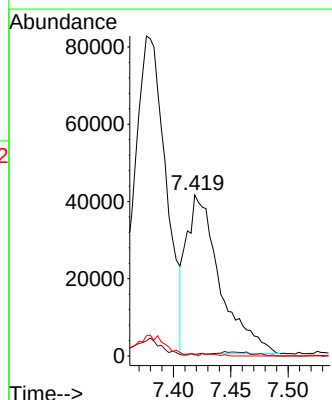
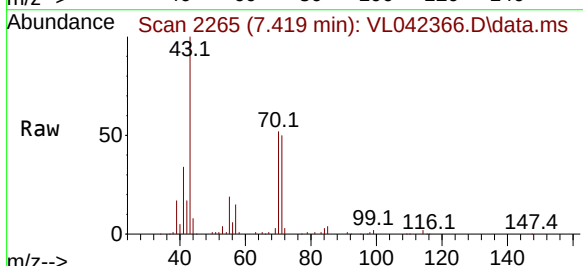
Tgt Ion: 43 Resp: 83604

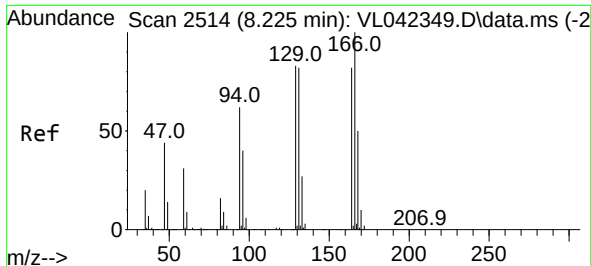
Ion Ratio Lower Upper

43 100

58 3.4 40.2 60.4#

98 0.6 0.1 0.1#

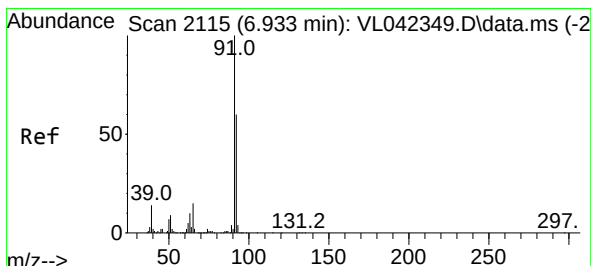
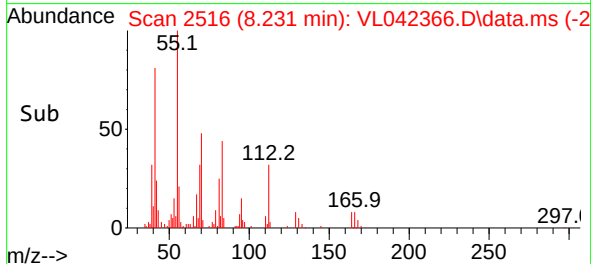
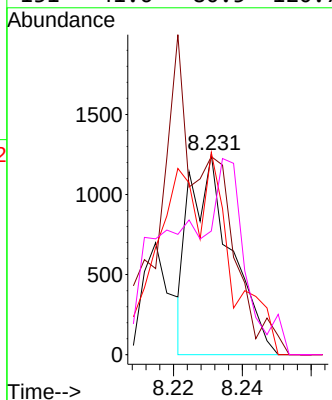
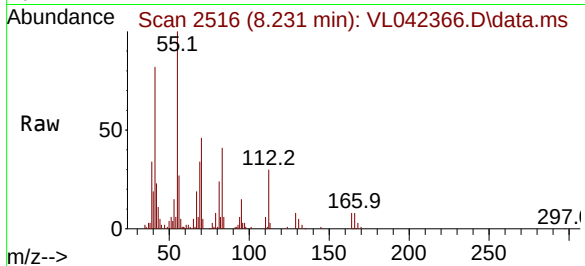




#52
Tetrachloroethene
Concen: 0.073 ppbv
RT: 8.231 min Scan# 2116
Delta R.T. 0.006 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

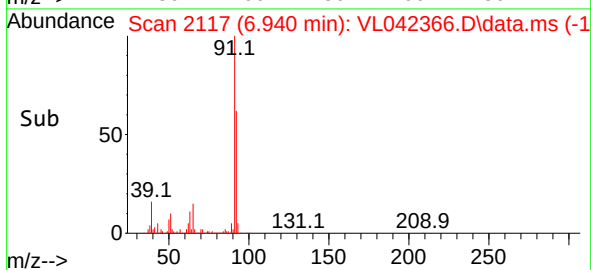
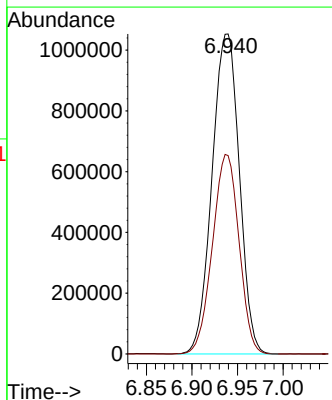
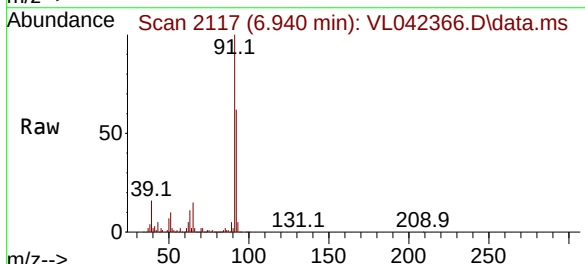
Instrument :
MSVOA_1
ClientSampleId :
IA-DUP-3-03312025

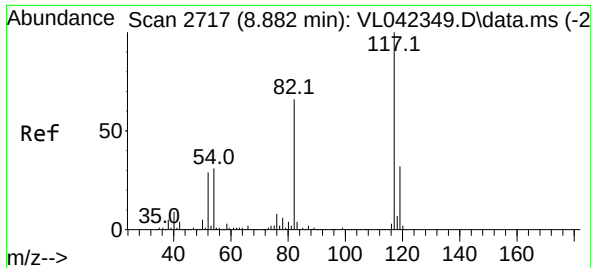
Tgt Ion:164 Resp: 1048
Ion Ratio Lower Upper
164 100
166 94.3 98.2 147.2#
129 101.0 81.8 122.8
131 41.6 80.5 120.7#



#53
Toluene
Concen: 49.165 ppbv
RT: 6.940 min Scan# 2117
Delta R.T. 0.006 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion: 91 Resp: 2194341
Ion Ratio Lower Upper
91 100
92 60.7 48.2 72.4

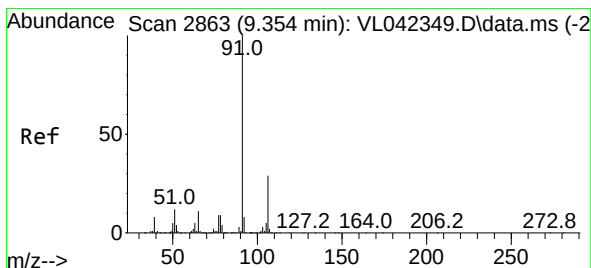
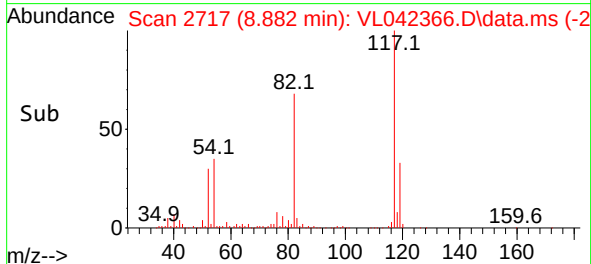
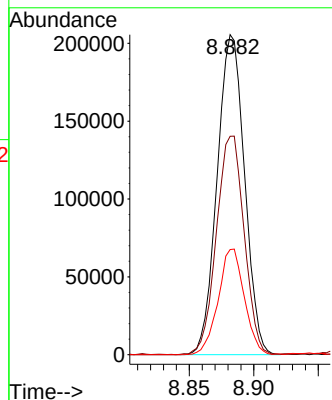
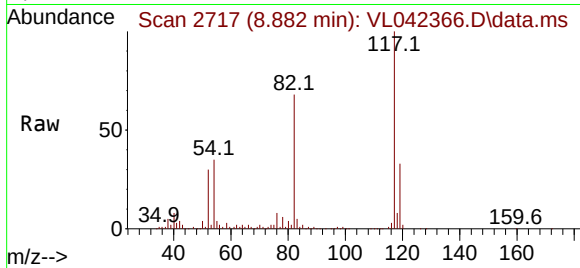




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

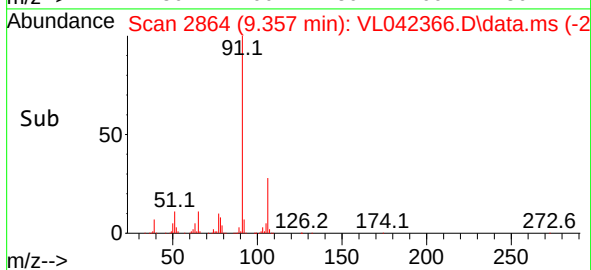
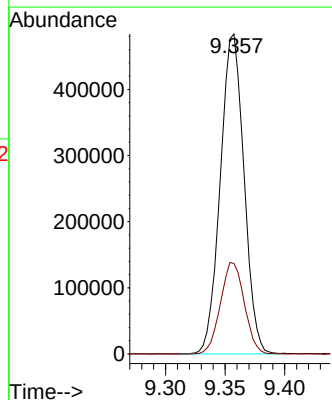
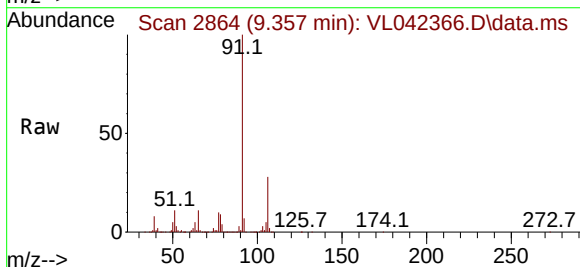
Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

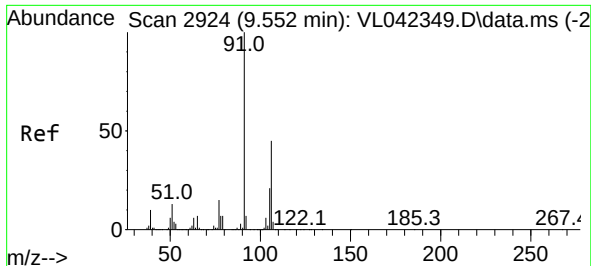
Tgt Ion:117 Resp: 303405
Ion Ratio Lower Upper
117 100
82 69.2 57.8 86.6
119 31.6 25.2 37.8



#58
Ethyl Benzene
Concen: 11.113 ppbv
RT: 9.357 min Scan# 2864
Delta R.T. 0.003 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion: 91 Resp: 668072
Ion Ratio Lower Upper
91 100
106 28.3 23.0 34.4





#59

m/p-Xylene

Concen: 38.435 ppbv

RT: 9.535 min Scan# 2919

Delta R.T. -0.016 min

Lab File: VL042366.D

Acq: 17 Apr 2025 20:05

Instrument :

MSVOA_L

ClientSampleId :

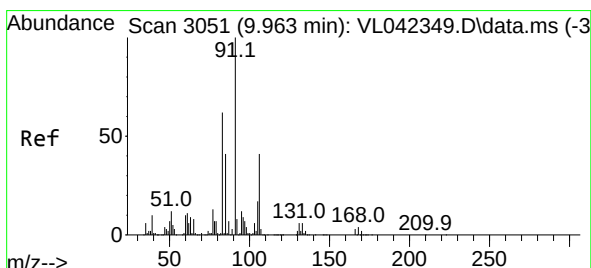
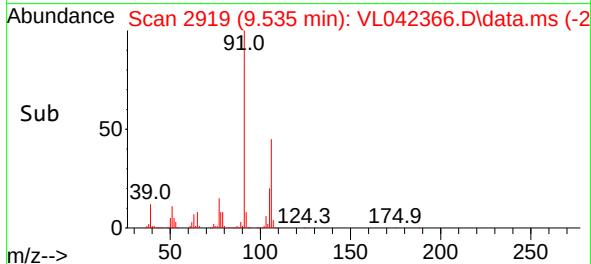
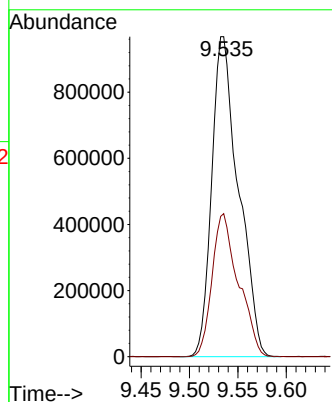
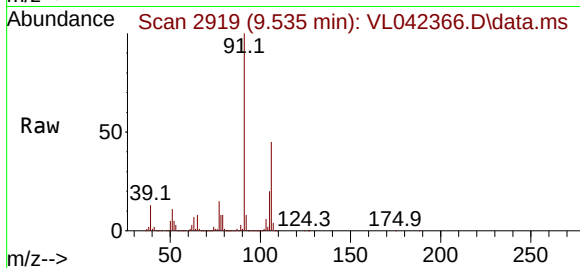
IA-DUP-3-03312025

Tgt Ion: 91 Resp: 1861243

Ion Ratio Lower Upper

91 100

106 44.0 35.4 53.2



#60

o-Xylene

Concen: 15.456 ppbv

RT: 9.966 min Scan# 3052

Delta R.T. 0.003 min

Lab File: VL042366.D

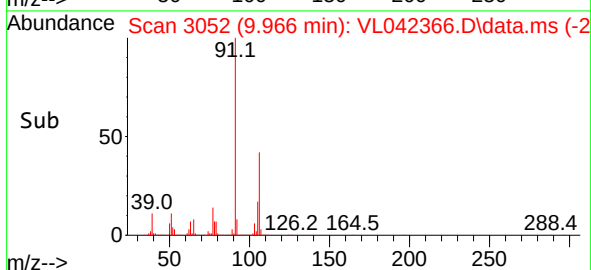
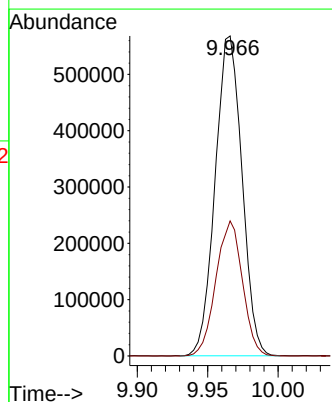
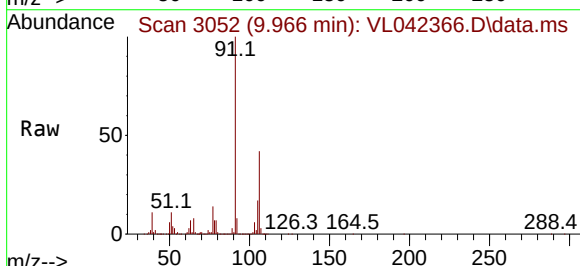
Acq: 17 Apr 2025 20:05

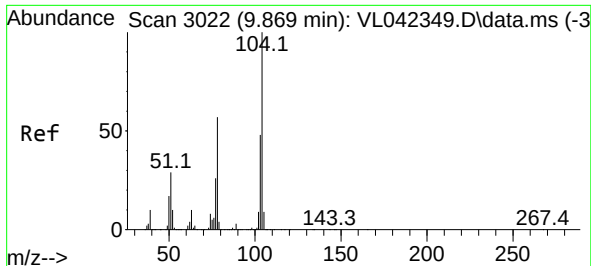
Tgt Ion: 91 Resp: 753743

Ion Ratio Lower Upper

91 100

106 41.7 21.1 63.4





#61

Styrene

Concen: 0.351 ppbv

RT: 9.872 min Scan# 3022

Delta R.T. 0.003 min

Lab File: VL042366.D

Acq: 17 Apr 2025 20:05

Instrument :

MSVOA_L

ClientSampleId :

IA-DUP-3-03312025

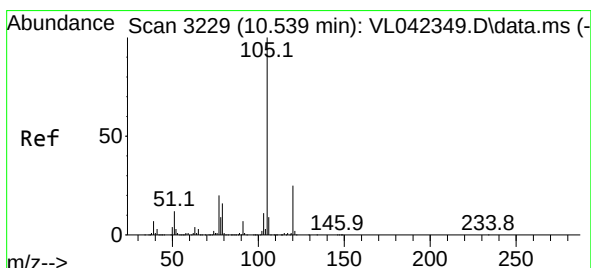
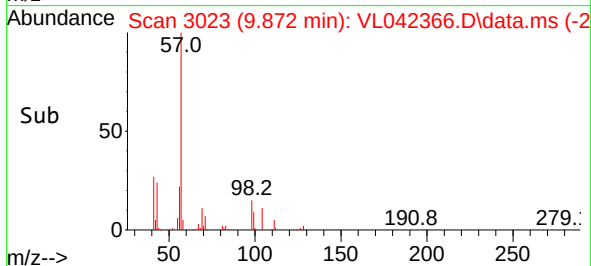
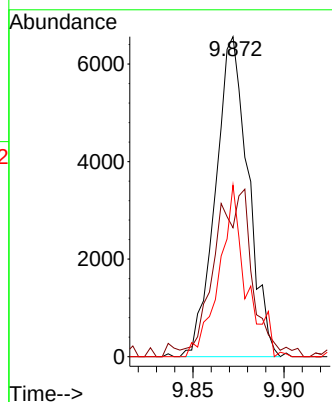
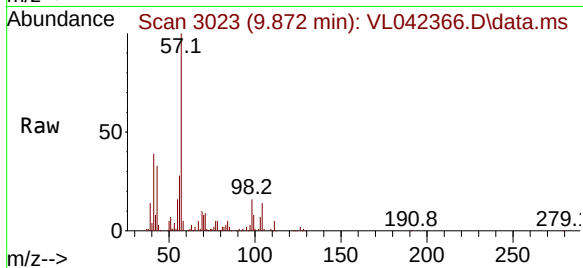
Tgt Ion:104 Resp: 8179

Ion Ratio Lower Upper

104 100

78 64.5 44.6 66.8

103 44.3 37.4 56.0



#62

Isopropylbenzene

Concen: 0.987 ppbv

RT: 10.539 min Scan# 3229

Delta R.T. 0.000 min

Lab File: VL042366.D

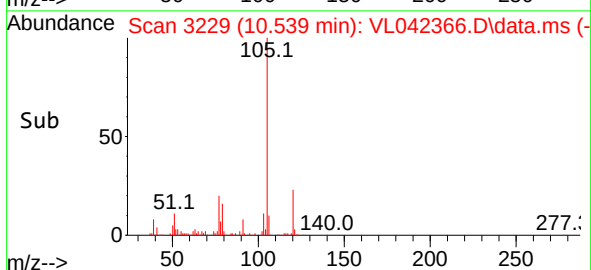
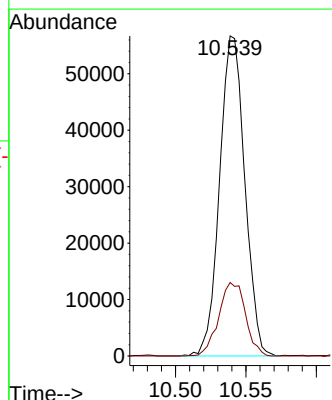
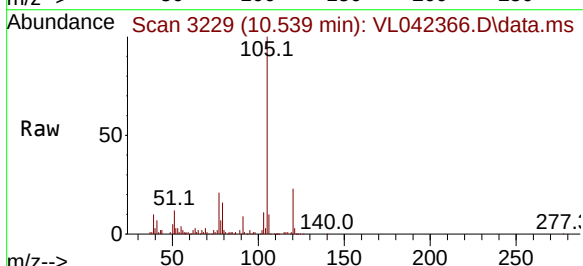
Acq: 17 Apr 2025 20:05

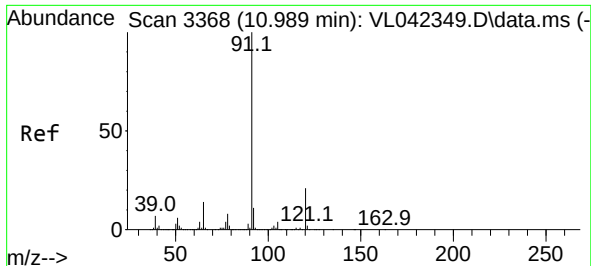
Tgt Ion:105 Resp: 70653

Ion Ratio Lower Upper

105 100

120 24.4 19.8 29.8

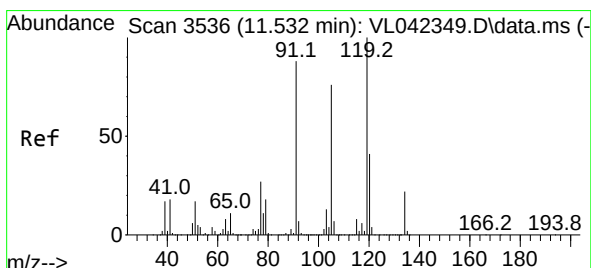
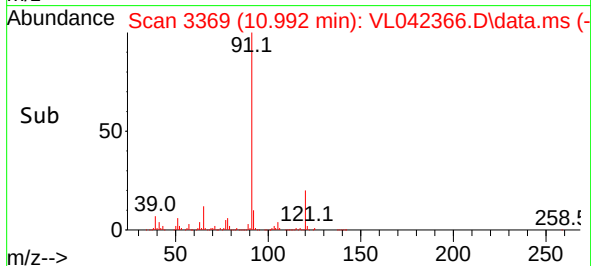
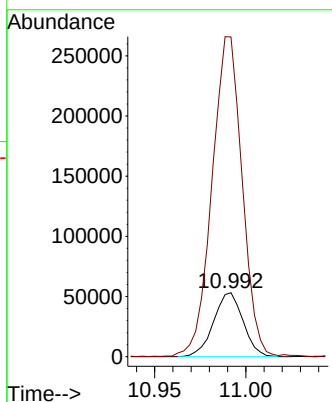
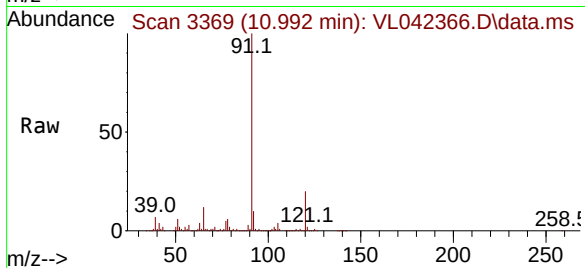




#64
n-propylbenzene
Concen: 3.324 ppbv
RT: 10.992 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

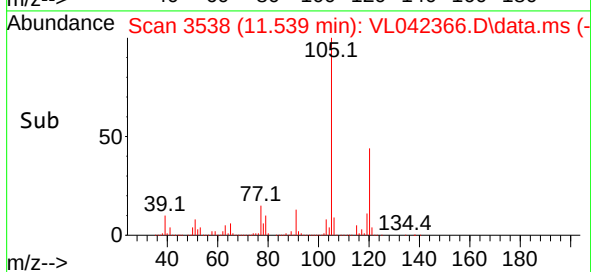
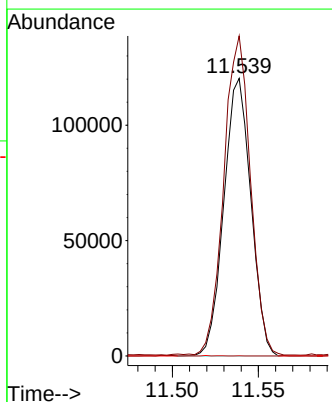
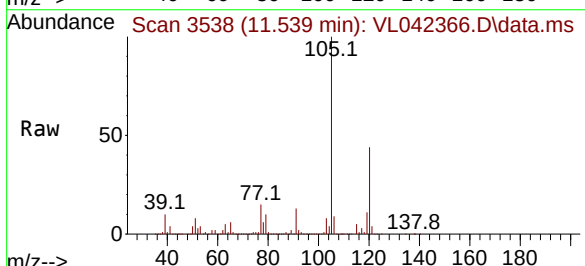
Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

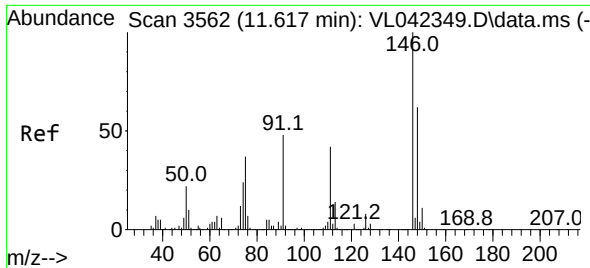
Tgt Ion:120 Resp: 59824
Ion Ratio Lower Upper
120 100
91 511.6 392.4 588.6



#65
tert-Butylbenzene
Concen: 1.999 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.006 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion:119 Resp: 131539
Ion Ratio Lower Upper
119 100
91 114.4 74.6 111.8#
134 0.0 18.8 28.2#

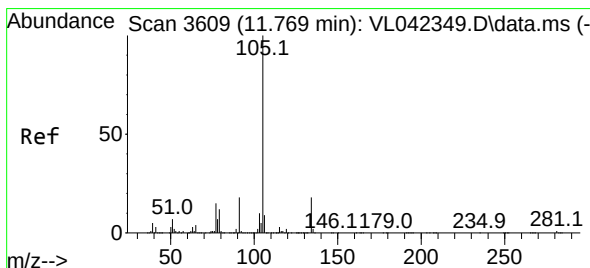
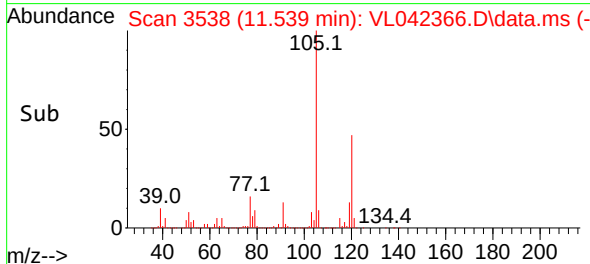
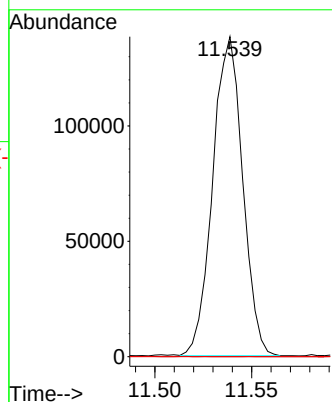
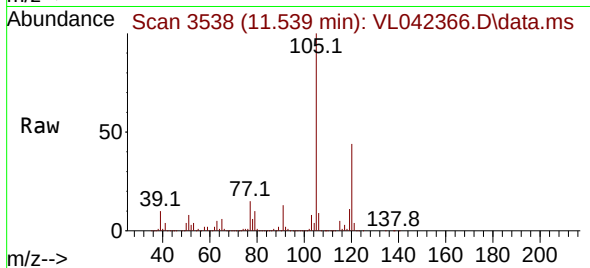




#66
Benzyl Chloride
Concen: 20.553 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. -0.078 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

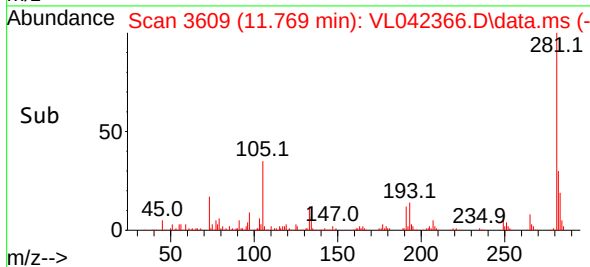
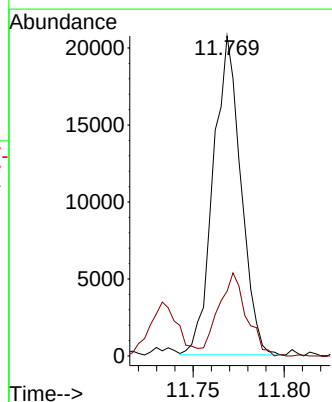
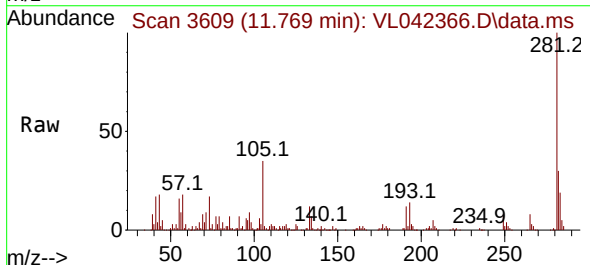
Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

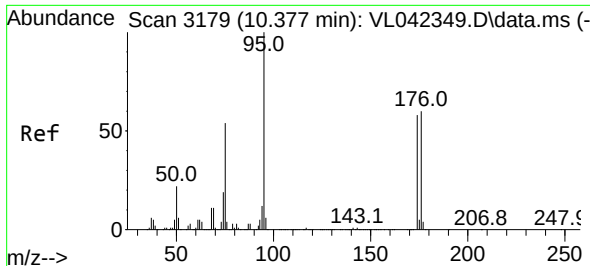
Tgt Ion: 91 Resp: 148615
Ion Ratio Lower Upper
91 100
126 0.1 11.8 17.6#
128 0.0 4.5 6.7#



#67
sec-Butylbenzene
Concen: 0.239 ppbv
RT: 11.769 min Scan# 3609
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion: 105 Resp: 21870
Ion Ratio Lower Upper
105 100
134 26.0 14.6 21.8#

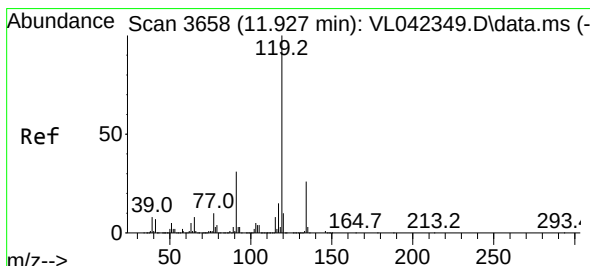
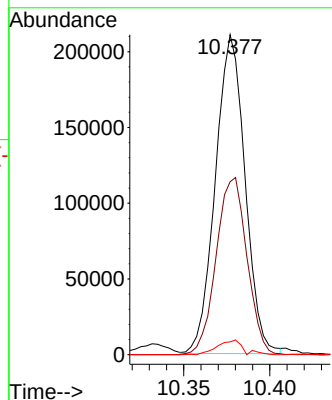
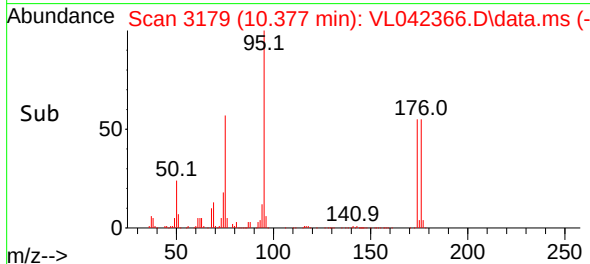
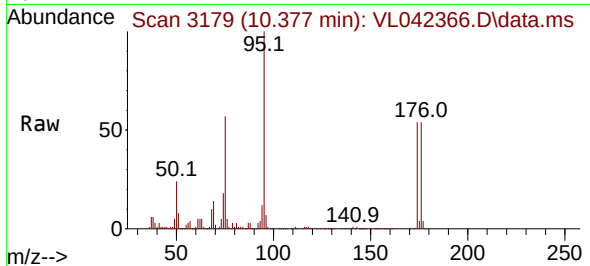




#68
1-Bromo-4-Fluorobenzene
Concen: 10.136 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

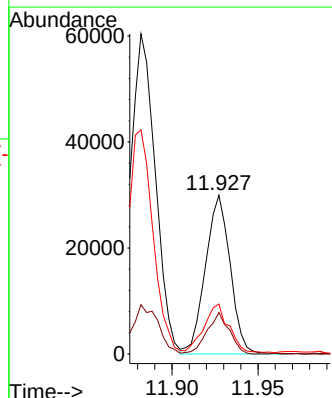
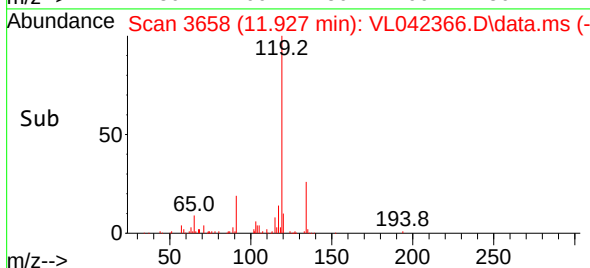
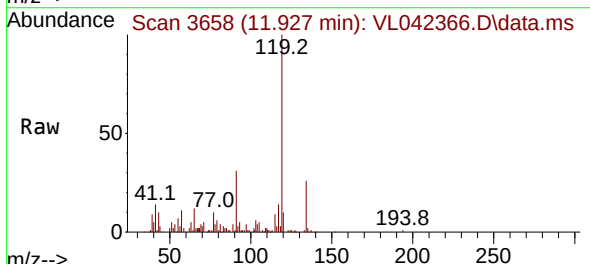
Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

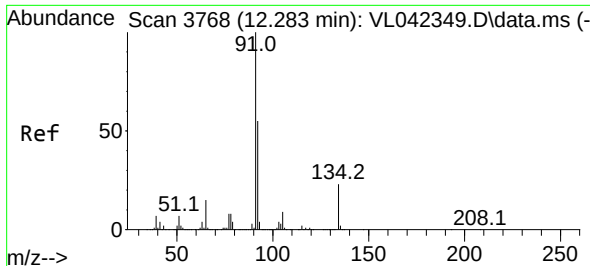
Tgt Ion: 95 Resp: 252701
Ion Ratio Lower Upper
95 100
174 57.6 48.5 72.7
175 4.0 3.7 5.5



#69
p-Isopropyltoluene
Concen: 0.377 ppbv
RT: 11.927 min Scan# 3658
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion: 119 Resp: 29958
Ion Ratio Lower Upper
119 100
134 23.7 20.0 30.0
91 29.2 24.4 36.6

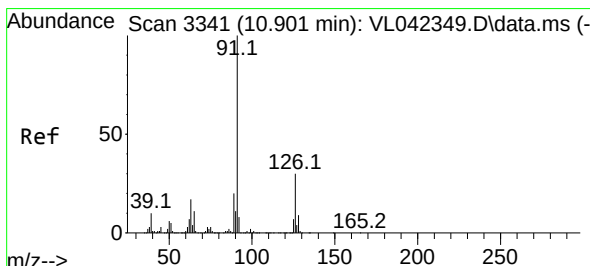
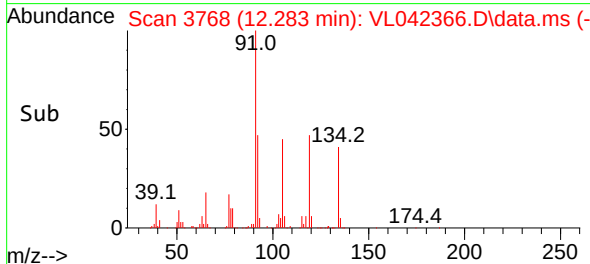
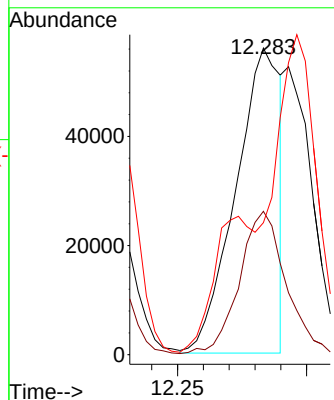
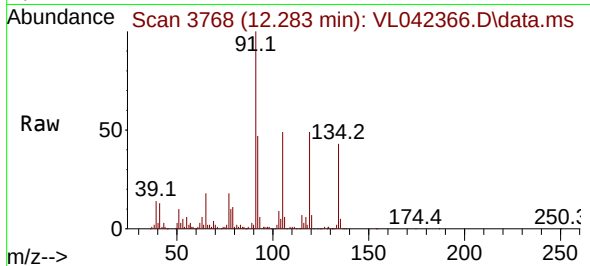




#70
n-Butylbenzene
Concen: 0.812 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

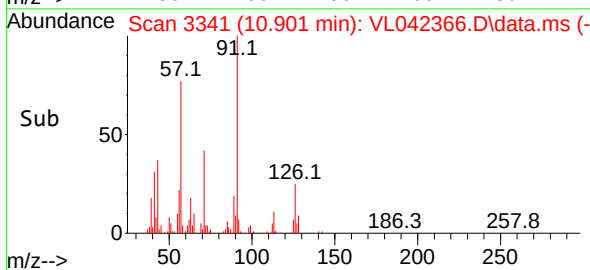
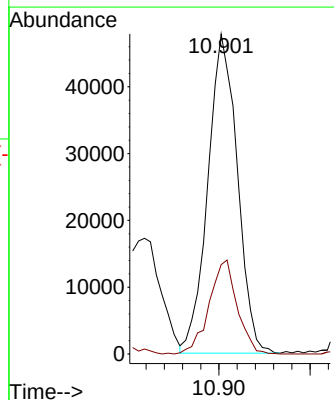
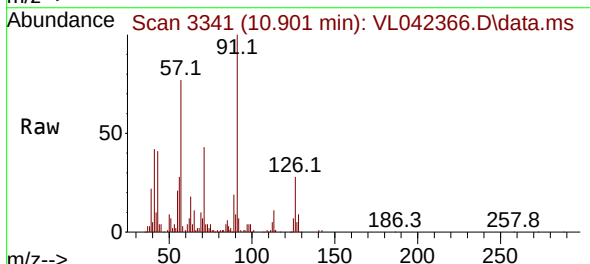
Instrument :
MSVOA_1
ClientSampleId :
IA-DUP-3-03312025

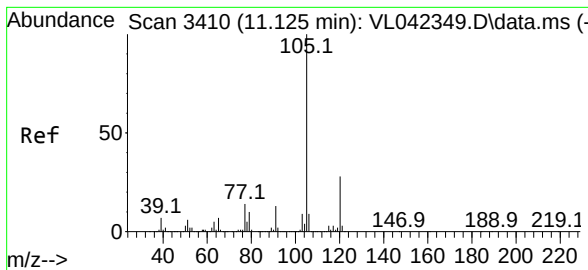
Tgt Ion: 91 Resp: 67288
Ion Ratio Lower Upper
91 100
92 50.3 44.2 66.4
134 0.0 18.2 27.4#



#71
2-Chlorotoluene
Concen: 0.958 ppbv
RT: 10.901 min Scan# 3341
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion: 91 Resp: 53769
Ion Ratio Lower Upper
91 100
126 28.0 11.4 45.4

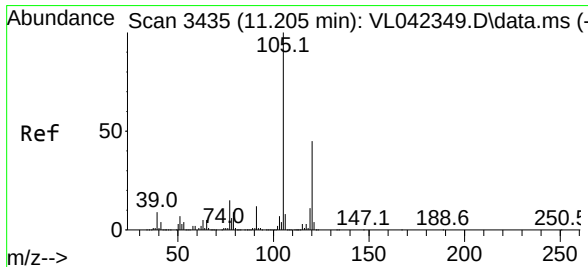
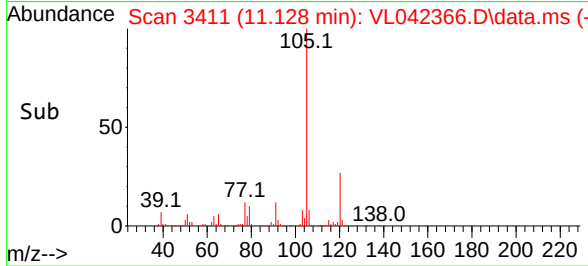
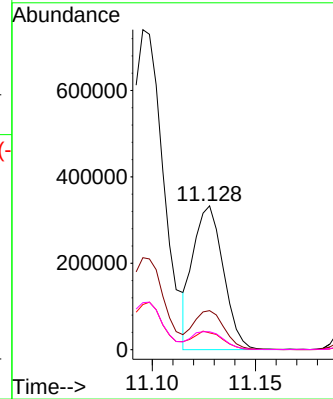
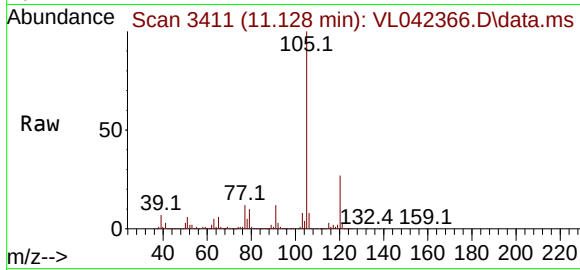




#72
4-Ethyltoluene
Concen: 5.685 ppbv
RT: 11.128 min Scan# 3410
Delta R.T. 0.003 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

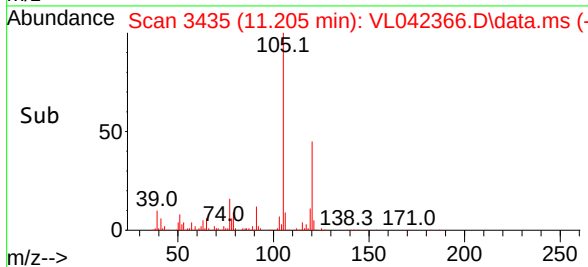
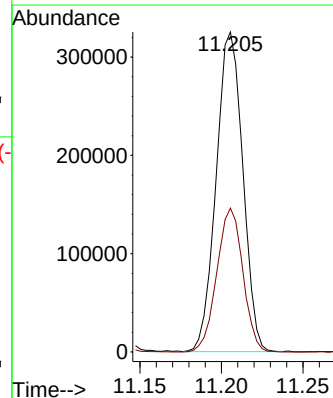
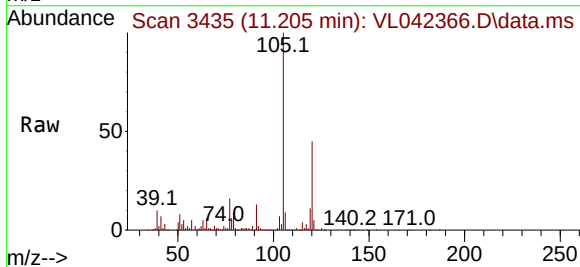
Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025

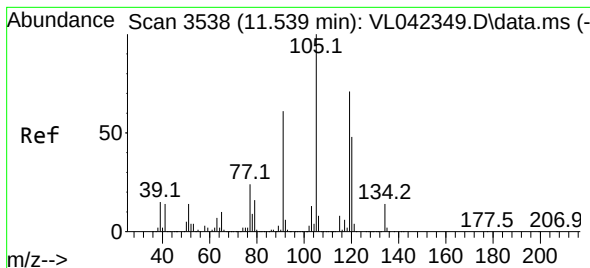
Tgt Ion:105 Resp: 338919
Ion Ratio Lower Upper
105 100
120 0.0 23.2 34.8#
91 0.0 10.4 15.6#
77 0.0 11.3 16.9#



#73
1,3,5-Trimethylbenzene
Concen: 7.008 ppbv
RT: 11.205 min Scan# 3435
Delta R.T. 0.000 min
Lab File: VL042366.D
Acq: 17 Apr 2025 20:05

Tgt Ion:105 Resp: 368859
Ion Ratio Lower Upper
105 100
120 45.0 35.6 53.4





#74

1,2,4-Trimethylbenzene

Concen: 19.268 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. 0.000 min

Lab File: VL042366.D

Acq: 17 Apr 2025 20:05

Instrument :

MSVOA_1

ClientSampleId :

IA-DUP-3-03312025

Tgt Ion:105 Resp: 1184512

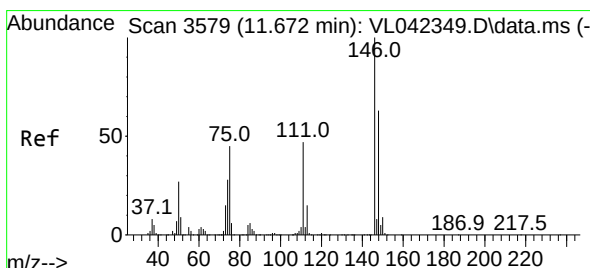
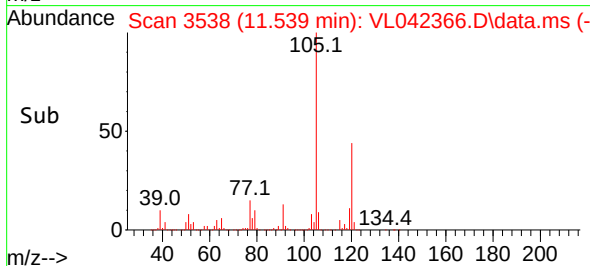
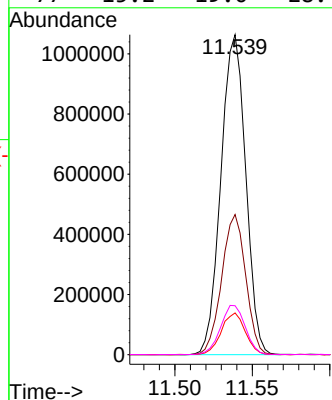
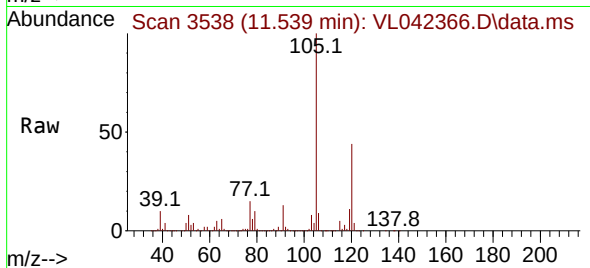
Ion Ratio Lower Upper

105 100

120 43.8 38.1 57.1

91 13.0 48.8 73.2#

77 15.2 19.0 28.4#



#76

1,4-Dichlorobenzene

Concen: 0.257 ppbv

RT: 11.672 min Scan# 3579

Delta R.T. 0.000 min

Lab File: VL042366.D

Acq: 17 Apr 2025 20:05

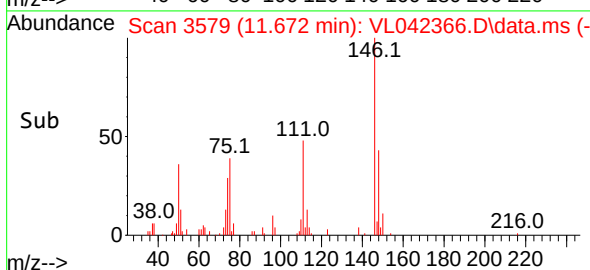
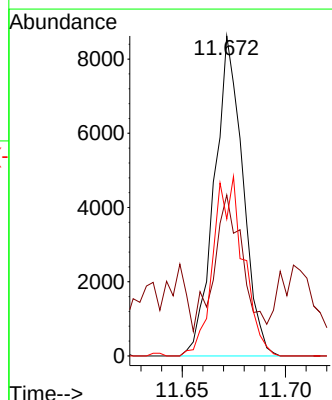
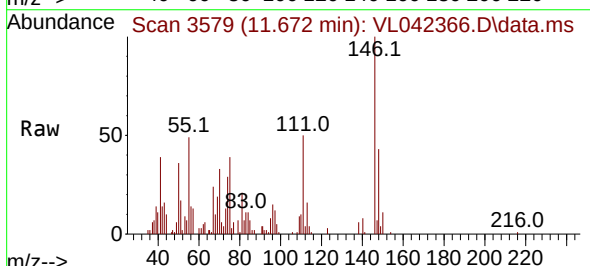
Tgt Ion:146 Resp: 8250

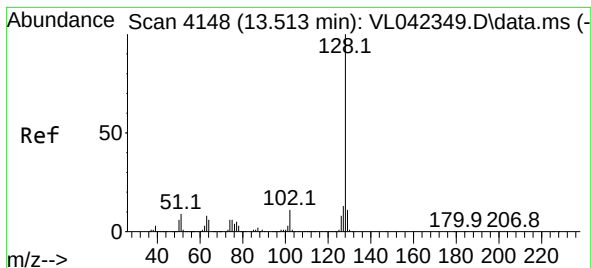
Ion Ratio Lower Upper

146 100

111 144.4 24.2 72.6#

148 59.7 32.1 96.5





#79

Naphthalene

Concen: 2.334 ppbv

RT: 13.513 min Scan# 4148

Delta R.T. 0.000 min

Lab File: VL042366.D

Acq: 17 Apr 2025 20:05

Instrument :

MSVOA_L

ClientSampleId :

IA-DUP-3-03312025

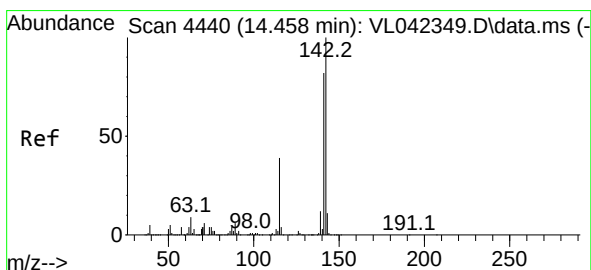
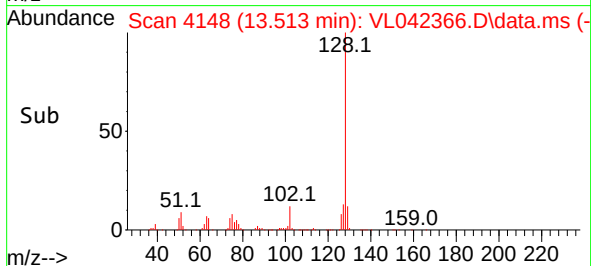
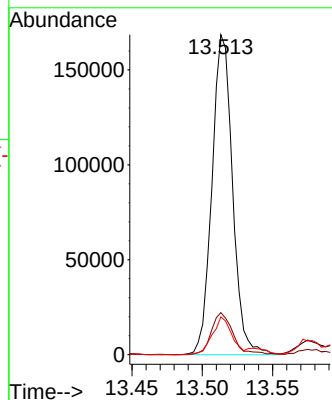
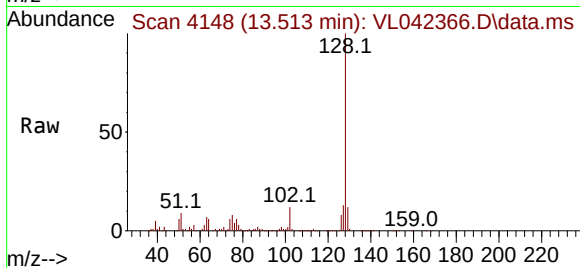
Tgt Ion:128 Resp: 171574

Ion Ratio Lower Upper

128 100

127 13.1 10.6 15.8

129 11.8 8.6 12.8



#80

Naphthalene,2-methyl-

Concen: 0.549 ppbv

RT: 14.588 min Scan# 4480

Delta R.T. 0.129 min

Lab File: VL042366.D

Acq: 17 Apr 2025 20:05

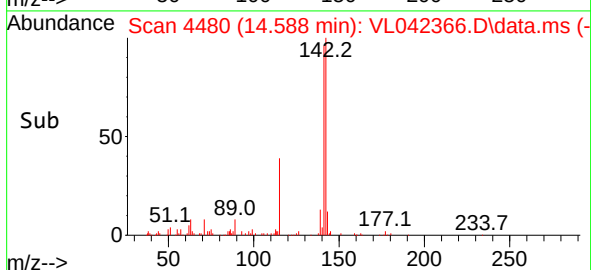
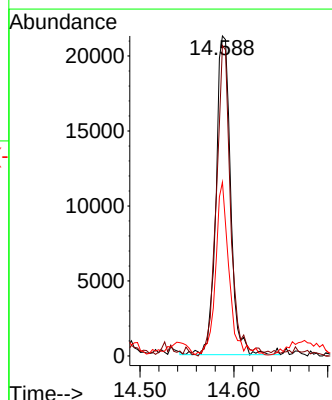
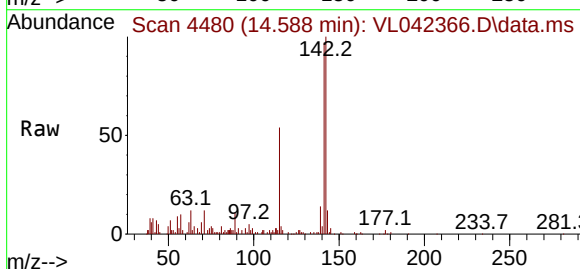
Tgt Ion:142 Resp: 23011

Ion Ratio Lower Upper

142 100

141 96.1 66.8 100.2

115 49.2 33.4 50.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042367.D
 Acq On : 17 Apr 2025 20:38
 Operator : SY/MD
 Sample : Q1726-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-6-03312025

Quant Time: Apr 18 02:43:05 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	117602	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	335422	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	296955	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	247280	10.134	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.300%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	10227	0.492	ppbv	93
3) Chlorodifluoromethane	1.677	51	2339	0.118	ppbv	93
4) Chloromethane	1.531	50	40465	4.921	ppbv	97
6) Bromomethane	1.664	94	249	0.065	ppbv	85
7) Chloroethane	1.703	64	552	0.171	ppbv	94
9) Propene	1.557	41	83793	9.299	ppbv	94
10) Heptane	4.978	43	167433	6.614	ppbv	98
11) Trichlorofluoromethane	1.874	101	4482	0.227	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.136	101	1258	0.078	ppbv #	82
13) Ethanol	1.722	45	349355	243.933	ppbv	76
15) Acetone	1.832	43	2494566	129.576	ppbv #	62
16) 1,3-Butadiene	1.599	39	7420	0.806	ppbv #	55
17) tert-Butyl alcohol	2.042	59	25593	1.073	ppbv	98
19) Isopropyl Alcohol	1.884	45	264094	24.694	ppbv #	33
20) Methylene Chloride	2.062	84	53039	7.035	ppbv	95
21) Allyl Chloride	2.078	41	2733	0.206	ppbv #	21
23) Vinyl Acetate	2.457	43	51837	6.652	ppbv #	93
25) Ethyl Acetate	2.826	43	104617	2.204	ppbv #	89
26) Hexane	2.826	57	134610	7.007	ppbv #	35
27) Carbon Disulfide	2.149	76	1450	0.071	ppbv #	47
30) Cyclohexane	3.858	84	13512	0.870	ppbv #	1
32) 1,1,1-Trichloroethane	3.369	97	1713	0.056	ppbv	90
34) 2-Butanone	2.557	43	50219	1.893	ppbv	97
35) Carbon Tetrachloride	3.768	117	1102	0.036	ppbv	95
36) Benzene	3.654	78	61349	1.696	ppbv #	96
37) 1,2-Dichloroethane	3.217	62	3633	0.167	ppbv #	88
39) 1,2-Dichloropropane	3.955	63	91430	6.782	ppbv #	23
41) Tetrahydrofuran	3.062	42	6945	0.449	ppbv #	76
43) Methyl Methacrylate	4.881	69	512	0.031	ppbv #	1
44) 2,2,4-Trimethylpentane	4.638	57	905076	14.485	ppbv	94
50) 4-Methyl-2-Pentanone	5.765	43	3640	0.083	ppbv #	11
51) 2-Hexanone	7.419	43	61300	1.551	ppbv #	27
52) Tetrachloroethene	8.224	164	1031	0.074	ppbv #	84
53) Toluene	6.933	91	1722699	39.680	ppbv	100
58) Ethyl Benzene	9.354	91	505495	8.592	ppbv	100
59) m/p-Xylene	9.529	91	1399337	29.524	ppbv	99
60) o-Xylene	9.963	91	552991	11.586	ppbv	99
61) Styrene	9.869	104	7256	0.319	ppbv	95
62) Isopropylbenzene	10.539	105	52108	0.744	ppbv	99
64) n-propylbenzene	10.989	120	45701	2.595	ppbv	95
65) tert-Butylbenzene	11.536	119	97556	1.515	ppbv #	73
66) Benzyl Chloride	11.536	91	109757	15.509	ppbv #	70
67) sec-Butylbenzene	11.769	105	15818	0.177	ppbv #	76

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042367.D
 Acq On : 17 Apr 2025 20:38
 Operator : SY/MD
 Sample : Q1726-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-6-03312025

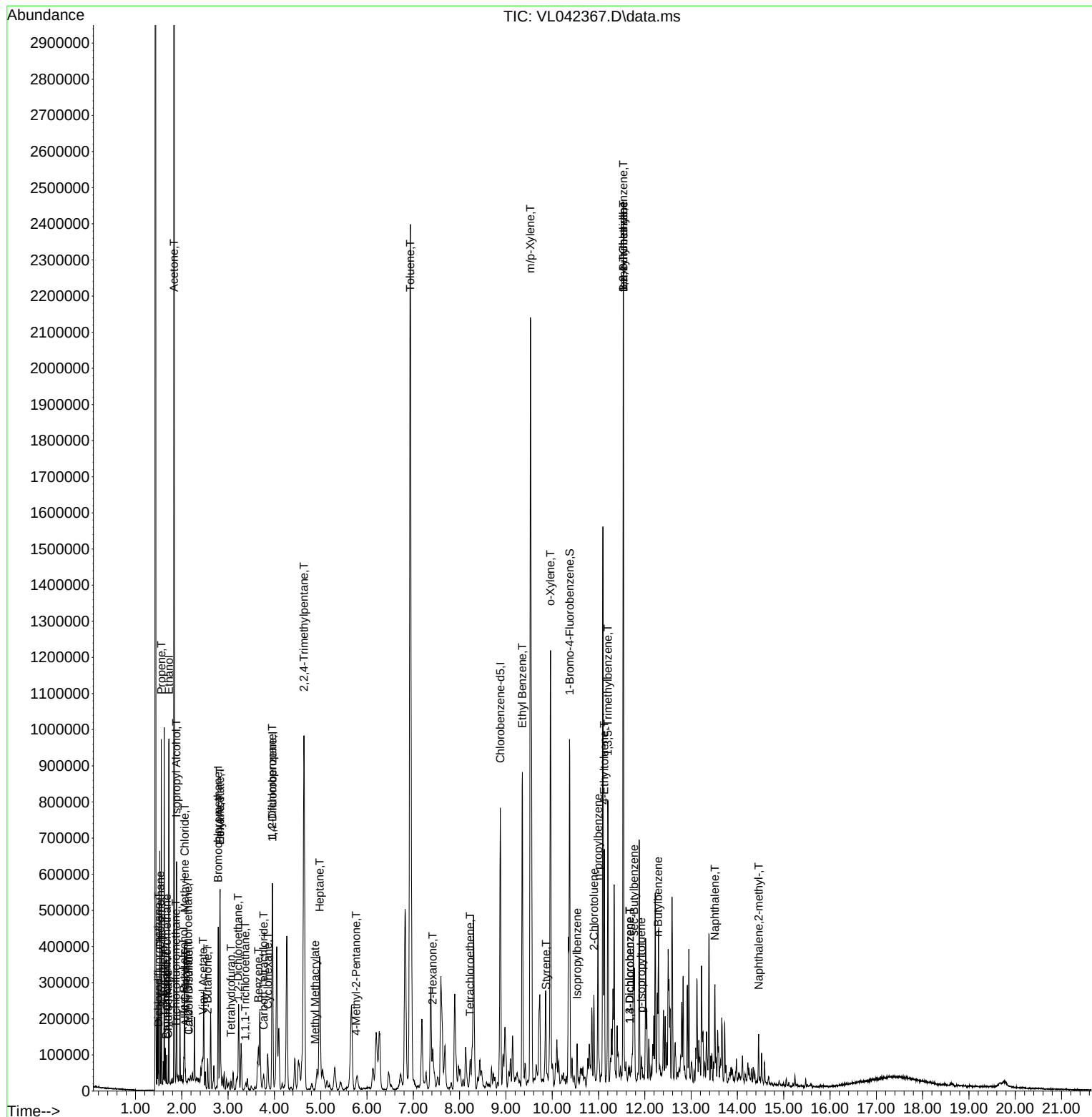
Quant Time: Apr 18 02:43:05 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 02:14:00 2025
 Response via : Initial Calibration

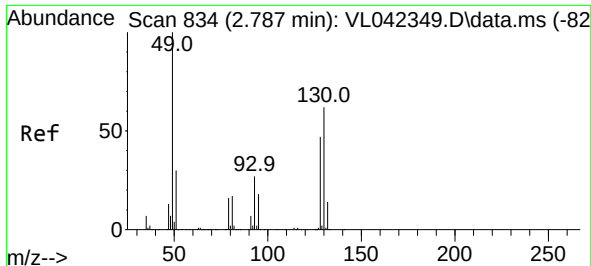
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

69) p-Isopropyltoluene	11.924	119	24554	0.315	ppbv	96
70) n-Butylbenzene	12.286	91	76213	0.940	ppbv #	38
71) 2-Chlorotoluene	10.901	91	48685	0.886	ppbv	98
72) 4-Ethyltoluene	11.124	105	257296	4.410	ppbv #	56
73) 1,3,5-Trimethylbenzene	11.202	105	275258	5.343	ppbv	97
74) 1,2,4-Trimethylbenzene	11.536	105	895635	14.886	ppbv #	65
75) 1,3-Dichlorobenzene	11.671	146	6955	0.222	ppbv	83
76) 1,4-Dichlorobenzene	11.671	146	6955	0.221	ppbv #	69
79) Naphthalene	13.513	128	122970	1.709	ppbv	99
80) Naphthalene,2-methyl-	14.458	142	31538	0.769	ppbv	93

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

Quant Time: Apr 18 02:43:05 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

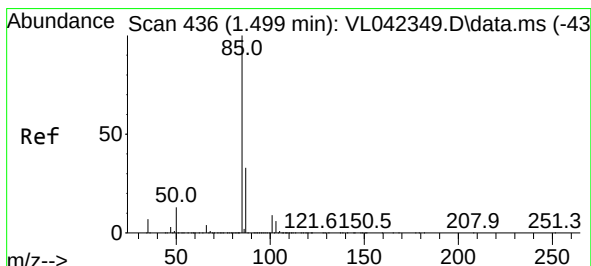
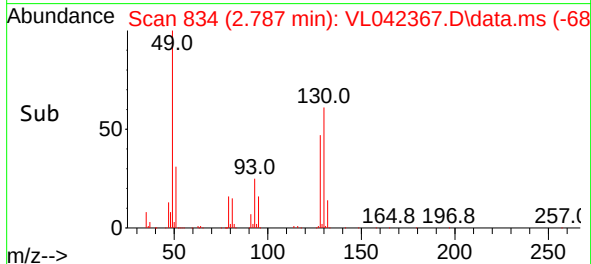
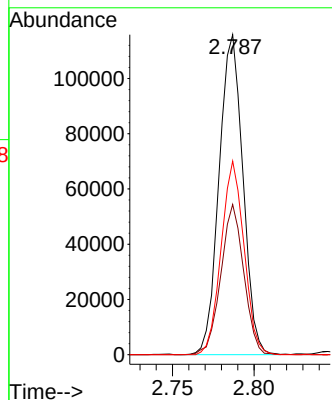
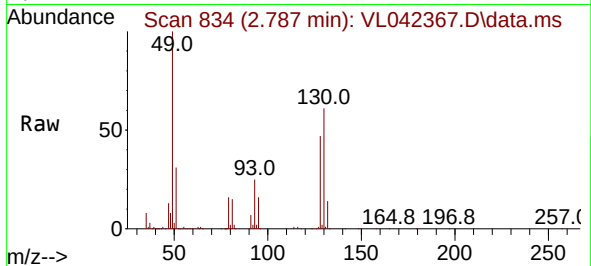




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 834
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

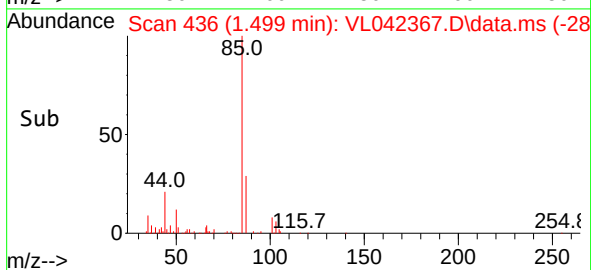
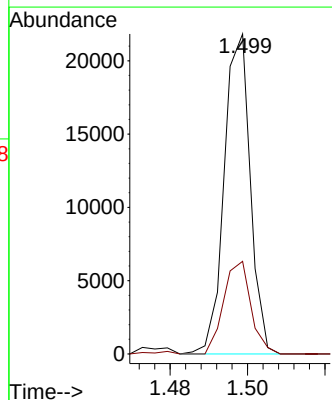
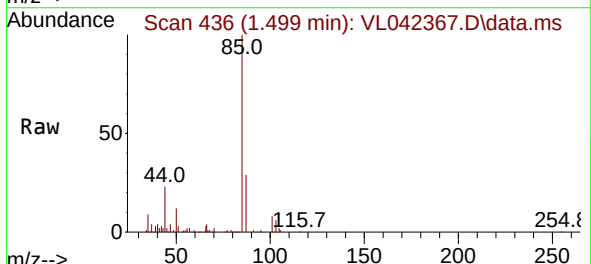
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

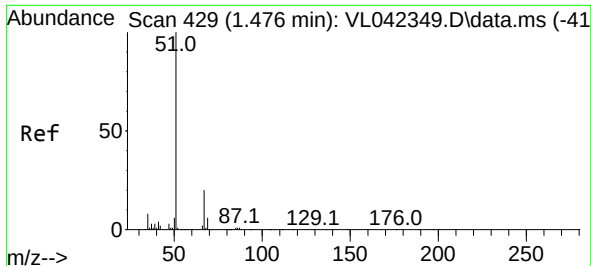
Tgt Ion: 49 Resp: 117602
Ion Ratio Lower Upper
49 100
128 45.1 22.8 68.4
130 58.1 29.3 88.0



#2
Dichlorodifluoromethane
Concen: 0.492 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion: 85 Resp: 10227
Ion Ratio Lower Upper
85 100
87 29.0 26.6 39.8

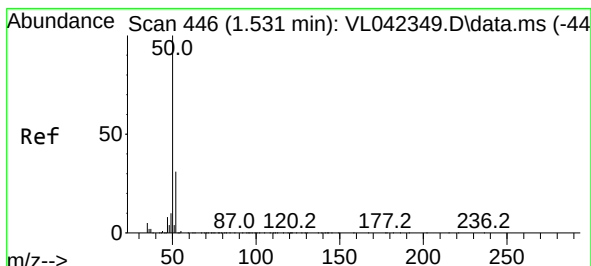
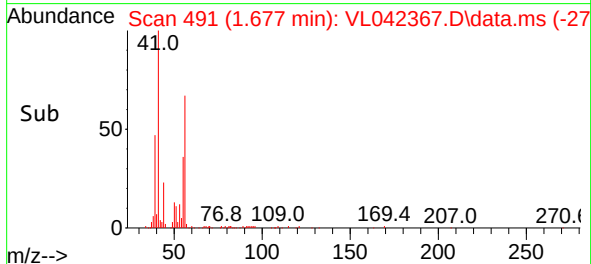
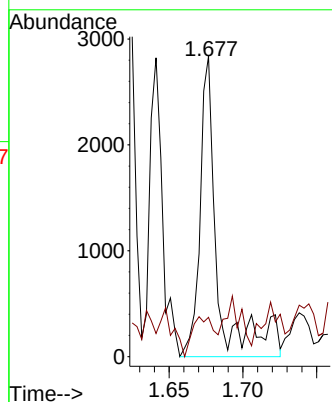
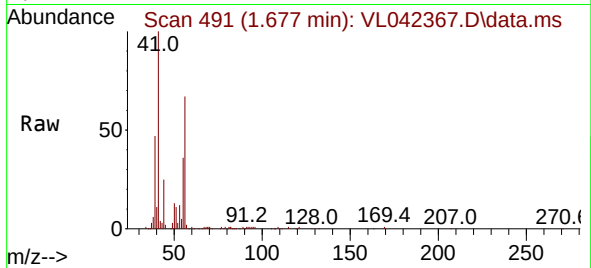




#3
Chlorodifluoromethane
Concen: 0.118 ppbv
RT: 1.677 min Scan# 491
Delta R.T. 0.201 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

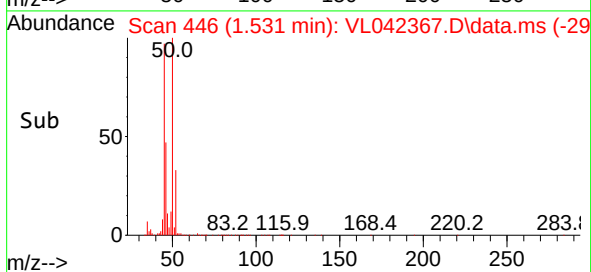
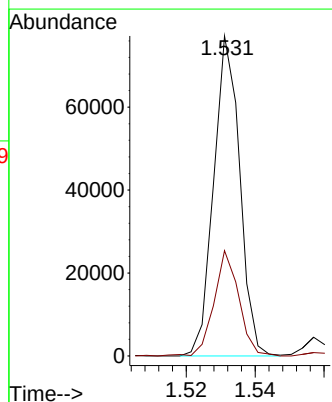
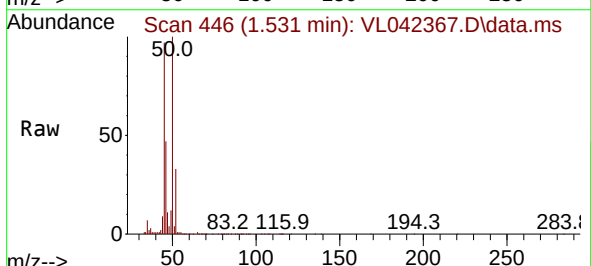
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

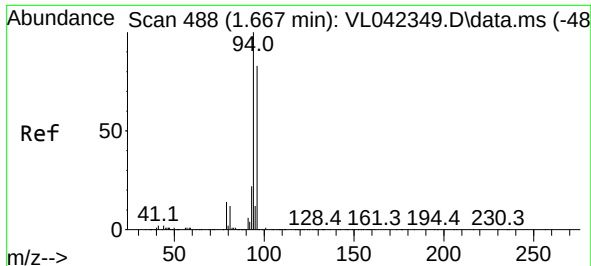
Tgt Ion: 51 Resp: 2339
Ion Ratio Lower Upper
51 100
67 23.6 16.2 24.4



#4
Chloromethane
Concen: 4.921 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion: 50 Resp: 40465
Ion Ratio Lower Upper
50 100
52 32.7 24.7 37.1

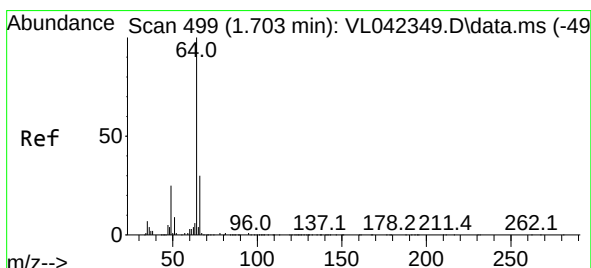
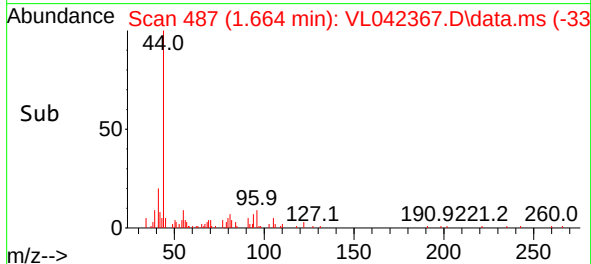
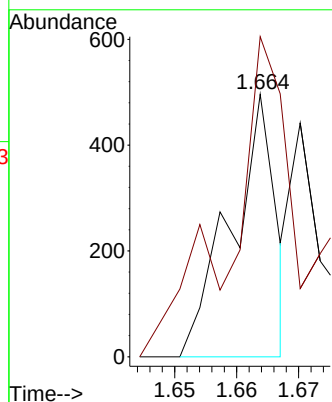
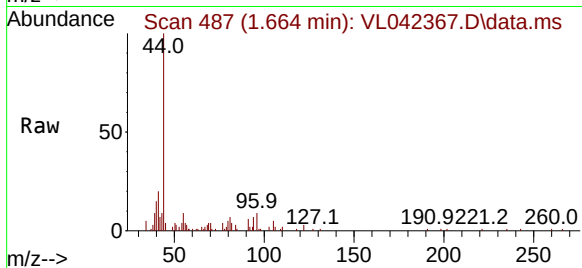




#6
Bromomethane
Concen: 0.065 ppbv
RT: 1.664 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

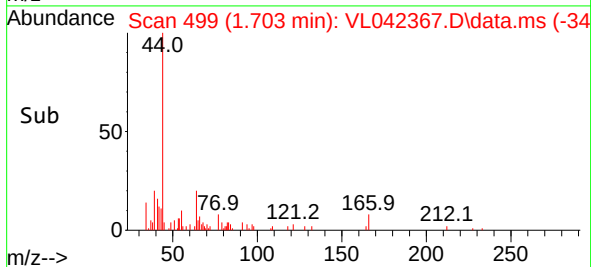
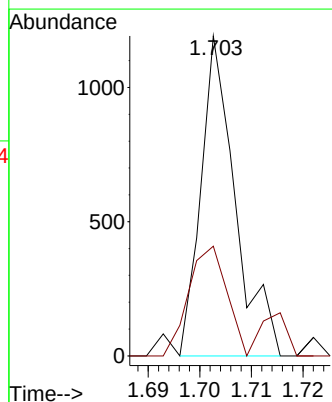
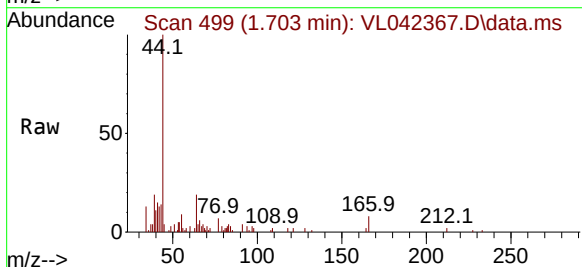
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

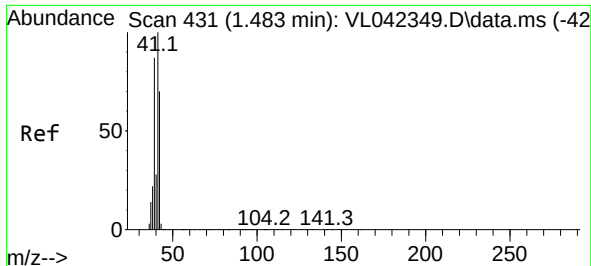
Tgt Ion: 94 Resp: 249
Ion Ratio Lower Upper
94 100
96 96.2 66.2 99.2



#7
Chloroethane
Concen: 0.171 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion: 64 Resp: 552
Ion Ratio Lower Upper
64 100
66 34.3 24.6 37.0





#9

Propene

Concen: 9.299 ppbv

RT: 1.557 min Scan# 41

Delta R.T. 0.074 min

Lab File: VL042367.D

Acq: 17 Apr 2025 20:38

Instrument :

MSVOA_L

ClientSampleId :

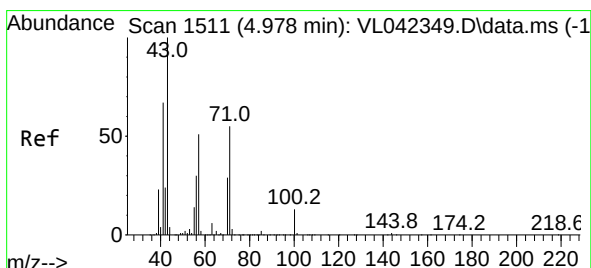
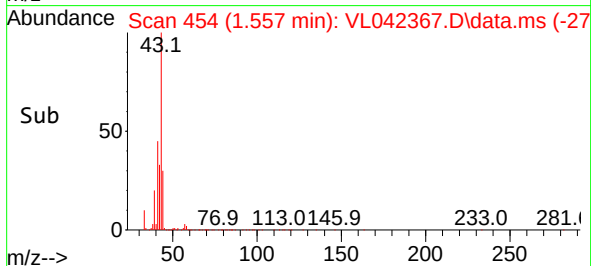
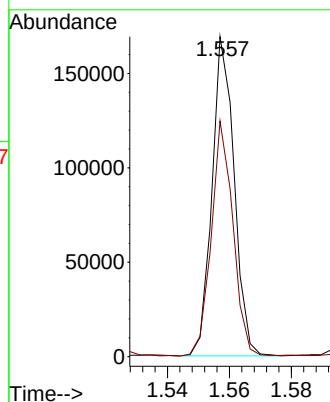
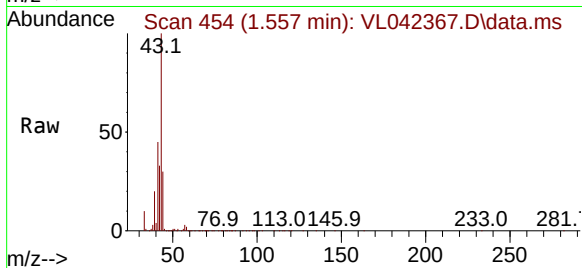
IA-B2-6-03312025

Tgt Ion: 41 Resp: 83793

Ion Ratio Lower Upper

41 100

42 74.9 56.2 84.4



#10

Heptane

Concen: 6.614 ppbv

RT: 4.978 min Scan# 1511

Delta R.T. -0.000 min

Lab File: VL042367.D

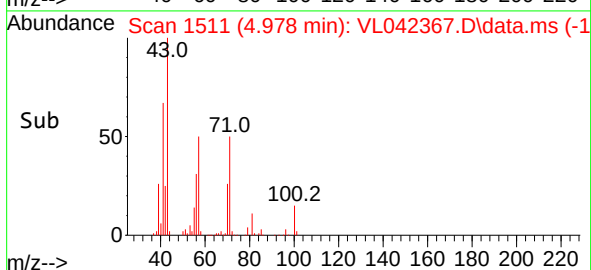
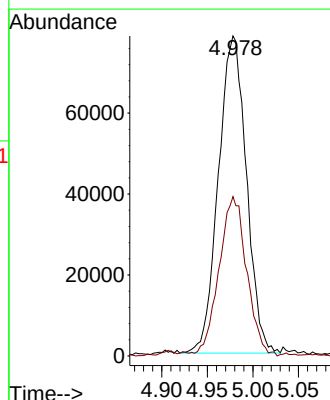
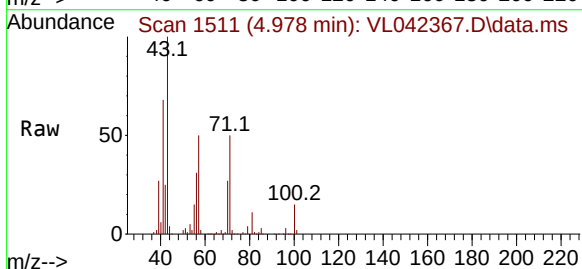
Acq: 17 Apr 2025 20:38

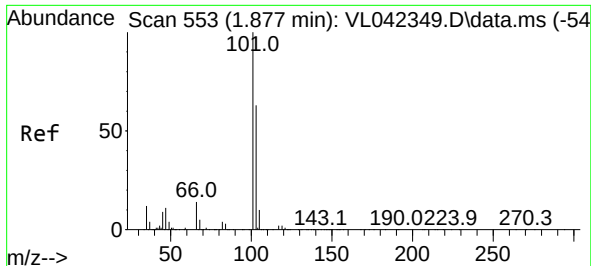
Tgt Ion: 43 Resp: 167433

Ion Ratio Lower Upper

43 100

57 51.5 39.9 59.9

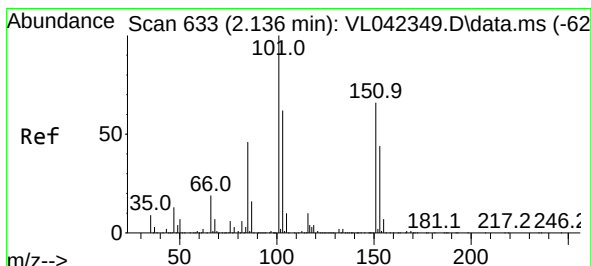
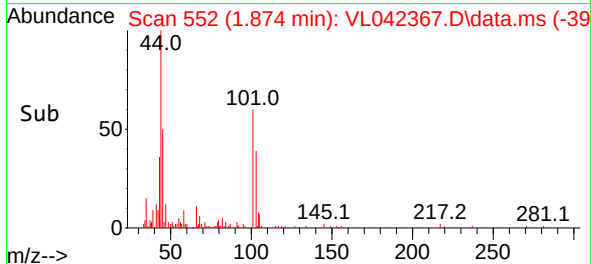
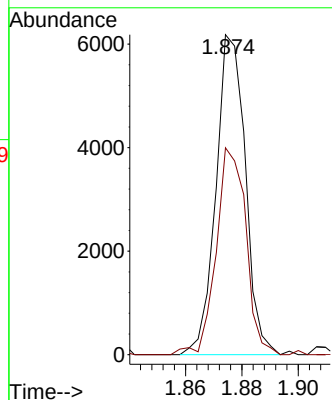
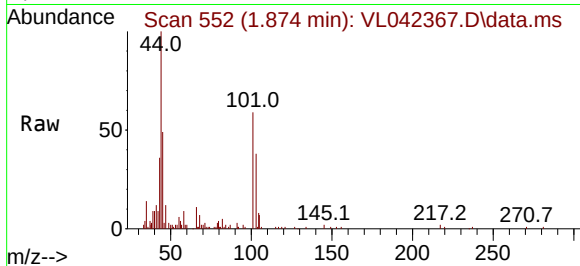




#11
 Trichlorofluoromethane
 Concen: 0.227 ppbv
 RT: 1.874 min Scan# 511
 Delta R.T. -0.003 min
 Lab File: VL042367.D
 Acq: 17 Apr 2025 20:38

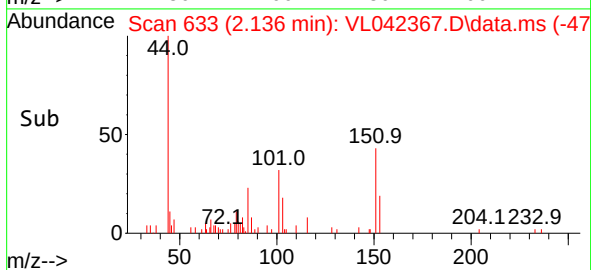
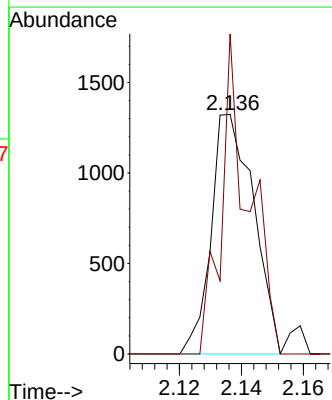
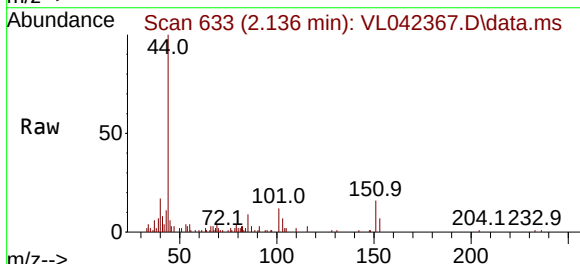
Instrument :
 MSVOA_L
 ClientSampleId :
 LA-B2-6-03312025

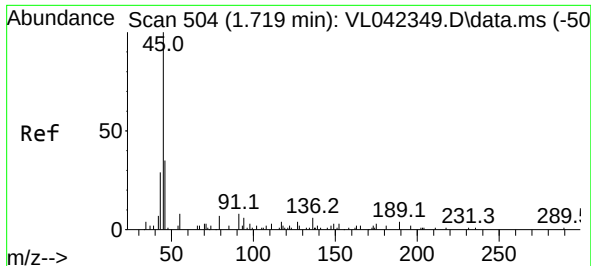
Tgt Ion:101 Resp: 4482
 Ion Ratio Lower Upper
 101 100
 103 64.6 50.1 75.1



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.078 ppbv
 RT: 2.136 min Scan# 633
 Delta R.T. -0.000 min
 Lab File: VL042367.D
 Acq: 17 Apr 2025 20:38

Tgt Ion:101 Resp: 1258
 Ion Ratio Lower Upper
 101 100
 151 86.6 57.0 85.6#

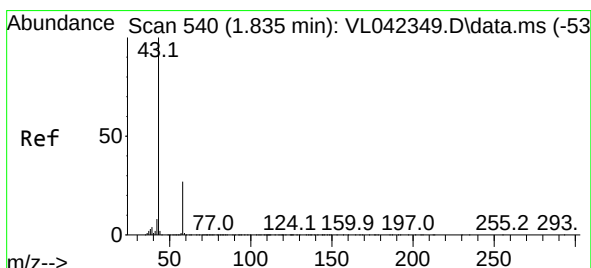
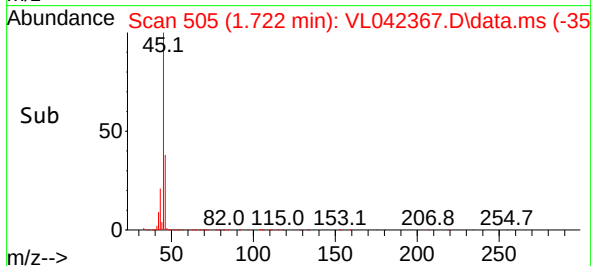
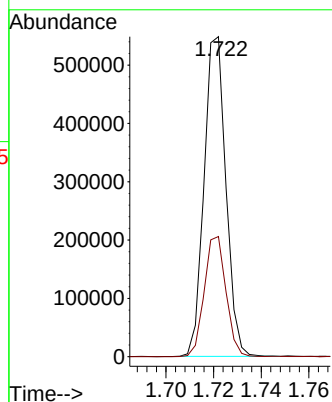
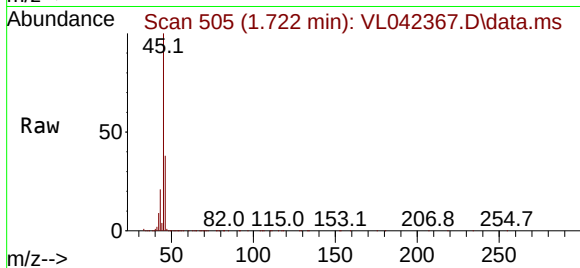




#13
Ethanol
Concen: 243.933 ppbv
RT: 1.722 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

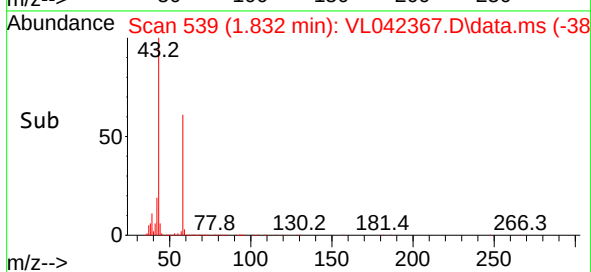
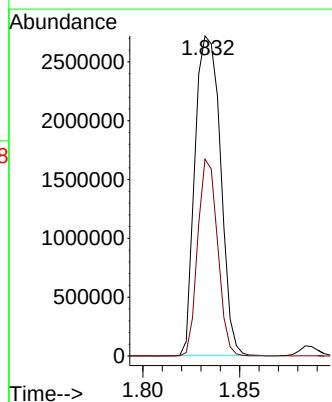
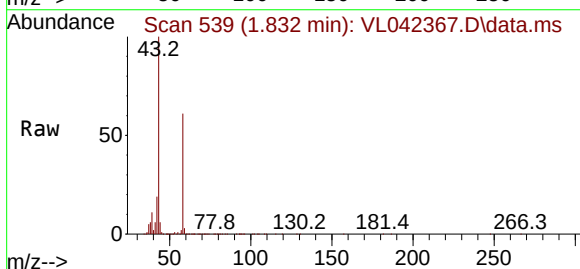
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

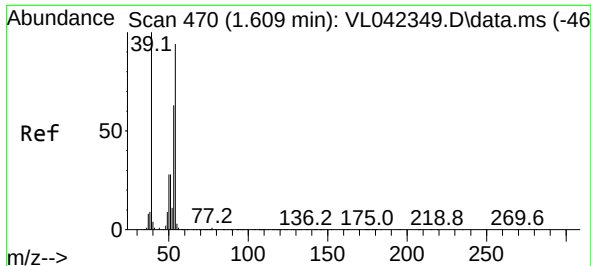
Tgt Ion: 45 Resp: 349355
Ion Ratio Lower Upper
45 100
46 37.6 21.9 87.7



#15
Acetone
Concen: 129.576 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.003 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion: 43 Resp: 2494566
Ion Ratio Lower Upper
43 100
58 48.0 22.4 33.6#

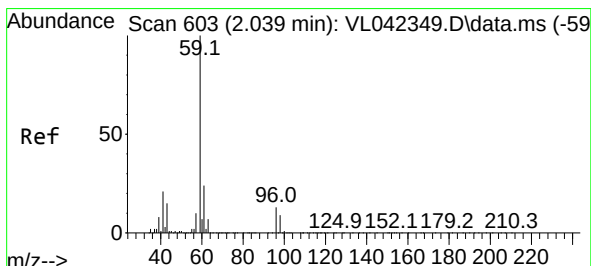
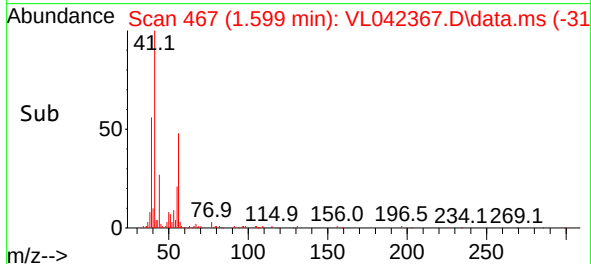
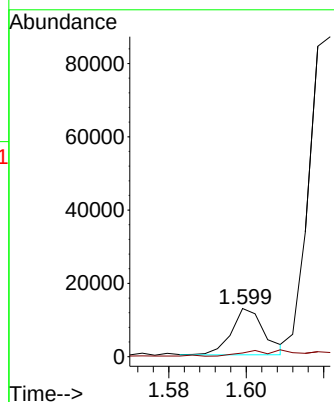
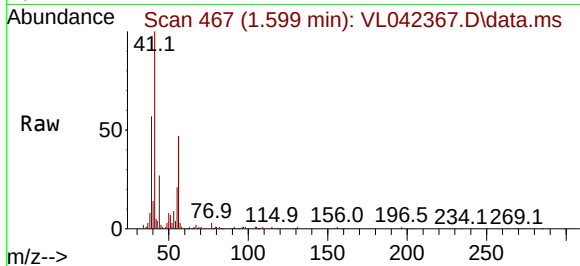




#16
1,3-Butadiene
Concen: 0.806 ppbv
RT: 1.599 min Scan# 41
Delta R.T. -0.010 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

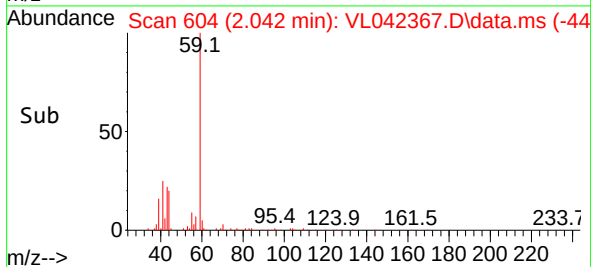
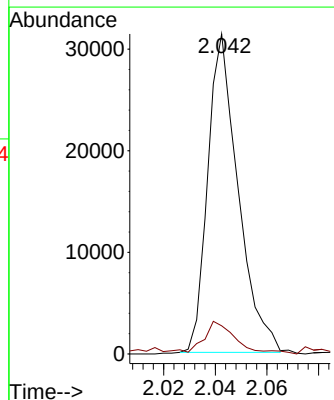
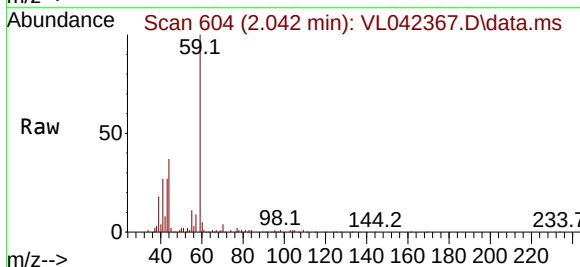
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

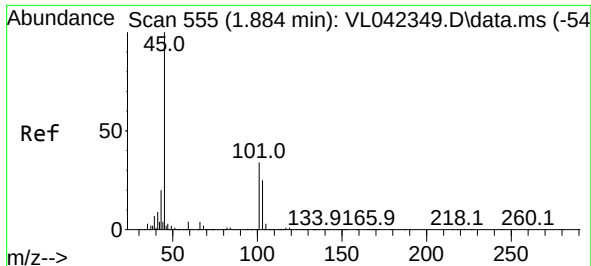
Tgt Ion: 39 Resp: 7420
Ion Ratio Lower Upper
39 100
54 40.8 64.9 97.3#



#17
tert-Butyl alcohol
Concen: 1.073 ppbv
RT: 2.042 min Scan# 604
Delta R.T. 0.003 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion: 59 Resp: 25593
Ion Ratio Lower Upper
59 100
57 11.5 8.7 13.1

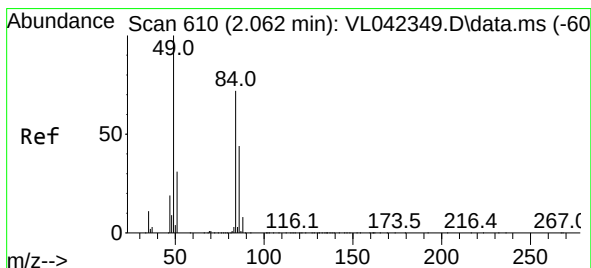
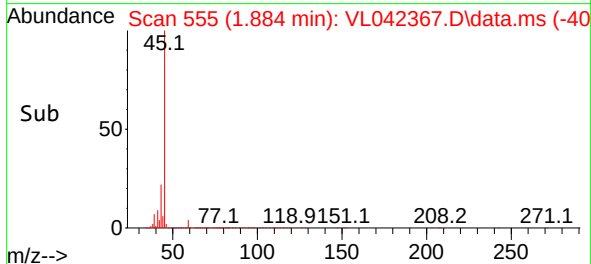
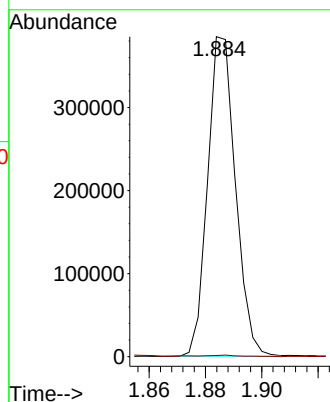
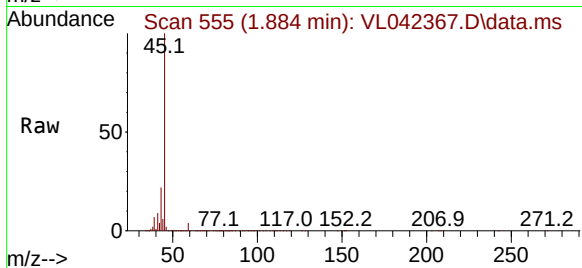




#19
Isopropyl Alcohol
Concen: 24.694 ppbv
RT: 1.884 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

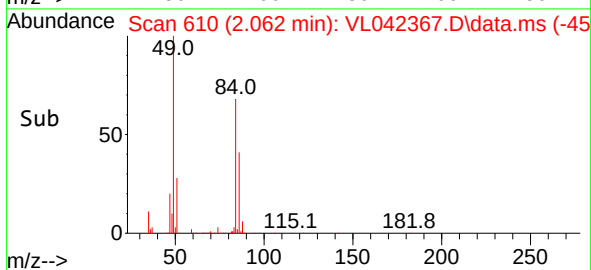
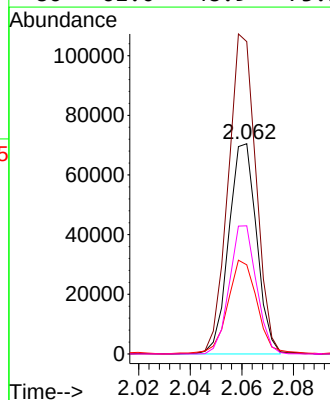
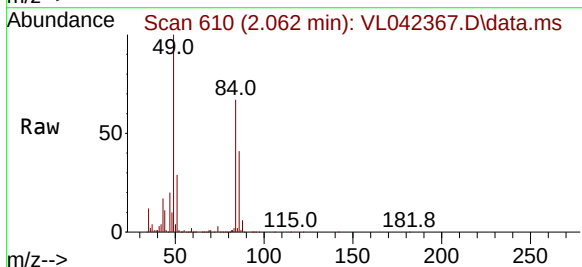
Instrument :
MSVOA_1
ClientSampleId :
IA-B2-6-03312025

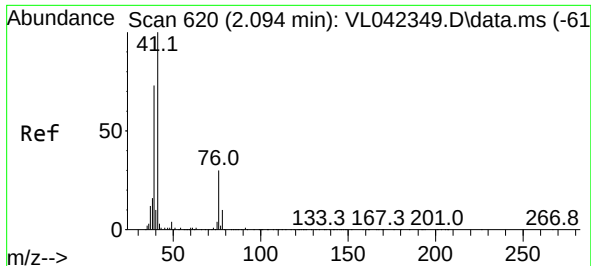
Tgt Ion: 45 Resp: 264094
Ion Ratio Lower Upper
45 100
58 0.0 34.5 51.7#



#20
Methylene Chloride
Concen: 7.035 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion: 84 Resp: 53039
Ion Ratio Lower Upper
84 100
49 148.2 111.6 167.4
51 42.0 35.1 52.7
86 61.0 48.9 73.3

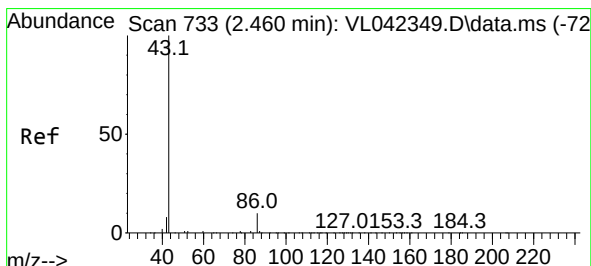
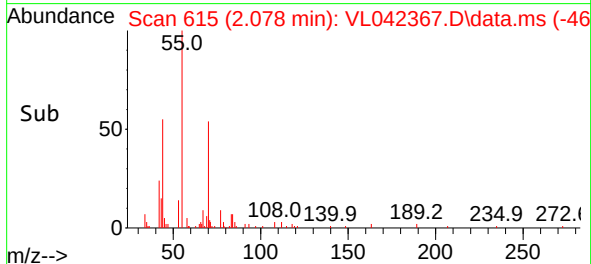
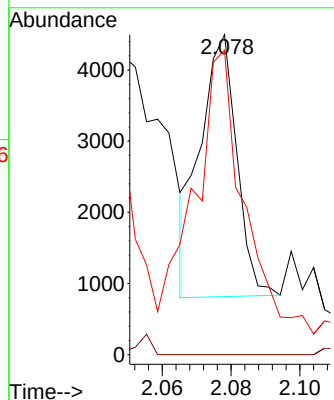
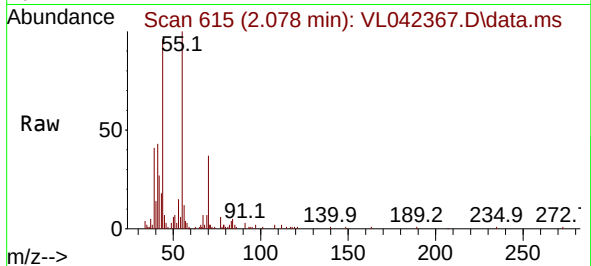




#21
 Allyl Chloride
 Concen: 0.206 ppbv
 RT: 2.078 min Scan# 61
 Delta R.T. -0.016 min
 Lab File: VL042367.D
 Acq: 17 Apr 2025 20:38

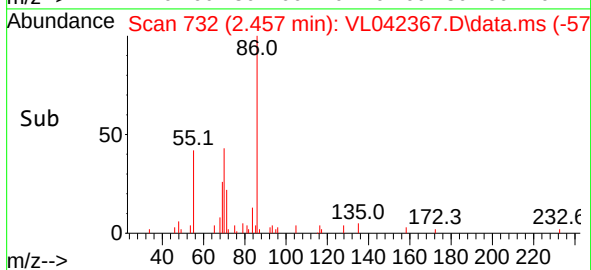
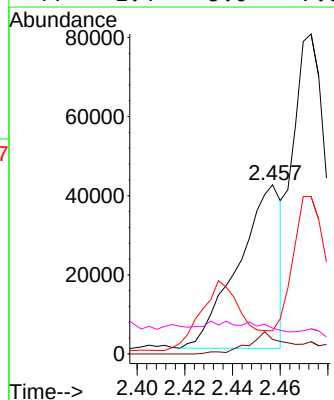
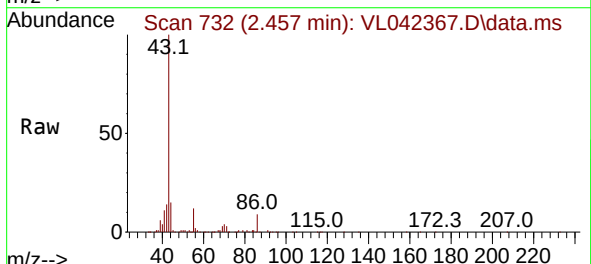
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-6-03312025

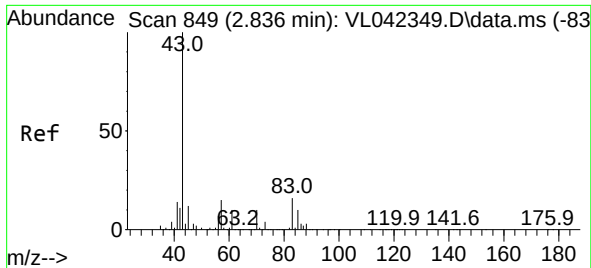
Tgt Ion: 41 Resp: 2733
 Ion Ratio Lower Upper
 41 100
 76 0.0 24.8 37.2#
 39 0.0 60.6 90.8#



#23
 Vinyl Acetate
 Concen: 6.652 ppbv
 RT: 2.457 min Scan# 732
 Delta R.T. -0.003 min
 Lab File: VL042367.D
 Acq: 17 Apr 2025 20:38

Tgt Ion: 43 Resp: 51837
 Ion Ratio Lower Upper
 43 100
 86 9.0 6.5 9.7
 42 7.8 7.8 11.8#
 44 1.4 5.0 7.6#

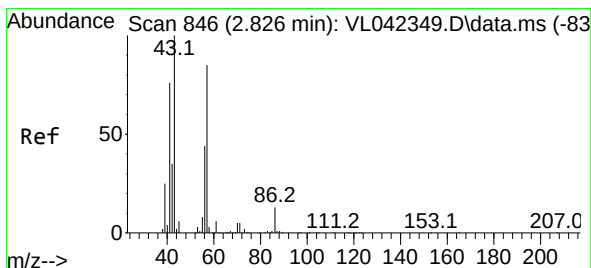
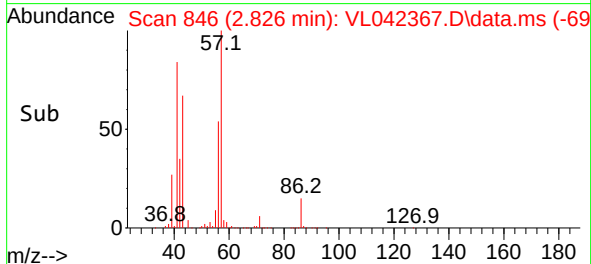
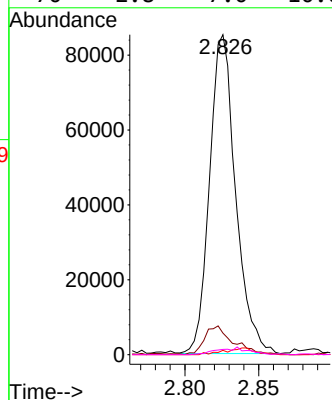
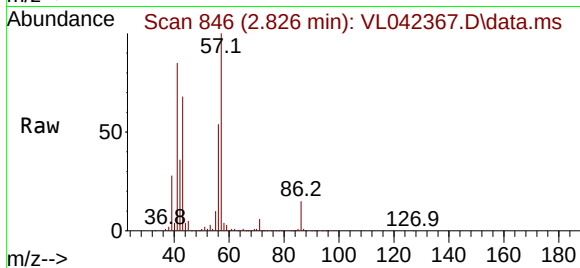




#25
Ethyl Acetate
Concen: 2.204 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.010 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

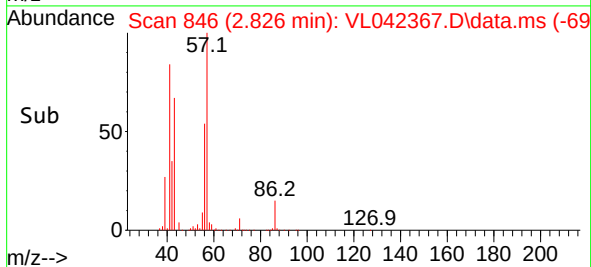
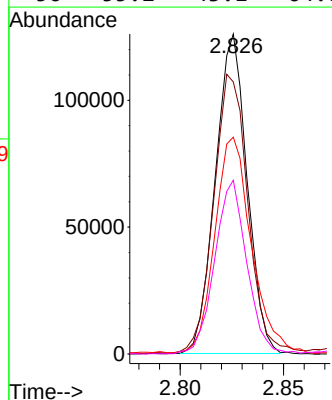
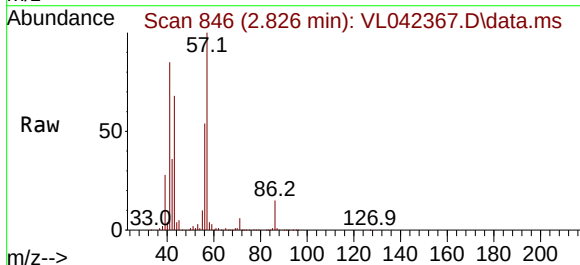
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

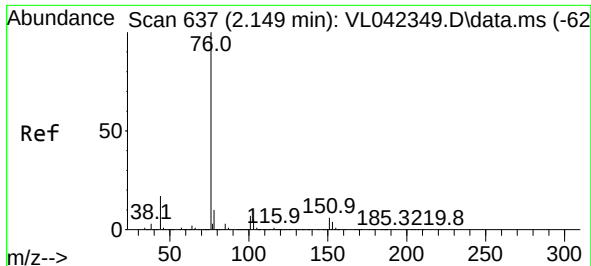
Tgt Ion: 43	Resp: 104617
Ion Ratio	Lower Upper
43 100	
45 10.3	8.3 12.5
61 2.4	7.3 10.9#
70 2.8	7.0 10.6#



#26
Hexane
Concen: 7.007 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt	Ion: 57	Resp:	134610
Ion	Ratio	Lower	Upper
57	100		
41	95.1	77.9	116.9
43	77.8	208.4	312.6#
56	55.2	43.1	64.7

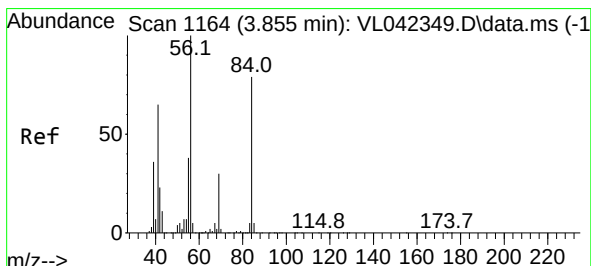
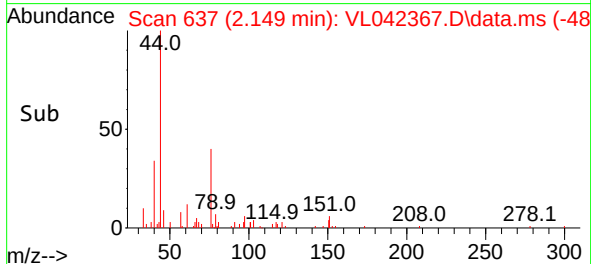
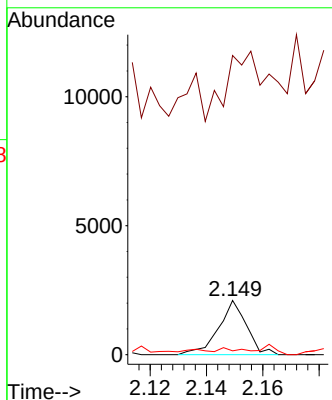
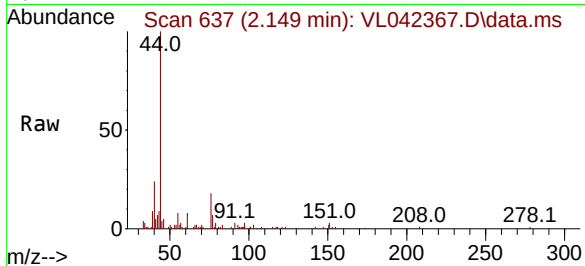




#27
Carbon Disulfide
Concen: 0.071 ppbv
RT: 2.149 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

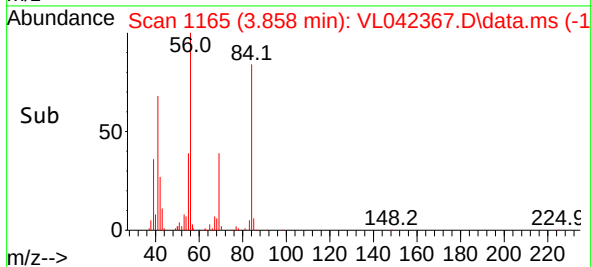
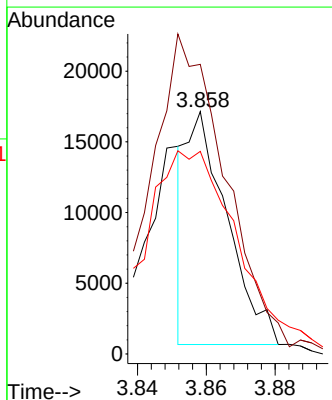
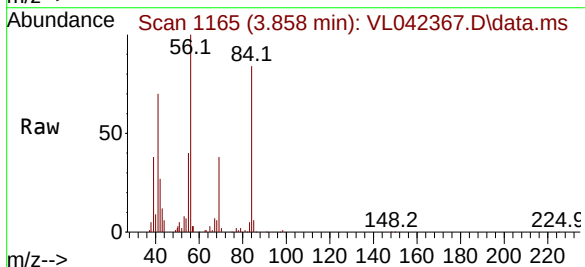
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

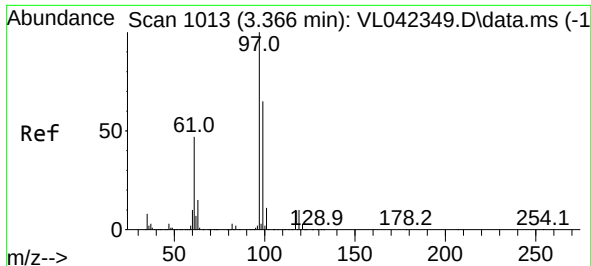
Tgt Ion: 76 Resp: 1450
Ion Ratio Lower Upper
76 100
44 0.0 15.5 23.3#
78 38.3 9.3 13.9#



#30
Cyclohexane
Concen: 0.870 ppbv
RT: 3.858 min Scan# 1165
Delta R.T. 0.003 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion: 84 Resp: 13512
Ion Ratio Lower Upper
84 100
56 263.3 101.0 151.4#
41 195.6 67.4 101.0#

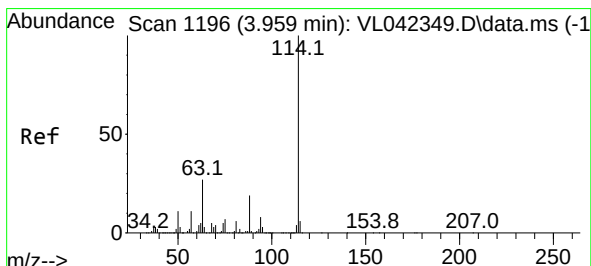
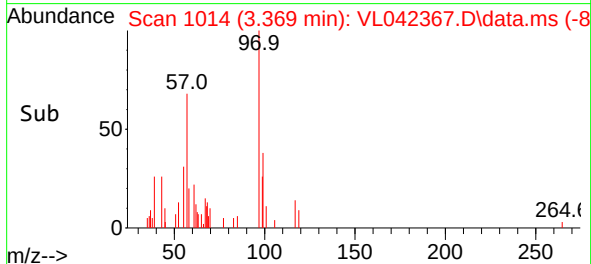
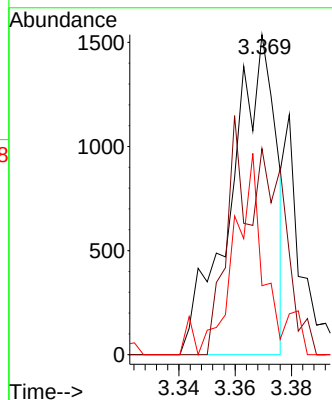
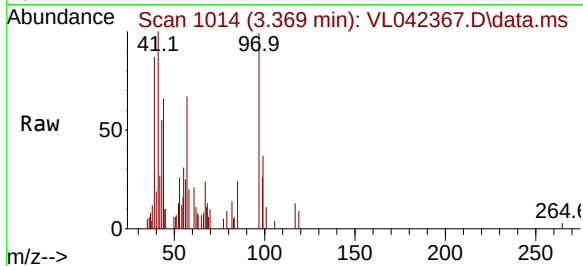




#32
 1,1,1-Trichloroethane
 Concen: 0.056 ppbv
 RT: 3.369 min Scan# 1013
 Delta R.T. 0.003 min
 Lab File: VL042367.D
 Acq: 17 Apr 2025 20:38

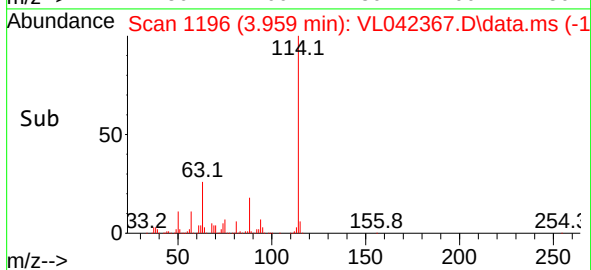
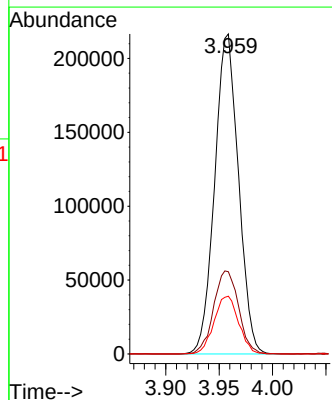
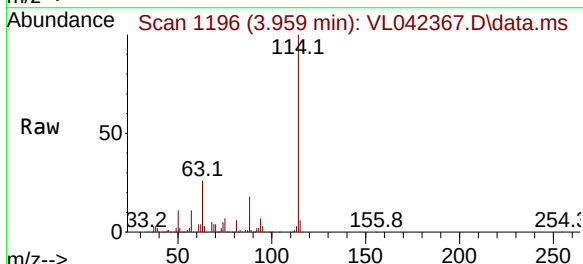
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-6-03312025

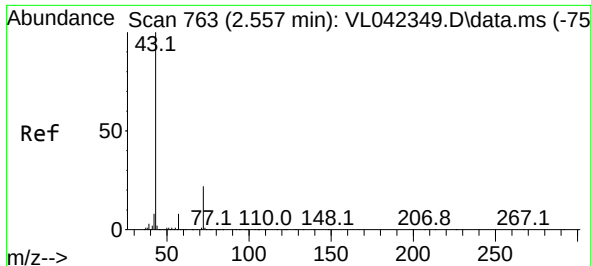
Tgt Ion: 97	Resp: 1713
Ion Ratio	Lower Upper
97 100	
99 74.3	51.0 76.4
61 45.0	38.8 58.2



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.959 min Scan# 1196
 Delta R.T. -0.000 min
 Lab File: VL042367.D
 Acq: 17 Apr 2025 20:38

Tgt Ion:114	Resp: 335422
Ion Ratio	Lower Upper
114 100	
63 27.3	21.8 32.6
88 18.7	15.5 23.3

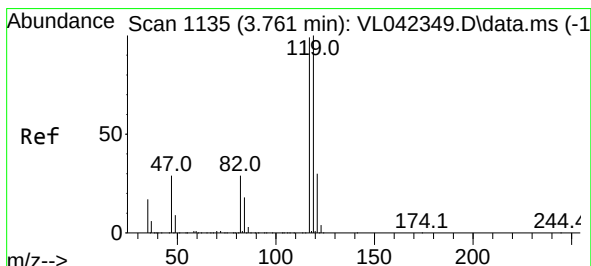
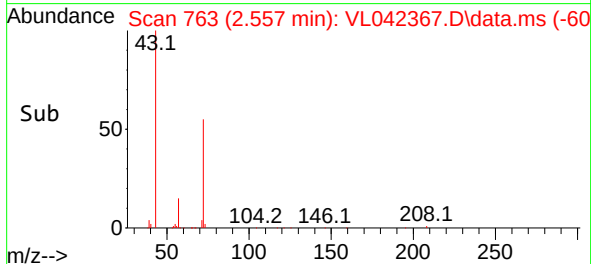
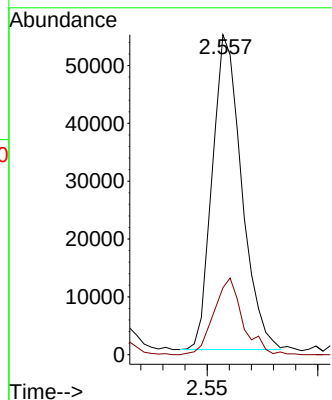
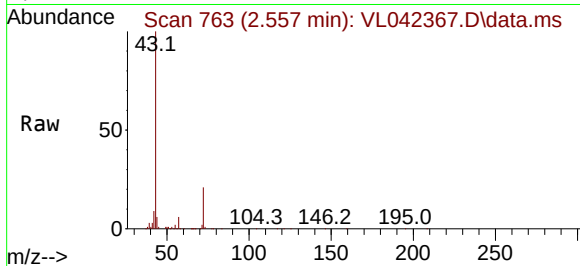




#34
2-Butanone
Concen: 1.893 ppbv
RT: 2.557 min Scan# 763
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

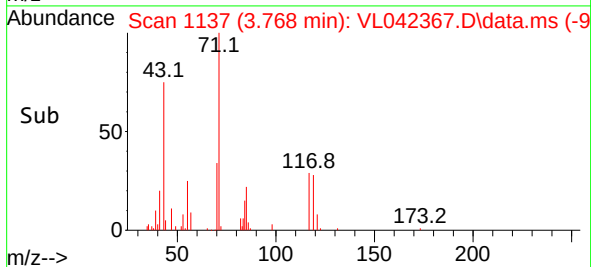
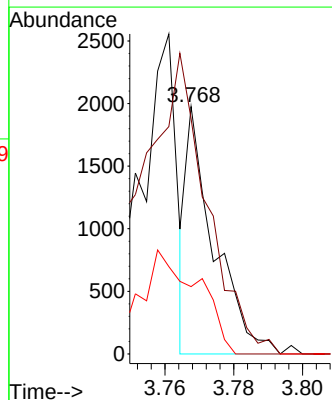
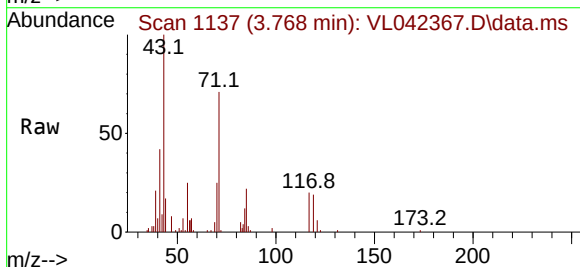
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

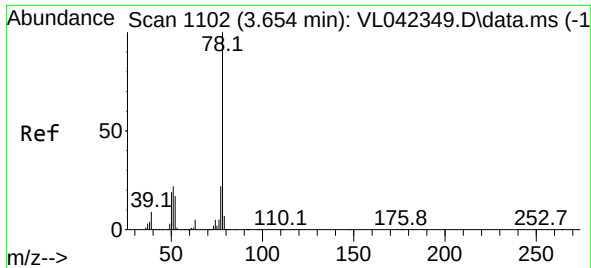
Tgt Ion: 43 Resp: 50219
Ion Ratio Lower Upper
43 100
72 23.9 18.2 27.2



#35
Carbon Tetrachloride
Concen: 0.036 ppbv
RT: 3.768 min Scan# 1137
Delta R.T. 0.006 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion: 117 Resp: 1102
Ion Ratio Lower Upper
117 100
119 95.1 80.5 120.7
121 27.2 24.2 36.2

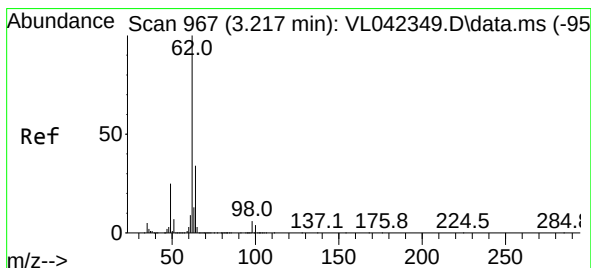
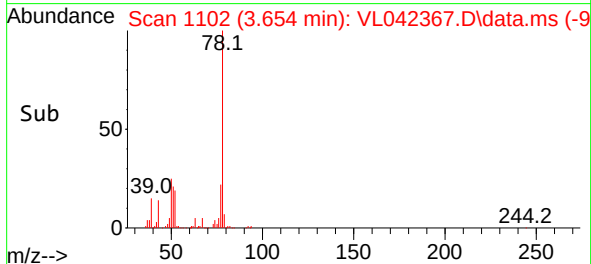
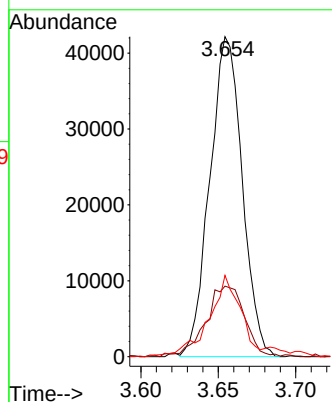
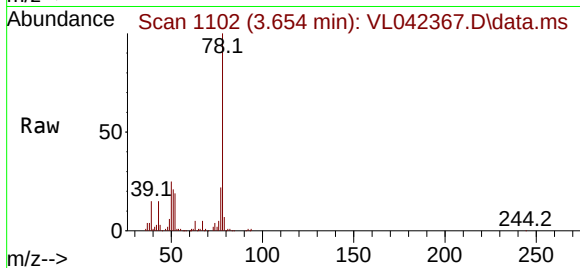




#36
Benzene
Concen: 1.696 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

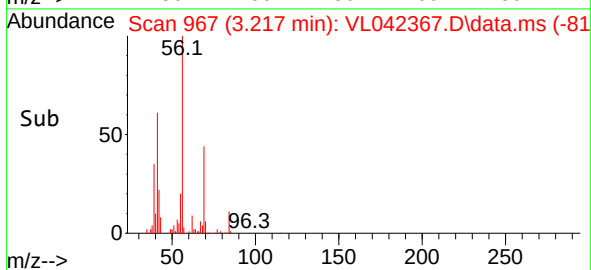
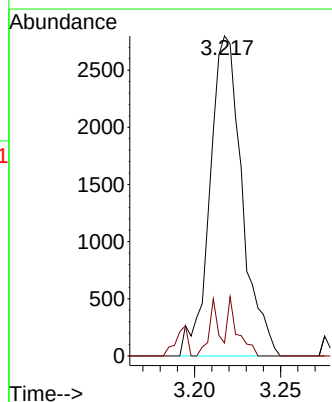
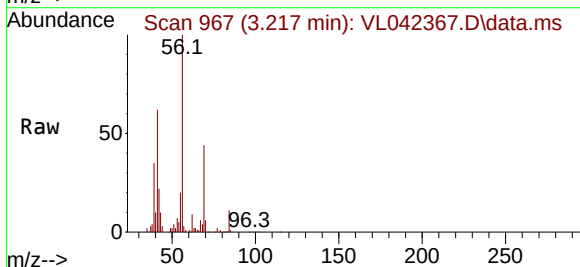
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

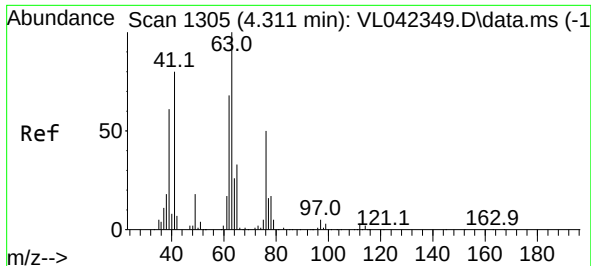
Tgt Ion	Ratio	Lower	Upper
78	100		
77	21.9	17.4	26.0
50	23.4	15.5	23.3



#37
1,2-Dichloroethane
Concen: 0.167 ppbv
RT: 3.217 min Scan# 967
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion	Ratio	Lower	Upper
62	100		
98	10.7	5.1	7.7





#39

1,2-Dichloropropane

Concen: 6.782 ppbv

RT: 3.955 min Scan# 1195

Delta R.T. -0.356 min

Lab File: VL042367.D

Acq: 17 Apr 2025 20:38

Instrument :

MSVOA_L

ClientSampleId :

IA-B2-6-03312025

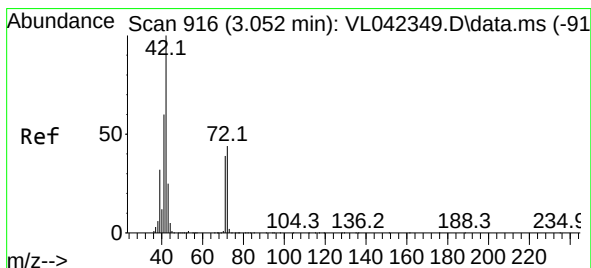
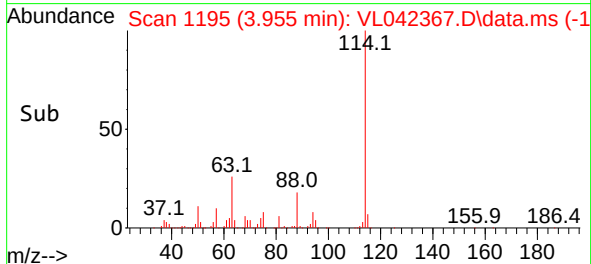
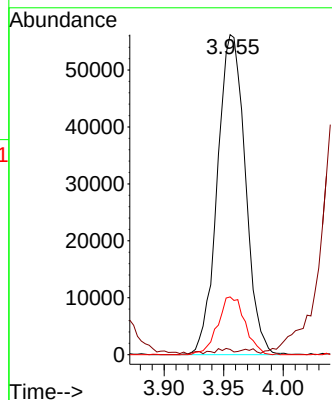
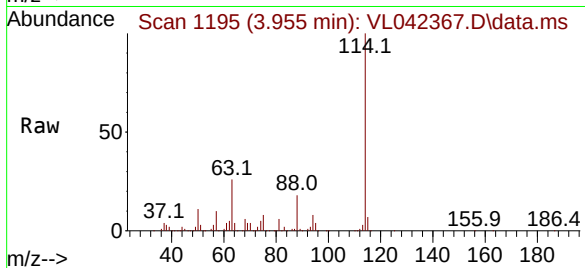
Tgt Ion: 63 Resp: 91430

Ion Ratio Lower Upper

63 100

41 1.3 64.2 96.2#

62 18.0 54.3 81.5#



#41

Tetrahydrofuran

Concen: 0.449 ppbv

RT: 3.062 min Scan# 919

Delta R.T. 0.010 min

Lab File: VL042367.D

Acq: 17 Apr 2025 20:38

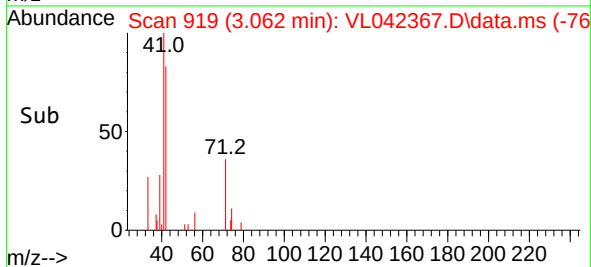
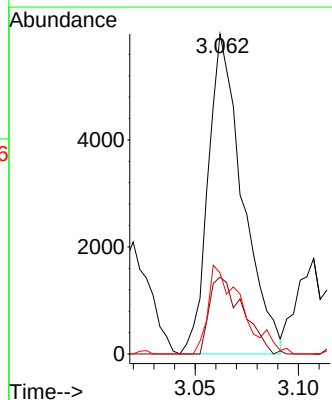
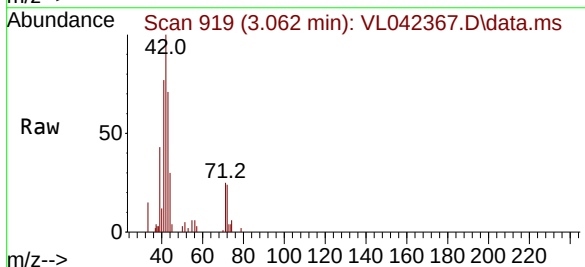
Tgt Ion: 42 Resp: 6945

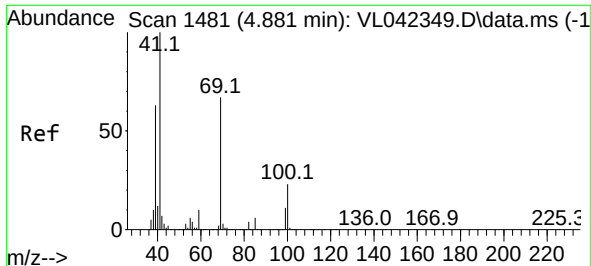
Ion Ratio Lower Upper

42 100

72 23.4 32.3 48.5#

71 27.1 31.4 47.2#

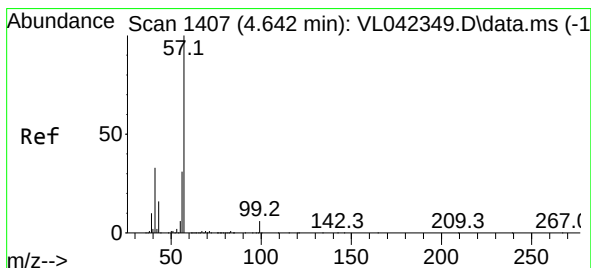
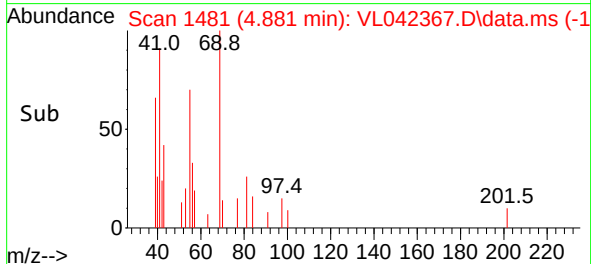
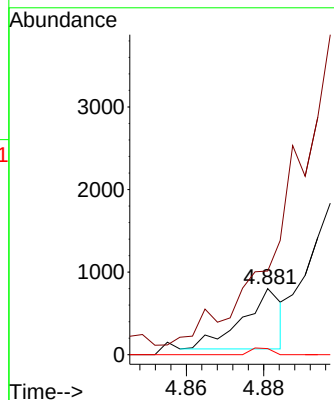
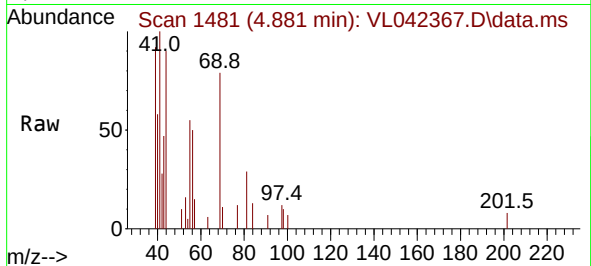




#43
Methyl Methacrylate
Concen: 0.031 ppbv
RT: 4.881 min Scan# 1481
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

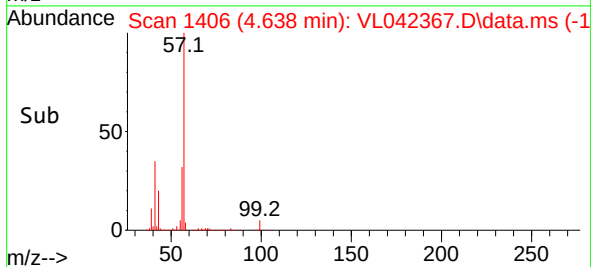
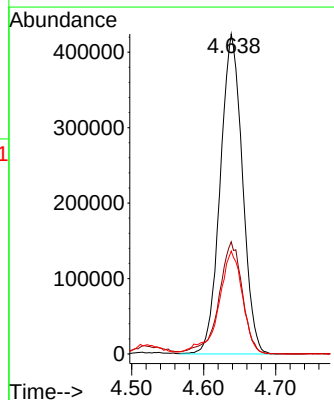
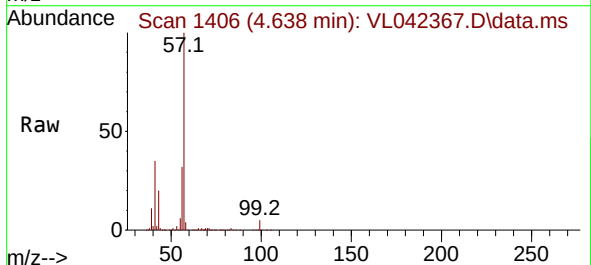
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

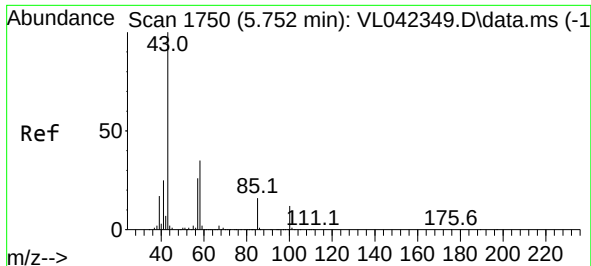
Tgt Ion:	69	Resp:	512
Ion	Ratio	Lower	Upper
69	100		
41	0.0	118.6	177.8#
100	0.0	28.2	42.2#



#44
2,2,4-Trimethylpentane
Concen: 14.485 ppbv
RT: 4.638 min Scan# 1406
Delta R.T. -0.003 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion:	57	Resp:	905076
Ion	Ratio	Lower	Upper
57	100		
41	37.4	27.2	40.8
56	35.0	25.7	38.5

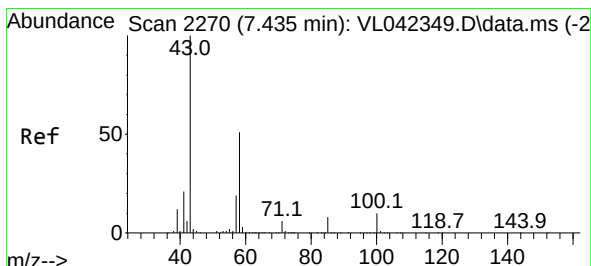
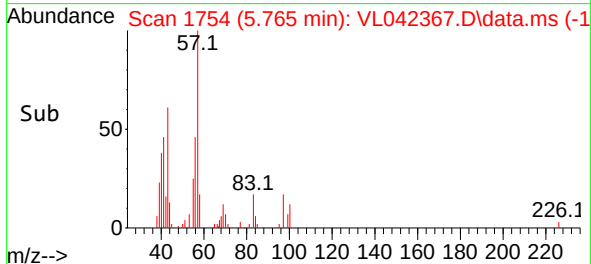
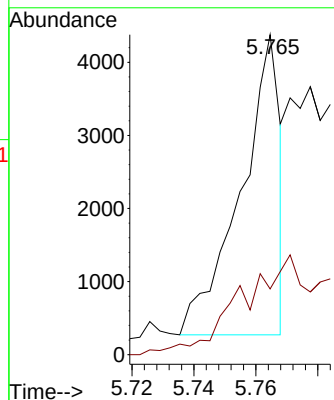
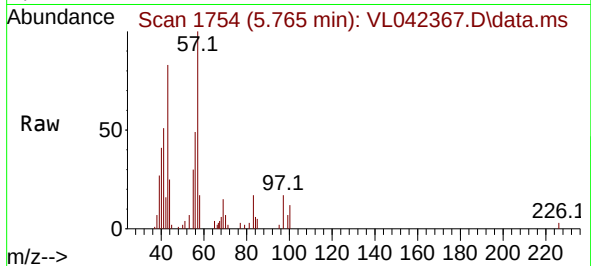




#50
 4-Methyl-2-Pentanone
 Concen: 0.083 ppbv
 RT: 5.765 min Scan# 1
 Delta R.T. 0.013 min
 Lab File: VL042367.D
 Acq: 17 Apr 2025 20:38

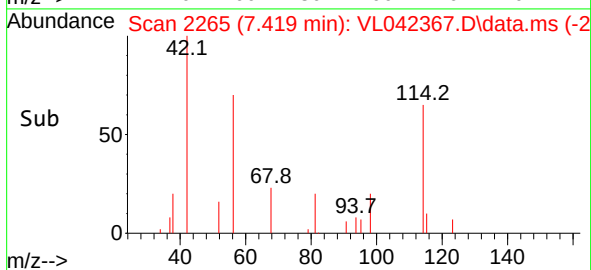
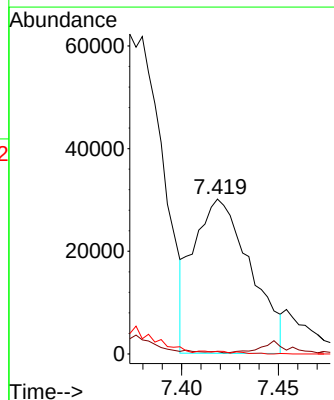
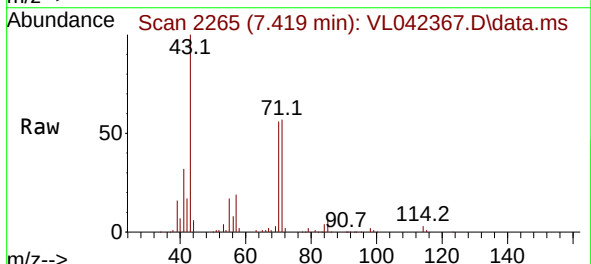
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-6-03312025

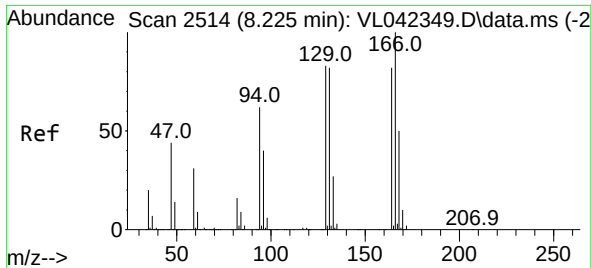
Tgt Ion: 43 Resp: 3640
 Ion Ratio Lower Upper
 43 100
 58 88.1 28.6 43.0#



#51
 2-Hexanone
 Concen: 1.551 ppbv
 RT: 7.419 min Scan# 2265
 Delta R.T. -0.016 min
 Lab File: VL042367.D
 Acq: 17 Apr 2025 20:38

Tgt Ion: 43 Resp: 61300
 Ion Ratio Lower Upper
 43 100
 58 0.0 40.2 60.4#
 98 0.0 0.1 0.1#

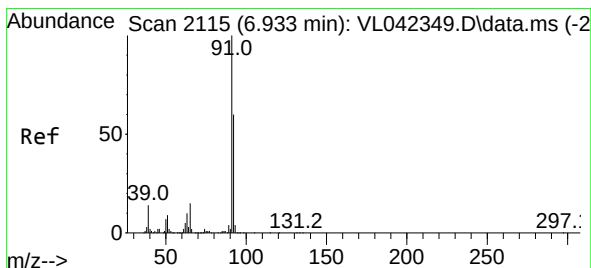
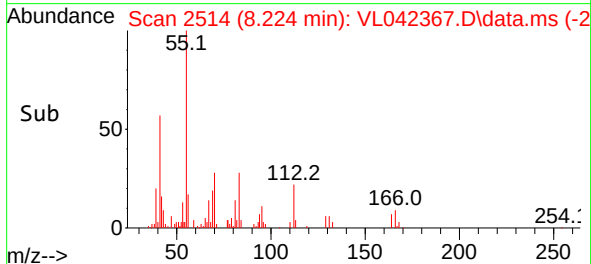
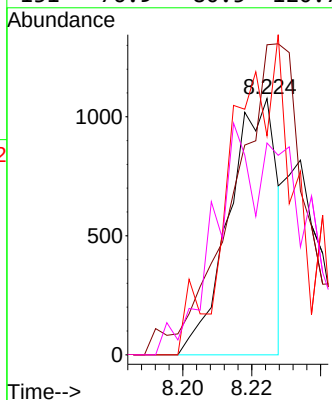
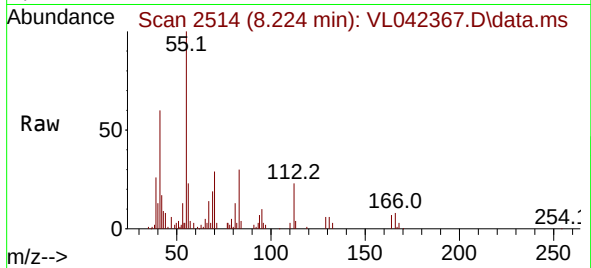




#52
Tetrachloroethene
Concen: 0.074 ppbv
RT: 8.224 min Scan# 2115
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

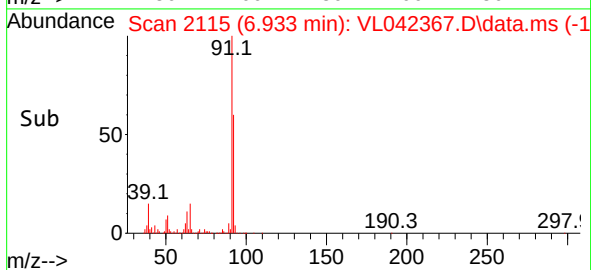
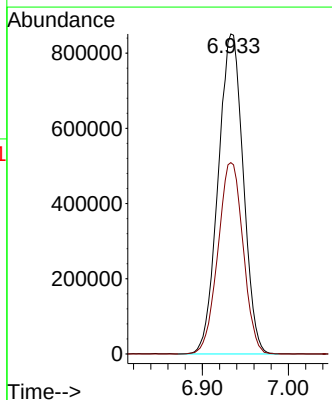
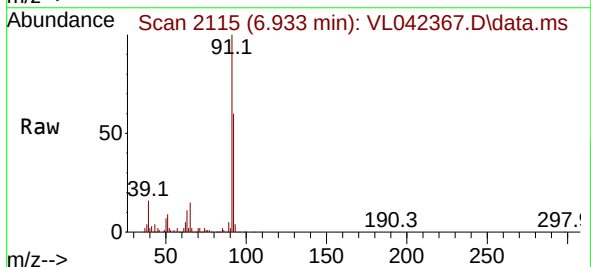
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

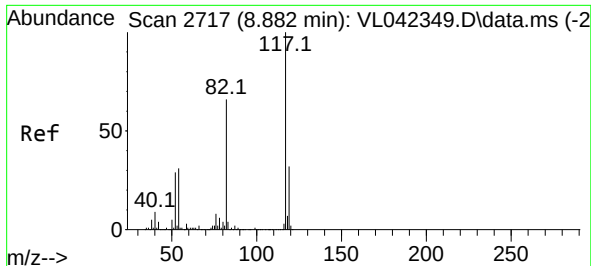
Tgt Ion:164 Resp: 1031
Ion Ratio Lower Upper
164 100
166 112.8 98.2 147.2
129 85.4 81.8 122.8
131 76.9 80.5 120.7#



#53
Toluene
Concen: 39.680 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion: 91 Resp: 1722699
Ion Ratio Lower Upper
91 100
92 60.1 48.2 72.4

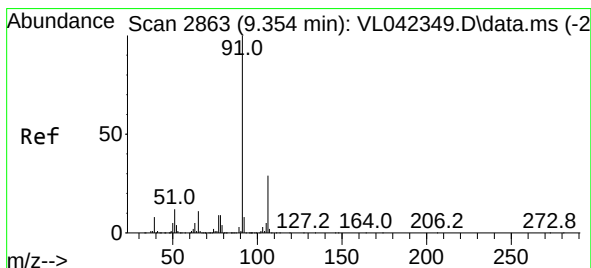
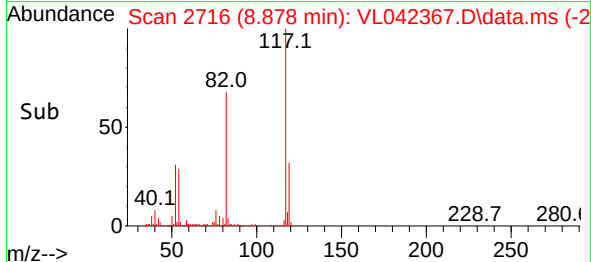
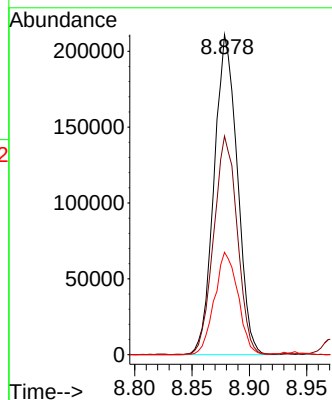
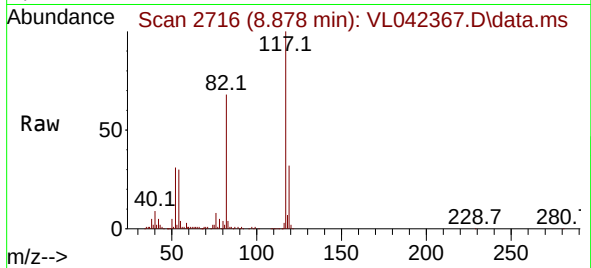




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2176
Delta R.T. -0.003 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

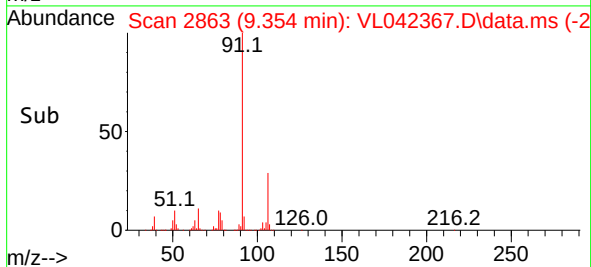
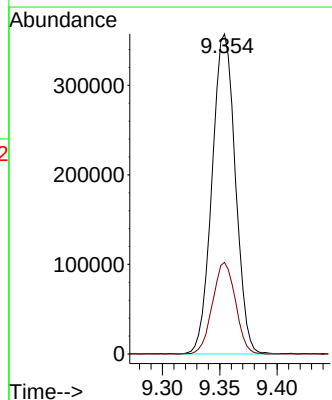
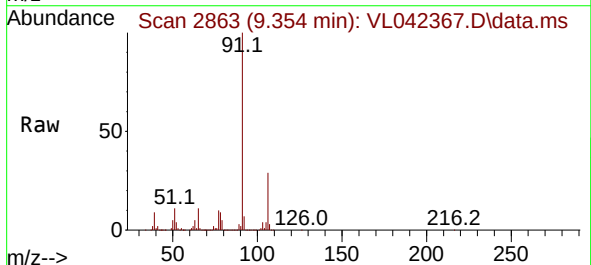
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

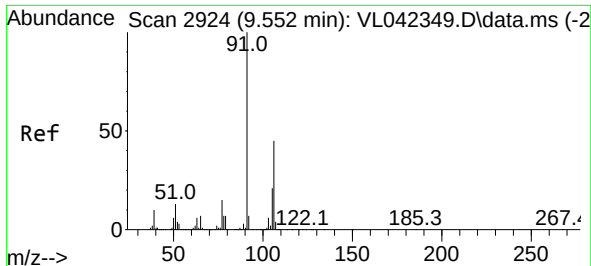
Tgt Ion:117 Resp: 296955
Ion Ratio Lower Upper
117 100
82 69.4 57.8 86.6
119 32.6 25.2 37.8



#58
Ethyl Benzene
Concen: 8.592 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion: 91 Resp: 505495
Ion Ratio Lower Upper
91 100
106 28.6 23.0 34.4





#59

m/p-Xylene

Concen: 29.524 ppbv

RT: 9.529 min Scan# 2917

Delta R.T. -0.023 min

Lab File: VL042367.D

Acq: 17 Apr 2025 20:38

Instrument :

MSVOA_L

ClientSampleId :

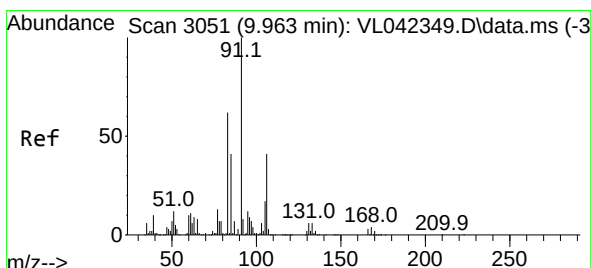
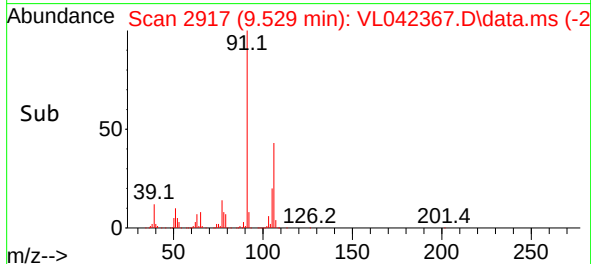
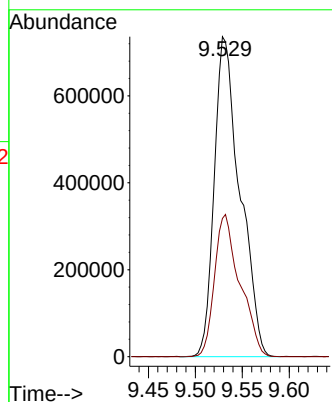
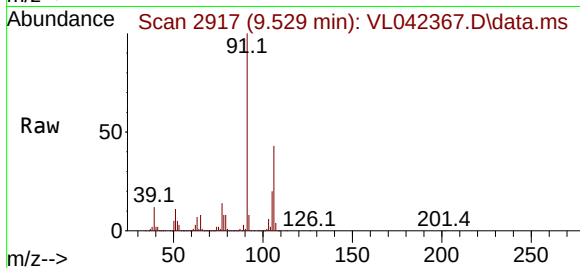
LA-B2-6-03312025

Tgt Ion: 91 Resp: 1399337

Ion Ratio Lower Upper

91 100

106 44.0 35.4 53.2



#60

o-Xylene

Concen: 11.586 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. -0.000 min

Lab File: VL042367.D

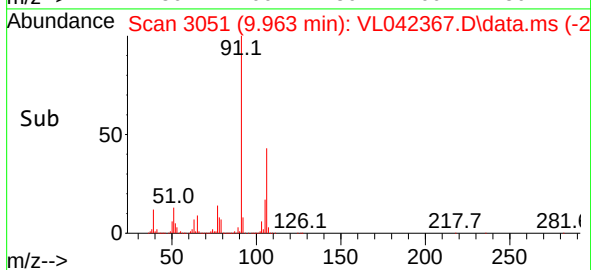
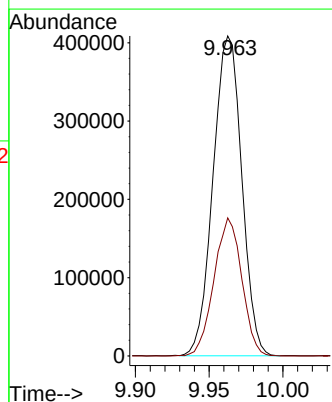
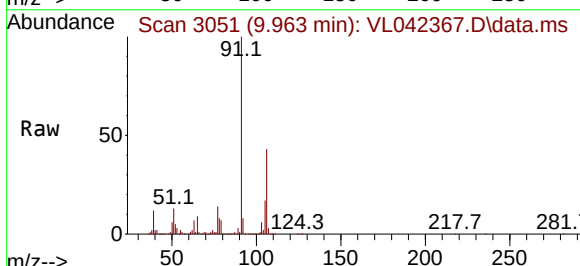
Acq: 17 Apr 2025 20:38

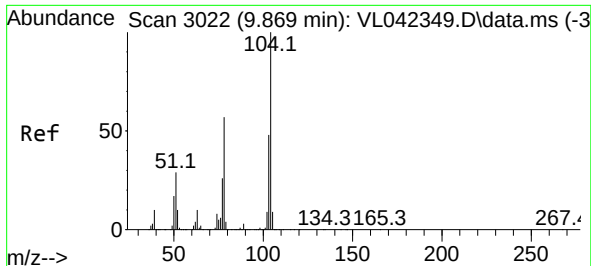
Tgt Ion: 91 Resp: 552991

Ion Ratio Lower Upper

91 100

106 41.8 21.1 63.4

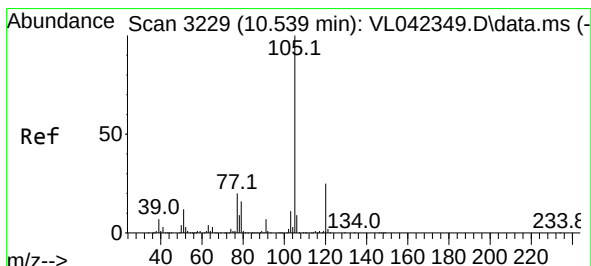
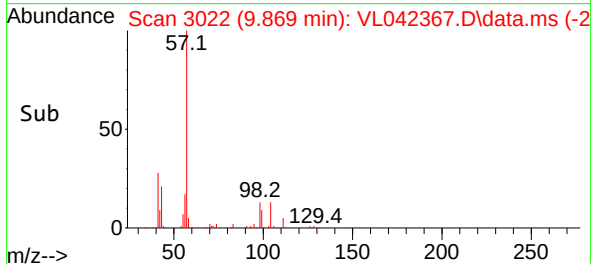
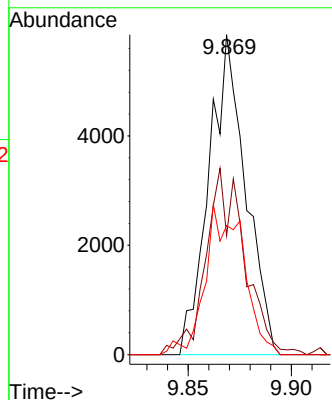
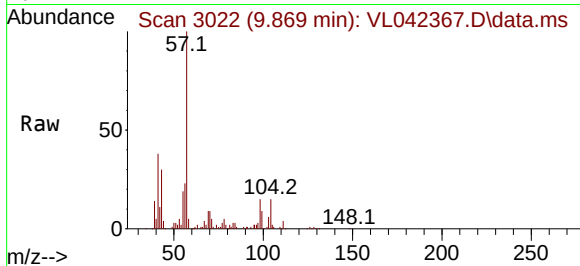




#61
Styrene
Concen: 0.319 ppbv
RT: 9.869 min Scan# 3022
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

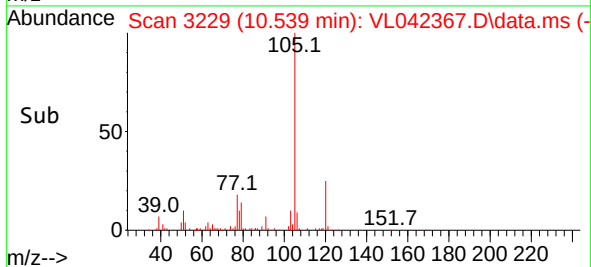
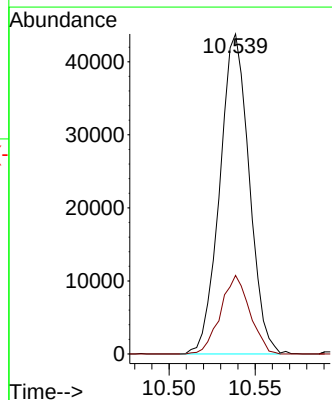
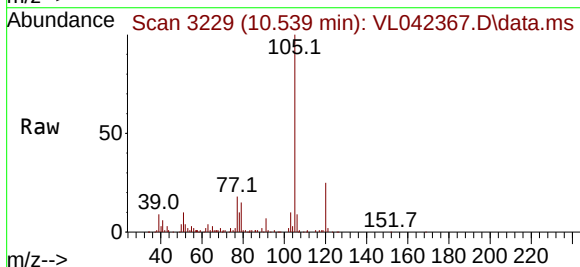
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

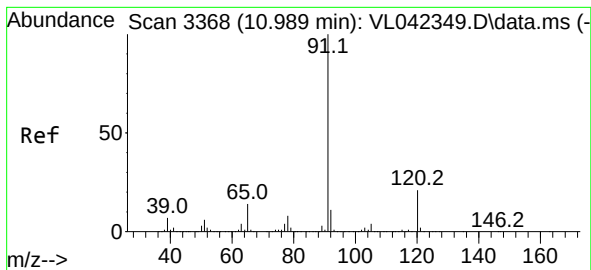
Tgt Ion:104 Resp: 7256
Ion Ratio Lower Upper
104 100
78 60.9 44.6 66.8
103 48.9 37.4 56.0



#62
Isopropylbenzene
Concen: 0.744 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion:105 Resp: 52108
Ion Ratio Lower Upper
105 100
120 24.3 19.8 29.8





#64

n-propylbenzene

Concen: 2.595 ppbv

RT: 10.989 min Scan# 31

Delta R.T. -0.000 min

Lab File: VL042367.D

Acq: 17 Apr 2025 20:38

Instrument :

MSVOA_L

ClientSampleId :

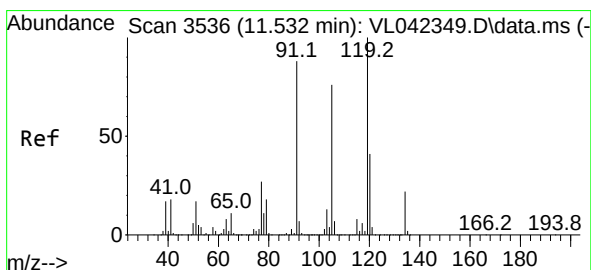
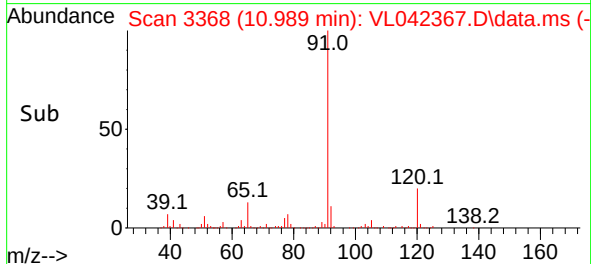
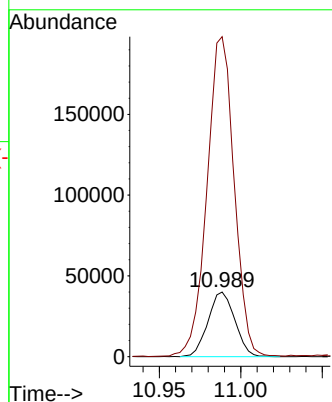
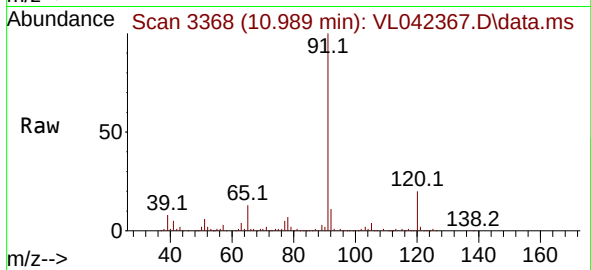
IA-B2-6-03312025

Tgt Ion:120 Resp: 45701

Ion Ratio Lower Upper

120 100

91 503.4 392.4 588.6



#65

tert-Butylbenzene

Concen: 1.515 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. 0.003 min

Lab File: VL042367.D

Acq: 17 Apr 2025 20:38

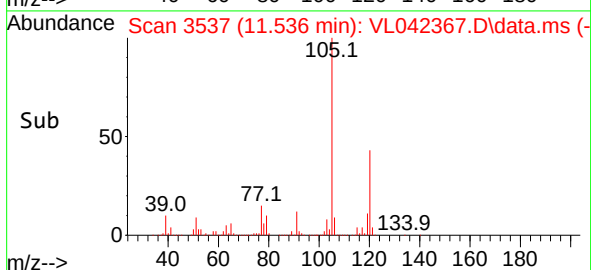
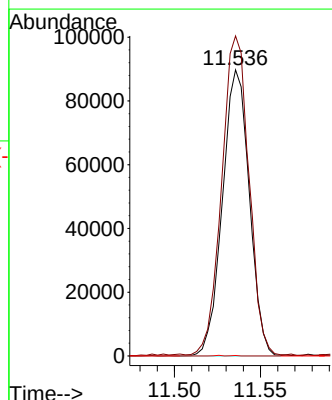
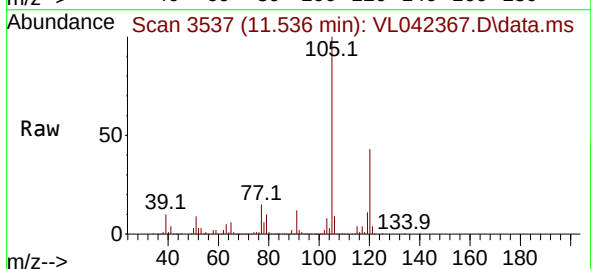
Tgt Ion:119 Resp: 97556

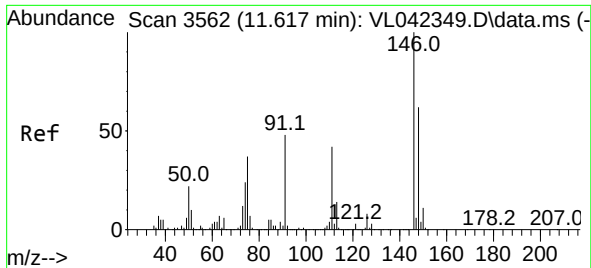
Ion Ratio Lower Upper

119 100

91 113.8 74.6 111.8#

134 0.0 18.8 28.2#

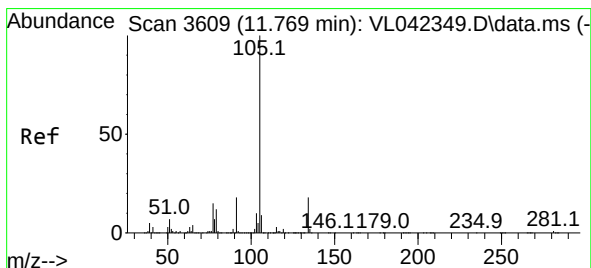
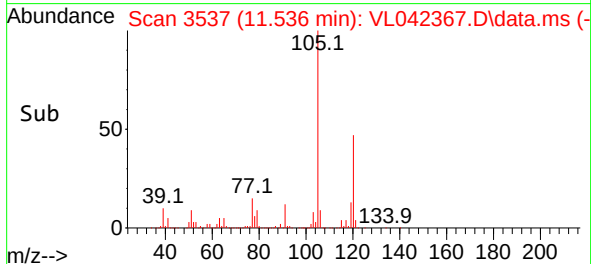
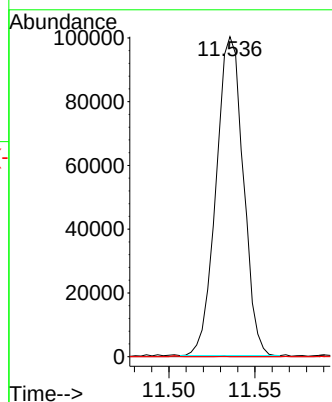
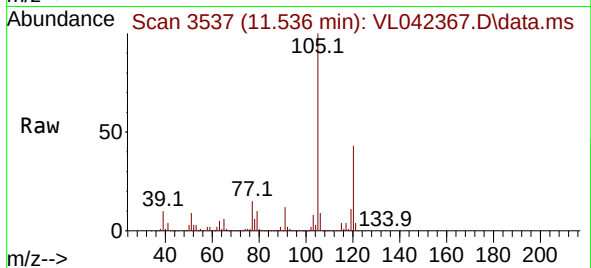




#66
Benzyl Chloride
Concen: 15.509 ppbv
RT: 11.536 min Scan# 31
Delta R.T. -0.081 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

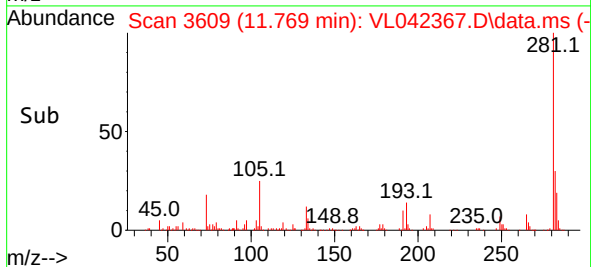
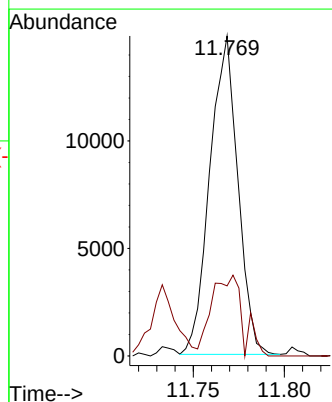
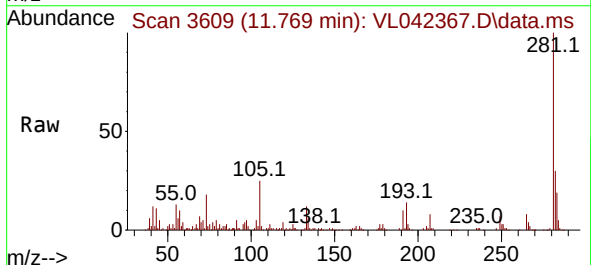
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

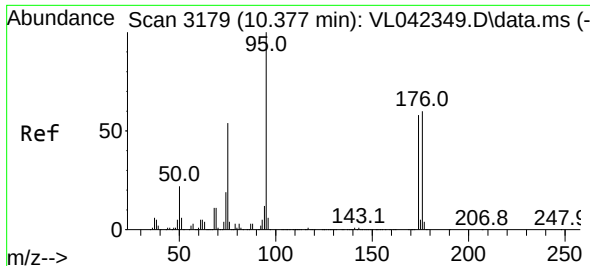
Tgt Ion: 91 Resp: 109757
Ion Ratio Lower Upper
91 100
126 0.0 11.8 17.6#
128 0.0 4.5 6.7#



#67
sec-Butylbenzene
Concen: 0.177 ppbv
RT: 11.769 min Scan# 3609
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion: 105 Resp: 15818
Ion Ratio Lower Upper
105 100
134 28.7 14.6 21.8#

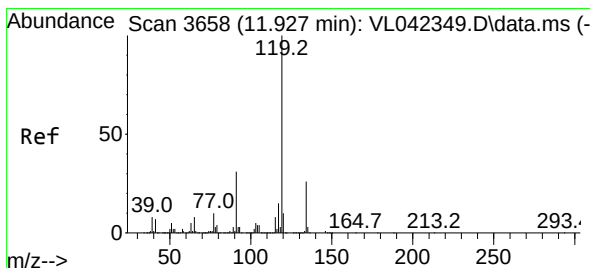
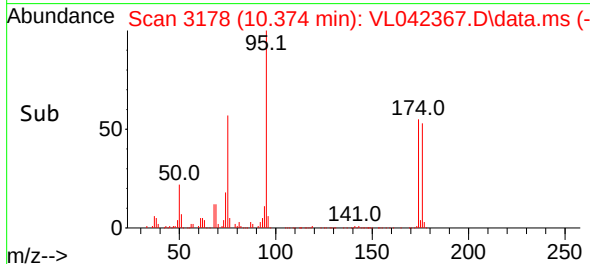
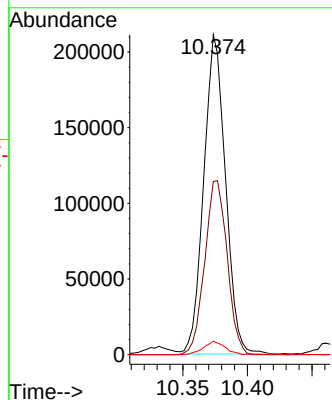
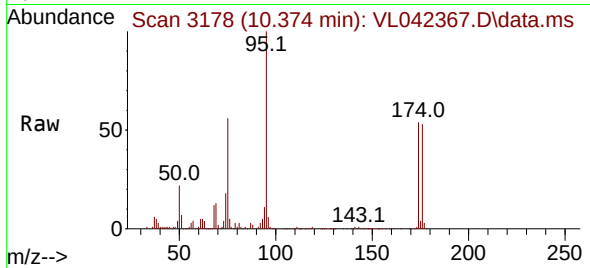




#68
1-Bromo-4-Fluorobenzene
Concen: 10.134 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. -0.003 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

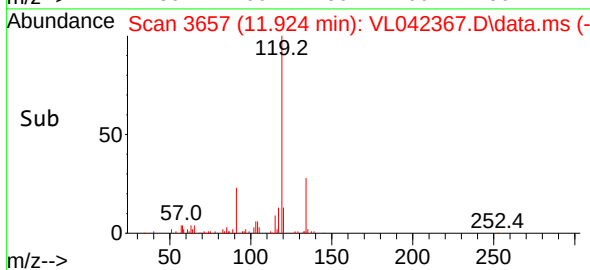
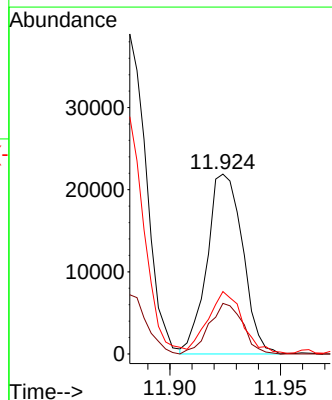
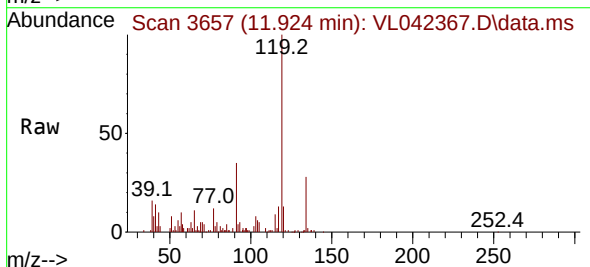
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

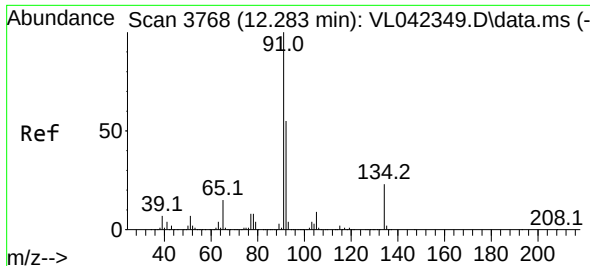
Tgt Ion: 95 Resp: 247280
Ion Ratio Lower Upper
95 100
174 56.3 48.5 72.7
175 4.2 3.7 5.5



#69
p-Isopropyltoluene
Concen: 0.315 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. -0.003 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion: 119 Resp: 24554
Ion Ratio Lower Upper
119 100
134 26.2 20.0 30.0
91 33.6 24.4 36.6

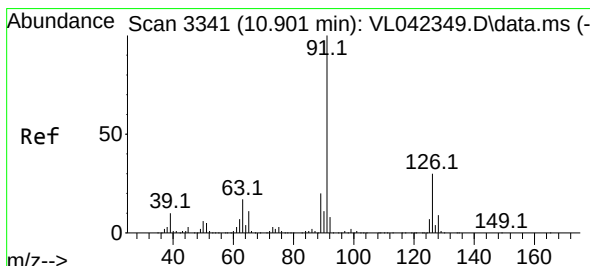
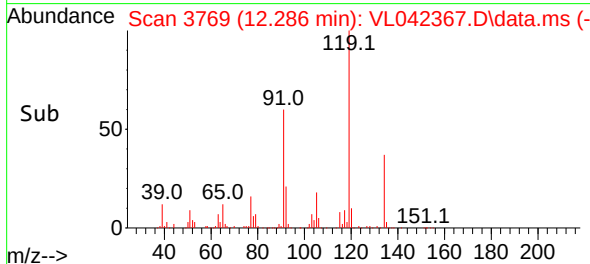
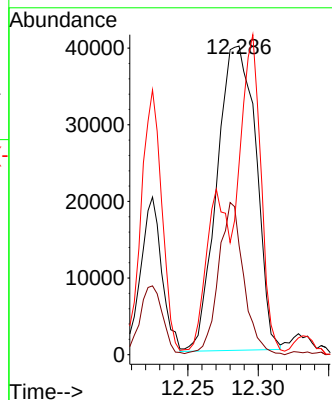
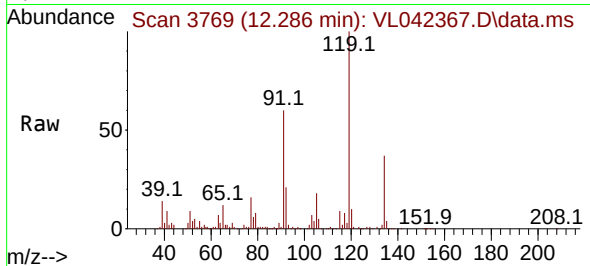




#70
n-Butylbenzene
Concen: 0.940 ppbv
RT: 12.286 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

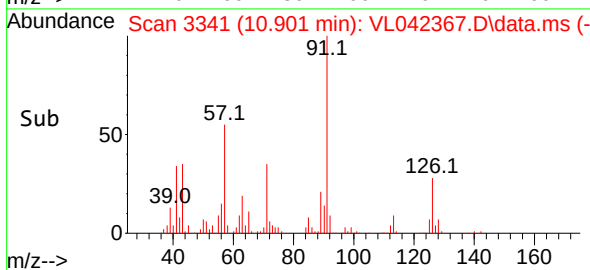
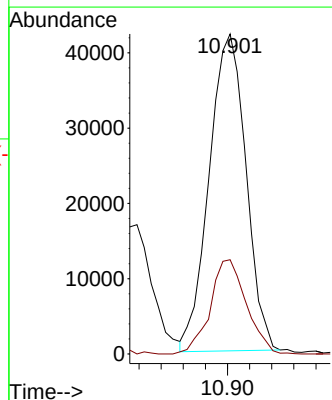
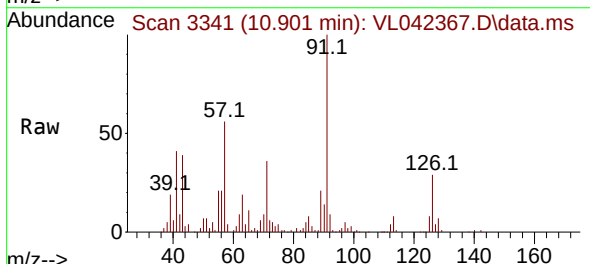
Instrument :
MSVOA_1
ClientSampleId :
IA-B2-6-03312025

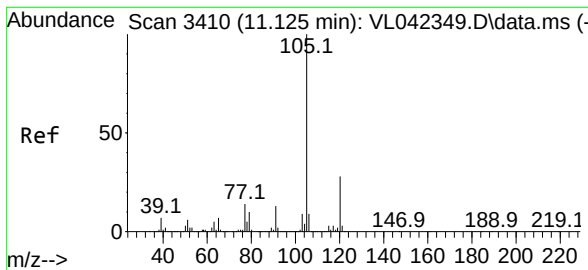
Tgt Ion: 91 Resp: 76213
Ion Ratio Lower Upper
91 100
92 33.3 44.2 66.4#
134 89.1 18.2 27.4#



#71
2-Chlorotoluene
Concen: 0.886 ppbv
RT: 10.901 min Scan# 3341
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion: 91 Resp: 48685
Ion Ratio Lower Upper
91 100
126 29.3 11.4 45.4

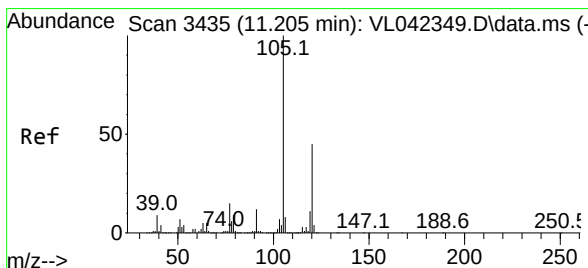
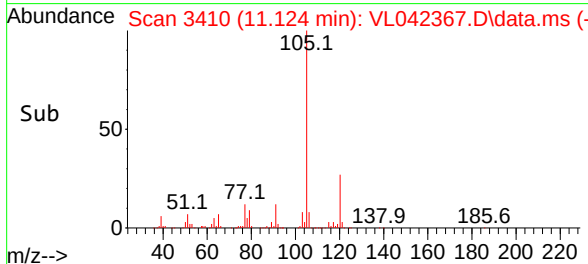
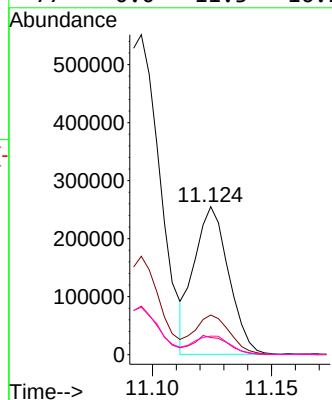
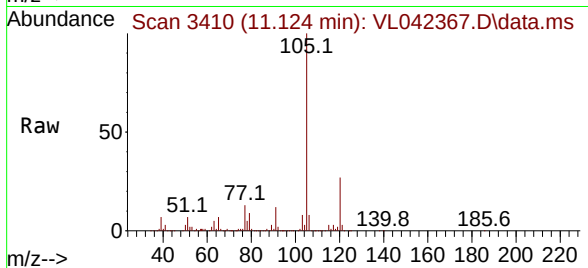




#72
4-Ethyltoluene
Concen: 4.410 ppbv
RT: 11.124 min Scan# 3410
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

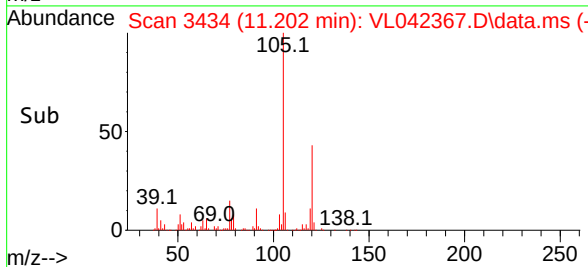
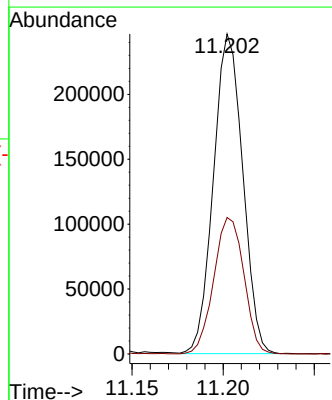
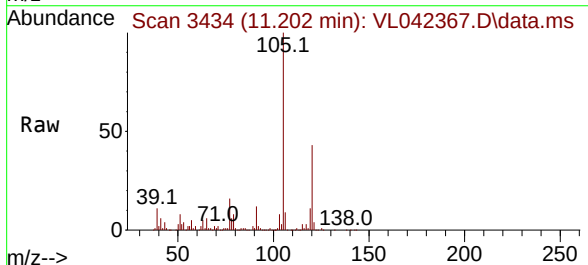
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

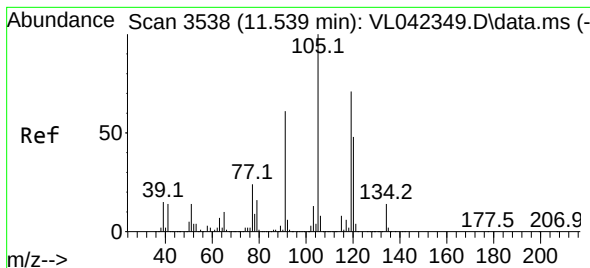
Tgt Ion:105 Resp: 257296
Ion Ratio Lower Upper
105 100
120 0.0 23.2 34.8#
91 0.0 10.4 15.6#
77 0.0 11.3 16.9#



#73
1,3,5-Trimethylbenzene
Concen: 5.343 ppbv
RT: 11.202 min Scan# 3434
Delta R.T. -0.003 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion:105 Resp: 275258
Ion Ratio Lower Upper
105 100
120 42.6 35.6 53.4





#74

1,2,4-Trimethylbenzene

Concen: 14.886 ppbv

RT: 11.536 min Scan# 3538

Delta R.T. -0.003 min

Lab File: VL042367.D

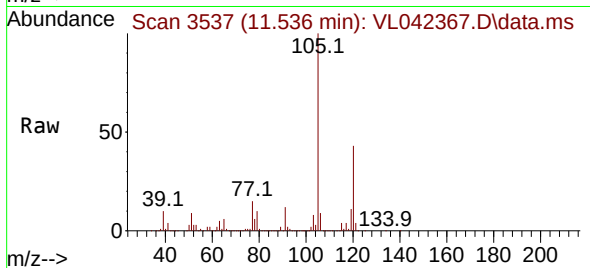
Acq: 17 Apr 2025 20:38

Instrument :

MSVOA_L

ClientSampleId :

IA-B2-6-03312025



Tgt Ion:105 Resp: 895635

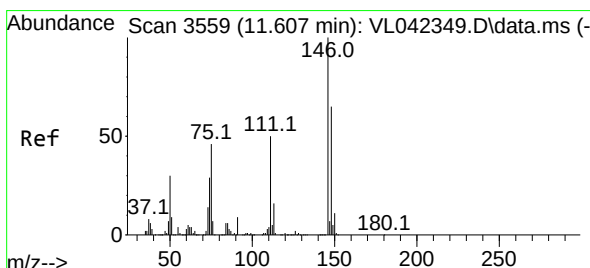
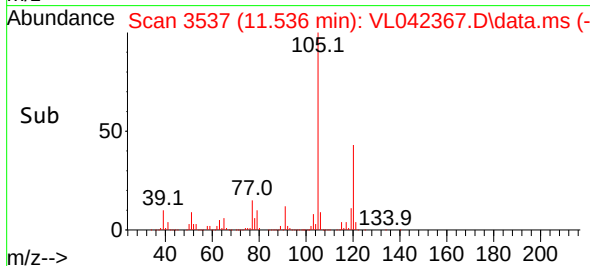
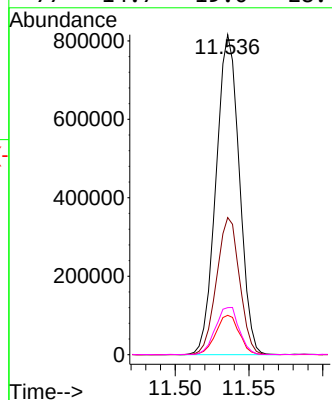
Ion Ratio Lower Upper

105 100

120 42.9 38.1 57.1

91 12.3 48.8 73.2#

77 14.7 19.0 28.4#



#75

1,3-Dichlorobenzene

Concen: 0.222 ppbv

RT: 11.671 min Scan# 3579

Delta R.T. 0.065 min

Lab File: VL042367.D

Acq: 17 Apr 2025 20:38

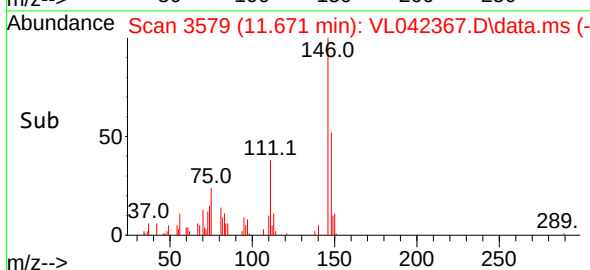
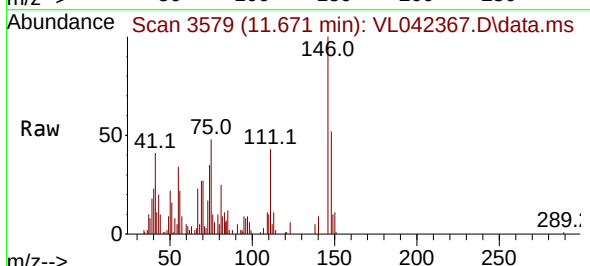
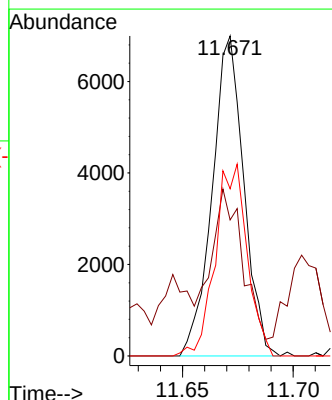
Tgt Ion:146 Resp: 6955

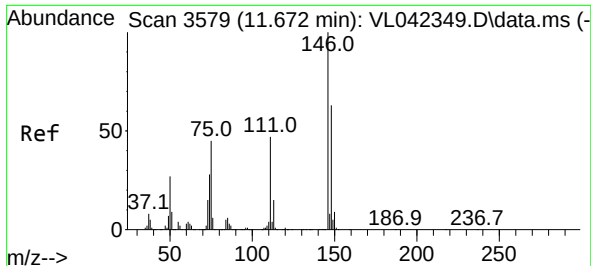
Ion Ratio Lower Upper

146 100

111 71.1 24.3 72.8

148 60.3 31.6 94.8

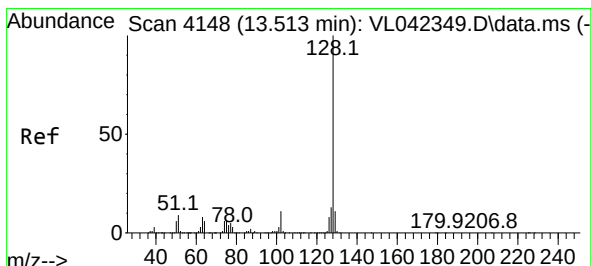
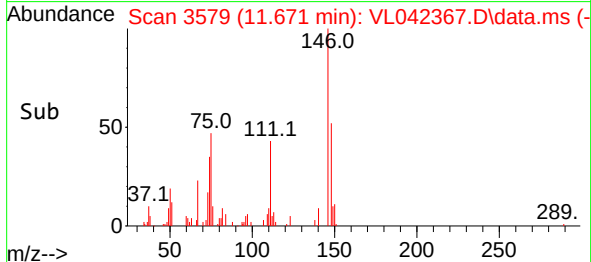
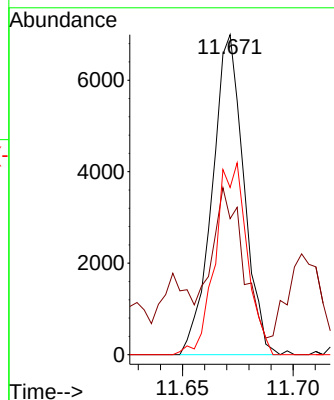
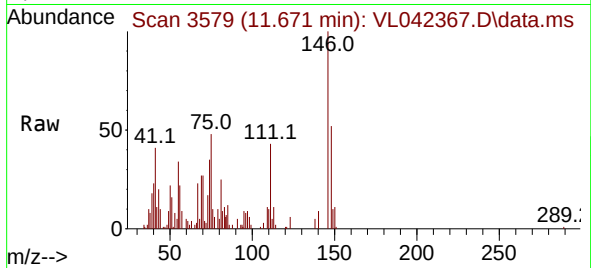




#76
1,4-Dichlorobenzene
Concen: 0.221 ppbv
RT: 11.671 min Scan# 311
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

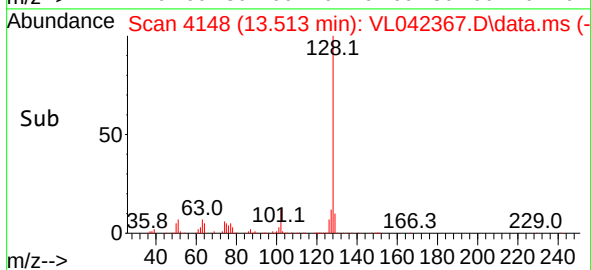
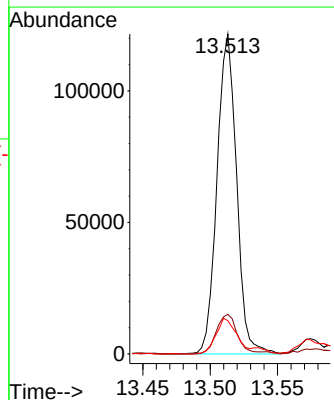
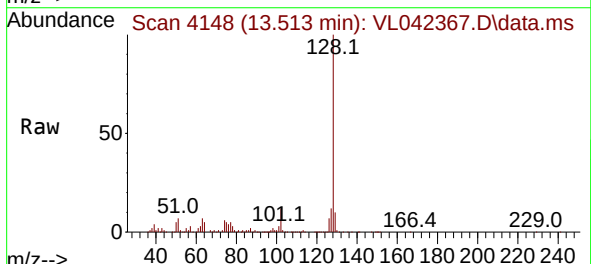
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025

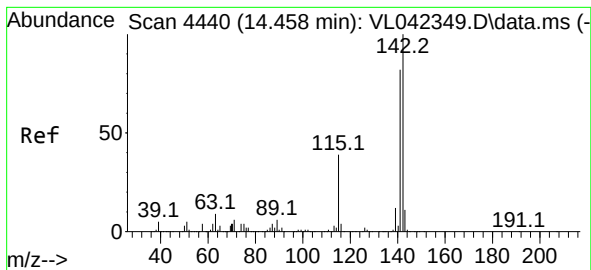
Tgt Ion:146 Resp: 6955
Ion Ratio Lower Upper
146 100
111 92.3 24.2 72.6#
148 60.3 32.1 96.5



#79
Naphthalene
Concen: 1.709 ppbv
RT: 13.513 min Scan# 4148
Delta R.T. -0.000 min
Lab File: VL042367.D
Acq: 17 Apr 2025 20:38

Tgt Ion:128 Resp: 122970
Ion Ratio Lower Upper
128 100
127 12.4 10.6 15.8
129 10.4 8.6 12.8





#80

Naphthalene, 2-methyl-

Concen: 0.769 ppbv

RT: 14.458 min Scan# 44

Delta R.T. -0.000 min

Lab File: VL042367.D

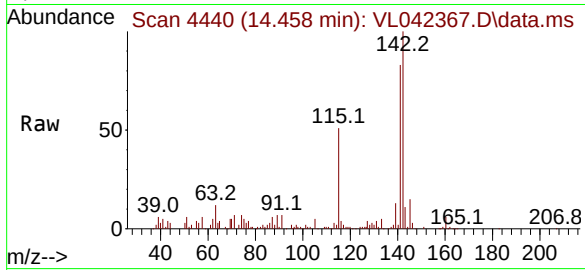
Acq: 17 Apr 2025 20:38

Instrument :

MSVOA_L

ClientSampleId :

IA-B2-6-03312025



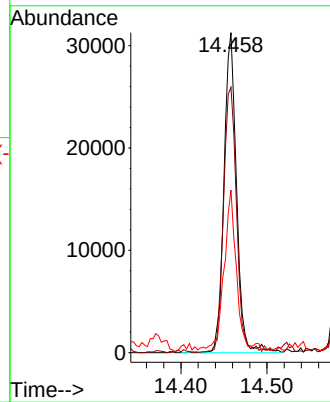
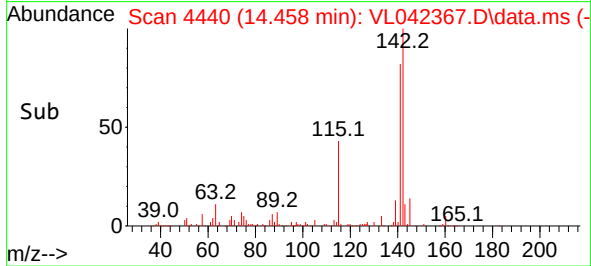
Tgt Ion:142 Resp: 31538

Ion Ratio Lower Upper

142 100

141 87.8 66.8 100.2

115 49.3 33.4 50.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042368.D
 Acq On : 17 Apr 2025 21:12
 Operator : SY/MD
 Sample : Q1726-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-2-03312025

Quant Time: Apr 18 02:43:48 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	119191	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	333003	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	297493	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	243044	9.942	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.400%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	9795	0.465	ppbv	96
3) Chlorodifluoromethane	1.467	51	69957	3.489	ppbv #	62
4) Chloromethane	1.531	50	11453	1.374	ppbv	96
6) Bromomethane	1.671	94	234	0.060	ppbv #	8
7) Chloroethane	1.703	64	346	0.105	ppbv #	85
9) Propene	1.557	41	125014	13.689	ppbv	97
10) Heptane	4.982	43	76723	2.990	ppbv	97
11) Trichlorofluoromethane	1.878	101	4992	0.249	ppbv	88
12) 1,1,2-Trichlorotrifluo...	2.140	101	1393	0.085	ppbv	95
13) Ethanol	1.722	45	334088	230.163	ppbv	75
15) Acetone	1.836	43	3440620	176.335	ppbv #	36
16) 1,3-Butadiene	1.622	39	31987	3.428	ppbv #	17
17) tert-Butyl alcohol	2.276	59	37546	1.553	ppbv	99
19) Isopropyl Alcohol	1.887	45	473769	43.709	ppbv #	33
20) Methylene Chloride	2.062	84	40932	5.357	ppbv	94
21) Allyl Chloride	2.046	41	4879	0.362	ppbv #	22
23) Vinyl Acetate	2.457	43	36701	4.647	ppbv #	91
25) Ethyl Acetate	2.826	43	63042	1.310	ppbv #	86
26) Hexane	2.826	57	82957	4.261	ppbv #	35
27) Carbon Disulfide	2.150	76	919	0.044	ppbv #	42
30) Cyclohexane	3.855	84	15212	0.967	ppbv #	91
34) 2-Butanone	2.561	43	40042	1.520	ppbv	99
35) Carbon Tetrachloride	3.768	117	2143	0.071	ppbv #	67
36) Benzene	3.658	78	32372	0.901	ppbv	98
37) 1,2-Dichloroethane	3.221	62	3461	0.161	ppbv #	96
39) 1,2-Dichloropropane	3.956	63	86880	6.491	ppbv #	22
41) Tetrahydrofuran	3.066	42	4138	0.269	ppbv #	79
44) 2,2,4-Trimethylpentane	4.642	57	521960	8.414	ppbv	96
50) 4-Methyl-2-Pentanone	5.762	43	2346	0.054	ppbv #	1
51) 2-Hexanone	7.442	43	4683	0.119	ppbv #	27
52) Tetrachloroethene	8.234	164	1006	0.072	ppbv #	76
53) Toluene	6.933	91	806485	18.711	ppbv	99
58) Ethyl Benzene	9.358	91	214751	3.643	ppbv	99
59) m/p-Xylene	9.532	91	599749	12.631	ppbv	100
60) o-Xylene	9.966	91	238681	4.992	ppbv	99
61) Styrene	9.875	104	9022	0.395	ppbv	95
62) Isopropylbenzene	10.539	105	23690	0.337	ppbv	96
64) n-propylbenzene	10.989	120	18420	1.044	ppbv	85
65) tert-Butylbenzene	11.539	119	37957	0.588	ppbv #	71
66) Benzyl Chloride	11.539	91	43222	6.096	ppbv #	74
67) sec-Butylbenzene	11.766	105	8800	0.098	ppbv #	50
69) p-Isopropyltoluene	11.928	119	14319	0.184	ppbv	96
70) n-Butylbenzene	12.280	91	19345	0.238	ppbv #	82

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042368.D
 Acq On : 17 Apr 2025 21:12
 Operator : SY/MD
 Sample : Q1726-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-2-03312025

Quant Time: Apr 18 02:43:48 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

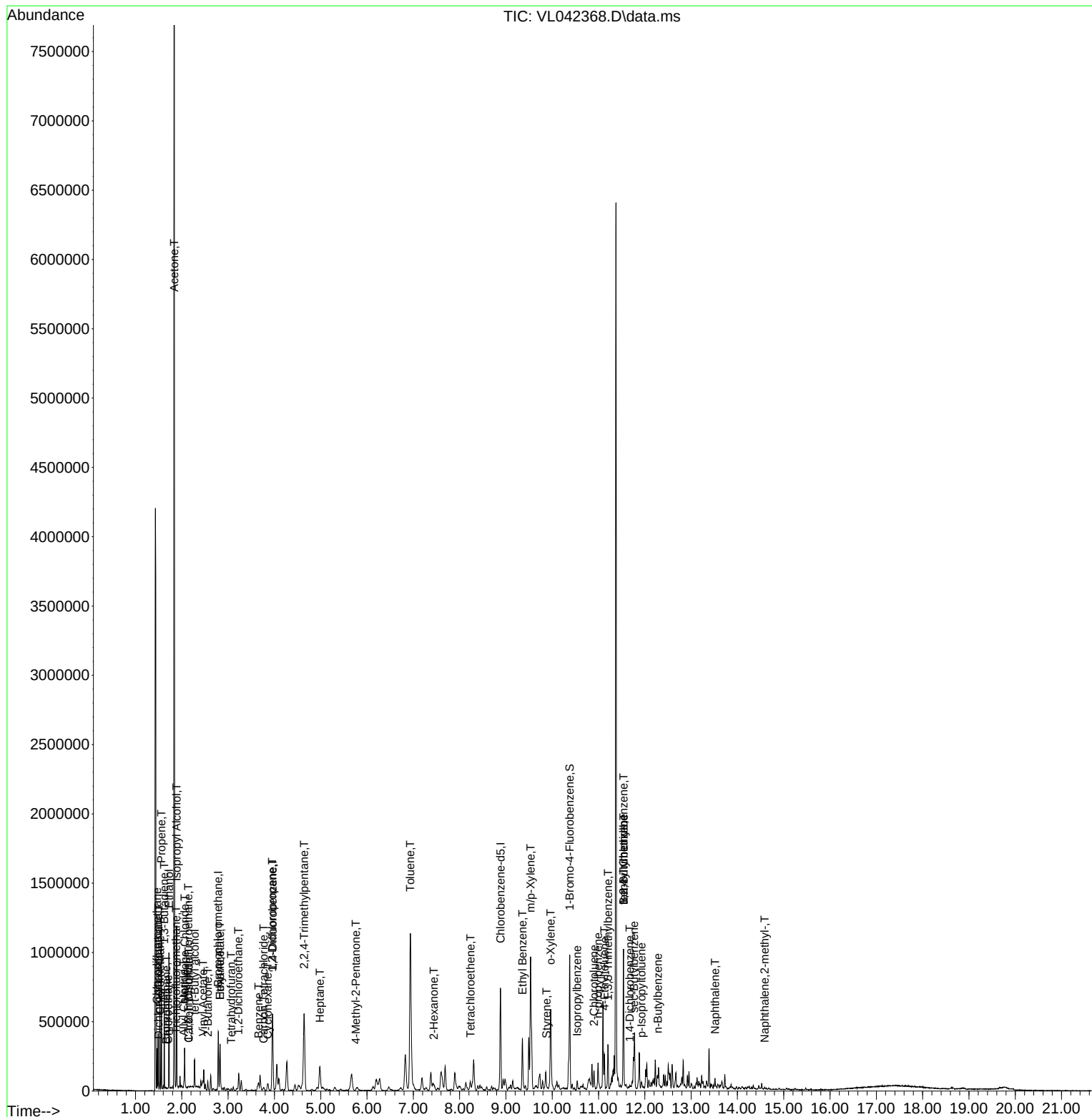
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
71) 2-Chlorotoluene	10.905	91	28490	0.517	ppbv	99
72) 4-Ethyltoluene	11.128	105	107491	1.839	ppbv #	56
73) 1,3,5-Trimethylbenzene	11.206	105	109907	2.130	ppbv	95
74) 1,2,4-Trimethylbenzene	11.539	105	349266	5.794	ppbv #	64
76) 1,4-Dichlorobenzene	11.672	146	3251	0.103	ppbv	93
79) Naphthalene	13.517	128	30244	0.420	ppbv	99
80) Naphthalene,2-methyl-	14.588	142	4067	0.099	ppbv	96

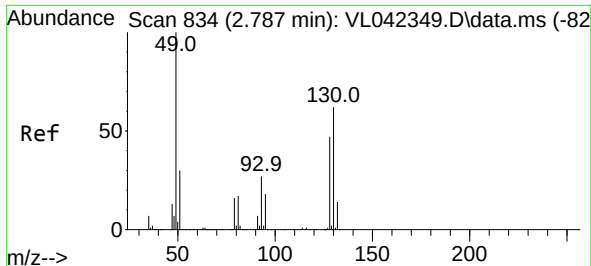
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042368.D
Acq On : 17 Apr 2025 21:12
Operator : SY/MD
Sample : Q1726-03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

Quant Time: Apr 18 02:43:48 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

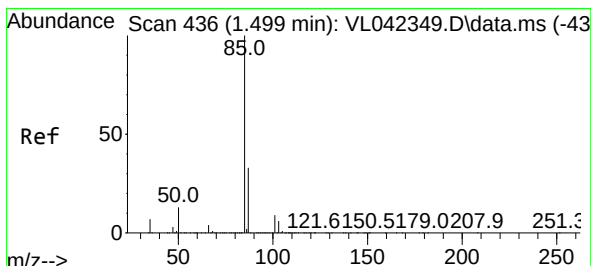
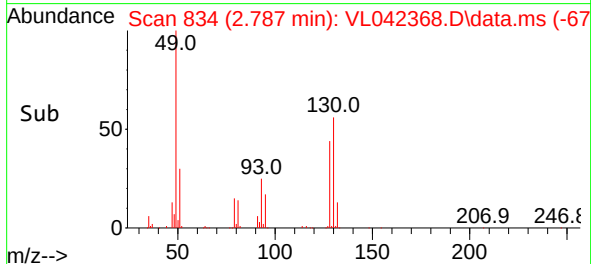
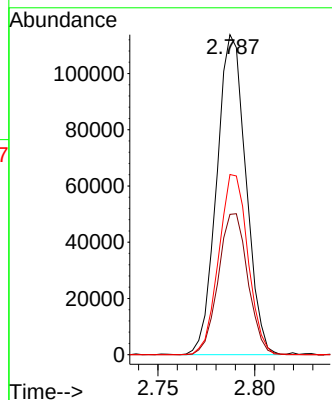
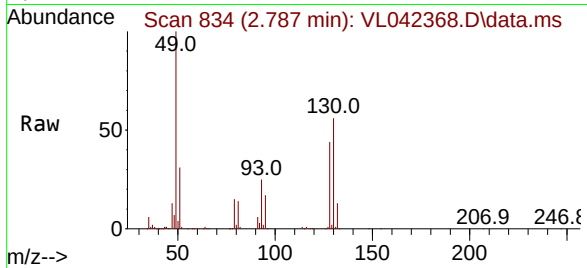




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.787 min Scan# 81
 Delta R.T. 0.000 min
 Lab File: VL042368.D
 Acq: 17 Apr 2025 21:12

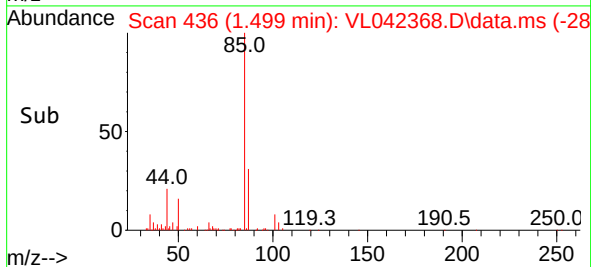
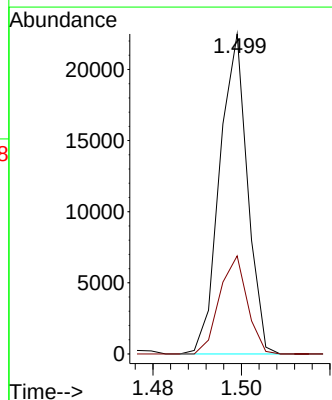
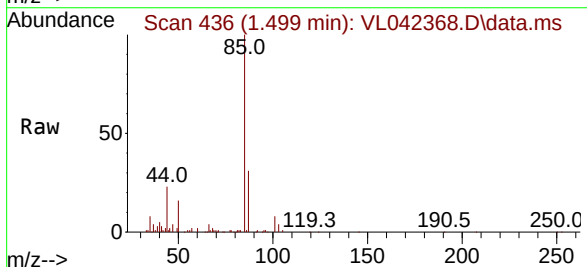
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-2-03312025

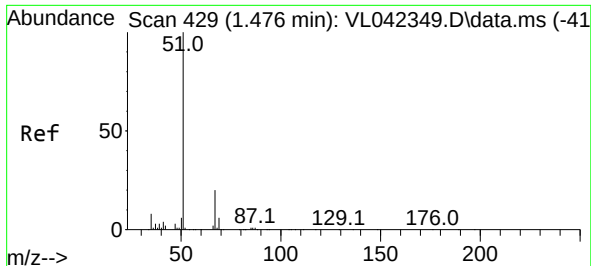
Tgt Ion: 49 Resp: 119191
 Ion Ratio Lower Upper
 49 100
 128 44.4 22.8 68.4
 130 56.2 29.3 88.0



#2
 Dichlorodifluoromethane
 Concen: 0.465 ppbv
 RT: 1.499 min Scan# 436
 Delta R.T. 0.000 min
 Lab File: VL042368.D
 Acq: 17 Apr 2025 21:12

Tgt Ion: 85 Resp: 9795
 Ion Ratio Lower Upper
 85 100
 87 30.7 26.6 39.8

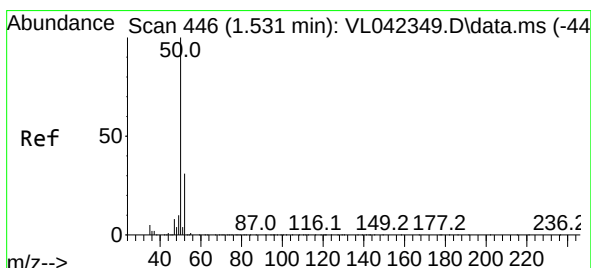
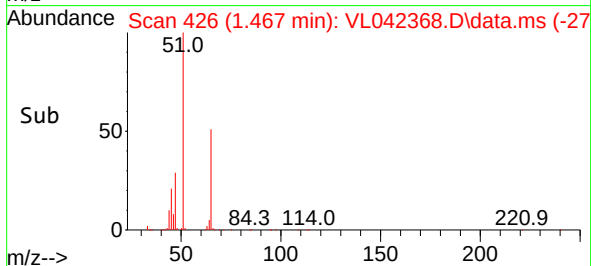
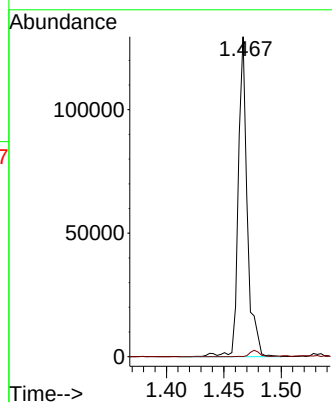
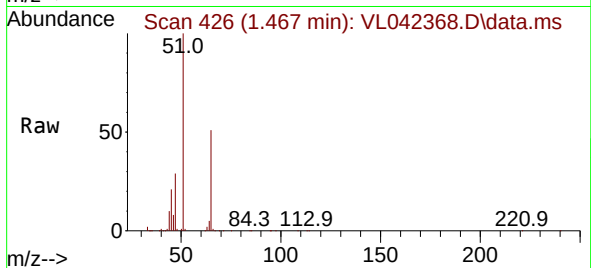




#3
Chlorodifluoromethane
Concen: 3.489 ppbv
RT: 1.467 min Scan# 41
Delta R.T. -0.009 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

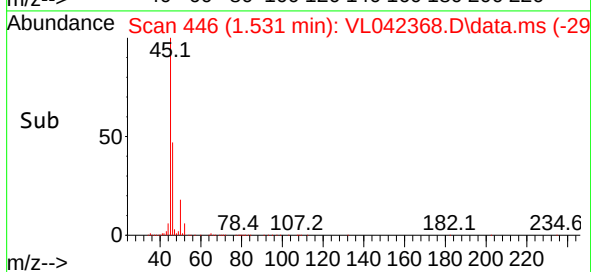
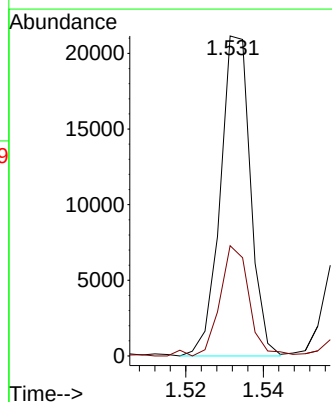
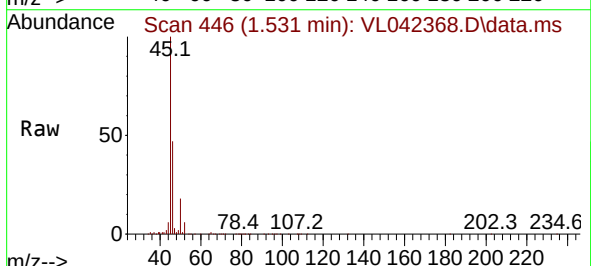
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

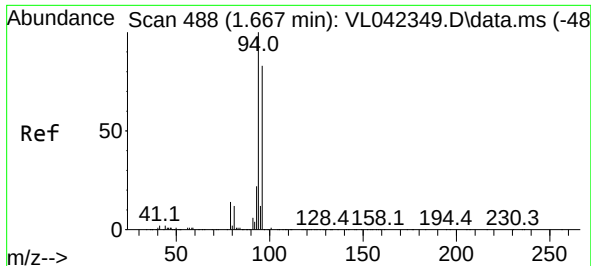
Tgt Ion: 51 Resp: 69957
Ion Ratio Lower Upper
51 100
67 2.6 16.2 24.4#



#4
Chloromethane
Concen: 1.374 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion: 50 Resp: 11453
Ion Ratio Lower Upper
50 100
52 33.2 24.7 37.1

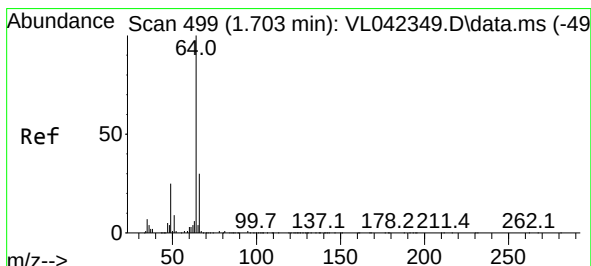
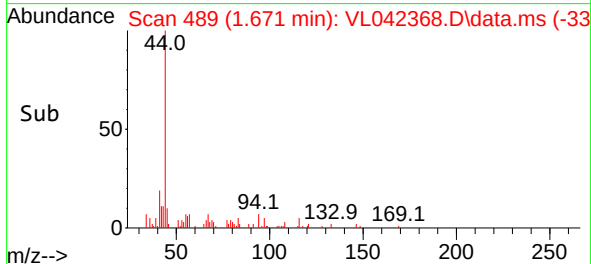
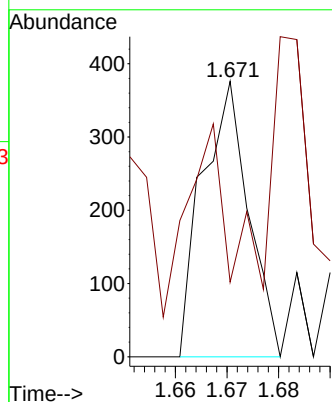
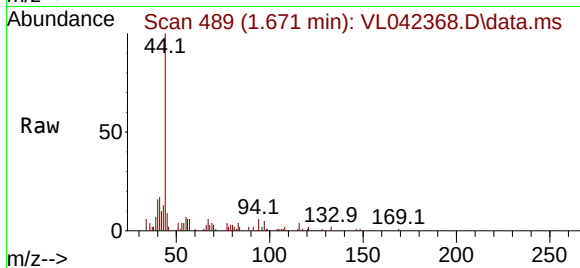




#6
Bromomethane
Concen: 0.060 ppbv
RT: 1.671 min Scan# 489
Delta R.T. 0.004 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

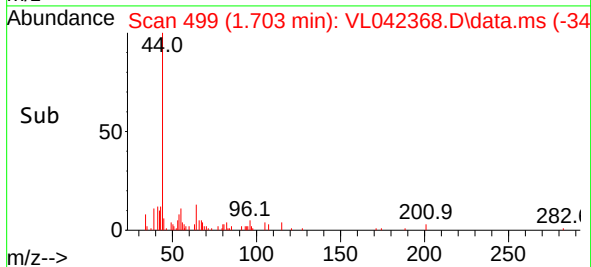
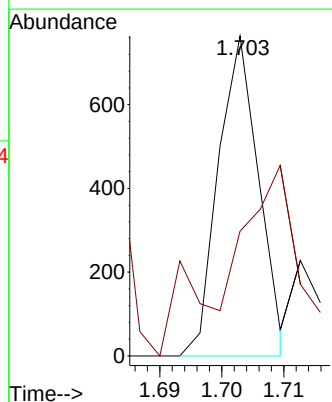
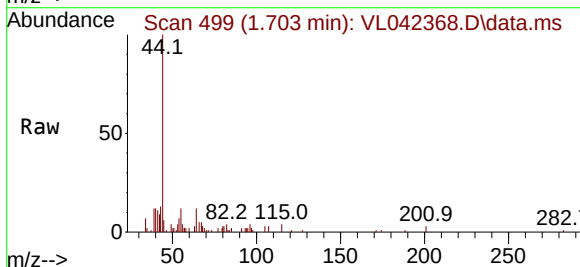
Instrument :
MSVOA_1
ClientSampleId :
IA-B2-2-03312025

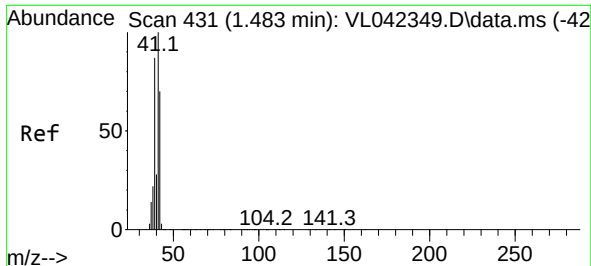
Tgt Ion: 94 Resp: 234
Ion Ratio Lower Upper
94 100
96 0.0 66.2 99.2#



#7
Chloroethane
Concen: 0.105 ppbv
RT: 1.703 min Scan# 499
Delta R.T. 0.000 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion: 64 Resp: 346
Ion Ratio Lower Upper
64 100
66 39.0 24.6 37.0#





#9

Propene

Concen: 13.689 ppbv

RT: 1.557 min Scan# 41

Delta R.T. 0.075 min

Lab File: VL042368.D

Acq: 17 Apr 2025 21:12

Instrument :

MSVOA_L

ClientSampleId :

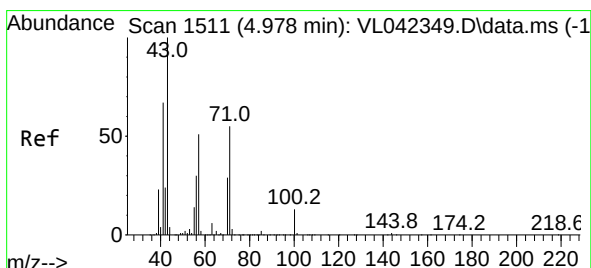
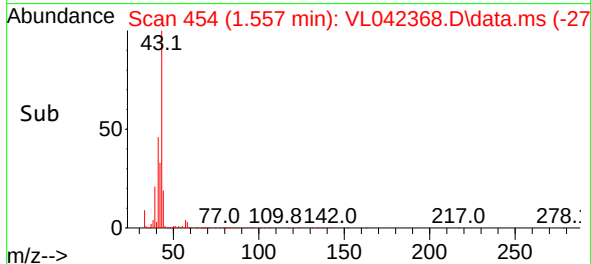
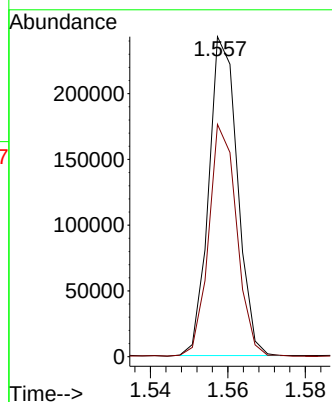
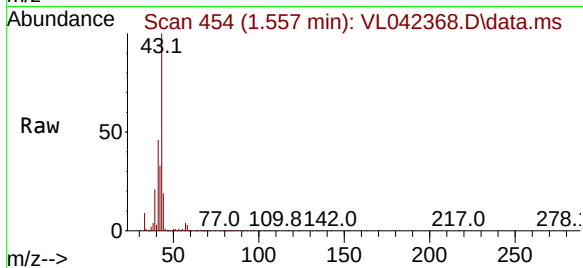
IA-B2-2-03312025

Tgt Ion: 41 Resp: 125014

Ion Ratio Lower Upper

41 100

42 72.6 56.2 84.4



#10

Heptane

Concen: 2.990 ppbv

RT: 4.982 min Scan# 1512

Delta R.T. 0.004 min

Lab File: VL042368.D

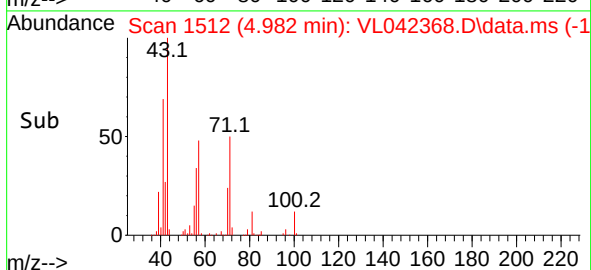
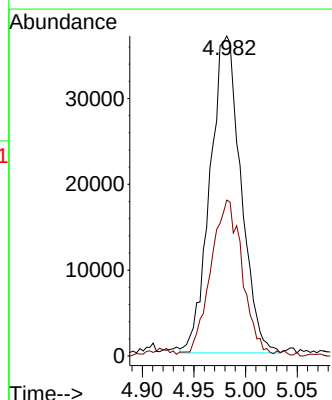
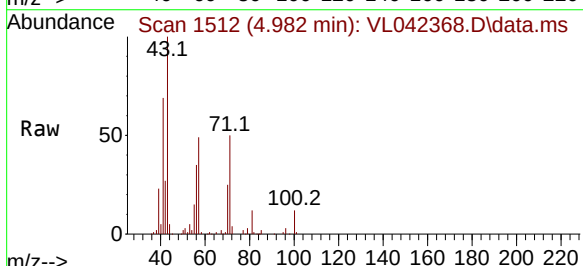
Acq: 17 Apr 2025 21:12

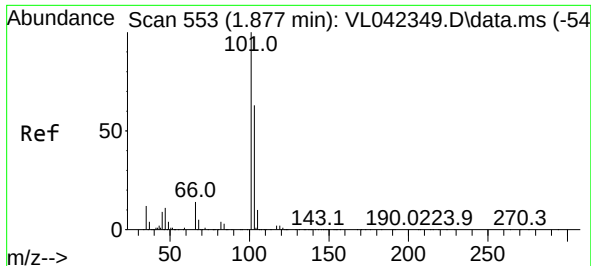
Tgt Ion: 43 Resp: 76723

Ion Ratio Lower Upper

43 100

57 51.7 39.9 59.9

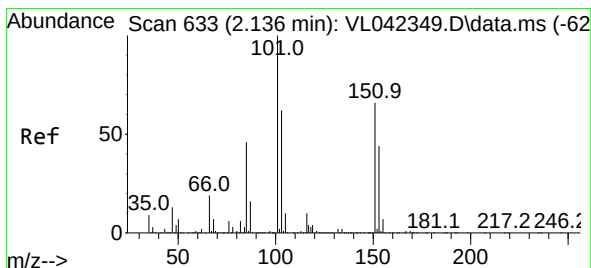
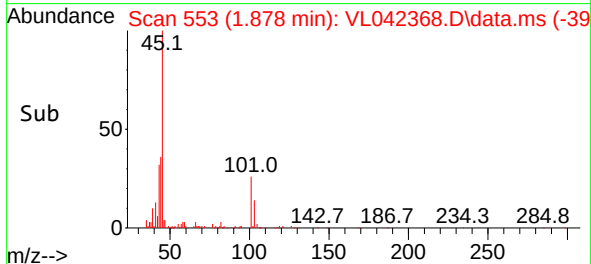
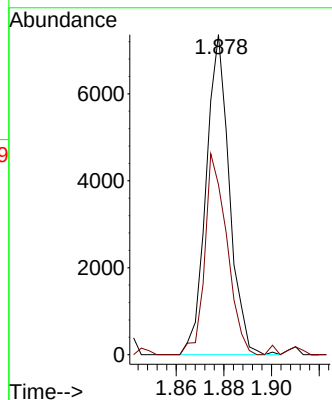
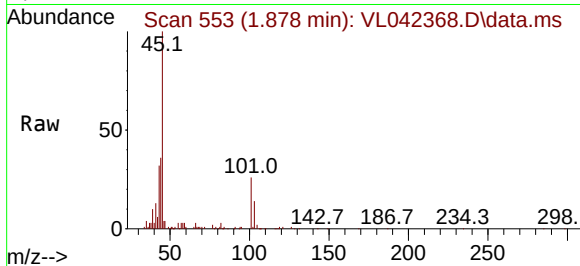




#11
 Trichlorofluoromethane
 Concen: 0.249 ppbv
 RT: 1.878 min Scan# 511
 Delta R.T. 0.000 min
 Lab File: VL042368.D
 Acq: 17 Apr 2025 21:12

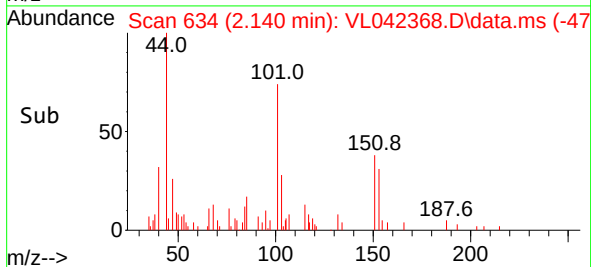
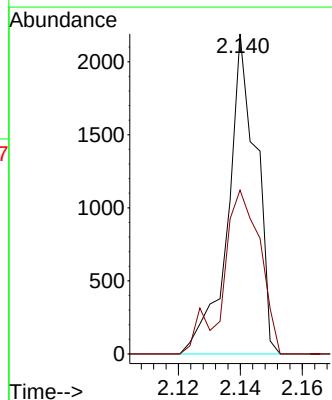
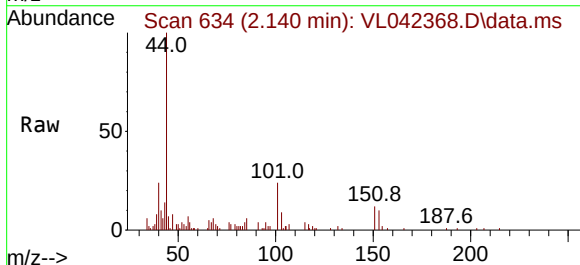
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-2-03312025

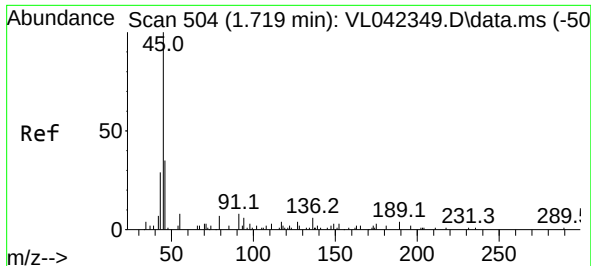
Tgt Ion:101 Resp: 4992
 Ion Ratio Lower Upper
 101 100
 103 53.2 50.1 75.1



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.085 ppbv
 RT: 2.140 min Scan# 634
 Delta R.T. 0.004 min
 Lab File: VL042368.D
 Acq: 17 Apr 2025 21:12

Tgt Ion:101 Resp: 1393
 Ion Ratio Lower Upper
 101 100
 151 67.3 57.0 85.6

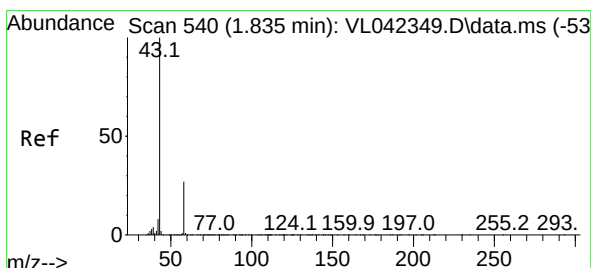
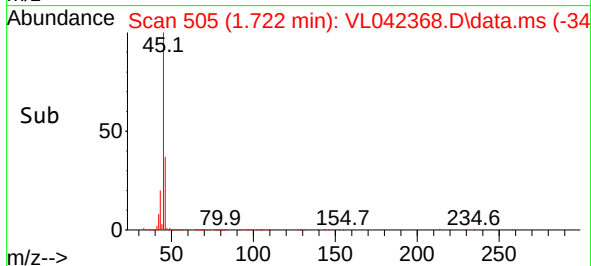
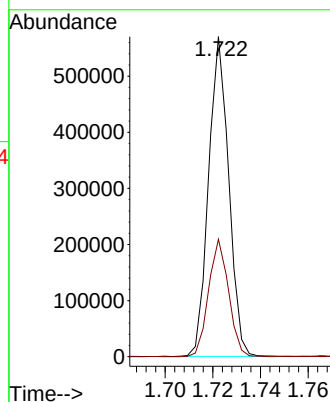
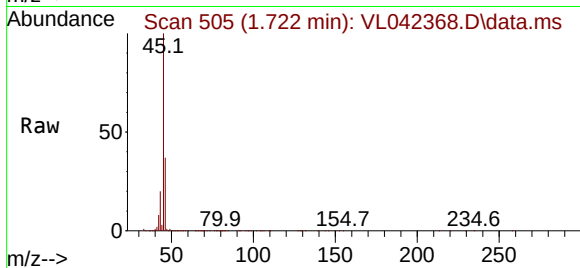




#13
Ethanol
Concen: 230.163 ppbv
RT: 1.722 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

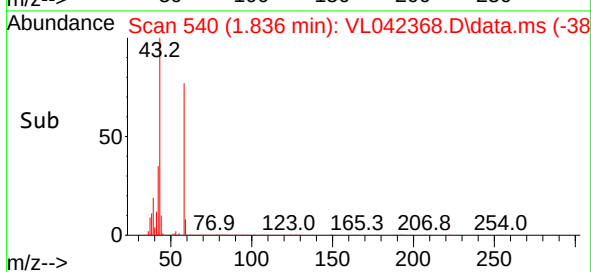
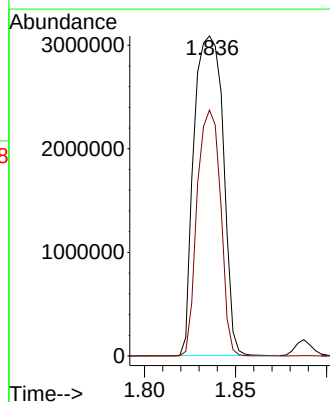
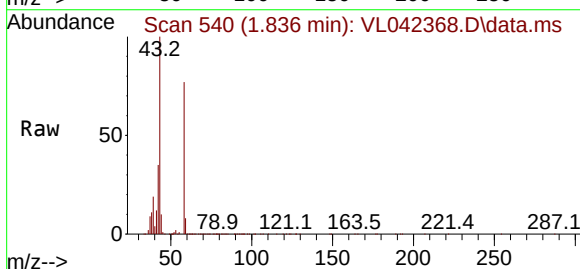
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

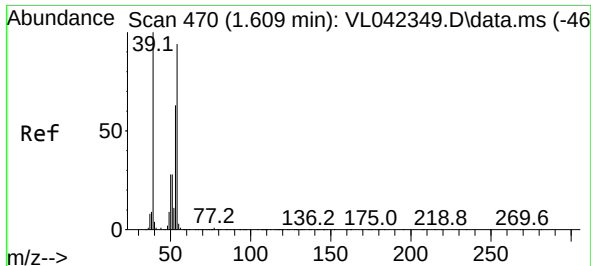
Tgt Ion: 45 Resp: 334088
Ion Ratio Lower Upper
45 100
46 36.9 21.9 87.7



#15
Acetone
Concen: 176.335 ppbv
RT: 1.836 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion: 43 Resp: 3440620
Ion Ratio Lower Upper
43 100
58 61.6 22.4 33.6#





#16

1,3-Butadiene

Concen: 3.428 ppbv

RT: 1.622 min Scan# 41

Delta R.T. 0.013 min

Lab File: VL042368.D

Acq: 17 Apr 2025 21:12

Instrument :

MSVOA_L

ClientSampleId :

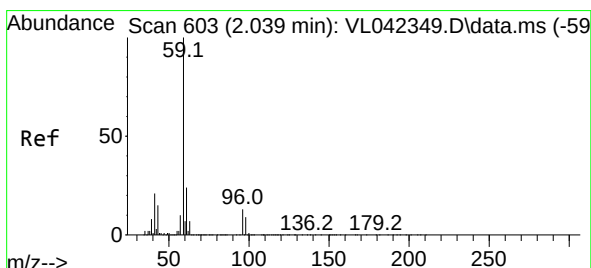
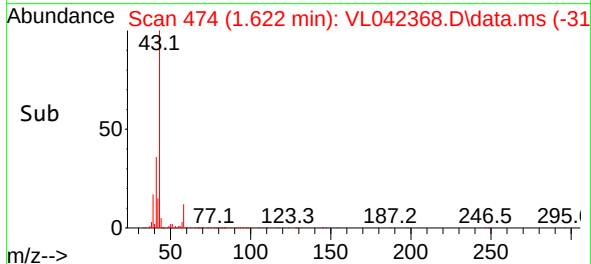
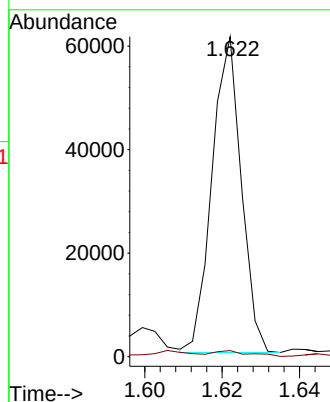
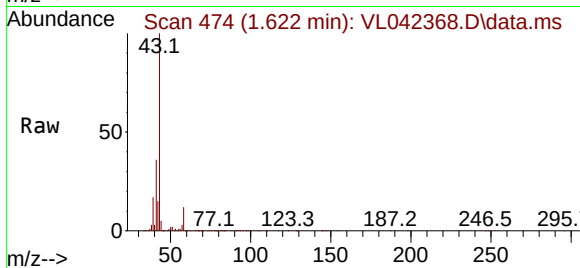
IA-B2-2-03312025

Tgt Ion: 39 Resp: 31987

Ion Ratio Lower Upper

39 100

54 7.2 64.9 97.3#



#17

tert-Butyl alcohol

Concen: 1.553 ppbv

RT: 2.276 min Scan# 676

Delta R.T. 0.237 min

Lab File: VL042368.D

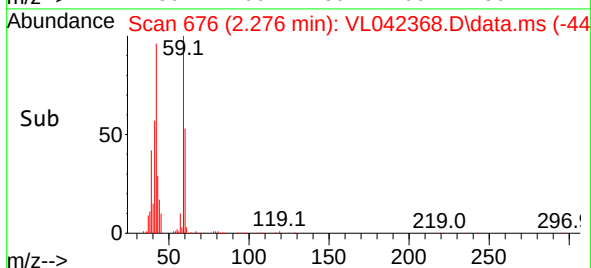
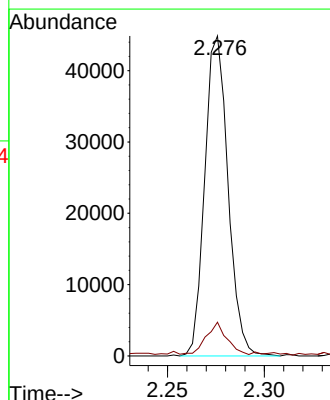
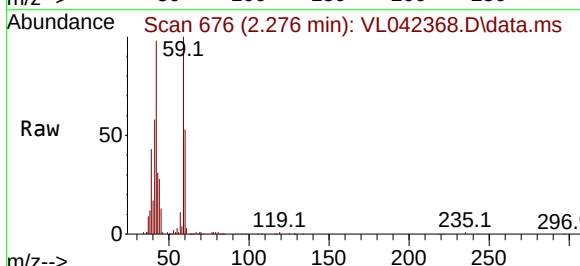
Acq: 17 Apr 2025 21:12

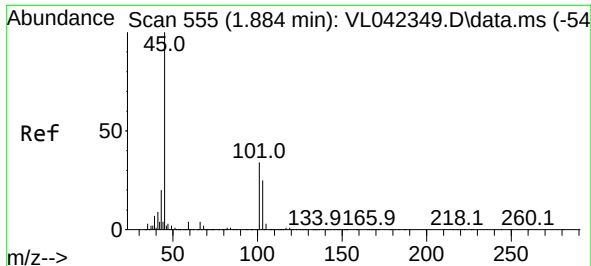
Tgt Ion: 59 Resp: 37546

Ion Ratio Lower Upper

59 100

57 11.2 8.7 13.1

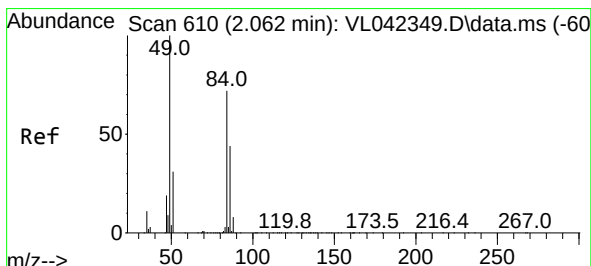
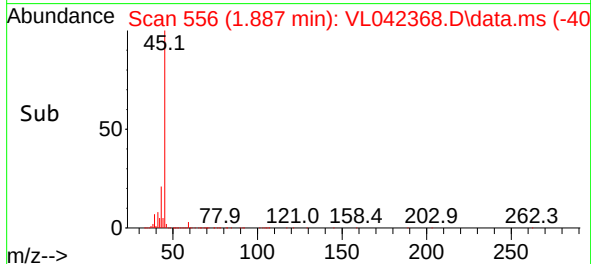
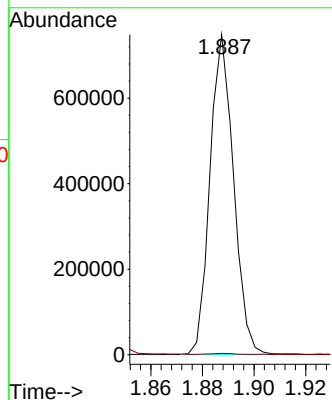
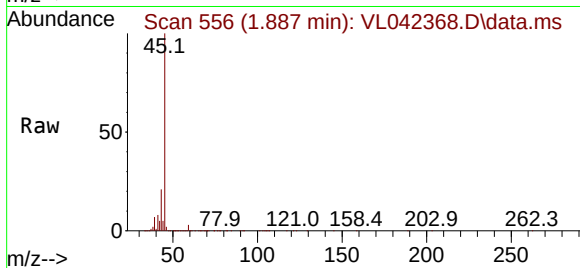




#19
Isopropyl Alcohol
Concen: 43.709 ppbv
RT: 1.887 min Scan# 51
Delta R.T. 0.004 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

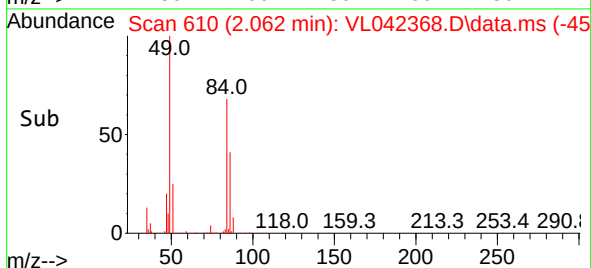
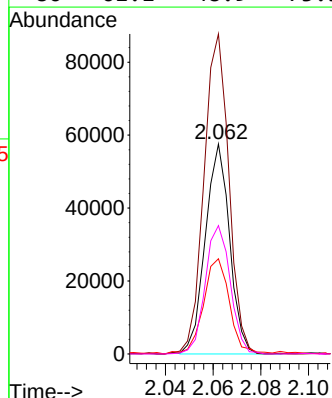
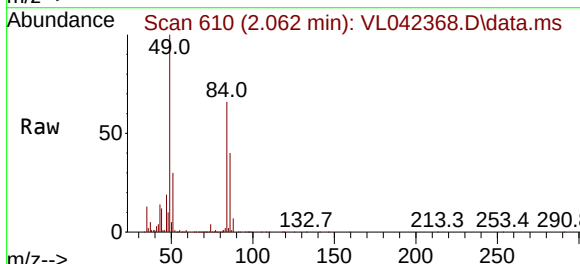
Instrument :
MSVOA_1
ClientSampleId :
IA-B2-2-03312025

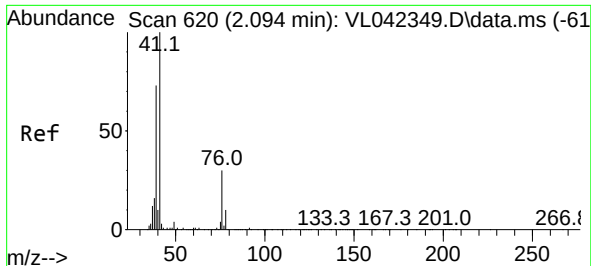
Tgt Ion: 45 Resp: 473769
Ion Ratio Lower Upper
45 100
58 0.0 34.5 51.7#



#20
Methylene Chloride
Concen: 5.357 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion: 84 Resp: 40932
Ion Ratio Lower Upper
84 100
49 151.7 111.6 167.4
51 44.5 35.1 52.7
86 61.1 48.9 73.3

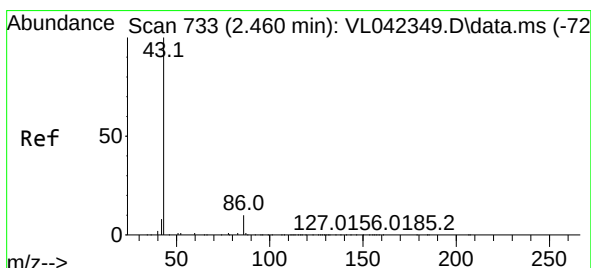
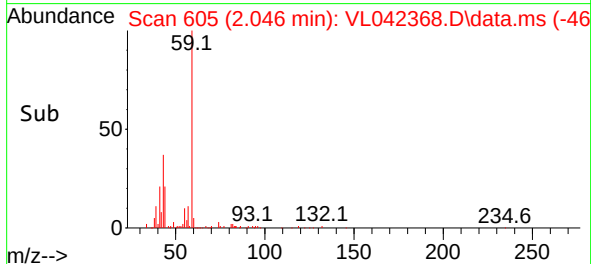
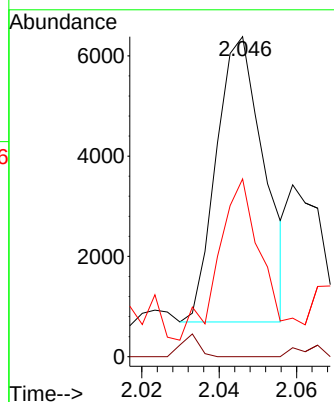
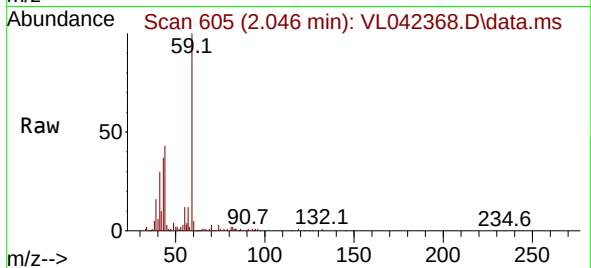




#21
 Allyl Chloride
 Concen: 0.362 ppbv
 RT: 2.046 min Scan# 605
 Delta R.T. -0.048 min
 Lab File: VL042368.D
 Acq: 17 Apr 2025 21:12

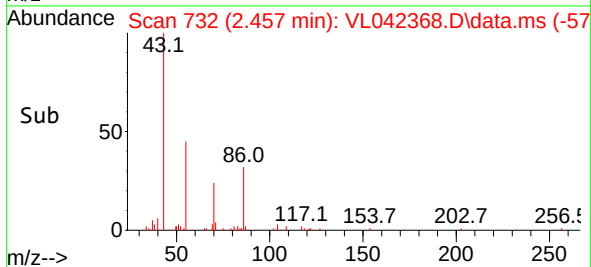
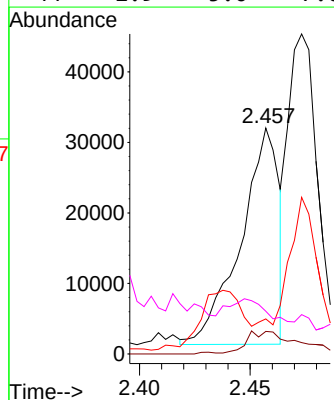
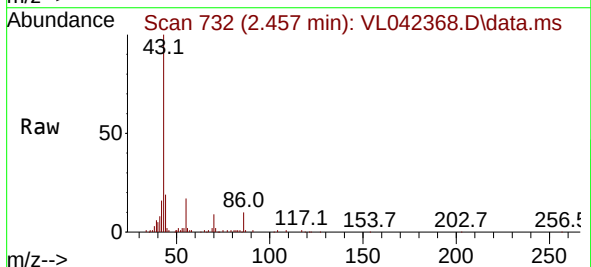
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-2-03312025

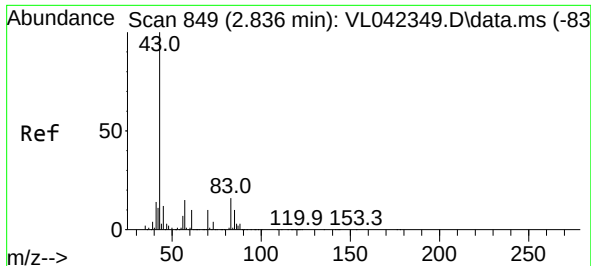
Tgt Ion: 41 Resp: 4879
 Ion Ratio Lower Upper
 41 100
 76 3.0 24.8 37.2#
 39 0.0 60.6 90.8#



#23
 Vinyl Acetate
 Concen: 4.647 ppbv
 RT: 2.457 min Scan# 732
 Delta R.T. -0.003 min
 Lab File: VL042368.D
 Acq: 17 Apr 2025 21:12

Tgt Ion: 43 Resp: 36701
 Ion Ratio Lower Upper
 43 100
 86 10.6 6.5 9.7#
 42 13.2 7.8 11.8#
 44 2.9 5.0 7.6#

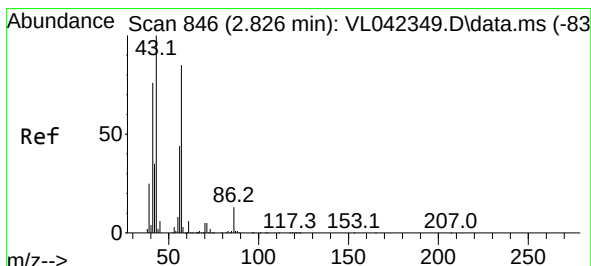
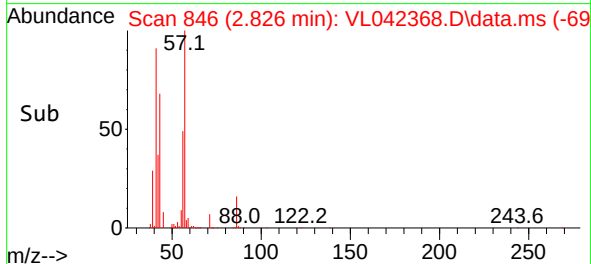
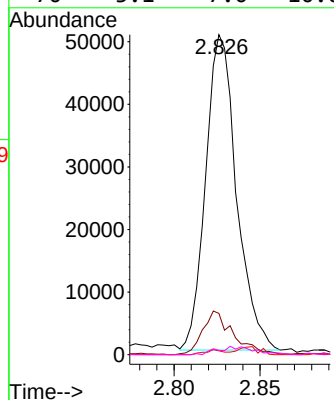
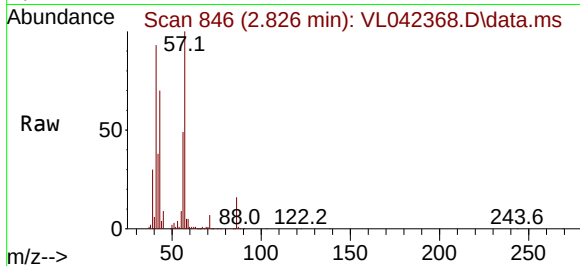




#25
Ethyl Acetate
Concen: 1.310 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.009 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

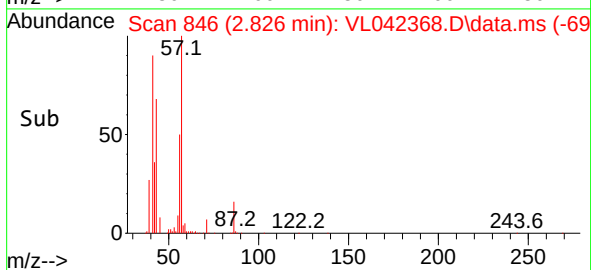
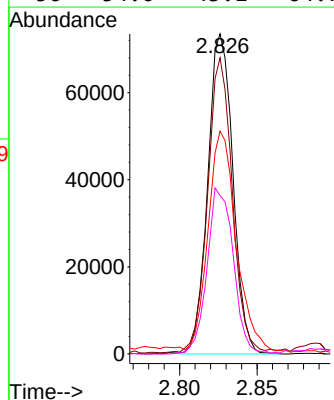
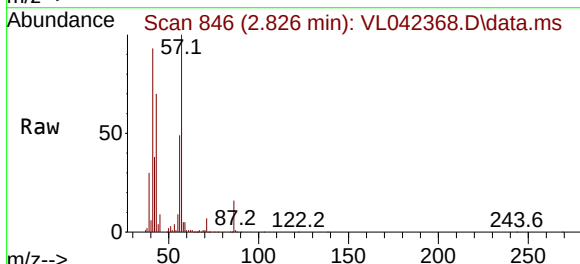
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

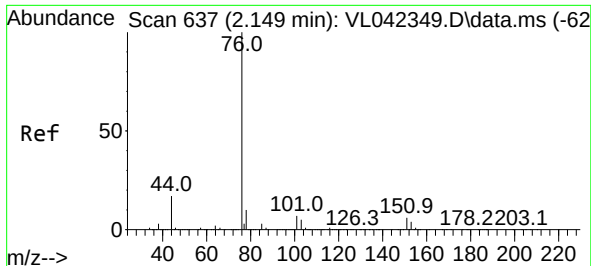
Tgt Ion: 43	Resp: 63042
Ion Ratio	Lower Upper
43 100	
45 13.9	8.3 12.5#
61 2.7	7.3 10.9#
70 3.1	7.0 10.6#



#26
Hexane
Concen: 4.261 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion: 57	Resp: 82957
Ion Ratio	Lower Upper
57 100	
41 90.3	77.9 116.9
43 80.7	208.4 312.6#
56 54.0	43.1 64.7

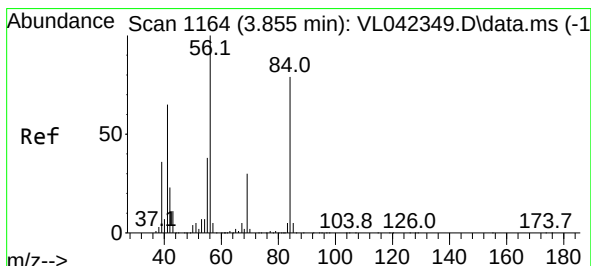
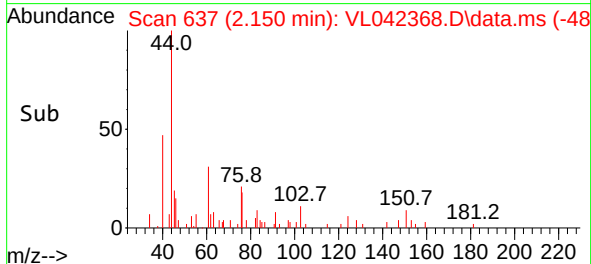
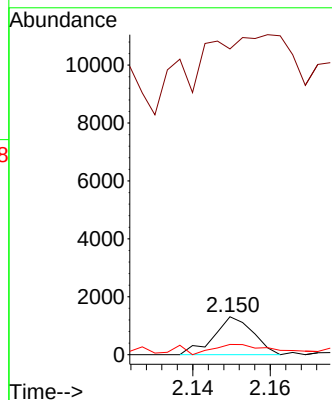
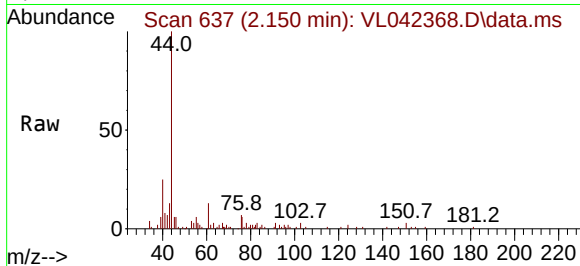




#27
Carbon Disulfide
Concen: 0.044 ppbv
RT: 2.150 min Scan# 61
Delta R.T. 0.000 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

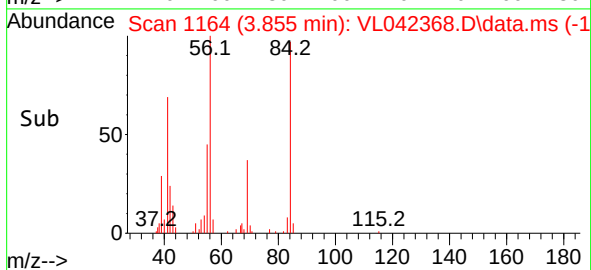
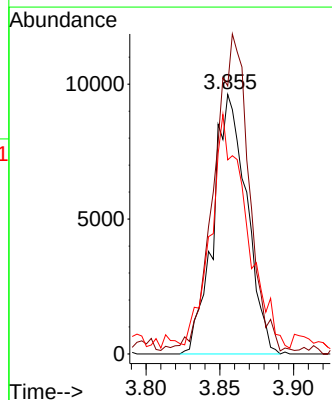
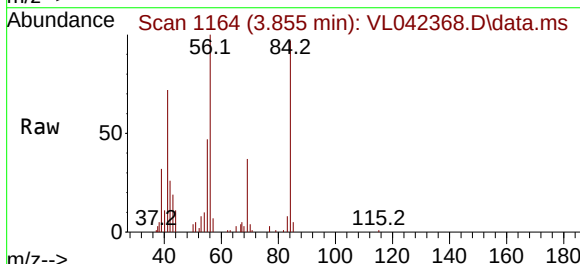
Instrument :
MSVOA_1
ClientSampleId :
IA-B2-2-03312025

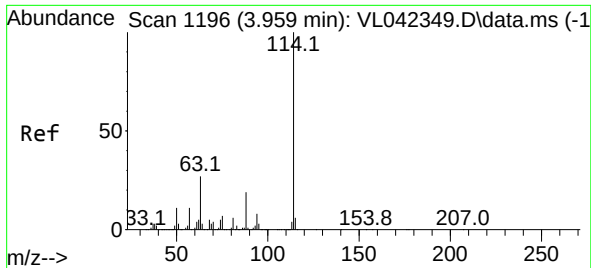
Tgt Ion: 76 Resp: 919
Ion Ratio Lower Upper
76 100
44 0.0 15.5 23.3#
78 43.5 9.3 13.9#



#30
Cyclohexane
Concen: 0.967 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. 0.000 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion: 84 Resp: 15212
Ion Ratio Lower Upper
84 100
56 125.5 101.0 151.4
41 103.5 67.4 101.0#

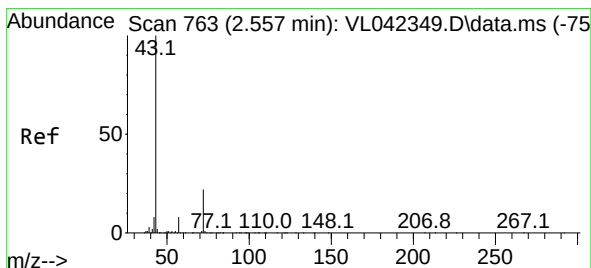
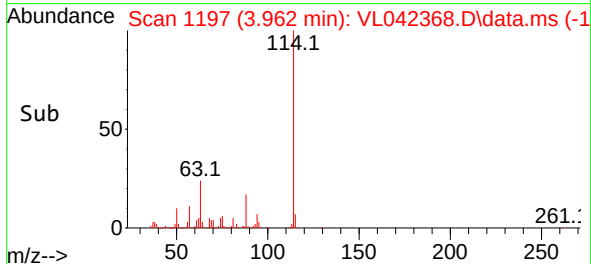
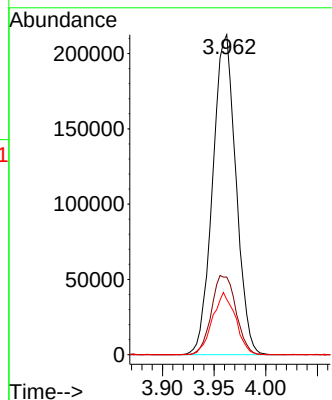
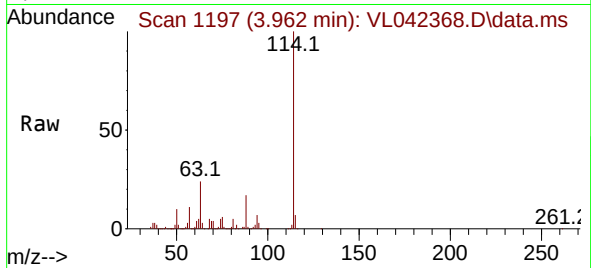




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.962 min Scan# 1197
 Delta R.T. 0.004 min
 Lab File: VL042368.D
 Acq: 17 Apr 2025 21:12

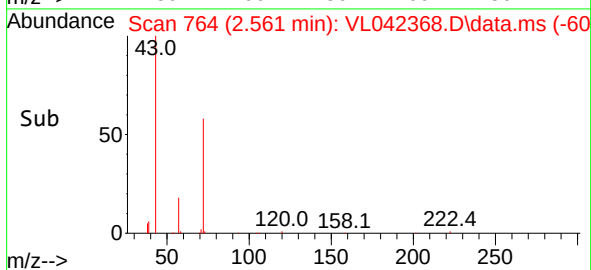
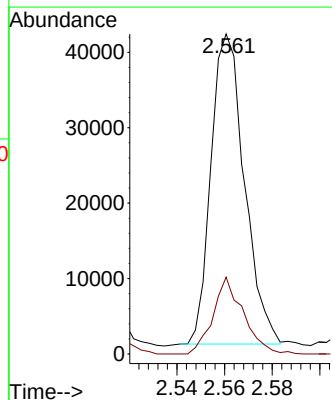
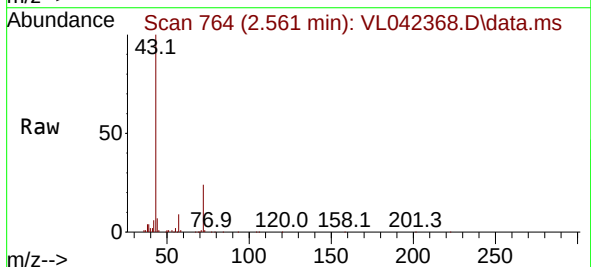
Instrument : MSVOA_1
 ClientSampleId : IA-B2-2-03312025

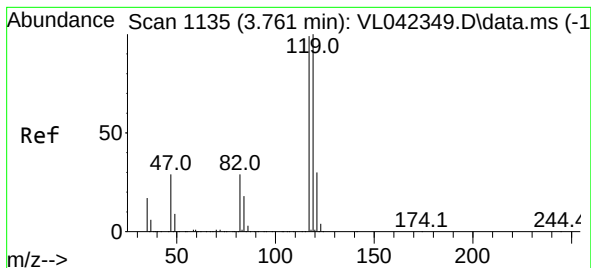
Tgt Ion:114 Resp: 333003
 Ion Ratio Lower Upper
 114 100
 63 26.1 21.8 32.6
 88 19.3 15.5 23.3



#34
 2-Butanone
 Concen: 1.520 ppbv
 RT: 2.561 min Scan# 764
 Delta R.T. 0.004 min
 Lab File: VL042368.D
 Acq: 17 Apr 2025 21:12

Tgt Ion: 43 Resp: 40042
 Ion Ratio Lower Upper
 43 100
 72 22.5 18.2 27.2





#35

Carbon Tetrachloride

Concen: 0.071 ppbv

RT: 3.768 min Scan# 1137

Delta R.T. 0.007 min

Lab File: VL042368.D

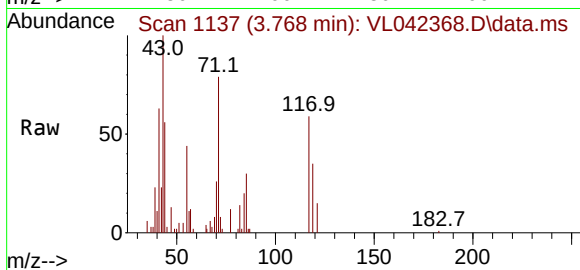
Acq: 17 Apr 2025 21:12

Instrument :

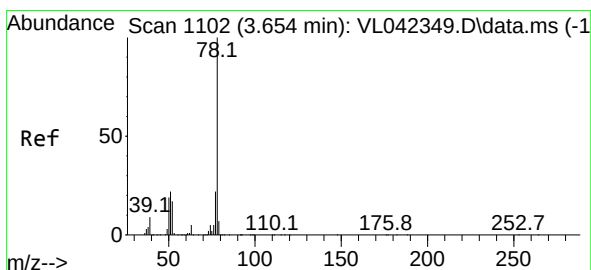
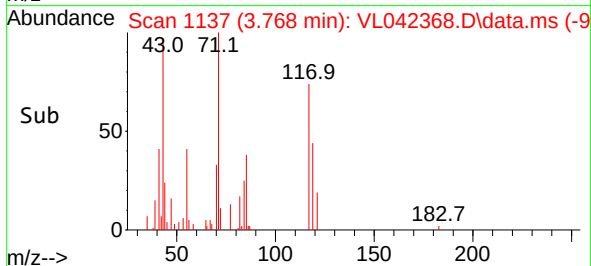
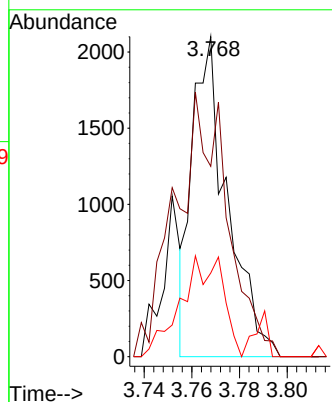
MSVOA_1

ClientSampleId :

IA-B2-2-03312025



Tgt Ion:117	Resp:	2143
Ion	Ratio	Lower Upper
117	100	
119	59.5	80.5 120.7#
121	26.1	24.2 36.2



#36

Benzene

Concen: 0.901 ppbv

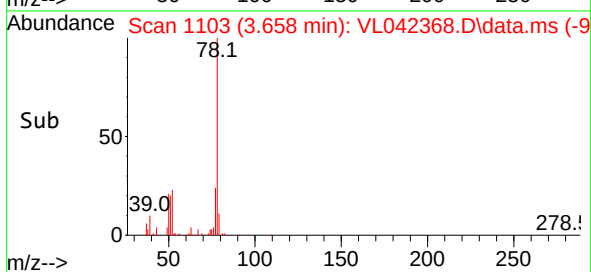
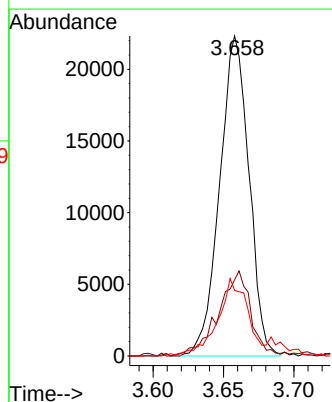
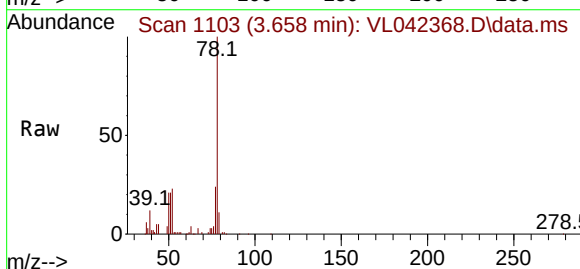
RT: 3.658 min Scan# 1103

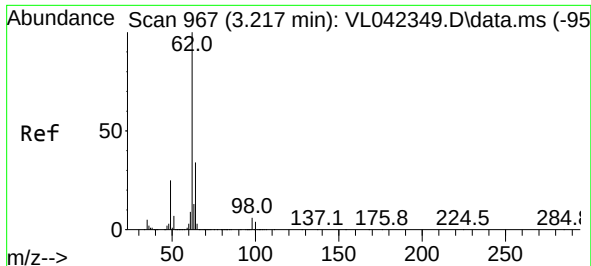
Delta R.T. 0.004 min

Lab File: VL042368.D

Acq: 17 Apr 2025 21:12

Tgt Ion: 78	Resp:	32372
Ion	Ratio	Lower Upper
78	100	
77	23.0	17.4 26.0
50	19.9	15.5 23.3





#37

1,2-Dichloroethane

Concen: 0.161 ppbv

RT: 3.221 min Scan# 9

Delta R.T. 0.004 min

Lab File: VL042368.D

Acq: 17 Apr 2025 21:12

Instrument :

MSVOA_1

ClientSampleId :

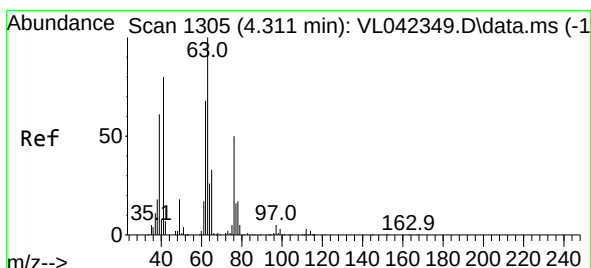
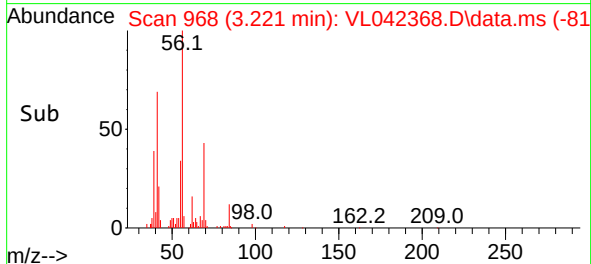
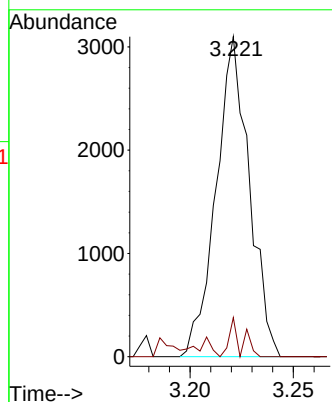
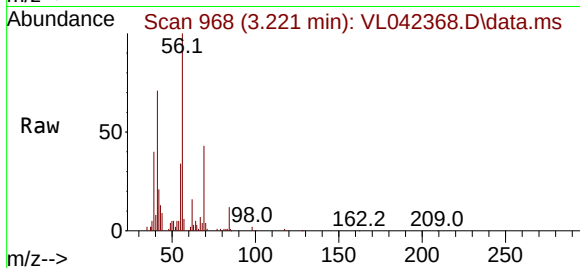
IA-B2-2-03312025

Tgt Ion: 62 Resp: 3461

Ion Ratio Lower Upper

62 100

98 7.9 5.1 7.7#



#39

1,2-Dichloropropane

Concen: 6.491 ppbv

RT: 3.956 min Scan# 1195

Delta R.T. -0.356 min

Lab File: VL042368.D

Acq: 17 Apr 2025 21:12

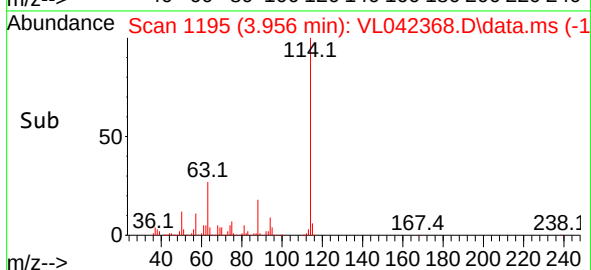
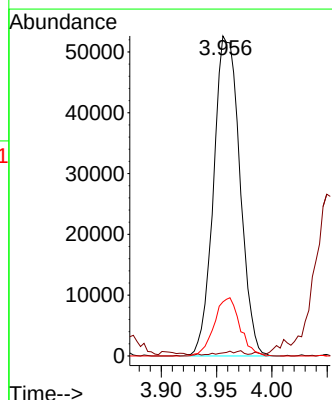
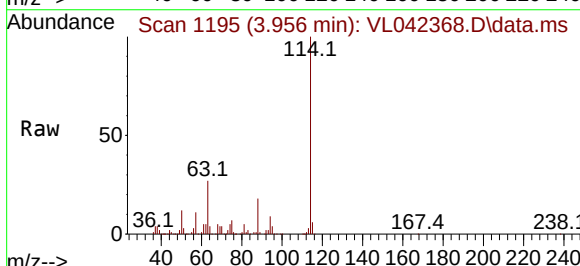
Tgt Ion: 63 Resp: 86880

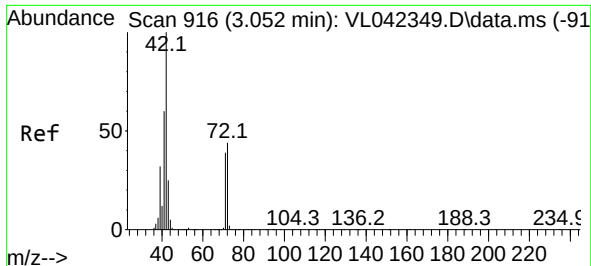
Ion Ratio Lower Upper

63 100

41 0.1 64.2 96.2#

62 16.9 54.3 81.5#





#41

Tetrahydrofuran

Concen: 0.269 ppbv

RT: 3.066 min Scan# 916

Delta R.T. 0.013 min

Lab File: VL042368.D

Acq: 17 Apr 2025 21:12

Instrument :

MSVOA_L

ClientSampleId :

IA-B2-2-03312025

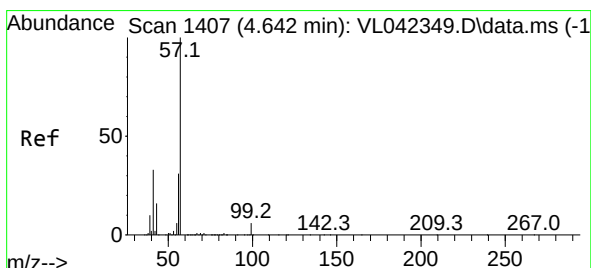
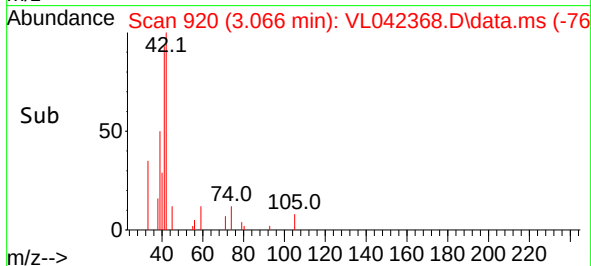
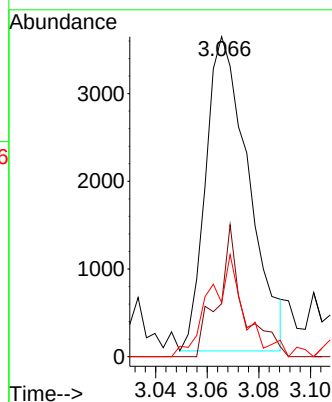
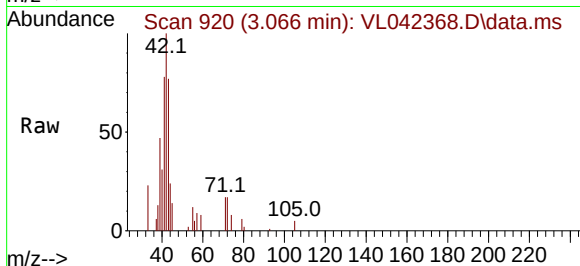
Tgt Ion: 42 Resp: 4138

Ion Ratio Lower Upper

42 100

72 24.8 32.3 48.5#

71 29.5 31.4 47.2#



#44

2,2,4-Trimethylpentane

Concen: 8.414 ppbv

RT: 4.642 min Scan# 1407

Delta R.T. 0.000 min

Lab File: VL042368.D

Acq: 17 Apr 2025 21:12

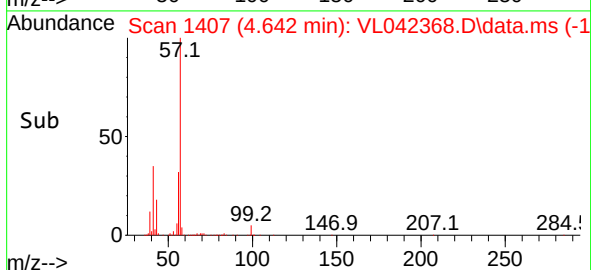
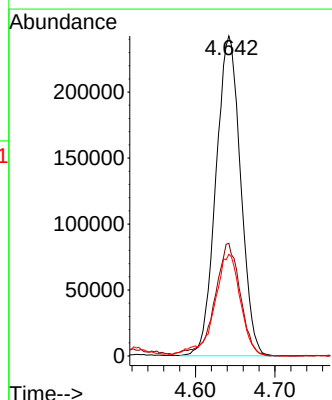
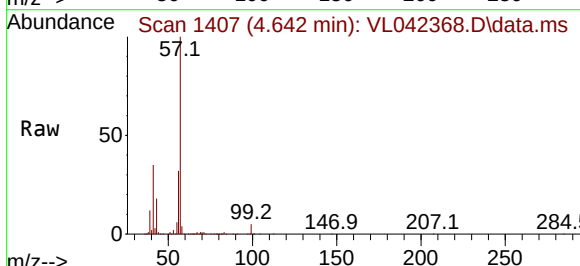
Tgt Ion: 57 Resp: 521960

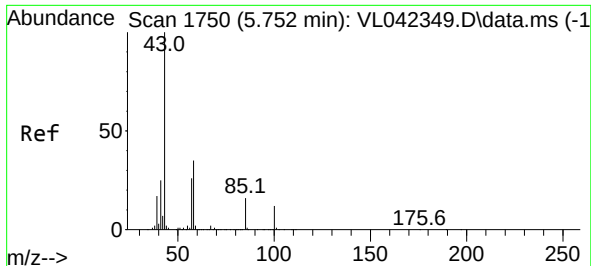
Ion Ratio Lower Upper

57 100

41 36.7 27.2 40.8

56 34.1 25.7 38.5





#50

4-Methyl-2-Pentanone

Concen: 0.054 ppbv

RT: 5.762 min Scan# 1

Delta R.T. 0.010 min

Lab File: VL042368.D

Acq: 17 Apr 2025 21:12

Instrument :

MSVOA_L

ClientSampleId :

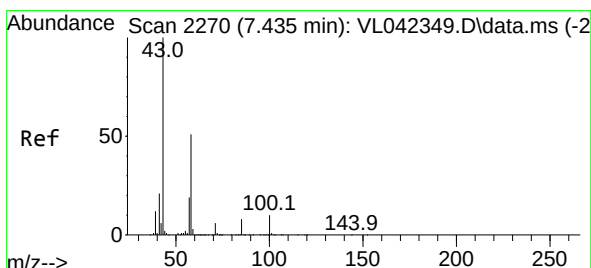
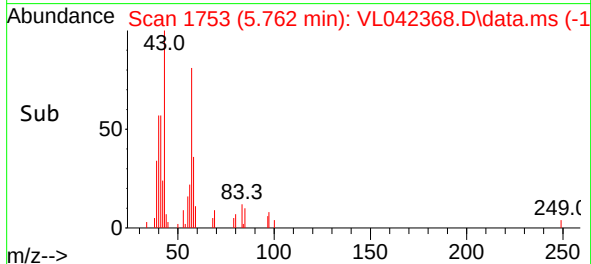
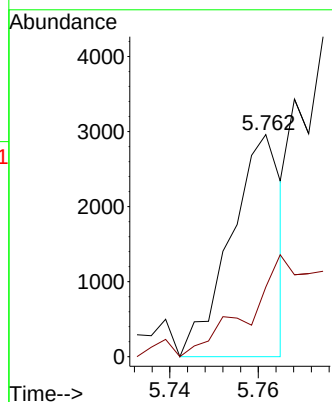
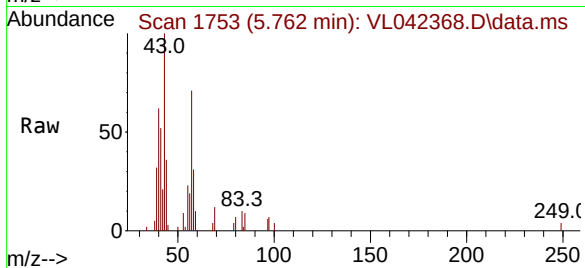
IA-B2-2-03312025

Tgt Ion: 43 Resp: 2346

Ion Ratio Lower Upper

43 100

58 147.0 28.6 43.0#



#51

2-Hexanone

Concen: 0.119 ppbv

RT: 7.442 min Scan# 2272

Delta R.T. 0.007 min

Lab File: VL042368.D

Acq: 17 Apr 2025 21:12

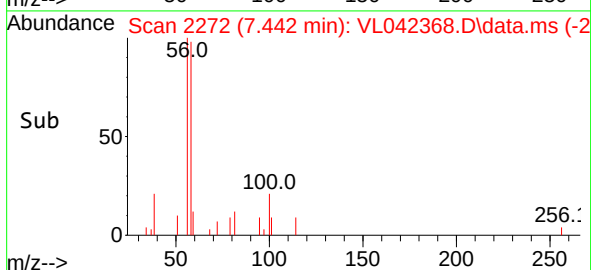
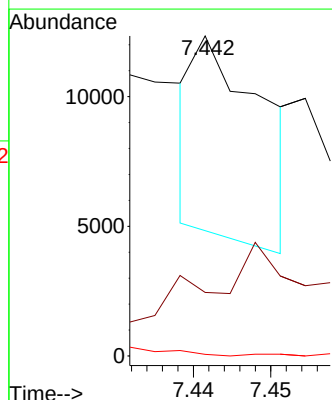
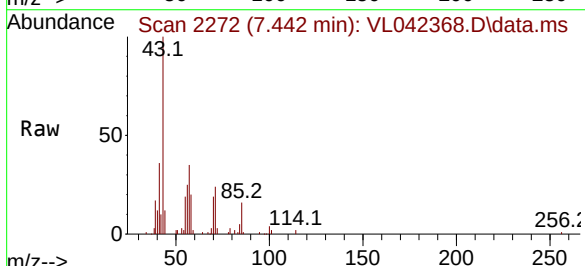
Tgt Ion: 43 Resp: 4683

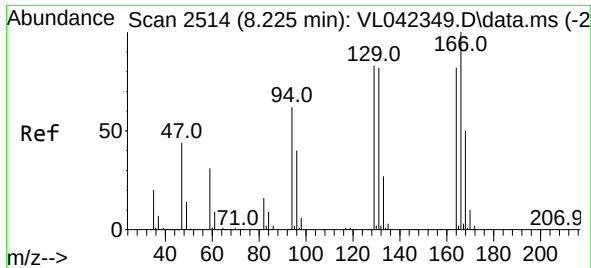
Ion Ratio Lower Upper

43 100

58 0.0 40.2 60.4#

98 0.0 0.1 0.1#

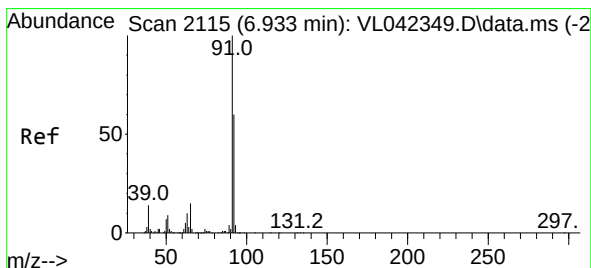
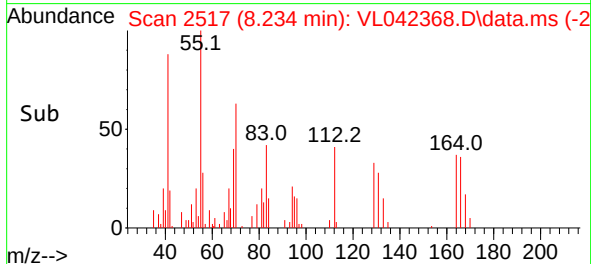
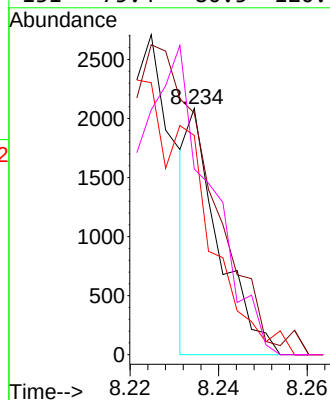
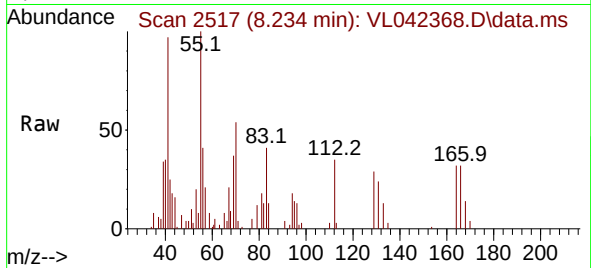




#52
Tetrachloroethene
Concen: 0.072 ppbv
RT: 8.234 min Scan# 2115
Delta R.T. 0.010 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

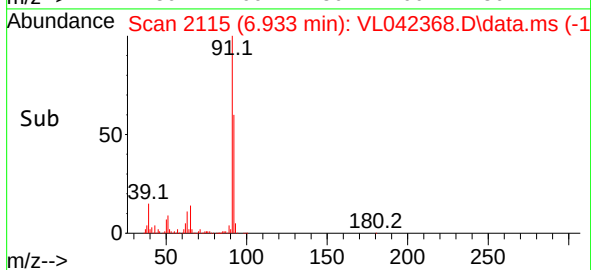
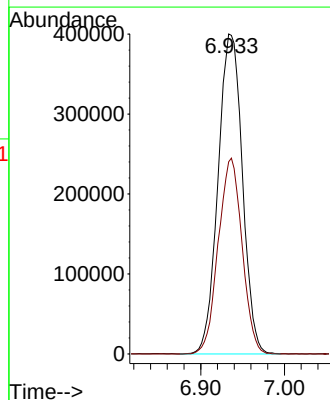
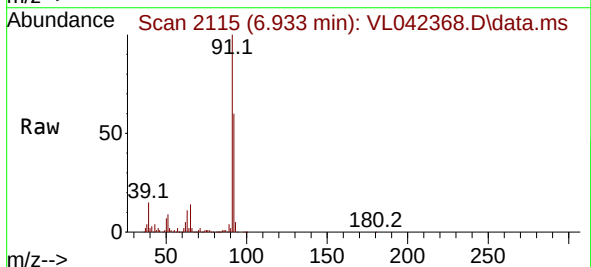
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

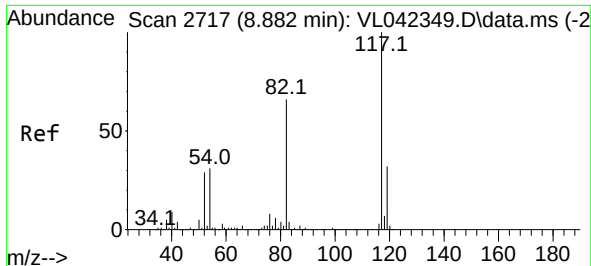
Tgt Ion:164 Resp: 1006
Ion Ratio Lower Upper
164 100
166 94.4 98.2 147.2#
129 79.3 81.8 122.8#
131 75.4 80.5 120.7#



#53
Toluene
Concen: 18.711 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. 0.000 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion: 91 Resp: 806485
Ion Ratio Lower Upper
91 100
92 59.9 48.2 72.4

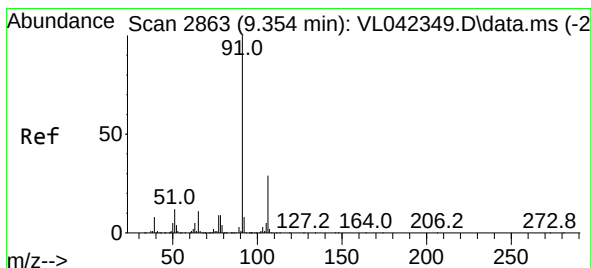
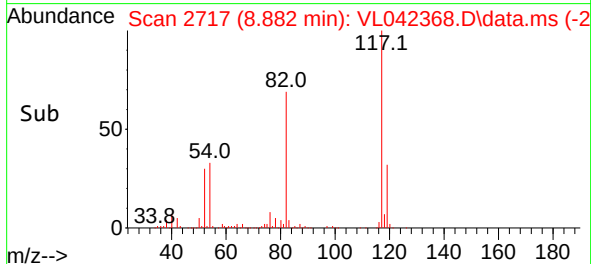
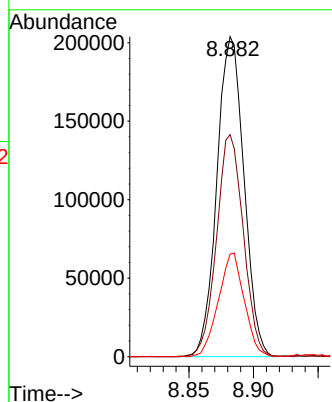
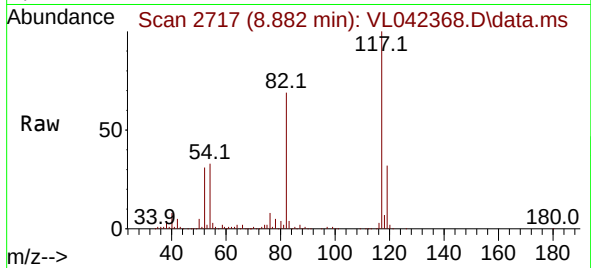




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

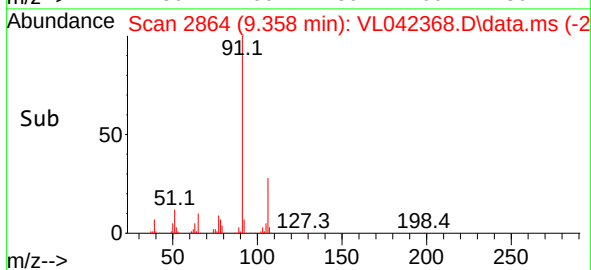
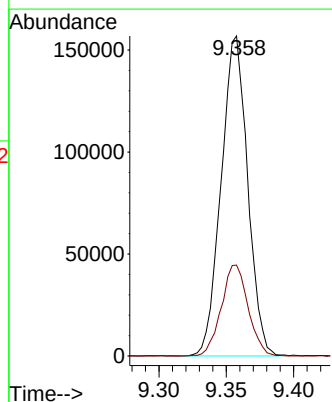
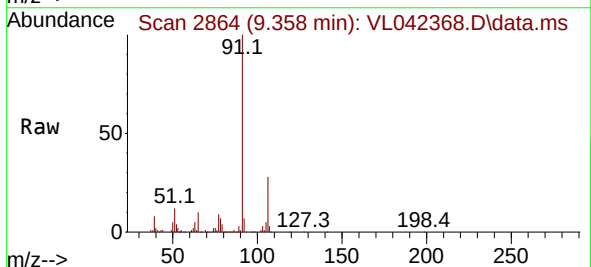
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

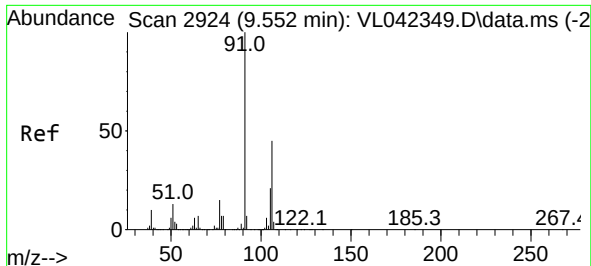
Tgt Ion:117 Resp: 297493
Ion Ratio Lower Upper
117 100
82 68.6 57.8 86.6
119 30.9 25.2 37.8



#58
Ethyl Benzene
Concen: 3.643 ppbv
RT: 9.358 min Scan# 2864
Delta R.T. 0.004 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion: 91 Resp: 214751
Ion Ratio Lower Upper
91 100
106 28.4 23.0 34.4





#59

m/p-Xylene

Concen: 12.631 ppbv

RT: 9.532 min Scan# 2918

Delta R.T. -0.019 min

Lab File: VL042368.D

Acq: 17 Apr 2025 21:12

Instrument :

MSVOA_L

ClientSampleId :

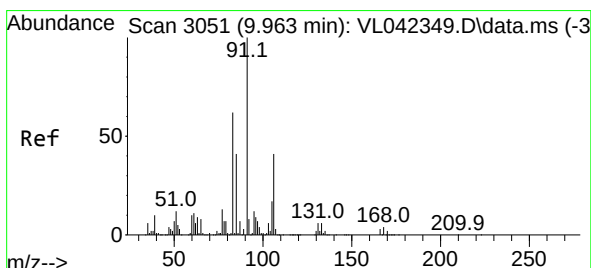
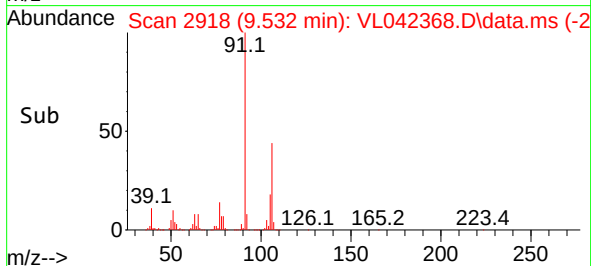
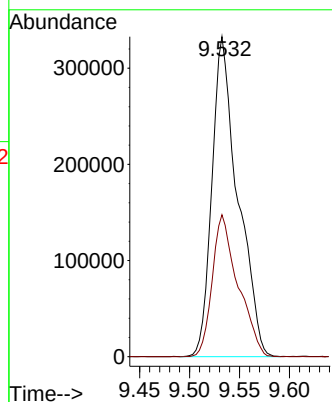
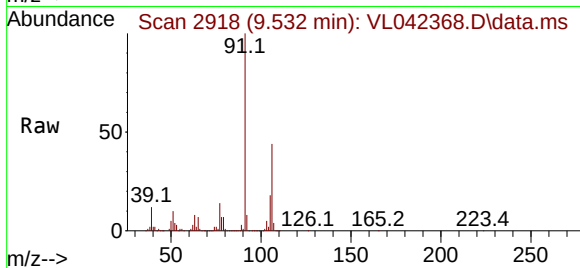
LA-B2-2-03312025

Tgt Ion: 91 Resp: 599749

Ion Ratio Lower Upper

91 100

106 44.1 35.4 53.2



#60

o-Xylene

Concen: 4.992 ppbv

RT: 9.966 min Scan# 3052

Delta R.T. 0.004 min

Lab File: VL042368.D

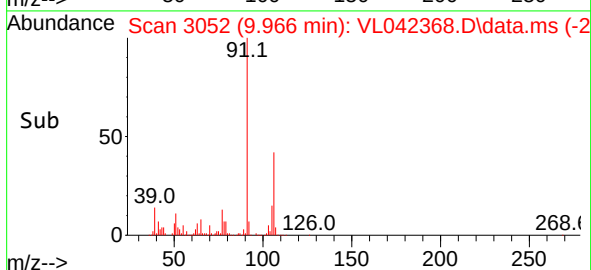
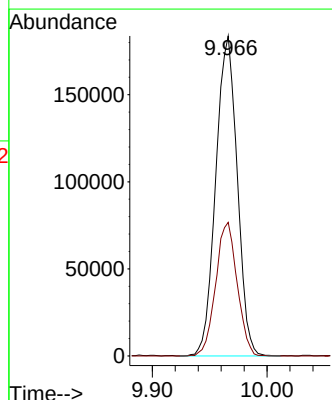
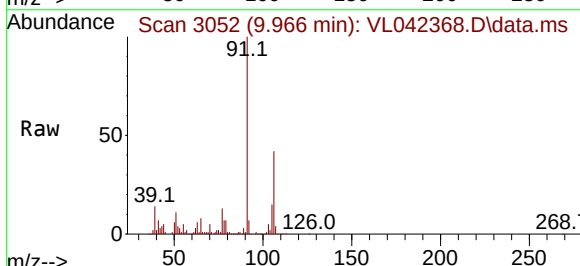
Acq: 17 Apr 2025 21:12

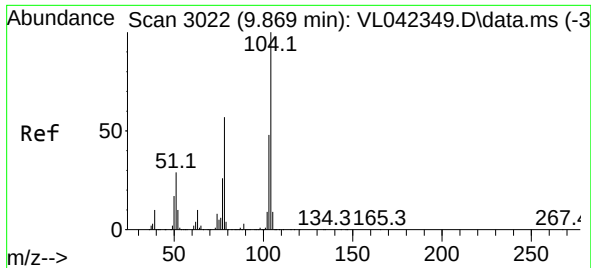
Tgt Ion: 91 Resp: 238681

Ion Ratio Lower Upper

91 100

106 41.8 21.1 63.4





#61

Styrene

Concen: 0.395 ppbv

RT: 9.875 min Scan# 3022

Delta R.T. 0.007 min

Lab File: VL042368.D

Acq: 17 Apr 2025 21:12

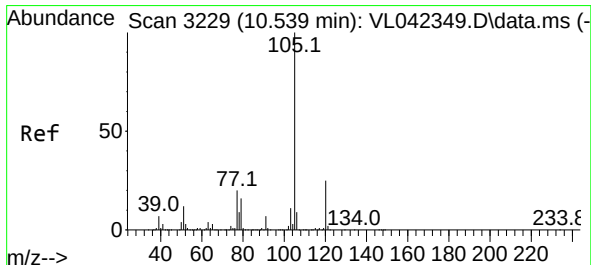
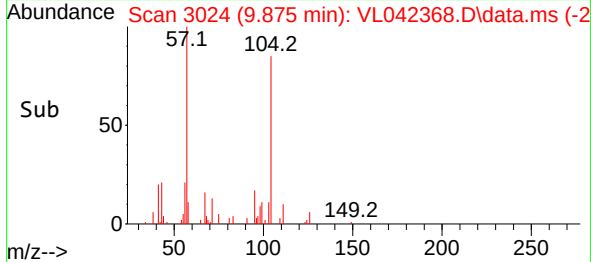
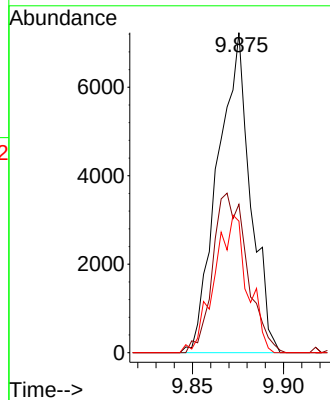
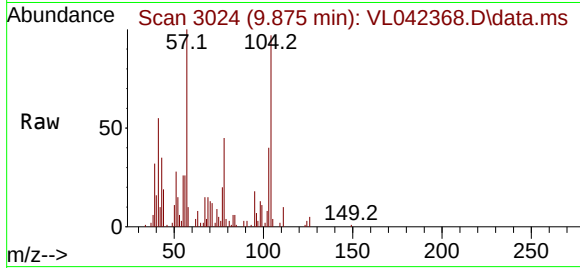
Instrument :

MSVOA_L

ClientSampleId :

IA-B2-2-03312025

Tgt Ion:104	Resp:	9022
Ion Ratio	Lower	Upper
104	100	
78	52.5	44.6 66.8
103	43.6	37.4 56.0



#62

Isopropylbenzene

Concen: 0.337 ppbv

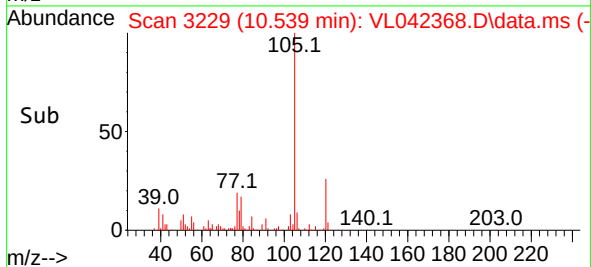
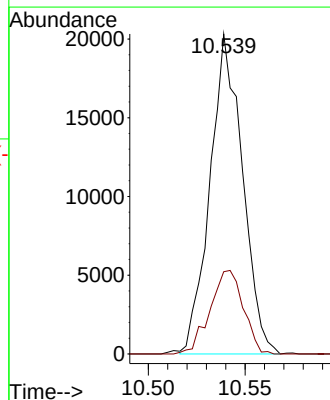
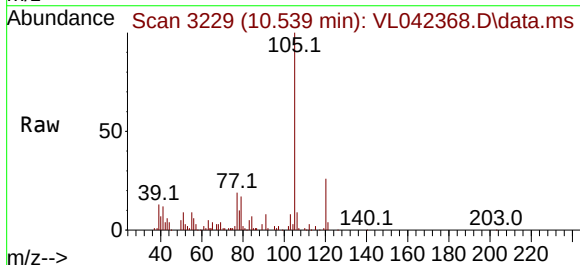
RT: 10.539 min Scan# 3229

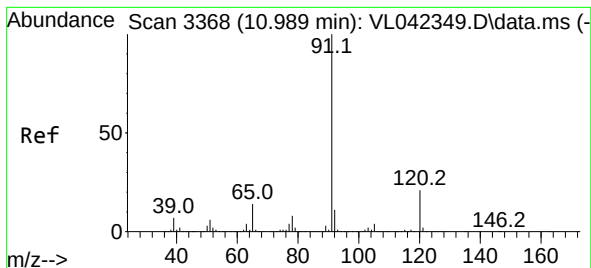
Delta R.T. 0.000 min

Lab File: VL042368.D

Acq: 17 Apr 2025 21:12

Tgt Ion:105	Resp:	23690
Ion Ratio	Lower	Upper
105	100	
120	26.8	19.8 29.8





#64

n-propylbenzene

Concen: 1.044 ppbv

RT: 10.989 min Scan# 31

Delta R.T. 0.000 min

Lab File: VL042368.D

Acq: 17 Apr 2025 21:12

Instrument :

MSVOA_1

ClientSampleId :

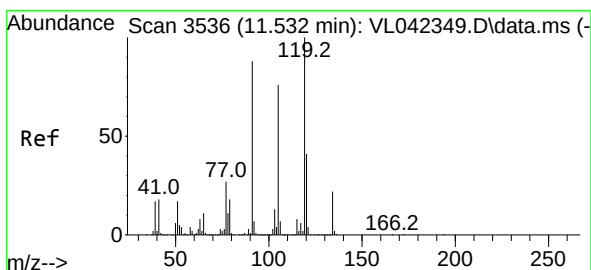
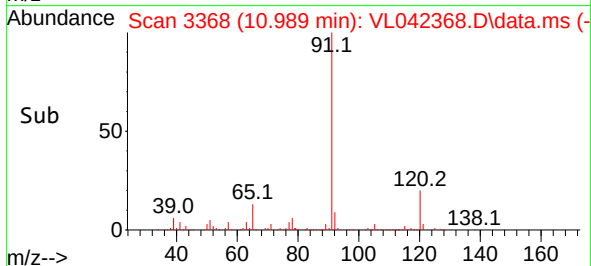
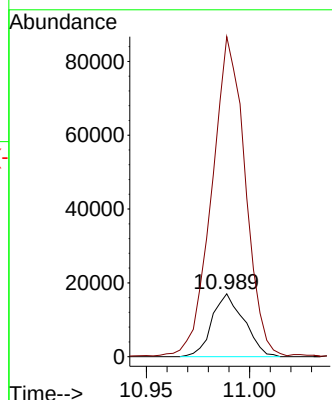
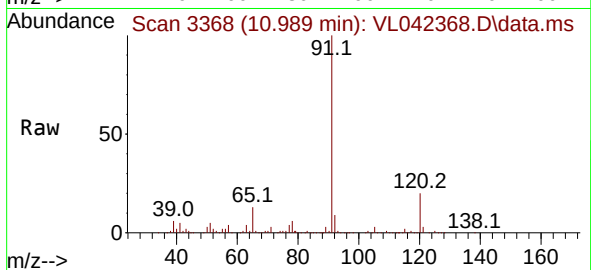
IA-B2-2-03312025

Tgt Ion:120 Resp: 18420

Ion Ratio Lower Upper

120 100

91 530.0 392.4 588.6



#65

tert-Butylbenzene

Concen: 0.588 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. 0.007 min

Lab File: VL042368.D

Acq: 17 Apr 2025 21:12

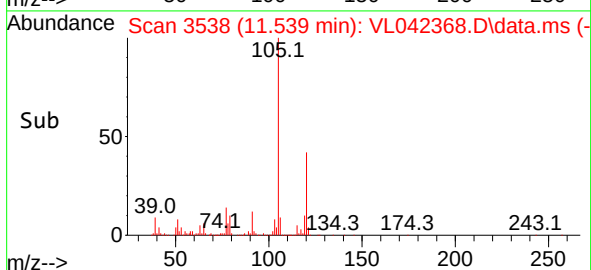
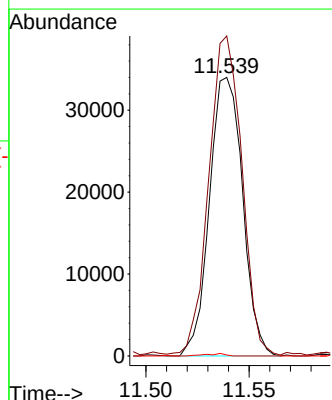
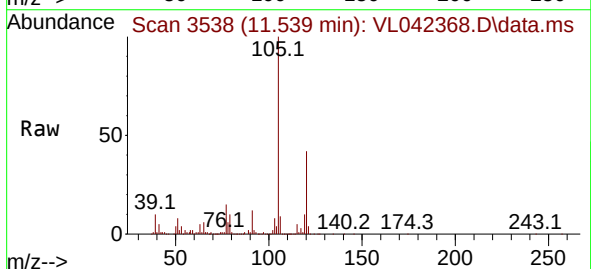
Tgt Ion:119 Resp: 37957

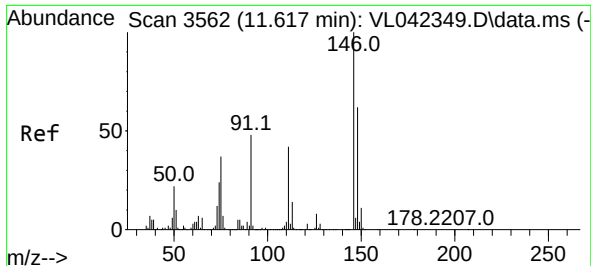
Ion Ratio Lower Upper

119 100

91 116.2 74.6 111.8#

134 0.5 18.8 28.2#

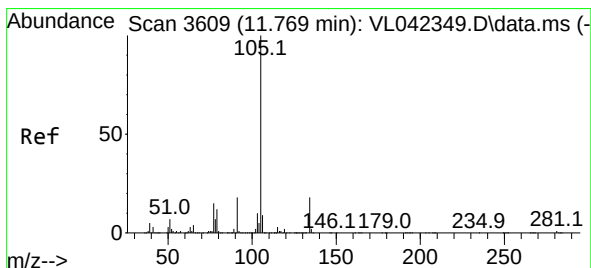
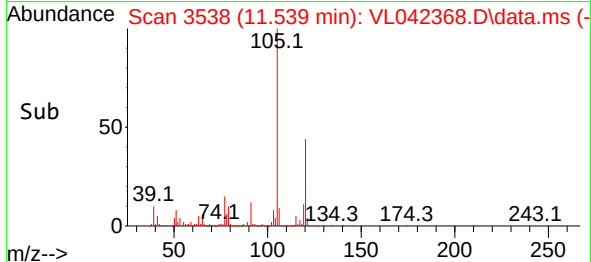
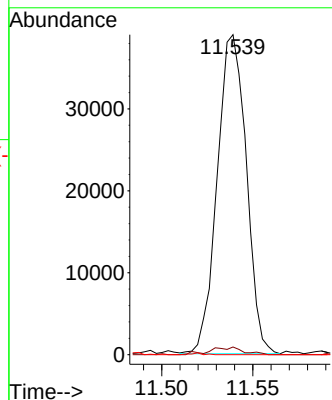
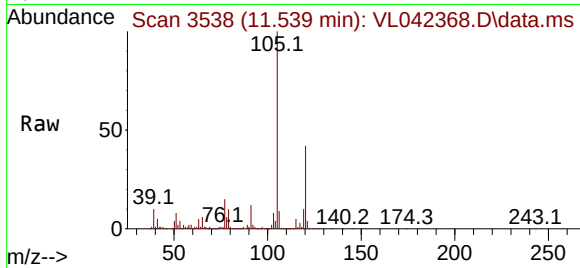




#66
Benzyl Chloride
Concen: 6.096 ppbv
RT: 11.539 min Scan# 311
Delta R.T. -0.077 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

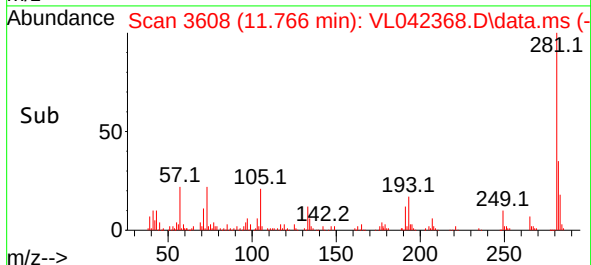
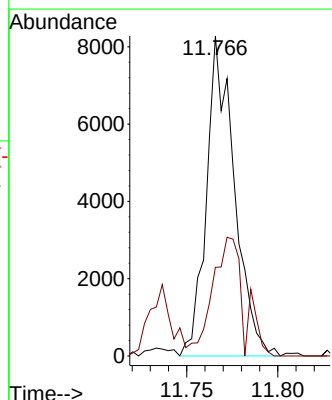
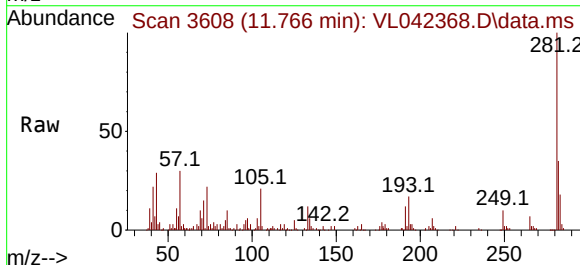
Instrument :
MSVOA_1
ClientSampleId :
IA-B2-2-03312025

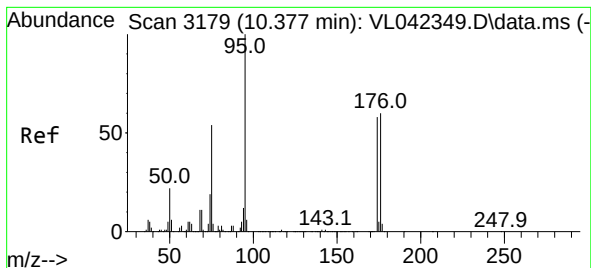
Tgt Ion: 91 Resp: 43222
Ion Ratio Lower Upper
91 100
126 2.7 11.8 17.6#
128 0.0 4.5 6.7#



#67
sec-Butylbenzene
Concen: 0.098 ppbv
RT: 11.766 min Scan# 3608
Delta R.T. -0.003 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion: 105 Resp: 8800
Ion Ratio Lower Upper
105 100
134 40.5 14.6 21.8#

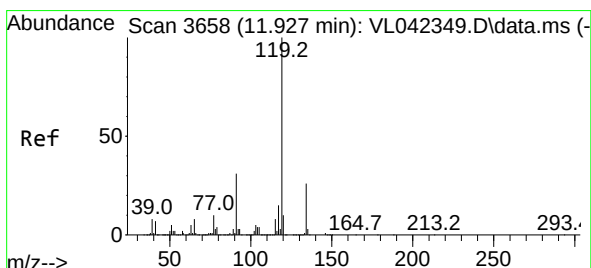
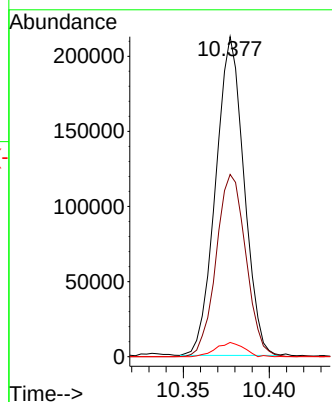
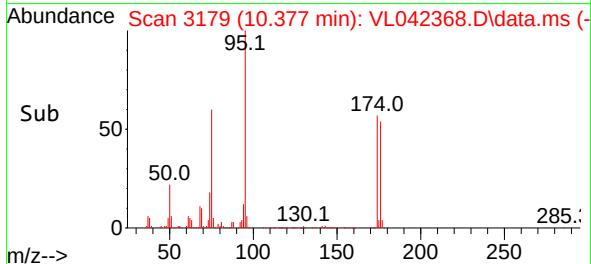
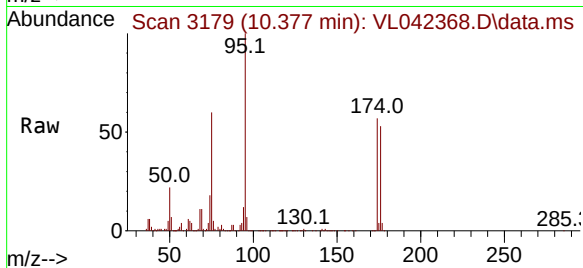




#68
1-Bromo-4-Fluorobenzene
Concen: 9.942 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.000 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

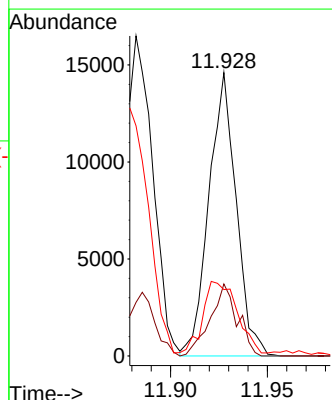
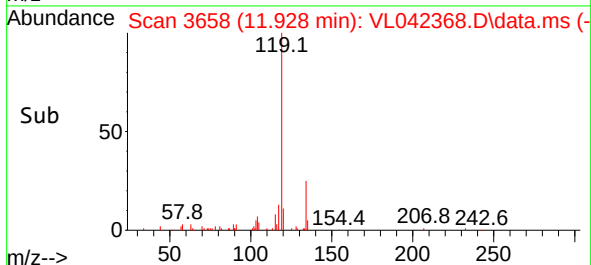
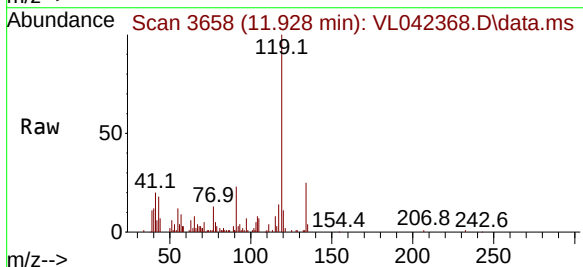
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

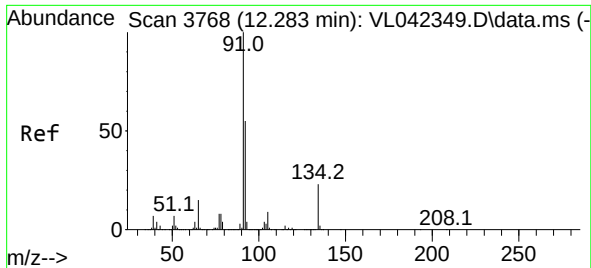
Tgt Ion: 95 Resp: 243044
Ion Ratio Lower Upper
95 100
174 60.1 48.5 72.7
175 4.4 3.7 5.5



#69
p-Isopropyltoluene
Concen: 0.184 ppbv
RT: 11.928 min Scan# 3658
Delta R.T. 0.000 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion: 119 Resp: 14319
Ion Ratio Lower Upper
119 100
134 25.4 20.0 30.0
91 34.4 24.4 36.6

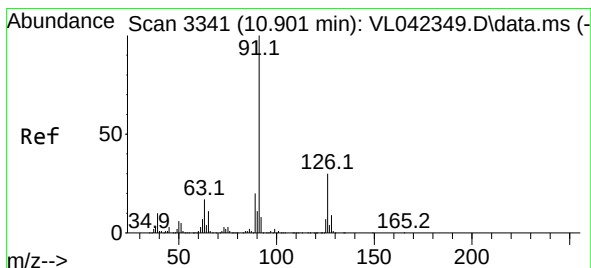
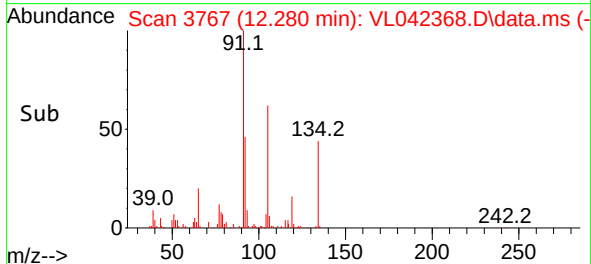
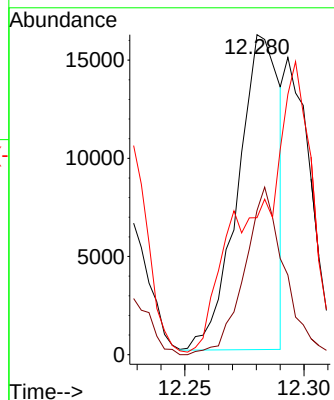
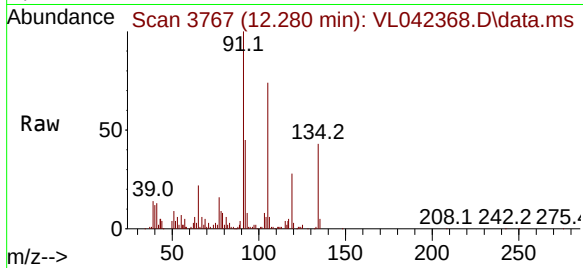




#70
n-Butylbenzene
Concen: 0.238 ppbv
RT: 12.280 min Scan# 31
Delta R.T. -0.003 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

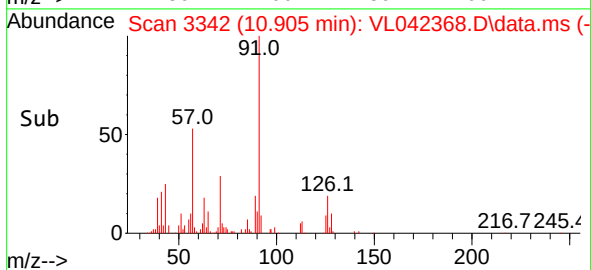
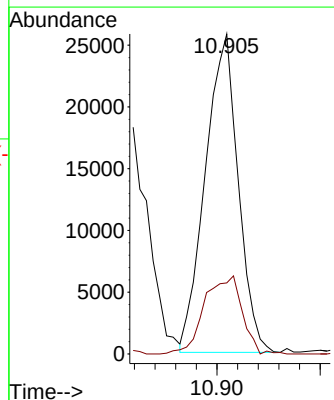
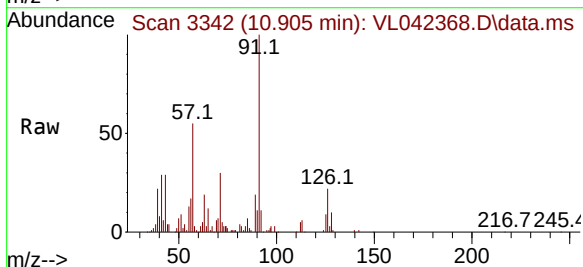
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

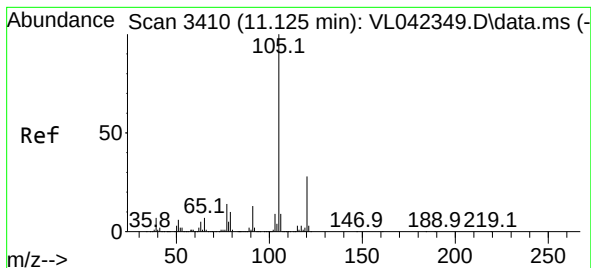
Tgt Ion: 91 Resp: 19345
Ion Ratio Lower Upper
91 100
92 51.2 44.2 66.4
134 0.0 18.2 27.4#



#71
2-Chlorotoluene
Concen: 0.517 ppbv
RT: 10.905 min Scan# 3342
Delta R.T. 0.004 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion: 91 Resp: 28490
Ion Ratio Lower Upper
91 100
126 29.0 11.4 45.4





#72

4-Ethyltoluene

Concen: 1.839 ppbv

RT: 11.128 min Scan# 3410

Delta R.T. 0.004 min

Lab File: VL042368.D

Acq: 17 Apr 2025 21:12

Instrument :

MSVOA_L

ClientSampleId :

IA-B2-2-03312025

Tgt Ion:105 Resp: 107491

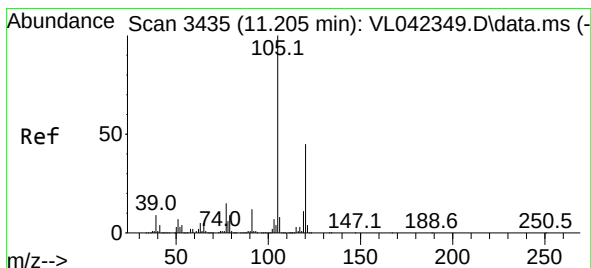
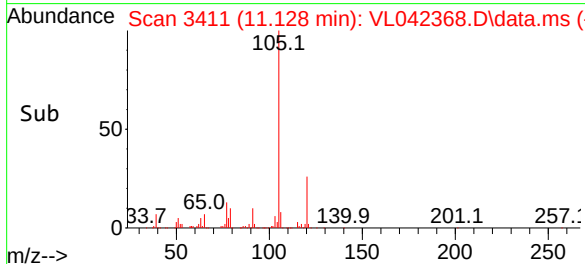
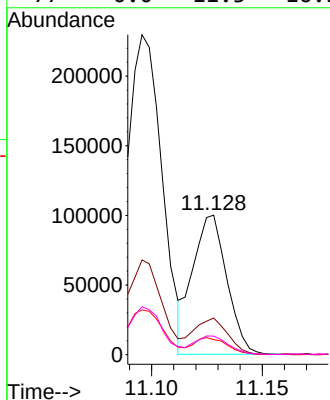
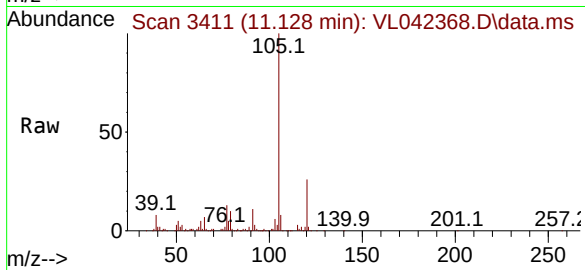
Ion Ratio Lower Upper

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: 2.130 ppbv

RT: 11.206 min Scan# 3435

Delta R.T. 0.000 min

Lab File: VL042368.D

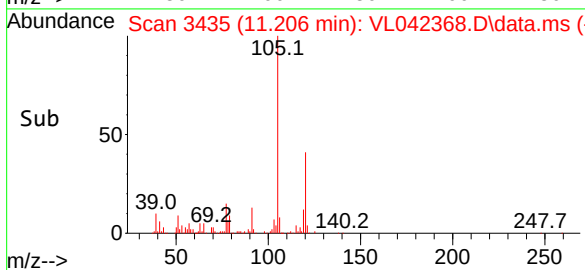
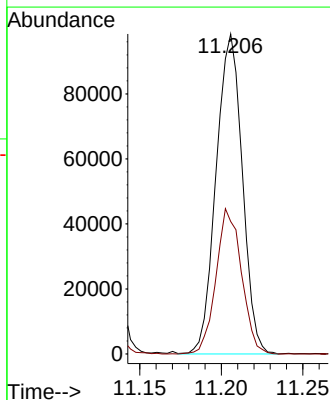
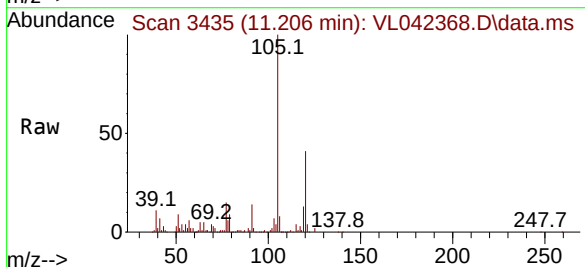
Acq: 17 Apr 2025 21:12

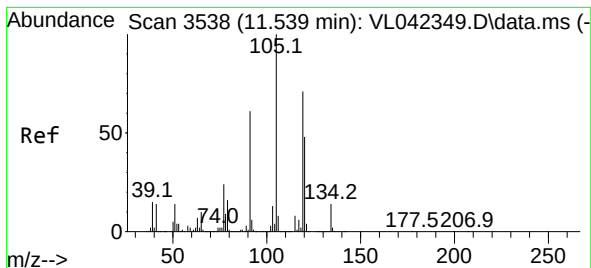
Tgt Ion:105 Resp: 109907

Ion Ratio Lower Upper

105 100

120 41.4 35.6 53.4





#74

1,2,4-Trimethylbenzene

Concen: 5.794 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. 0.000 min

Lab File: VL042368.D

Acq: 17 Apr 2025 21:12

Instrument :

MSVOA_1

ClientSampleId :

IA-B2-2-03312025

Tgt Ion:105 Resp: 349266

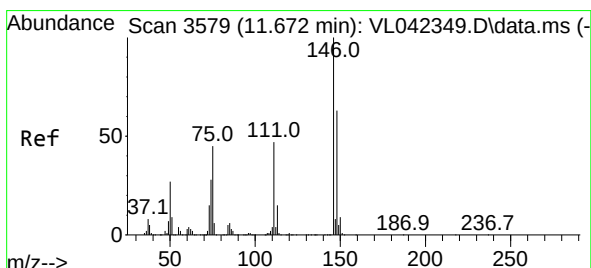
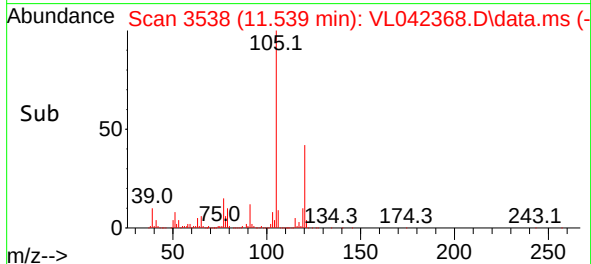
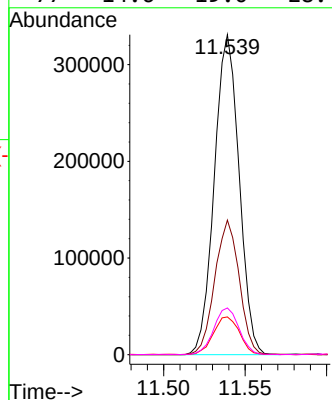
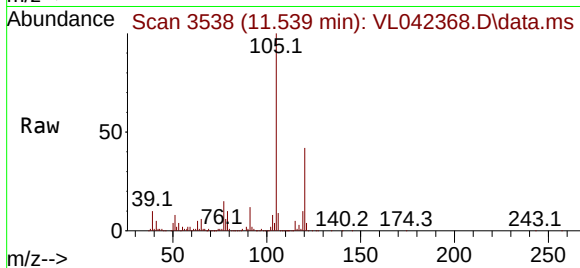
Ion Ratio Lower Upper

105 100

120 42.1 38.1 57.1

91 11.7 48.8 73.2#

77 14.6 19.0 28.4#



#76

1,4-Dichlorobenzene

Concen: 0.103 ppbv

RT: 11.672 min Scan# 3579

Delta R.T. 0.000 min

Lab File: VL042368.D

Acq: 17 Apr 2025 21:12

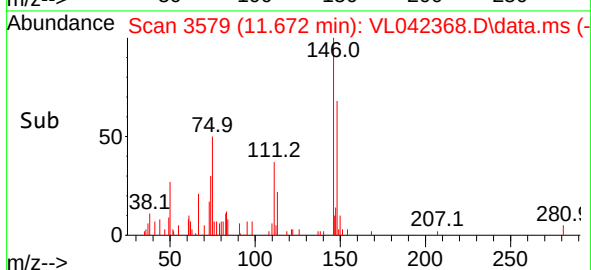
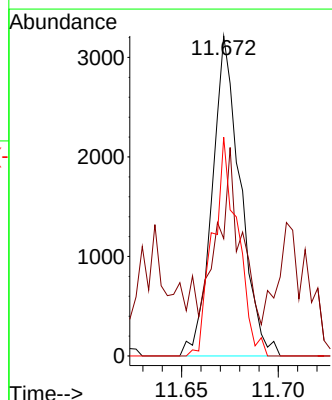
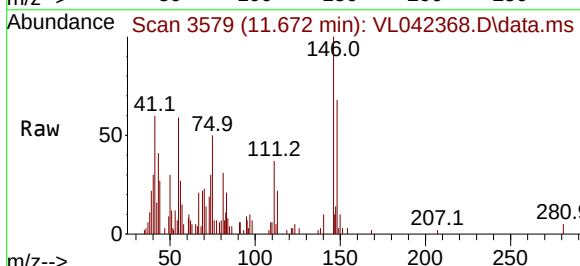
Tgt Ion:146 Resp: 3251

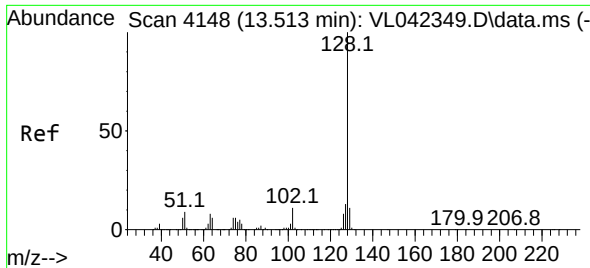
Ion Ratio Lower Upper

146 100

111 41.6 24.2 72.6

148 60.1 32.1 96.5

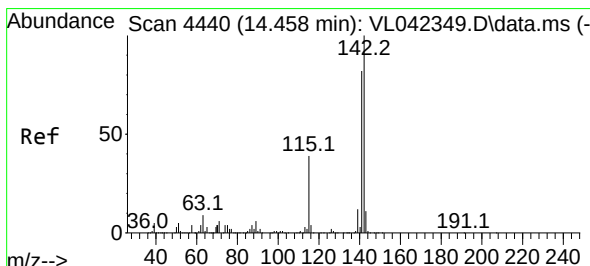
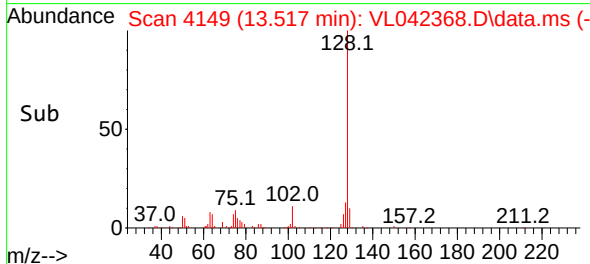
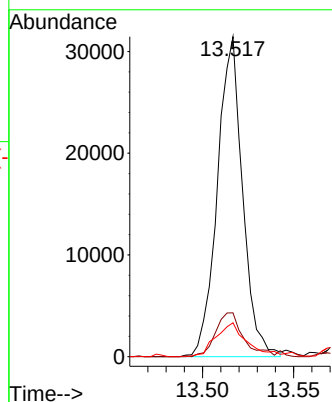
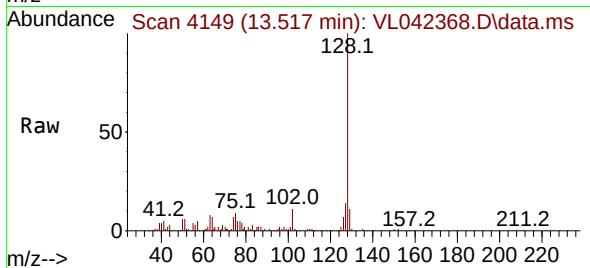




#79
Naphthalene
Concen: 0.420 ppbv
RT: 13.517 min Scan# 4148
Delta R.T. 0.004 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

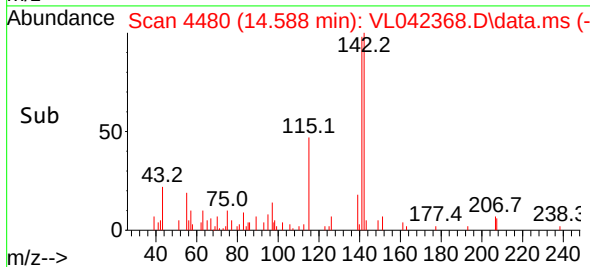
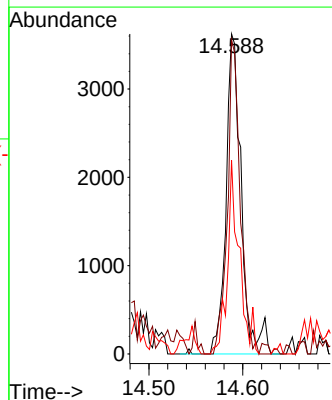
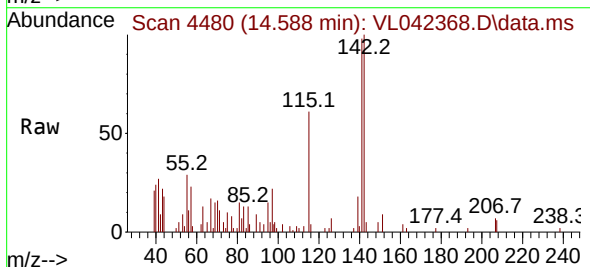
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025

Tgt Ion:	128	Resp:	30244
Ion Ratio	Lower	Upper	
128	100		
127	13.7	10.6	15.8
129	10.6	8.6	12.8



#80
Naphthalene, 2-methyl-
Concen: 0.099 ppbv
RT: 14.588 min Scan# 4480
Delta R.T. 0.130 min
Lab File: VL042368.D
Acq: 17 Apr 2025 21:12

Tgt Ion:	142	Resp:	4067
Ion Ratio	Lower	Upper	
142	100		
141	84.7	66.8	100.2
115	47.5	33.4	50.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042369.D
 Acq On : 17 Apr 2025 21:45
 Operator : SY/MD
 Sample : Q1726-04
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-5-03312025

Quant Time: Apr 18 02:44:30 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	115766	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	331154	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.881	117	288378	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	233305	9.845	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.500%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	9802	0.479	ppbv	95
3) Chlorodifluoromethane	1.466	51	58445	3.001	ppbv #	62
4) Chloromethane	1.534	50	5300	0.655	ppbv #	81
6) Bromomethane	1.664	94	181	0.048	ppbv #	31
7) Chloroethane	1.699	64	134	0.042	ppbv #	75
8) Dichlorotetrafluoroethane	1.554	85	651	0.037	ppbv #	60
9) Propene	1.557	41	74678	8.419	ppbv	93
10) Heptane	4.978	43	213280	8.559	ppbv	95
11) Trichlorofluoromethane	1.877	101	4337	0.223	ppbv	92
12) 1,1,2-Trichlorotrifluo...	2.140	101	1353	0.085	ppbv	88
13) Ethanol	1.722	45	387433	274.810	ppbv	76
15) Acetone	1.835	43	2882826	152.118	ppbv #	50
16) 1,3-Butadiene	1.622	39	32554	3.591	ppbv #	15
17) tert-Butyl alcohol	2.272	59	39943	1.701	ppbv	98
19) Isopropyl Alcohol	1.887	45	311784	29.616	ppbv #	33
20) Methylene Chloride	2.062	84	21493	2.896	ppbv	95
21) Allyl Chloride	2.042	41	4252	0.325	ppbv #	24
22) trans-1,2-Dichloroethene	2.340	96	269	0.032	ppbv #	17
23) Vinyl Acetate	2.473	43	79985	10.427	ppbv #	56
25) Ethyl Acetate	2.826	43	85250	1.824	ppbv #	85
26) Hexane	2.826	57	104975	5.551	ppbv #	36
27) Carbon Disulfide	2.149	76	1100	0.054	ppbv #	54
28) Methyl tert-Butyl Ether	2.444	73	452	0.036	ppbv #	48
29) Chloroform	2.852	83	1851	0.069	ppbv	89
30) Cyclohexane	3.855	84	32446	2.123	ppbv	89
34) 2-Butanone	2.560	43	31500	1.203	ppbv	99
36) Benzene	3.658	78	67666	1.894	ppbv	98
37) 1,2-Dichloroethane	3.221	62	4202	0.196	ppbv #	88
39) 1,2-Dichloropropane	3.955	63	89351	6.713	ppbv #	23
41) Tetrahydrofuran	3.065	42	3416	0.224	ppbv #	83
43) Methyl Methacrylate	4.897	69	2330	0.145	ppbv #	1
44) 2,2,4-Trimethylpentane	4.641	57	1192538	19.331	ppbv	95
50) 4-Methyl-2-Pentanone	5.768	43	3804	0.087	ppbv #	39
51) 2-Hexanone	7.419	43	81232	2.081	ppbv #	32
52) Tetrachloroethene	8.228	164	1403	0.102	ppbv #	65
53) Toluene	6.933	91	2204506	51.432	ppbv	99
58) Ethyl Benzene	9.354	91	646931	11.323	ppbv	100
59) m/p-Xylene	9.532	91	1789840	38.886	ppbv	100
60) o-Xylene	9.963	91	709518	15.308	ppbv	99
61) Styrene	9.869	104	8504	0.384	ppbv #	91
62) Isopropylbenzene	10.539	105	67289	0.989	ppbv	100
64) n-propylbenzene	10.989	120	58634	3.428	ppbv	95
65) tert-Butylbenzene	11.539	119	126017	2.015	ppbv #	72

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042369.D
Acq On : 17 Apr 2025 21:45
Operator : SY/MD
Sample : Q1726-04
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

Quant Time: Apr 18 02:44:30 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

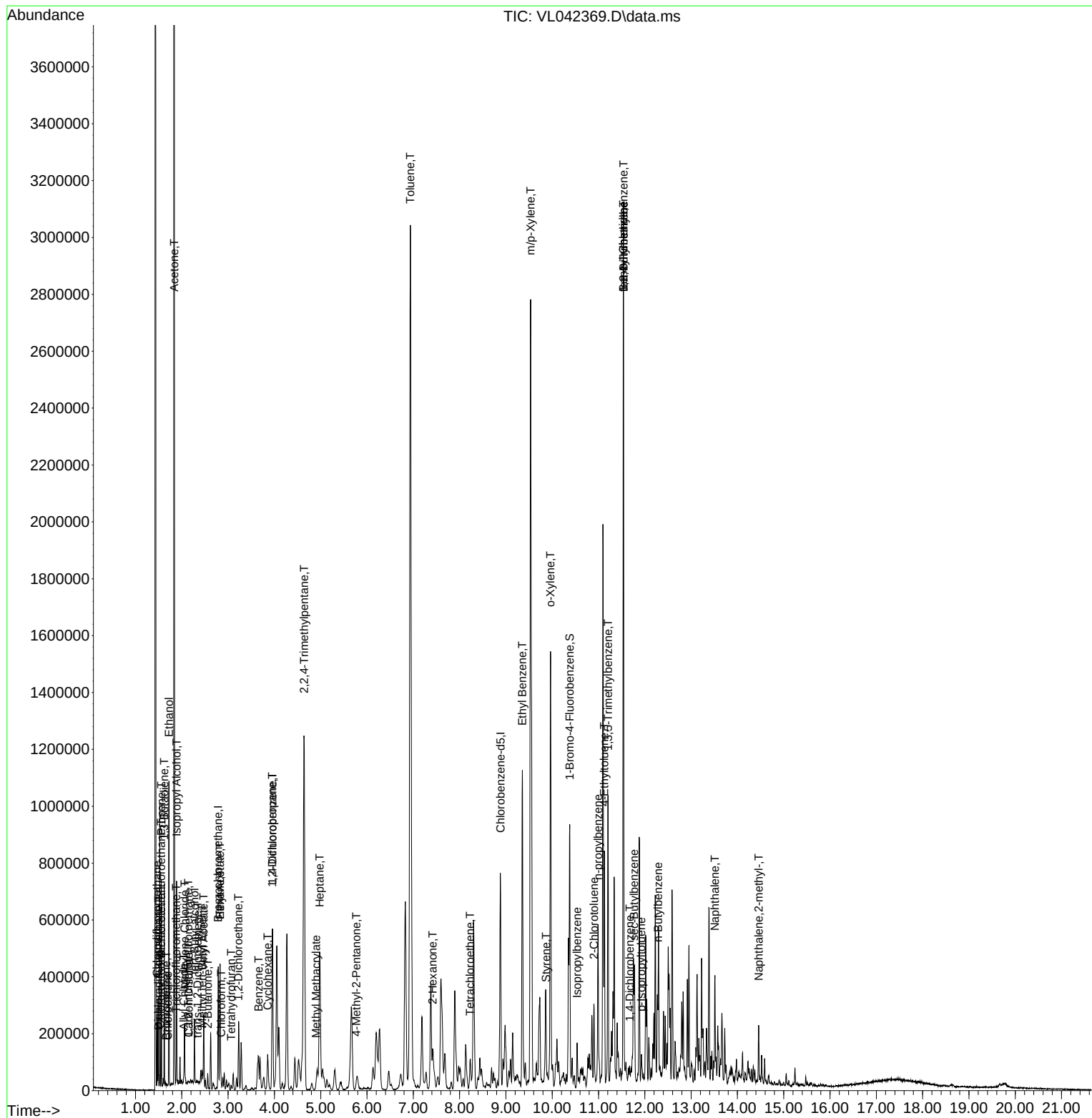
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
66) Benzyl Chloride	11.536	91	143029	20.811	ppbv #	70
67) sec-Butylbenzene	11.769	105	20996	0.241	ppbv #	77
69) p-Isopropyltoluene	11.924	119	33273	0.440	ppbv	98
70) n-Butylbenzene	12.286	91	102145	1.298	ppbv #	35
71) 2-Chlorotoluene	10.901	91	54169	1.015	ppbv	97
72) 4-Ethyltoluene	11.124	105	313941	5.540	ppbv #	56
73) 1,3,5-Trimethylbenzene	11.205	105	354735	7.091	ppbv	100
74) 1,2,4-Trimethylbenzene	11.539	105	1151476	19.707	ppbv #	65
76) 1,4-Dichlorobenzene	11.671	146	10434	0.342	ppbv #	50
79) Naphthalene	13.513	128	166277	2.380	ppbv	98
80) Naphthalene,2-methyl-	14.458	142	50980	1.280	ppbv	96

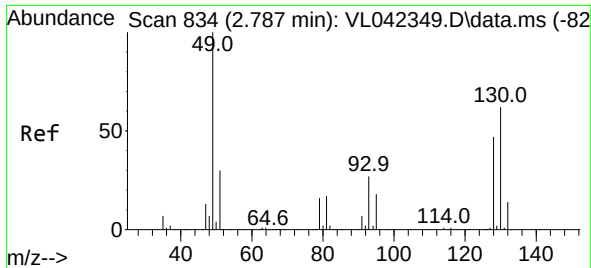
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042369.D
Acq On : 17 Apr 2025 21:45
Operator : SY/MD
Sample : Q1726-04
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

Quant Time: Apr 18 02:44:30 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

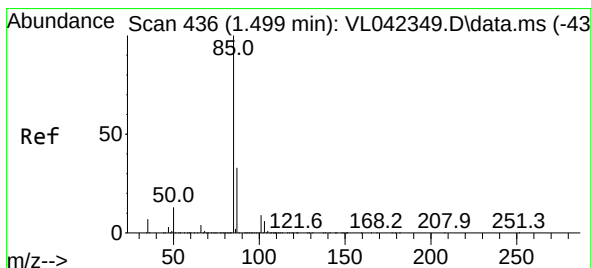
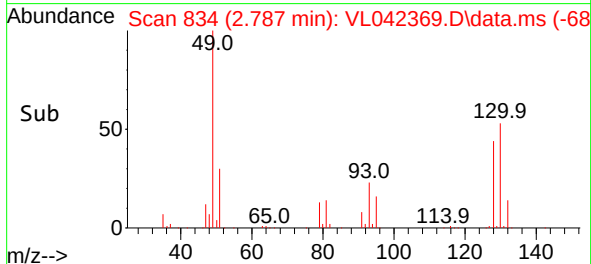
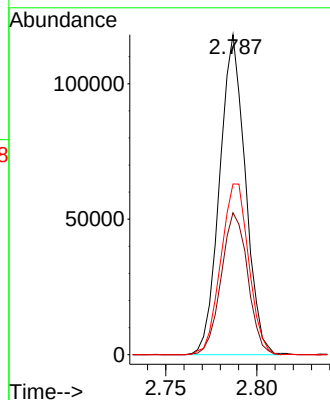
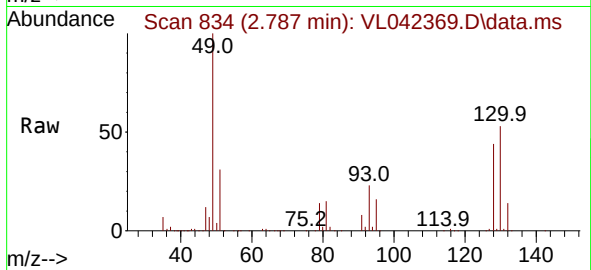




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.787 min Scan# 834
 Delta R.T. -0.000 min
 Lab File: VL042369.D
 Acq: 17 Apr 2025 21:45

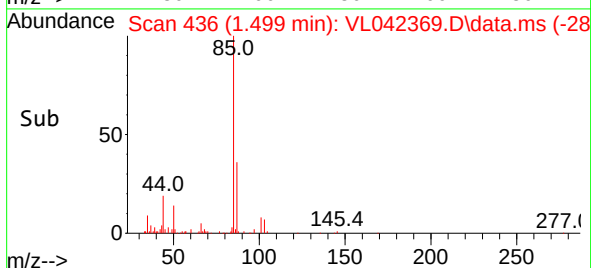
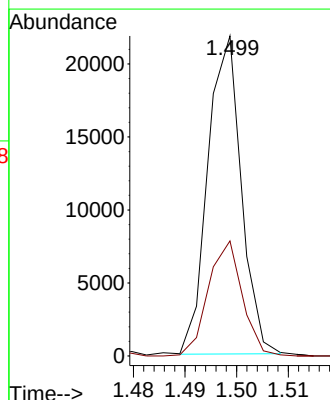
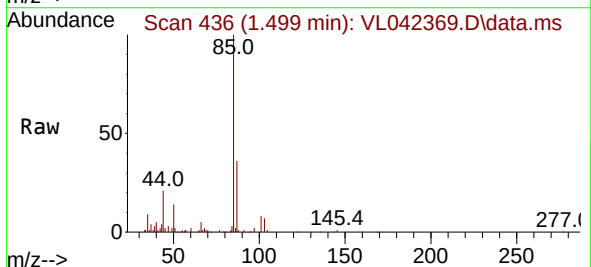
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-5-03312025

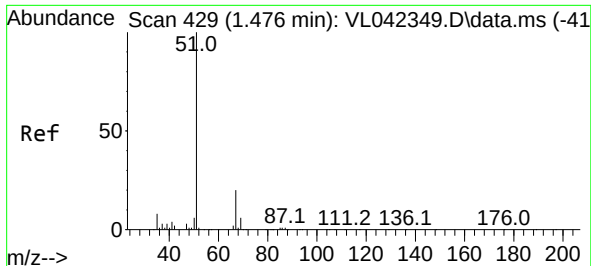
Tgt Ion: 49 Resp: 115766
 Ion Ratio Lower Upper
 49 100
 128 45.8 22.8 68.4
 130 58.0 29.3 88.0



#2
 Dichlorodifluoromethane
 Concen: 0.479 ppbv
 RT: 1.499 min Scan# 436
 Delta R.T. -0.000 min
 Lab File: VL042369.D
 Acq: 17 Apr 2025 21:45

Tgt Ion: 85 Resp: 9802
 Ion Ratio Lower Upper
 85 100
 87 35.9 26.6 39.8

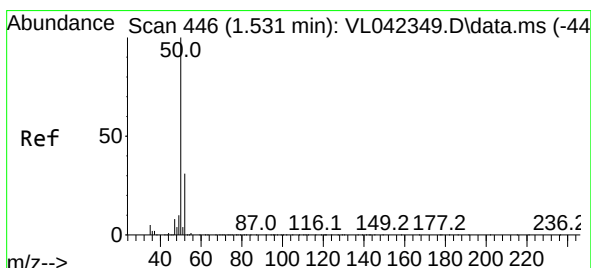
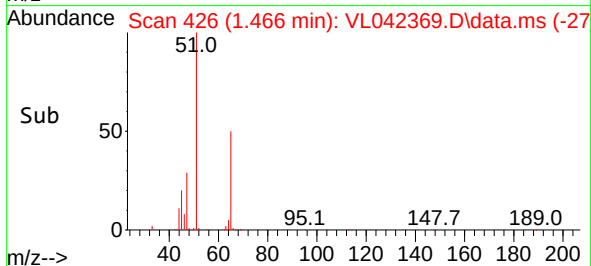
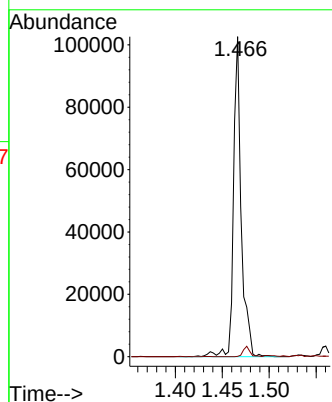
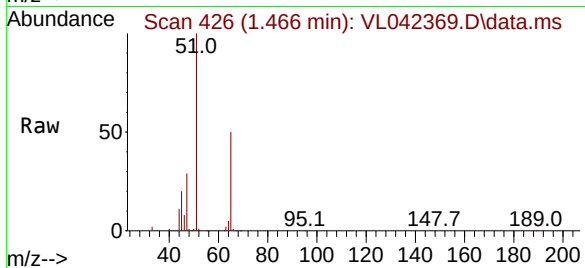




#3
Chlorodifluoromethane
Concen: 3.001 ppbv
RT: 1.466 min Scan# 41
Delta R.T. -0.010 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

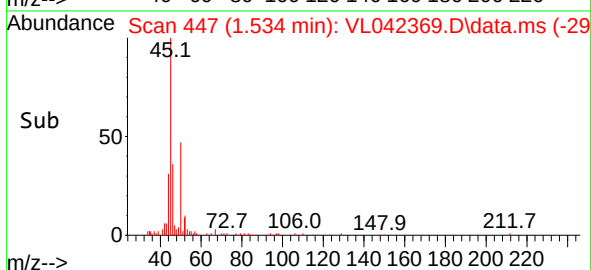
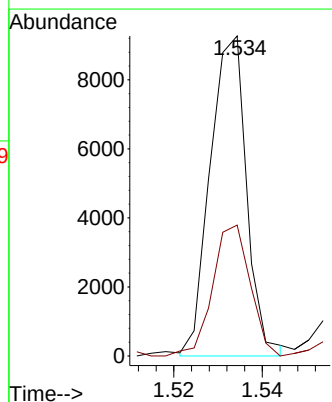
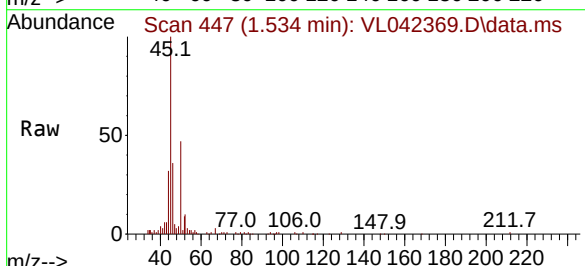
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

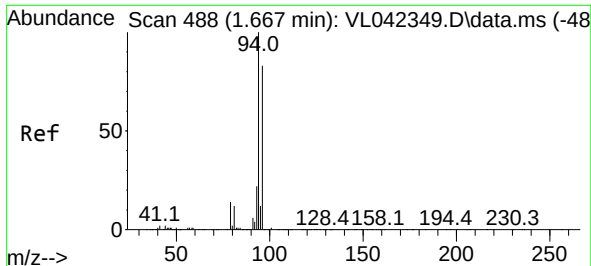
Tgt Ion: 51 Resp: 58445
Ion Ratio Lower Upper
51 100
67 2.9 16.2 24.4#



#4
Chloromethane
Concen: 0.655 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion: 50 Resp: 5300
Ion Ratio Lower Upper
50 100
52 41.3 24.7 37.1#

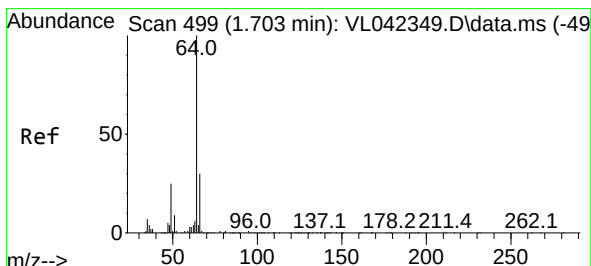
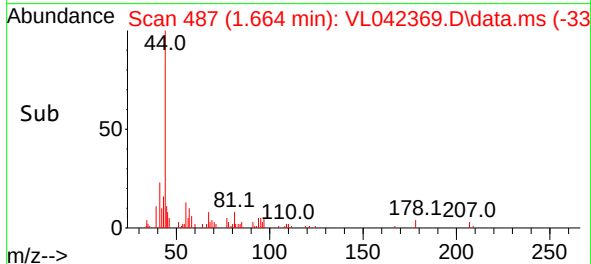
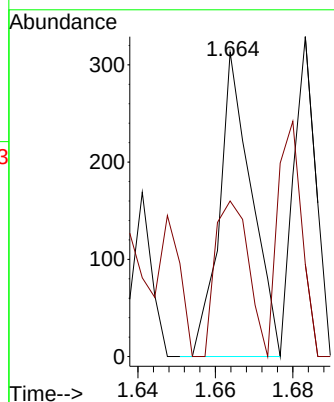
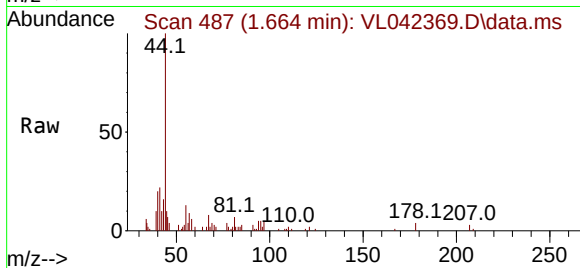




#6
Bromomethane
Concen: 0.048 ppbv
RT: 1.664 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

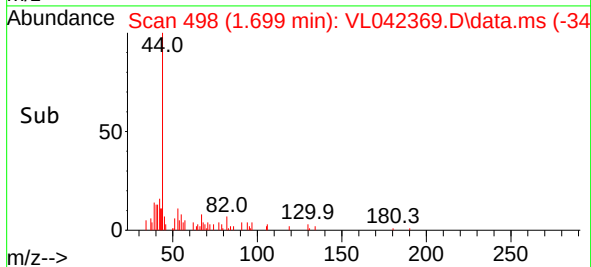
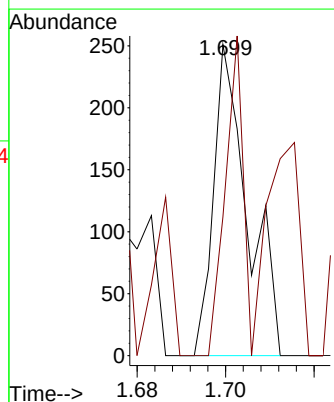
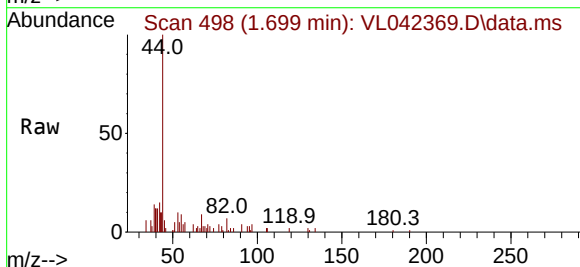
Instrument :
MSVOA_1
ClientSampleId :
IA-B2-5-03312025

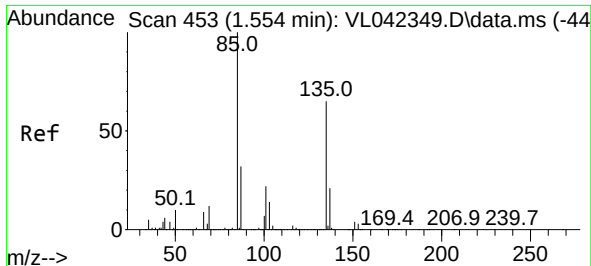
Tgt Ion: 94 Resp: 181
Ion Ratio Lower Upper
94 100
96 20.4 66.2 99.2#



#7
Chloroethane
Concen: 0.042 ppbv
RT: 1.699 min Scan# 498
Delta R.T. -0.003 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion: 64 Resp: 134
Ion Ratio Lower Upper
64 100
66 44.6 24.6 37.0#

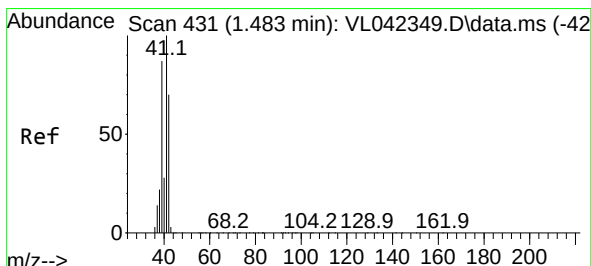
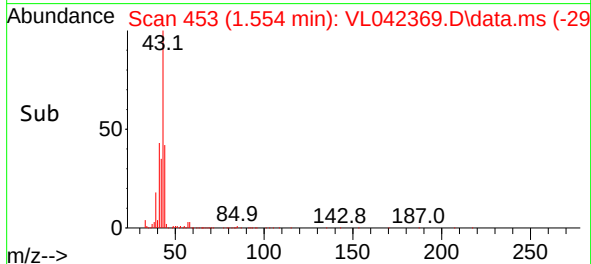
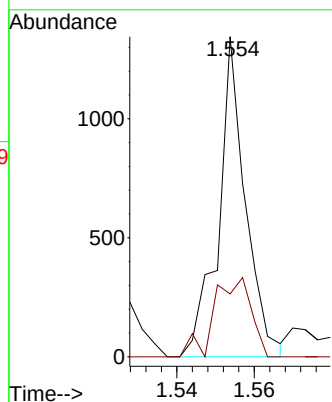
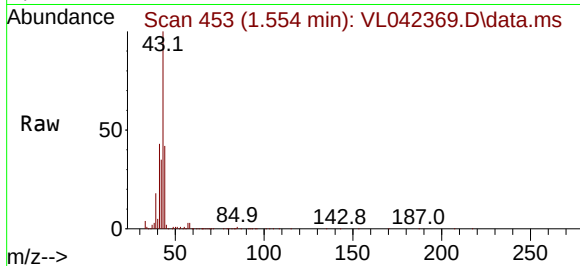




#8
Dichlorotetrafluoroethane
Concen: 0.037 ppbv
RT: 1.554 min Scan# 411
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

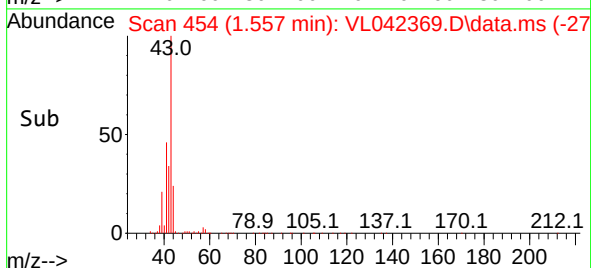
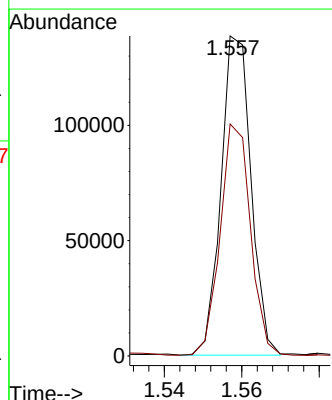
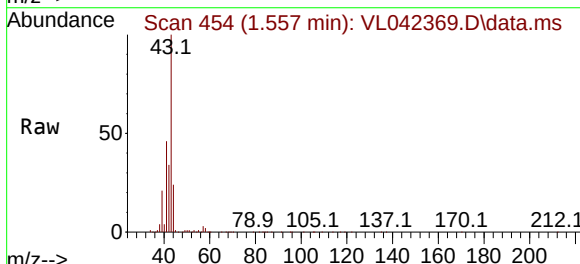
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

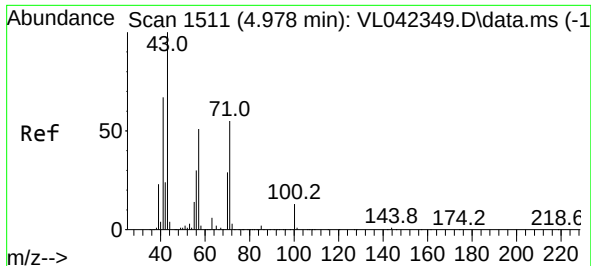
Tgt Ion: 85 Resp: 651
Ion Ratio Lower Upper
85 100
135 33.9 52.2 78.2#



#9
Propene
Concen: 8.419 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.074 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion: 41 Resp: 74678
Ion Ratio Lower Upper
41 100
42 75.7 56.2 84.4

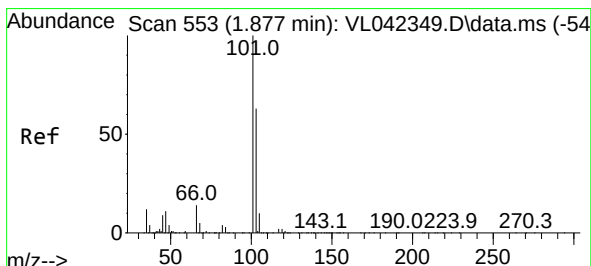
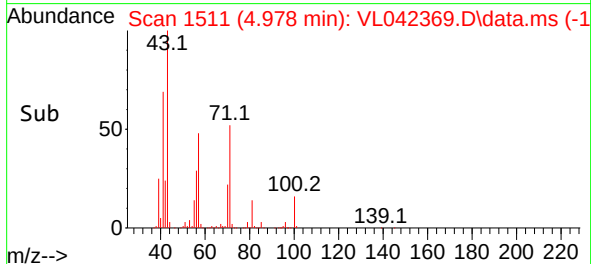
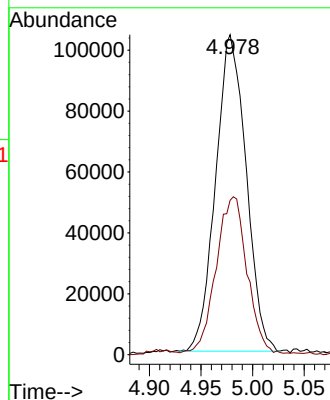
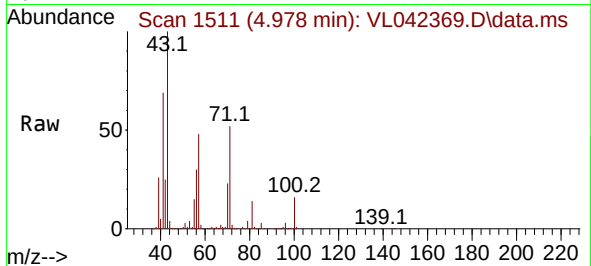




#10
 Heptane
 Concen: 8.559 ppbv
 RT: 4.978 min Scan# 1511
 Delta R.T. -0.000 min
 Lab File: VL042369.D
 Acq: 17 Apr 2025 21:45

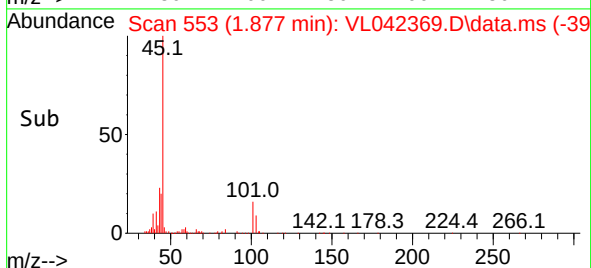
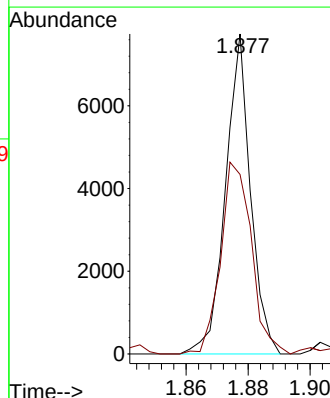
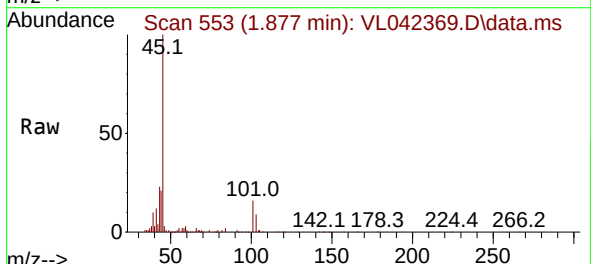
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-5-03312025

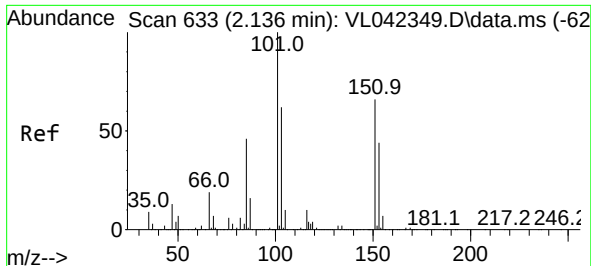
Tgt Ion: 43 Resp: 213280
 Ion Ratio Lower Upper
 43 100
 57 53.1 39.9 59.9



#11
 Trichlorofluoromethane
 Concen: 0.223 ppbv
 RT: 1.877 min Scan# 553
 Delta R.T. -0.000 min
 Lab File: VL042369.D
 Acq: 17 Apr 2025 21:45

Tgt Ion: 101 Resp: 4337
 Ion Ratio Lower Upper
 101 100
 103 56.1 50.1 75.1

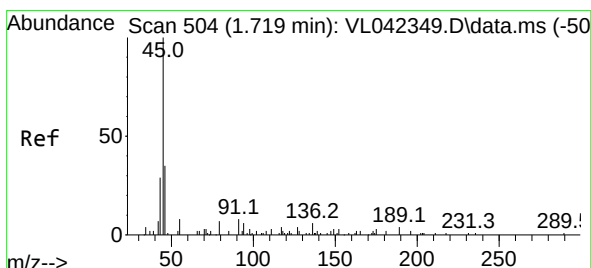
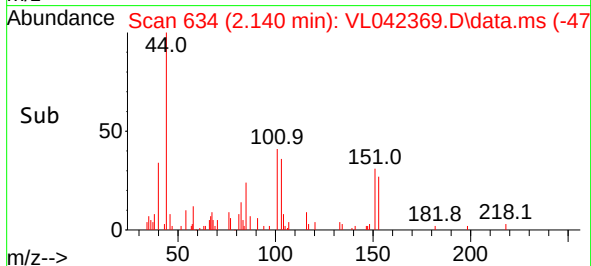
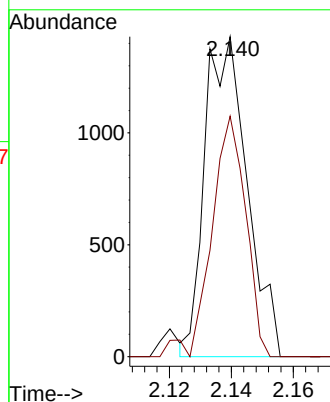
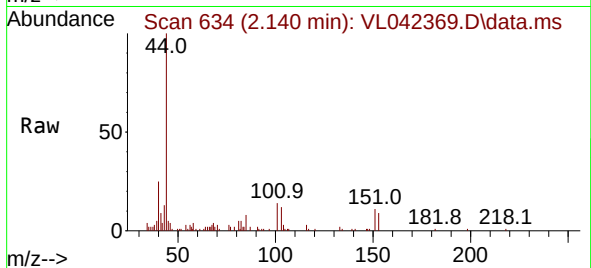




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.085 ppbv
RT: 2.140 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

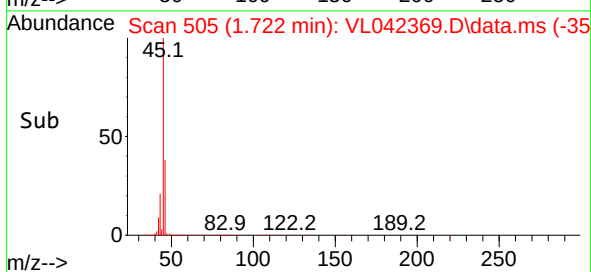
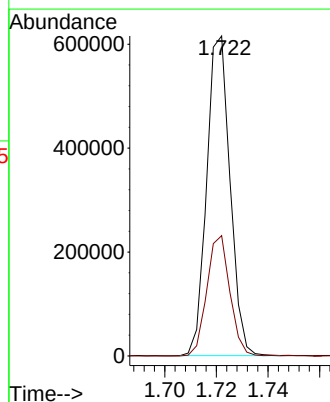
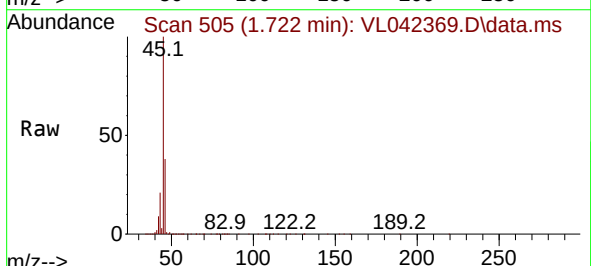
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

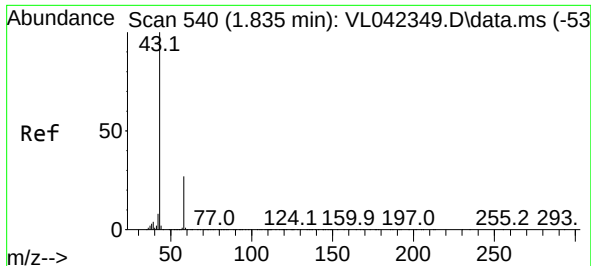
Tgt Ion:101 Resp: 1353
Ion Ratio Lower Upper
101 100
151 61.0 57.0 85.6



#13
Ethanol
Concen: 274.810 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion: 45 Resp: 387433
Ion Ratio Lower Upper
45 100
46 37.4 21.9 87.7

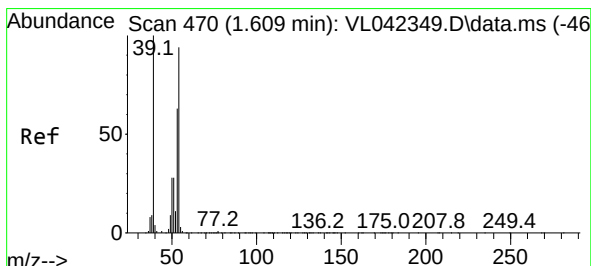
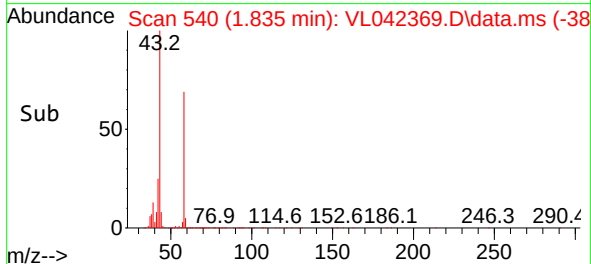
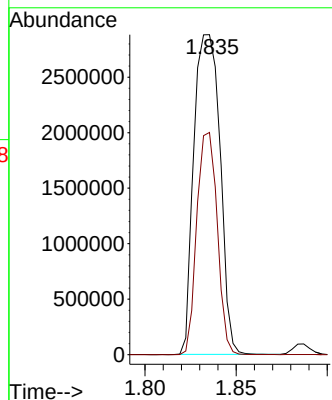
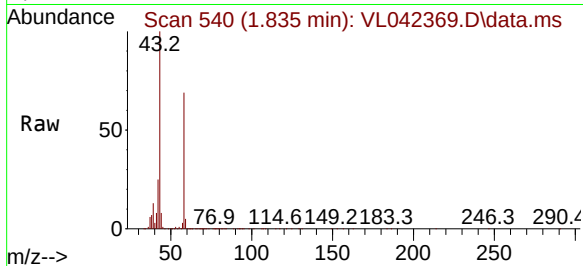




#15
Acetone
Concen: 152.118 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

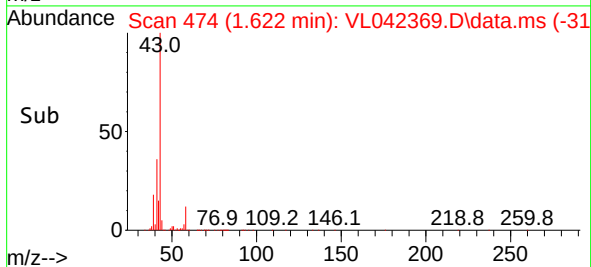
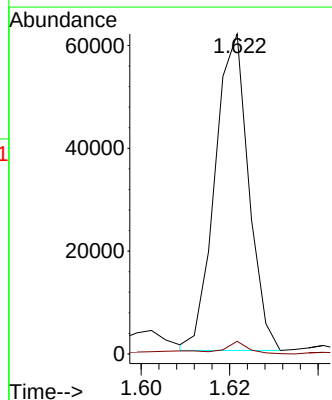
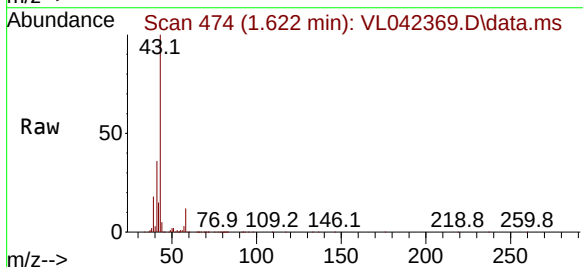
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

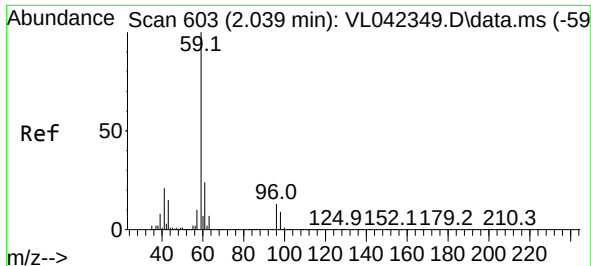
Tgt Ion: 43 Resp: 2882826
Ion Ratio Lower Upper
43 100
58 54.3 22.4 33.6#



#16
1,3-Butadiene
Concen: 3.591 ppbv
RT: 1.622 min Scan# 474
Delta R.T. 0.013 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion: 39 Resp: 32554
Ion Ratio Lower Upper
39 100
54 5.1 64.9 97.3#





#17

tert-Butyl alcohol

Concen: 1.701 ppbv

RT: 2.272 min Scan# 61

Delta R.T. 0.233 min

Lab File: VL042369.D

Acq: 17 Apr 2025 21:45

Instrument :

MSVOA_L

ClientSampleId :

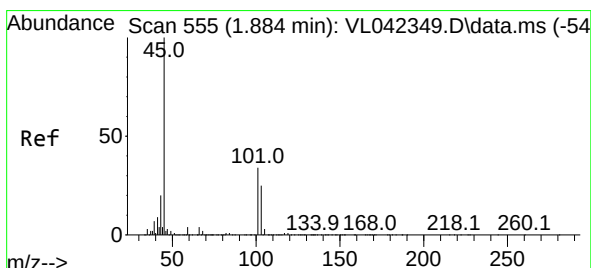
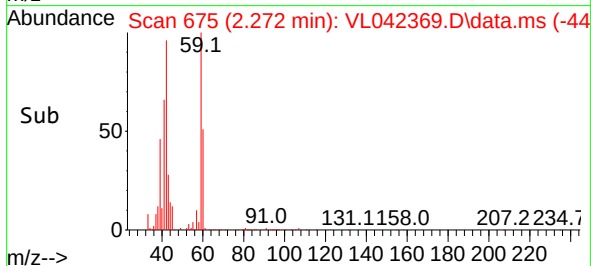
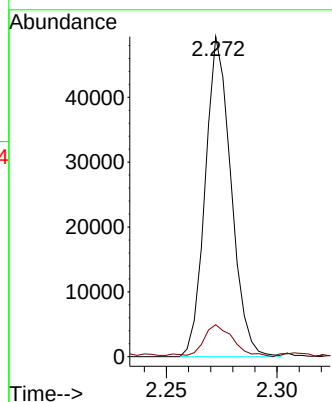
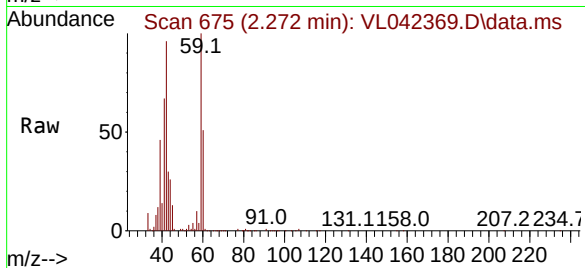
IA-B2-5-03312025

Tgt Ion: 59 Resp: 39943

Ion Ratio Lower Upper

59 100

57 11.6 8.7 13.1



#19

Isopropyl Alcohol

Concen: 29.616 ppbv

RT: 1.887 min Scan# 556

Delta R.T. 0.003 min

Lab File: VL042369.D

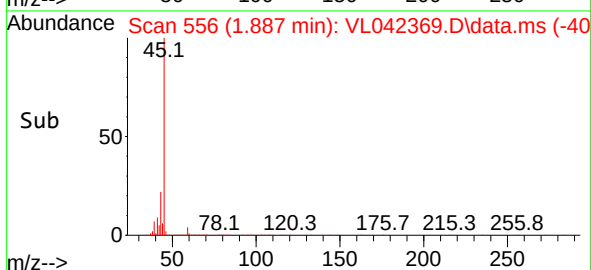
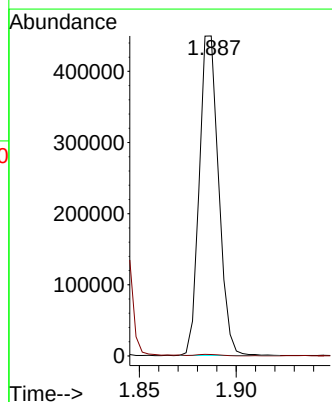
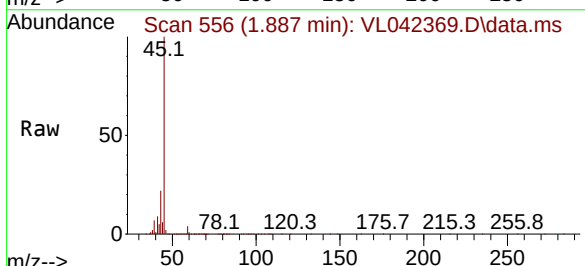
Acq: 17 Apr 2025 21:45

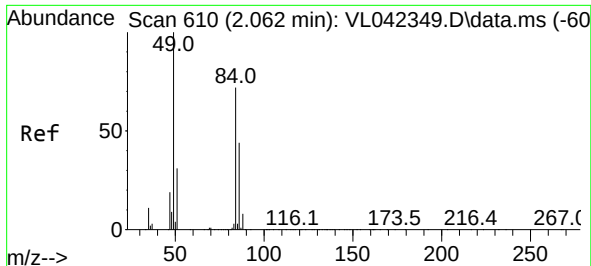
Tgt Ion: 45 Resp: 311784

Ion Ratio Lower Upper

45 100

58 0.0 34.5 51.7#

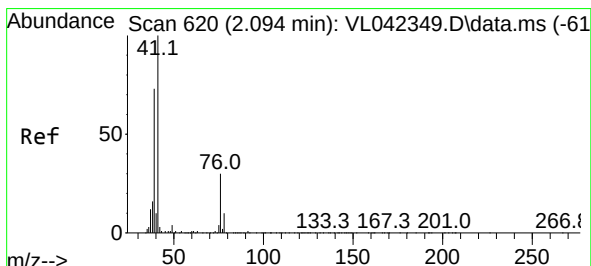
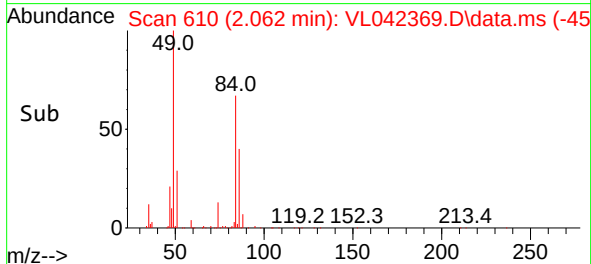
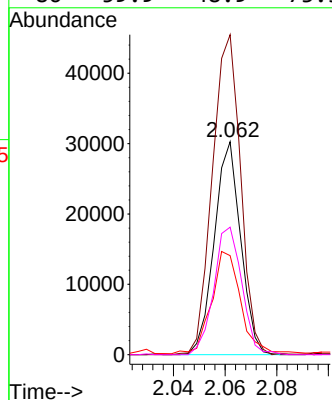
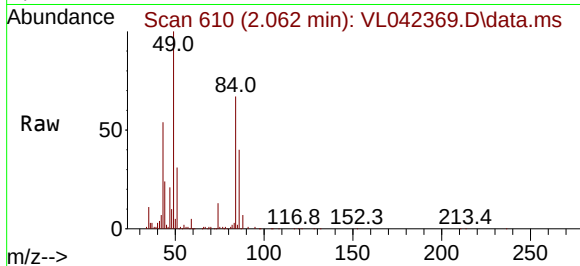




#20
Methylene Chloride
Concen: 2.896 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

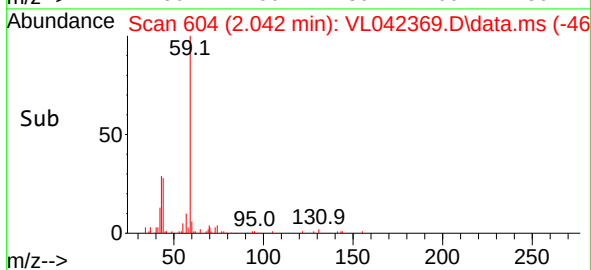
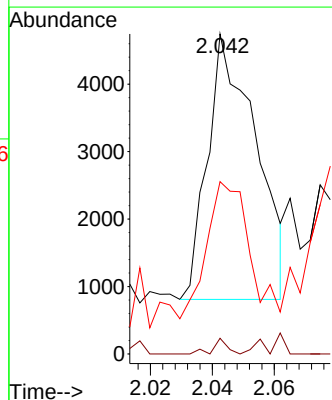
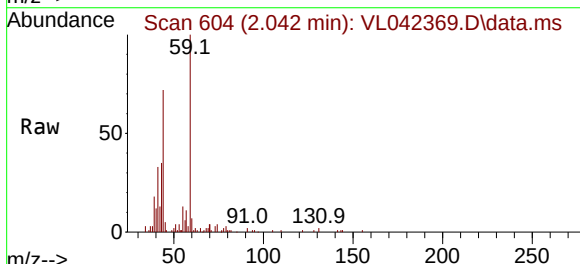
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

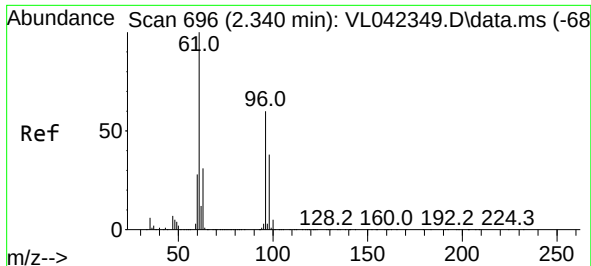
Tgt Ion:	84	Resp:	21493
Ion	Ratio	Lower	Upper
84	100		
49	149.6	111.6	167.4
51	45.0	35.1	52.7
86	59.9	48.9	73.3



#21
Allyl Chloride
Concen: 0.325 ppbv
RT: 2.042 min Scan# 604
Delta R.T. -0.052 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion:	41	Resp:	4252
Ion	Ratio	Lower	Upper
41	100		
76	6.1	24.8	37.2#
39	0.0	60.6	90.8#

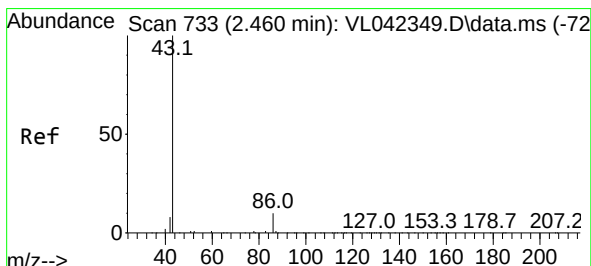
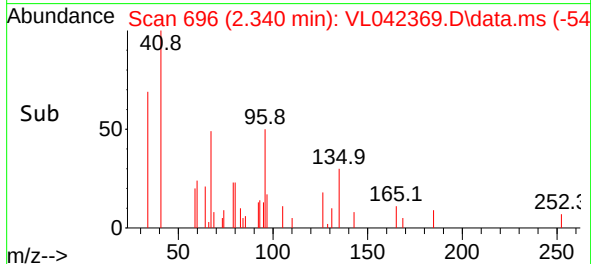
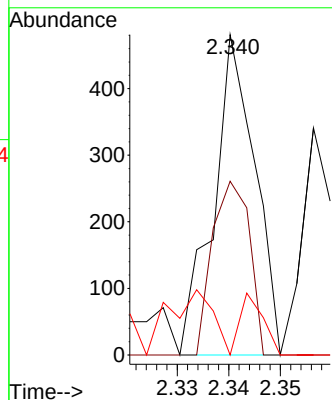
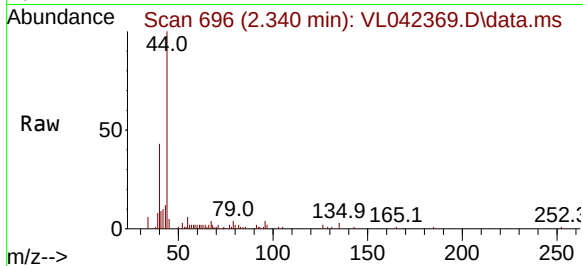




#22
trans-1,2-Dichloroethene
Concen: 0.032 ppbv
RT: 2.340 min Scan# 696
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

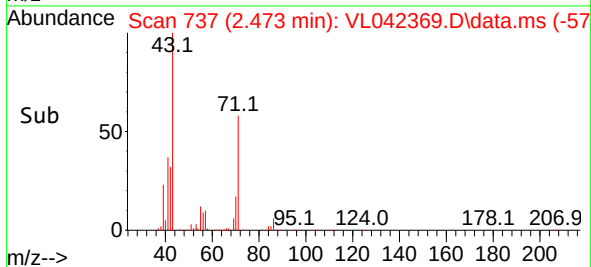
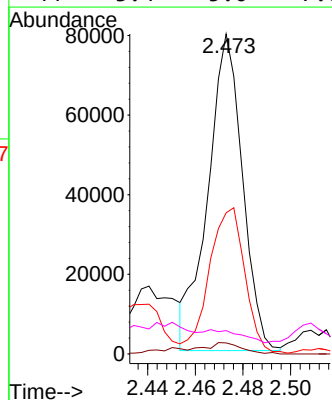
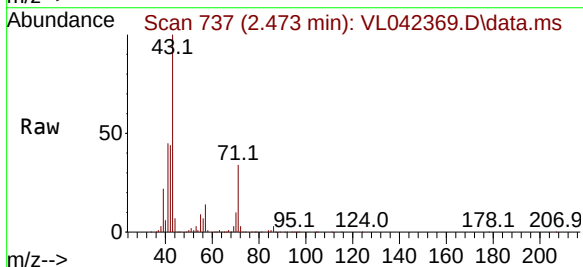
Instrument :
MSVOA_1
ClientSampleId :
IA-B2-5-03312025

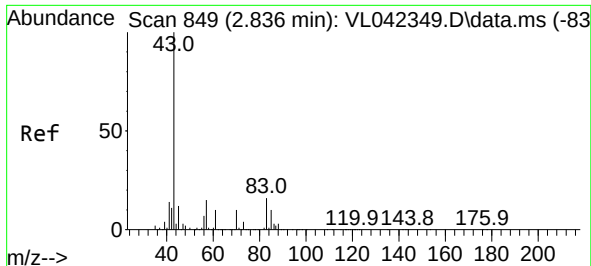
Tgt Ion: 96 Resp: 269
Ion Ratio Lower Upper
96 100
61 54.3 133.7 200.5#
98 0.0 50.3 75.5#



#23
Vinyl Acetate
Concen: 10.427 ppbv
RT: 2.473 min Scan# 737
Delta R.T. 0.013 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion: 43 Resp: 79985
Ion Ratio Lower Upper
43 100
86 3.5 6.5 9.7#
42 44.2 7.8 11.8#
44 3.4 5.0 7.6#

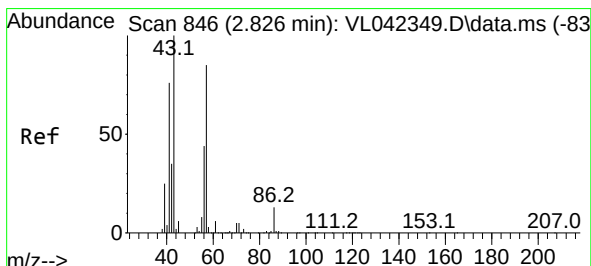
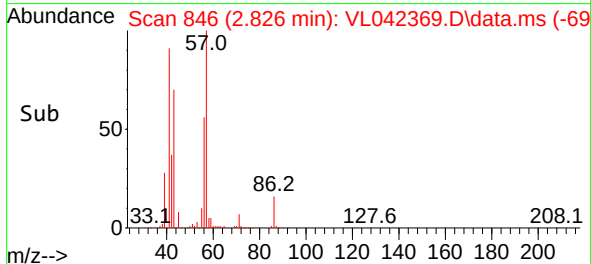
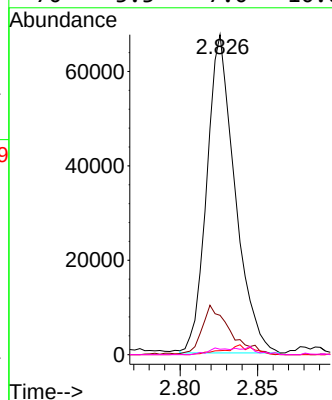
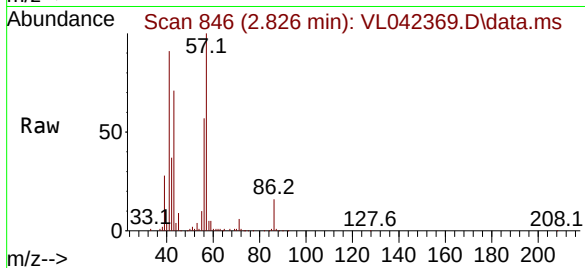




#25
Ethyl Acetate
Concen: 1.824 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.010 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

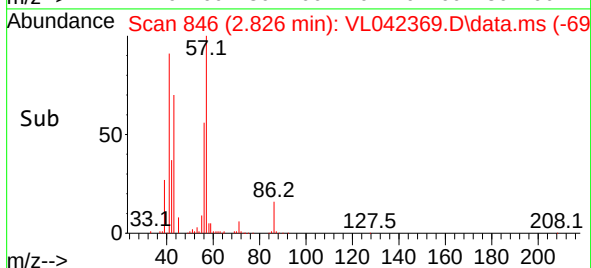
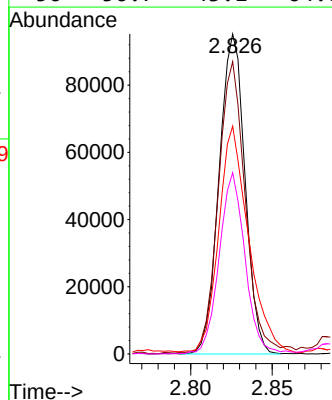
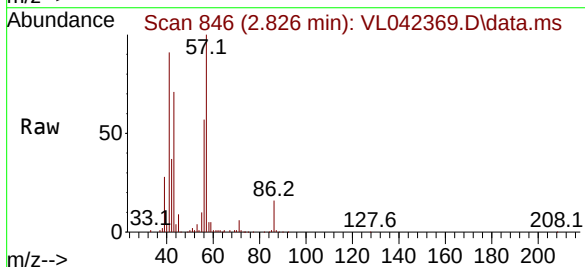
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

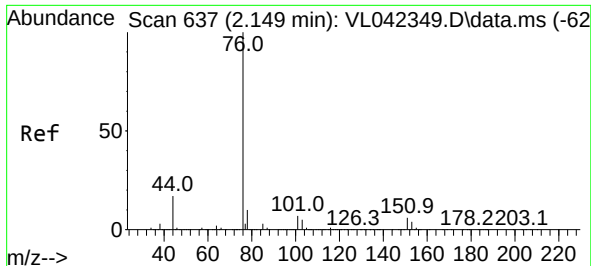
Tgt Ion:	43	Resp:	85250
Ion	Ratio	Lower	Upper
43	100		
45	16.0	8.3	12.5#
61	3.2	7.3	10.9#
70	3.3	7.0	10.6#



#26
Hexane
Concen: 5.551 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion:	57	Resp:	104975
Ion	Ratio	Lower	Upper
57	100		
41	96.7	77.9	116.9
43	80.2	208.4	312.6#
56	56.7	43.1	64.7





#27

Carbon Disulfide

Concen: 0.054 ppbv

RT: 2.149 min Scan# 61

Delta R.T. -0.000 min

Lab File: VL042369.D

Acq: 17 Apr 2025 21:45

Instrument :

MSVOA_L

ClientSampleId :

IA-B2-5-03312025

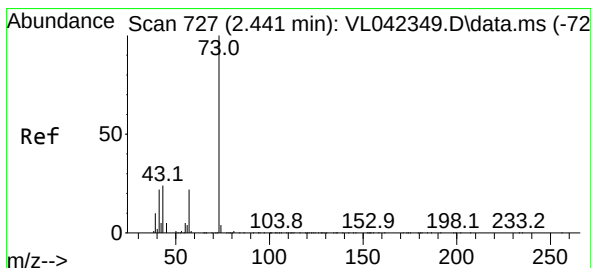
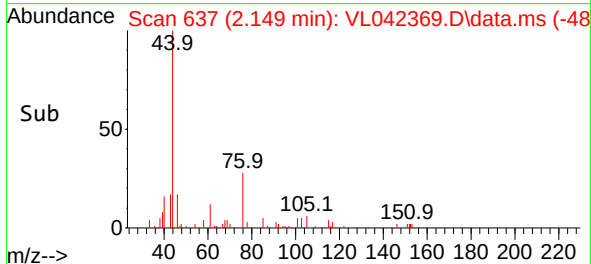
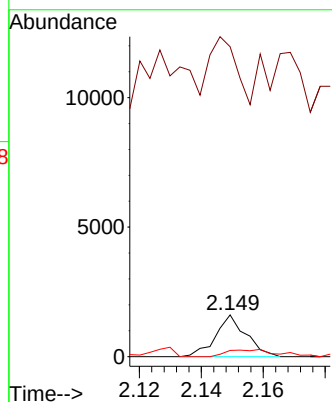
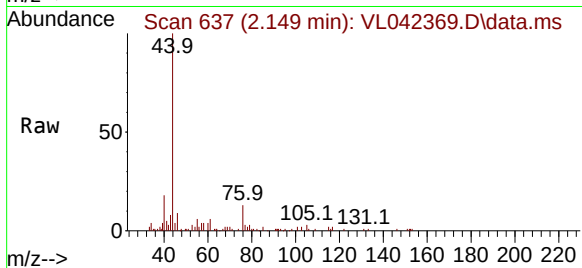
Tgt Ion: 76 Resp: 1100

Ion Ratio Lower Upper

76 100

44 0.0 15.5 23.3#

78 31.5 9.3 13.9#



#28

Methyl tert-Butyl Ether

Concen: 0.036 ppbv

RT: 2.444 min Scan# 728

Delta R.T. 0.003 min

Lab File: VL042369.D

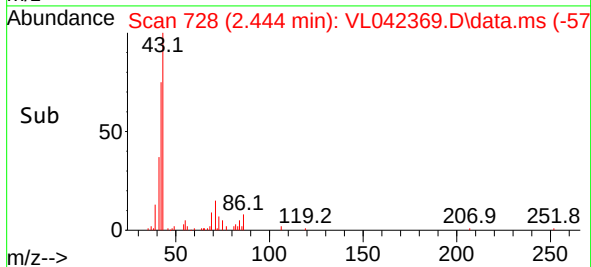
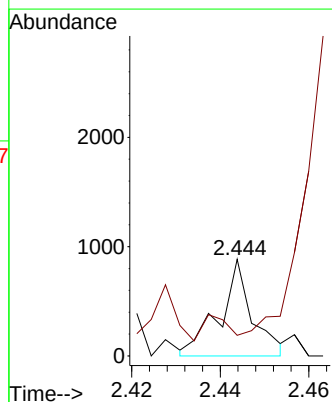
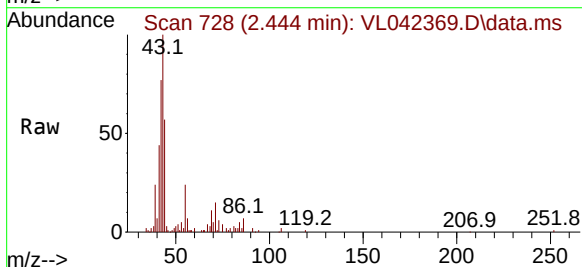
Acq: 17 Apr 2025 21:45

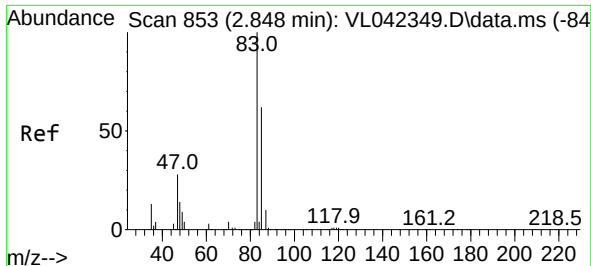
Tgt Ion: 73 Resp: 452

Ion Ratio Lower Upper

73 100

57 0.0 21.3 31.9#





#29

Chloroform

Concen: 0.069 ppbv

RT: 2.852 min Scan# 854

Delta R.T. 0.003 min

Lab File: VL042369.D

Acq: 17 Apr 2025 21:45

Instrument :

MSVOA_L

ClientSampleId :

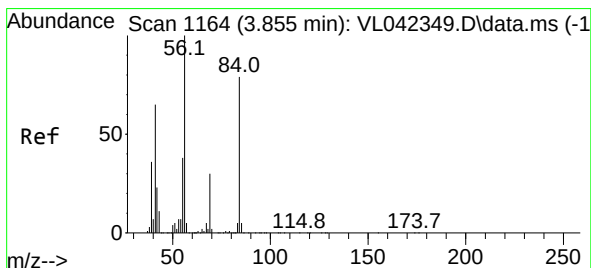
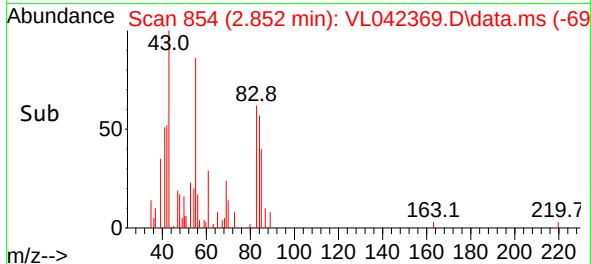
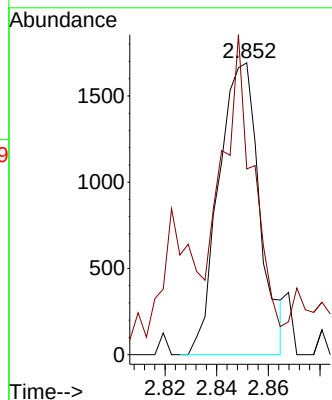
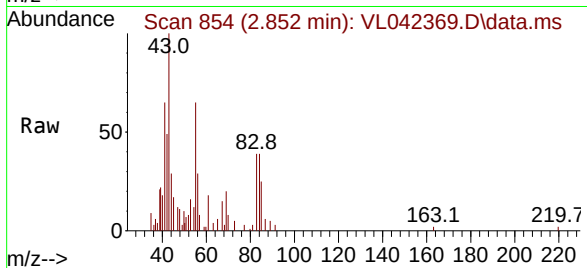
IA-B2-5-03312025

Tgt Ion: 83 Resp: 1851

Ion Ratio Lower Upper

83 100

85 54.1 50.0 75.0



#30

Cyclohexane

Concen: 2.123 ppbv

RT: 3.855 min Scan# 1164

Delta R.T. -0.000 min

Lab File: VL042369.D

Acq: 17 Apr 2025 21:45

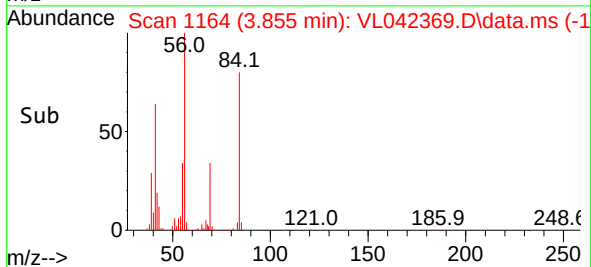
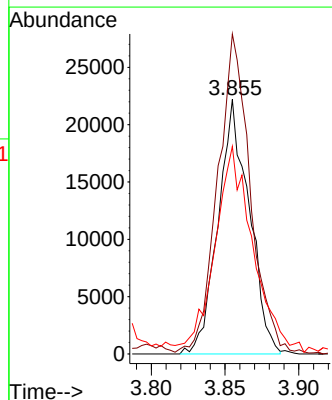
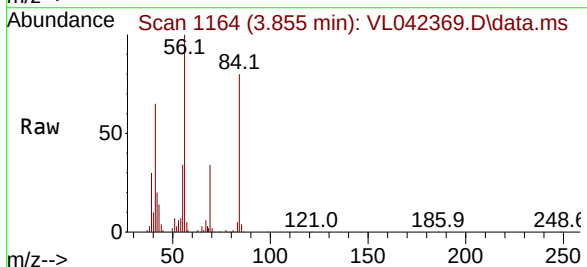
Tgt Ion: 84 Resp: 32446

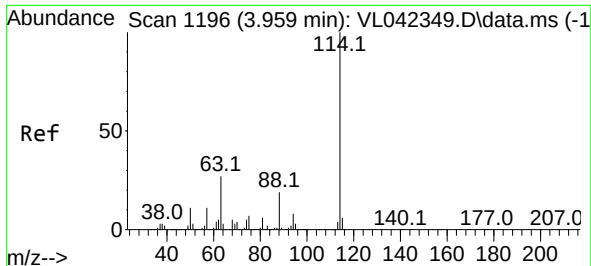
Ion Ratio Lower Upper

84 100

56 132.7 101.0 151.4

41 100.9 67.4 101.0

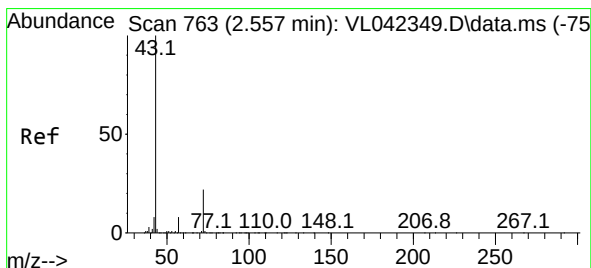
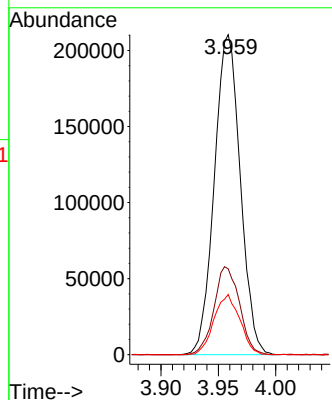
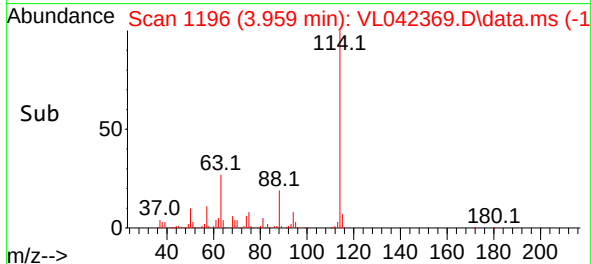
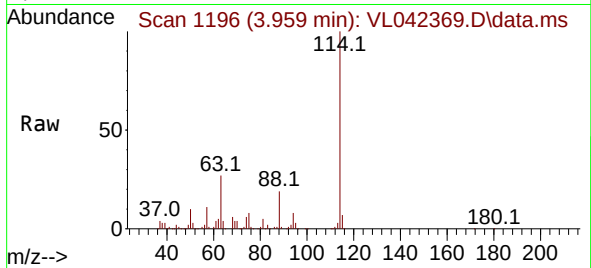




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.959 min Scan# 1196
 Delta R.T. -0.000 min
 Lab File: VL042369.D
 Acq: 17 Apr 2025 21:45

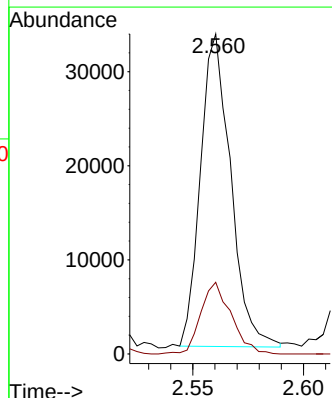
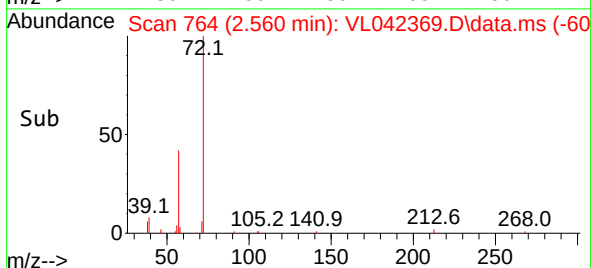
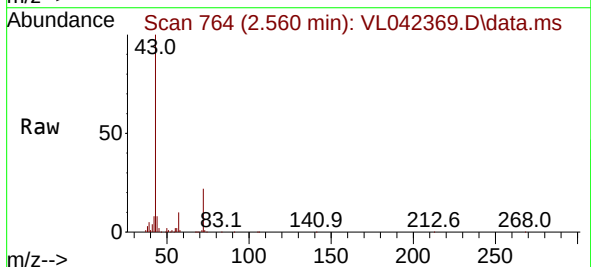
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-5-03312025

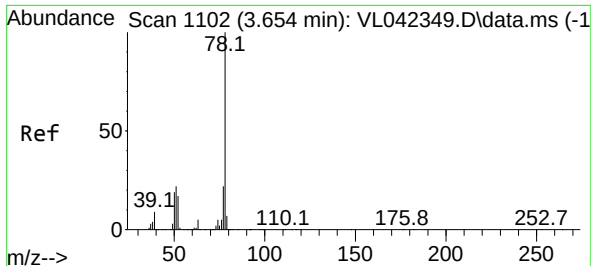
Tgt Ion:114 Resp: 331154
 Ion Ratio Lower Upper
 114 100
 63 27.0 21.8 32.6
 88 18.8 15.5 23.3



#34
 2-Butanone
 Concen: 1.203 ppbv
 RT: 2.560 min Scan# 764
 Delta R.T. 0.003 min
 Lab File: VL042369.D
 Acq: 17 Apr 2025 21:45

Tgt Ion: 43 Resp: 31500
 Ion Ratio Lower Upper
 43 100
 72 23.1 18.2 27.2

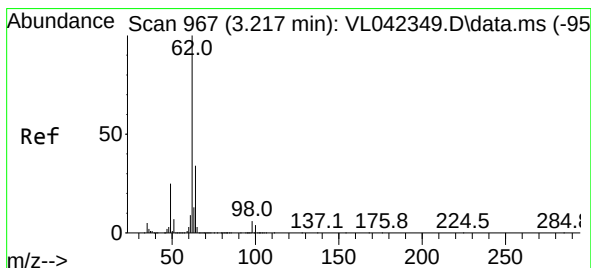
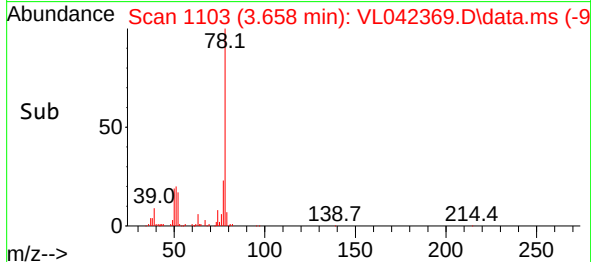
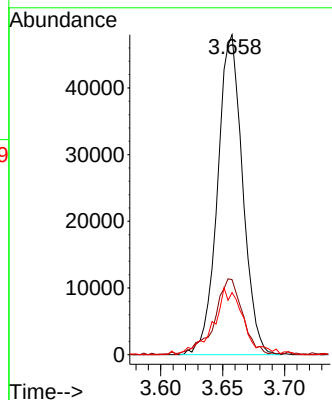
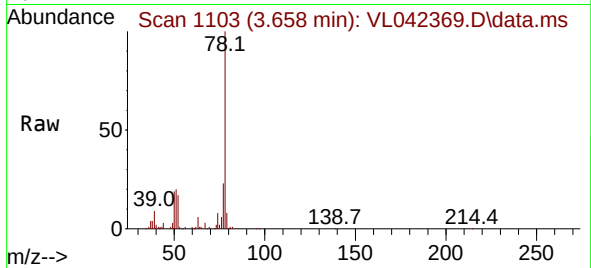




#36
Benzene
Concen: 1.894 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. 0.003 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

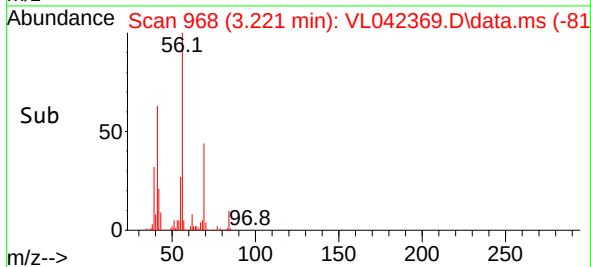
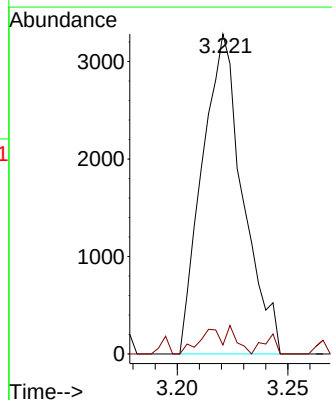
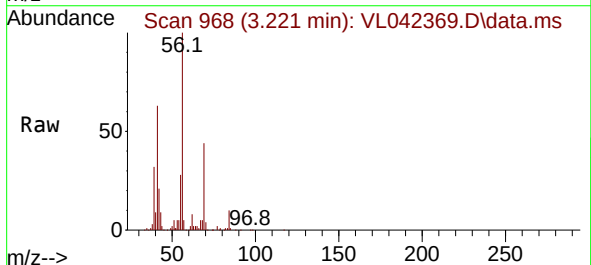
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

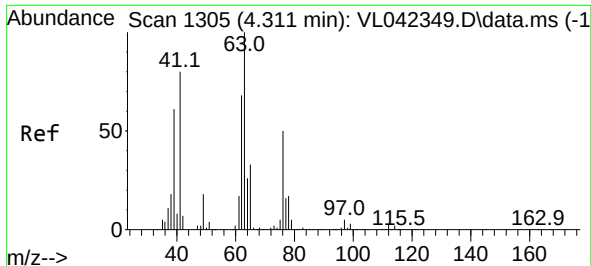
Tgt Ion: 78 Resp: 67666
Ion Ratio Lower Upper
78 100
77 23.1 17.4 26.0
50 19.1 15.5 23.3



#37
1,2-Dichloroethane
Concen: 0.196 ppbv
RT: 3.221 min Scan# 968
Delta R.T. 0.003 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion: 62 Resp: 4202
Ion Ratio Lower Upper
62 100
98 10.6 5.1 7.7#





#39

1,2-Dichloropropane

Concen: 6.713 ppbv

RT: 3.955 min Scan# 1195

Delta R.T. -0.356 min

Lab File: VL042369.D

Acq: 17 Apr 2025 21:45

Instrument :

MSVOA_L

ClientSampleId :

IA-B2-5-03312025

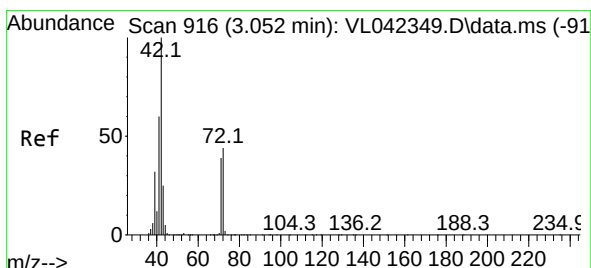
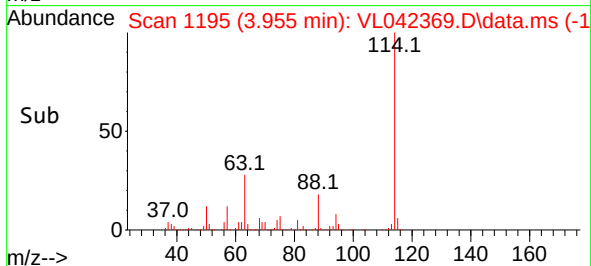
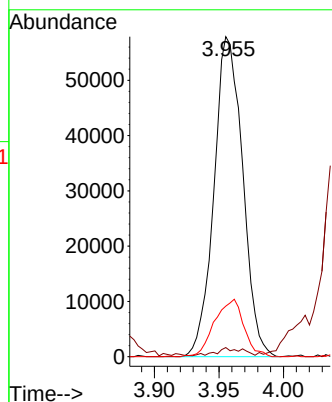
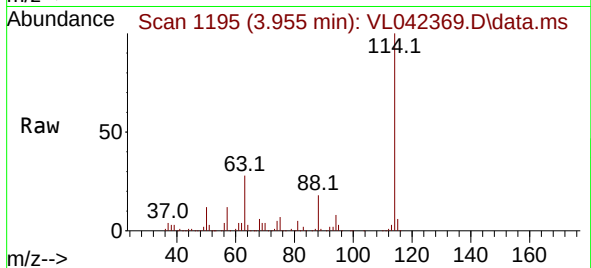
Tgt Ion: 63 Resp: 89351

Ion Ratio Lower Upper

63 100

41 2.1 64.2 96.2#

62 15.8 54.3 81.5#



#41

Tetrahydrofuran

Concen: 0.224 ppbv

RT: 3.065 min Scan# 920

Delta R.T. 0.013 min

Lab File: VL042369.D

Acq: 17 Apr 2025 21:45

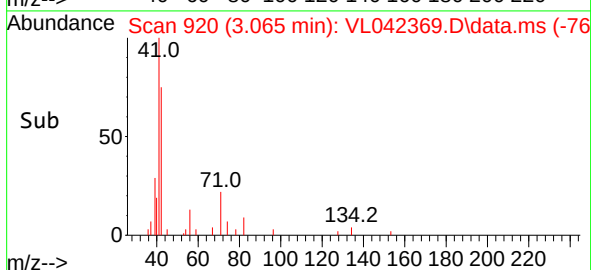
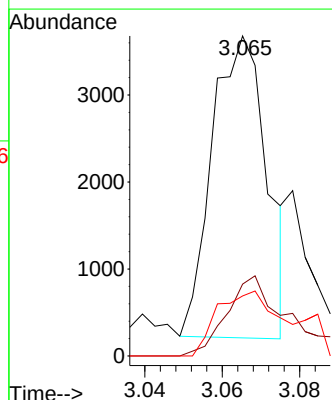
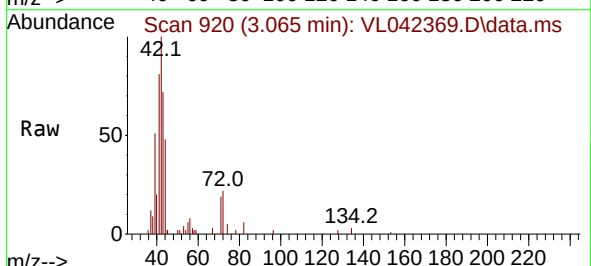
Tgt Ion: 42 Resp: 3416

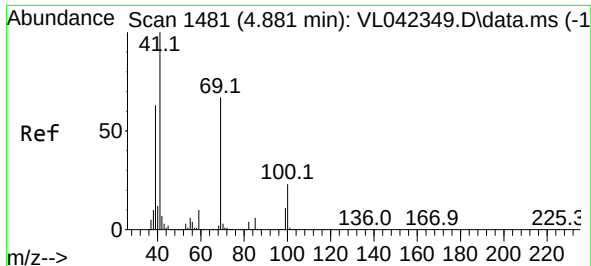
Ion Ratio Lower Upper

42 100

72 29.9 32.3 48.5#

71 28.8 31.4 47.2#

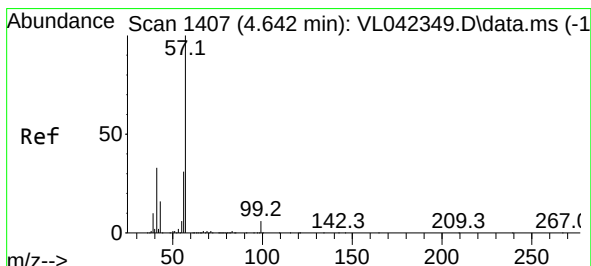
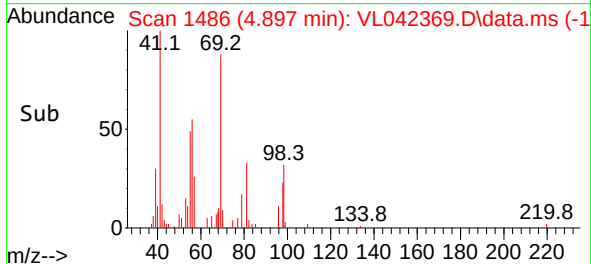
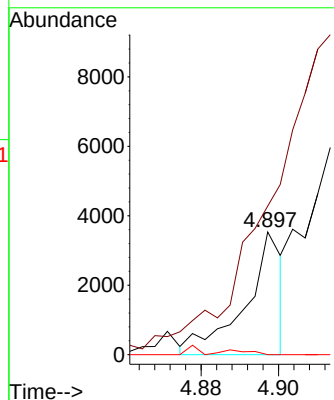
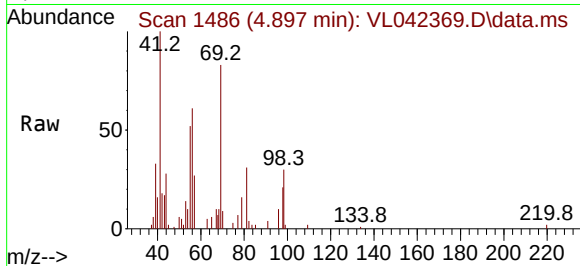




#43
Methyl Methacrylate
Concen: 0.145 ppbv
RT: 4.897 min Scan# 1486
Delta R.T. 0.016 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

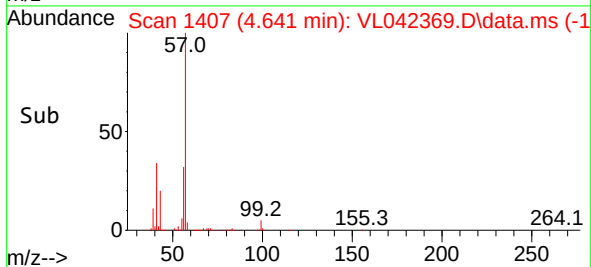
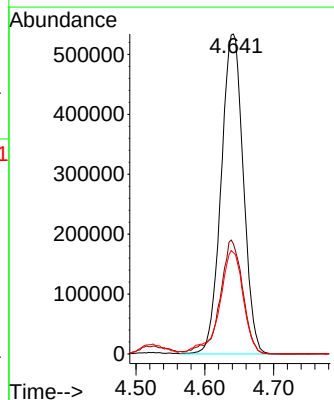
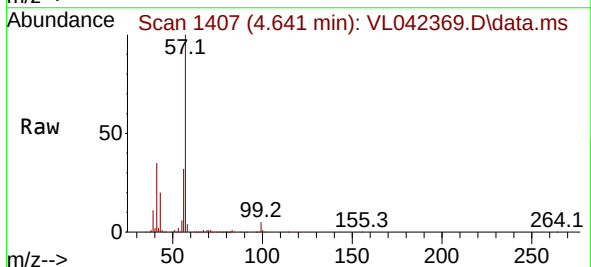
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

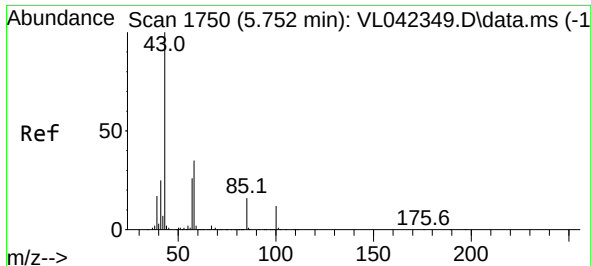
Tgt Ion: 69 Resp: 2330
Ion Ratio Lower Upper
69 100
41 0.0 118.6 177.8#
100 0.0 28.2 42.2#



#44
2,2,4-Trimethylpentane
Concen: 19.331 ppbv
RT: 4.641 min Scan# 1407
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion: 57 Resp: 1192538
Ion Ratio Lower Upper
57 100
41 36.7 27.2 40.8
56 34.7 25.7 38.5

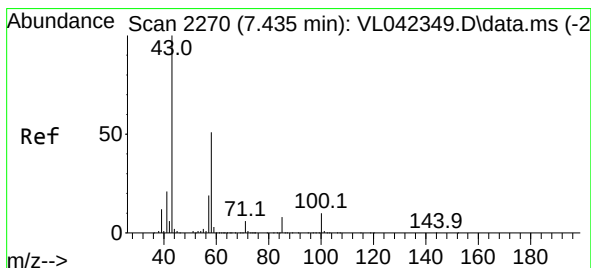
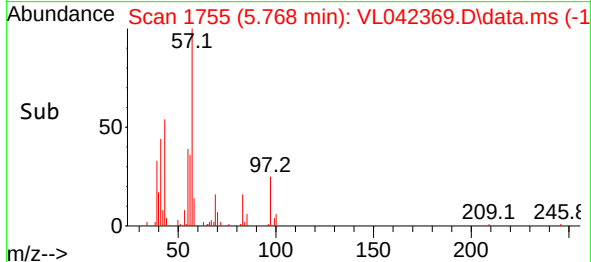
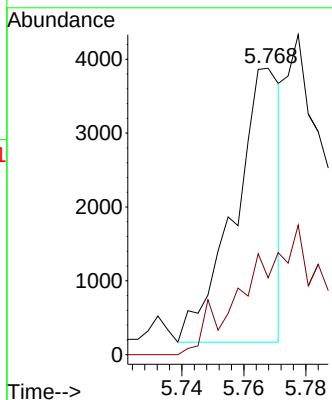
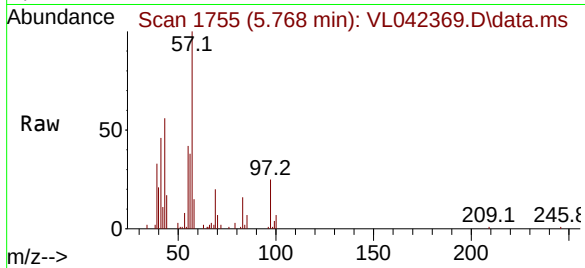




#50
4-Methyl-2-Pentanone
Concen: 0.087 ppbv
RT: 5.768 min Scan# 1755
Delta R.T. 0.016 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

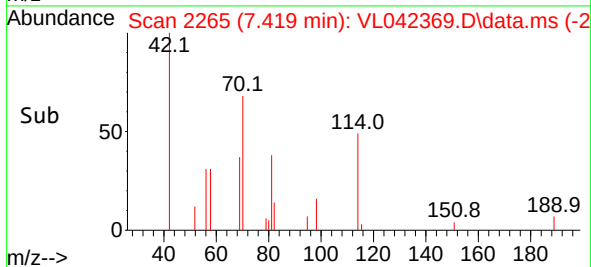
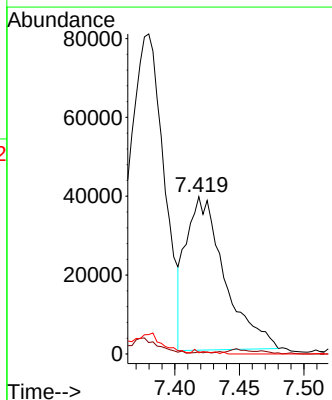
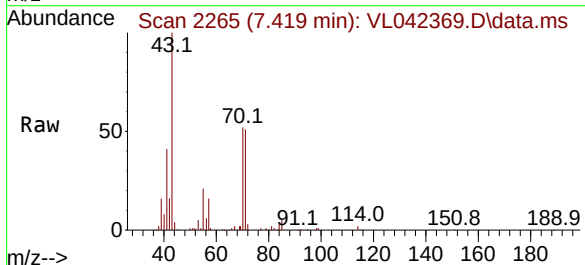
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

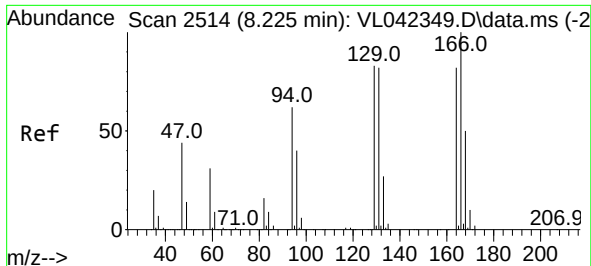
Tgt Ion: 43 Resp: 3804
Ion Ratio Lower Upper
43 100
58 0.0 28.6 43.0#



#51
2-Hexanone
Concen: 2.081 ppbv
RT: 7.419 min Scan# 2265
Delta R.T. -0.016 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion: 43 Resp: 81232
Ion Ratio Lower Upper
43 100
58 2.9 40.2 60.4#
98 0.0 0.1 0.1#

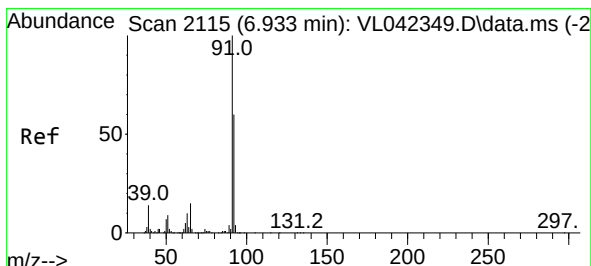
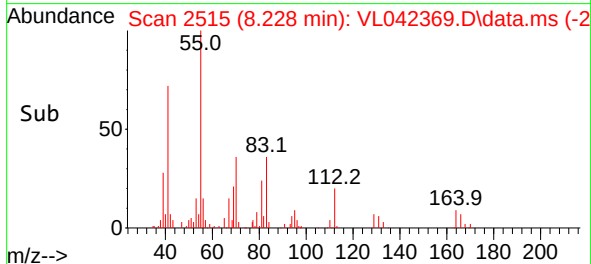
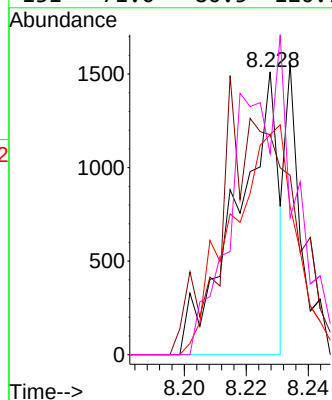
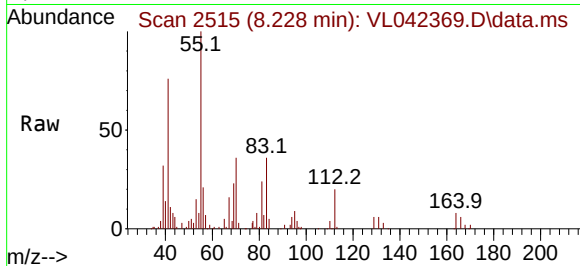




#52
Tetrachloroethene
Concen: 0.102 ppbv
RT: 8.228 min Scan# 2115
Delta R.T. 0.003 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

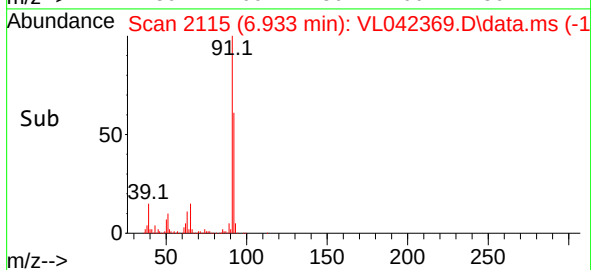
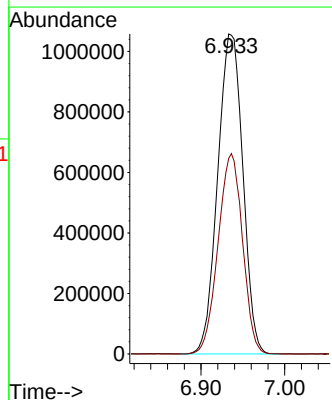
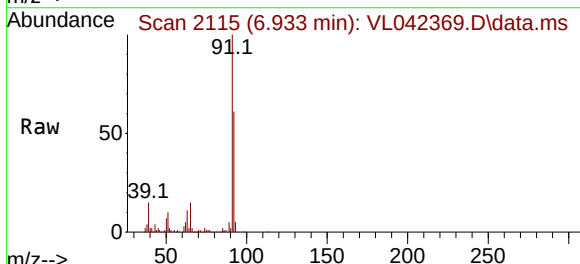
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

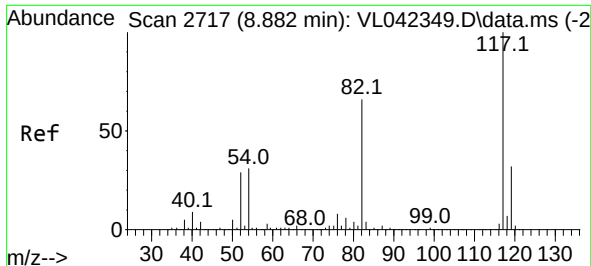
Tgt Ion:164 Resp: 1403
Ion Ratio Lower Upper
164 100
166 68.5 98.2 147.2#
129 77.8 81.8 122.8#
131 71.0 80.5 120.7#



#53
Toluene
Concen: 51.432 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion: 91 Resp: 2204506
Ion Ratio Lower Upper
91 100
92 60.8 48.2 72.4

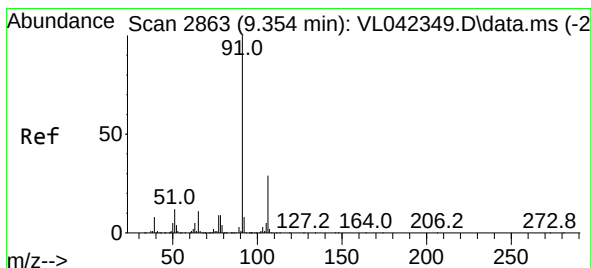
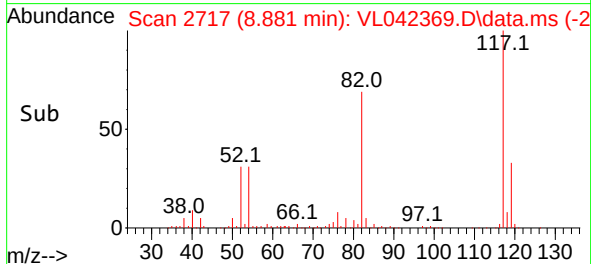
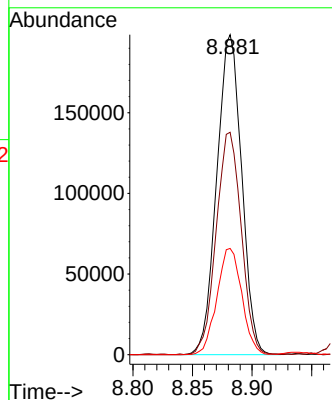
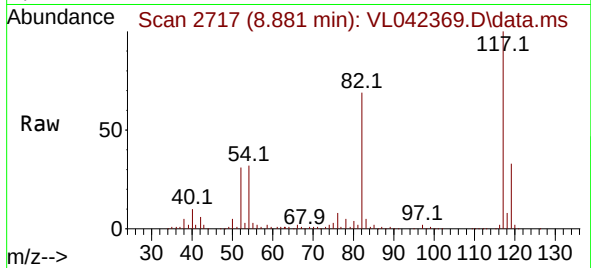




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.881 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

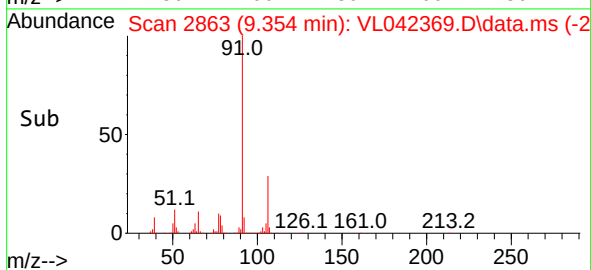
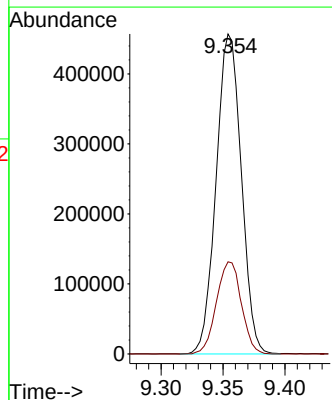
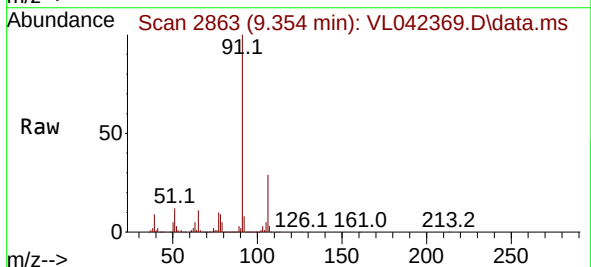
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

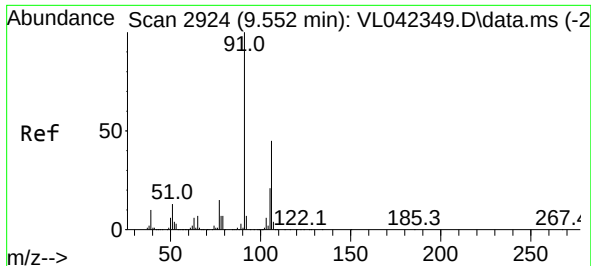
Tgt Ion:117 Resp: 288378
Ion Ratio Lower Upper
117 100
82 70.2 57.8 86.6
119 33.2 25.2 37.8



#58
Ethyl Benzene
Concen: 11.323 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion: 91 Resp: 646931
Ion Ratio Lower Upper
91 100
106 28.8 23.0 34.4





#59

m/p-Xylene

Concen: 38.886 ppbv

RT: 9.532 min Scan# 2918

Delta R.T. -0.019 min

Lab File: VL042369.D

Acq: 17 Apr 2025 21:45

Instrument :

MSVOA_L

ClientSampleId :

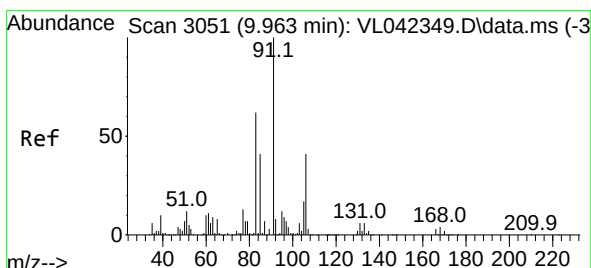
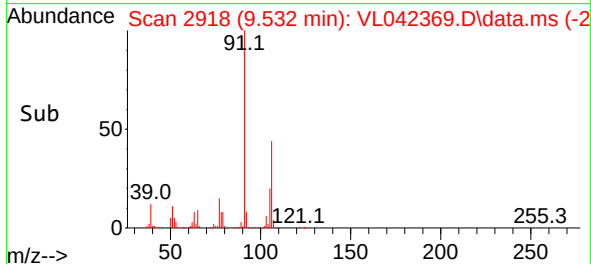
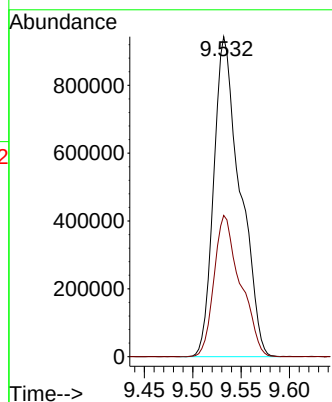
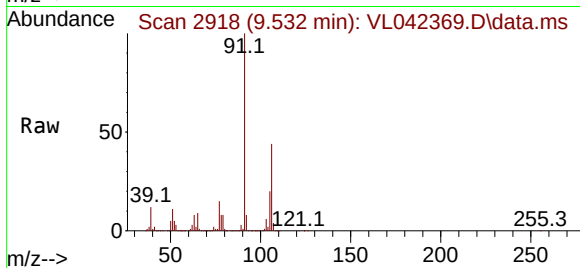
LA-B2-5-03312025

Tgt Ion: 91 Resp: 1789840

Ion Ratio Lower Upper

91 100

106 44.0 35.4 53.2



#60

o-Xylene

Concen: 15.308 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. -0.000 min

Lab File: VL042369.D

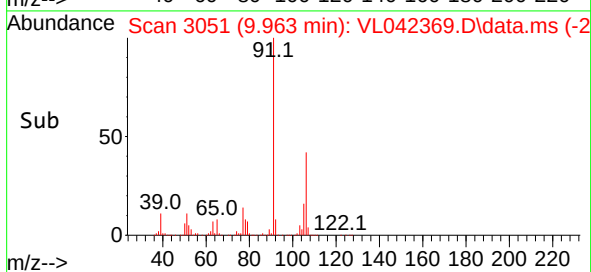
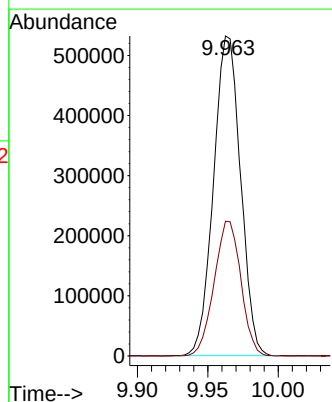
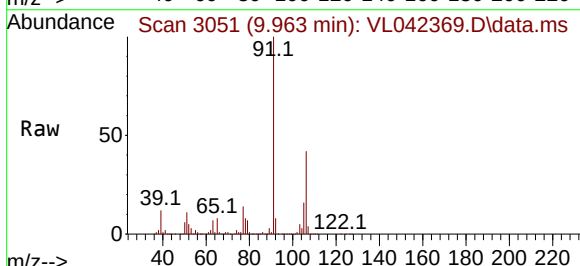
Acq: 17 Apr 2025 21:45

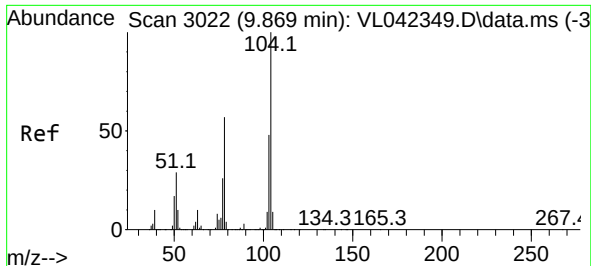
Tgt Ion: 91 Resp: 709518

Ion Ratio Lower Upper

91 100

106 41.7 21.1 63.4

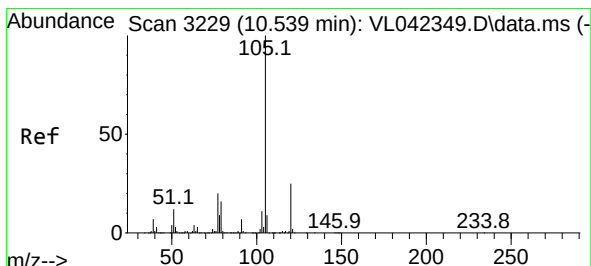
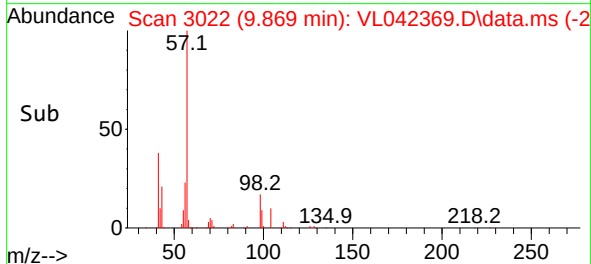
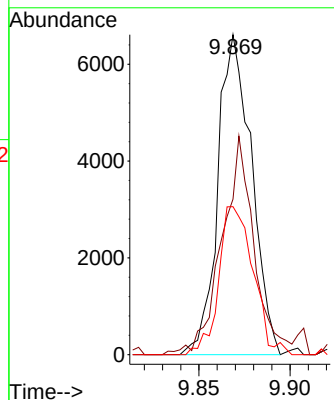
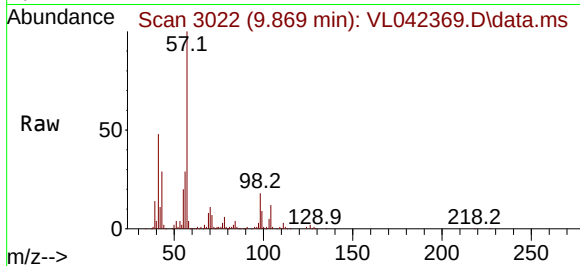




#61
Styrene
Concen: 0.384 ppbv
RT: 9.869 min Scan# 3022
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

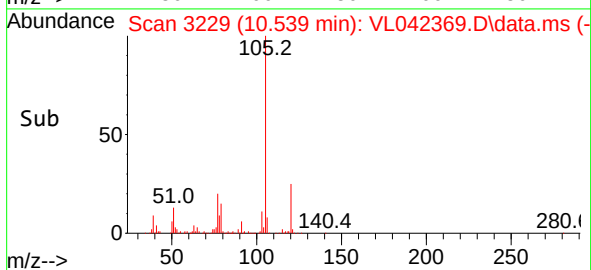
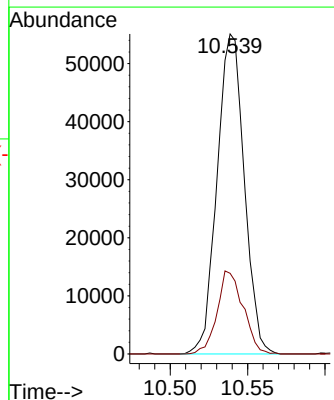
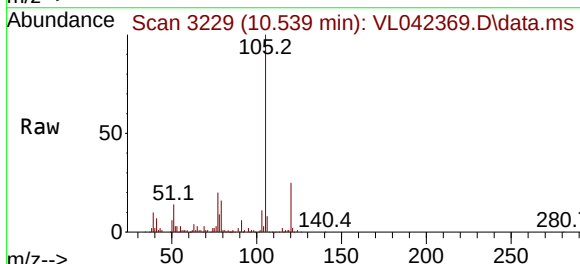
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

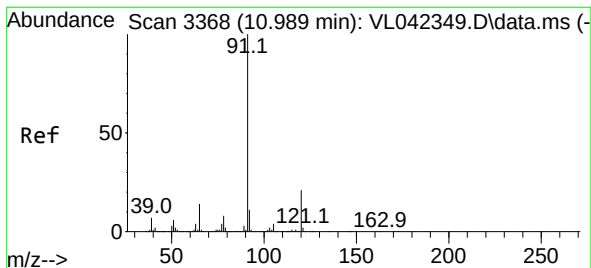
Tgt Ion:104 Resp: 8504
Ion Ratio Lower Upper
104 100
78 67.3 44.6 66.8#
103 47.5 37.4 56.0



#62
Isopropylbenzene
Concen: 0.989 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion:105 Resp: 67289
Ion Ratio Lower Upper
105 100
120 24.8 19.8 29.8





#64

n-propylbenzene

Concen: 3.428 ppbv

RT: 10.989 min Scan# 31

Delta R.T. -0.000 min

Lab File: VL042369.D

Acq: 17 Apr 2025 21:45

Instrument :

MSVOA_L

ClientSampleId :

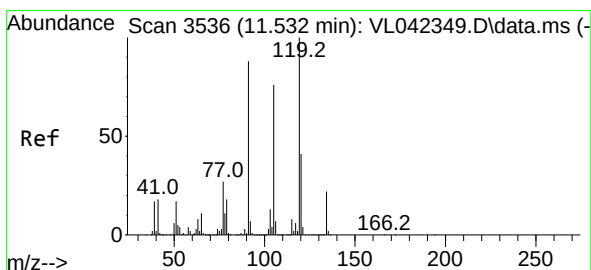
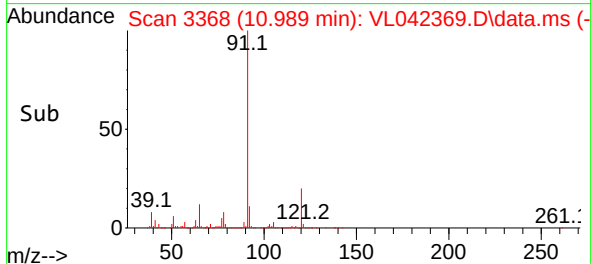
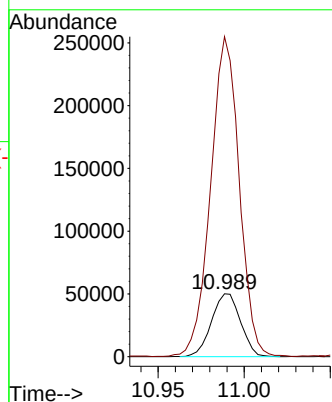
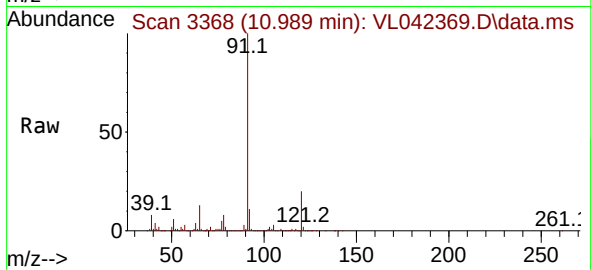
IA-B2-5-03312025

Tgt Ion:120 Resp: 58634

Ion Ratio Lower Upper

120 100

91 503.2 392.4 588.6



#65

tert-Butylbenzene

Concen: 2.015 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. 0.006 min

Lab File: VL042369.D

Acq: 17 Apr 2025 21:45

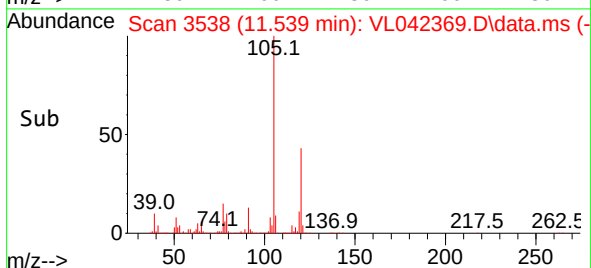
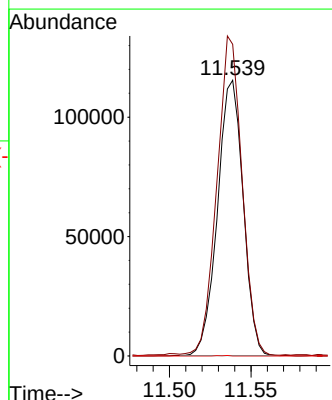
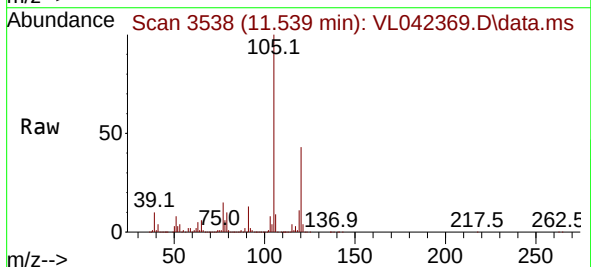
Tgt Ion:119 Resp: 126017

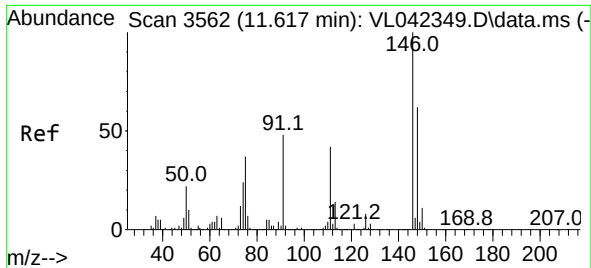
Ion Ratio Lower Upper

119 100

91 115.1 74.6 111.8#

134 0.0 18.8 28.2#

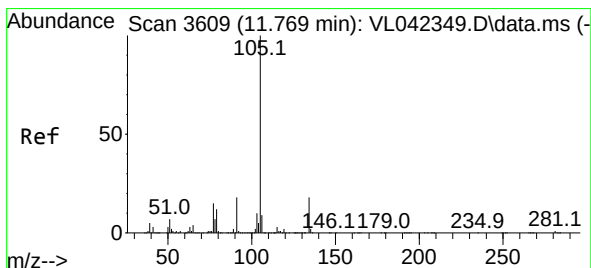
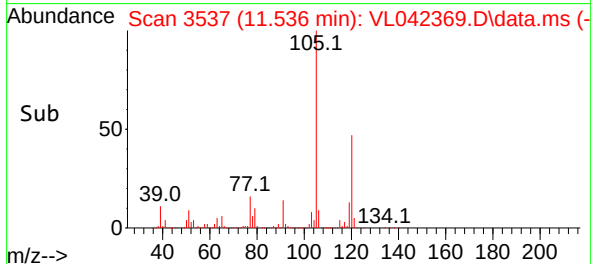
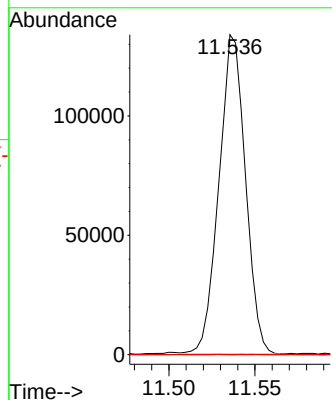
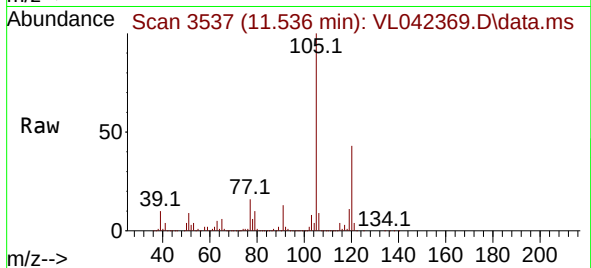




#66
Benzyl Chloride
Concen: 20.811 ppbv
RT: 11.536 min Scan# 31
Delta R.T. -0.081 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

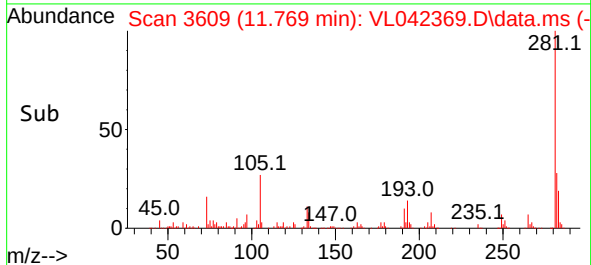
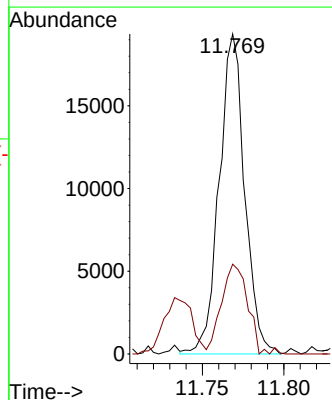
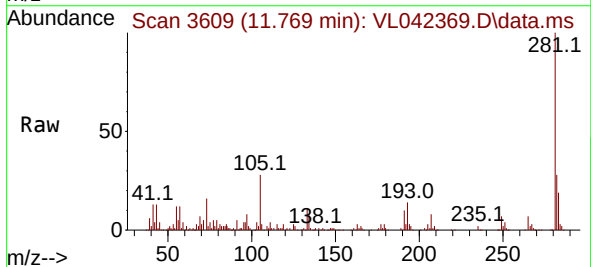
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

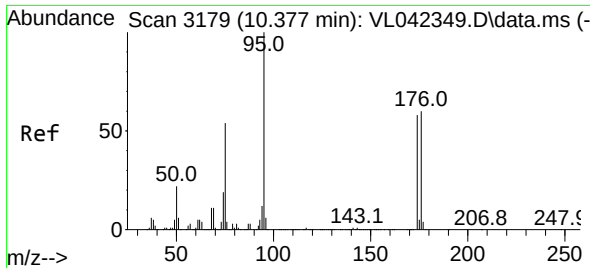
Tgt Ion: 91 Resp: 143029
Ion Ratio Lower Upper
91 100
126 0.0 11.8 17.6#
128 0.1 4.5 6.7#



#67
sec-Butylbenzene
Concen: 0.241 ppbv
RT: 11.769 min Scan# 3609
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion: 105 Resp: 20996
Ion Ratio Lower Upper
105 100
134 28.2 14.6 21.8#

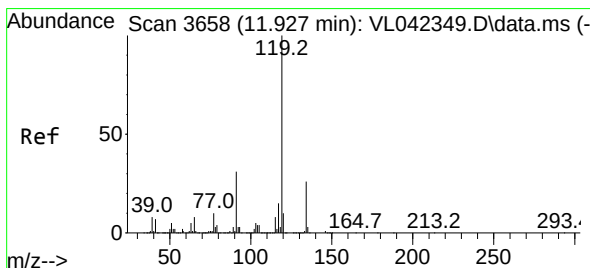
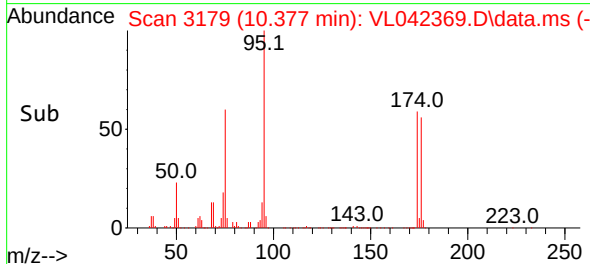
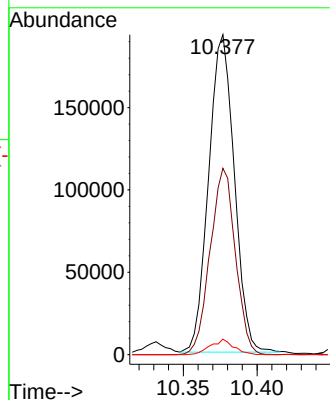
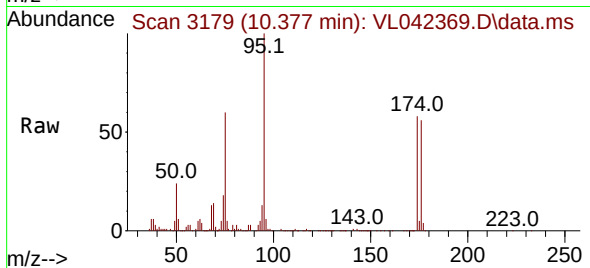




#68
1-Bromo-4-Fluorobenzene
Concen: 9.845 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

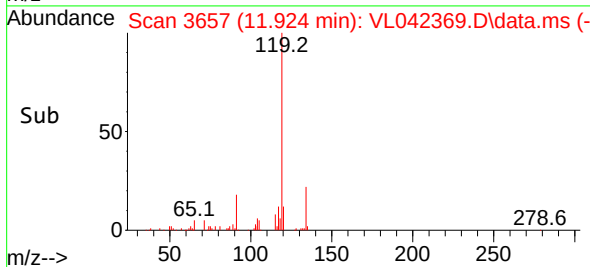
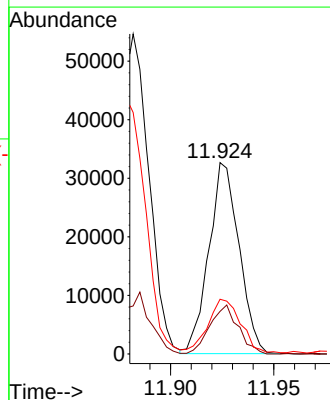
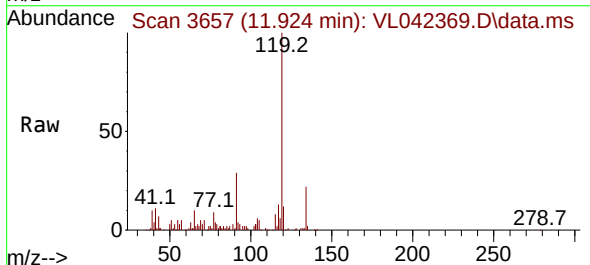
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

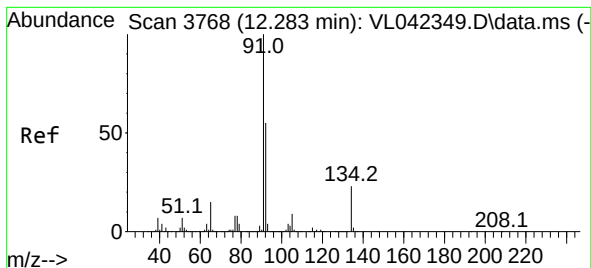
Tgt Ion: 95 Resp: 233305
Ion Ratio Lower Upper
95 100
174 57.7 48.5 72.7
175 4.4 3.7 5.5



#69
p-Isopropyltoluene
Concen: 0.440 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. -0.003 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion: 119 Resp: 33273
Ion Ratio Lower Upper
119 100
134 24.2 20.0 30.0
91 29.1 24.4 36.6





#70

n-Butylbenzene

Concen: 1.298 ppbv

RT: 12.286 min Scan# 31

Delta R.T. 0.003 min

Lab File: VL042369.D

Acq: 17 Apr 2025 21:45

Instrument :

MSVOA_L

ClientSampleId :

IA-B2-5-03312025

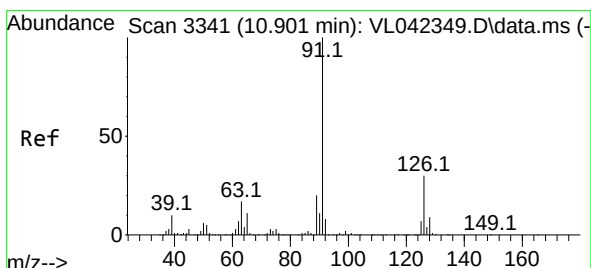
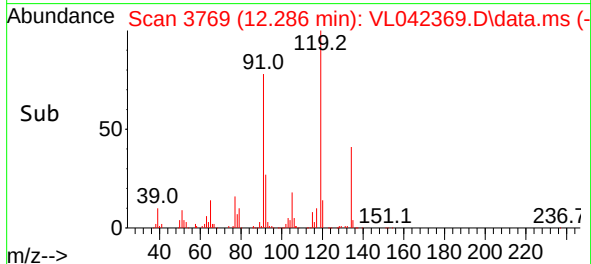
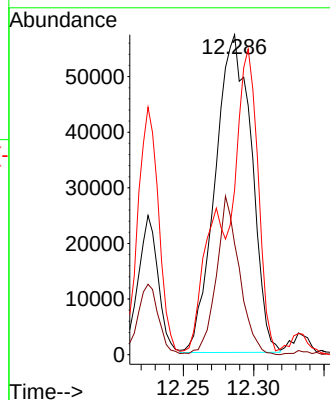
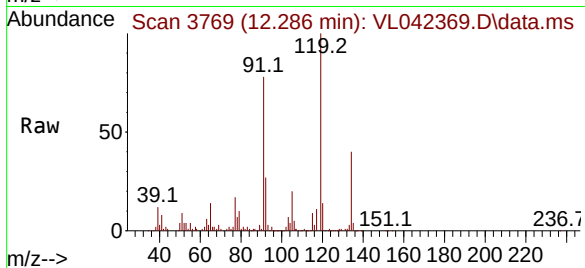
Tgt Ion: 91 Resp: 102145

Ion Ratio Lower Upper

91 100

92 31.6 44.2 66.4#

134 91.7 18.2 27.4#



#71

2-Chlorotoluene

Concen: 1.015 ppbv

RT: 10.901 min Scan# 3341

Delta R.T. -0.000 min

Lab File: VL042369.D

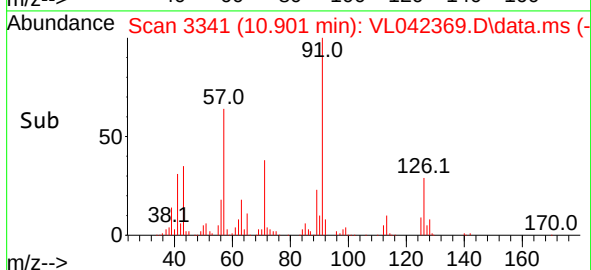
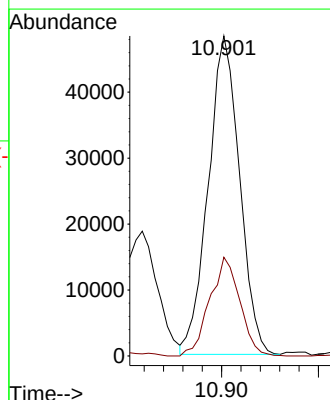
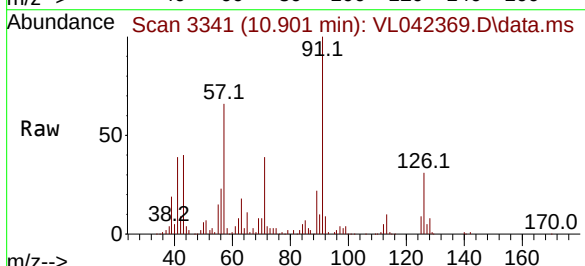
Acq: 17 Apr 2025 21:45

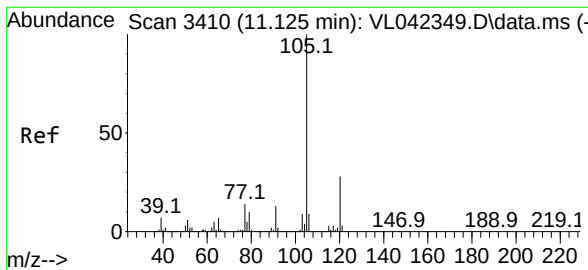
Tgt Ion: 91 Resp: 54169

Ion Ratio Lower Upper

91 100

126 29.8 11.4 45.4

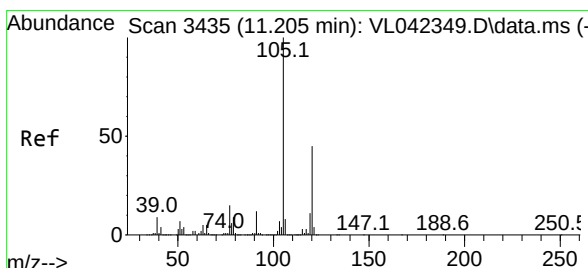
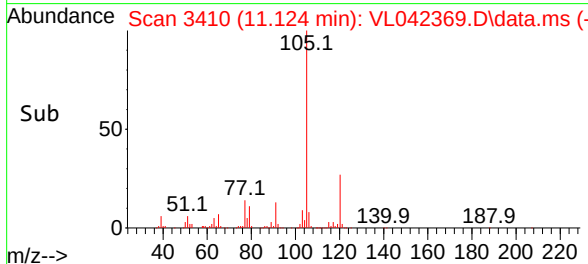
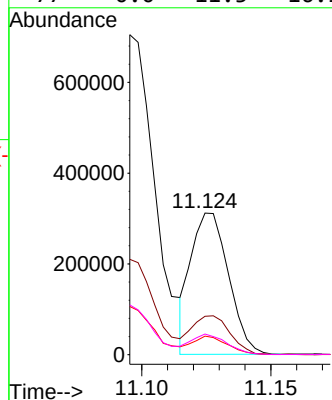
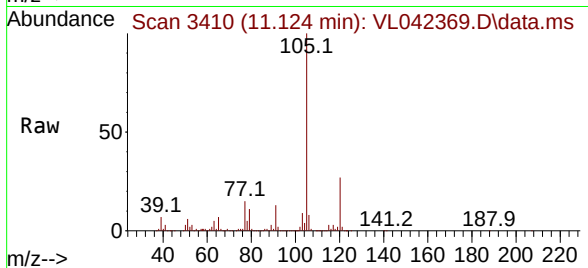




#72
4-Ethyltoluene
Concen: 5.540 ppbv
RT: 11.124 min Scan# 3410
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

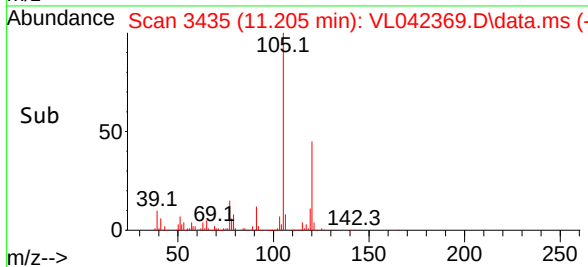
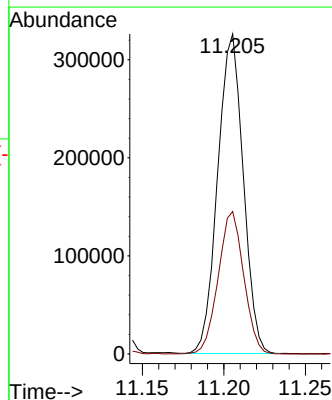
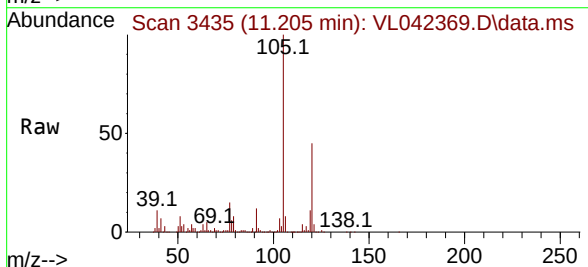
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

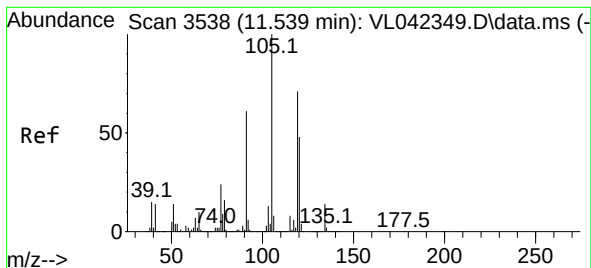
Tgt Ion:105	Resp:	313941
Ion Ratio	Lower	Upper
105	100	
120	0.0	23.2 34.8#
91	0.0	10.4 15.6#
77	0.0	11.3 16.9#



#73
1,3,5-Trimethylbenzene
Concen: 7.091 ppbv
RT: 11.205 min Scan# 3435
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion:105	Resp:	354735
Ion Ratio	Lower	Upper
105	100	
120	44.5	35.6 53.4





#74

1,2,4-Trimethylbenzene

Concen: 19.707 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. -0.000 min

Lab File: VL042369.D

Acq: 17 Apr 2025 21:45

Instrument :

MSVOA_L

ClientSampleId :

IA-B2-5-03312025

Tgt Ion:105 Resp: 1151476

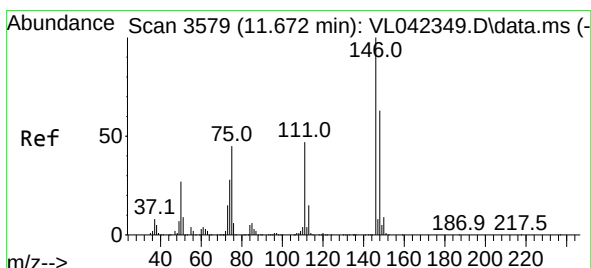
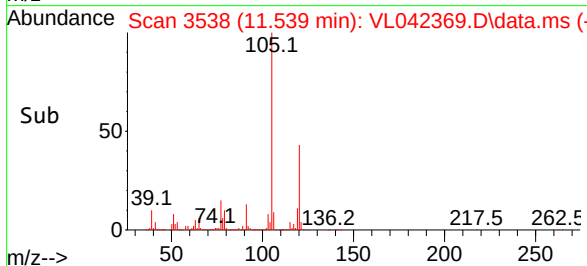
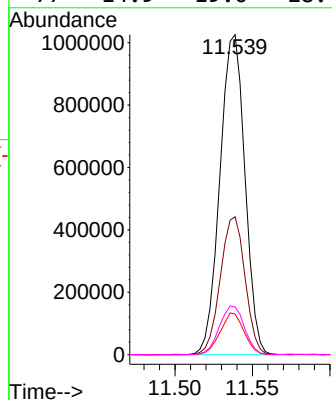
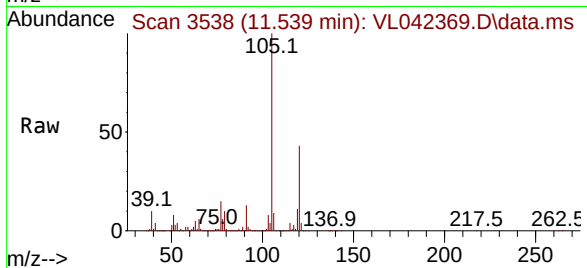
Ion Ratio Lower Upper

105 100

120 43.1 38.1 57.1

91 12.7 48.8 73.2#

77 14.9 19.0 28.4#



#76

1,4-Dichlorobenzene

Concen: 0.342 ppbv

RT: 11.671 min Scan# 3579

Delta R.T. -0.000 min

Lab File: VL042369.D

Acq: 17 Apr 2025 21:45

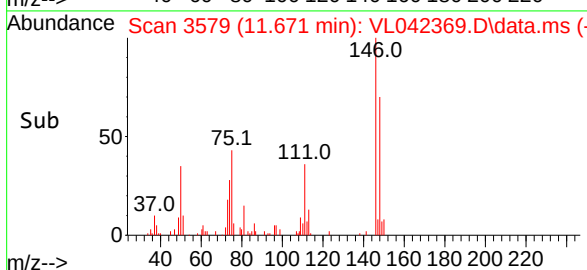
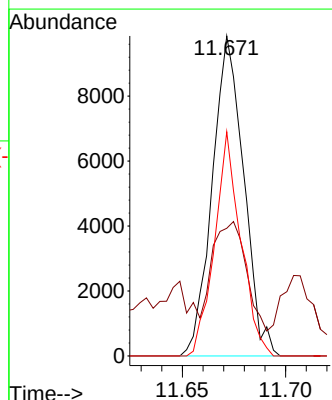
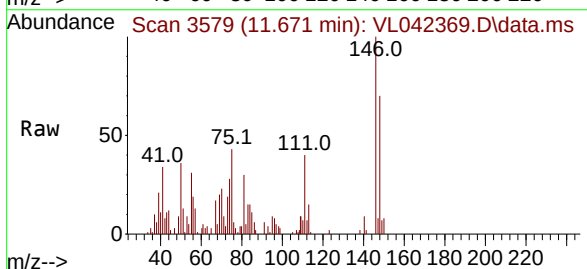
Tgt Ion:146 Resp: 10434

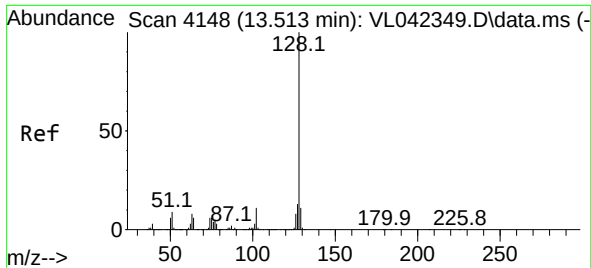
Ion Ratio Lower Upper

146 100

111 120.7 24.2 72.6#

148 58.5 32.1 96.5

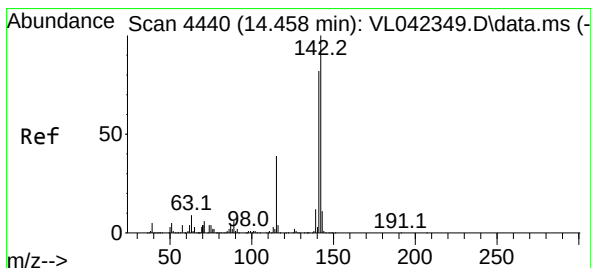
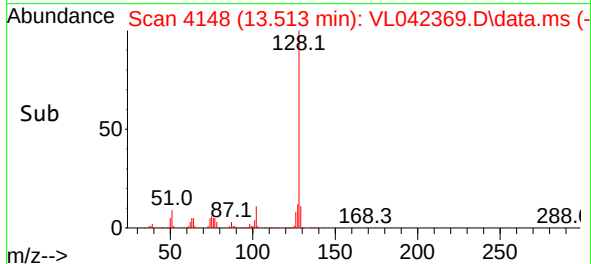
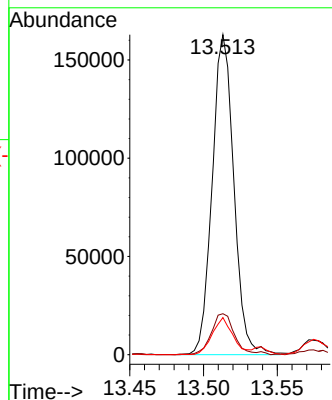
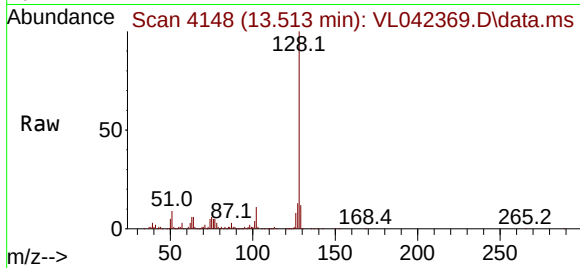




#79
Naphthalene
Concen: 2.380 ppbv
RT: 13.513 min Scan# 4148
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

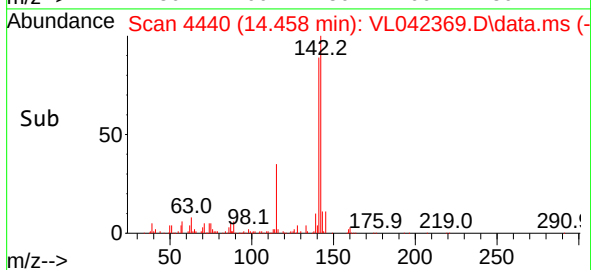
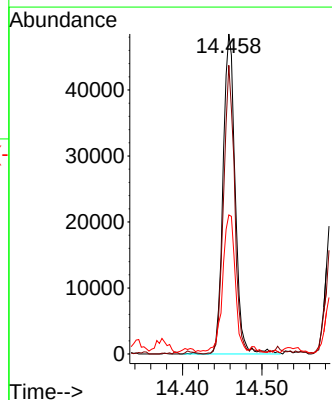
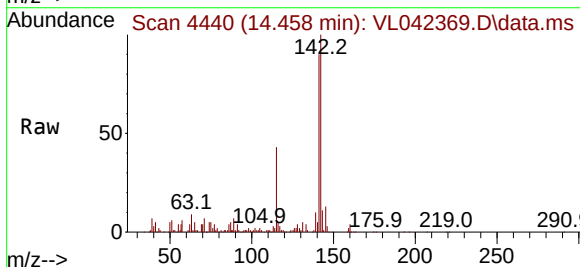
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025

Tgt Ion:128 Resp: 166277
Ion Ratio Lower Upper
128 100
127 12.6 10.6 15.8
129 11.5 8.6 12.8



#80
Naphthalene,2-methyl-
Concen: 1.280 ppbv
RT: 14.458 min Scan# 4440
Delta R.T. -0.000 min
Lab File: VL042369.D
Acq: 17 Apr 2025 21:45

Tgt Ion:142 Resp: 50980
Ion Ratio Lower Upper
142 100
141 83.1 66.8 100.2
115 47.9 33.4 50.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042370.D
 Acq On : 17 Apr 2025 22:19
 Operator : SY/MD
 Sample : Q1726-05
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-1-03312025

Quant Time: Apr 18 02:45:15 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	113751	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	331268	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	291013	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	238323	9.966	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.700%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	10027	0.499	ppbv	94
3) Chlorodifluoromethane	1.466	51	84256	4.403	ppbv #	60
4) Chloromethane	1.534	50	5131	0.645	ppbv	99
6) Bromomethane	1.667	94	152	0.041	ppbv #	81
9) Propene	1.560	41	123047	14.118	ppbv	97
10) Heptane	4.978	43	117936	4.816	ppbv	99
11) Trichlorofluoromethane	1.878	101	4815	0.252	ppbv	98
12) 1,1,2-Trichlorotri fluo...	2.140	101	1339	0.086	ppbv	96
13) Ethanol	1.722	45	389165	280.929	ppbv	76
15) Acetone	1.835	43	3179147	170.726	ppbv #	41
16) 1,3-Butadiene	1.622	39	38083	4.276	ppbv #	14
17) tert-Butyl alcohol	2.272	59	39766	1.723	ppbv	99
19) Isopropyl Alcohol	1.887	45	379189	36.656	ppbv #	33
20) Methylene Chloride	2.062	84	19314	2.648	ppbv	94
21) Allyl Chloride	2.043	41	4157	0.323	ppbv #	22
23) Vinyl Acetate	2.473	43	56038	7.435	ppbv #	51
25) Ethyl Acetate	2.826	43	68589	1.494	ppbv #	81
26) Hexane	2.826	57	72332	3.893	ppbv #	40
27) Carbon Disulfide	2.153	76	1238	0.062	ppbv #	50
28) Methyl tert-Butyl Ether	2.441	73	537	0.044	ppbv #	48
29) Chloroform	2.845	83	2448	0.093	ppbv	96
30) Cyclohexane	3.852	84	10233	0.681	ppbv #	1
34) 2-Butanone	2.560	43	30710	1.172	ppbv	97
35) Carbon Tetrachloride	3.761	117	2547	0.085	ppbv #	65
36) Benzene	3.654	78	46043	1.289	ppbv	96
37) 1,2-Dichloroethane	3.221	62	3831	0.179	ppbv #	94
39) 1,2-Dichloropropane	3.959	63	87012	6.535	ppbv #	22
41) Tetrahydrofuran	3.062	42	1920	0.126	ppbv #	35
44) 2,2,4-Trimethylpentane	4.642	57	746896	12.103	ppbv	97
50) 4-Methyl-2-Pentanone	5.768	43	3714	0.085	ppbv #	15
51) 2-Hexanone	7.422	43	38587	0.988	ppbv #	27
52) Tetrachloroethene	8.221	164	1269	0.092	ppbv #	66
53) Toluene	6.933	91	1320170	30.789	ppbv	100
58) Ethyl Benzene	9.354	91	360069	6.245	ppbv	99
59) m/p-Xylene	9.532	91	1004159	21.619	ppbv	100
60) o-Xylene	9.966	91	393388	8.410	ppbv	99
61) Styrene	9.872	104	8391	0.376	ppbv	95
62) Isopropylbenzene	10.539	105	39493	0.575	ppbv	95
64) n-propylbenzene	10.989	120	32073	1.858	ppbv	96
65) tert-Butylbenzene	11.536	119	58794	0.932	ppbv #	74
66) Benzyl Chloride	11.536	91	66566	9.598	ppbv #	70
67) sec-Butylbenzene	11.769	105	11229	0.128	ppbv #	62
69) p-Isopropyltoluene	11.924	119	18095	0.237	ppbv	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042370.D
 Acq On : 17 Apr 2025 22:19
 Operator : SY/MD
 Sample : Q1726-05
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-1-03312025

Quant Time: Apr 18 02:45:15 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)

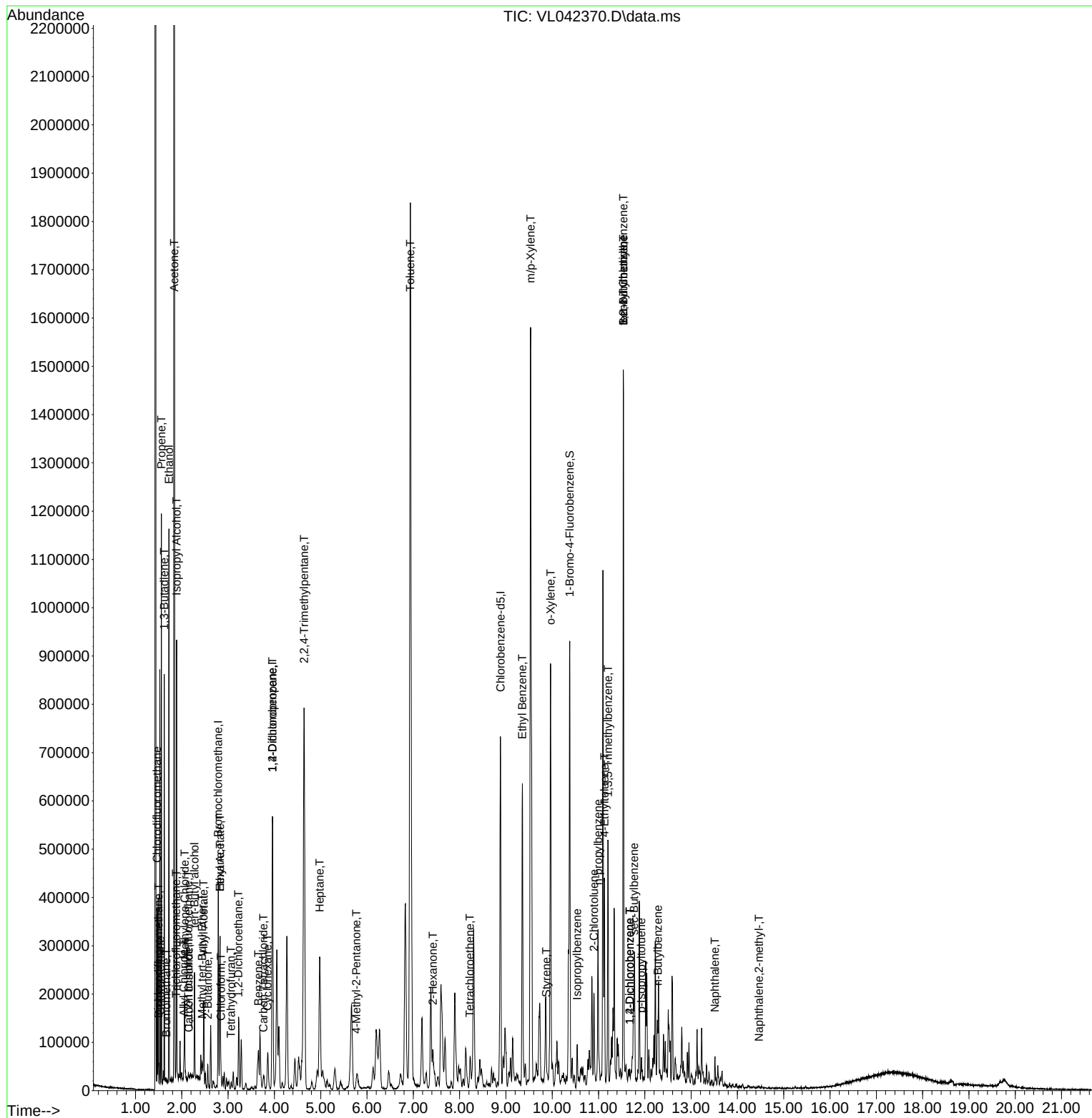
70) n-Butylbenzene	12.283	91	43525	0.548	ppbv #	42
71) 2-Chlorotoluene	10.905	91	42867	0.796	ppbv	97
72) 4-Ethyltoluene	11.128	105	178872	3.128	ppbv #	56
73) 1,3,5-Trimethylbenzene	11.206	105	173796	3.443	ppbv	98
74) 1,2,4-Trimethylbenzene	11.536	105	550459	9.336	ppbv #	63
76) 1,4-Dichlorobenzene	11.672	146	4575	0.149	ppbv	87
77) 1,2-Dichlorobenzene	11.672	146	4575	0.154	ppbv	94
79) Naphthalene	13.513	128	25684	0.364	ppbv	97
80) Naphthalene,2-methyl-	14.465	142	1496	0.037	ppbv #	81

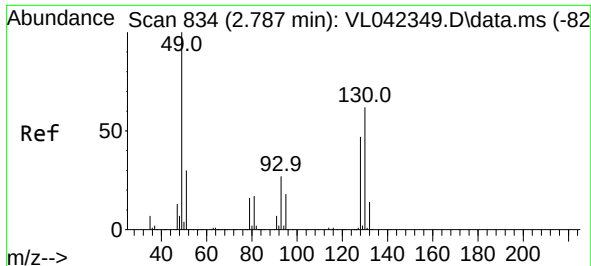
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042370.D
 Acq On : 17 Apr 2025 22:19
 Operator : SY/MD
 Sample : Q1726-05
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-1-03312025

Quant Time: Apr 18 02:45:15 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

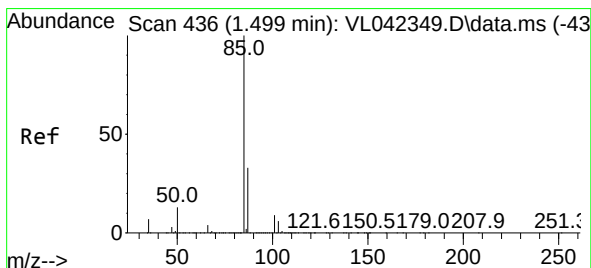
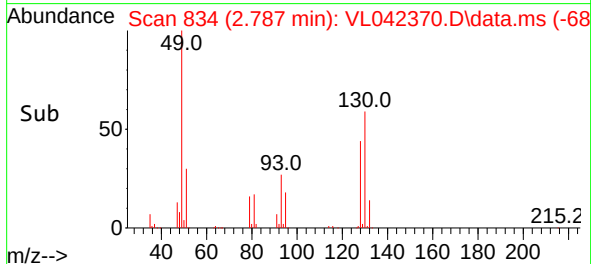
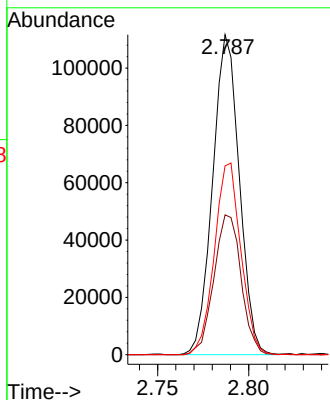
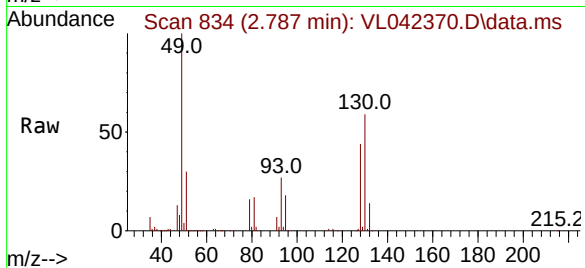




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.787 min Scan# 834
 Delta R.T. 0.000 min
 Lab File: VL042370.D
 Acq: 17 Apr 2025 22:19

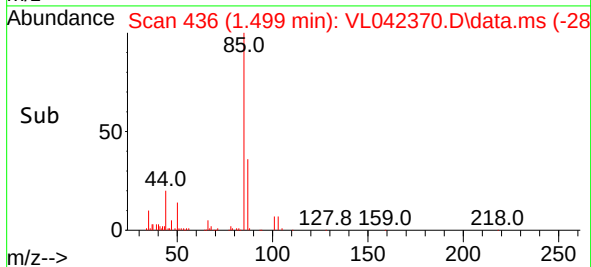
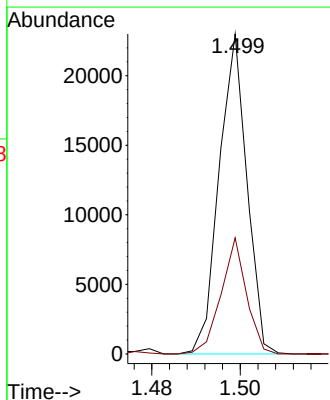
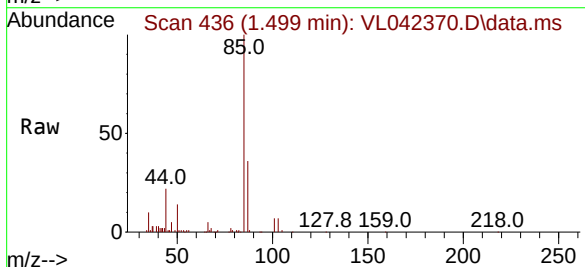
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-1-03312025

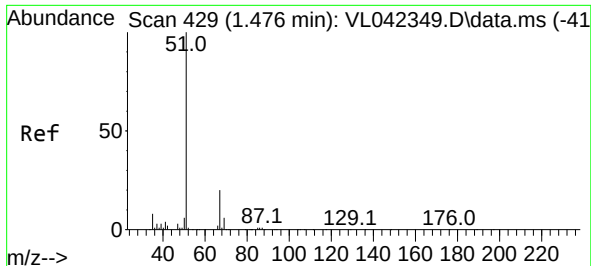
Tgt Ion: 49 Resp: 113751
 Ion Ratio Lower Upper
 49 100
 128 44.7 22.8 68.4
 130 59.5 29.3 88.0



#2
 Dichlorodifluoromethane
 Concen: 0.499 ppbv
 RT: 1.499 min Scan# 436
 Delta R.T. 0.000 min
 Lab File: VL042370.D
 Acq: 17 Apr 2025 22:19

Tgt Ion: 85 Resp: 10027
 Ion Ratio Lower Upper
 85 100
 87 36.3 26.6 39.8

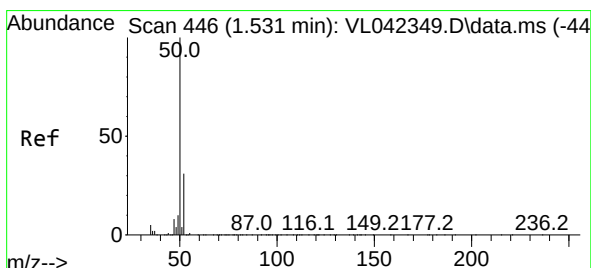
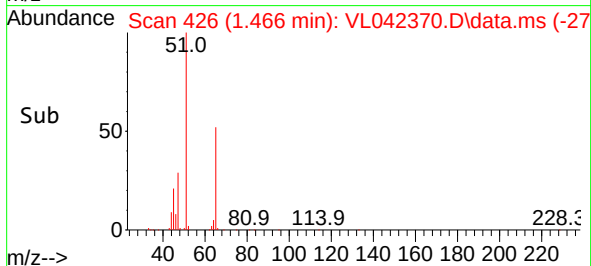
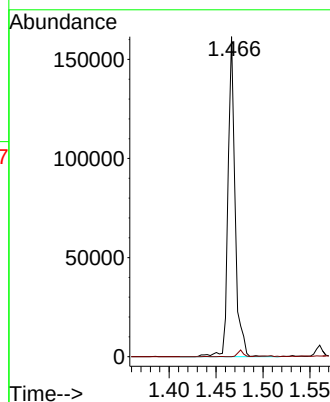
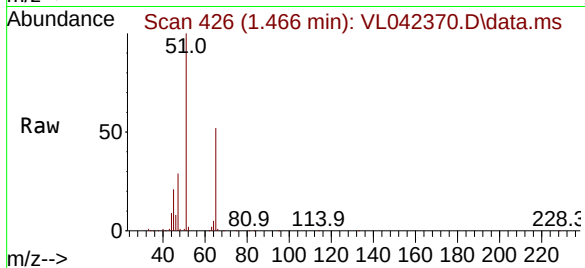




#3
Chlorodifluoromethane
Concen: 4.403 ppbv
RT: 1.466 min Scan# 41
Delta R.T. -0.010 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

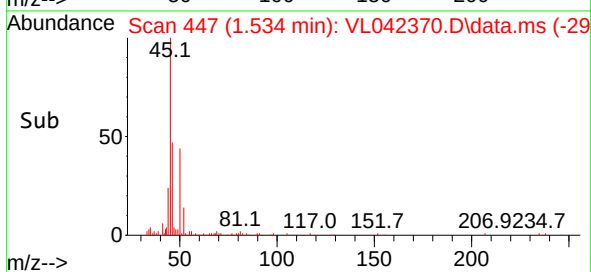
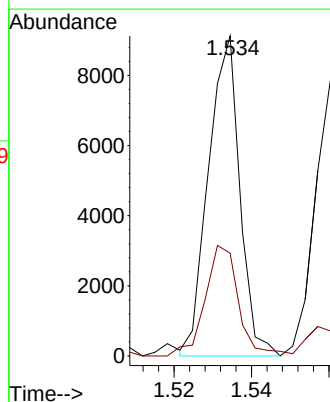
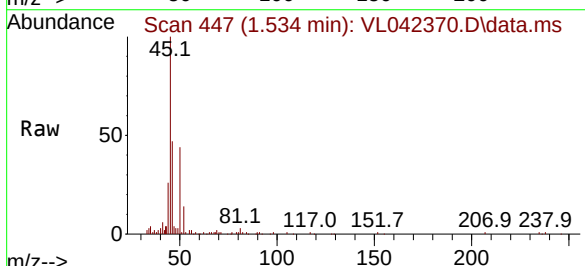
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

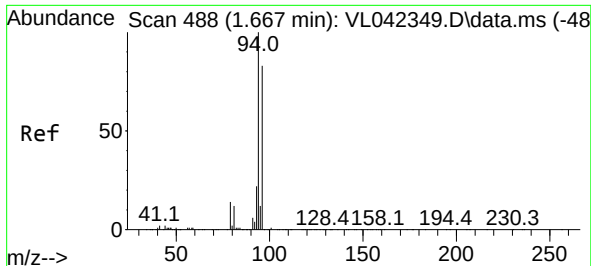
Tgt Ion: 51 Resp: 84256
Ion Ratio Lower Upper
51 100
67 1.9 16.2 24.4#



#4
Chloromethane
Concen: 0.645 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion: 50 Resp: 5131
Ion Ratio Lower Upper
50 100
52 31.2 24.7 37.1

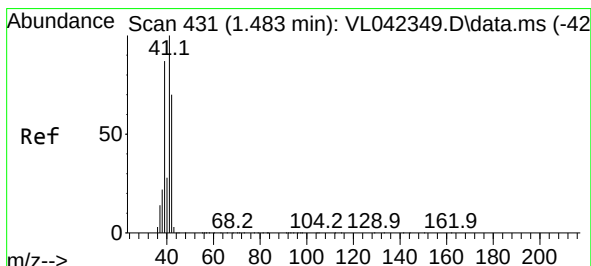
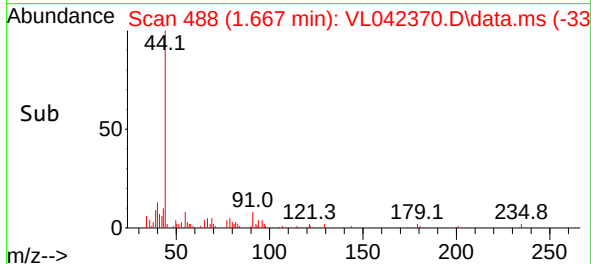
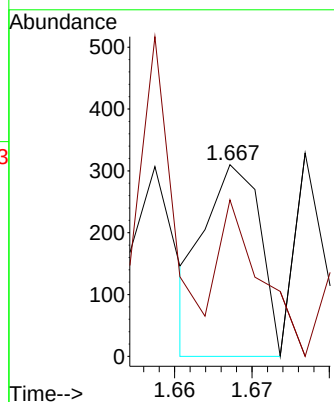
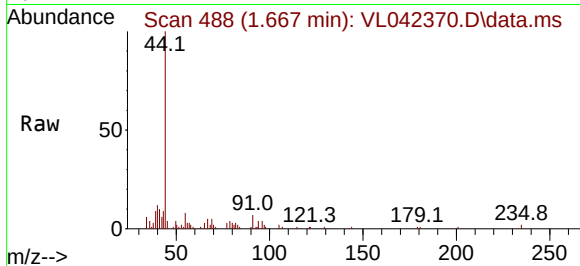




#6
Bromomethane
Concen: 0.041 ppbv
RT: 1.667 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

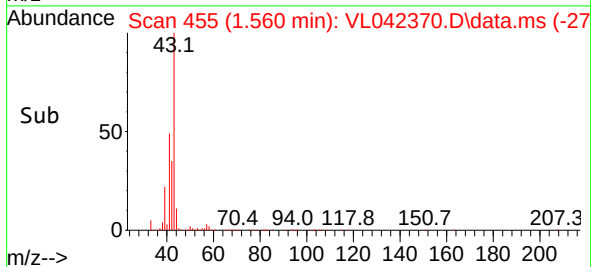
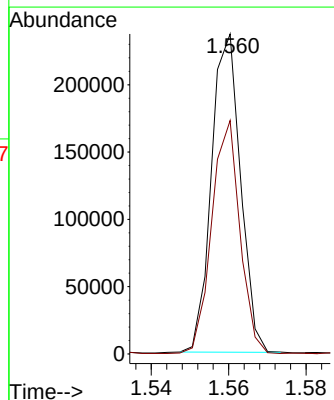
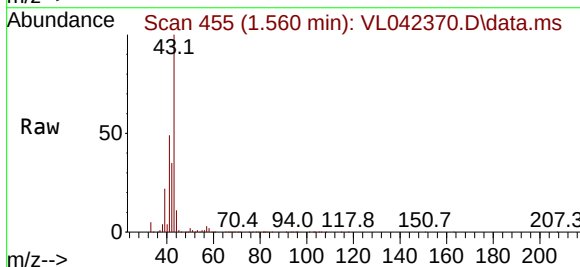
Instrument :
MSVOA_1
ClientSampleId :
IA-B2-1-03312025

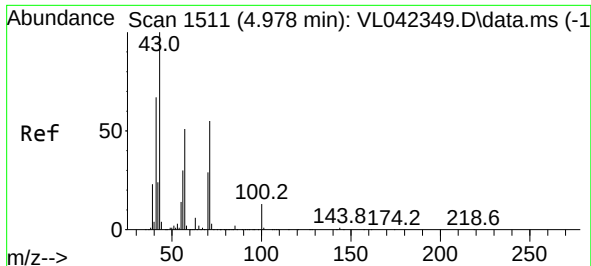
Tgt Ion: 94 Resp: 152
Ion Ratio Lower Upper
94 100
96 65.8 66.2 99.2#



#9
Propene
Concen: 14.118 ppbv
RT: 1.560 min Scan# 455
Delta R.T. 0.078 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion: 41 Resp: 123047
Ion Ratio Lower Upper
41 100
42 73.1 56.2 84.4





#10

Heptane

Concen: 4.816 ppbv

RT: 4.978 min Scan# 11

Delta R.T. 0.000 min

Lab File: VL042370.D

Acq: 17 Apr 2025 22:19

Instrument :

MSVOA_L

ClientSampleId :

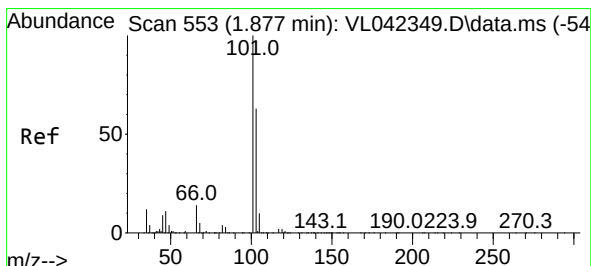
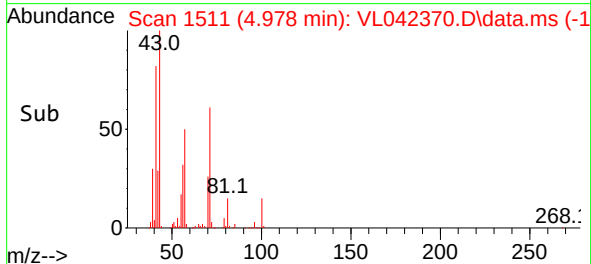
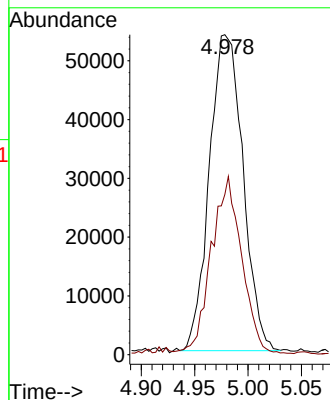
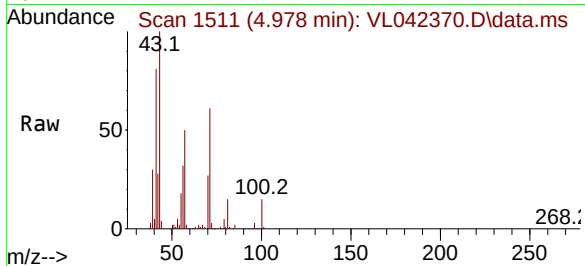
IA-B2-1-03312025

Tgt Ion: 43 Resp: 117936

Ion Ratio Lower Upper

43 100

57 50.5 39.9 59.9



#11

Trichlorofluoromethane

Concen: 0.252 ppbv

RT: 1.878 min Scan# 553

Delta R.T. 0.000 min

Lab File: VL042370.D

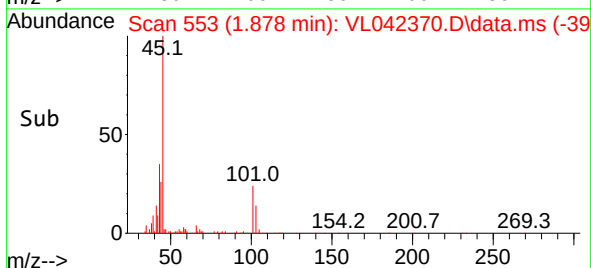
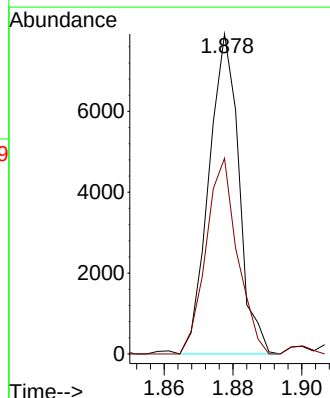
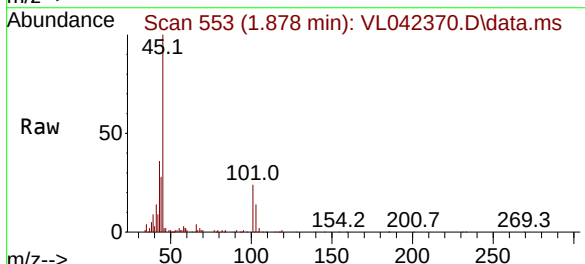
Acq: 17 Apr 2025 22:19

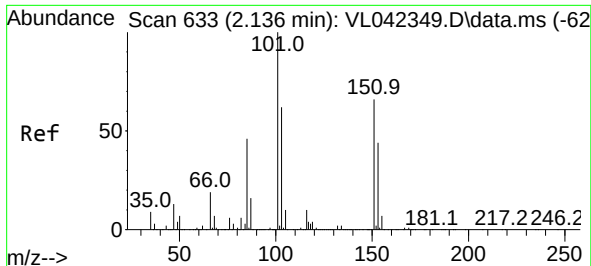
Tgt Ion: 101 Resp: 4815

Ion Ratio Lower Upper

101 100

103 61.2 50.1 75.1

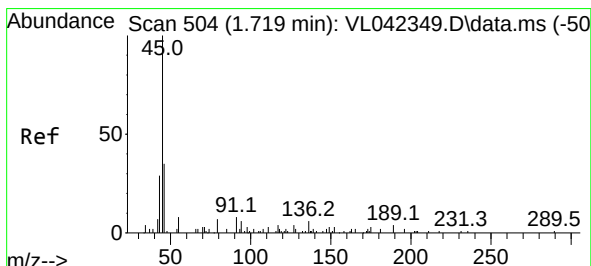
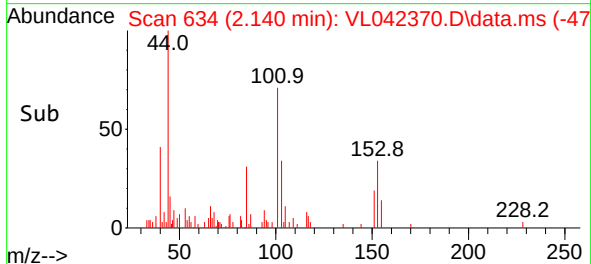
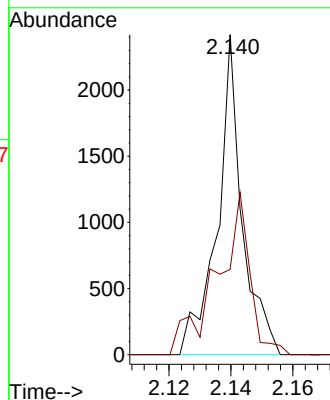
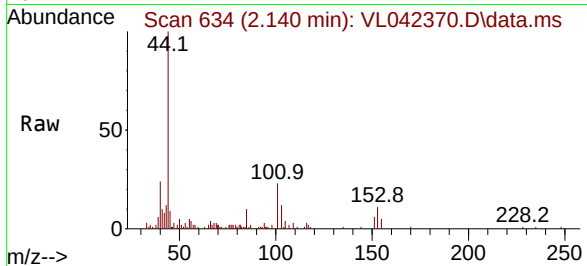




#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.086 ppbv
 RT: 2.140 min Scan# 61
 Delta R.T. 0.003 min
 Lab File: VL042370.D
 Acq: 17 Apr 2025 22:19

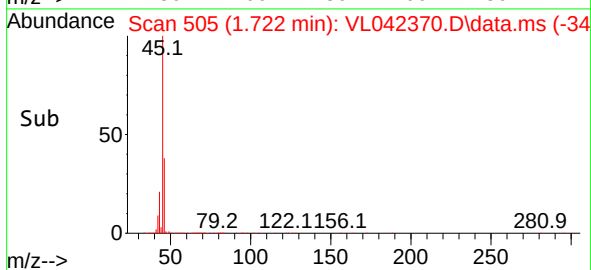
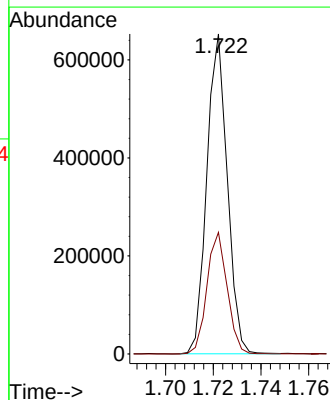
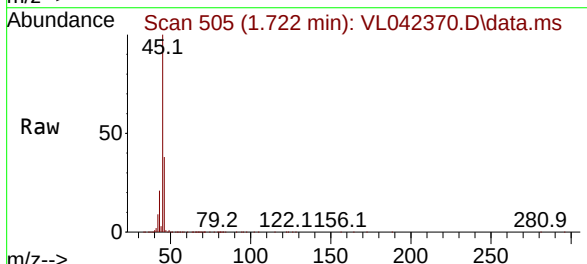
Instrument :
 MSVOA_1
 ClientSampleId :
 IA-B2-1-03312025

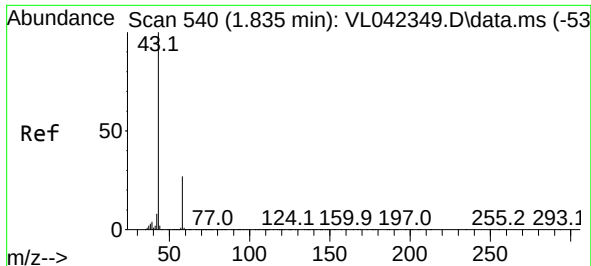
Tgt Ion:101 Resp: 1339
 Ion Ratio Lower Upper
 101 100
 151 67.6 57.0 85.6



#13
 Ethanol
 Concen: 280.929 ppbv
 RT: 1.722 min Scan# 505
 Delta R.T. 0.003 min
 Lab File: VL042370.D
 Acq: 17 Apr 2025 22:19

Tgt Ion: 45 Resp: 389165
 Ion Ratio Lower Upper
 45 100
 46 37.8 21.9 87.7

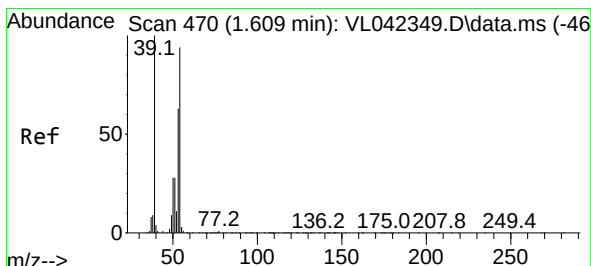
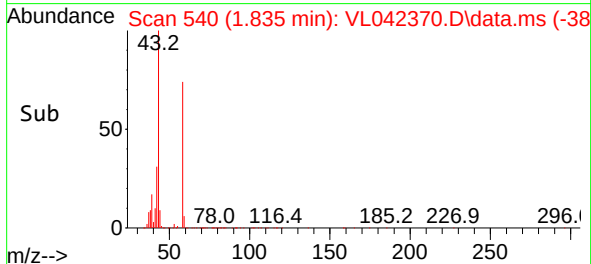
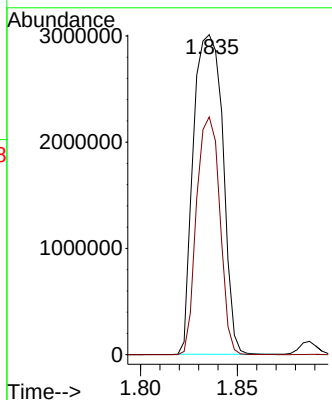
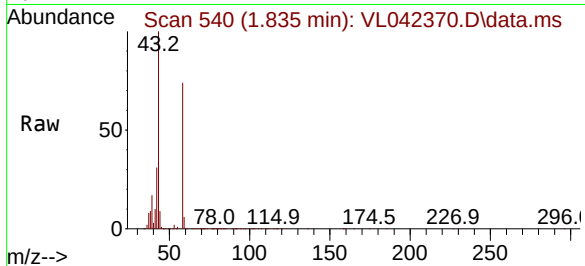




#15
Acetone
Concen: 170.726 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

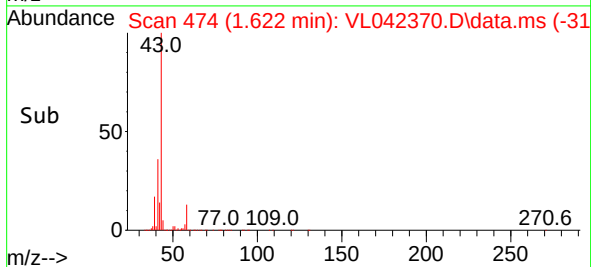
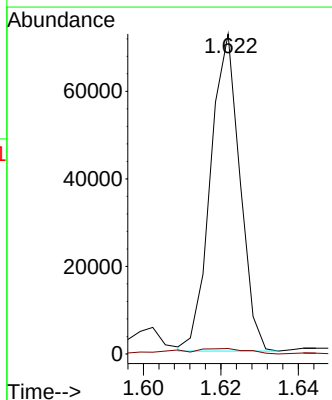
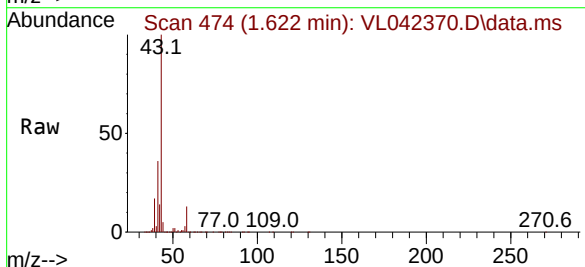
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

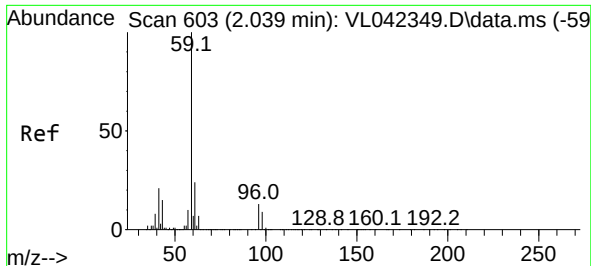
Tgt Ion: 43 Resp: 3179147
Ion Ratio Lower Upper
43 100
58 59.0 22.4 33.6#



#16
1,3-Butadiene
Concen: 4.276 ppbv
RT: 1.622 min Scan# 474
Delta R.T. 0.013 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion: 39 Resp: 38083
Ion Ratio Lower Upper
39 100
54 4.9 64.9 97.3#





#17

tert-Butyl alcohol

Concen: 1.723 ppbv

RT: 2.272 min Scan# 61

Delta R.T. 0.233 min

Lab File: VL042370.D

Acq: 17 Apr 2025 22:19

Instrument :

MSVOA_L

ClientSampleId :

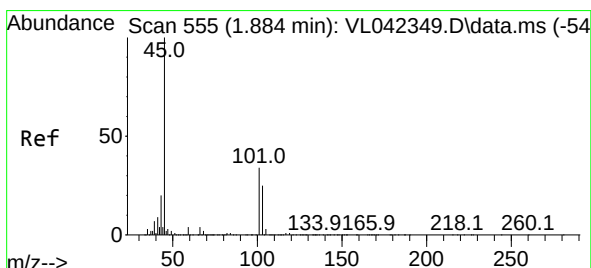
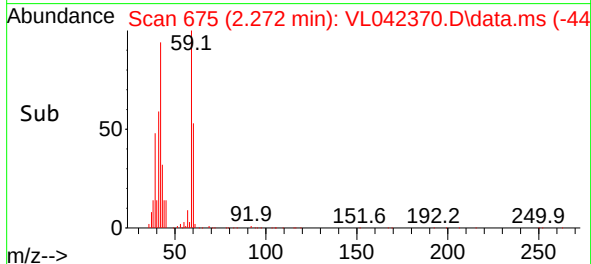
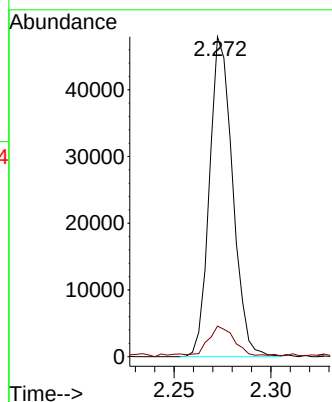
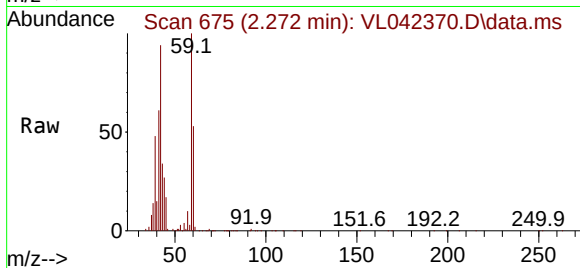
IA-B2-1-03312025

Tgt Ion: 59 Resp: 39766

Ion Ratio Lower Upper

59 100

57 10.5 8.7 13.1



#19

Isopropyl Alcohol

Concen: 36.656 ppbv

RT: 1.887 min Scan# 556

Delta R.T. 0.003 min

Lab File: VL042370.D

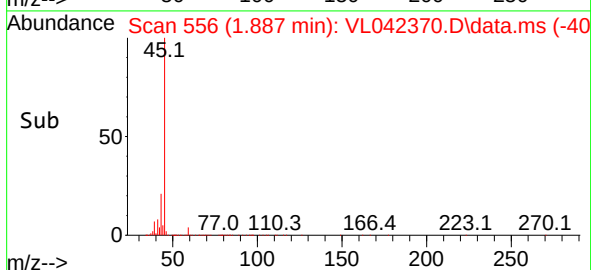
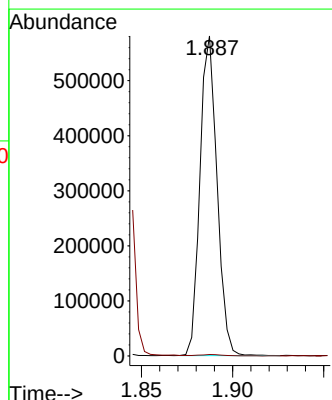
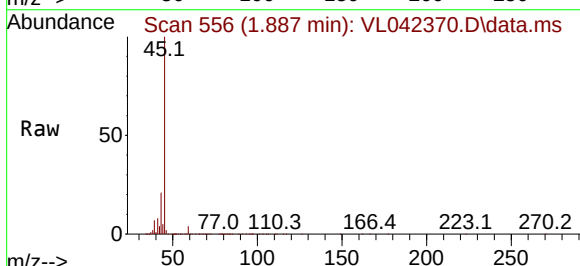
Acq: 17 Apr 2025 22:19

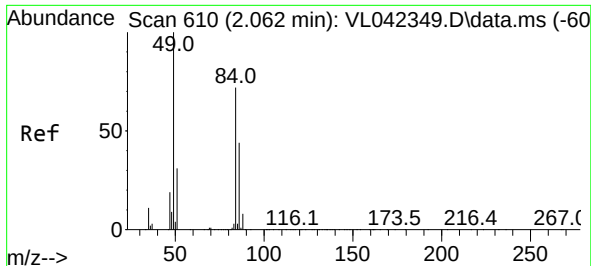
Tgt Ion: 45 Resp: 379189

Ion Ratio Lower Upper

45 100

58 0.0 34.5 51.7#

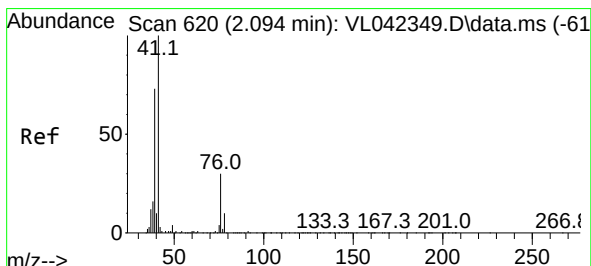
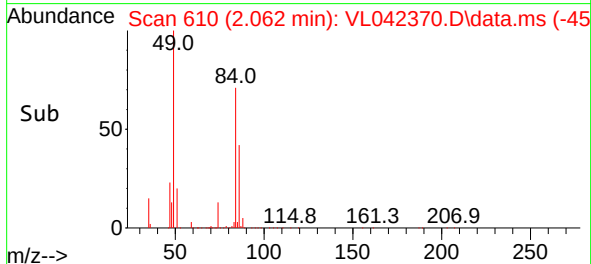
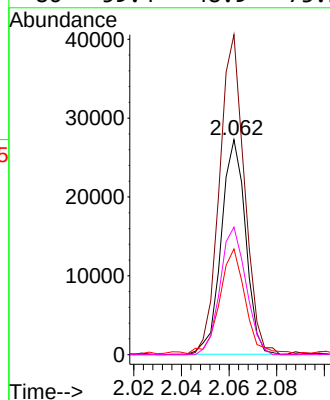
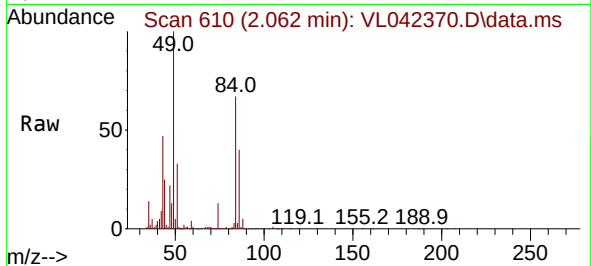




#20
Methylene Chloride
Concen: 2.648 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

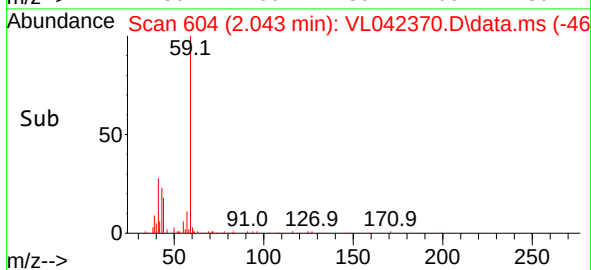
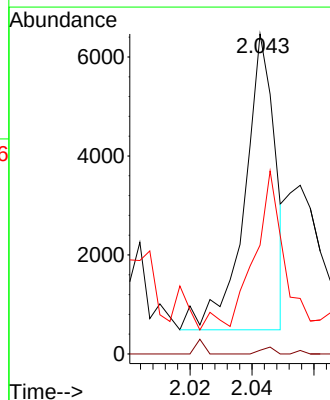
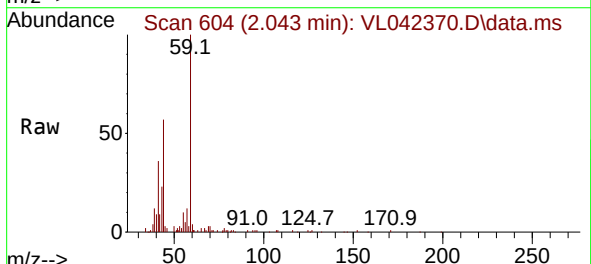
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

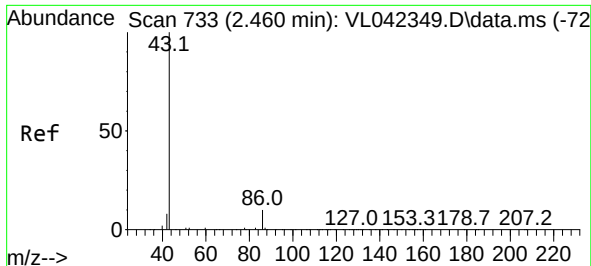
Tgt Ion: 84	Resp: 19314		
Ion	Ratio	Lower	Upper
84	100		
49	149.1	111.6	167.4
51	48.0	35.1	52.7
86	59.4	48.9	73.3



#21
Allyl Chloride
Concen: 0.323 ppbv
RT: 2.043 min Scan# 604
Delta R.T. -0.052 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion: 41	Resp: 4157
Ion Ratio	Lower Upper
41 100	
76 2.7	24.8 37.2#
39 0.0	60.6 90.8#



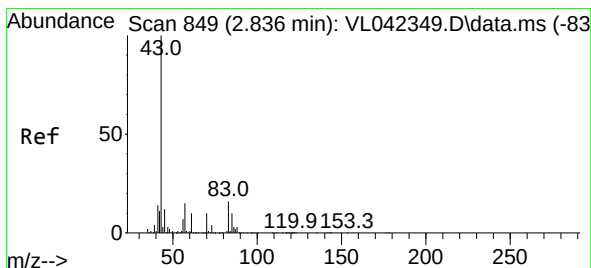
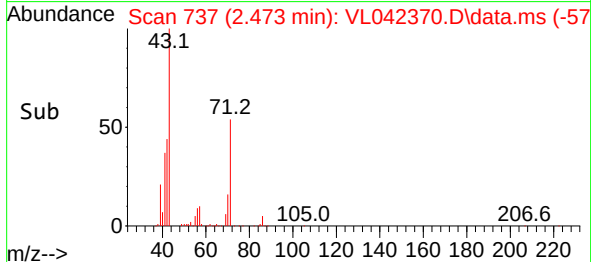
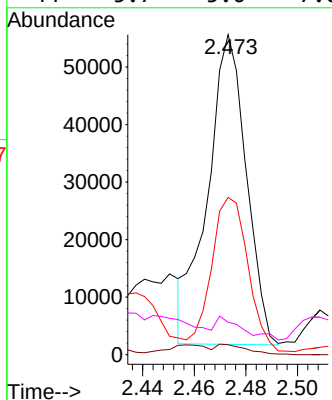
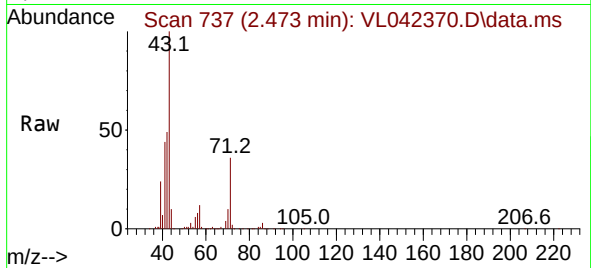


#23
 Vinyl Acetate
 Concen: 7.435 ppbv
 RT: 2.473 min Scan# 71
 Delta R.T. 0.013 min
 Lab File: VL042370.D
 Acq: 17 Apr 2025 22:19

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-1-03312025

Tgt Ion: 43 Resp: 56038

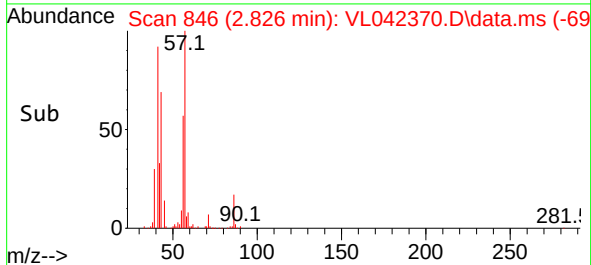
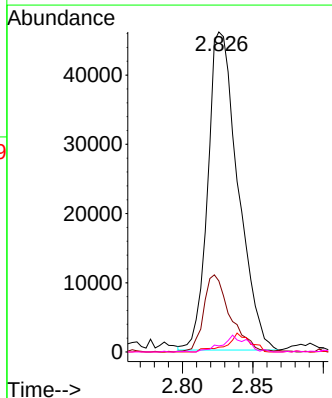
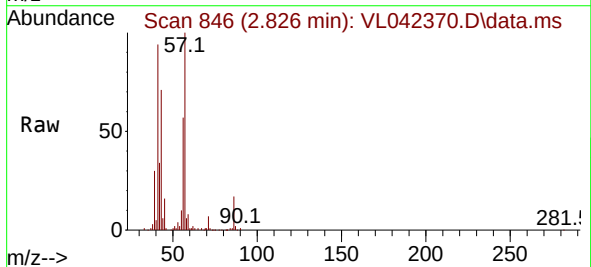
Ion	Ratio	Lower	Upper
43	100		
86	3.0	6.5	9.7#
42	49.7	7.8	11.8#
44	5.7	5.0	7.6

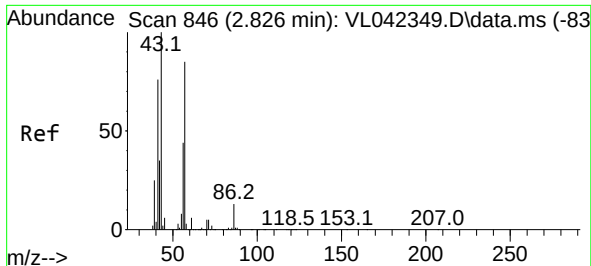


#25
 Ethyl Acetate
 Concen: 1.494 ppbv
 RT: 2.826 min Scan# 846
 Delta R.T. -0.010 min
 Lab File: VL042370.D
 Acq: 17 Apr 2025 22:19

Tgt Ion: 43 Resp: 68589

Ion	Ratio	Lower	Upper
43	100		
45	21.6	8.3	12.5#
61	4.6	7.3	10.9#
70	4.4	7.0	10.6#

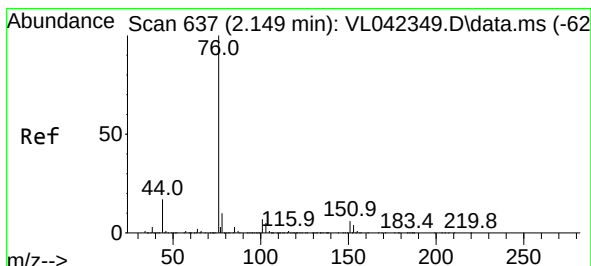
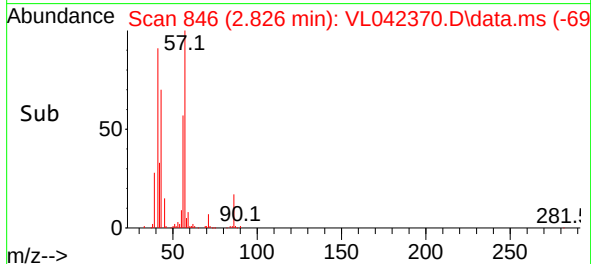
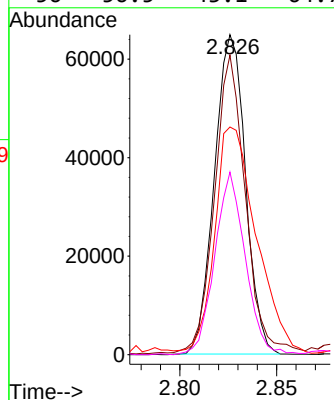
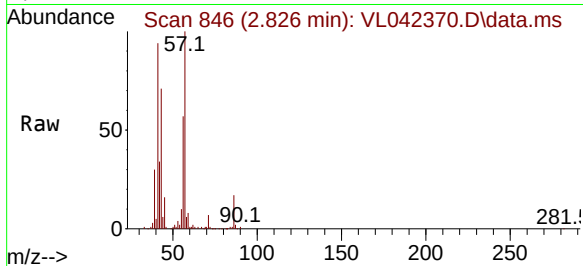




#26
Hexane
Concen: 3.893 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

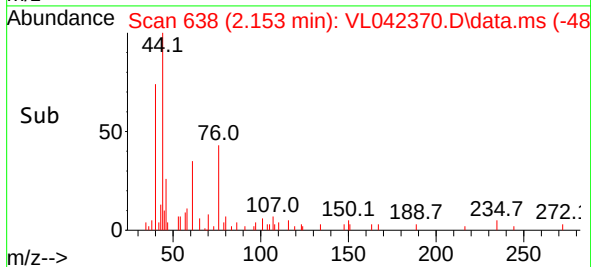
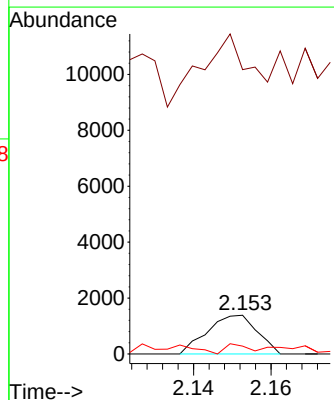
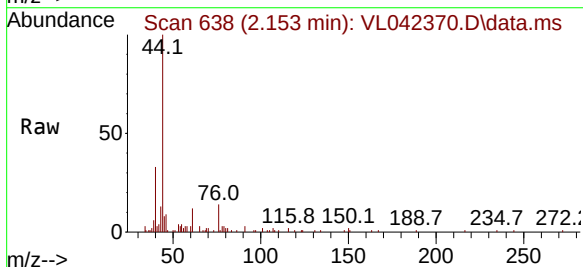
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

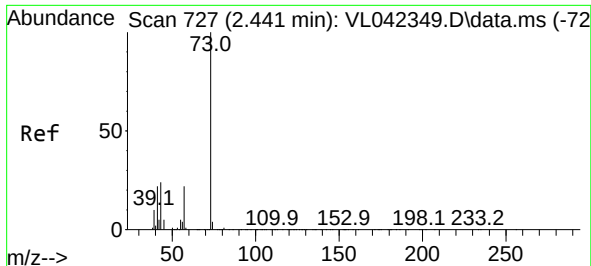
Tgt Ion:	57	Resp:	72332
Ion	Ratio	Lower	Upper
57	100		
41	93.6	77.9	116.9
43	95.6	208.4	312.6#
56	56.5	43.1	64.7



#27
Carbon Disulfide
Concen: 0.062 ppbv
RT: 2.153 min Scan# 638
Delta R.T. 0.003 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion:	76	Resp:	1238
Ion	Ratio	Lower	Upper
76	100		
44	0.0	15.5	23.3#
78	35.7	9.3	13.9#

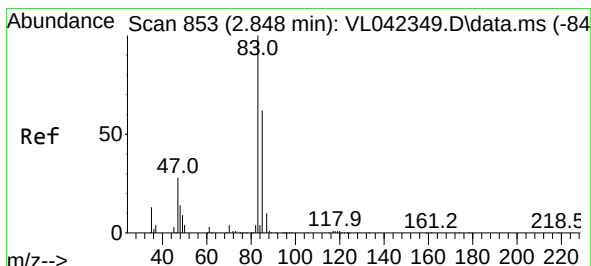
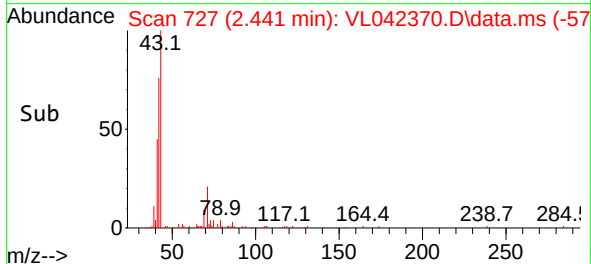
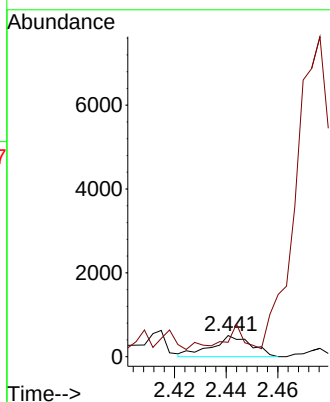
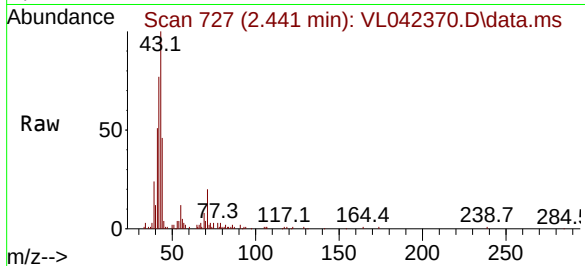




#28
Methyl tert-Butyl Ether
Concen: 0.044 ppbv
RT: 2.441 min Scan# 71
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

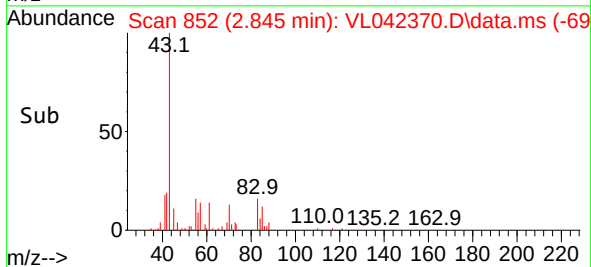
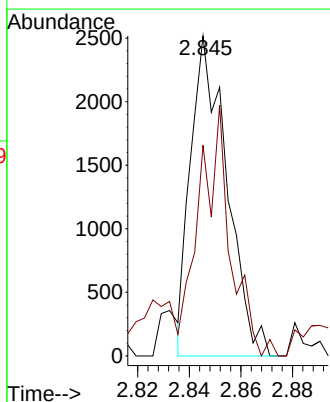
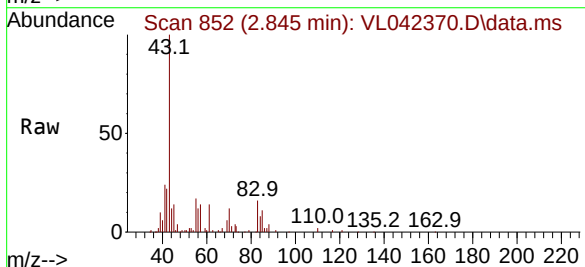
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

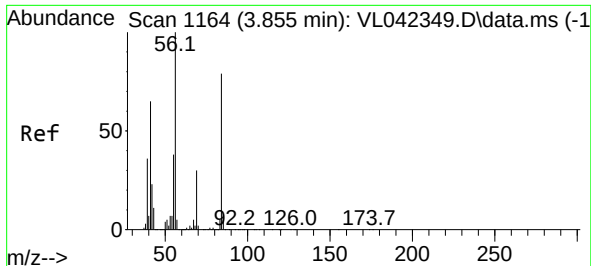
Tgt Ion: 73 Resp: 537
Ion Ratio Lower Upper
73 100
57 0.0 21.3 31.9#



#29
Chloroform
Concen: 0.093 ppbv
RT: 2.845 min Scan# 852
Delta R.T. -0.003 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion: 83 Resp: 2448
Ion Ratio Lower Upper
83 100
85 65.8 50.0 75.0

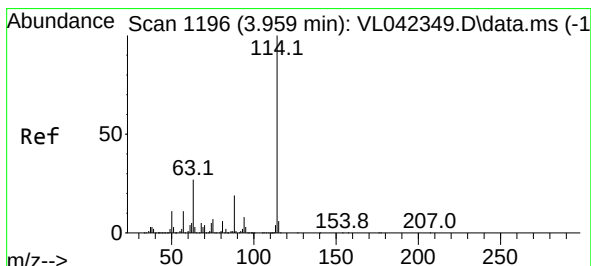
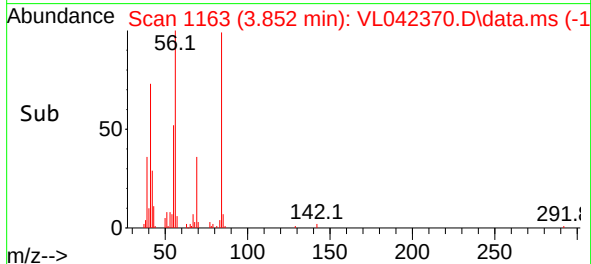
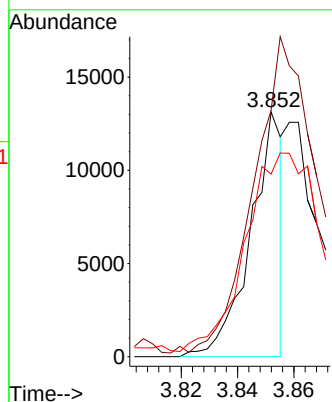
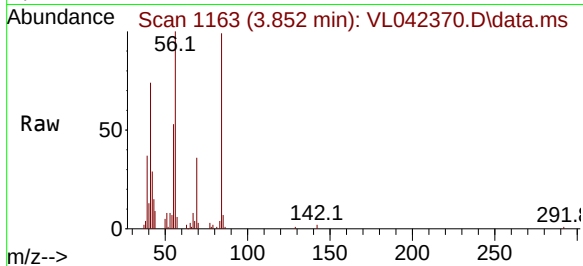




#30
Cyclohexane
Concen: 0.681 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. -0.003 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

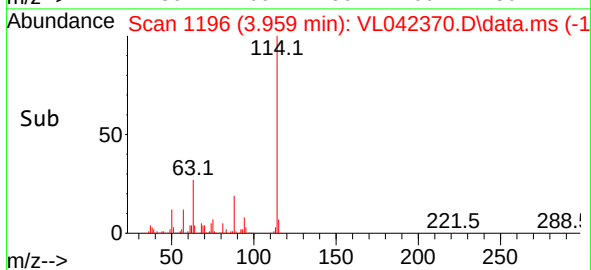
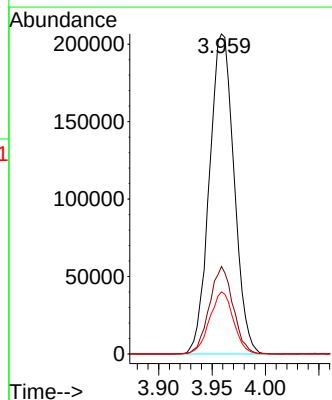
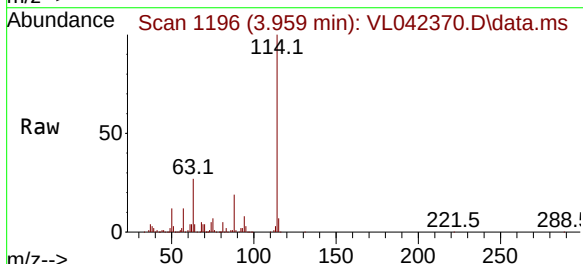
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

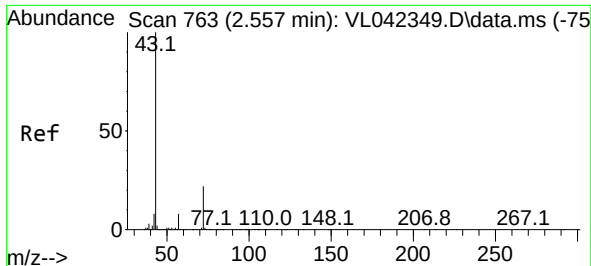
Tgt Ion: 84 Resp: 10233
Ion Ratio Lower Upper
84 100
56 269.5 101.0 151.4#
41 209.1 67.4 101.0#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion: 114 Resp: 331268
Ion Ratio Lower Upper
114 100
63 26.3 21.8 32.6
88 18.8 15.5 23.3

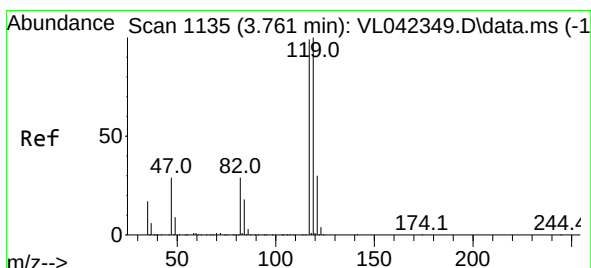
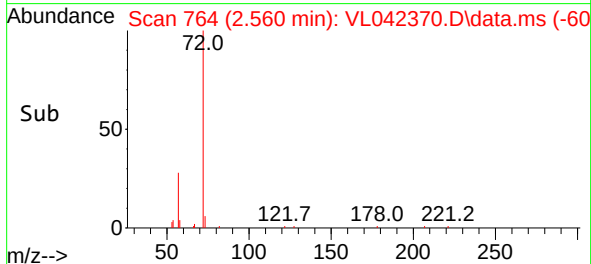
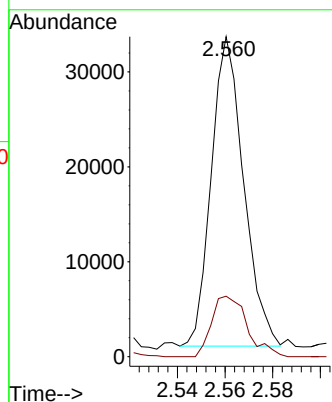
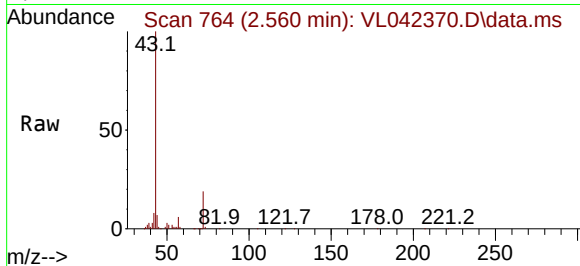




#34
2-Butanone
Concen: 1.172 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

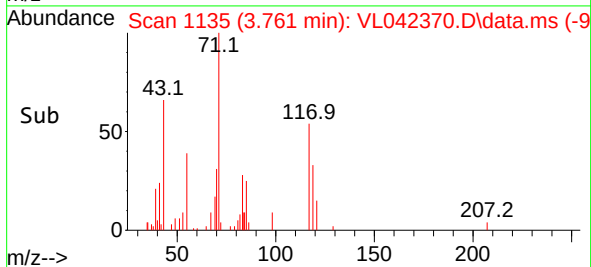
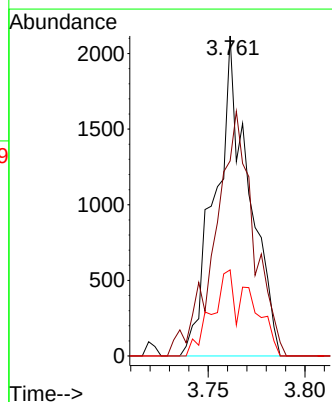
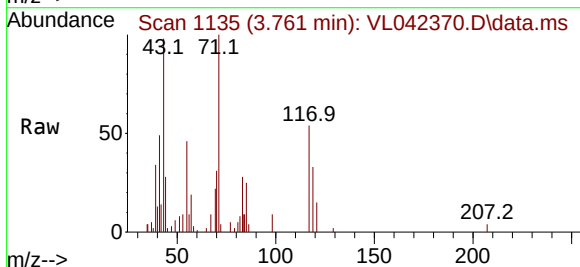
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

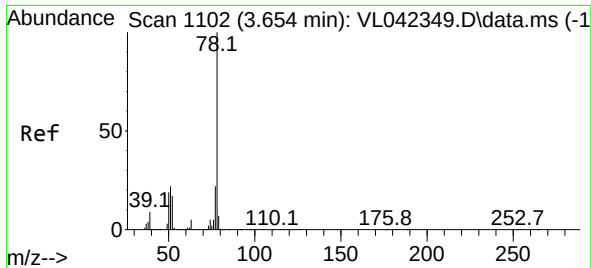
Tgt Ion: 43 Resp: 30710
Ion Ratio Lower Upper
43 100
72 21.4 18.2 27.2



#35
Carbon Tetrachloride
Concen: 0.085 ppbv
RT: 3.761 min Scan# 1135
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion: 117 Resp: 2547
Ion Ratio Lower Upper
117 100
119 56.7 80.5 120.7#
121 26.9 24.2 36.2

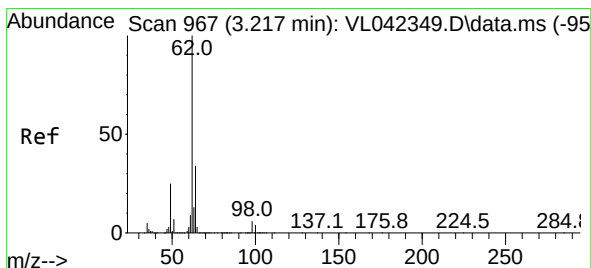
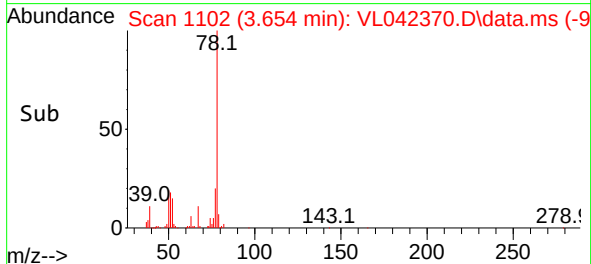
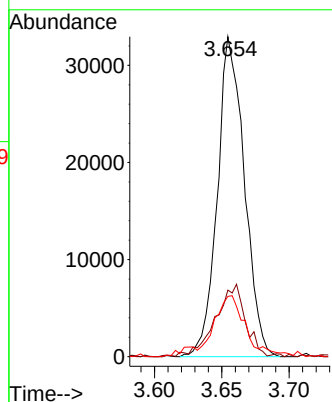
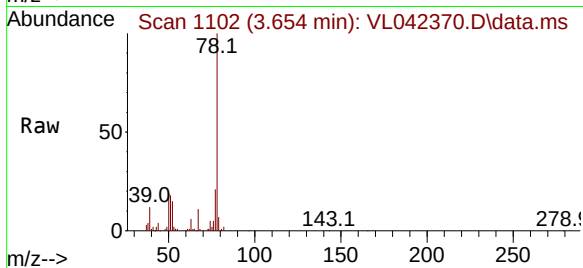




#36
Benzene
Concen: 1.289 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

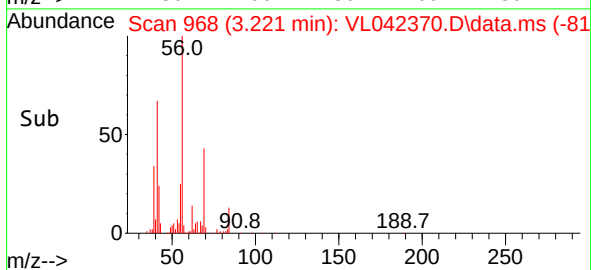
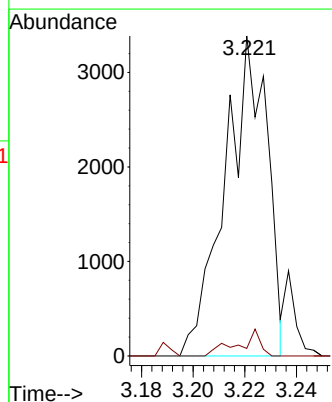
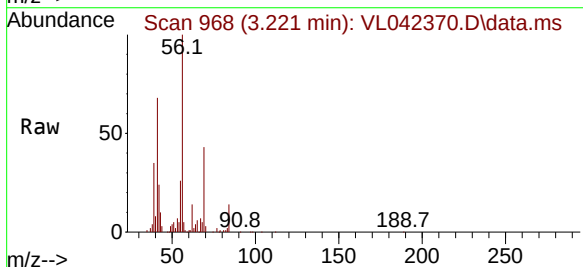
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

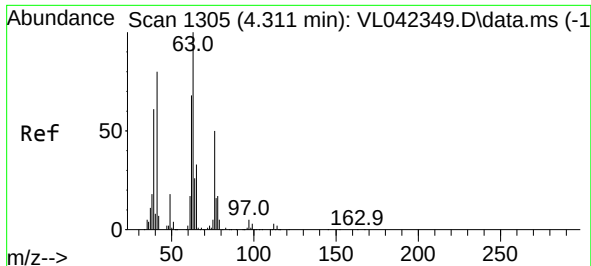
Tgt Ion: 78 Resp: 46043
Ion Ratio Lower Upper
78 100
77 20.0 17.4 26.0
50 17.7 15.5 23.3



#37
1,2-Dichloroethane
Concen: 0.179 ppbv
RT: 3.221 min Scan# 968
Delta R.T. 0.003 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion: 62 Resp: 3831
Ion Ratio Lower Upper
62 100
98 4.3 5.1 7.7#





#39

1,2-Dichloropropane

Concen: 6.535 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. -0.353 min

Lab File: VL042370.D

Acq: 17 Apr 2025 22:19

Instrument :

MSVOA_L

ClientSampleId :

IA-B2-1-03312025

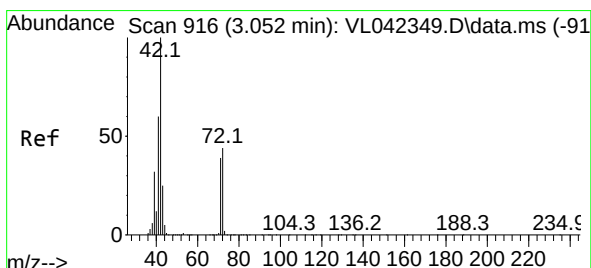
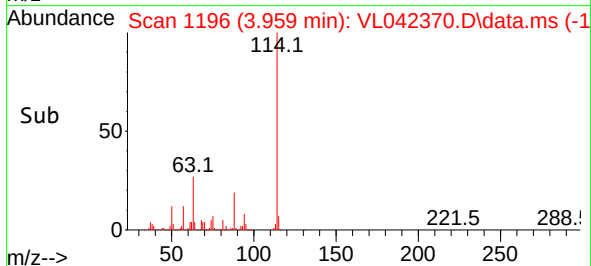
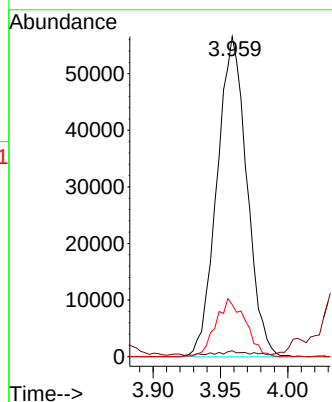
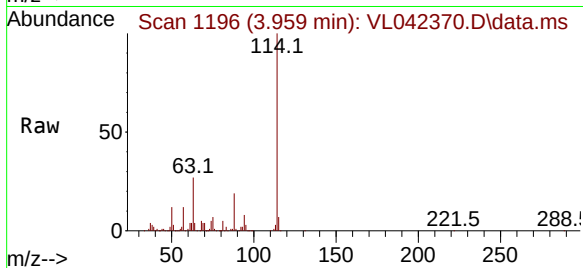
Tgt Ion: 63 Resp: 87012

Ion Ratio Lower Upper

63 100

41 1.0 64.2 96.2#

62 16.3 54.3 81.5#



#41

Tetrahydrofuran

Concen: 0.126 ppbv

RT: 3.062 min Scan# 919

Delta R.T. 0.010 min

Lab File: VL042370.D

Acq: 17 Apr 2025 22:19

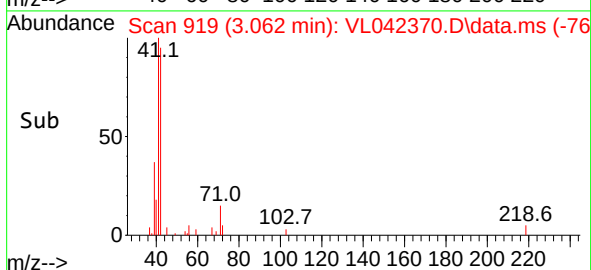
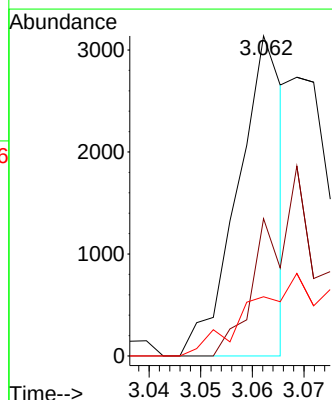
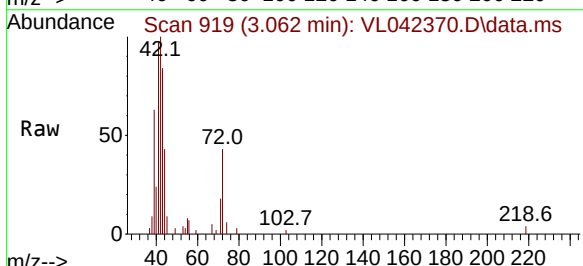
Tgt Ion: 42 Resp: 1920

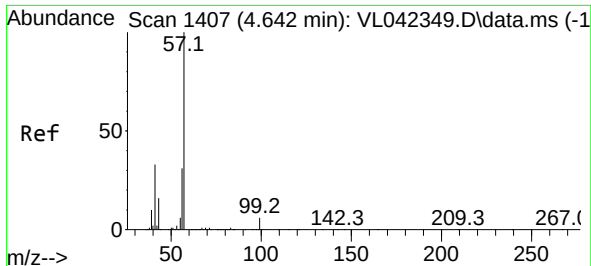
Ion Ratio Lower Upper

42 100

72 0.0 32.3 48.5#

71 0.0 31.4 47.2#

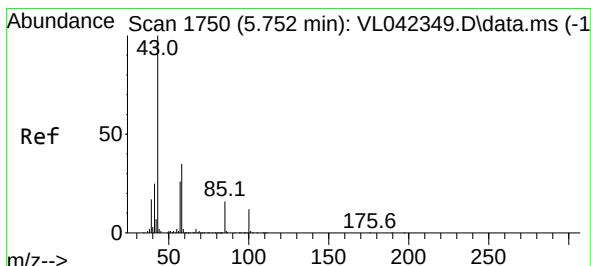
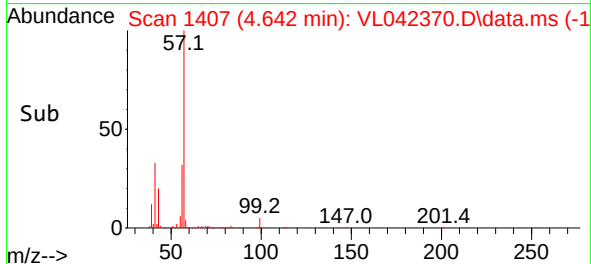
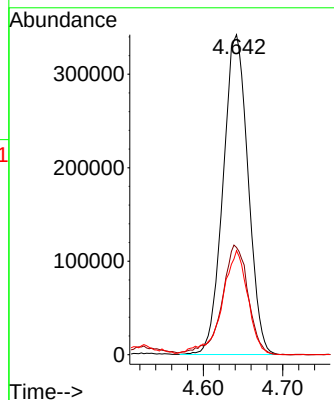
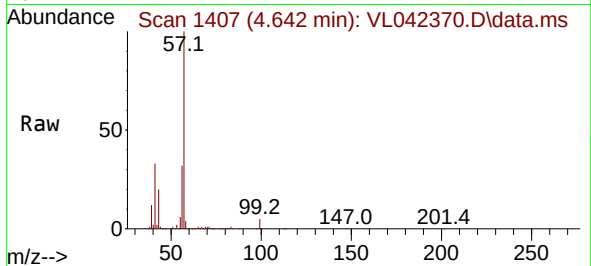




#44
2,2,4-Trimethylpentane
Concen: 12.103 ppbv
RT: 4.642 min Scan# 1407
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

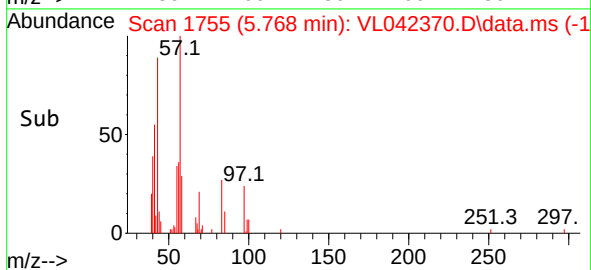
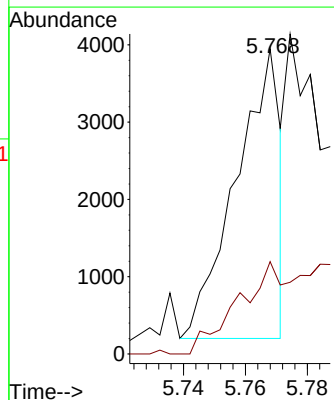
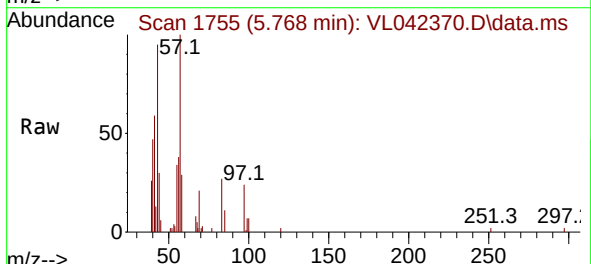
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

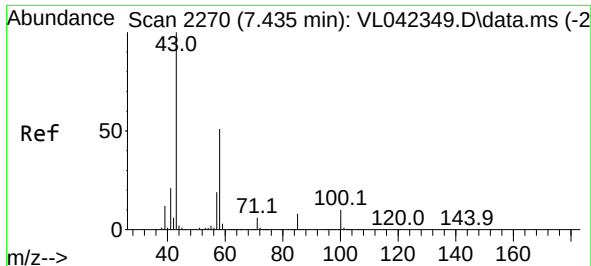
Tgt Ion:	57	Resp:	746896
Ion	Ratio	Lower	Upper
57	100		
41	36.1	27.2	40.8
56	33.9	25.7	38.5



#50
4-Methyl-2-Pentanone
Concen: 0.085 ppbv
RT: 5.768 min Scan# 1755
Delta R.T. 0.016 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion:	43	Resp:	3714
Ion	Ratio	Lower	Upper
43	100		
58	85.7	28.6	43.0#

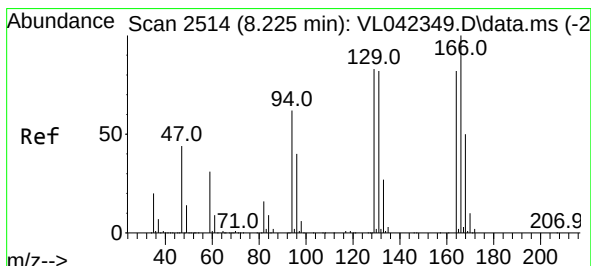
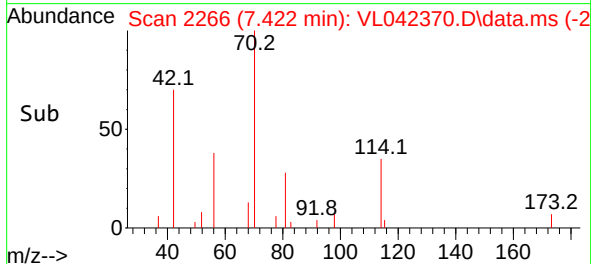
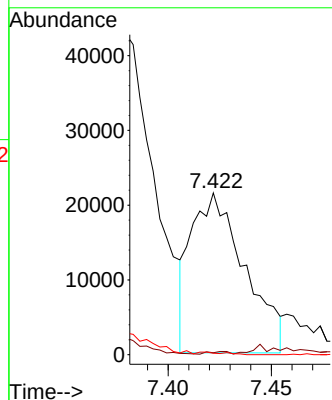
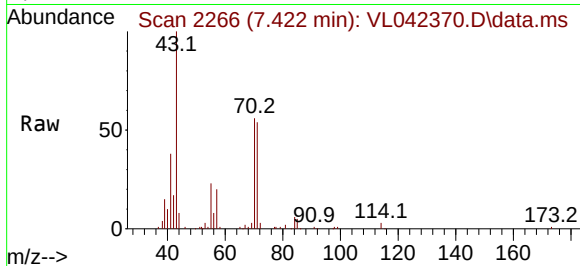




#51
2-Hexanone
Concen: 0.988 ppbv
RT: 7.422 min Scan# 213
Delta R.T. -0.013 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

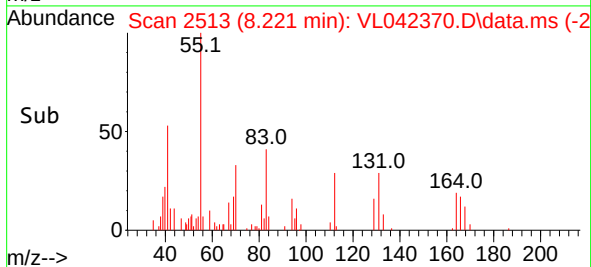
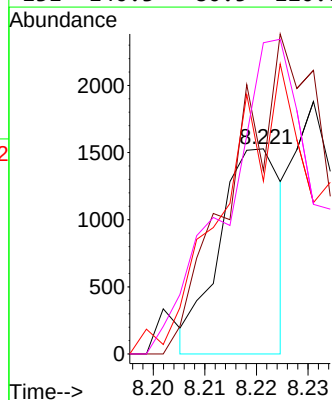
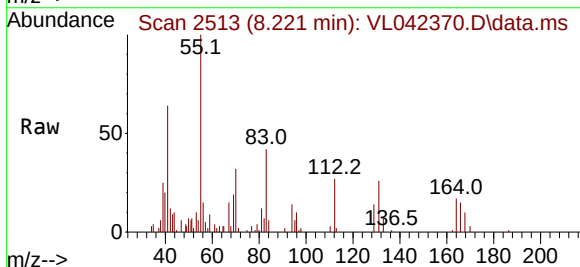
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

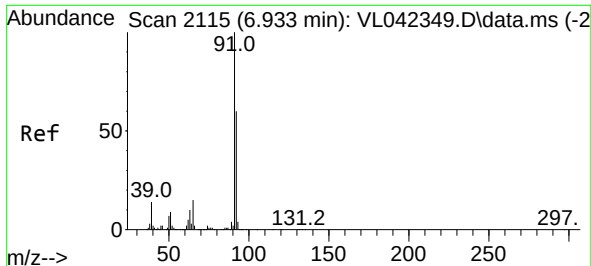
Tgt Ion: 43 Resp: 38587
Ion Ratio Lower Upper
43 100
58 0.0 40.2 60.4#
98 0.0 0.1 0.1#



#52
Tetrachloroethene
Concen: 0.092 ppbv
RT: 8.221 min Scan# 2513
Delta R.T. -0.003 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion: 164 Resp: 1269
Ion Ratio Lower Upper
164 100
166 86.7 98.2 147.2#
129 70.5 81.8 122.8#
131 140.3 80.5 120.7#

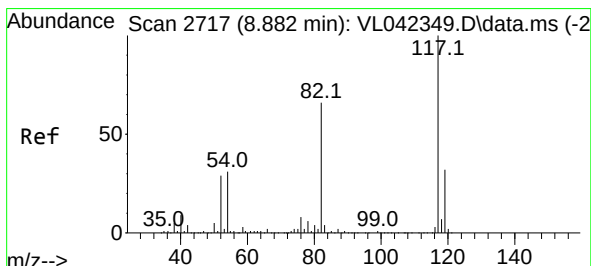
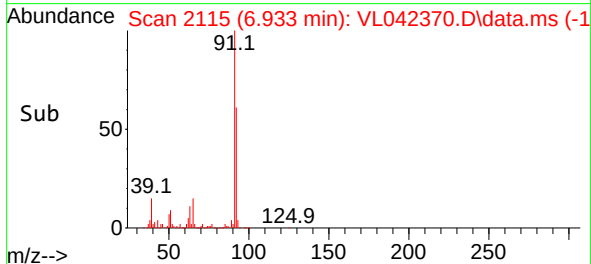
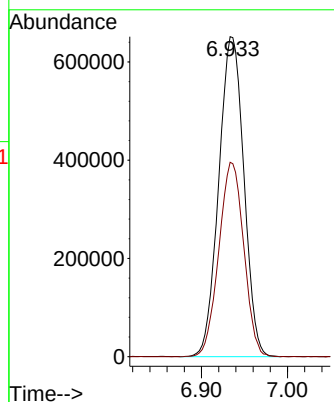
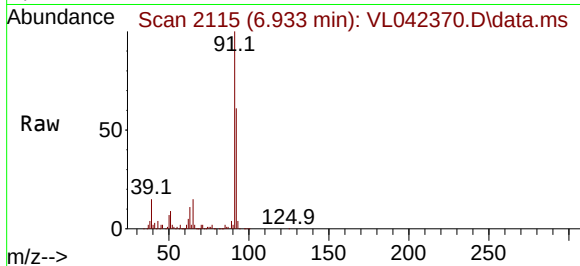




#53
Toluene
Concen: 30.789 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

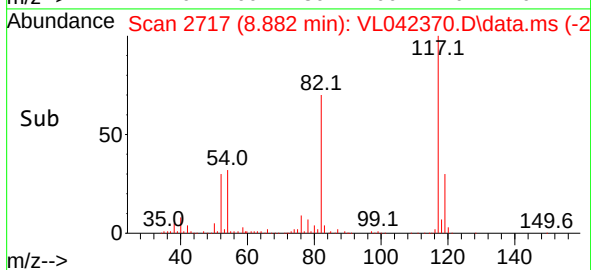
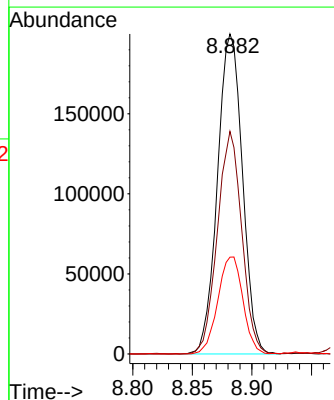
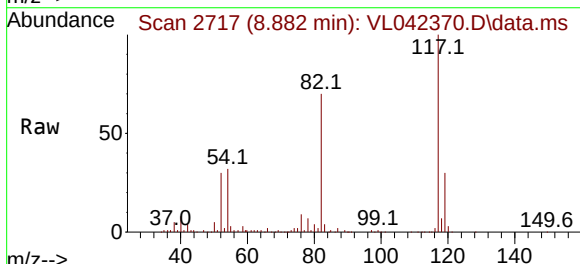
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

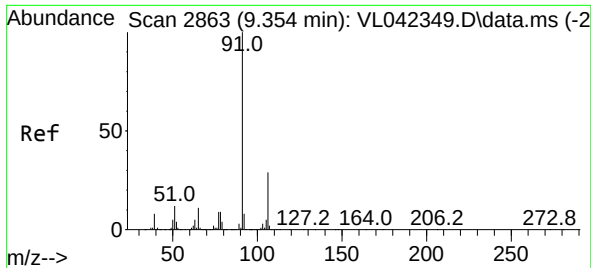
Tgt Ion: 91 Resp: 1320170
Ion Ratio Lower Upper
91 100
92 60.4 48.2 72.4



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2717
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion: 117 Resp: 291013
Ion Ratio Lower Upper
117 100
82 67.8 57.8 86.6
119 30.5 25.2 37.8

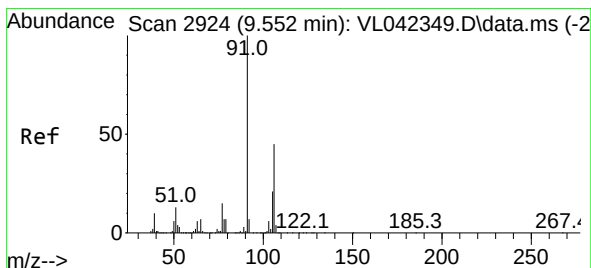
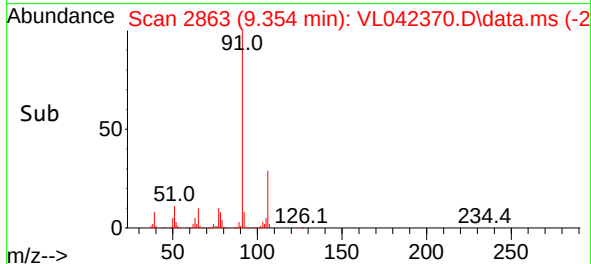
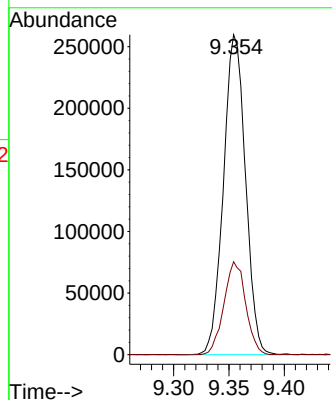
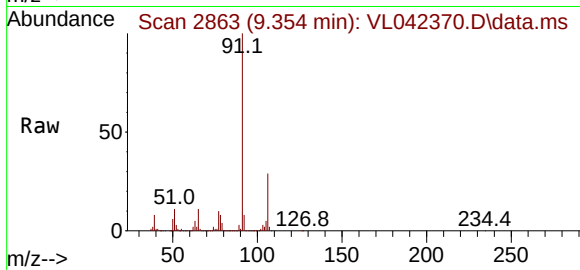




#58
Ethyl Benzene
Concen: 6.245 ppbv
RT: 9.354 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

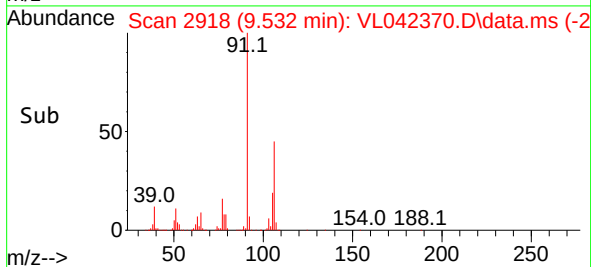
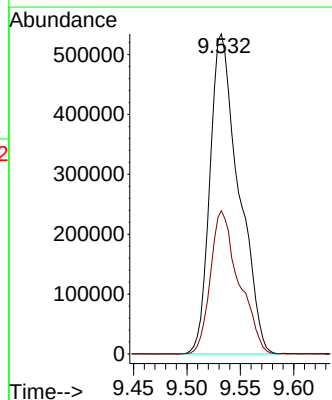
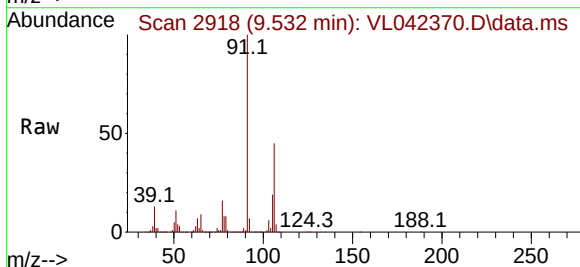
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

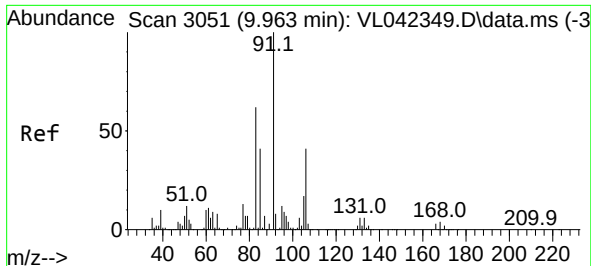
Tgt Ion: 91 Resp: 360069
Ion Ratio Lower Upper
91 100
106 29.1 23.0 34.4



#59
m/p-Xylene
Concen: 21.619 ppbv
RT: 9.532 min Scan# 2918
Delta R.T. -0.019 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion: 91 Resp: 1004159
Ion Ratio Lower Upper
91 100
106 44.2 35.4 53.2

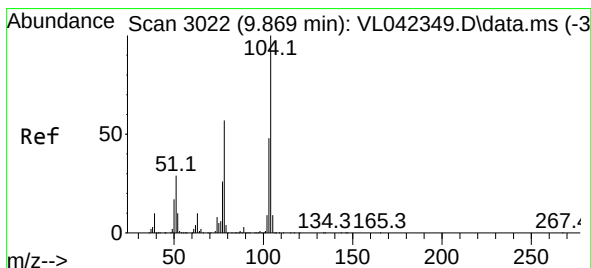
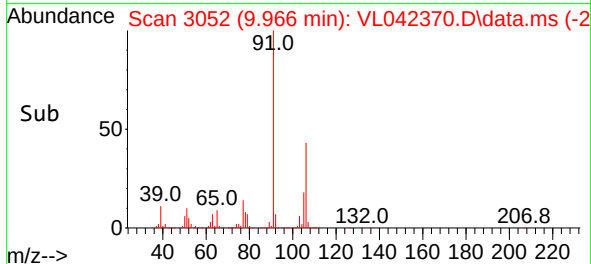
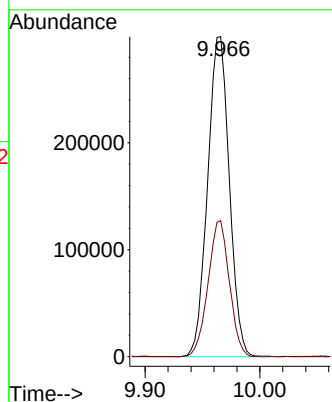
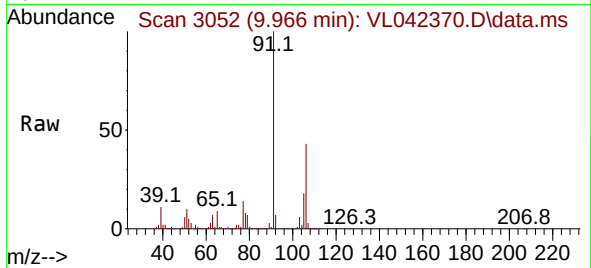




#60
o-Xylene
Concen: 8.410 ppbv
RT: 9.966 min Scan# 3051
Delta R.T. 0.003 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

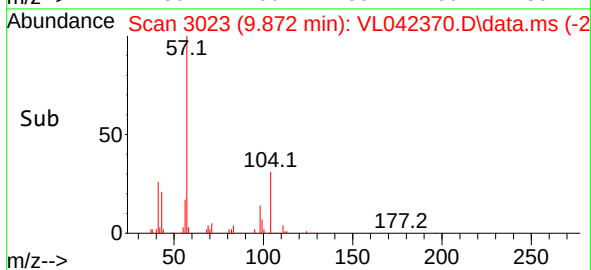
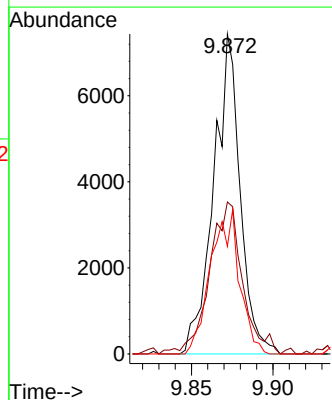
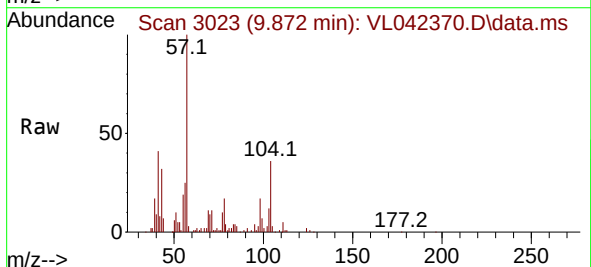
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

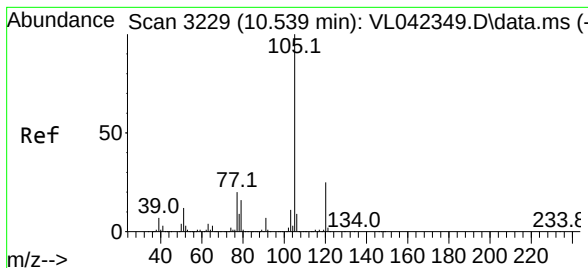
Tgt Ion: 91 Resp: 393388
Ion Ratio Lower Upper
91 100
106 41.9 21.1 63.4



#61
Styrene
Concen: 0.376 ppbv
RT: 9.872 min Scan# 3023
Delta R.T. 0.003 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion: 104 Resp: 8391
Ion Ratio Lower Upper
104 100
78 60.3 44.6 66.8
103 49.1 37.4 56.0





#62

Isopropylbenzene

Concen: 0.575 ppbv

RT: 10.539 min Scan# 31

Delta R.T. 0.000 min

Lab File: VL042370.D

Acq: 17 Apr 2025 22:19

Instrument :

MSVOA_L

ClientSampleId :

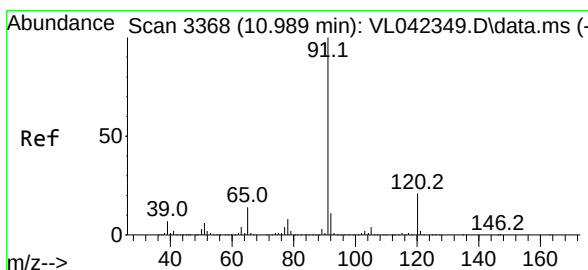
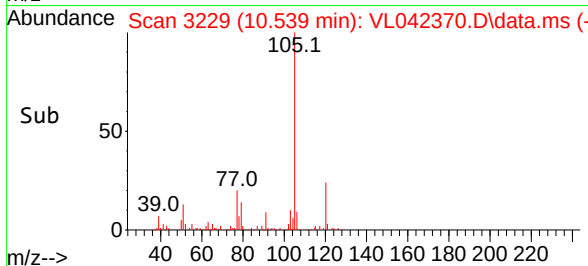
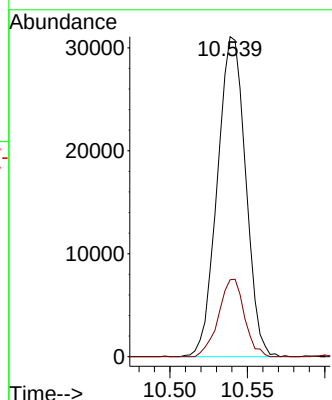
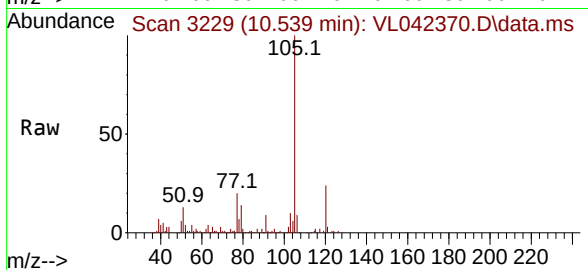
IA-B2-1-03312025

Tgt Ion:105 Resp: 39493

Ion Ratio Lower Upper

105 100

120 22.1 19.8 29.8



#64

n-propylbenzene

Concen: 1.858 ppbv

RT: 10.989 min Scan# 3368

Delta R.T. 0.000 min

Lab File: VL042370.D

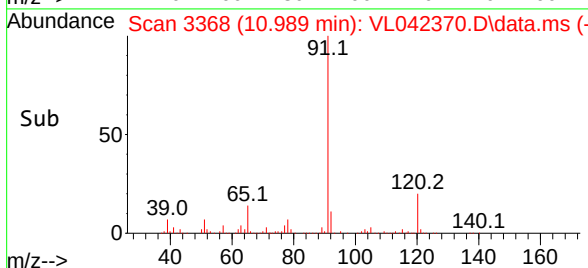
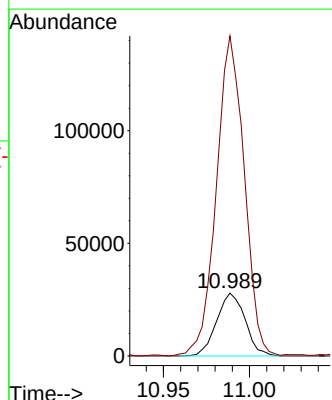
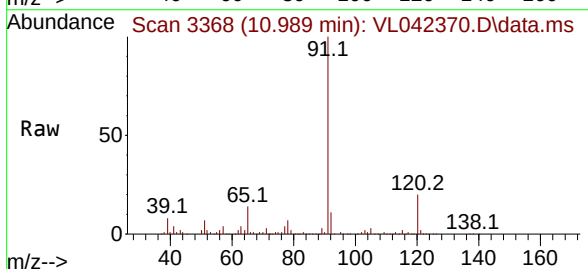
Acq: 17 Apr 2025 22:19

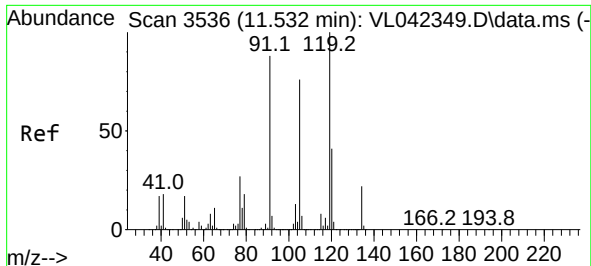
Tgt Ion:120 Resp: 32073

Ion Ratio Lower Upper

120 100

91 500.9 392.4 588.6

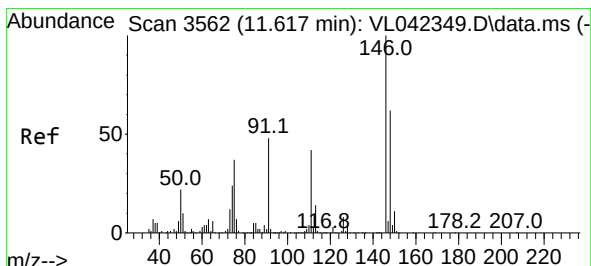
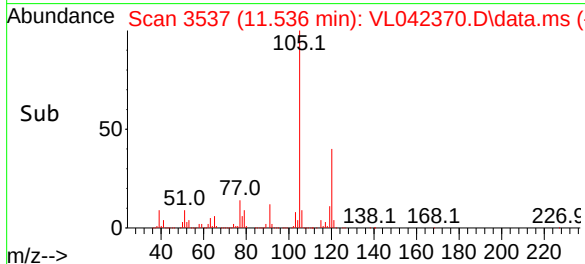
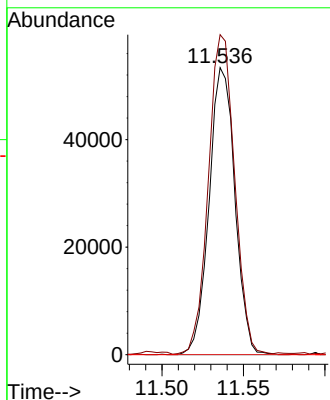
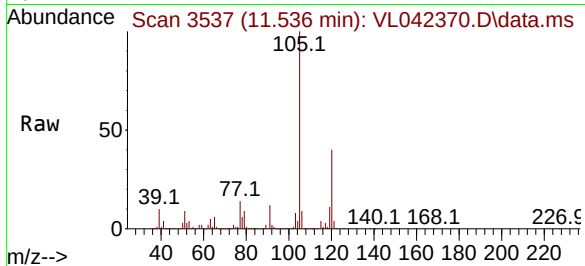




#65
tert-Butylbenzene
Concen: 0.932 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. 0.003 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

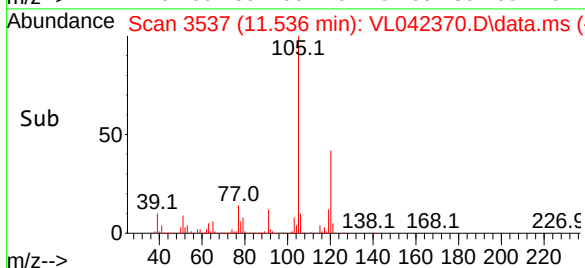
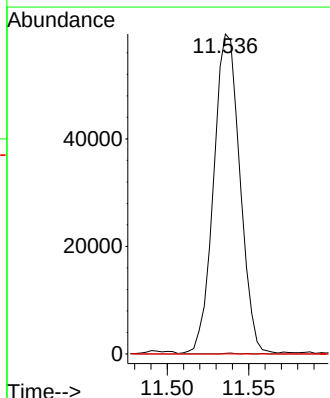
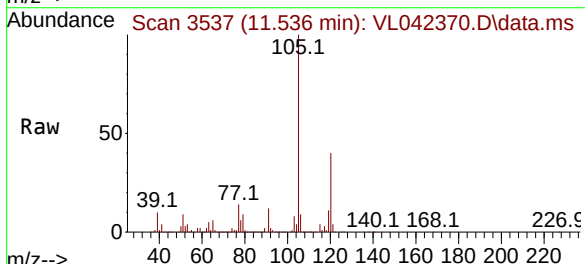
Instrument :
MSVOA_1
ClientSampleId :
IA-B2-1-03312025

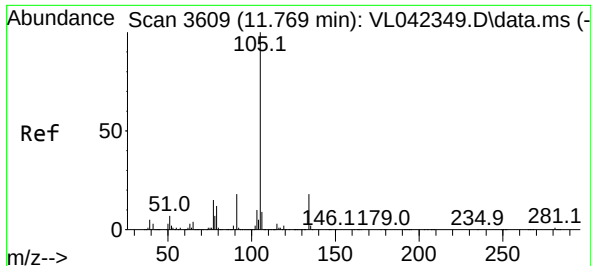
Tgt Ion:119 Resp: 58794
Ion Ratio Lower Upper
119 100
91 113.4 74.6 111.8#
134 0.0 18.8 28.2#



#66
Benzyl Chloride
Concen: 9.598 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.081 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion: 91 Resp: 66566
Ion Ratio Lower Upper
91 100
126 0.1 11.8 17.6#
128 0.0 4.5 6.7#

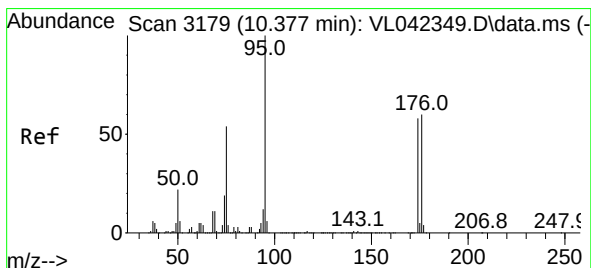
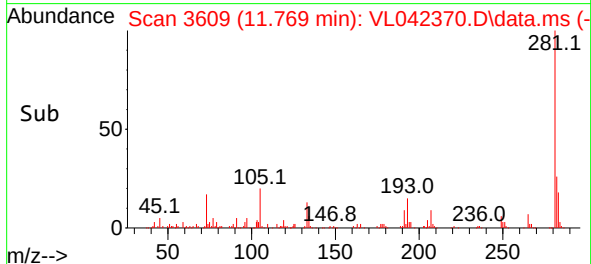
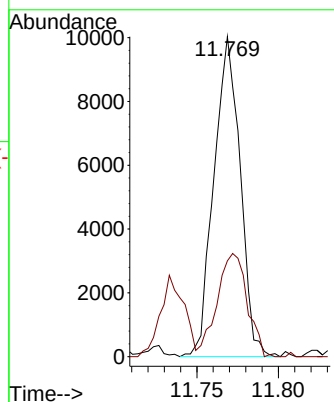
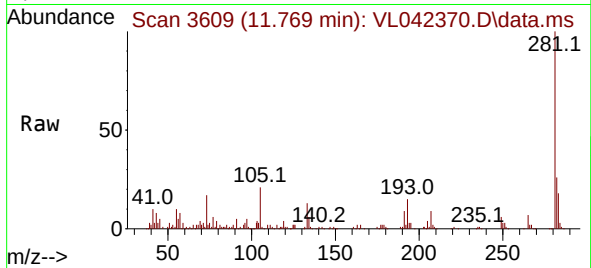




#67
 sec-Butylbenzene
 Concen: 0.128 ppbv
 RT: 11.769 min Scan# 3609
 Delta R.T. 0.000 min
 Lab File: VL042370.D
 Acq: 17 Apr 2025 22:19

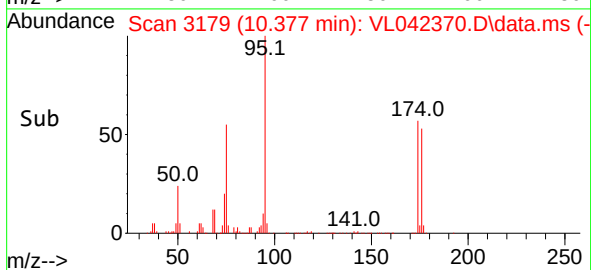
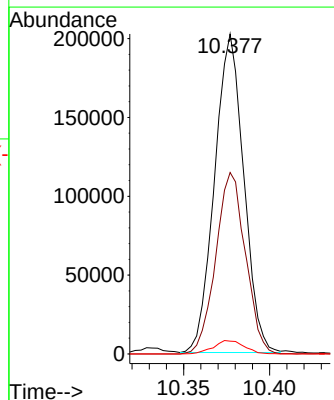
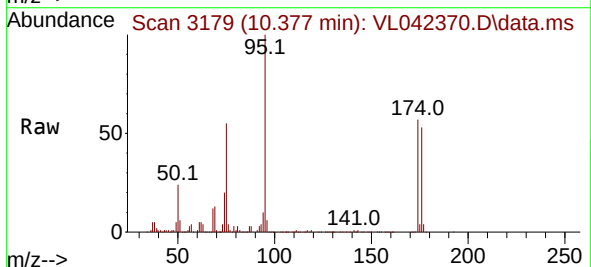
Instrument :
 MSVOA_1
 ClientSampleId :
 IA-B2-1-03312025

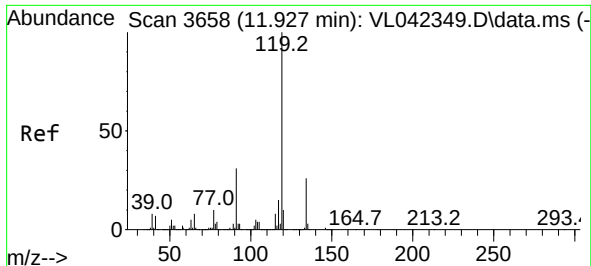
Tgt Ion:105 Resp: 11229
 Ion Ratio Lower Upper
 105 100
 134 35.1 14.6 21.8#



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.966 ppbv
 RT: 10.377 min Scan# 3179
 Delta R.T. 0.000 min
 Lab File: VL042370.D
 Acq: 17 Apr 2025 22:19

Tgt Ion: 95 Resp: 238323
 Ion Ratio Lower Upper
 95 100
 174 58.0 48.5 72.7
 175 4.5 3.7 5.5

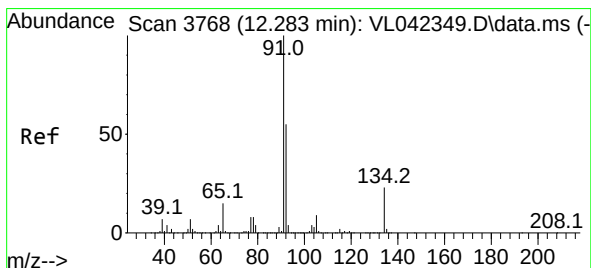
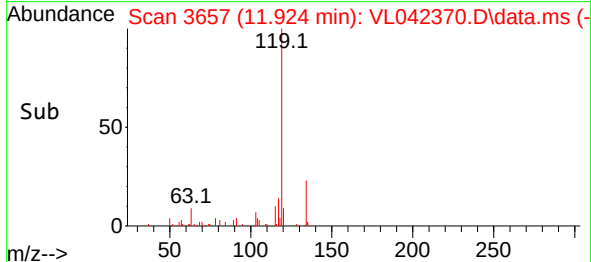
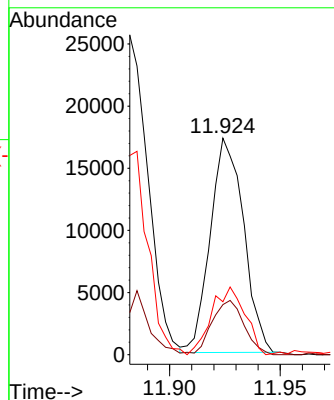
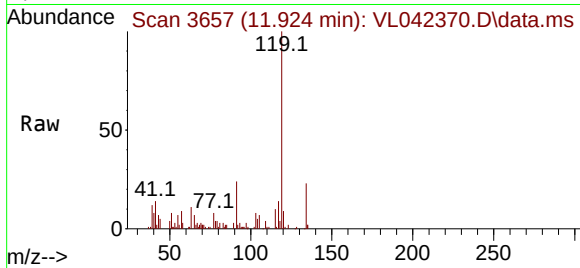




#69
p-Isopropyltoluene
Concen: 0.237 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. -0.003 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

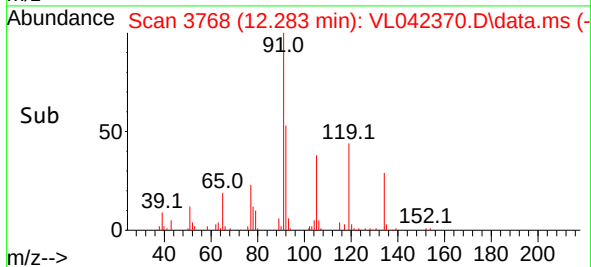
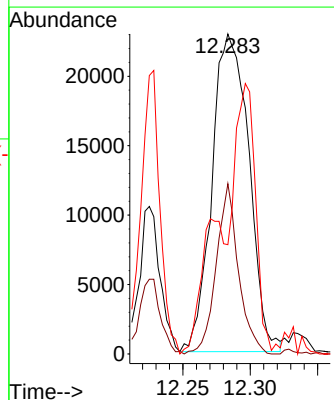
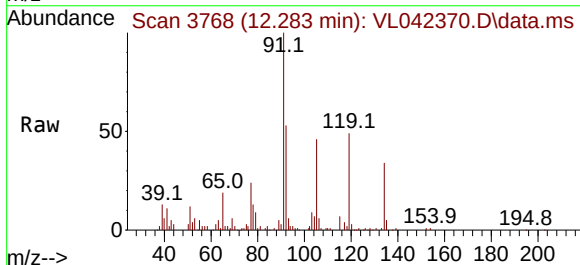
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

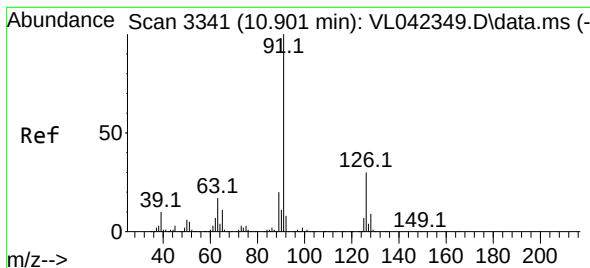
Tgt Ion: 119 Resp: 18095
Ion Ratio Lower Upper
119 100
134 24.6 20.0 30.0
91 31.1 24.4 36.6



#70
n-Butylbenzene
Concen: 0.548 ppbv
RT: 12.283 min Scan# 3768
Delta R.T. 0.000 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion: 91 Resp: 43525
Ion Ratio Lower Upper
91 100
92 32.2 44.2 66.4#
134 81.0 18.2 27.4#

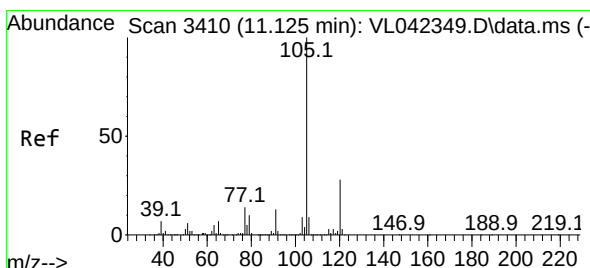
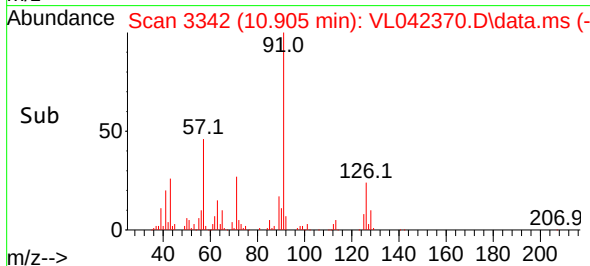
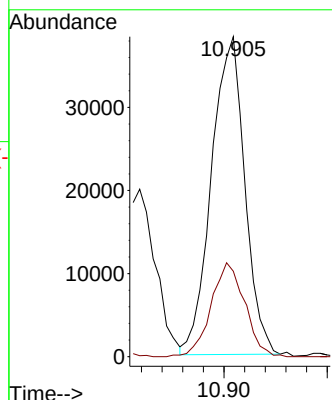
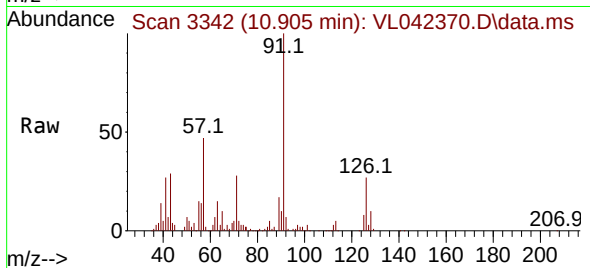




#71
2-Chlorotoluene
Concen: 0.796 ppbv
RT: 10.905 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

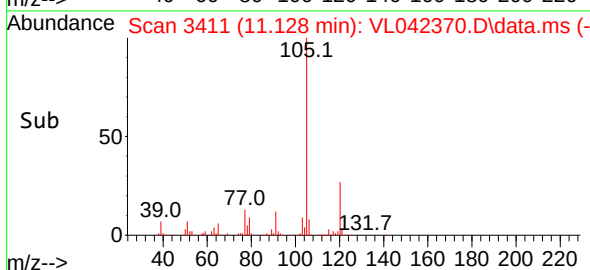
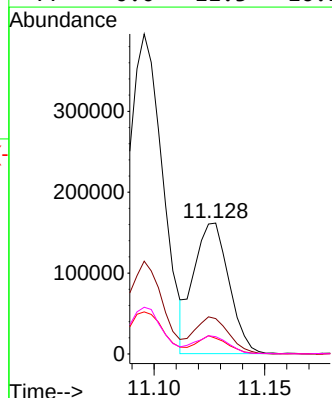
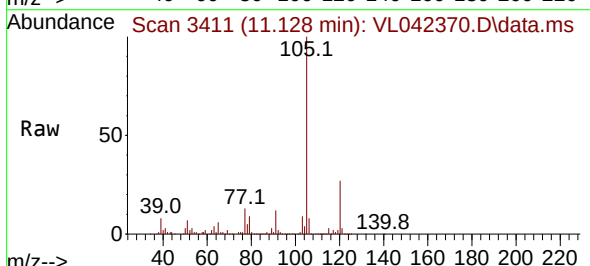
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025

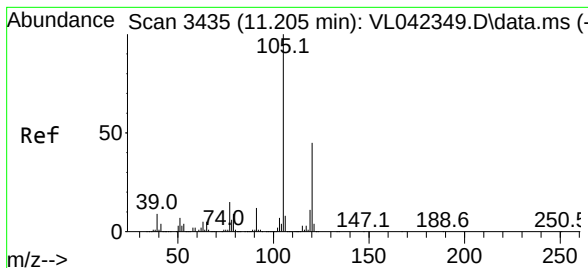
Tgt Ion: 91 Resp: 42867
Ion Ratio Lower Upper
91 100
126 29.9 11.4 45.4



#72
4-Ethyltoluene
Concen: 3.128 ppbv
RT: 11.128 min Scan# 3411
Delta R.T. 0.003 min
Lab File: VL042370.D
Acq: 17 Apr 2025 22:19

Tgt Ion: 105 Resp: 178872
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: 3.443 ppbv

RT: 11.206 min Scan# 34

Delta R.T. 0.000 min

Lab File: VL042370.D

Acq: 17 Apr 2025 22:19

Instrument :

MSVOA_1

ClientSampleId :

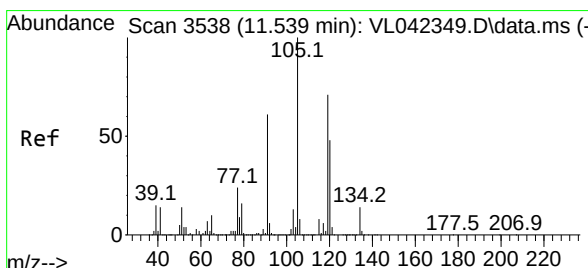
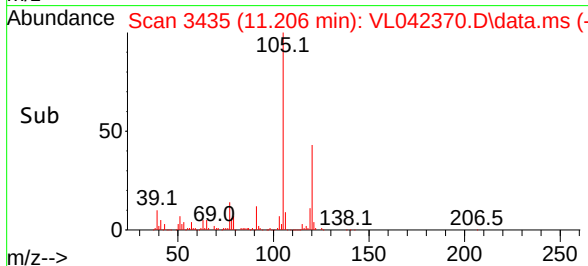
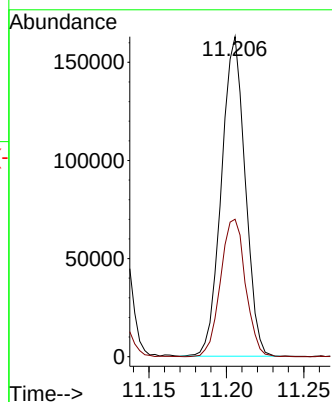
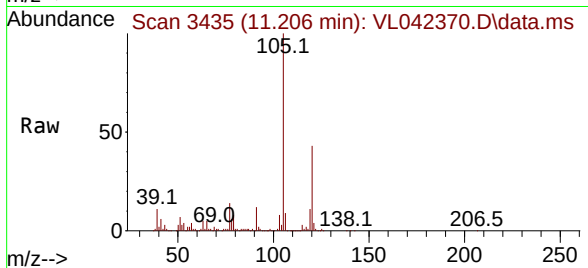
IA-B2-1-03312025

Tgt Ion:105 Resp: 173796

Ion Ratio Lower Upper

105 100

120 43.0 35.6 53.4



#74

1,2,4-Trimethylbenzene

Concen: 9.336 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. -0.003 min

Lab File: VL042370.D

Acq: 17 Apr 2025 22:19

Tgt Ion:105 Resp: 550459

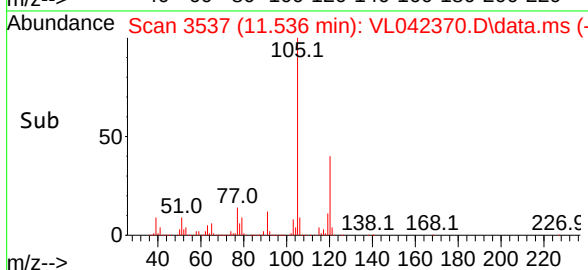
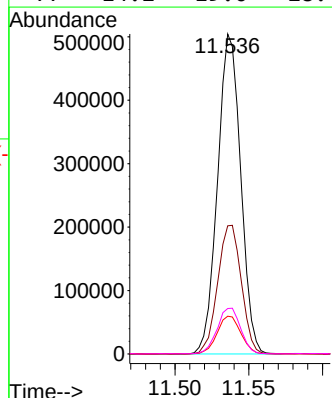
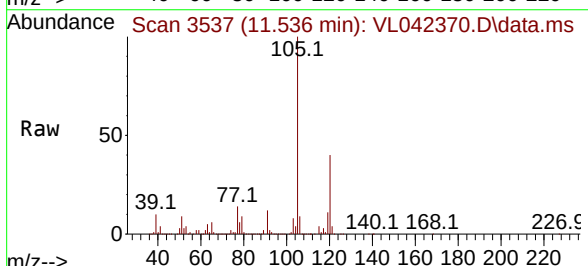
Ion Ratio Lower Upper

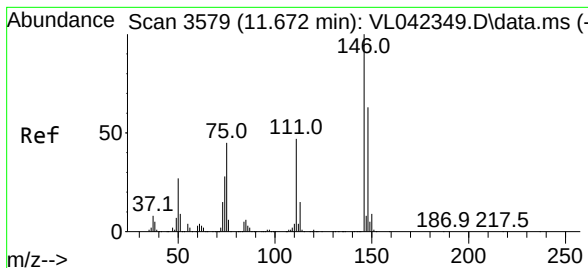
105 100

120 40.1 38.1 57.1

91 11.7 48.8 73.2#

77 14.2 19.0 28.4#





#76

1,4-Dichlorobenzene

Concen: 0.149 ppbv

RT: 11.672 min Scan# 3579

Delta R.T. 0.000 min

Lab File: VL042370.D

Acq: 17 Apr 2025 22:19

Instrument :

MSVOA_1

ClientSampleId :

IA-B2-1-03312025

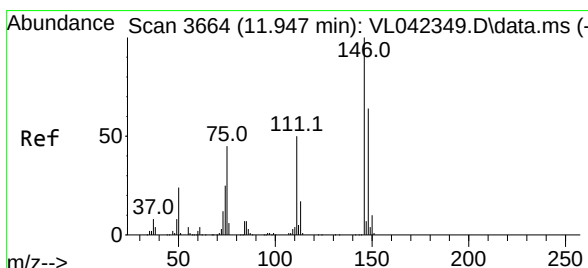
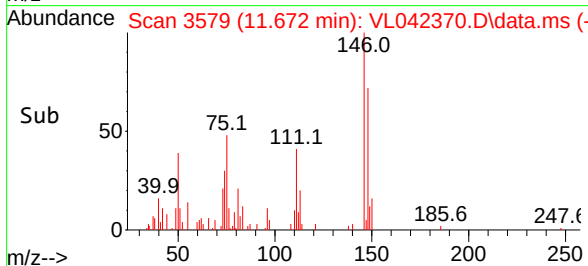
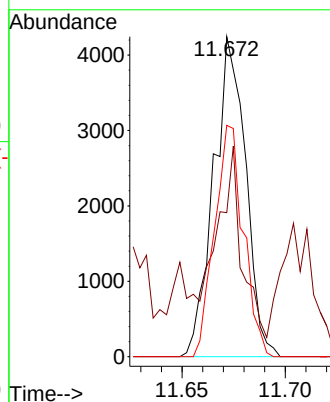
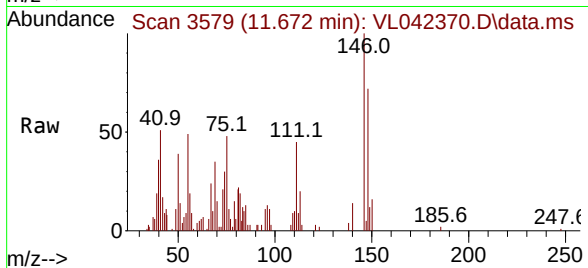
Tgt Ion:146 Resp: 4575

Ion Ratio Lower Upper

146 100

111 68.4 24.2 72.6

148 65.0 32.1 96.5



#77

1,2-Dichlorobenzene

Concen: 0.154 ppbv

RT: 11.672 min Scan# 3579

Delta R.T. -0.275 min

Lab File: VL042370.D

Acq: 17 Apr 2025 22:19

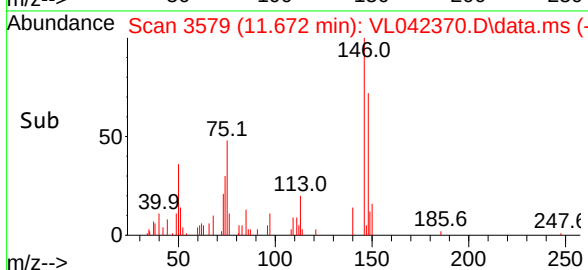
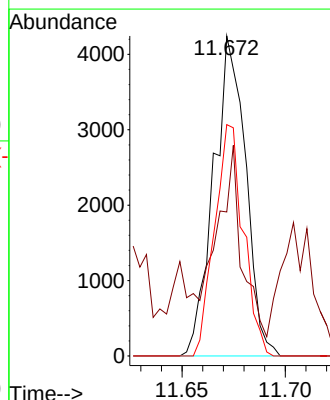
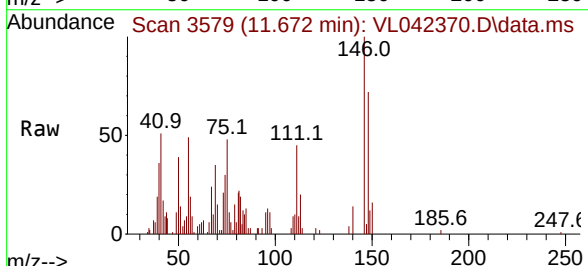
Tgt Ion:146 Resp: 4575

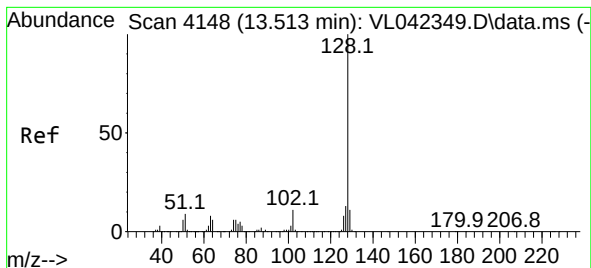
Ion Ratio Lower Upper

146 100

111 58.3 25.3 75.9

148 65.0 31.5 94.5





#79

Naphthalene

Concen: 0.364 ppbv

RT: 13.513 min Scan# 4148

Delta R.T. 0.000 min

Lab File: VL042370.D

Acq: 17 Apr 2025 22:19

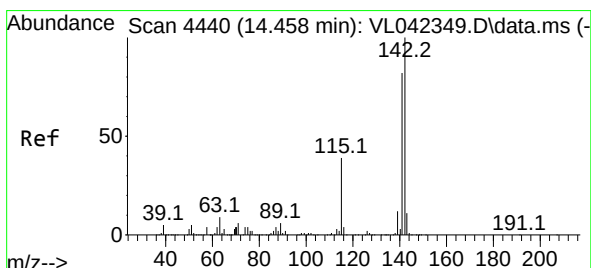
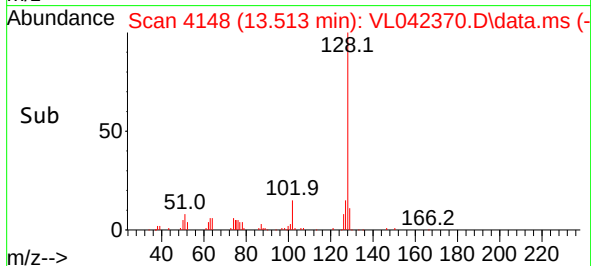
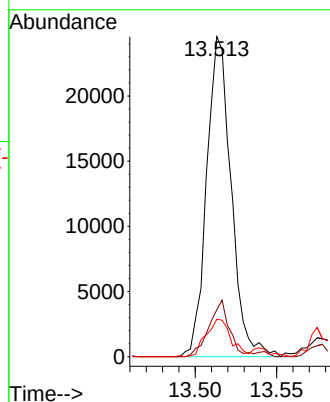
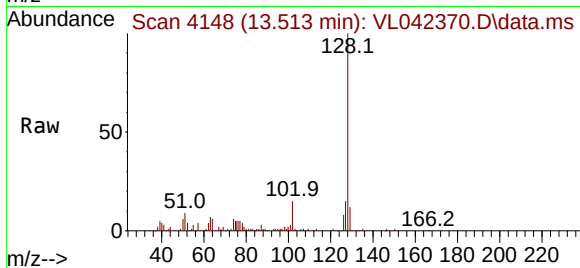
Instrument :

MSVOA_L

ClientSampleId :

IA-B2-1-03312025

Tgt Ion:128	Resp:	25684
Ion Ratio	Lower	Upper
128	100	
127	14.7	10.6 15.8
129	11.7	8.6 12.8



#80

Naphthalene,2-methyl-

Concen: 0.037 ppbv

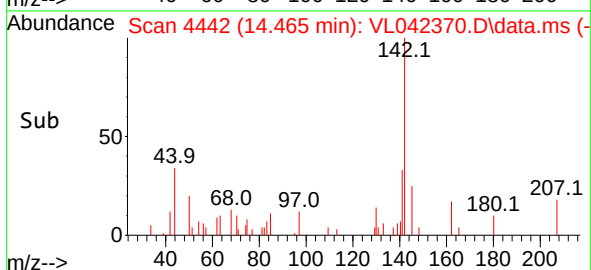
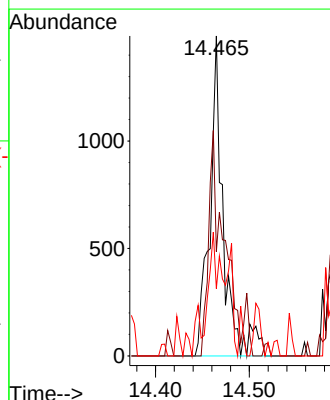
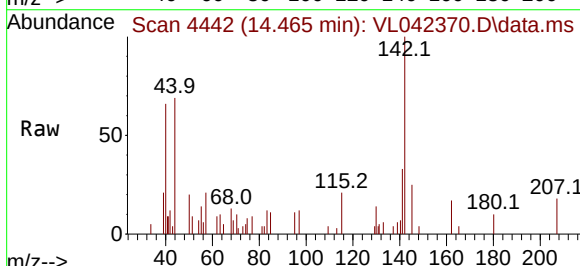
RT: 14.465 min Scan# 4442

Delta R.T. 0.007 min

Lab File: VL042370.D

Acq: 17 Apr 2025 22:19

Tgt Ion:142	Resp:	1496
Ion Ratio	Lower	Upper
142	100	
141	85.2	66.8 100.2
115	75.7	33.4 50.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042371.D
 Acq On : 17 Apr 2025 22:52
 Operator : SY/MD
 Sample : Q1726-06
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-3-03312025

Quant Time: Apr 18 02:45:58 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	2.787	49	113154	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	322735	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	284478	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	237949	10.179	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.800%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	9517	0.476	ppbv	98
3) Chlorodifluoromethane	1.466	51	70640	3.711	ppbv #	62
4) Chloromethane	1.534	50	9764	1.234	ppbv	98
6) Bromomethane	1.670	94	582	0.157	ppbv	94
7) Chloroethane	1.703	64	262	0.084	ppbv	93
9) Propene	1.560	41	95611	11.028	ppbv	91
10) Heptane	4.981	43	82673	3.394	ppbv	99
11) Trichlorofluoromethane	1.874	101	4499	0.237	ppbv #	83
12) 1,1,2-Trichlorotrifluo...	2.140	101	1043	0.067	ppbv #	64
13) Ethanol	1.722	45	429340	311.565	ppbv	75
15) Acetone	1.835	43	3062508	165.330	ppbv #	44
16) 1,3-Butadiene	1.622	39	32090	3.622	ppbv #	16
17) tert-Butyl alcohol	2.272	59	50884	2.217	ppbv	97
19) Isopropyl Alcohol	1.887	45	355287	34.527	ppbv #	33
20) Methylene Chloride	2.062	84	22966	3.166	ppbv	89
21) Allyl Chloride	2.046	41	4920	0.385	ppbv #	35
23) Vinyl Acetate	2.457	43	29683	3.959	ppbv #	78
25) Ethyl Acetate	2.826	43	56098	1.228	ppbv #	84
26) Hexane	2.826	57	65232	3.529	ppbv #	37
27) Carbon Disulfide	2.149	76	1709	0.086	ppbv #	41
29) Chloroform	2.852	83	3991	0.153	ppbv	86
30) Cyclohexane	3.855	84	16571	1.109	ppbv #	84
34) 2-Butanone	2.560	43	54027	2.117	ppbv	99
35) Carbon Tetrachloride	3.764	117	2319	0.079	ppbv	84
36) Benzene	3.661	78	36905	1.060	ppbv	96
37) 1,2-Dichloroethane	3.221	62	4782	0.229	ppbv	97
39) 1,2-Dichloropropane	3.962	63	85836	6.617	ppbv #	22
41) Tetrahydrofuran	3.065	42	5065	0.340	ppbv #	78
43) Methyl Methacrylate	4.891	69	807	0.051	ppbv #	1
44) 2,2,4-Trimethylpentane	4.645	57	567345	9.437	ppbv	95
50) 4-Methyl-2-Pentanone	5.765	43	2416	0.057	ppbv #	39
51) 2-Hexanone	7.422	43	28690	0.754	ppbv #	27
52) Tetrachloroethene	8.228	164	1390	0.103	ppbv #	80
53) Toluene	6.936	91	931135	22.290	ppbv	99
58) Ethyl Benzene	9.357	91	239708	4.253	ppbv	98
59) m/p-Xylene	9.532	91	678219	14.937	ppbv	100
60) o-Xylene	9.966	91	265965	5.817	ppbv	99
61) Styrene	9.872	104	8564	0.392	ppbv	95
62) Isopropylbenzene	10.539	105	26216	0.391	ppbv	99
64) n-propylbenzene	10.992	120	21875	1.296	ppbv	95
65) tert-Butylbenzene	11.536	119	43701	0.708	ppbv #	68
66) Benzyl Chloride	11.536	91	51402	7.582	ppbv #	70
67) sec-Butylbenzene	11.772	105	8506	0.099	ppbv #	73

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042371.D
 Acq On : 17 Apr 2025 22:52
 Operator : SY/MD
 Sample : Q1726-06
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-3-03312025

Quant Time: Apr 18 02:45:58 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)

69) p-Isopropyltoluene	11.927	119	23201	0.311	ppbv	94
70) n-Butylbenzene	12.283	91	24014	0.309	ppbv #	74
71) 2-Chlorotoluene	10.901	91	44364	0.843	ppbv	96
72) 4-Ethyltoluene	11.125	105	117824	2.108	ppbv #	56
73) 1,3,5-Trimethylbenzene	11.205	105	128254	2.599	ppbv	99
74) 1,2,4-Trimethylbenzene	11.536	105	415758	7.213	ppbv #	63
76) 1,4-Dichlorobenzene	11.675	146	6136	0.204	ppbv	82
77) 1,2-Dichlorobenzene	11.675	146	6136	0.211	ppbv	95
79) Naphthalene	13.516	128	31283	0.454	ppbv #	95
80) Naphthalene,2-methyl-	14.461	142	5013	0.128	ppbv #	88

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

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

Abundance

TIC: VL042371.D\data.ms

Time-->

Chlorodifluoromethane, T

Propene, T

1,3-Butadiene, T

Acetylene, T

Isopropyl Alcohol, T

1,2-Dichlorobenzene, T

Toluene, T

m/p-Xylene, T

1-Bromo-4-Fluorobenzene, S

Chlorobenzene-d5, I

o-Xylene, T

Ethyl Benzene, T

Styrene, T

Isopropylbenzene, T

2-Chlorobenzene, T

1,2-Dichlorobenzene, T

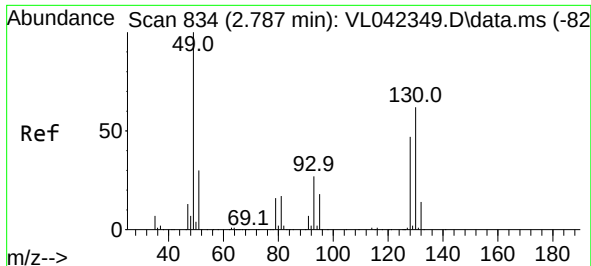
Isopropylbenzene, T

sec-Butylbenzene, T

n-Butylbenzene, T

Naphthalene, T

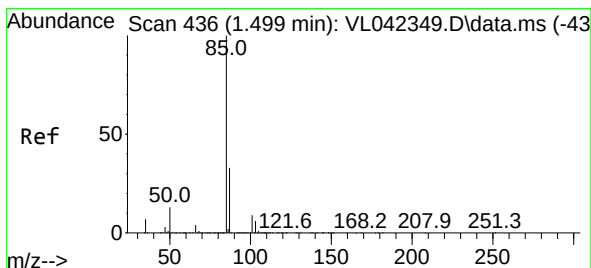
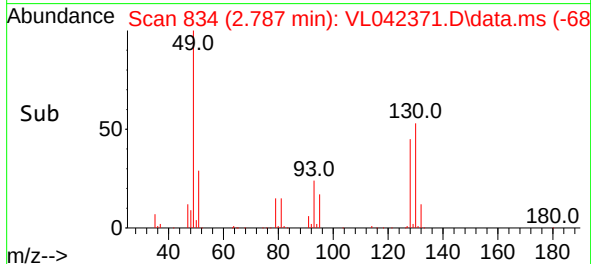
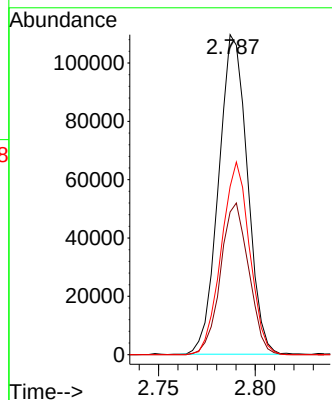
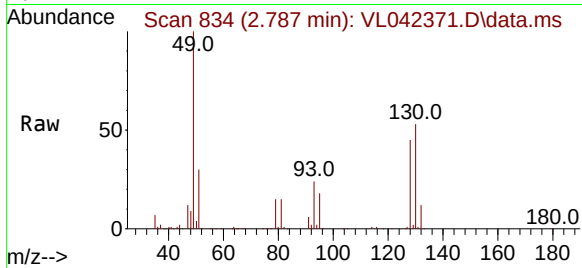
Naphthalene, 2-methyl-, T



#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.787 min Scan# 834
 Delta R.T. -0.000 min
 Lab File: VL042371.D
 Acq: 17 Apr 2025 22:52

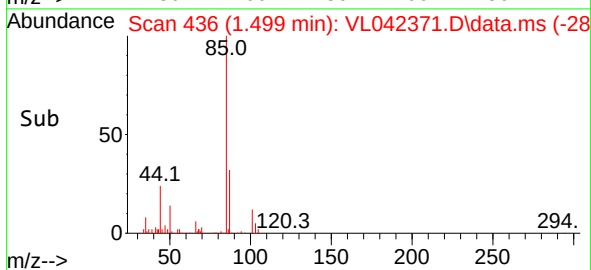
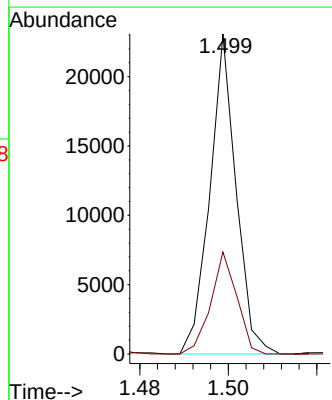
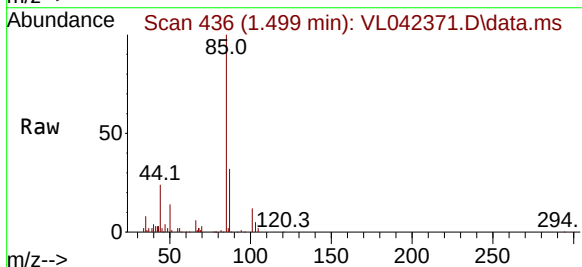
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-3-03312025

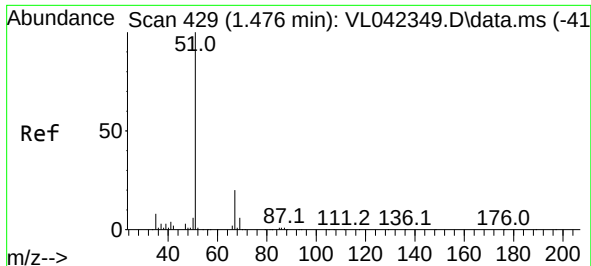
Tgt Ion: 49 Resp: 113154
 Ion Ratio Lower Upper
 49 100
 128 46.5 22.8 68.4
 130 59.1 29.3 88.0



#2
 Dichlorodifluoromethane
 Concen: 0.476 ppbv
 RT: 1.499 min Scan# 436
 Delta R.T. 0.000 min
 Lab File: VL042371.D
 Acq: 17 Apr 2025 22:52

Tgt Ion: 85 Resp: 9517
 Ion Ratio Lower Upper
 85 100
 87 31.9 26.6 39.8

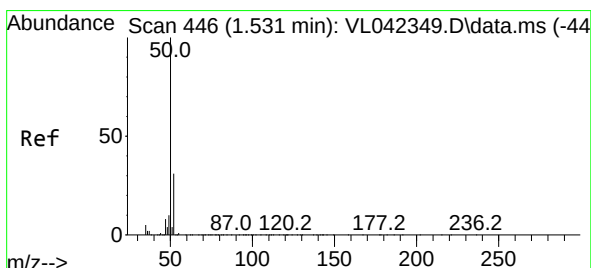
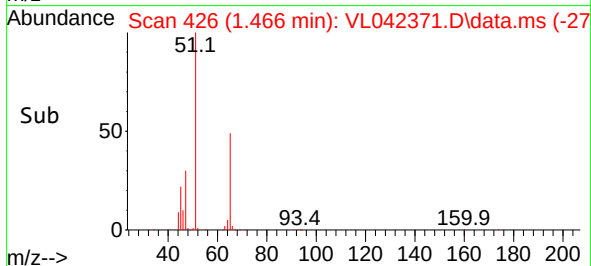
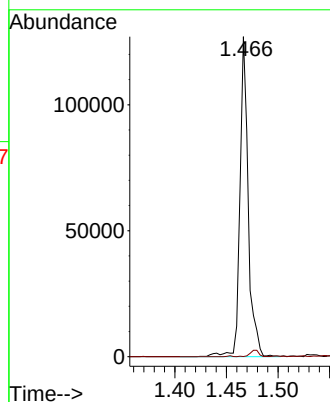
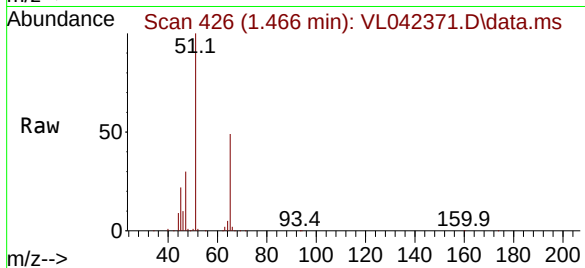




#3
Chlorodifluoromethane
Concen: 3.711 ppbv
RT: 1.466 min Scan# 41
Delta R.T. -0.010 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

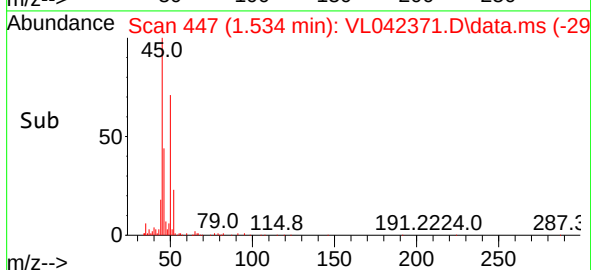
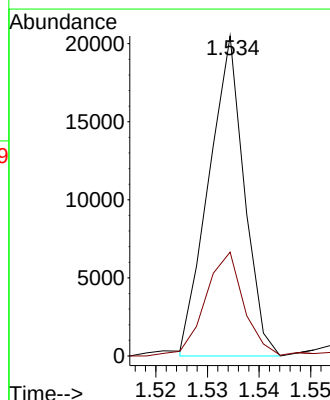
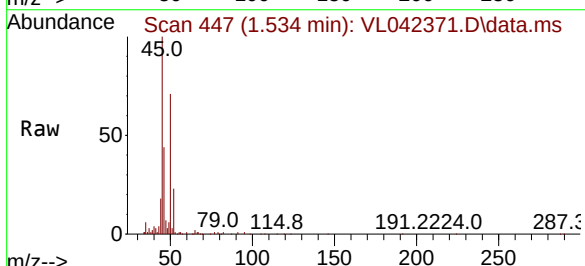
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

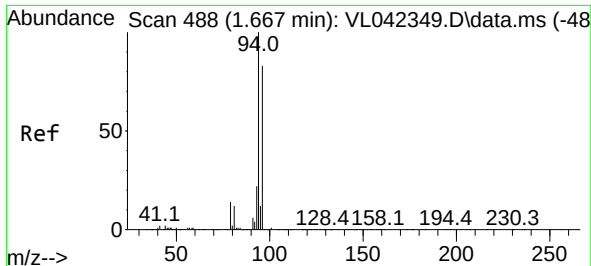
Tgt Ion: 51 Resp: 70640
Ion Ratio Lower Upper
51 100
67 2.6 16.2 24.4#



#4
Chloromethane
Concen: 1.234 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion: 50 Resp: 9764
Ion Ratio Lower Upper
50 100
52 32.2 24.7 37.1

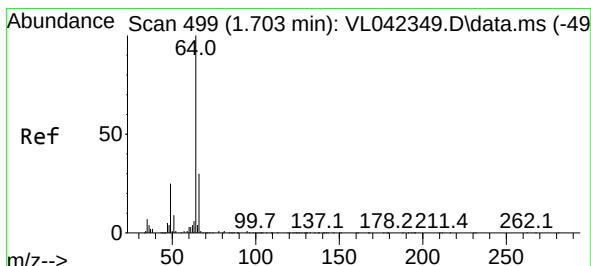
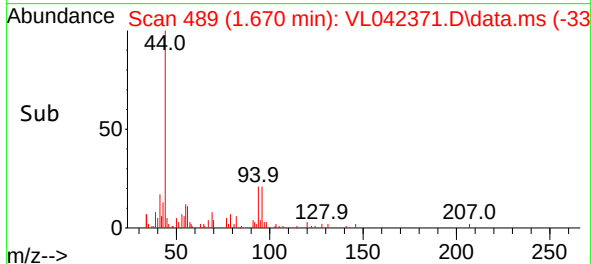
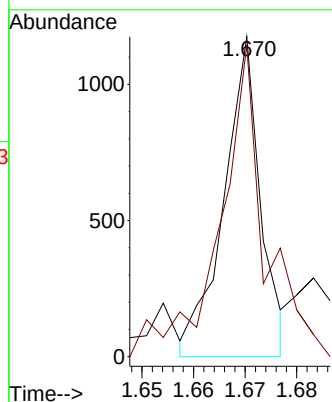
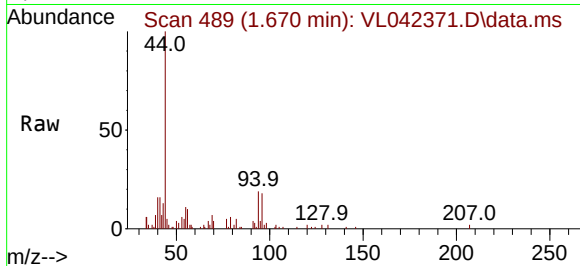




#6
Bromomethane
Concen: 0.157 ppbv
RT: 1.670 min Scan# 489
Delta R.T. 0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

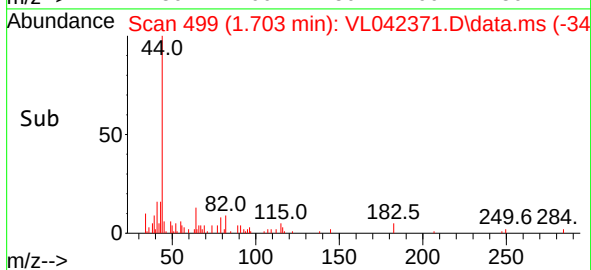
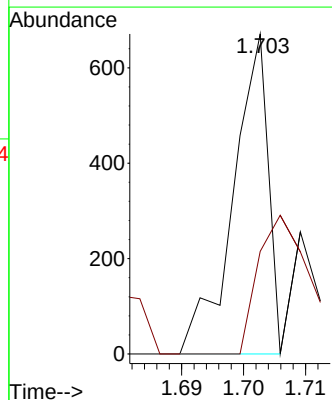
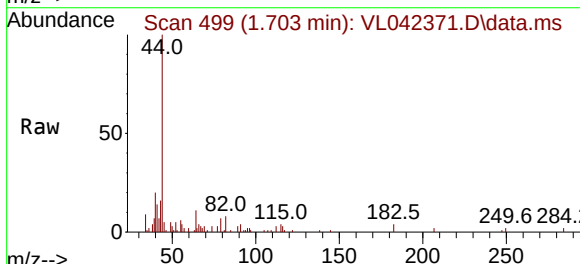
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

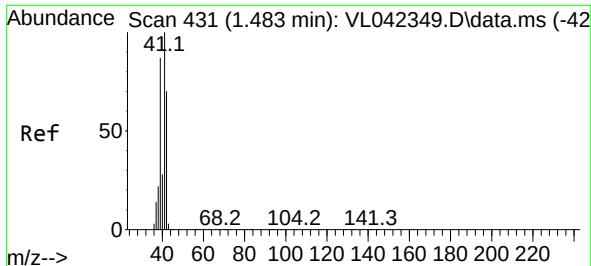
Tgt Ion: 94 Resp: 582
Ion Ratio Lower Upper
94 100
96 87.7 66.2 99.2



#7
Chloroethane
Concen: 0.084 ppbv
RT: 1.703 min Scan# 499
Delta R.T. -0.000 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion: 64 Resp: 262
Ion Ratio Lower Upper
64 100
66 27.0 24.6 37.0

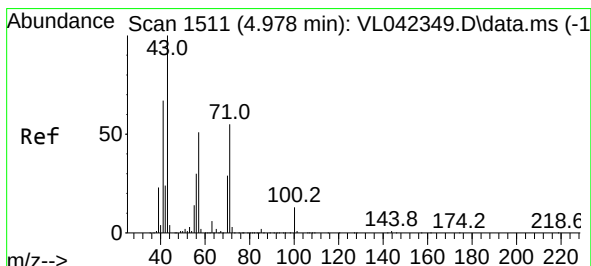
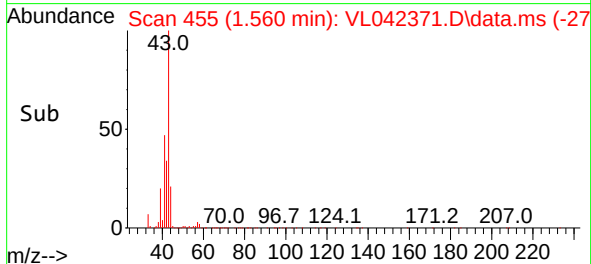
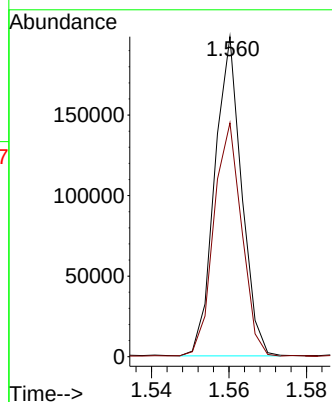
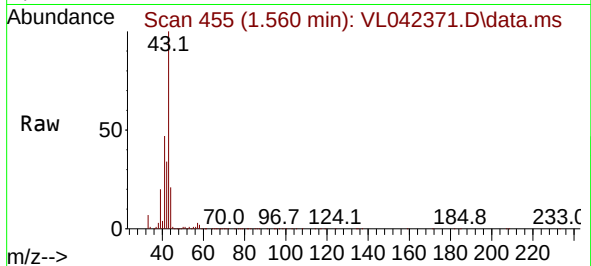




#9
Propene
Concen: 11.028 ppbv
RT: 1.560 min Scan# 41
Delta R.T. 0.078 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

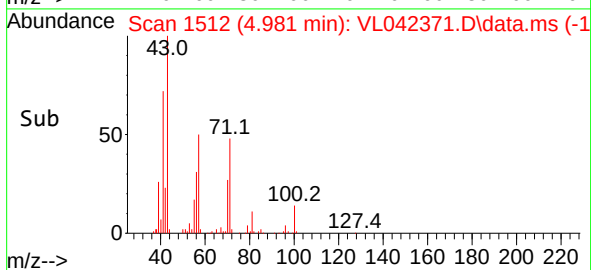
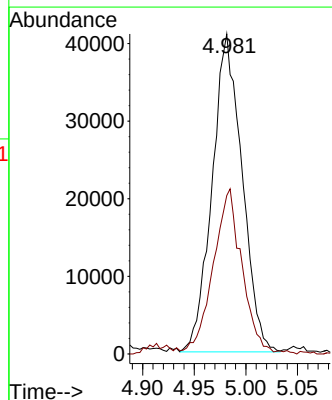
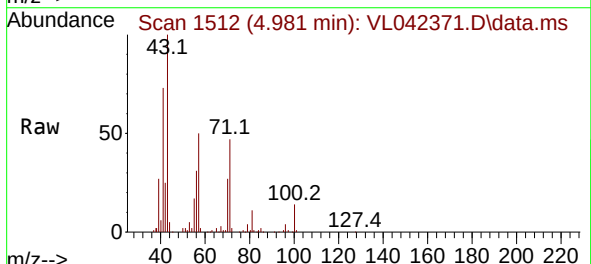
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

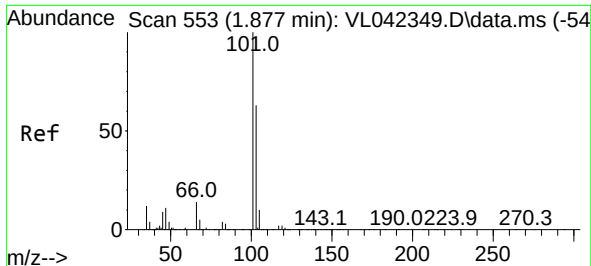
Tgt Ion: 41 Resp: 95611
Ion Ratio Lower Upper
41 100
42 77.3 56.2 84.4



#10
Heptane
Concen: 3.394 ppbv
RT: 4.981 min Scan# 1512
Delta R.T. 0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion: 43 Resp: 82673
Ion Ratio Lower Upper
43 100
57 50.3 39.9 59.9

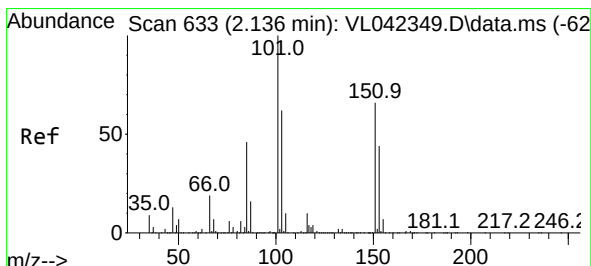
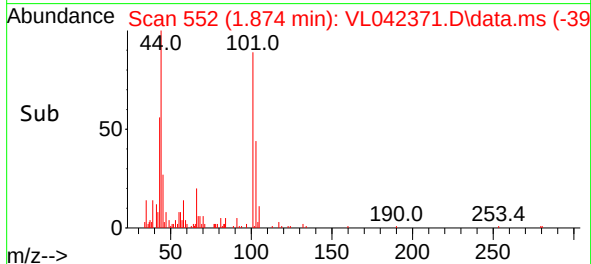
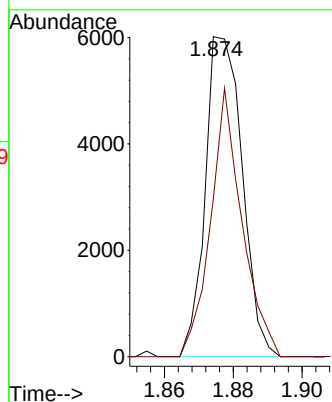
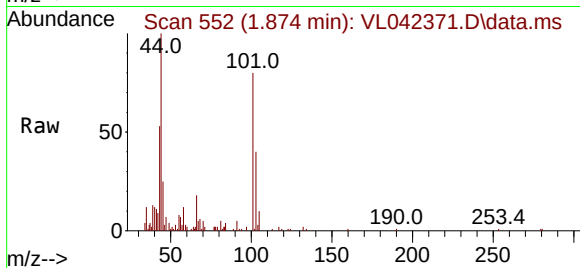




#11
 Trichlorofluoromethane
 Concen: 0.237 ppbv
 RT: 1.874 min Scan# 511
 Delta R.T. -0.003 min
 Lab File: VL042371.D
 Acq: 17 Apr 2025 22:52

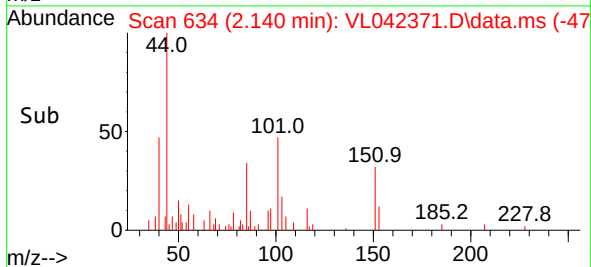
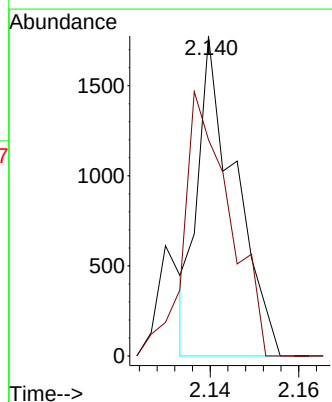
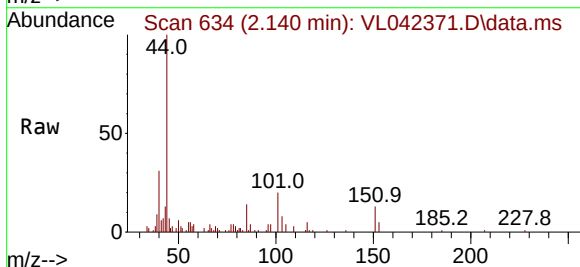
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-3-03312025

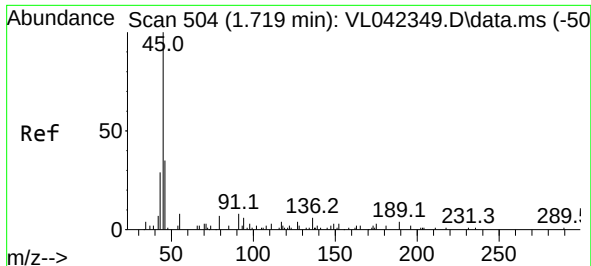
Tgt Ion:101 Resp: 4499
 Ion Ratio Lower Upper
 101 100
 103 49.2 50.1 75.1#



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.067 ppbv
 RT: 2.140 min Scan# 634
 Delta R.T. 0.003 min
 Lab File: VL042371.D
 Acq: 17 Apr 2025 22:52

Tgt Ion:101 Resp: 1043
 Ion Ratio Lower Upper
 101 100
 151 101.2 57.0 85.6#

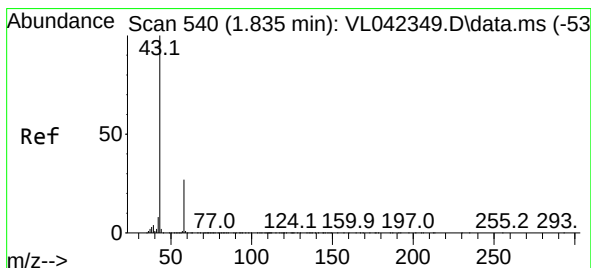
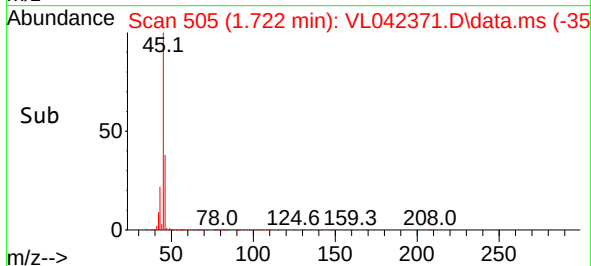
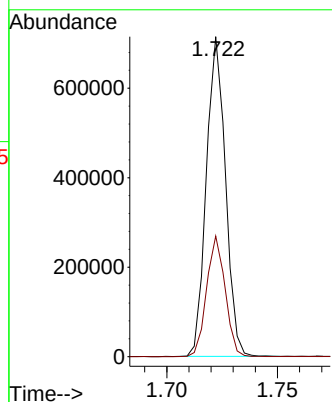
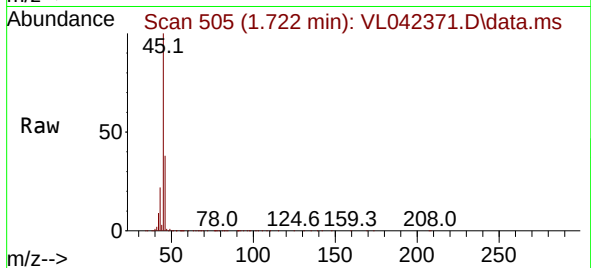




#13
Ethanol
Concen: 311.565 ppbv
RT: 1.722 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

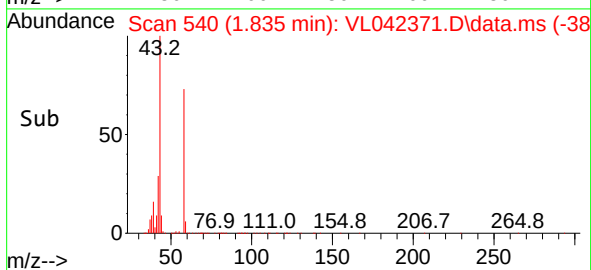
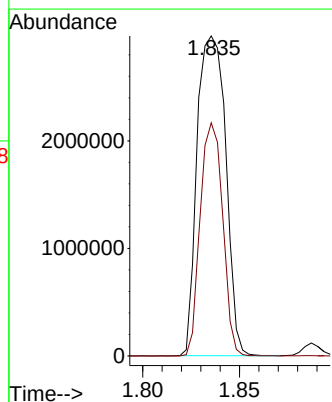
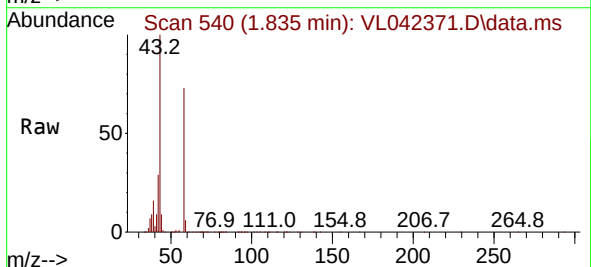
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

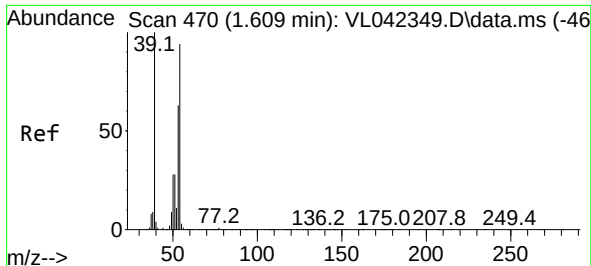
Tgt Ion: 45 Resp: 429340
Ion Ratio Lower Upper
45 100
46 36.8 21.9 87.7



#15
Acetone
Concen: 165.330 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion: 43 Resp: 3062508
Ion Ratio Lower Upper
43 100
58 57.3 22.4 33.6#

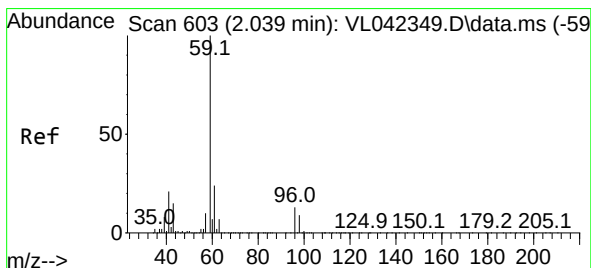
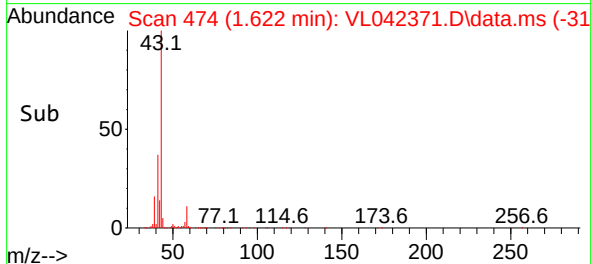
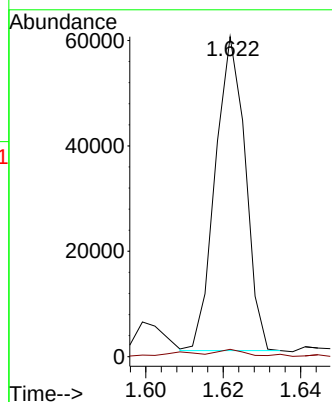
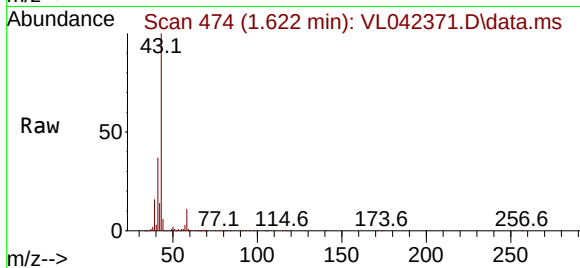




#16
1,3-Butadiene
Concen: 3.622 ppbv
RT: 1.622 min Scan# 41
Delta R.T. 0.013 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

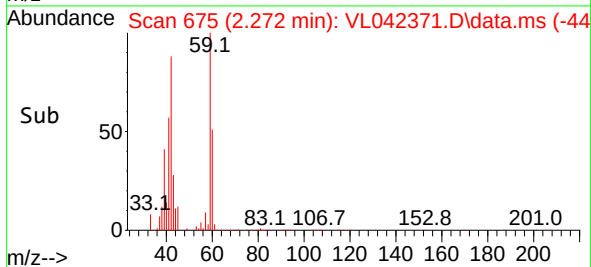
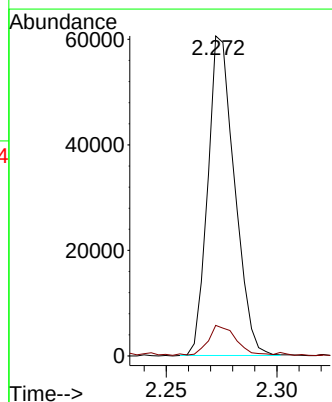
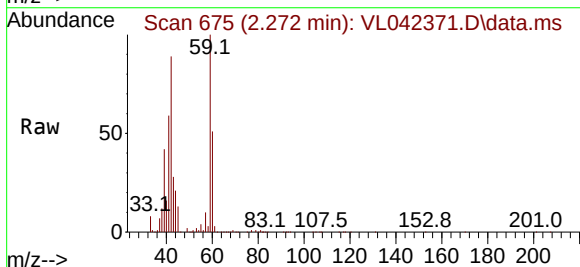
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

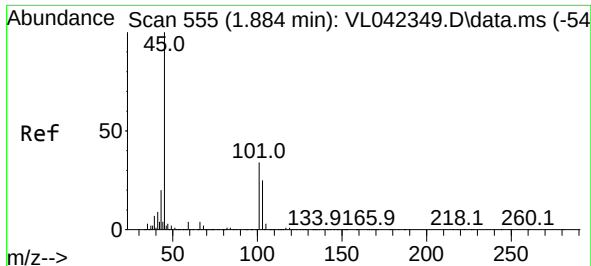
Tgt Ion: 39 Resp: 32090
Ion Ratio Lower Upper
39 100
54 6.8 64.9 97.3#



#17
tert-Butyl alcohol
Concen: 2.217 ppbv
RT: 2.272 min Scan# 675
Delta R.T. 0.233 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion: 59 Resp: 50884
Ion Ratio Lower Upper
59 100
57 11.9 8.7 13.1

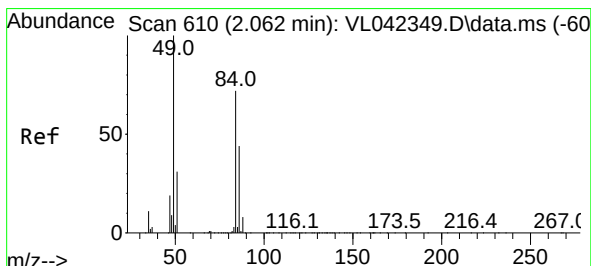
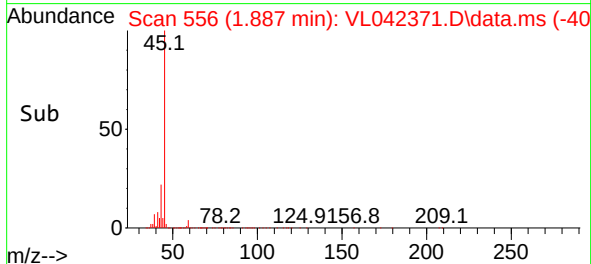
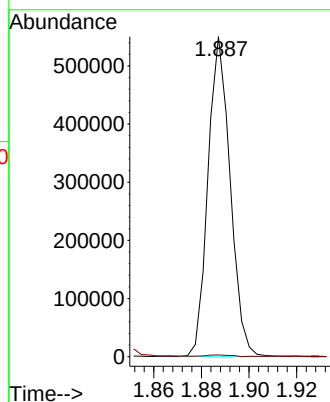
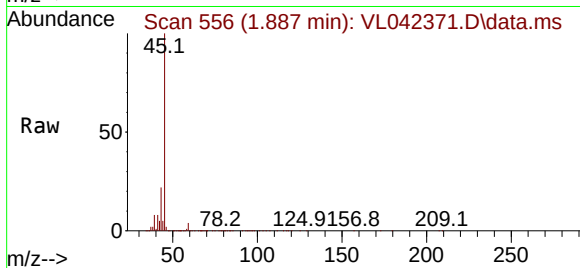




#19
Isopropyl Alcohol
Concen: 34.527 ppbv
RT: 1.887 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

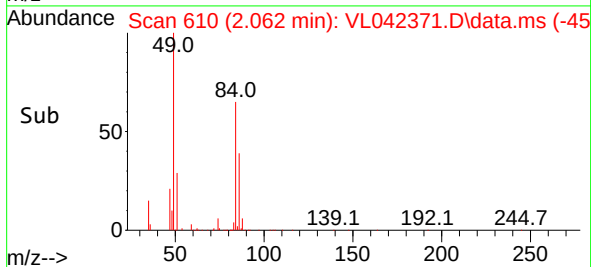
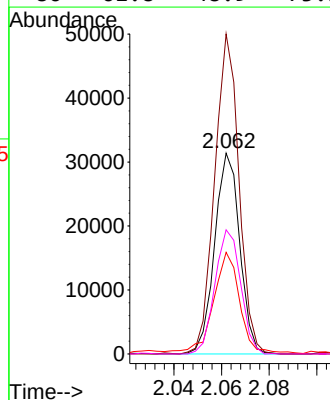
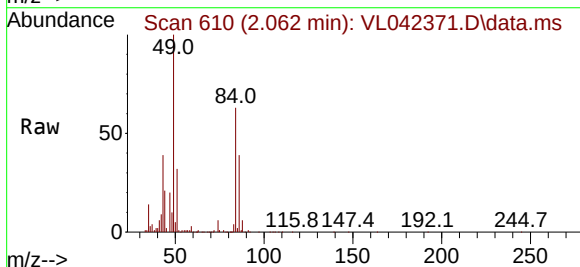
Instrument :
MSVOA_1
ClientSampleId :
IA-B2-3-03312025

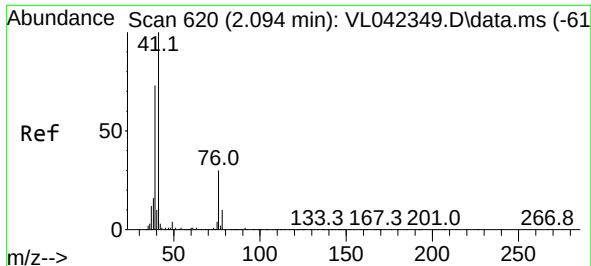
Tgt Ion: 45 Resp: 355287
Ion Ratio Lower Upper
45 100
58 0.0 34.5 51.7#



#20
Methylene Chloride
Concen: 3.166 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.000 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion: 84 Resp: 22966
Ion Ratio Lower Upper
84 100
49 159.3 111.6 167.4
51 49.6 35.1 52.7
86 61.8 48.9 73.3

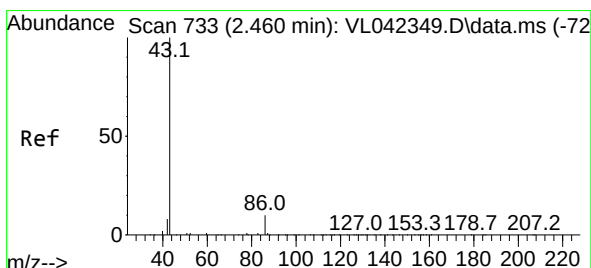
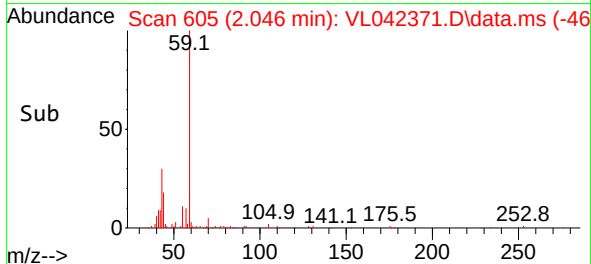
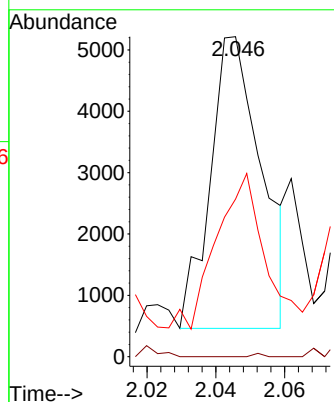
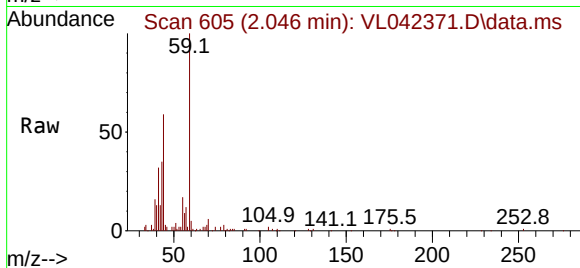




#21
 Allyl Chloride
 Concen: 0.385 ppbv
 RT: 2.046 min Scan# 605
 Delta R.T. -0.049 min
 Lab File: VL042371.D
 Acq: 17 Apr 2025 22:52

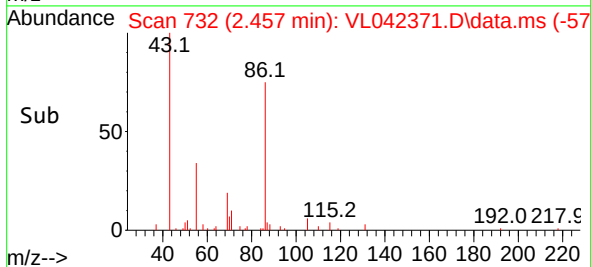
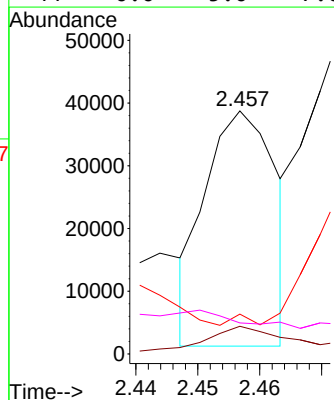
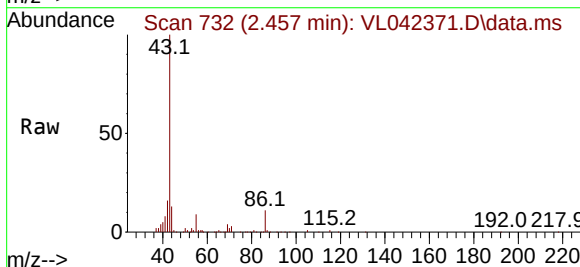
Instrument :
 MSVOA_1
 ClientSampleId :
 IA-B2-3-03312025

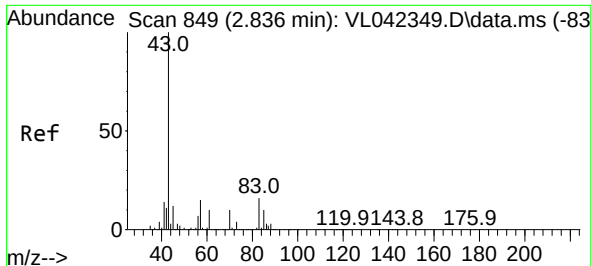
Tgt Ion: 41	Resp: 4920
Ion Ratio	Lower Upper
41	100
76	36.0 24.8 37.2
39	0.0 60.6 90.8#



#23
 Vinyl Acetate
 Concen: 3.959 ppbv
 RT: 2.457 min Scan# 732
 Delta R.T. -0.003 min
 Lab File: VL042371.D
 Acq: 17 Apr 2025 22:52

Tgt Ion: 43	Resp: 29683
Ion Ratio	Lower Upper
43	100
86	14.5 6.5 9.7#
42	0.0 7.8 11.8#
44	0.0 5.0 7.6#

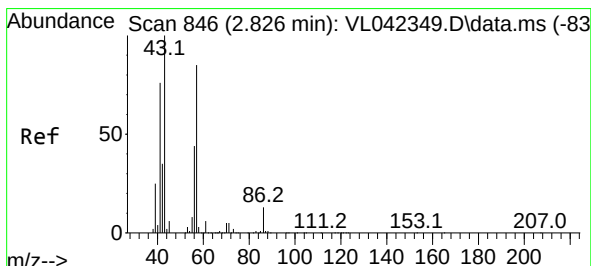
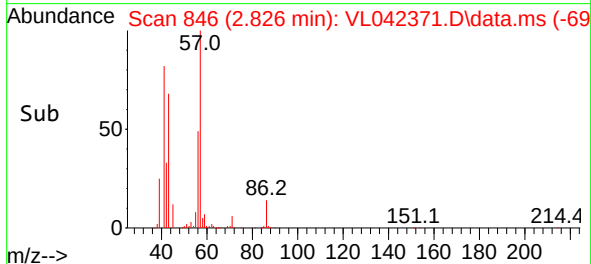
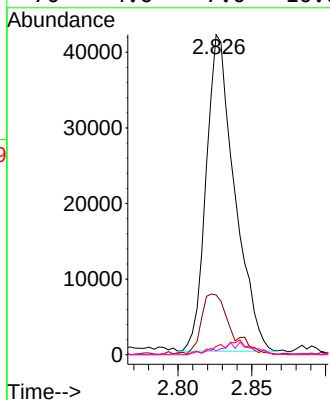
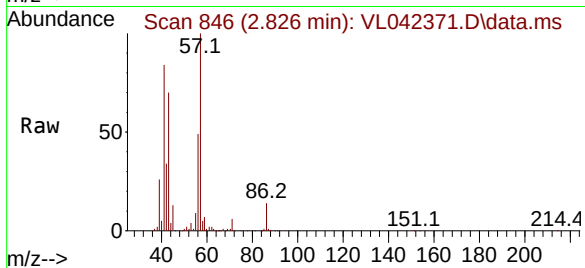




#25
Ethyl Acetate
Concen: 1.228 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.010 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

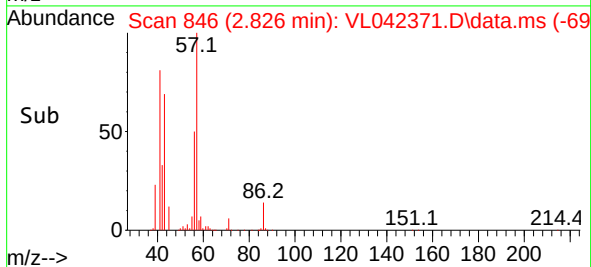
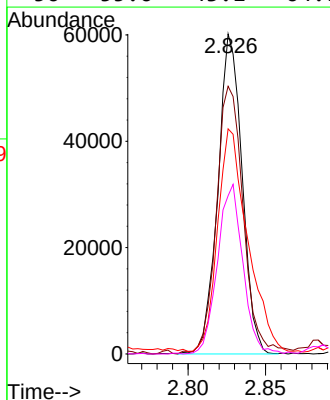
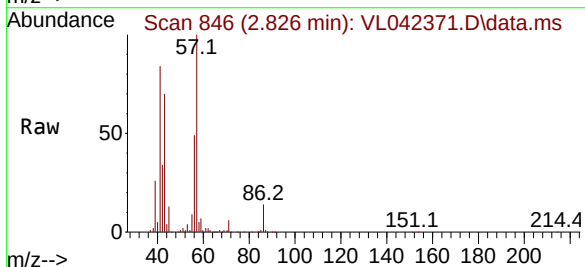
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

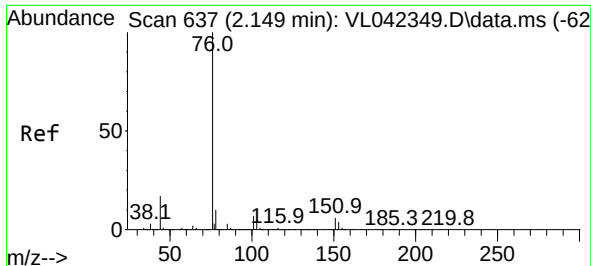
Tgt Ion: 43	Resp: 56098
Ion Ratio	Lower Upper
43 100	
45 19.3	8.3 12.5#
61 5.3	7.3 10.9#
70 4.6	7.0 10.6#



#26
Hexane
Concen: 3.529 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.000 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion: 57	Resp: 65232
Ion Ratio	Lower Upper
57 100	
41 92.4	77.9 116.9
43 85.1	208.4 312.6#
56 55.6	43.1 64.7

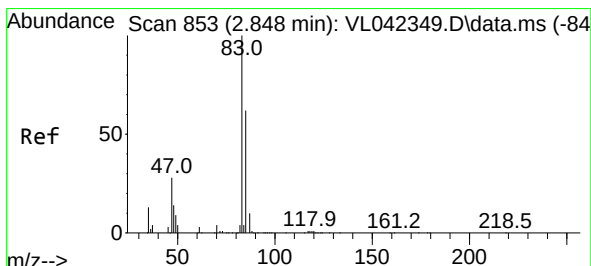
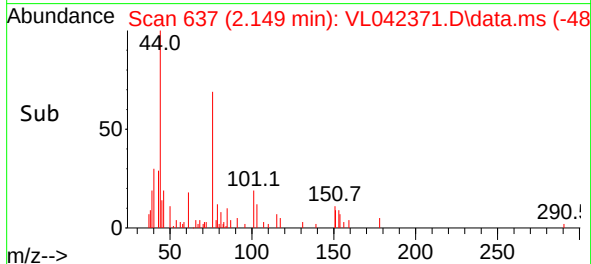
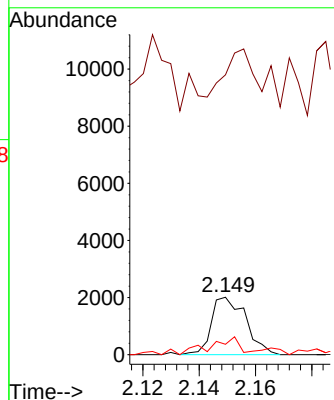
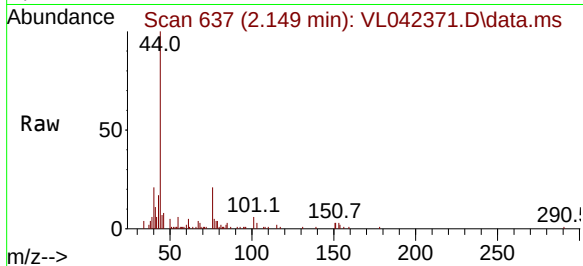




#27
Carbon Disulfide
Concen: 0.086 ppbv
RT: 2.149 min Scan# 611
Delta R.T. 0.000 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

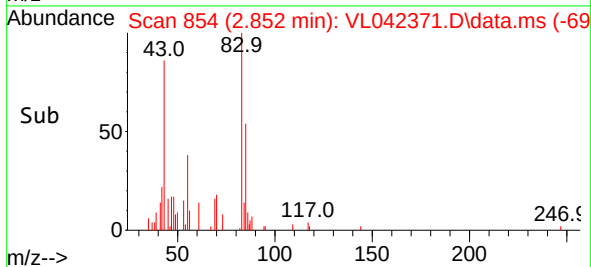
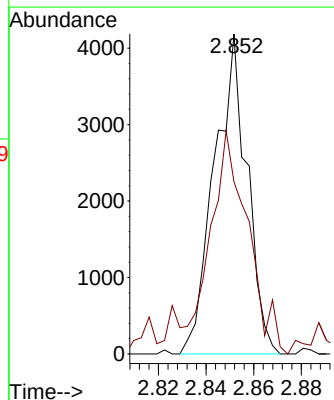
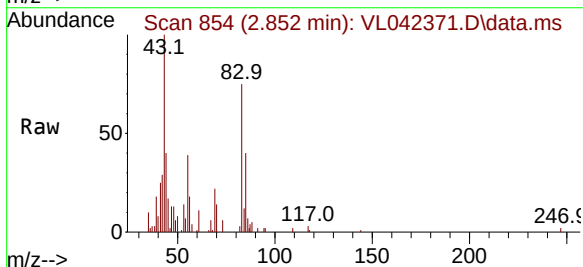
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

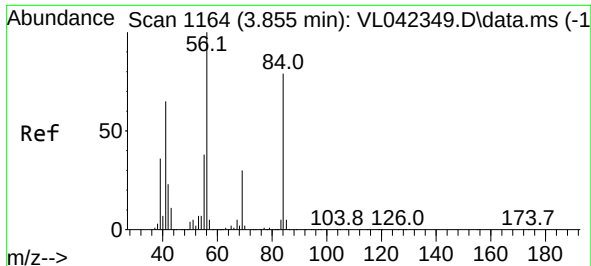
Tgt Ion: 76 Resp: 1709
Ion Ratio Lower Upper
76 100
44 0.0 15.5 23.3#
78 44.6 9.3 13.9#



#29
Chloroform
Concen: 0.153 ppbv
RT: 2.852 min Scan# 854
Delta R.T. 0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion: 83 Resp: 3991
Ion Ratio Lower Upper
83 100
85 51.6 50.0 75.0

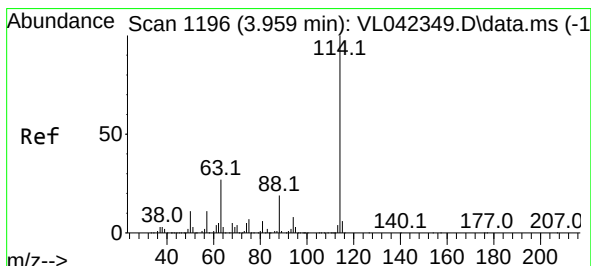
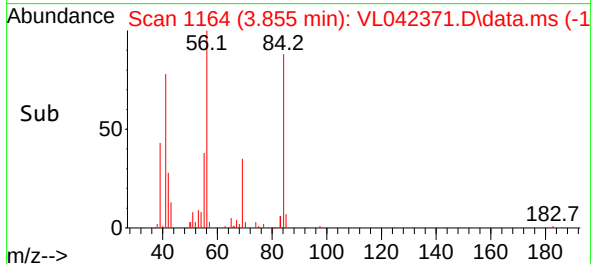
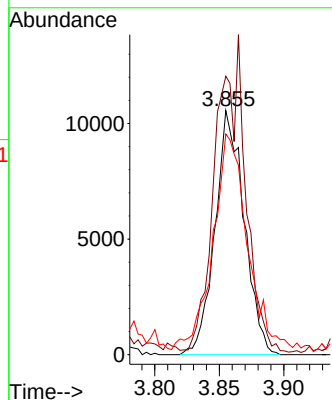
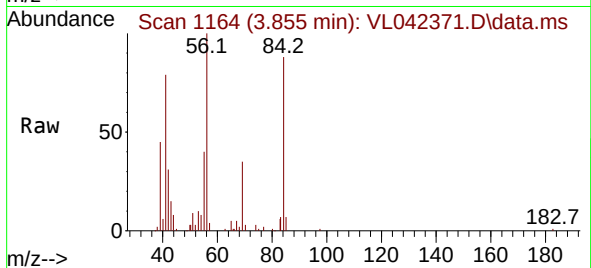




#30
Cyclohexane
Concen: 1.109 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. -0.000 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

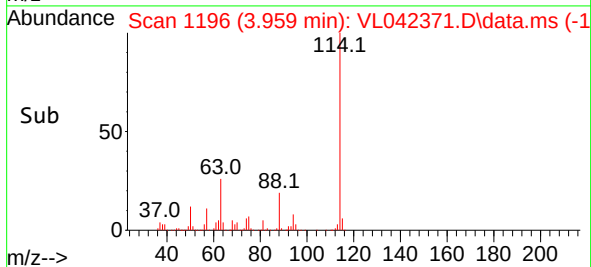
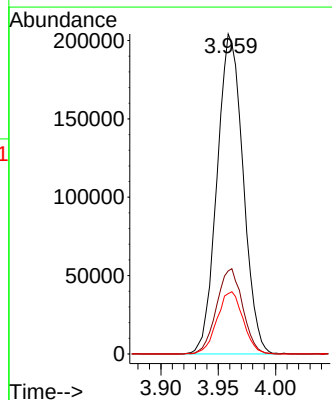
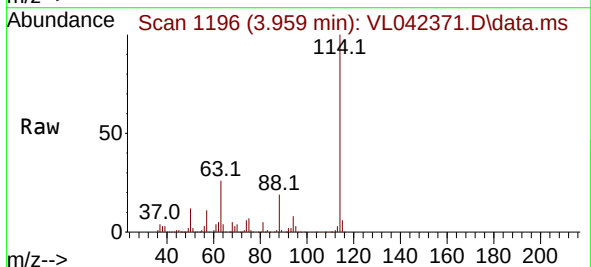
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

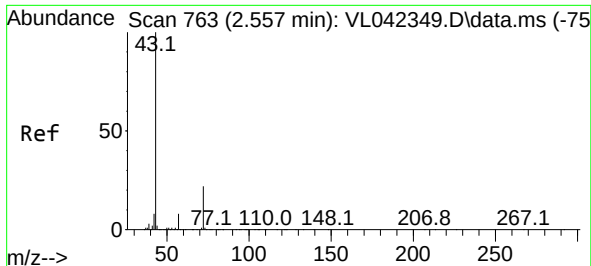
Tgt Ion: 84 Resp: 16571
Ion Ratio Lower Upper
84 100
56 136.5 101.0 151.4
41 109.0 67.4 101.0#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. -0.000 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion: 114 Resp: 322735
Ion Ratio Lower Upper
114 100
63 26.7 21.8 32.6
88 19.4 15.5 23.3

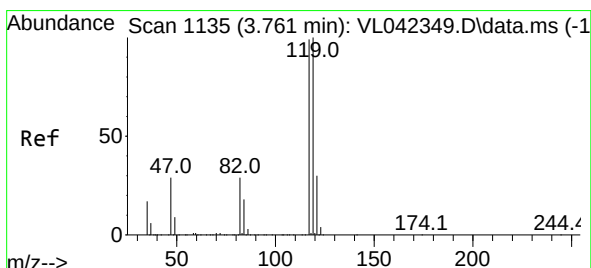
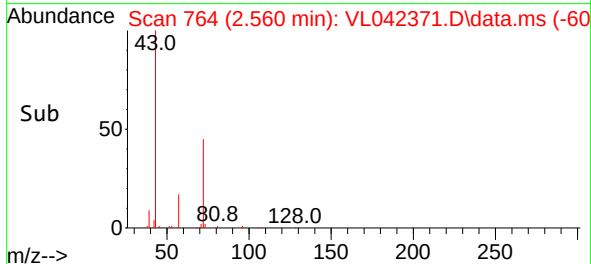
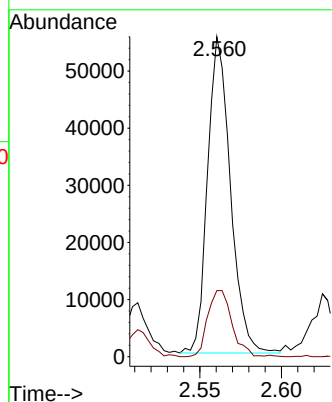
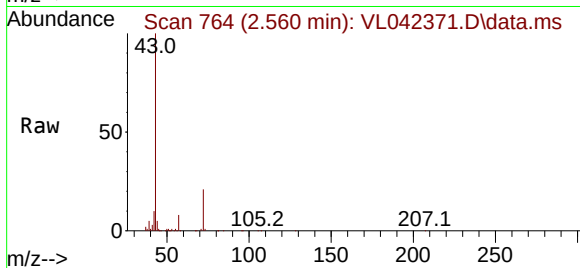




#34
2-Butanone
Concen: 2.117 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

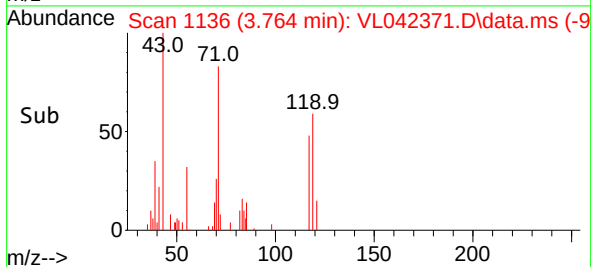
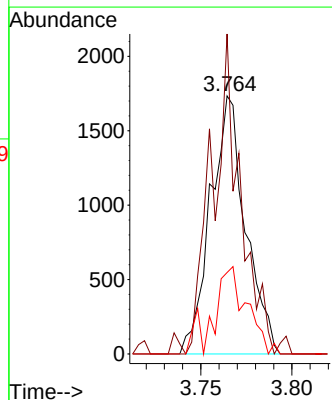
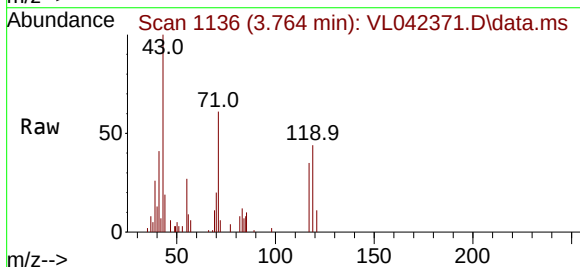
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

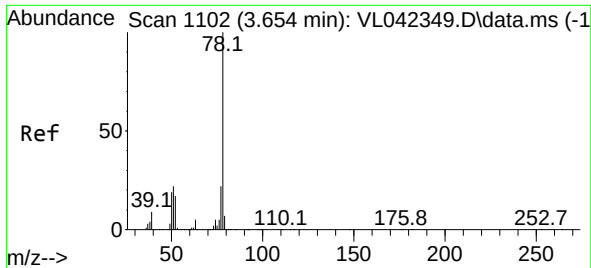
Tgt Ion: 43 Resp: 54027
Ion Ratio Lower Upper
43 100
72 22.4 18.2 27.2



#35
Carbon Tetrachloride
Concen: 0.079 ppbv
RT: 3.764 min Scan# 1136
Delta R.T. 0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion: 117 Resp: 2319
Ion Ratio Lower Upper
117 100
119 120.2 80.5 120.7
121 31.5 24.2 36.2

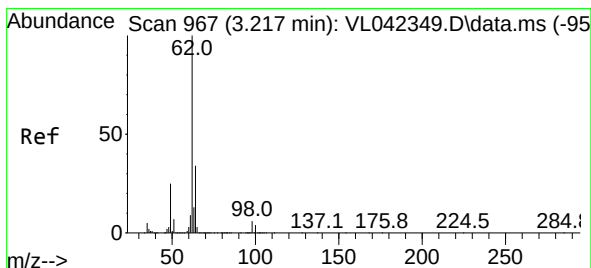
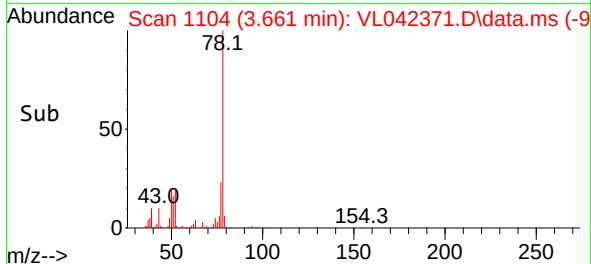
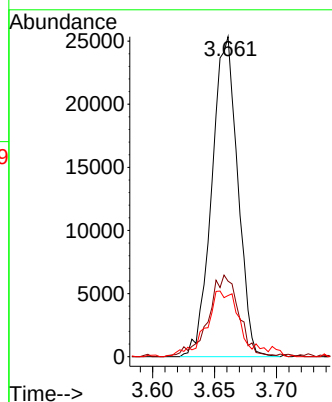
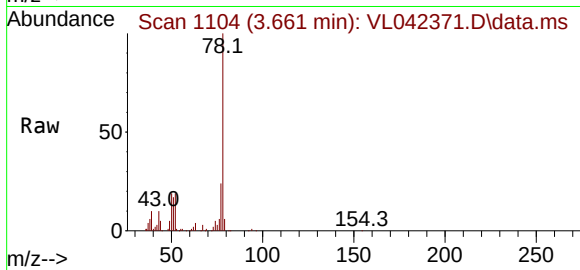




#36
Benzene
Concen: 1.060 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. 0.006 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

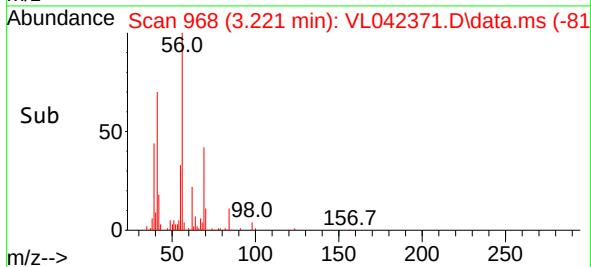
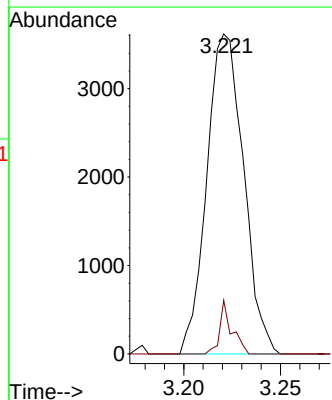
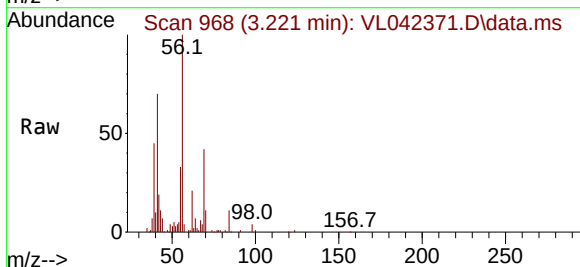
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

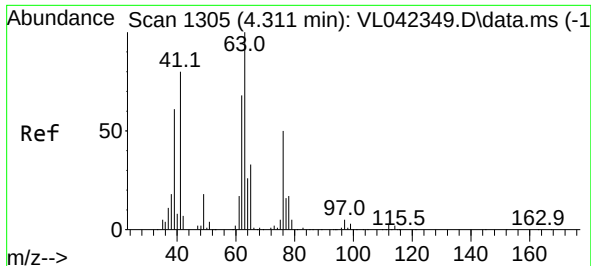
Tgt Ion: 78 Resp: 36905
Ion Ratio Lower Upper
78 100
77 22.8 17.4 26.0
50 17.0 15.5 23.3



#37
1,2-Dichloroethane
Concen: 0.229 ppbv
RT: 3.221 min Scan# 968
Delta R.T. 0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion: 62 Resp: 4782
Ion Ratio Lower Upper
62 100
98 5.4 5.1 7.7





#39

1,2-Dichloropropane

Concen: 6.617 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. -0.350 min

Lab File: VL042371.D

Acq: 17 Apr 2025 22:52

Instrument :

MSVOA_L

ClientSampleId :

IA-B2-3-03312025

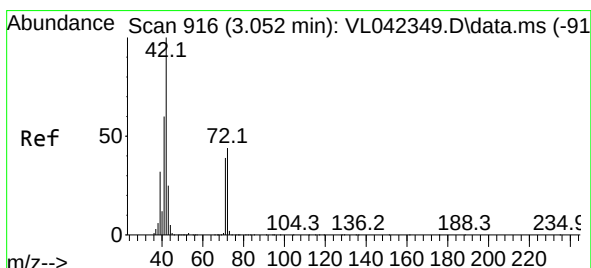
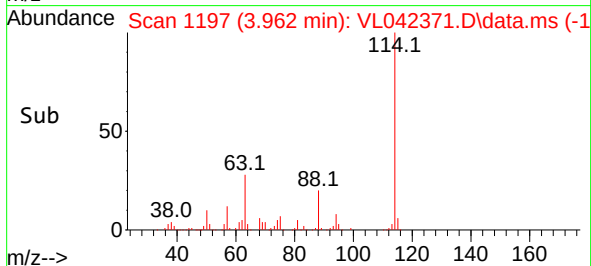
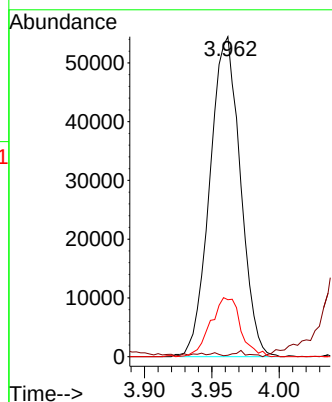
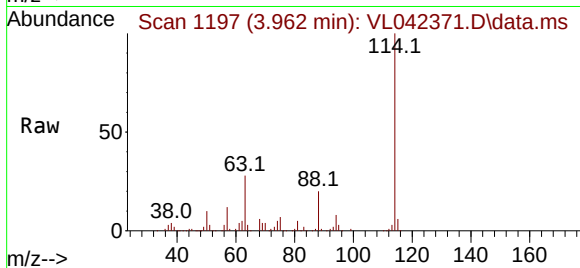
Tgt Ion: 63 Resp: 85836

Ion Ratio Lower Upper

63 100

41 0.0 64.2 96.2#

62 17.8 54.3 81.5#



#41

Tetrahydrofuran

Concen: 0.340 ppbv

RT: 3.065 min Scan# 920

Delta R.T. 0.013 min

Lab File: VL042371.D

Acq: 17 Apr 2025 22:52

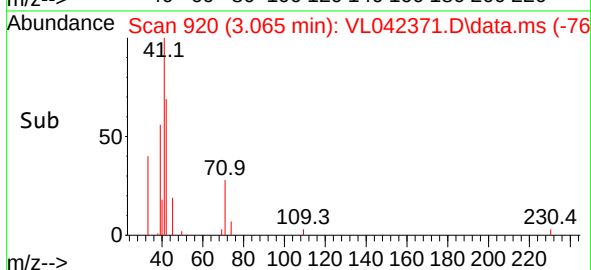
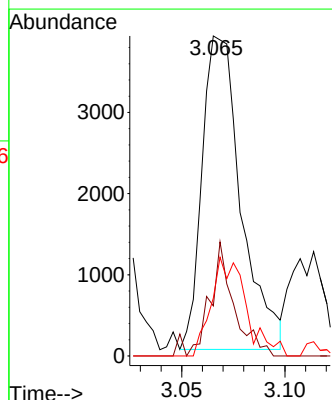
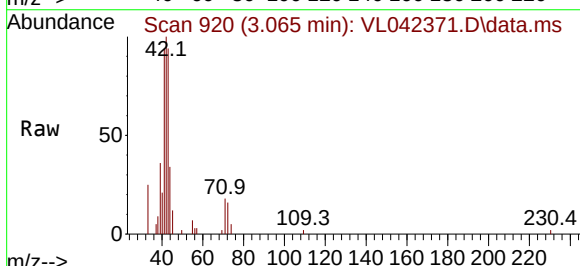
Tgt Ion: 42 Resp: 5065

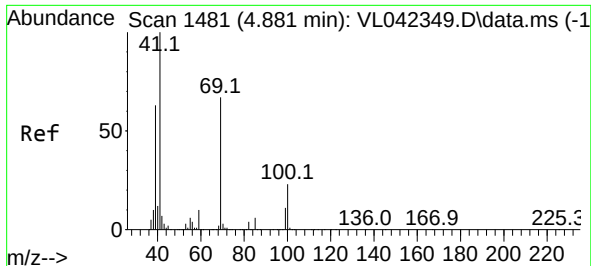
Ion Ratio Lower Upper

42 100

72 23.0 32.3 48.5#

71 29.8 31.4 47.2#

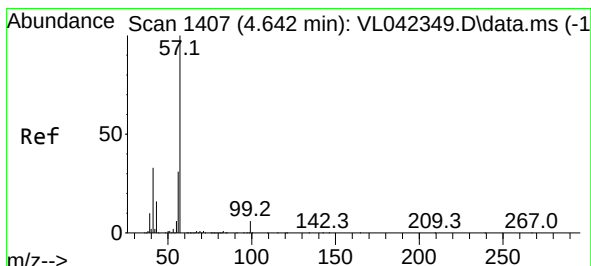
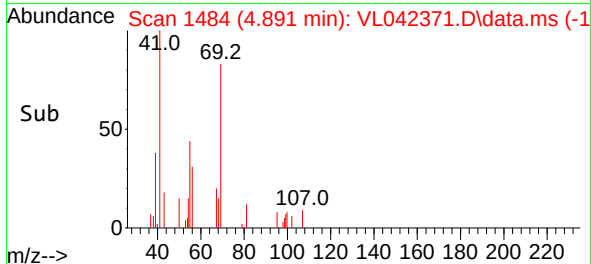
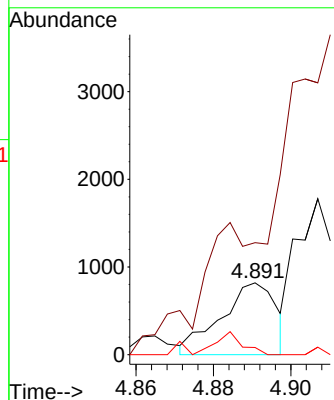
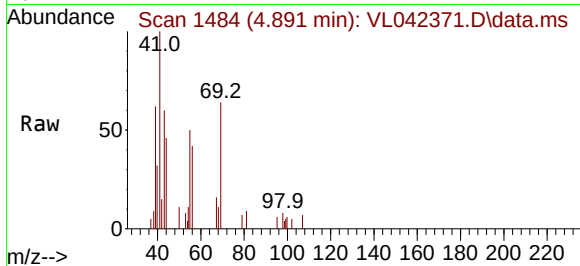




#43
Methyl Methacrylate
Concen: 0.051 ppbv
RT: 4.891 min Scan# 1484
Delta R.T. 0.010 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

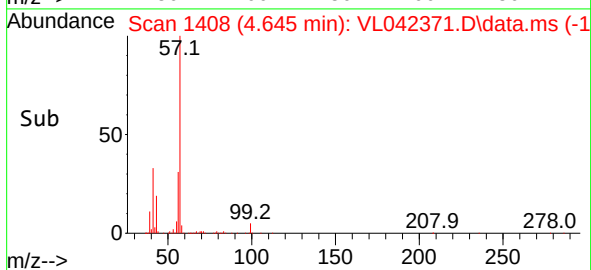
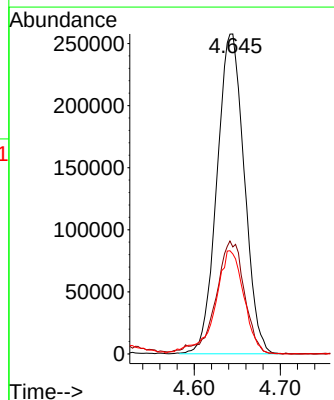
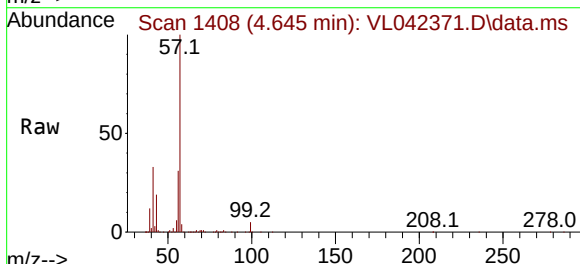
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

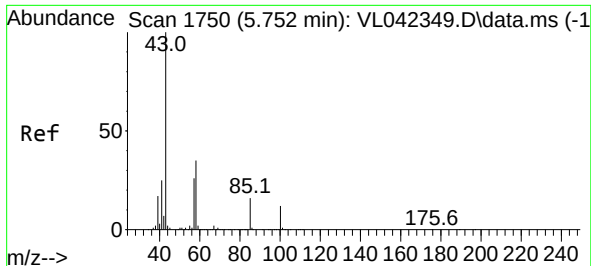
Tgt Ion: 69 Resp: 807
Ion Ratio Lower Upper
69 100
41 0.0 118.6 177.8#
100 0.0 28.2 42.2#



#44
2,2,4-Trimethylpentane
Concen: 9.437 ppbv
RT: 4.645 min Scan# 1408
Delta R.T. 0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion: 57 Resp: 567345
Ion Ratio Lower Upper
57 100
41 37.3 27.2 40.8
56 34.4 25.7 38.5

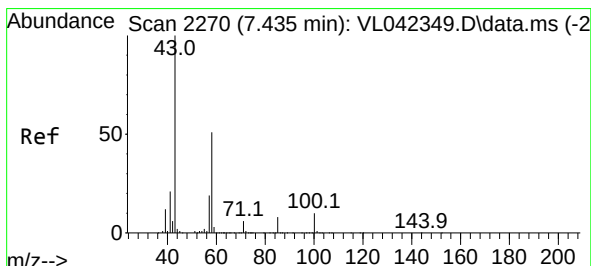
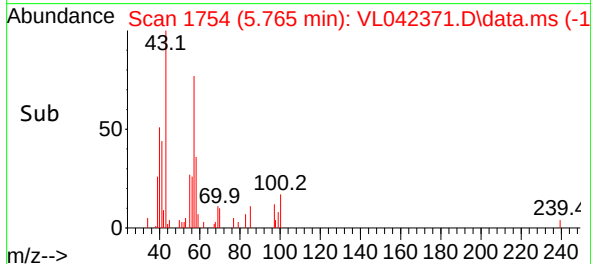
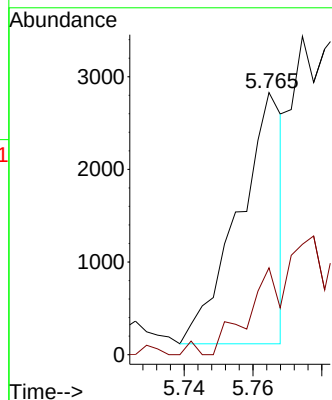
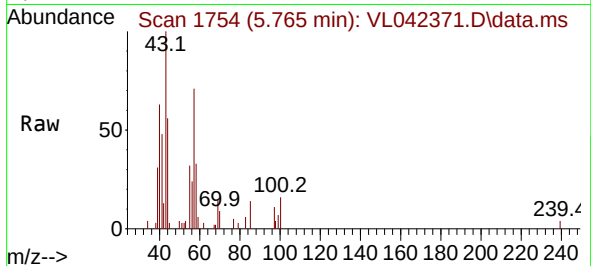




#50
 4-Methyl-2-Pentanone
 Concen: 0.057 ppbv
 RT: 5.765 min Scan# 11
 Delta R.T. 0.013 min
 Lab File: VL042371.D
 Acq: 17 Apr 2025 22:52

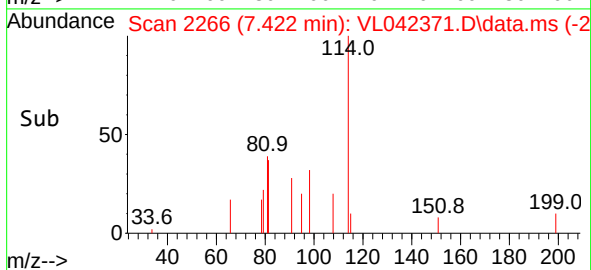
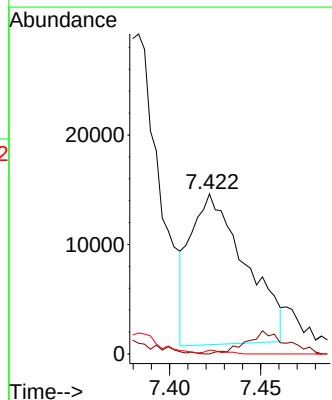
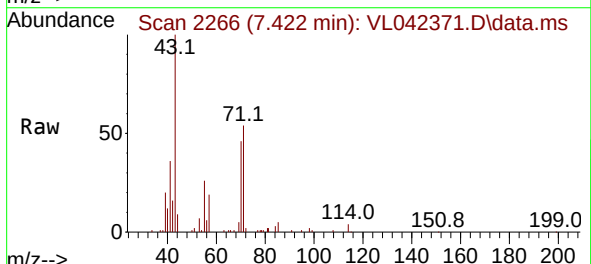
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-3-03312025

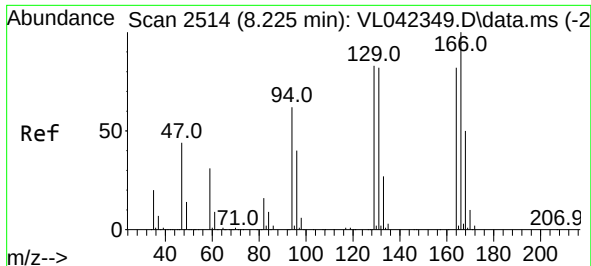
Tgt Ion: 43 Resp: 2416
 Ion Ratio Lower Upper
 43 100
 58 0.0 28.6 43.0#



#51
 2-Hexanone
 Concen: 0.754 ppbv
 RT: 7.422 min Scan# 2266
 Delta R.T. -0.013 min
 Lab File: VL042371.D
 Acq: 17 Apr 2025 22:52

Tgt Ion: 43 Resp: 28690
 Ion Ratio Lower Upper
 43 100
 58 0.0 40.2 60.4#
 98 0.0 0.1 0.1#

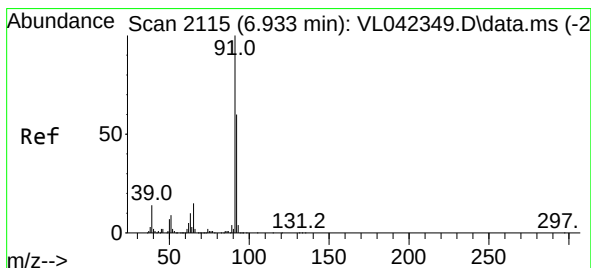
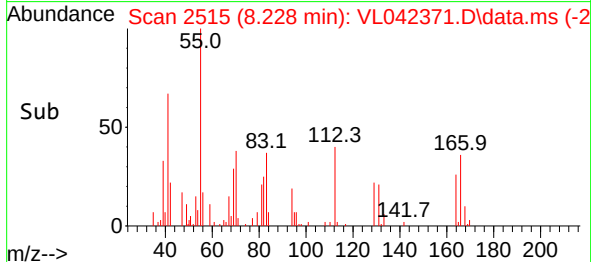
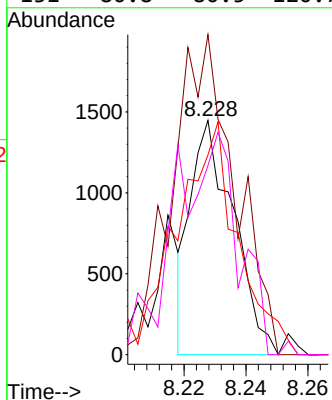
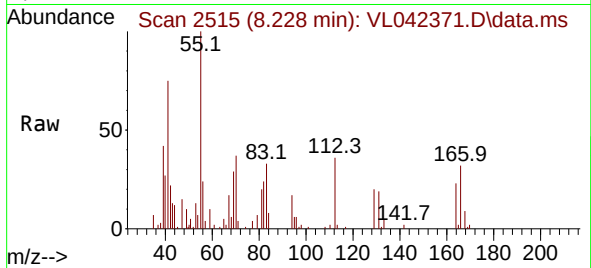




#52
Tetrachloroethene
Concen: 0.103 ppbv
RT: 8.228 min Scan# 2115
Delta R.T. 0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

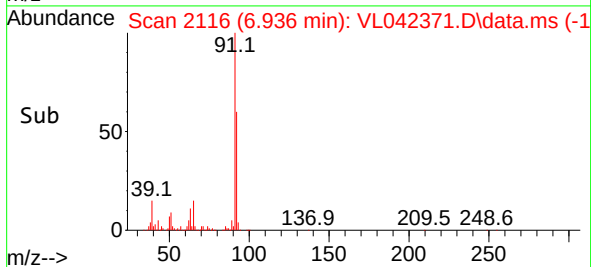
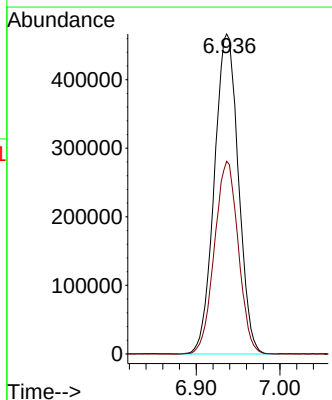
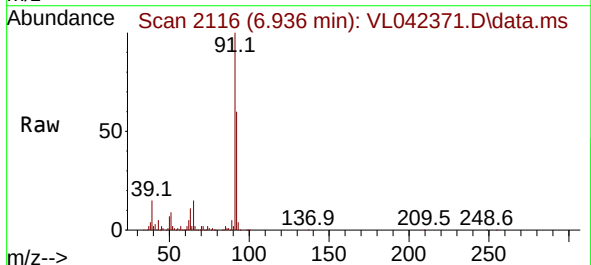
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

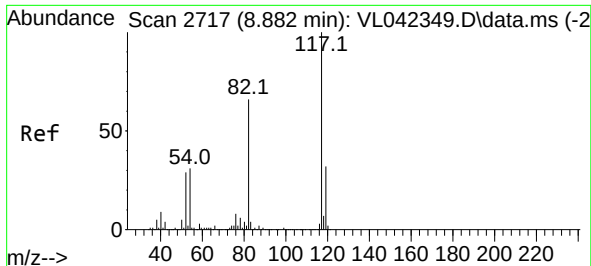
Tgt Ion:164 Resp: 1390
Ion Ratio Lower Upper
164 100
166 136.6 98.2 147.2
129 71.0 81.8 122.8#
131 80.8 80.5 120.7



#53
Toluene
Concen: 22.290 ppbv
RT: 6.936 min Scan# 2116
Delta R.T. 0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion: 91 Resp: 931135
Ion Ratio Lower Upper
91 100
92 59.7 48.2 72.4

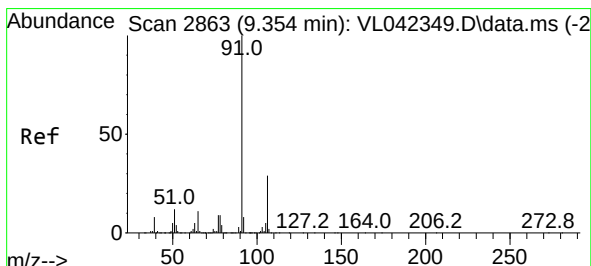
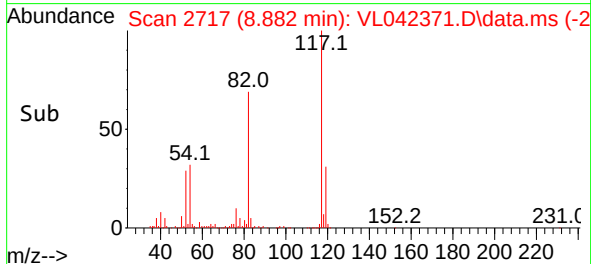
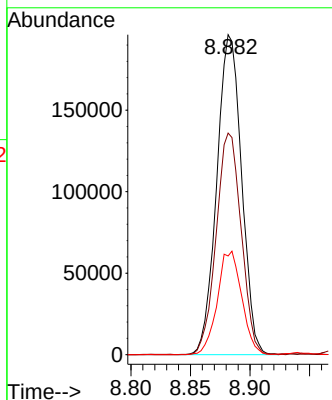
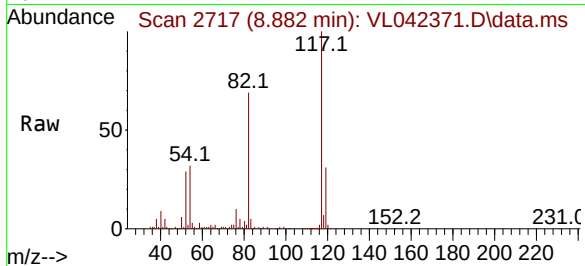




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

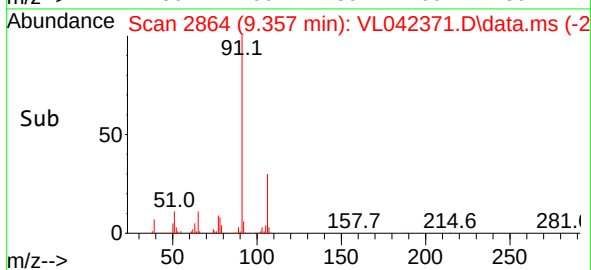
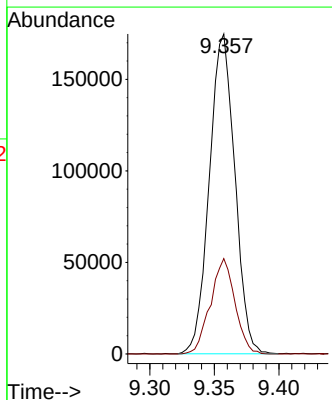
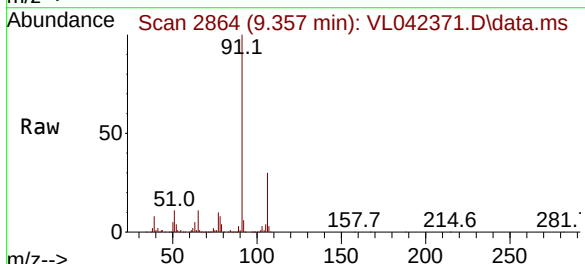
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

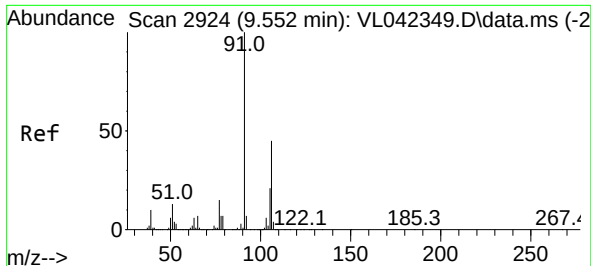
Tgt Ion:117 Resp: 284478
Ion Ratio Lower Upper
117 100
82 69.5 57.8 86.6
119 31.9 25.2 37.8



#58
Ethyl Benzene
Concen: 4.253 ppbv
RT: 9.357 min Scan# 2864
Delta R.T. 0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion: 91 Resp: 239708
Ion Ratio Lower Upper
91 100
106 29.8 23.0 34.4





#59

m/p-Xylene

Concen: 14.937 ppbv

RT: 9.532 min Scan# 2918

Delta R.T. -0.019 min

Lab File: VL042371.D

Acq: 17 Apr 2025 22:52

Instrument :

MSVOA_L

ClientSampleId :

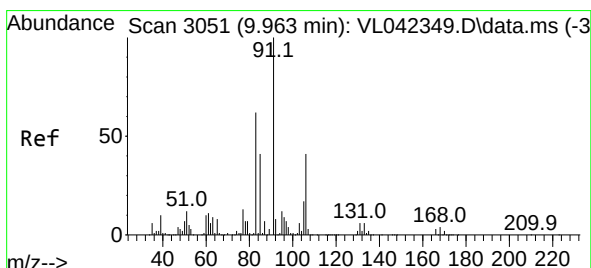
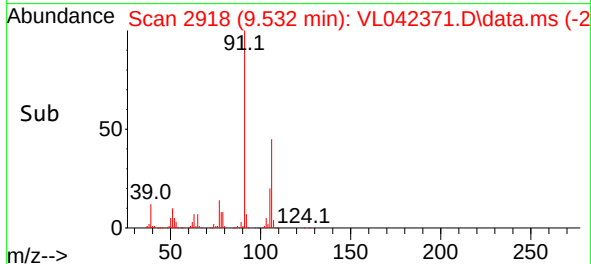
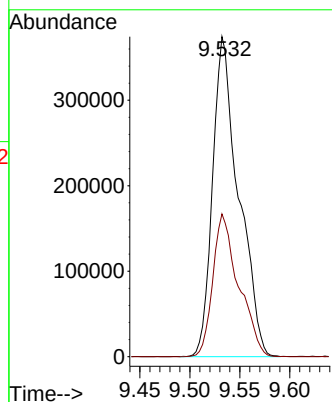
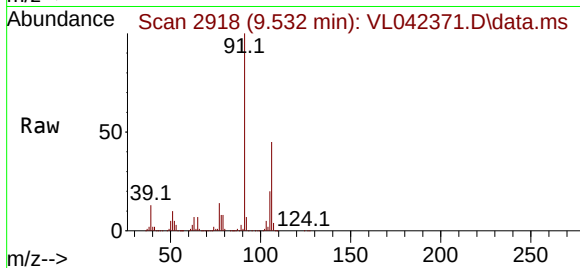
IA-B2-3-03312025

Tgt Ion: 91 Resp: 678219

Ion Ratio Lower Upper

91 100

106 44.2 35.4 53.2



#60

o-Xylene

Concen: 5.817 ppbv

RT: 9.966 min Scan# 3052

Delta R.T. 0.003 min

Lab File: VL042371.D

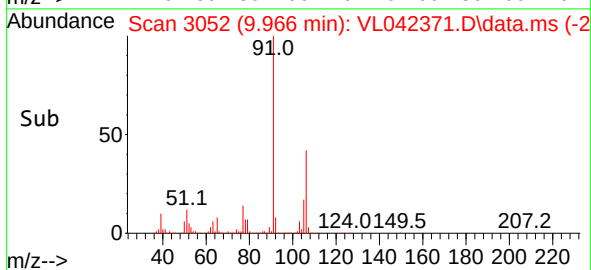
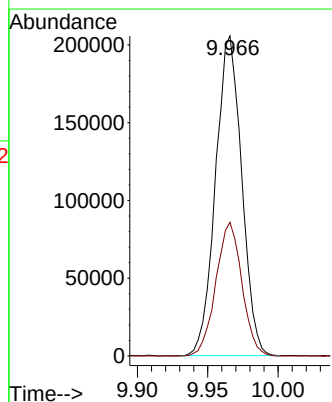
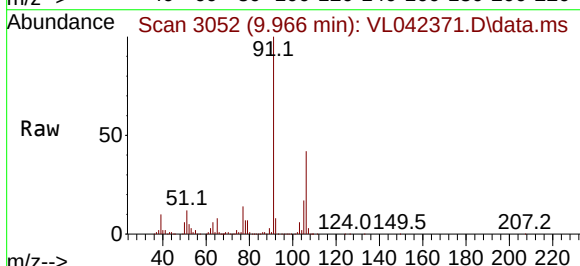
Acq: 17 Apr 2025 22:52

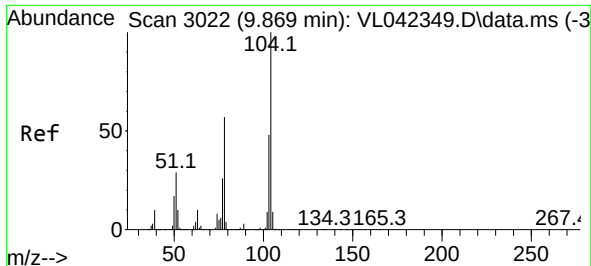
Tgt Ion: 91 Resp: 265965

Ion Ratio Lower Upper

91 100

106 41.5 21.1 63.4

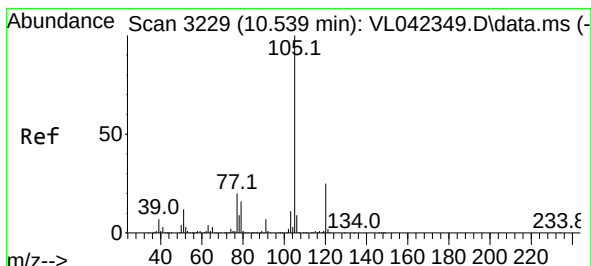
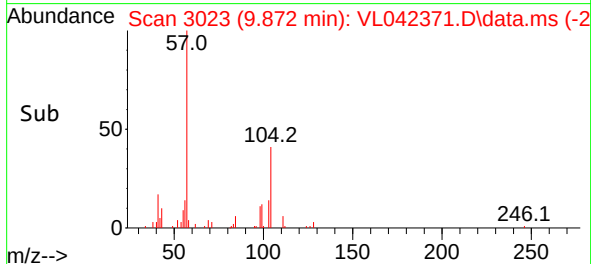
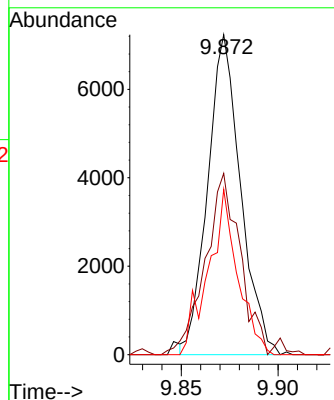
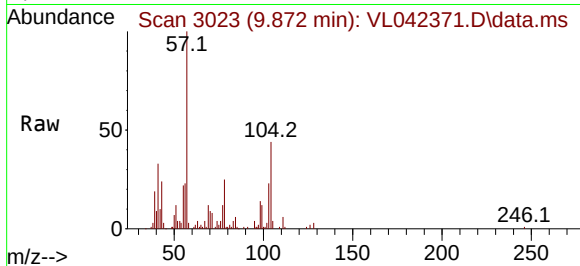




#61
Styrene
Concen: 0.392 ppbv
RT: 9.872 min Scan# 3023
Delta R.T. 0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

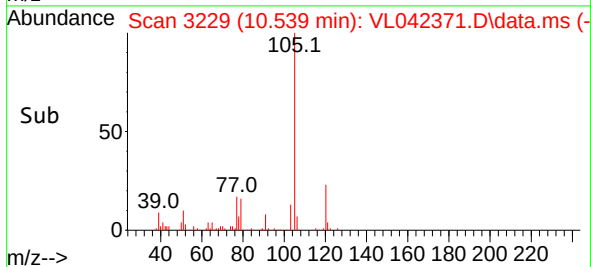
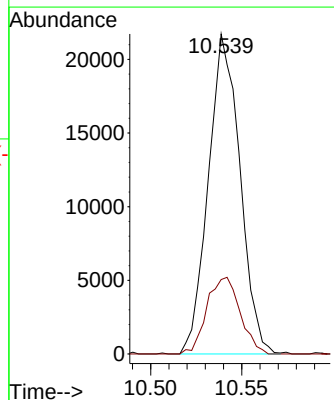
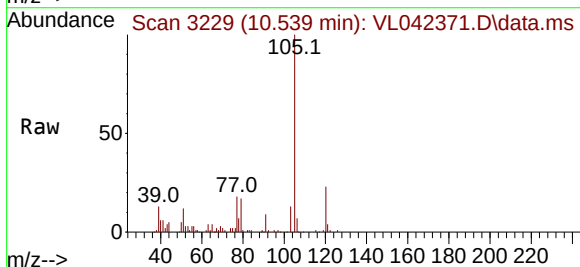
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

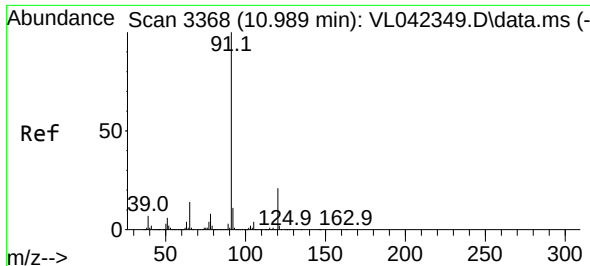
Tgt Ion:104 Resp: 8564
Ion Ratio Lower Upper
104 100
78 62.3 44.6 66.8
103 46.3 37.4 56.0



#62
Isopropylbenzene
Concen: 0.391 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. 0.000 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion:105 Resp: 26216
Ion Ratio Lower Upper
105 100
120 25.1 19.8 29.8

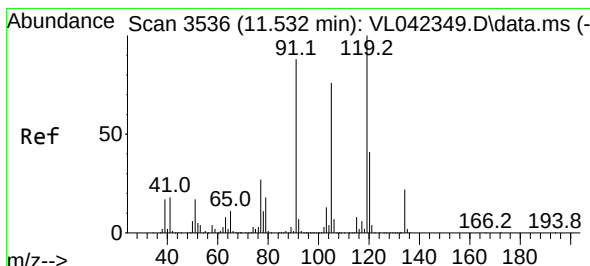
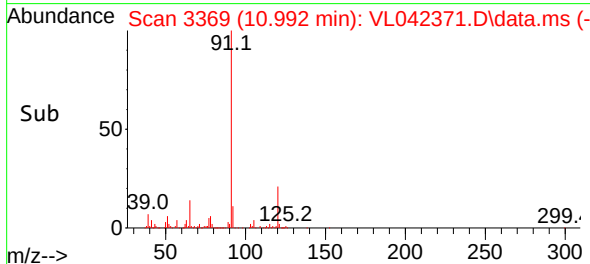
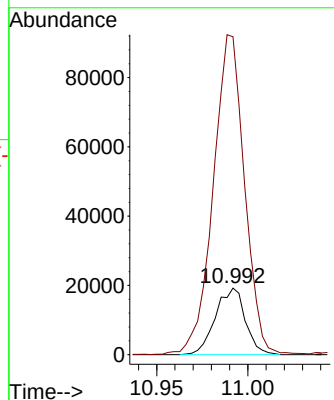
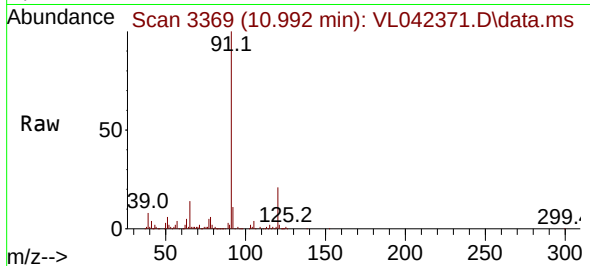




#64
n-propylbenzene
Concen: 1.296 ppbv
RT: 10.992 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

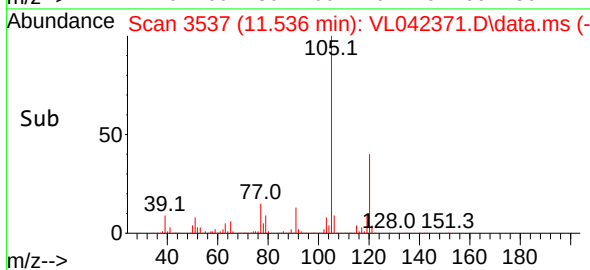
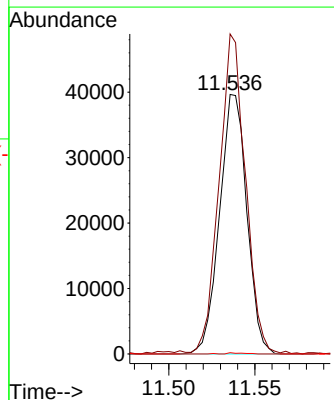
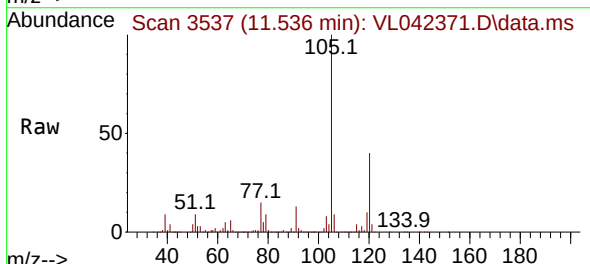
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

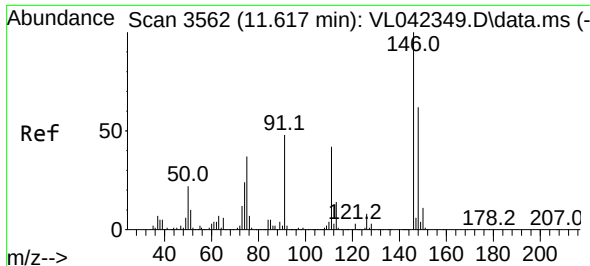
Tgt Ion:120 Resp: 21875
Ion Ratio Lower Upper
120 100
91 503.1 392.4 588.6



#65
tert-Butylbenzene
Concen: 0.708 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. 0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion:119 Resp: 43701
Ion Ratio Lower Upper
119 100
91 119.8 74.6 111.8#
134 0.0 18.8 28.2#

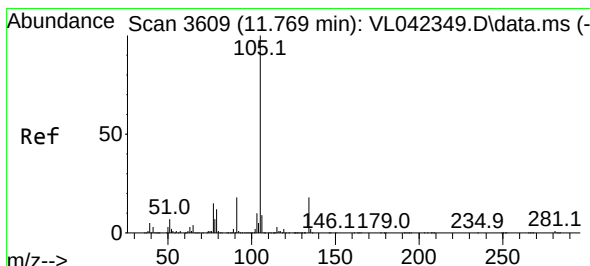
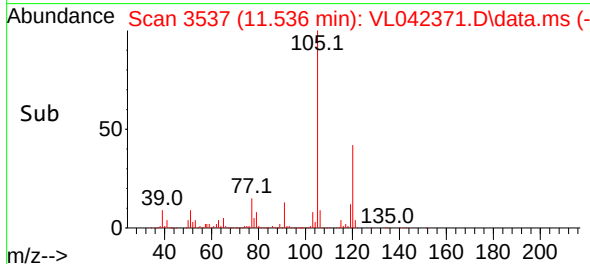
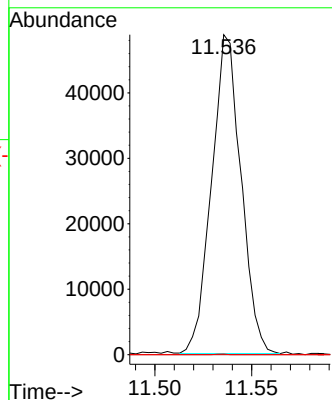
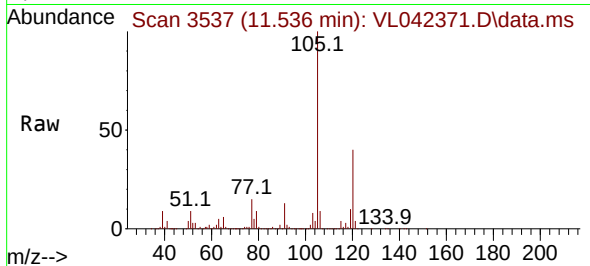




#66
Benzyl Chloride
Concen: 7.582 ppbv
RT: 11.536 min Scan# 311
Delta R.T. -0.081 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

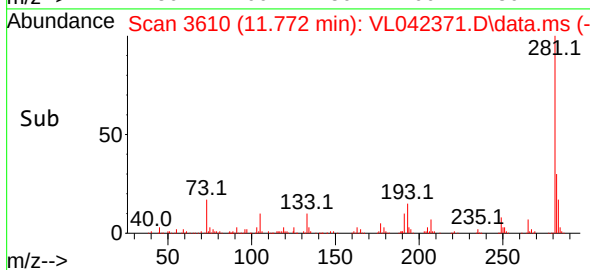
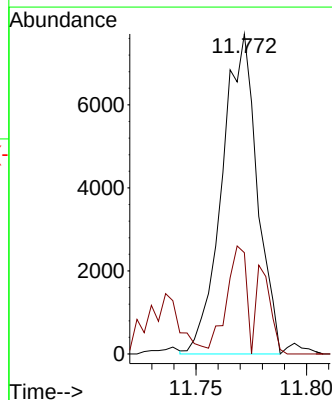
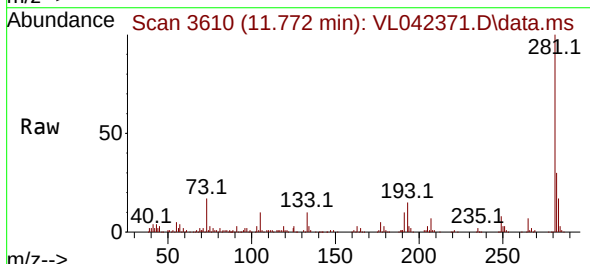
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

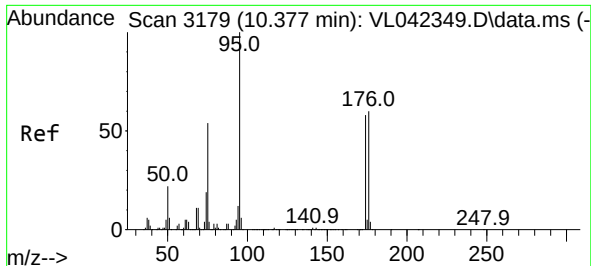
Tgt Ion: 91 Resp: 51402
Ion Ratio Lower Upper
91 100
126 0.0 11.8 17.6#
128 0.1 4.5 6.7#



#67
sec-Butylbenzene
Concen: 0.099 ppbv
RT: 11.772 min Scan# 3610
Delta R.T. 0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion: 105 Resp: 8506
Ion Ratio Lower Upper
105 100
134 30.1 14.6 21.8#

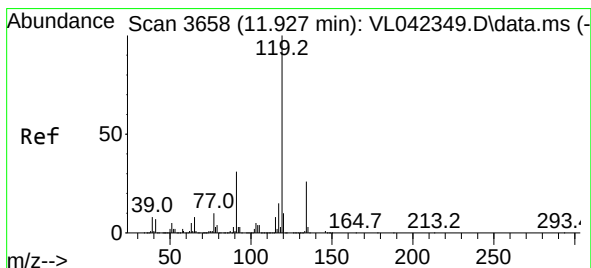
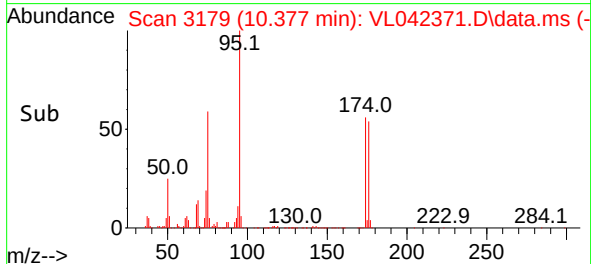
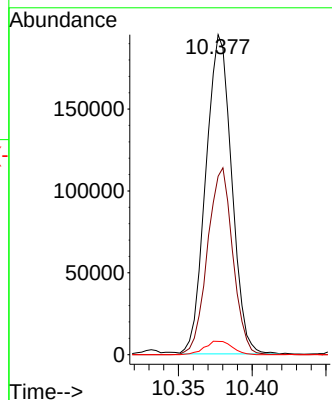
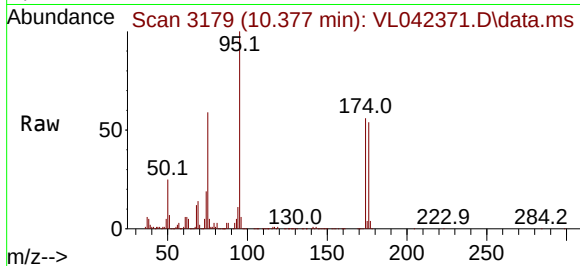




#68
1-Bromo-4-Fluorobenzene
Concen: 10.179 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.000 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

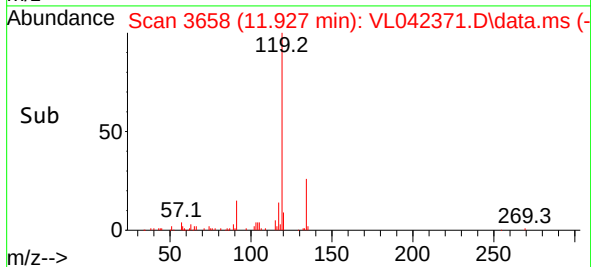
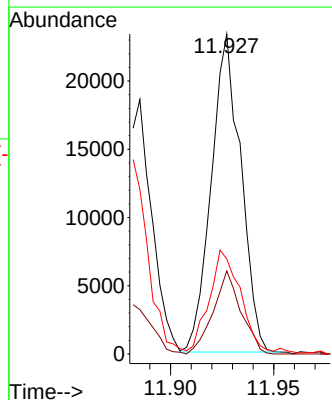
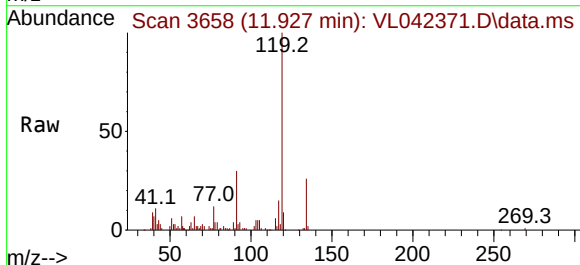
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

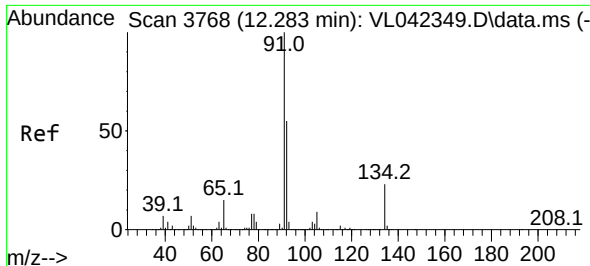
Tgt Ion: 95 Resp: 237949
Ion Ratio Lower Upper
95 100
174 57.3 48.5 72.7
175 4.5 3.7 5.5



#69
p-Isopropyltoluene
Concen: 0.311 ppbv
RT: 11.927 min Scan# 3658
Delta R.T. 0.000 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion: 119 Resp: 23201
Ion Ratio Lower Upper
119 100
134 24.5 20.0 30.0
91 36.2 24.4 36.6





#70

n-Butylbenzene

Concen: 0.309 ppbv

RT: 12.283 min Scan# 3768

Delta R.T. -0.000 min

Lab File: VL042371.D

Acq: 17 Apr 2025 22:52

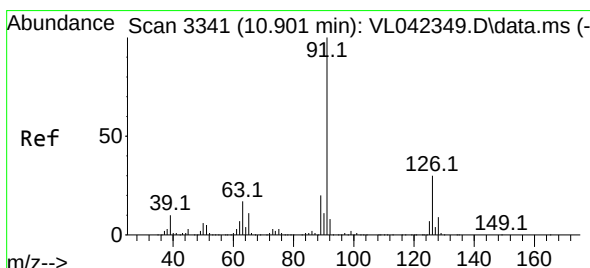
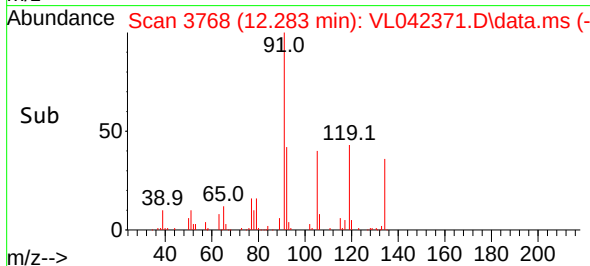
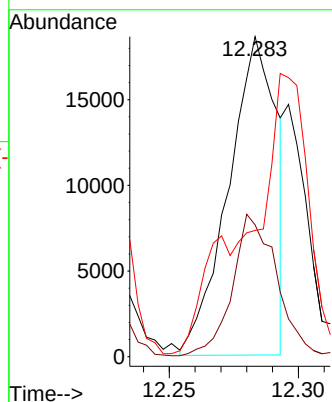
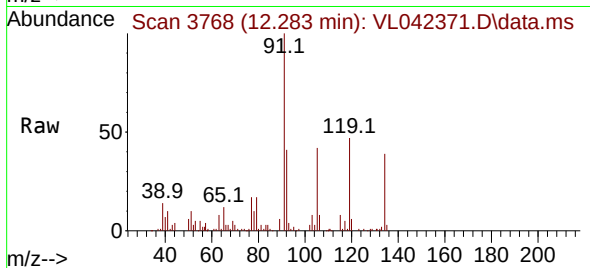
Instrument :

MSVOA_L

ClientSampleId :

IA-B2-3-03312025

Tgt Ion:	91	Resp:	24014
Ion Ratio	Lower	Upper	
91	100		
92	42.9	44.2	66.4#
134	0.0	18.2	27.4#



#71

2-Chlorotoluene

Concen: 0.843 ppbv

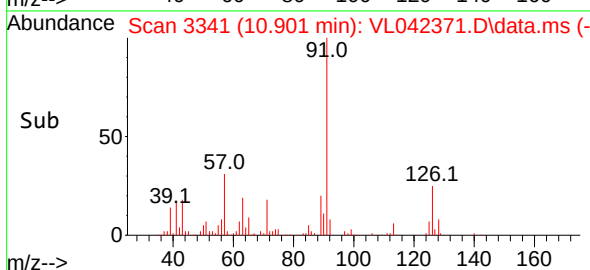
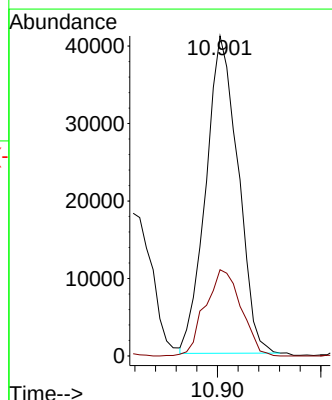
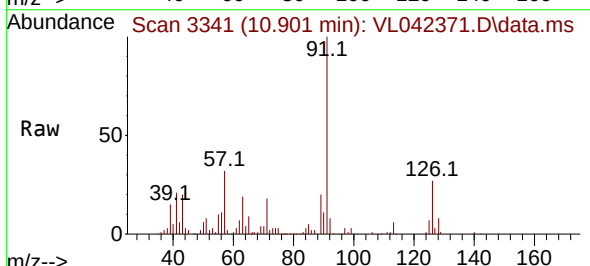
RT: 10.901 min Scan# 3341

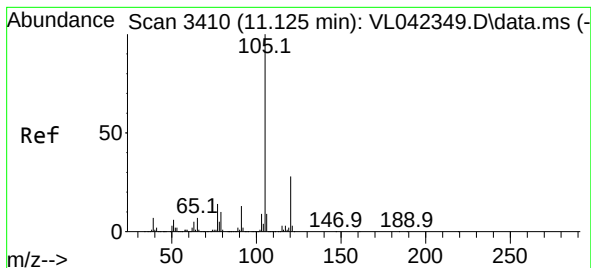
Delta R.T. 0.000 min

Lab File: VL042371.D

Acq: 17 Apr 2025 22:52

Tgt Ion:	91	Resp:	44364
Ion Ratio	Lower	Upper	
91	100		
126	30.4	11.4	45.4





#72

4-Ethyltoluene

Concen: 2.108 ppbv

RT: 11.125 min Scan# 3410

Delta R.T. -0.000 min

Lab File: VL042371.D

Acq: 17 Apr 2025 22:52

Instrument :

MSVOA_L

ClientSampleId :

IA-B2-3-03312025

Tgt Ion:105 Resp: 117824

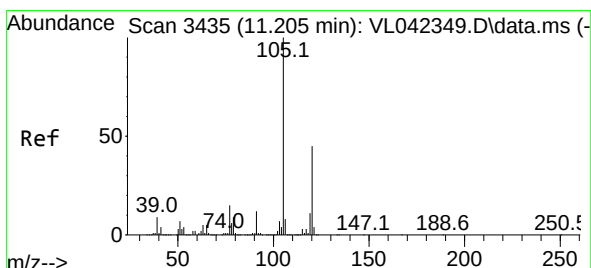
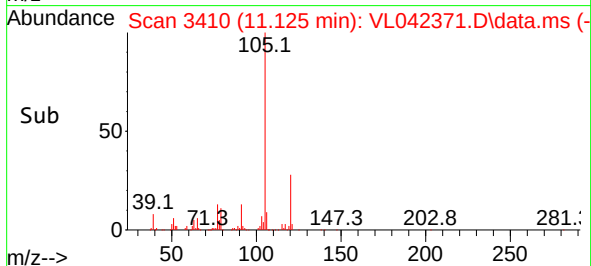
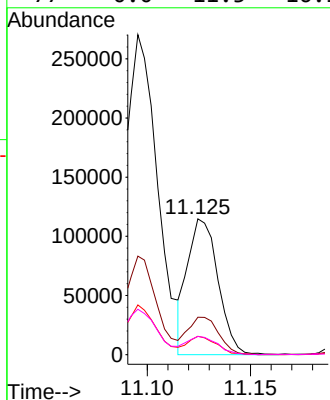
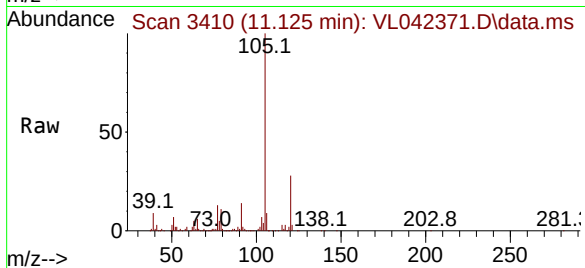
Ion Ratio Lower Upper

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: 2.599 ppbv

RT: 11.205 min Scan# 3435

Delta R.T. -0.000 min

Lab File: VL042371.D

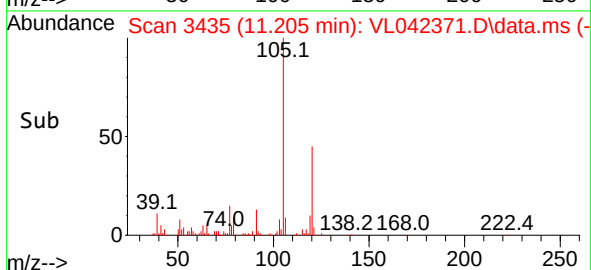
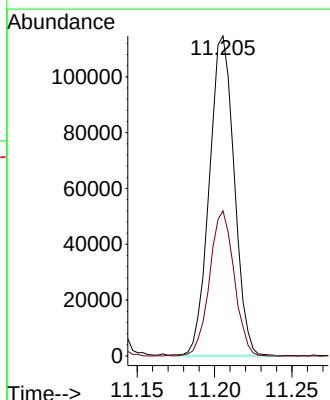
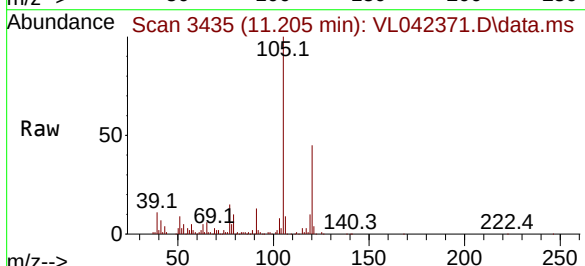
Acq: 17 Apr 2025 22:52

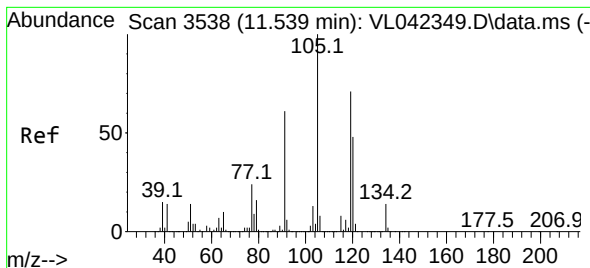
Tgt Ion:105 Resp: 128254

Ion Ratio Lower Upper

105 100

120 45.4 35.6 53.4





#74

1,2,4-Trimethylbenzene

Concen: 7.213 ppbv

RT: 11.536 min Scan# 3538

Delta R.T. -0.003 min

Lab File: VL042371.D

Acq: 17 Apr 2025 22:52

Instrument :

MSVOA_1

ClientSampleId :

IA-B2-3-03312025

Tgt Ion:105 Resp: 415758

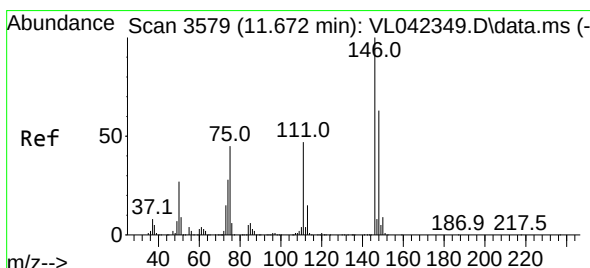
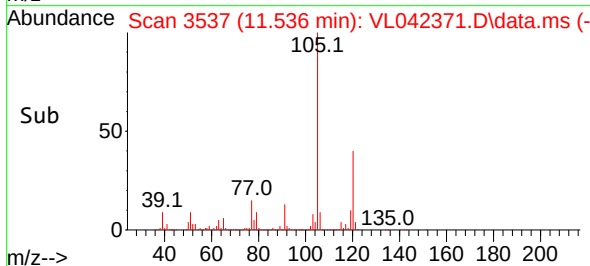
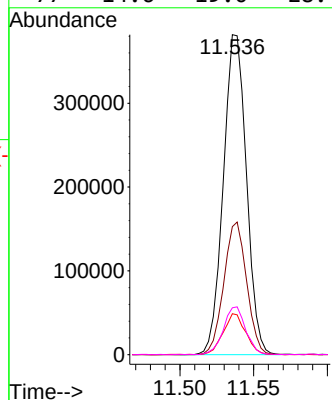
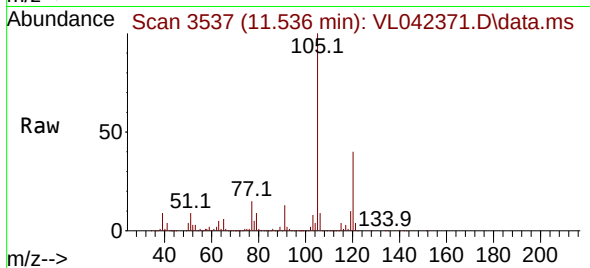
Ion Ratio Lower Upper

105 100

120 40.0 38.1 57.1

91 12.7 48.8 73.2#

77 14.6 19.0 28.4#



#76

1,4-Dichlorobenzene

Concen: 0.204 ppbv

RT: 11.675 min Scan# 3580

Delta R.T. 0.003 min

Lab File: VL042371.D

Acq: 17 Apr 2025 22:52

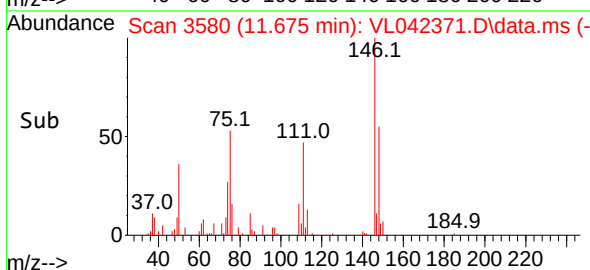
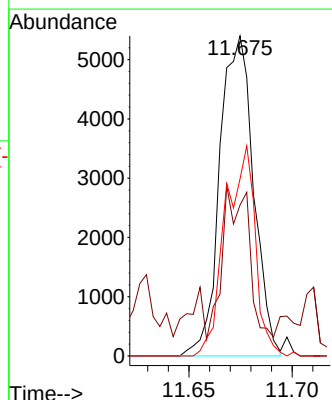
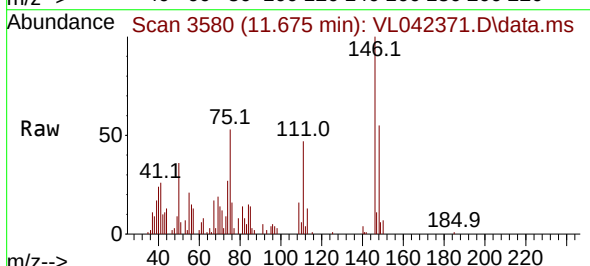
Tgt Ion:146 Resp: 6136

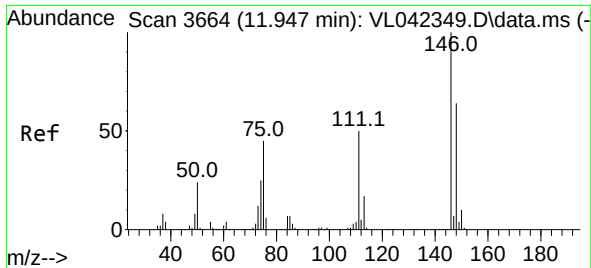
Ion Ratio Lower Upper

146 100

111 71.0 24.2 72.6

148 58.8 32.1 96.5

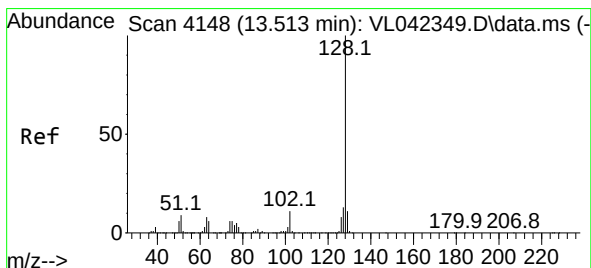
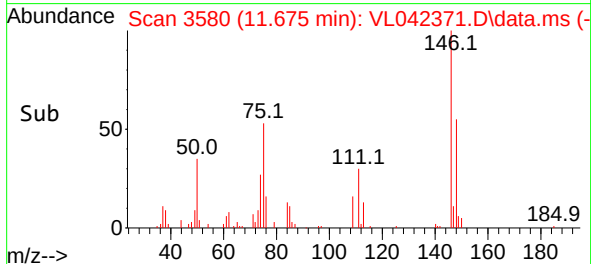
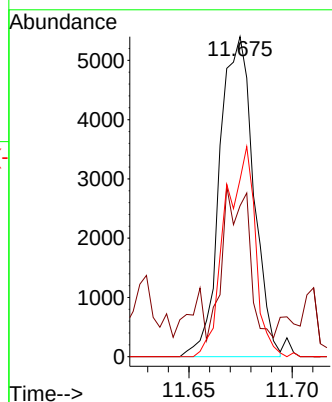
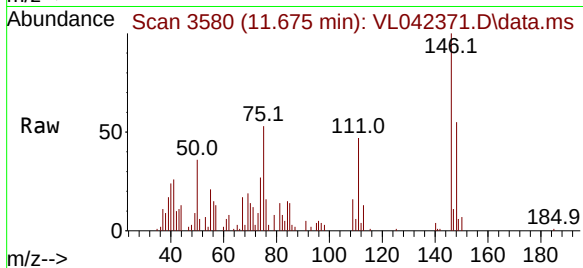




#77
1,2-Dichlorobenzene
Concen: 0.211 ppbv
RT: 11.675 min Scan# 31
Delta R.T. -0.272 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

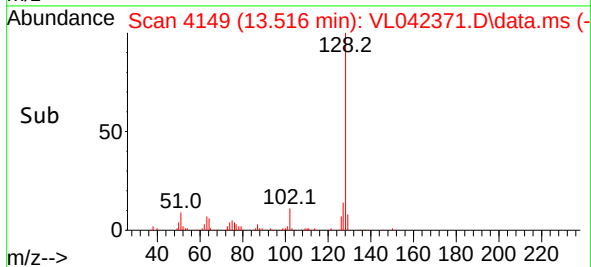
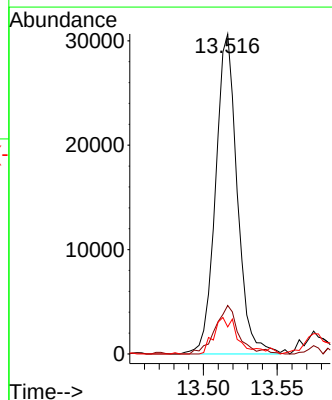
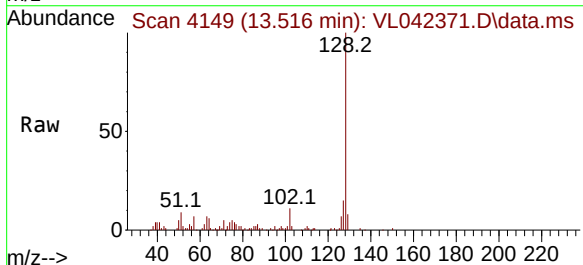
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025

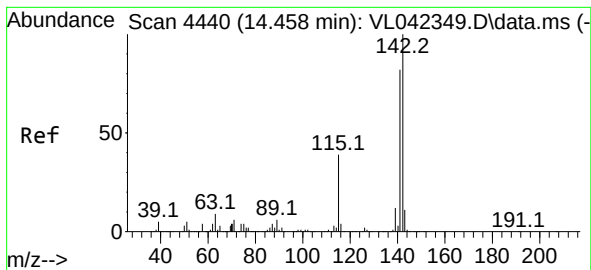
Tgt Ion:146 Resp: 6136
Ion Ratio Lower Upper
146 100
111 47.6 25.3 75.9
148 58.8 31.5 94.5



#79
Naphthalene
Concen: 0.454 ppbv
RT: 13.516 min Scan# 4149
Delta R.T. 0.003 min
Lab File: VL042371.D
Acq: 17 Apr 2025 22:52

Tgt Ion:128 Resp: 31283
Ion Ratio Lower Upper
128 100
127 15.2 10.6 15.8
129 8.5 8.6 12.8#





#80

Naphthalene, 2-methyl-

Concen: 0.128 ppbv

RT: 14.461 min Scan# 44

Delta R.T. 0.003 min

Lab File: VL042371.D

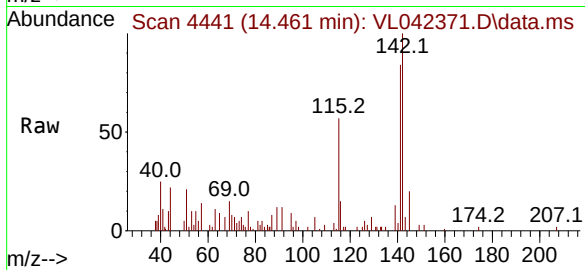
Acq: 17 Apr 2025 22:52

Instrument :

MSVOA_L

ClientSampleId :

IA-B2-3-03312025



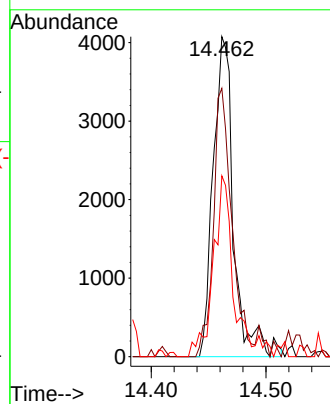
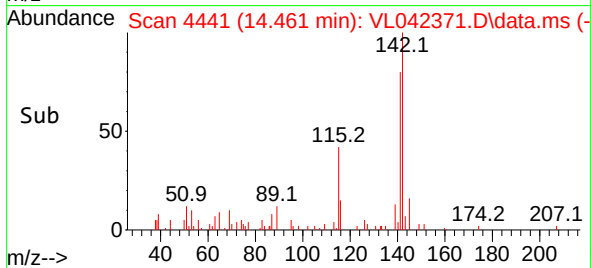
Tgt Ion:142 Resp: 5013

Ion Ratio Lower Upper

142 100

141 80.6 66.8 100.2

115 60.7 33.4 50.2#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042372.D
 Acq On : 17 Apr 2025 23:26
 Operator : SY/MD
 Sample : Q1726-07
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-4-03312025

Quant Time: Apr 18 02:46:43 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	110448	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.956	114	317011	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.879	117	275197	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	229240	10.137	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.400%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	9928	0.509	ppbv	92
3) Chlorodifluoromethane	1.467	51	69795	3.756	ppbv #	62
4) Chloromethane	1.531	50	4664	0.604	ppbv	95
6) Bromomethane	1.667	94	129	0.036	ppbv #	36
8) Dichlorotetrafluoroethane	1.554	85	514	0.031	ppbv	98
9) Propene	1.557	41	88913	10.507	ppbv	97
10) Heptane	4.978	43	98760	4.154	ppbv	99
11) Trichlorofluoromethane	1.875	101	5086	0.274	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.140	101	1322	0.087	ppbv	90
13) Ethanol	1.719	45	434403	322.963	ppbv	75
15) Acetone	1.832	43	3068967	169.738	ppbv #	45
16) 1,3-Butadiene	1.619	39	31651	3.660	ppbv #	14
17) tert-Butyl alcohol	2.273	59	44264	1.975	ppbv	98
19) Isopropyl Alcohol	1.884	45	344907	34.339	ppbv #	33
20) Methylene Chloride	2.062	84	19413	2.742	ppbv	97
21) Allyl Chloride	2.043	41	3713	0.297	ppbv #	23
23) Vinyl Acetate	2.473	43	64430	8.804	ppbv #	50
25) Ethyl Acetate	2.826	43	57942	1.300	ppbv #	79
26) Hexane	2.823	57	68262	3.784	ppbv #	38
27) Carbon Disulfide	2.146	76	1314	0.068	ppbv #	56
30) Cyclohexane	3.855	84	18963	1.300	ppbv	93
34) 2-Butanone	2.557	43	29844	1.190	ppbv	96
35) Carbon Tetrachloride	3.758	117	1196	0.042	ppbv #	65
36) Benzene	3.651	78	38575	1.128	ppbv	95
37) 1,2-Dichloroethane	3.218	62	4357	0.212	ppbv #	93
39) 1,2-Dichloropropane	3.959	63	83896	6.584	ppbv #	25
41) Tetrahydrofuran	3.062	42	3068	0.210	ppbv #	35
44) 2,2,4-Trimethylpentane	4.639	57	623779	10.563	ppbv	95
50) 4-Methyl-2-Pentanone	5.752	43	3194	0.077	ppbv #	39
51) 2-Hexanone	7.422	43	10664	0.285	ppbv #	55
52) Tetrachloroethene	8.222	164	1420	0.107	ppbv #	85
53) Toluene	6.933	91	1085281	26.450	ppbv	99
58) Ethyl Benzene	9.351	91	277437	5.088	ppbv	100
59) m/p-Xylene	9.529	91	770401	17.539	ppbv	99
60) o-Xylene	9.963	91	305451	6.906	ppbv	98
61) Styrene	9.872	104	7737	0.366	ppbv	91
62) Isopropylbenzene	10.536	105	32373	0.499	ppbv	99
64) n-propylbenzene	10.986	120	27039	1.657	ppbv	87
65) tert-Butylbenzene	11.536	119	53708	0.900	ppbv #	73
66) Benzyl Chloride	11.737	91	7178	1.094	ppbv #	73
67) sec-Butylbenzene	11.766	105	10233	0.123	ppbv #	60
69) p-Isopropyltoluene	11.924	119	39473	0.547	ppbv	95
70) n-Butylbenzene	12.280	91	21674	0.289	ppbv #	85

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042372.D
 Acq On : 17 Apr 2025 23:26
 Operator : SY/MD
 Sample : Q1726-07
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-4-03312025

Quant Time: Apr 18 02:46:43 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

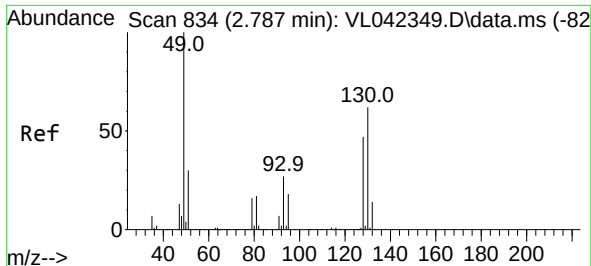
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

71) 2-Chlorotoluene	10.902	91	70326	1.381	ppbv	100
72) 4-Ethyltoluene	11.122	105	146733	2.714	ppbv #	56
73) 1,3,5-Trimethylbenzene	11.203	105	156177	3.271	ppbv	98
74) 1,2,4-Trimethylbenzene	11.536	105	502862	9.018	ppbv #	64
76) 1,4-Dichlorobenzene	11.669	146	10548	0.362	ppbv #	80
79) Naphthalene	13.513	128	38387	0.576	ppbv	96
80) Naphthalene,2-methyl-	14.459	142	7927	0.209	ppbv #	89

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

Quant Time: Apr 18 02:46:43 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

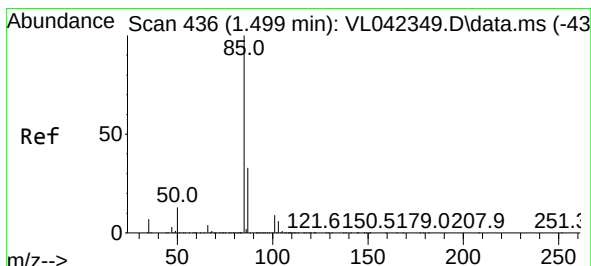
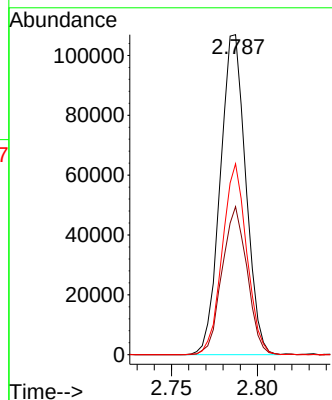
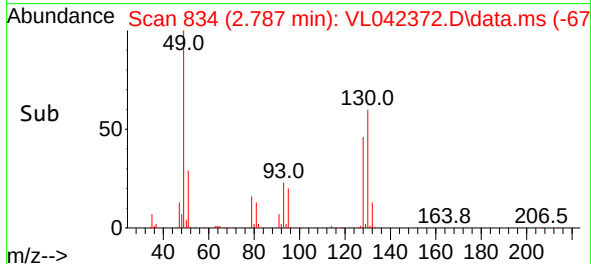
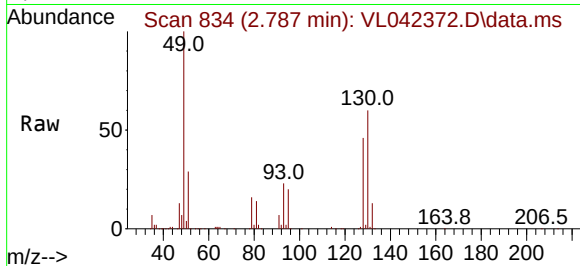




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 834
Delta R.T. 0.000 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

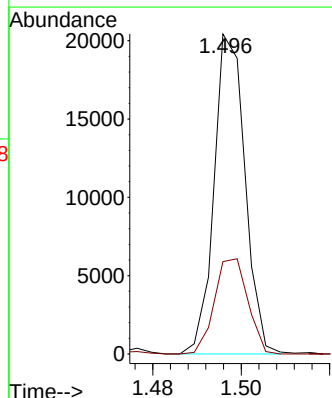
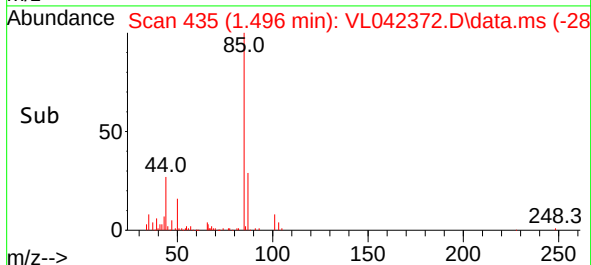
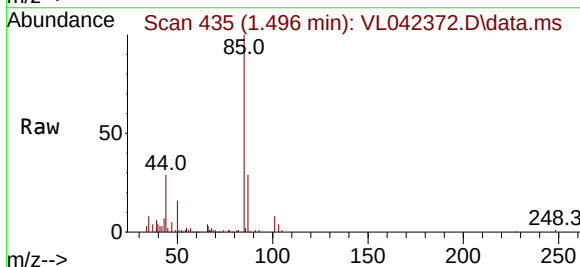
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

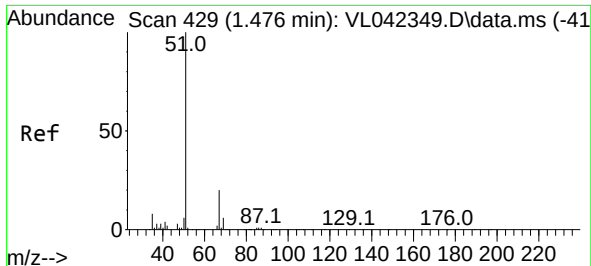
Tgt Ion: 49 Resp: 110448
Ion Ratio Lower Upper
49 100
128 45.3 22.8 68.4
130 57.0 29.3 88.0



#2
Dichlorodifluoromethane
Concen: 0.509 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion: 85 Resp: 9928
Ion Ratio Lower Upper
85 100
87 28.9 26.6 39.8

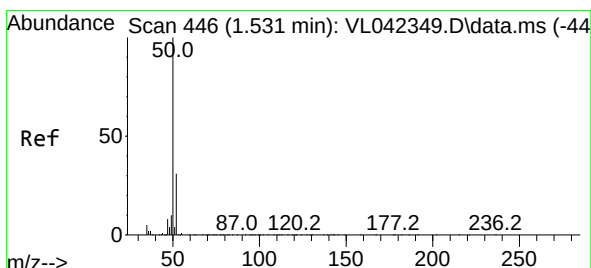
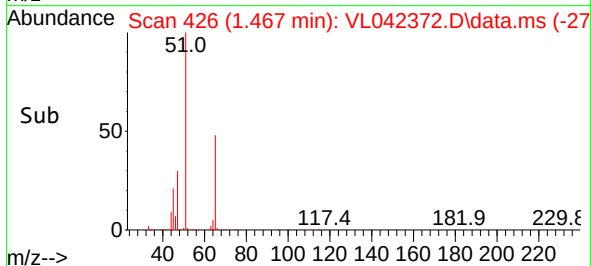
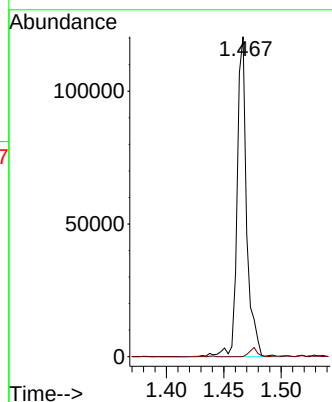
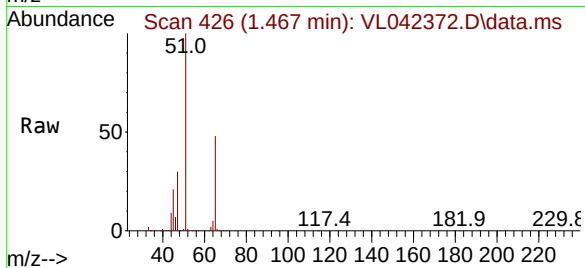




#3
Chlorodifluoromethane
Concen: 3.756 ppbv
RT: 1.467 min Scan# 41
Delta R.T. -0.009 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

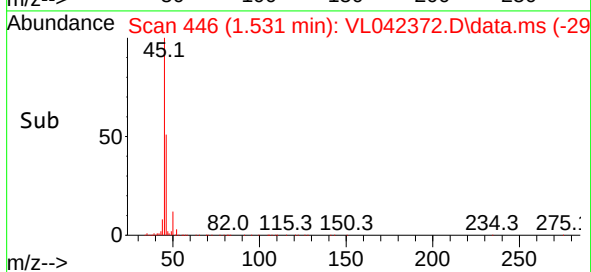
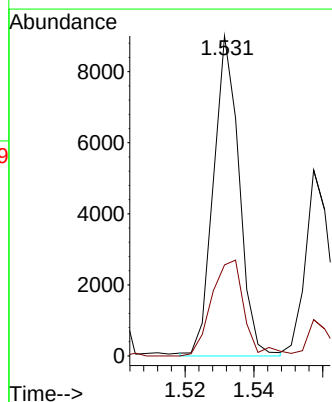
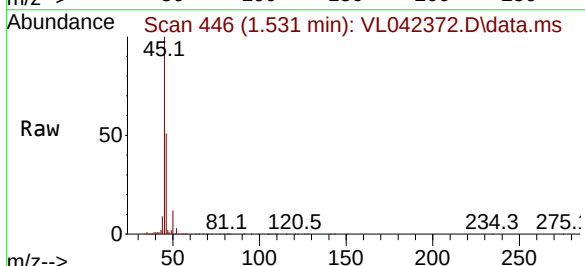
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

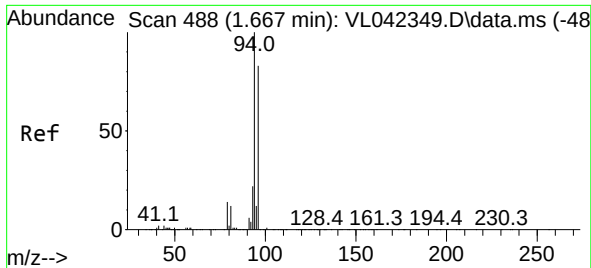
Tgt Ion: 51 Resp: 69795
Ion Ratio Lower Upper
51 100
67 2.6 16.2 24.4#



#4
Chloromethane
Concen: 0.604 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion: 50 Resp: 4664
Ion Ratio Lower Upper
50 100
52 27.9 24.7 37.1

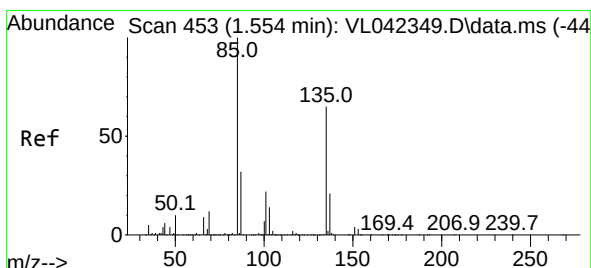
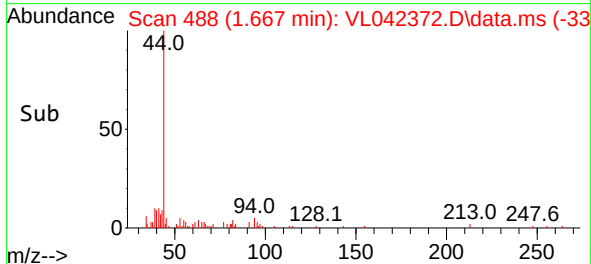
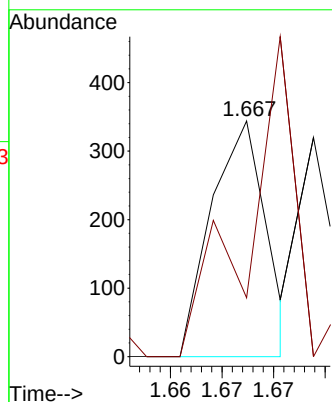
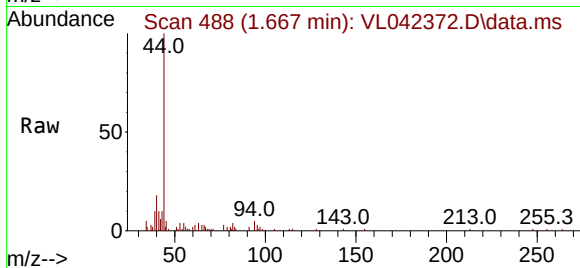




#6
Bromomethane
Concen: 0.036 ppbv
RT: 1.667 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

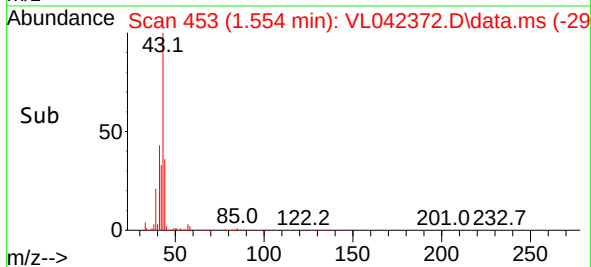
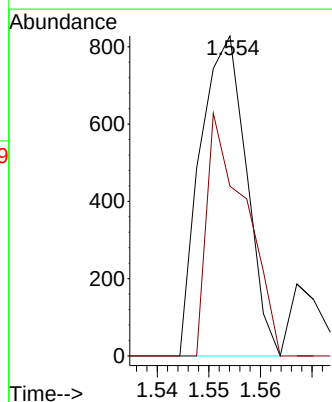
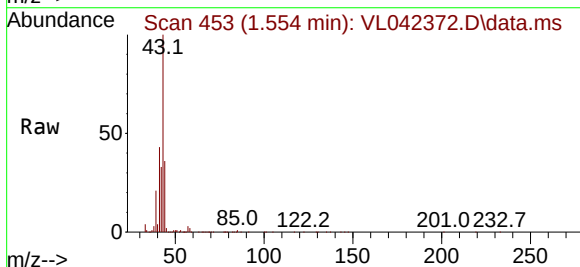
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

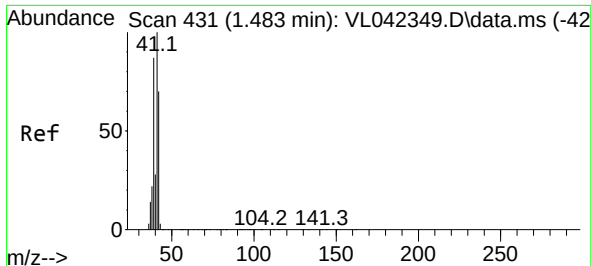
Tgt Ion: 94 Resp: 129
Ion Ratio Lower Upper
94 100
96 25.0 66.2 99.2#



#8
Dichlorotetrafluoroethane
Concen: 0.031 ppbv
RT: 1.554 min Scan# 453
Delta R.T. 0.000 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion: 85 Resp: 514
Ion Ratio Lower Upper
85 100
135 64.0 52.2 78.2





#9

Propene

Concen: 10.507 ppbv

RT: 1.557 min Scan# 41

Delta R.T. 0.075 min

Lab File: VL042372.D

Acq: 17 Apr 2025 23:26

Instrument :

MSVOA_L

ClientSampleId :

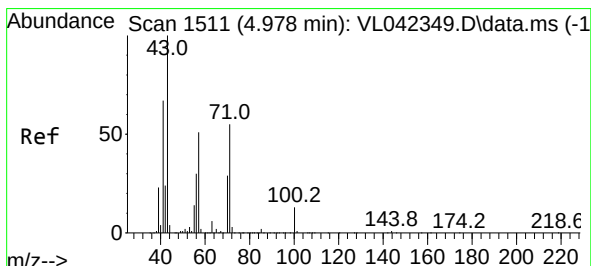
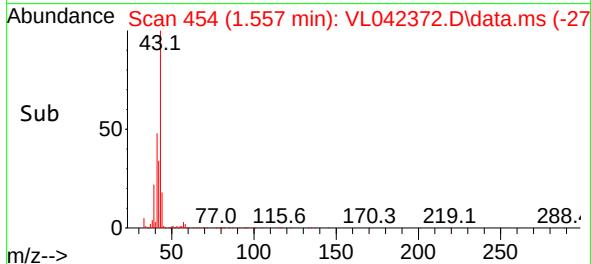
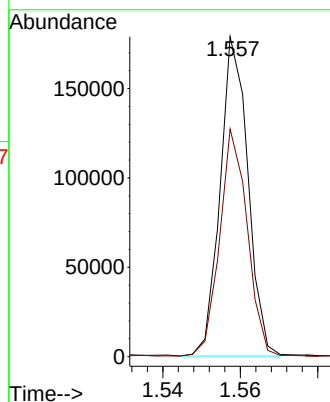
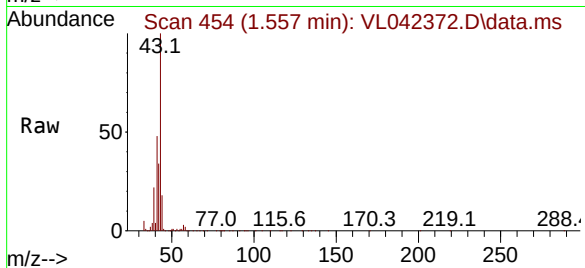
IA-B2-4-03312025

Tgt Ion: 41 Resp: 88913

Ion Ratio Lower Upper

41 100

42 73.0 56.2 84.4



#10

Heptane

Concen: 4.154 ppbv

RT: 4.978 min Scan# 1511

Delta R.T. 0.000 min

Lab File: VL042372.D

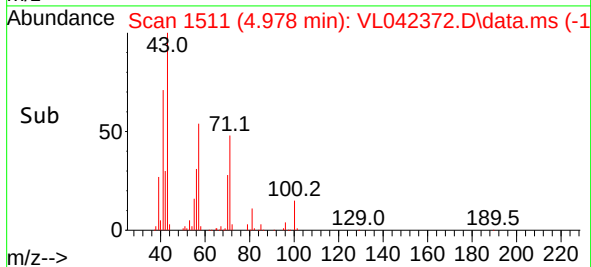
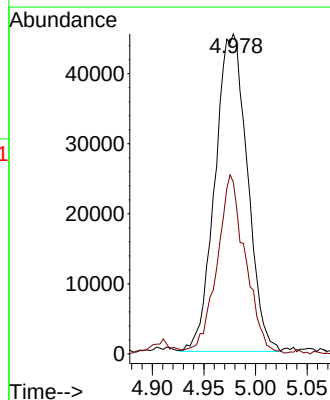
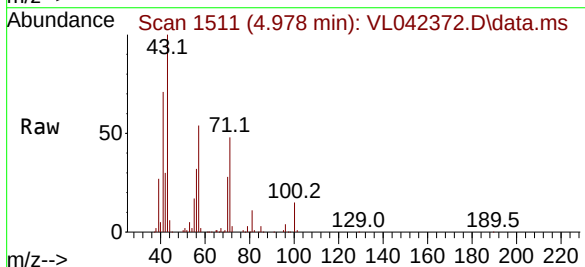
Acq: 17 Apr 2025 23:26

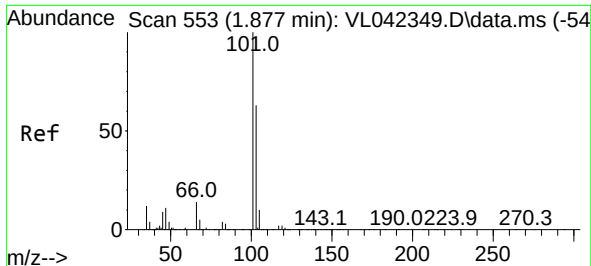
Tgt Ion: 43 Resp: 98760

Ion Ratio Lower Upper

43 100

57 50.3 39.9 59.9

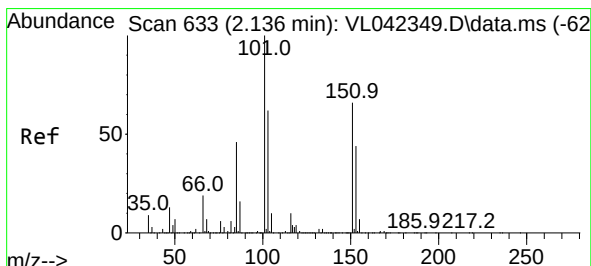
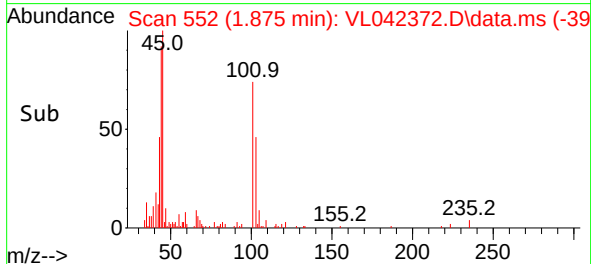
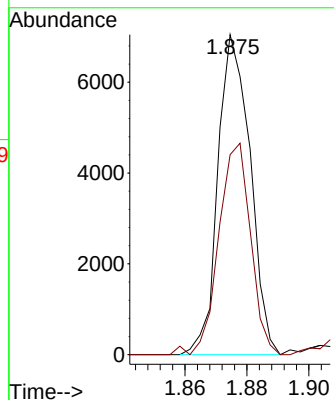
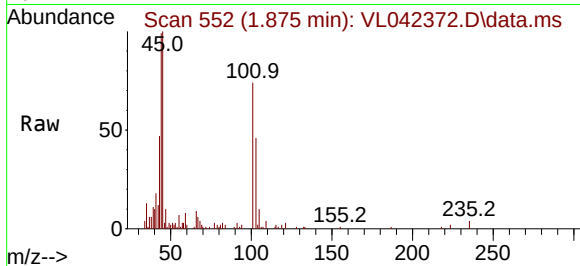




#11
 Trichlorofluoromethane
 Concen: 0.274 ppbv
 RT: 1.875 min Scan# 511
 Delta R.T. -0.003 min
 Lab File: VL042372.D
 Acq: 17 Apr 2025 23:26

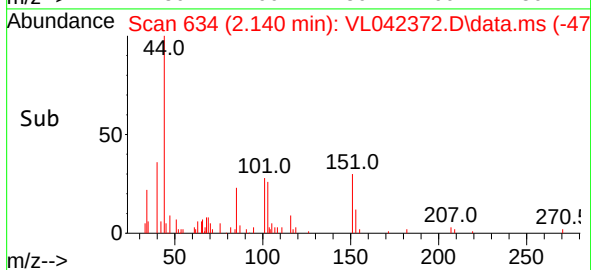
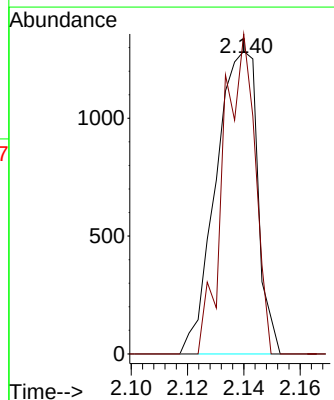
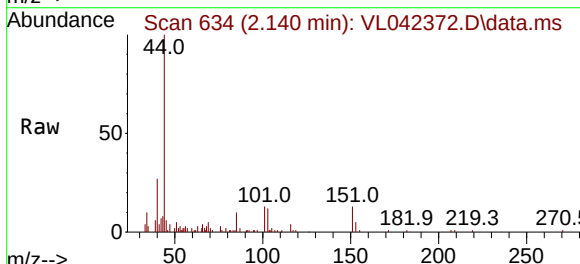
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-4-03312025

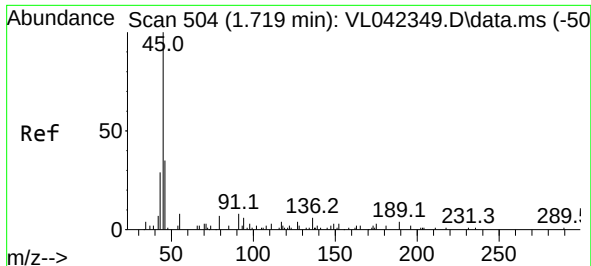
Tgt Ion:101 Resp: 5086
 Ion Ratio Lower Upper
 101 100
 103 62.5 50.1 75.1



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.087 ppbv
 RT: 2.140 min Scan# 634
 Delta R.T. 0.004 min
 Lab File: VL042372.D
 Acq: 17 Apr 2025 23:26

Tgt Ion:101 Resp: 1322
 Ion Ratio Lower Upper
 101 100
 151 79.7 57.0 85.6

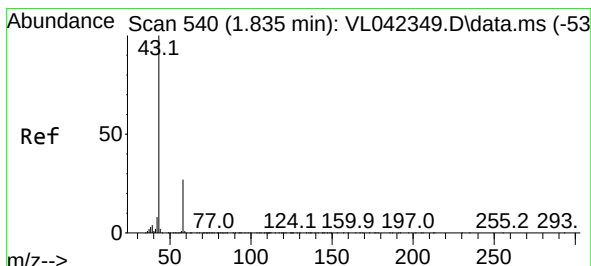
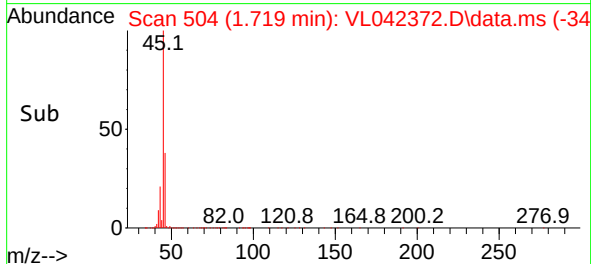
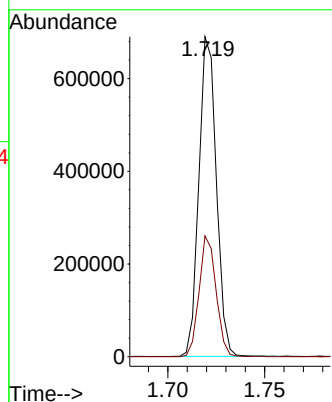
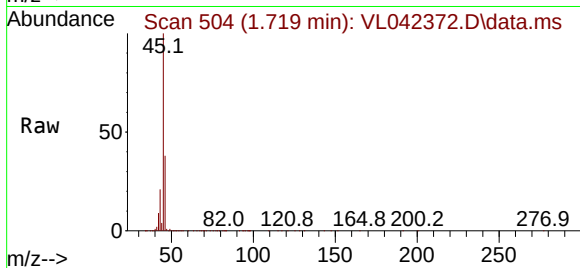




#13
Ethanol
Concen: 322.963 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

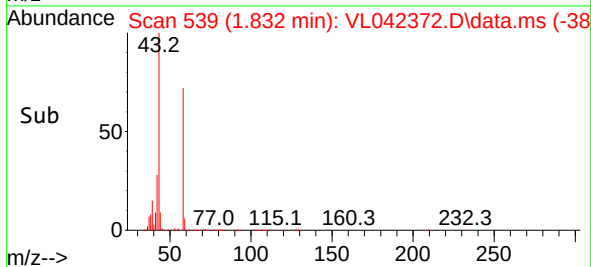
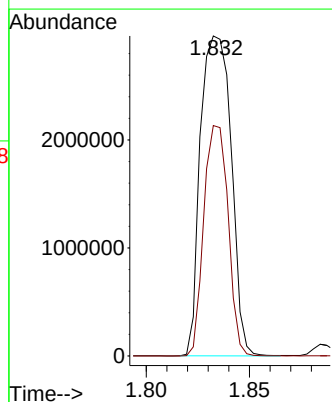
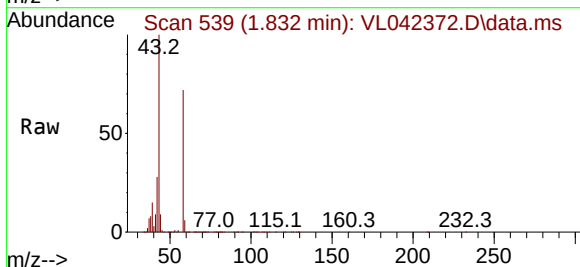
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

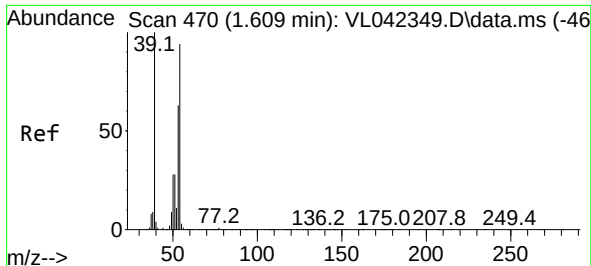
Tgt Ion: 45 Resp: 434403
Ion Ratio Lower Upper
45 100
46 36.8 21.9 87.7



#15
Acetone
Concen: 169.738 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.003 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion: 43 Resp: 3068967
Ion Ratio Lower Upper
43 100
58 56.8 22.4 33.6#

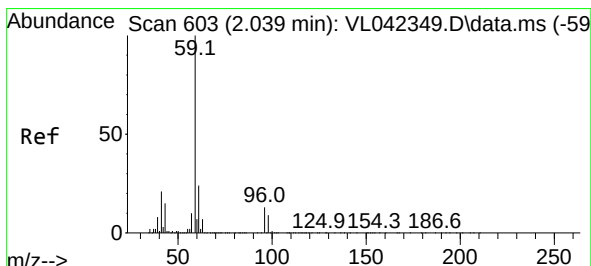
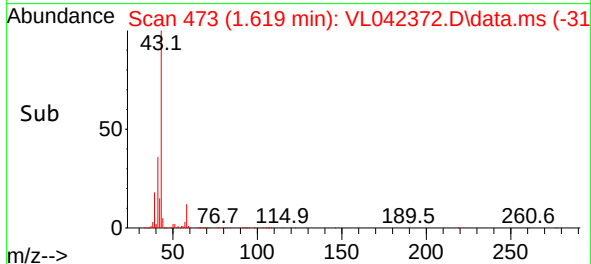
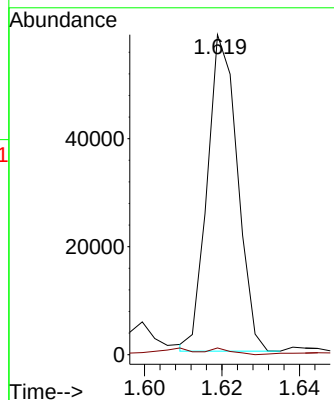
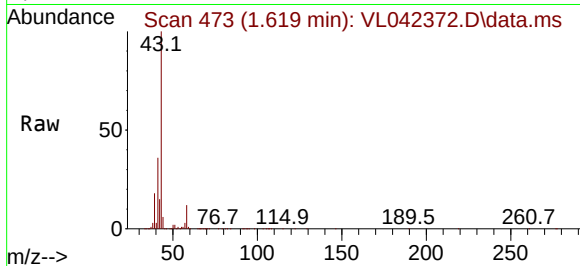




#16
1,3-Butadiene
Concen: 3.660 ppbv
RT: 1.619 min Scan# 41
Delta R.T. 0.010 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

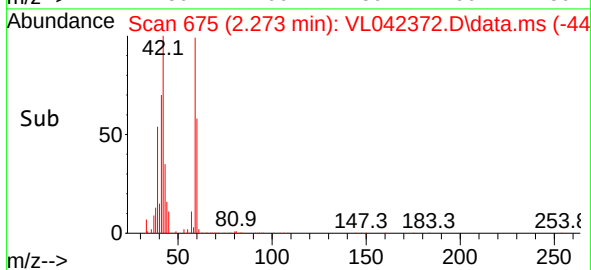
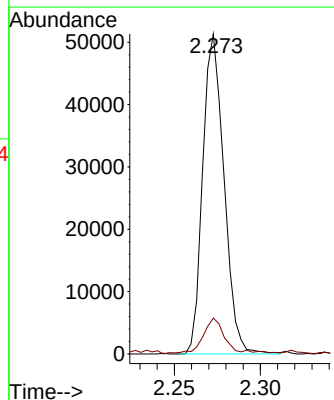
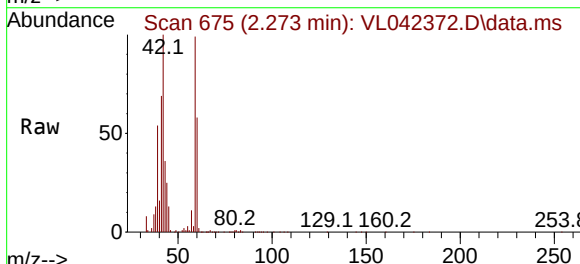
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

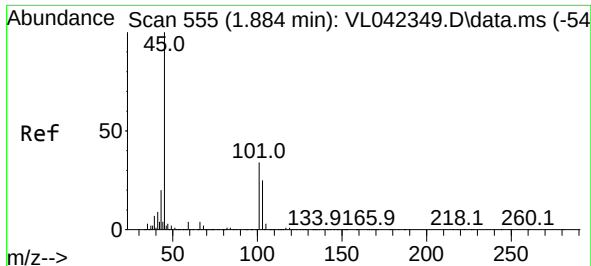
Tgt Ion: 39 Resp: 31651
Ion Ratio Lower Upper
39 100
54 4.5 64.9 97.3#



#17
tert-Butyl alcohol
Concen: 1.975 ppbv
RT: 2.273 min Scan# 675
Delta R.T. 0.233 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion: 59 Resp: 44264
Ion Ratio Lower Upper
59 100
57 10.2 8.7 13.1

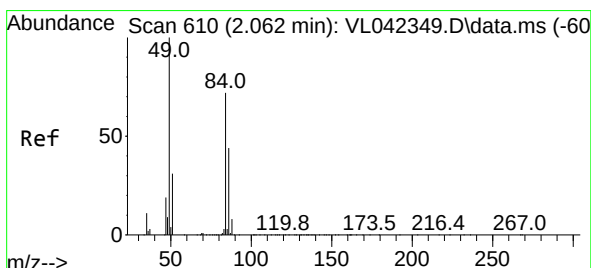
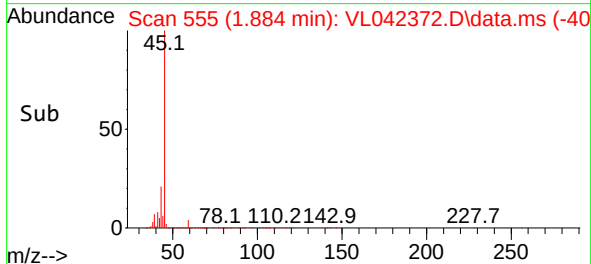
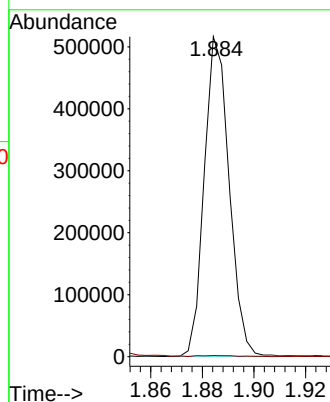
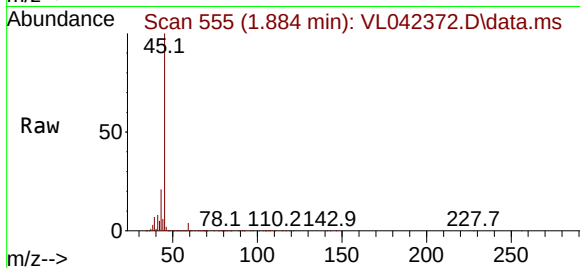




#19
Isopropyl Alcohol
Concen: 34.339 ppbv
RT: 1.884 min Scan# 51
Delta R.T. 0.000 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

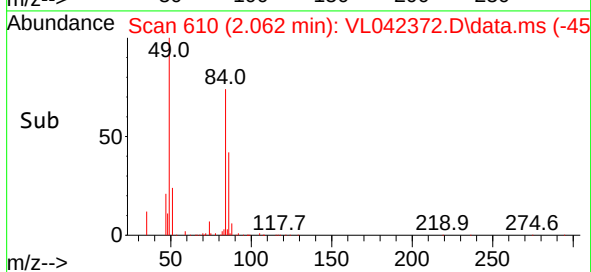
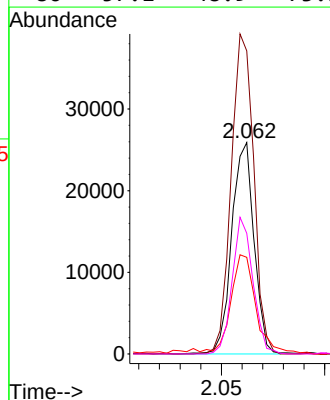
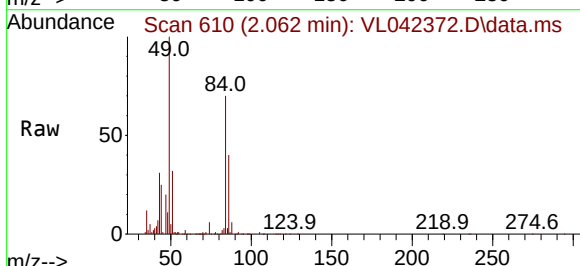
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

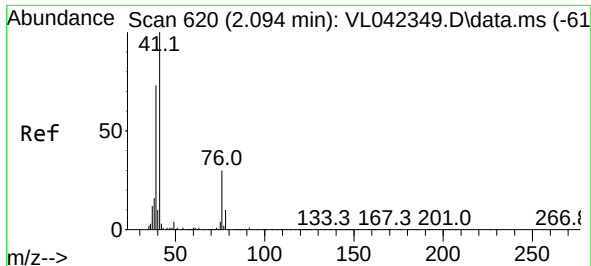
Tgt Ion: 45 Resp: 344907
Ion Ratio Lower Upper
45 100
58 0.0 34.5 51.7#



#20
Methylene Chloride
Concen: 2.742 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion: 84 Resp: 19413
Ion Ratio Lower Upper
84 100
49 143.4 111.6 167.4
51 44.2 35.1 52.7
86 57.1 48.9 73.3

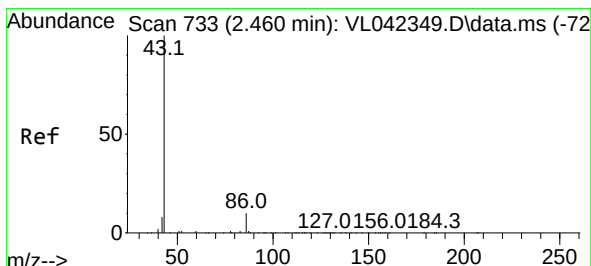
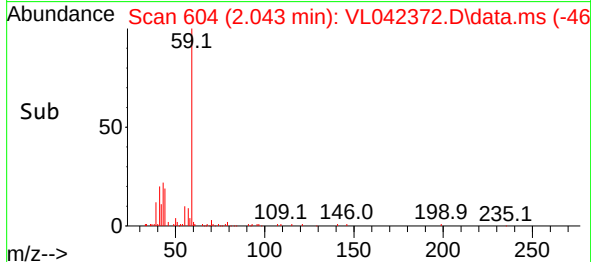
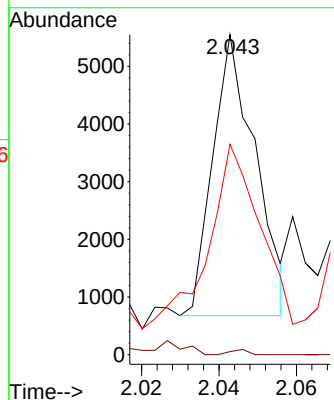
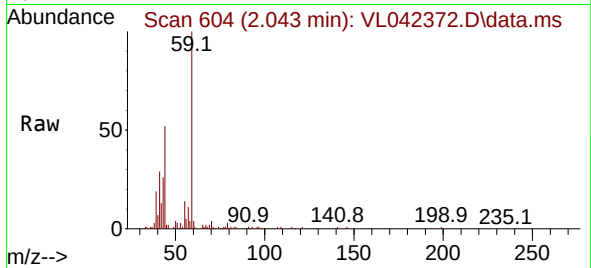




#21
 Allyl Chloride
 Concen: 0.297 ppbv
 RT: 2.043 min Scan# 604
 Delta R.T. -0.051 min
 Lab File: VL042372.D
 Acq: 17 Apr 2025 23:26

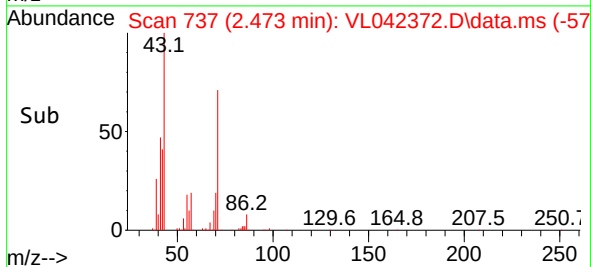
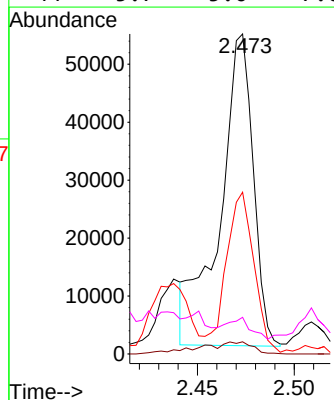
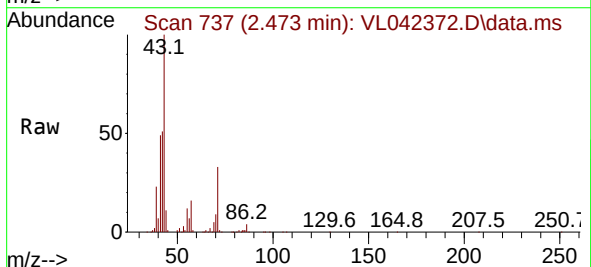
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-4-03312025

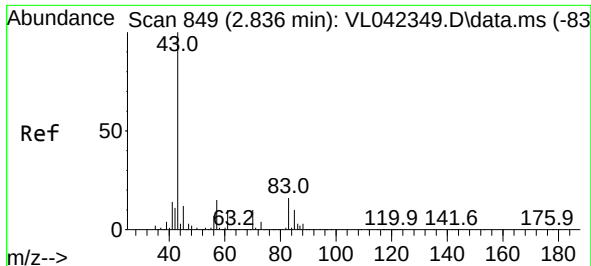
Tgt Ion: 41 Resp: 3713
 Ion Ratio Lower Upper
 41 100
 76 4.7 24.8 37.2#
 39 0.0 60.6 90.8#



#23
 Vinyl Acetate
 Concen: 8.804 ppbv
 RT: 2.473 min Scan# 737
 Delta R.T. 0.013 min
 Lab File: VL042372.D
 Acq: 17 Apr 2025 23:26

Tgt Ion: 43 Resp: 64430
 Ion Ratio Lower Upper
 43 100
 86 3.8 6.5 9.7#
 42 51.6 7.8 11.8#
 44 5.7 5.0 7.6





#25

Ethyl Acetate

Concen: 1.300 ppbv

RT: 2.826 min Scan# 84

Delta R.T. -0.009 min

Lab File: VL042372.D

Acq: 17 Apr 2025 23:26

Instrument :

MSVOA_L

ClientSampleId :

IA-B2-4-03312025

Tgt Ion: 43 Resp: 57942

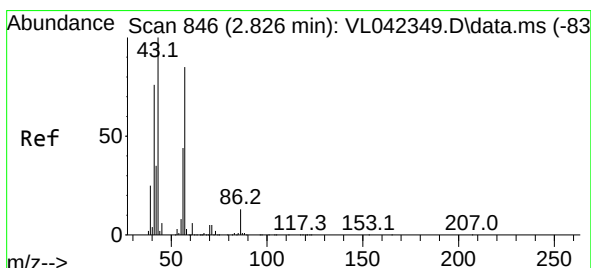
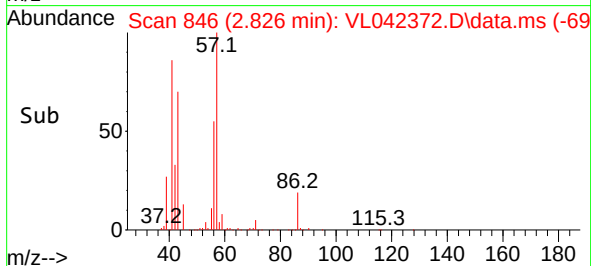
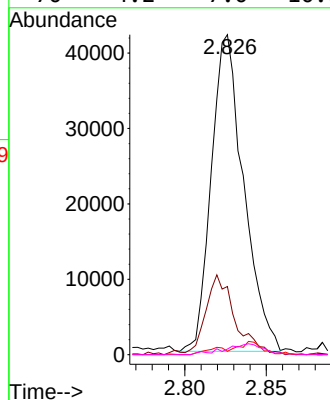
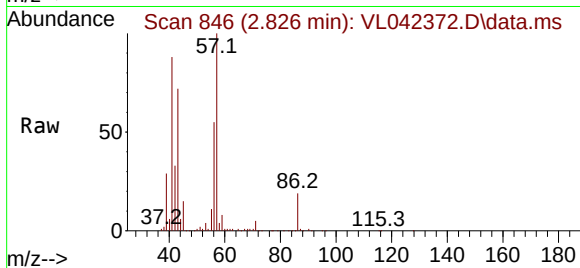
Ion Ratio Lower Upper

43 100

45 23.6 8.3 12.5#

61 4.5 7.3 10.9#

70 4.2 7.0 10.6#



#26

Hexane

Concen: 3.784 ppbv

RT: 2.823 min Scan# 845

Delta R.T. -0.003 min

Lab File: VL042372.D

Acq: 17 Apr 2025 23:26

Tgt Ion: 57 Resp: 68262

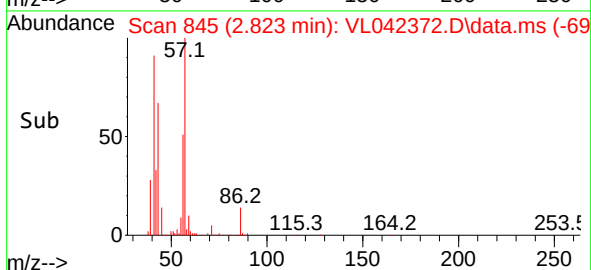
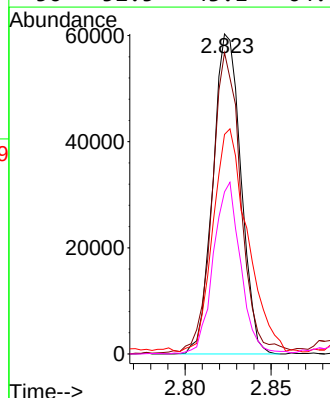
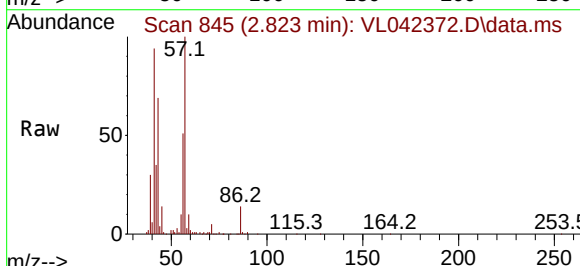
Ion Ratio Lower Upper

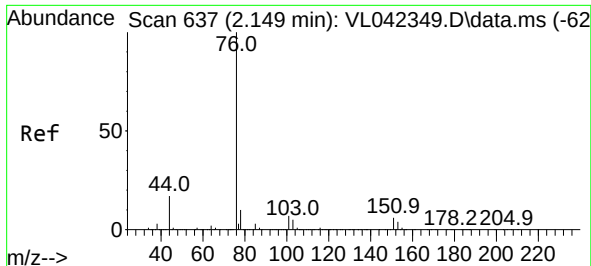
57 100

41 96.5 77.9 116.9

43 86.0 208.4 312.6#

56 52.5 43.1 64.7





#27

Carbon Disulfide

Concen: 0.068 ppbv

RT: 2.146 min Scan# 61

Delta R.T. -0.003 min

Lab File: VL042372.D

Acq: 17 Apr 2025 23:26

Instrument :

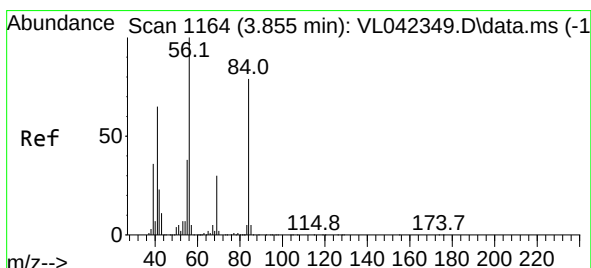
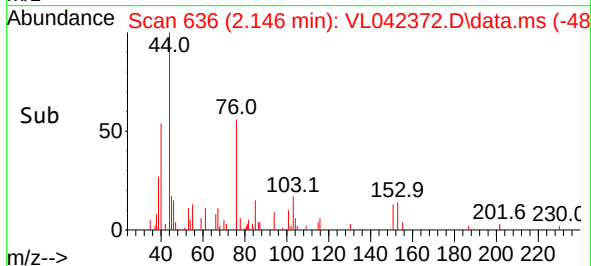
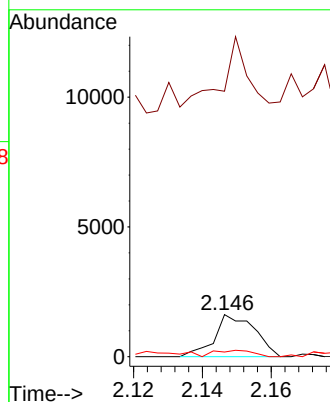
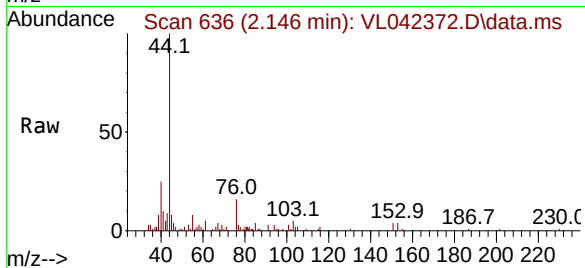
MSVOA_L

ClientSampleId :

IA-B2-4-03312025

Tgt Ion: 76 Resp: 1314

Ion	Ratio	Lower	Upper
76	100		
44	0.0	15.5	23.3#
78	29.8	9.3	13.9#



#30

Cyclohexane

Concen: 1.300 ppbv

RT: 3.855 min Scan# 1164

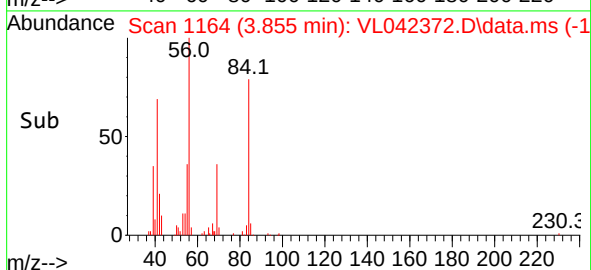
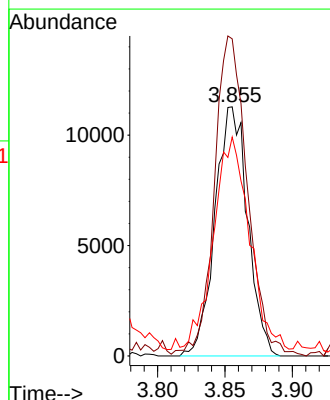
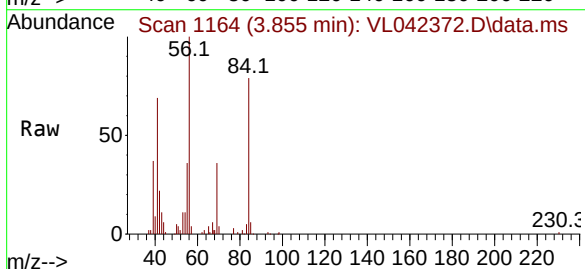
Delta R.T. 0.000 min

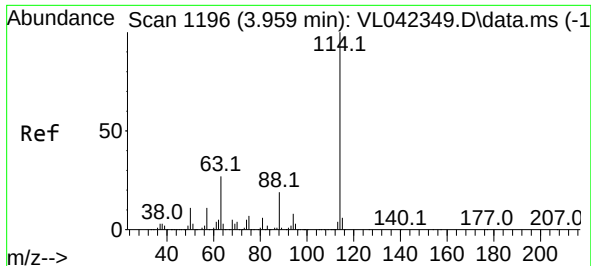
Lab File: VL042372.D

Acq: 17 Apr 2025 23:26

Tgt Ion: 84 Resp: 18963

Ion	Ratio	Lower	Upper
84	100		
56	131.9	101.0	151.4
41	93.9	67.4	101.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.956 min Scan# 1195

Delta R.T. -0.003 min

Lab File: VL042372.D

Acq: 17 Apr 2025 23:26

Instrument :

MSVOA_L

ClientSampleId :

IA-B2-4-03312025

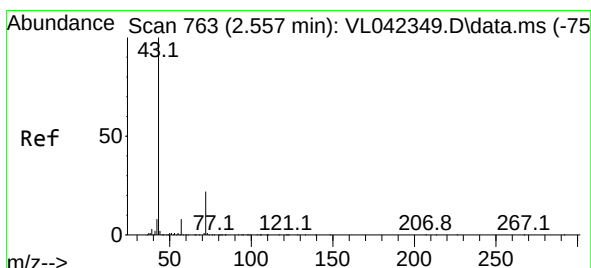
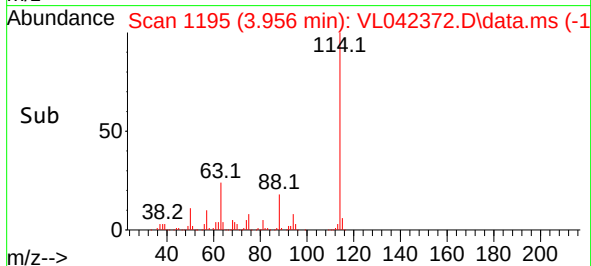
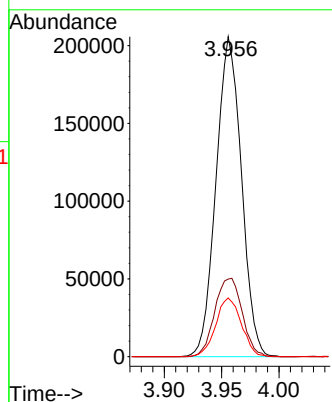
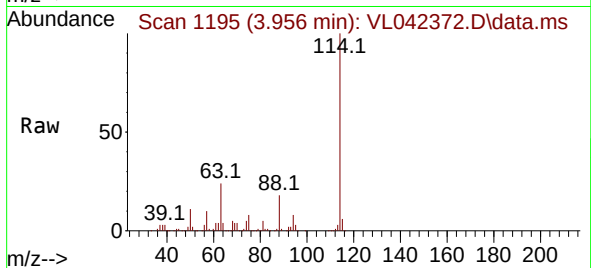
Tgt Ion:114 Resp: 317011

Ion Ratio Lower Upper

114 100

63 26.5 21.8 32.6

88 18.5 15.5 23.3



#34

2-Butanone

Concen: 1.190 ppbv

RT: 2.557 min Scan# 763

Delta R.T. 0.000 min

Lab File: VL042372.D

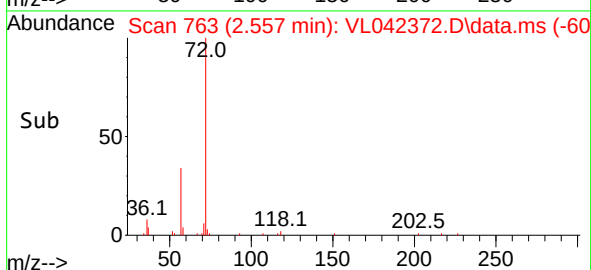
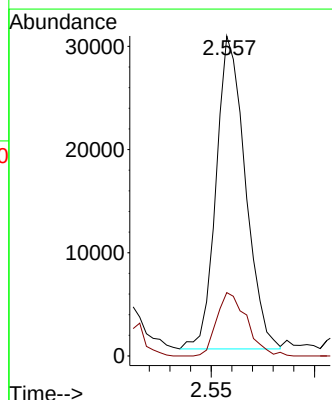
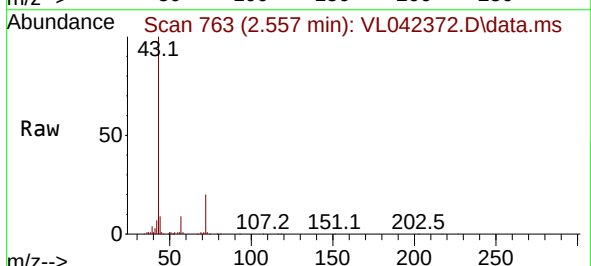
Acq: 17 Apr 2025 23:26

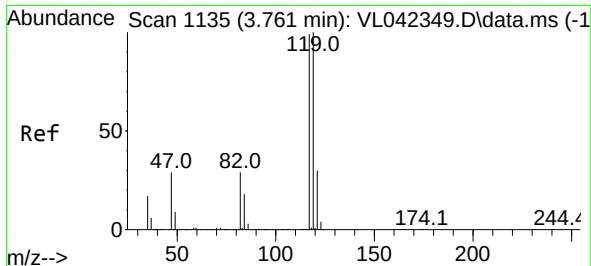
Tgt Ion: 43 Resp: 29844

Ion Ratio Lower Upper

43 100

72 20.9 18.2 27.2

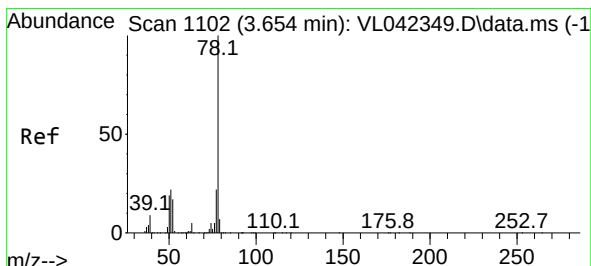
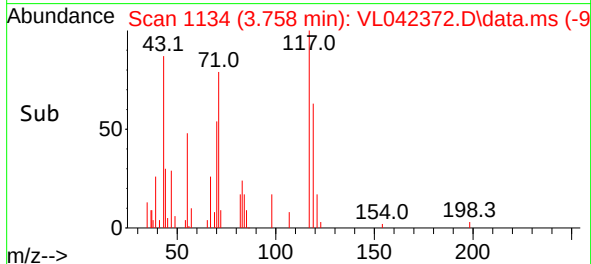
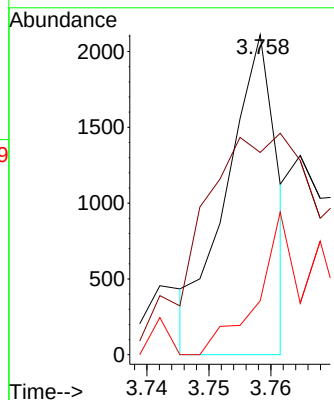
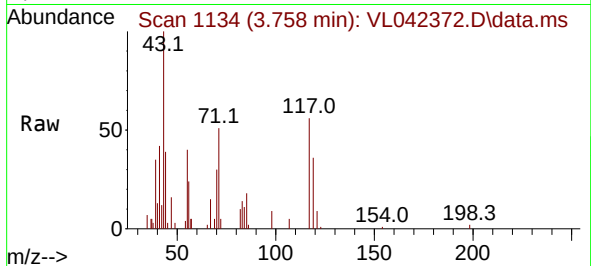




#35
Carbon Tetrachloride
Concen: 0.042 ppbv
RT: 3.758 min Scan# 1134
Delta R.T. -0.003 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

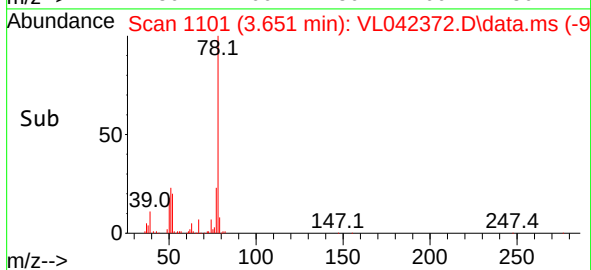
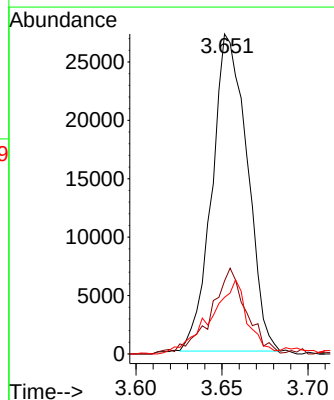
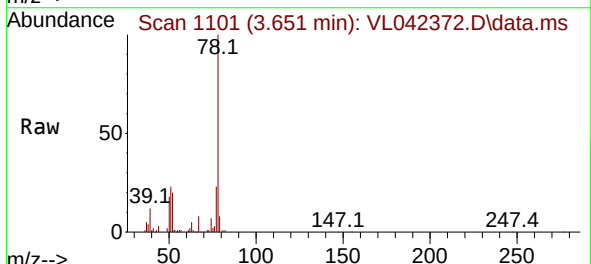
Instrument :
MSVOA_1
ClientSampleId :
IA-B2-4-03312025

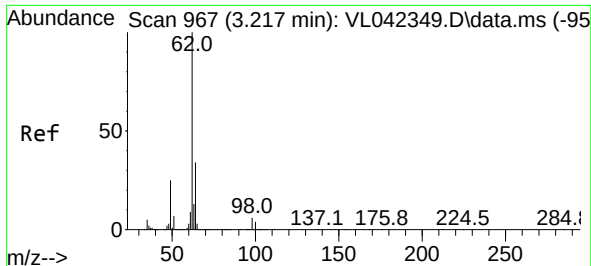
Tgt Ion:117 Resp: 1196
Ion Ratio Lower Upper
117 100
119 60.3 80.5 120.7#
121 21.2 24.2 36.2#



#36
Benzene
Concen: 1.128 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.003 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion: 78 Resp: 38575
Ion Ratio Lower Upper
78 100
77 22.7 17.4 26.0
50 15.8 15.5 23.3





#37

1,2-Dichloroethane

Concen: 0.212 ppbv

RT: 3.218 min Scan# 9

Delta R.T. 0.000 min

Lab File: VL042372.D

Acq: 17 Apr 2025 23:26

Instrument :

MSVOA_L

ClientSampleId :

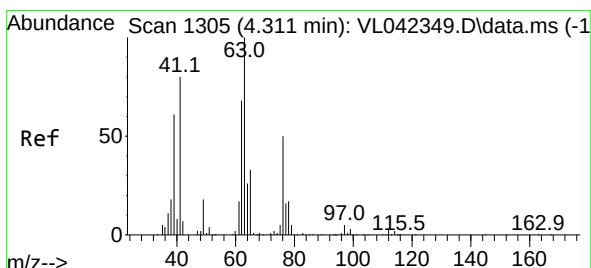
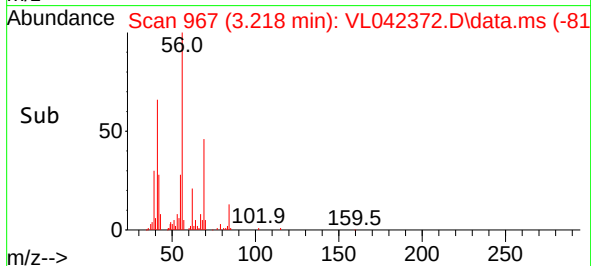
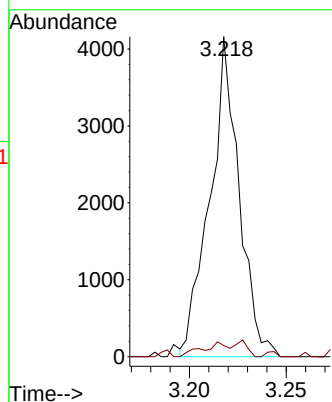
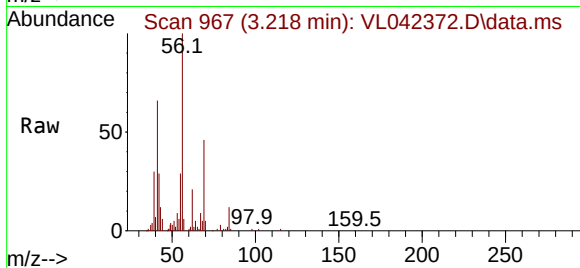
IA-B2-4-03312025

Tgt Ion: 62 Resp: 4357

Ion Ratio Lower Upper

62 100

98 8.8 5.1 7.7#



#39

1,2-Dichloropropane

Concen: 6.584 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. -0.352 min

Lab File: VL042372.D

Acq: 17 Apr 2025 23:26

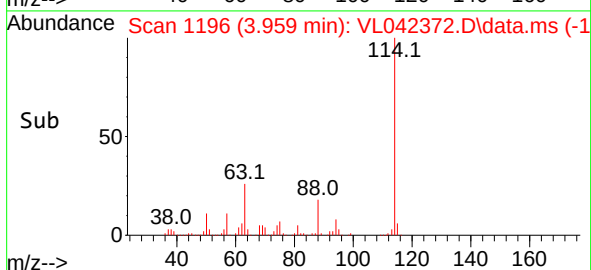
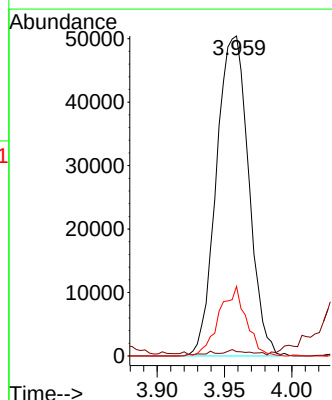
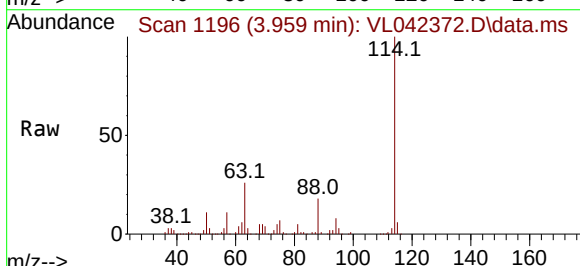
Tgt Ion: 63 Resp: 83896

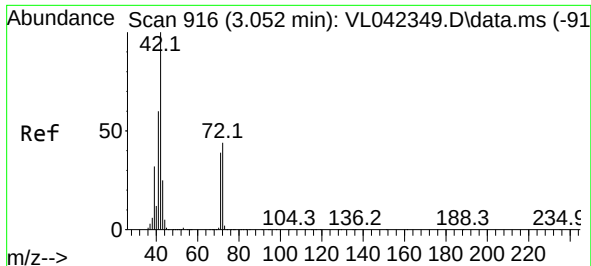
Ion Ratio Lower Upper

63 100

41 0.6 64.2 96.2#

62 21.7 54.3 81.5#

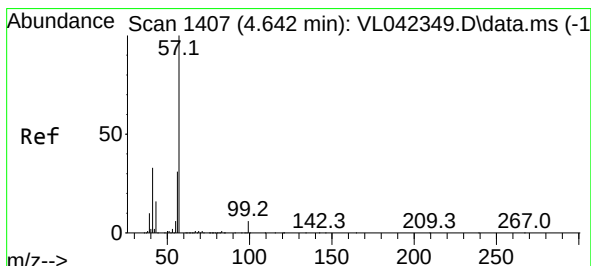
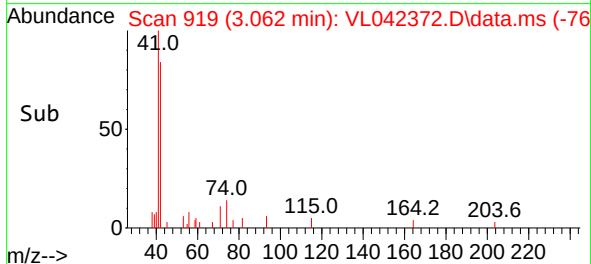
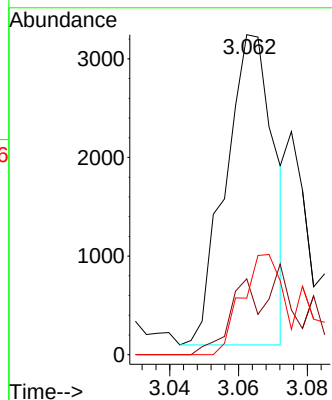
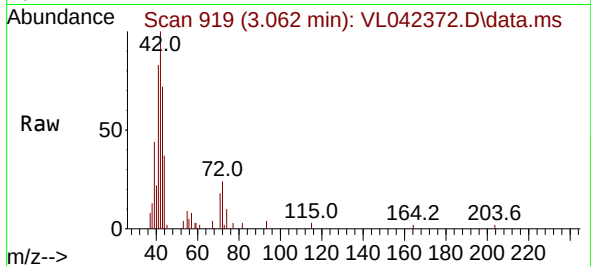




#41
Tetrahydrofuran
Concen: 0.210 ppbv
RT: 3.062 min Scan# 916
Delta R.T. 0.010 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

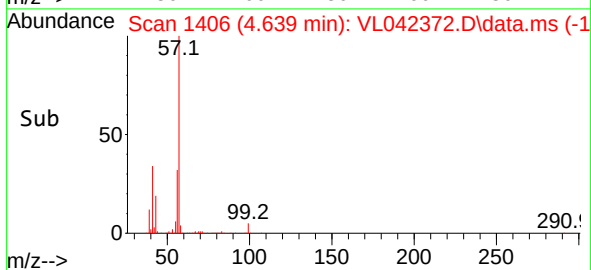
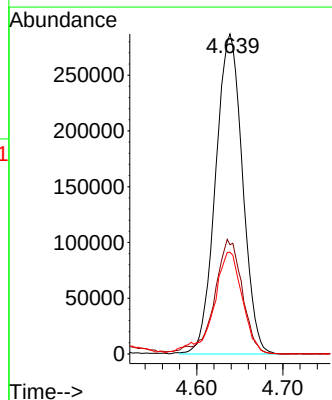
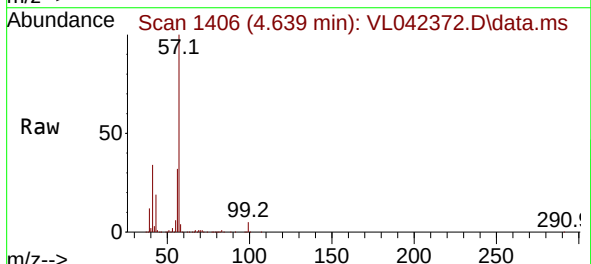
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

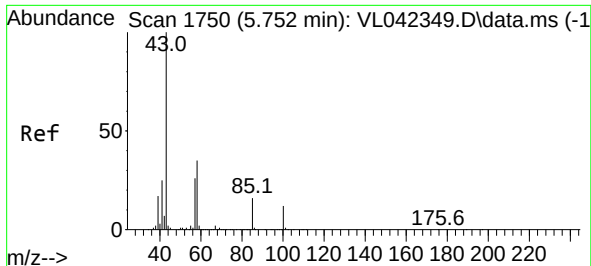
Tgt Ion: 42 Resp: 3068
Ion Ratio Lower Upper
42 100
72 0.0 32.3 48.5#
71 0.0 31.4 47.2#



#44
2,2,4-Trimethylpentane
Concen: 10.563 ppbv
RT: 4.639 min Scan# 1406
Delta R.T. -0.003 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion: 57 Resp: 623779
Ion Ratio Lower Upper
57 100
41 37.2 27.2 40.8
56 34.0 25.7 38.5





#50

4-Methyl-2-Pentanone

Concen: 0.077 ppbv

RT: 5.752 min Scan# 1

Delta R.T. 0.000 min

Lab File: VL042372.D

Acq: 17 Apr 2025 23:26

Instrument :

MSVOA_L

ClientSampleId :

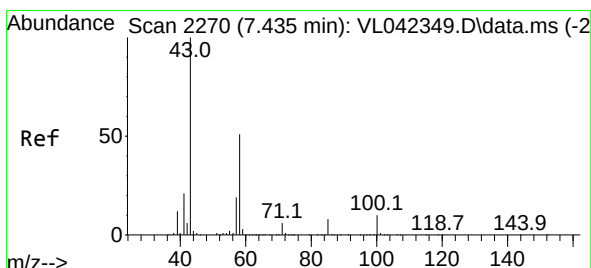
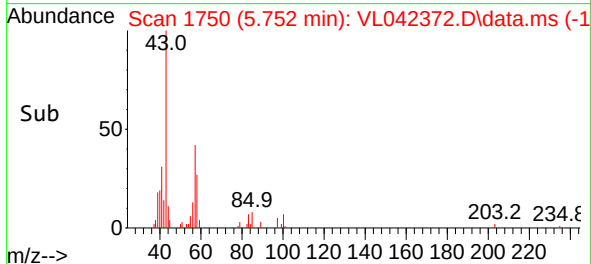
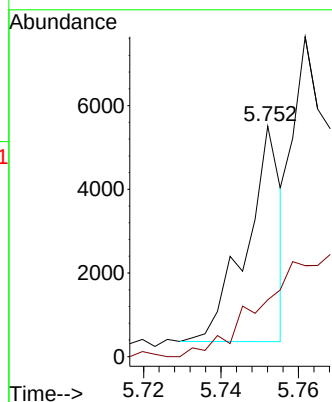
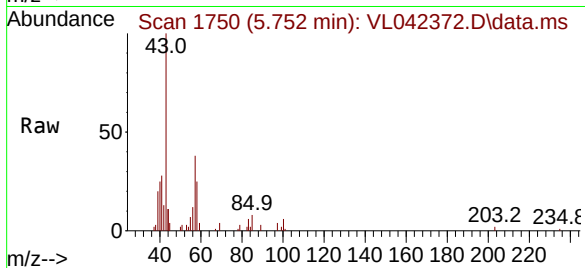
IA-B2-4-03312025

Tgt Ion: 43 Resp: 3194

Ion Ratio Lower Upper

43 100

58 0.0 28.6 43.0#



#51

2-Hexanone

Concen: 0.285 ppbv

RT: 7.422 min Scan# 2266

Delta R.T. -0.013 min

Lab File: VL042372.D

Acq: 17 Apr 2025 23:26

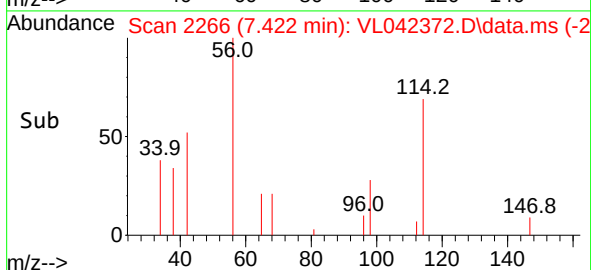
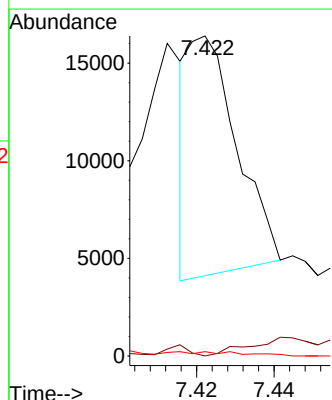
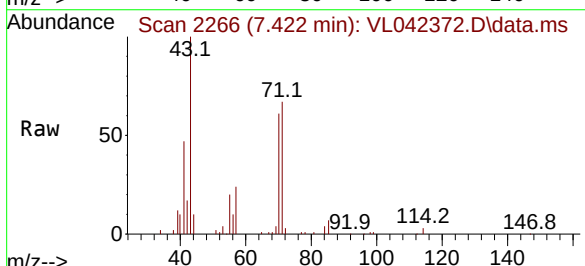
Tgt Ion: 43 Resp: 10664

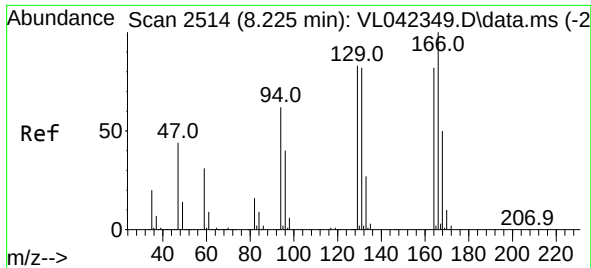
Ion Ratio Lower Upper

43 100

58 19.3 40.2 60.4#

98 0.0 0.1 0.1#

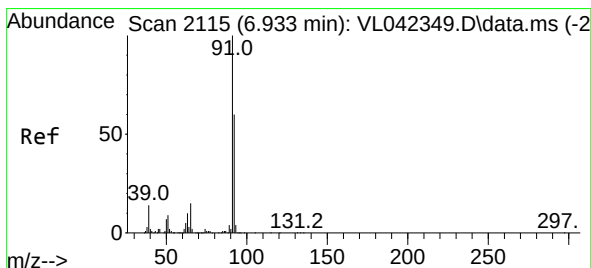
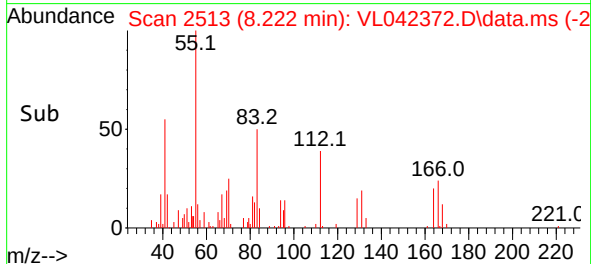
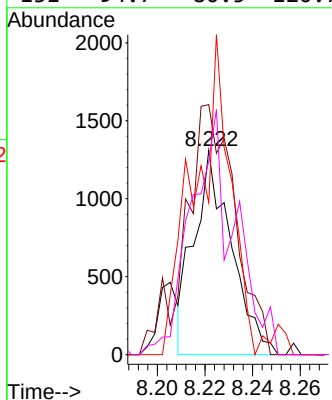
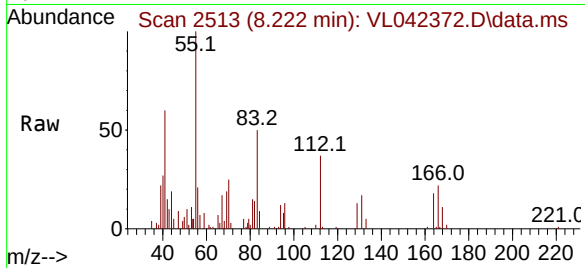




#52
Tetrachloroethene
Concen: 0.107 ppbv
RT: 8.222 min Scan# 2115
Delta R.T. -0.003 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

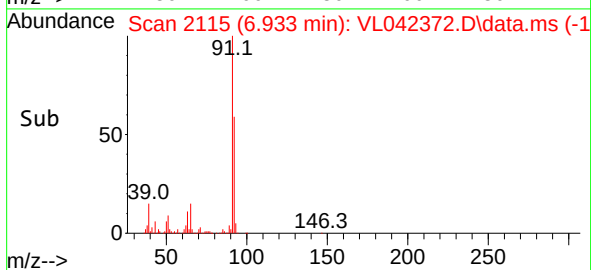
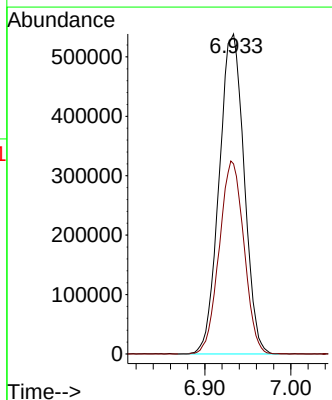
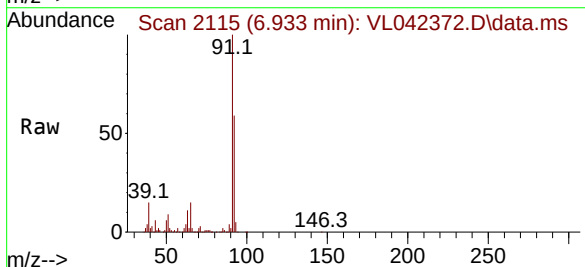
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

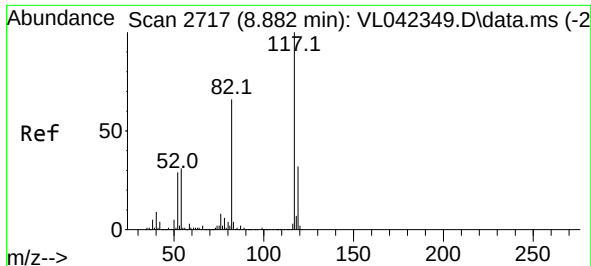
Tgt Ion:164 Resp: 1420
Ion Ratio Lower Upper
164 100
166 122.4 98.2 147.2
129 59.5 81.8 122.8#
131 94.7 80.5 120.7



#53
Toluene
Concen: 26.450 ppbv
RT: 6.933 min Scan# 2115
Delta R.T. 0.000 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion: 91 Resp: 1085281
Ion Ratio Lower Upper
91 100
92 59.7 48.2 72.4

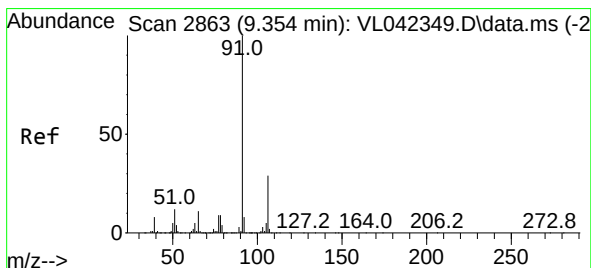
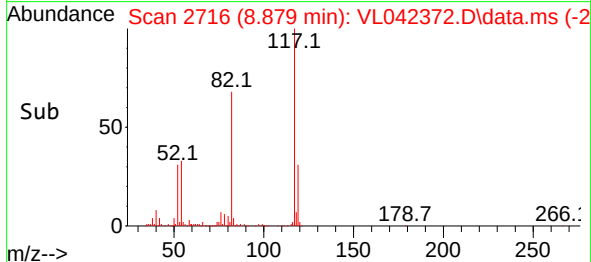
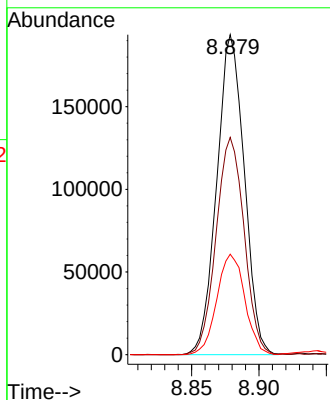
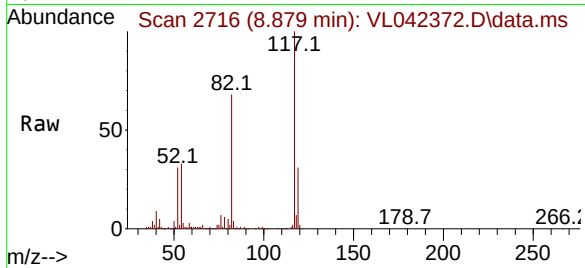




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.879 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

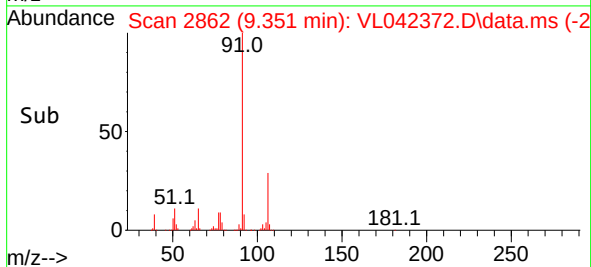
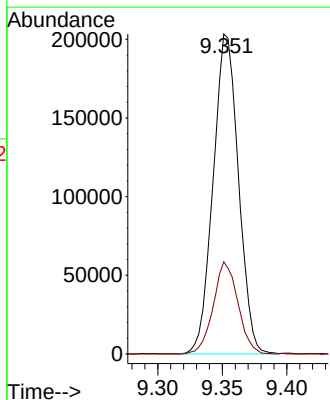
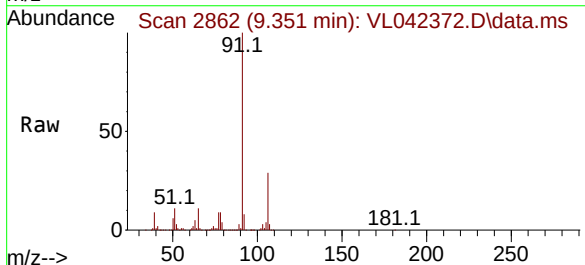
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

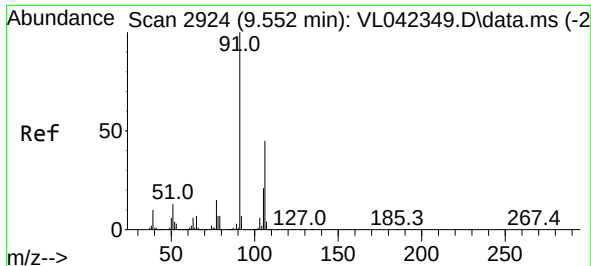
Tgt Ion:117 Resp: 275197
Ion Ratio Lower Upper
117 100
82 69.1 57.8 86.6
119 32.0 25.2 37.8



#58
Ethyl Benzene
Concen: 5.088 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.003 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion: 91 Resp: 277437
Ion Ratio Lower Upper
91 100
106 28.8 23.0 34.4





#59

m/p-Xylene

Concen: 17.539 ppbv

RT: 9.529 min Scan# 2917

Delta R.T. -0.022 min

Lab File: VL042372.D

Acq: 17 Apr 2025 23:26

Instrument :

MSVOA_L

ClientSampleId :

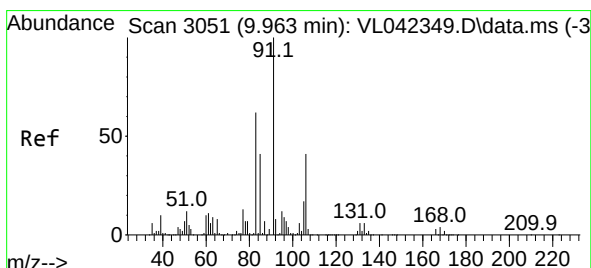
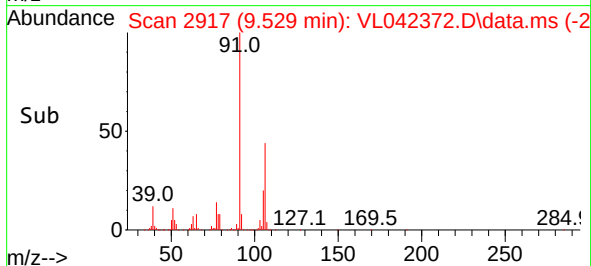
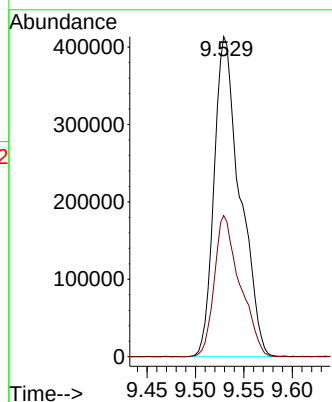
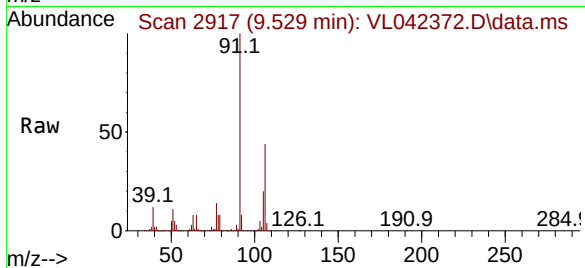
LA-B2-4-03312025

Tgt Ion: 91 Resp: 770401

Ion Ratio Lower Upper

91 100

106 43.7 35.4 53.2



#60

o-Xylene

Concen: 6.906 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. 0.000 min

Lab File: VL042372.D

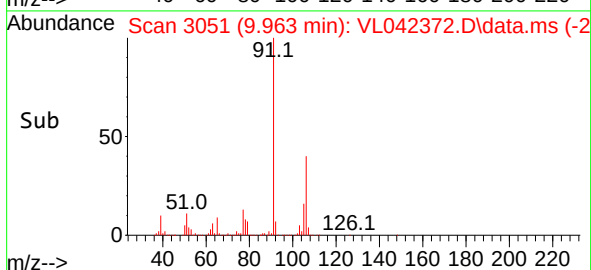
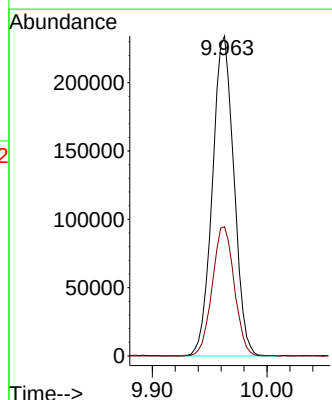
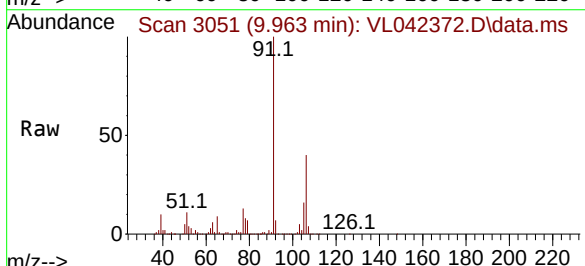
Acq: 17 Apr 2025 23:26

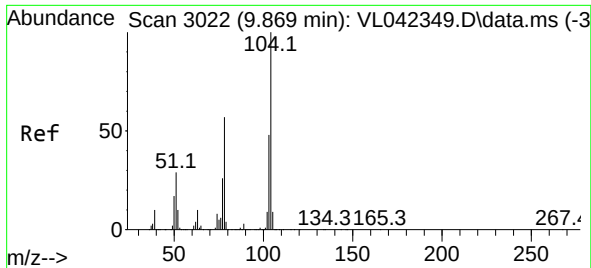
Tgt Ion: 91 Resp: 305451

Ion Ratio Lower Upper

91 100

106 41.3 21.1 63.4





#61

Styrene

Concen: 0.366 ppbv

RT: 9.872 min Scan# 3022

Delta R.T. 0.004 min

Lab File: VL042372.D

Acq: 17 Apr 2025 23:26

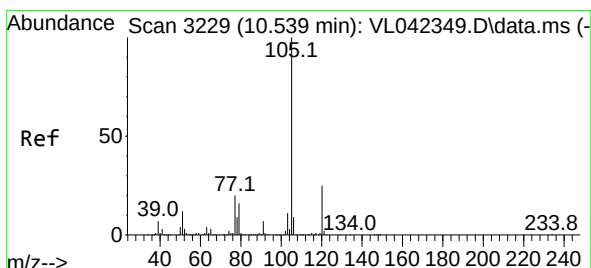
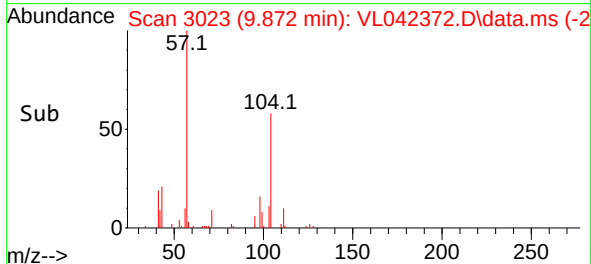
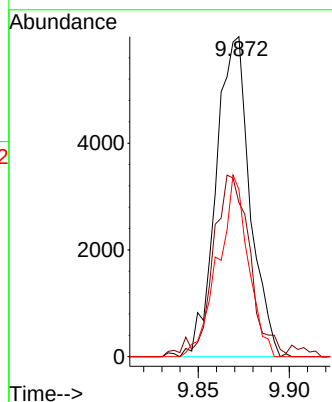
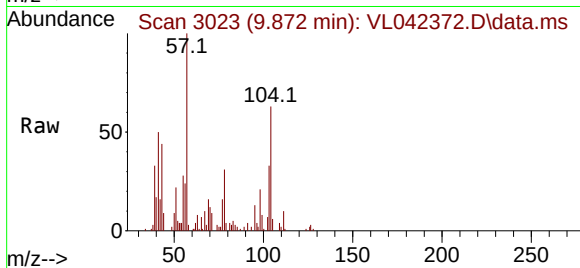
Instrument :

MSVOA_1

ClientSampleId :

IA-B2-4-03312025

Tgt Ion:104	Resp:	7737
Ion Ratio	Lower	Upper
104	100	
78	63.5	44.6 66.8
103	50.7	37.4 56.0



#62

Isopropylbenzene

Concen: 0.499 ppbv

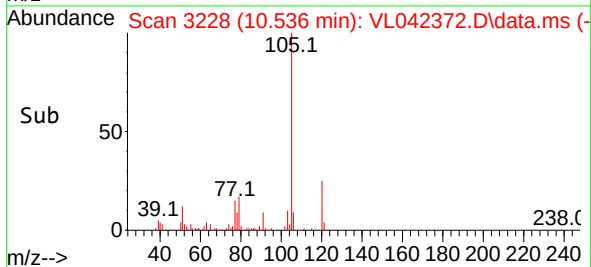
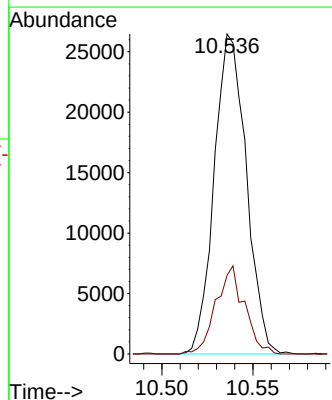
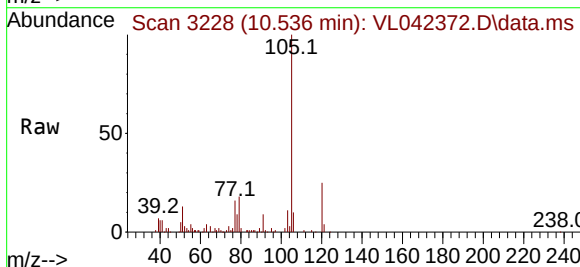
RT: 10.536 min Scan# 3228

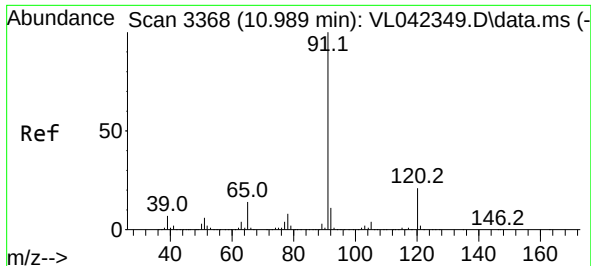
Delta R.T. -0.003 min

Lab File: VL042372.D

Acq: 17 Apr 2025 23:26

Tgt Ion:105	Resp:	32373
Ion Ratio	Lower	Upper
105	100	
120	24.4	19.8 29.8

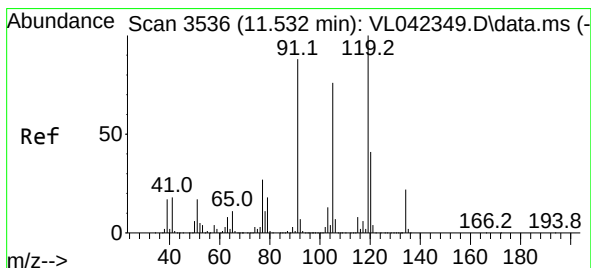
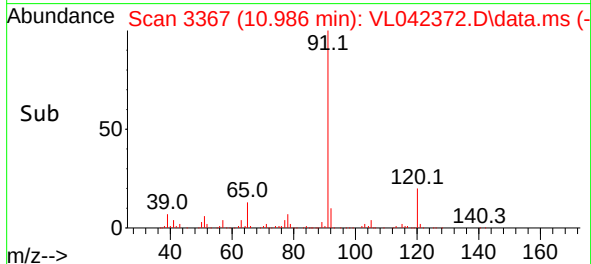
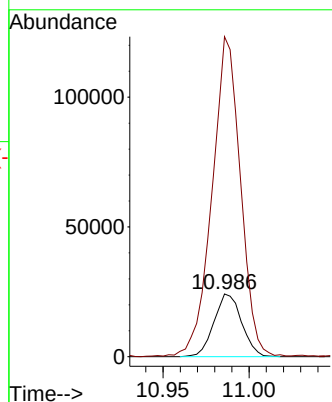
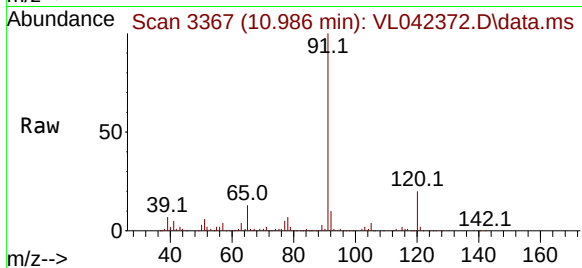




#64
n-propylbenzene
Concen: 1.657 ppbv
RT: 10.986 min Scan# 31
Delta R.T. -0.003 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

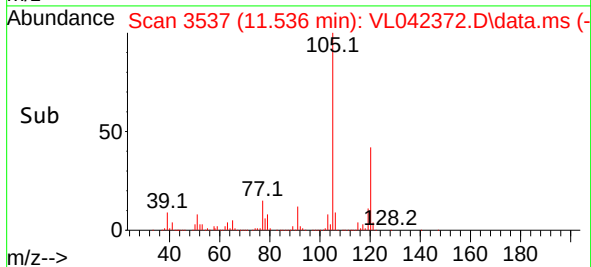
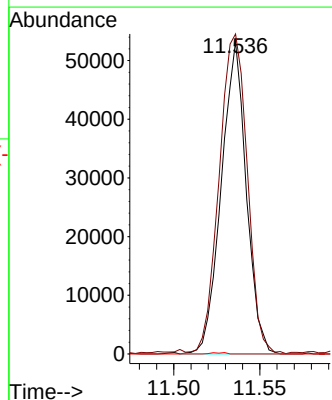
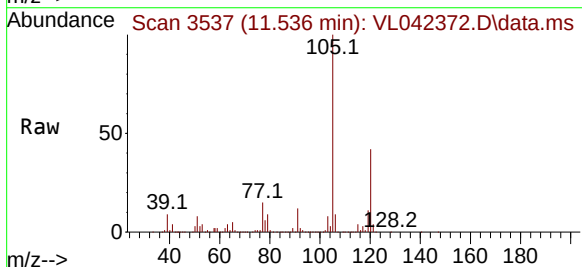
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

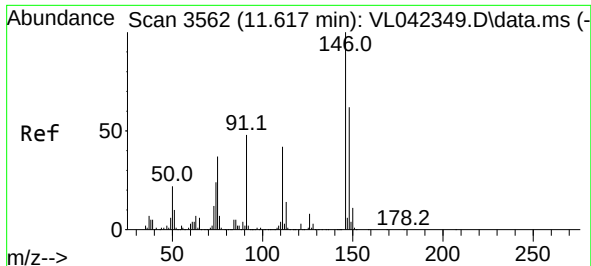
Tgt Ion:120 Resp: 27039
Ion Ratio Lower Upper
120 100
91 526.4 392.4 588.6



#65
tert-Butylbenzene
Concen: 0.900 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. 0.004 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion:119 Resp: 53708
Ion Ratio Lower Upper
119 100
91 114.6 74.6 111.8#
134 0.0 18.8 28.2#

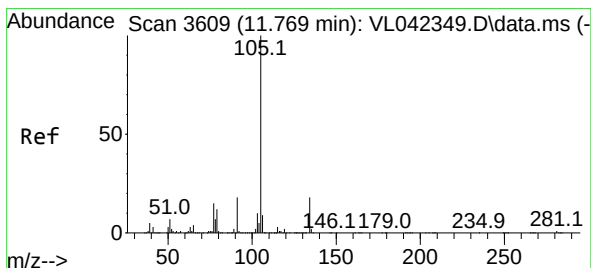
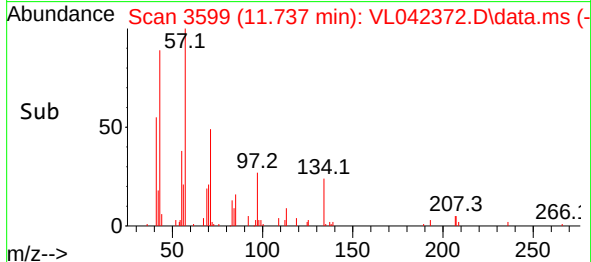
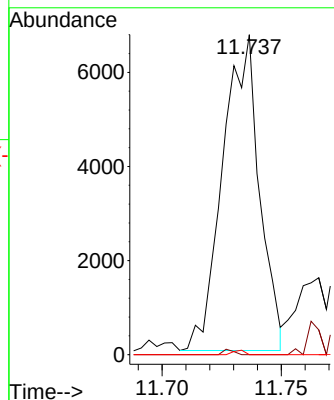
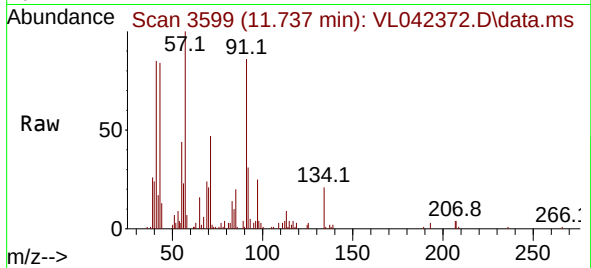




#66
Benzyl Chloride
Concen: 1.094 ppbv
RT: 11.737 min Scan# 31
Delta R.T. 0.120 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

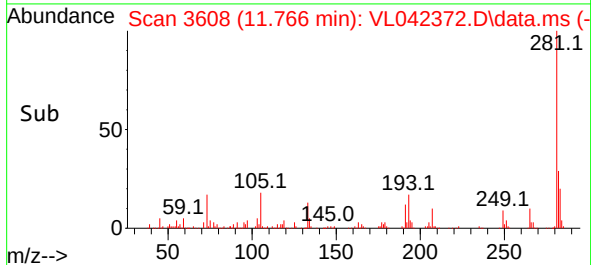
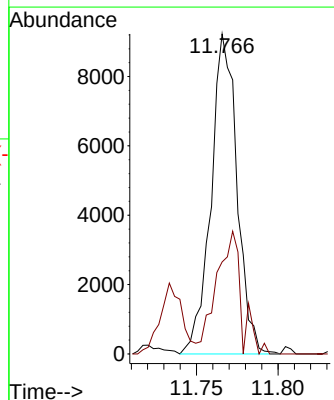
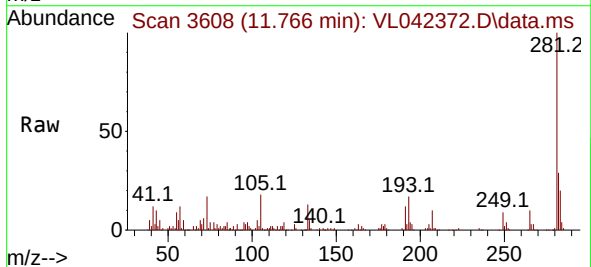
Instrument :
MSVOA_1
ClientSampleId :
IA-B2-4-03312025

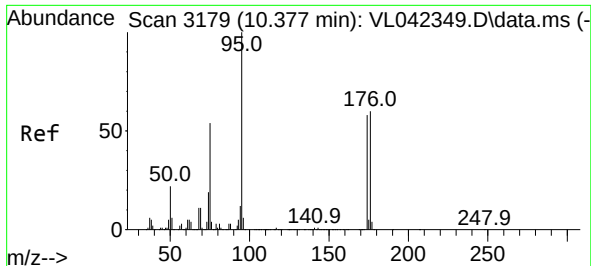
Tgt Ion: 91 Resp: 7178
Ion Ratio Lower Upper
91 100
126 1.8 11.8 17.6#
128 0.4 4.5 6.7#



#67
sec-Butylbenzene
Concen: 0.123 ppbv
RT: 11.766 min Scan# 3608
Delta R.T. -0.003 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion: 105 Resp: 10233
Ion Ratio Lower Upper
105 100
134 36.2 14.6 21.8#

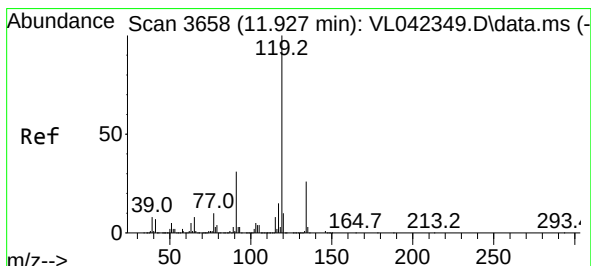
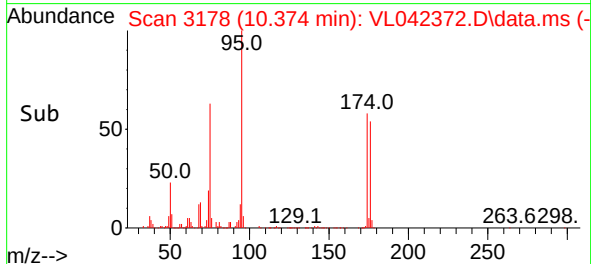
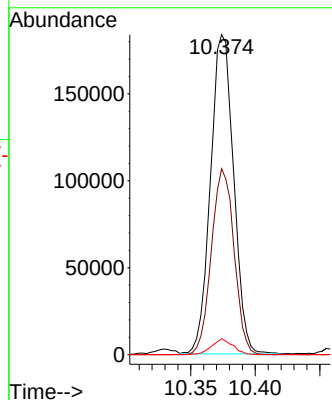
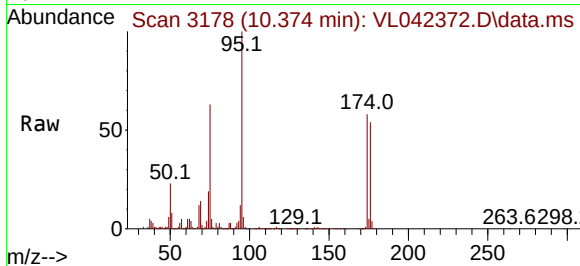




#68
1-Bromo-4-Fluorobenzene
Concen: 10.137 ppbv
RT: 10.374 min Scan# 3179
Delta R.T. -0.003 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

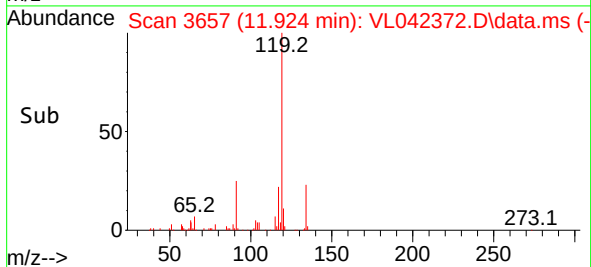
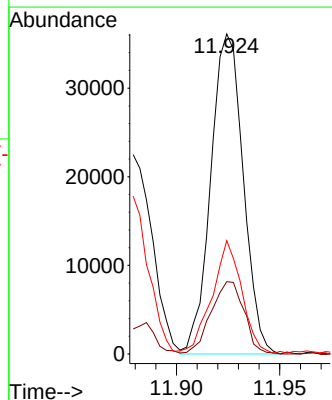
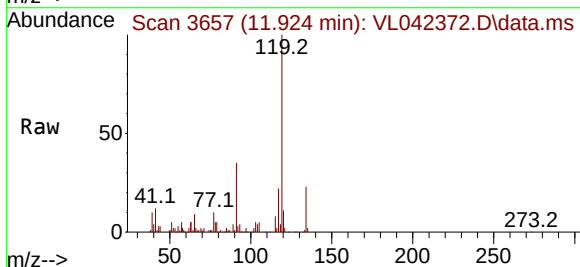
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

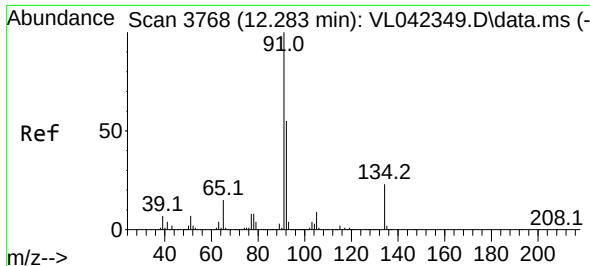
Tgt Ion: 95 Resp: 229240
Ion Ratio Lower Upper
95 100
174 57.0 48.5 72.7
175 4.6 3.7 5.5



#69
p-Isopropyltoluene
Concen: 0.547 ppbv
RT: 11.924 min Scan# 3657
Delta R.T. -0.003 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion: 119 Resp: 39473
Ion Ratio Lower Upper
119 100
134 23.0 20.0 30.0
91 33.9 24.4 36.6





#70

n-Butylbenzene

Concen: 0.289 ppbv

RT: 12.280 min Scan# 31

Delta R.T. -0.003 min

Lab File: VL042372.D

Acq: 17 Apr 2025 23:26

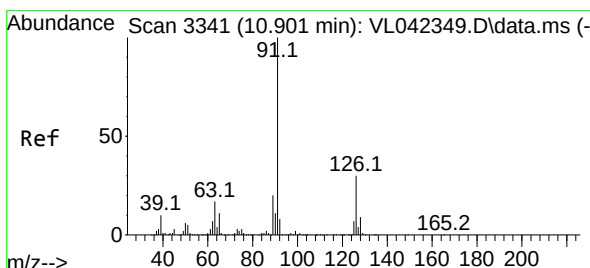
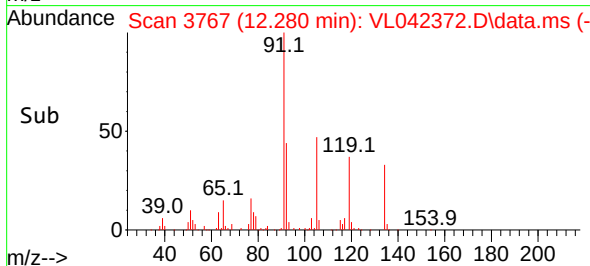
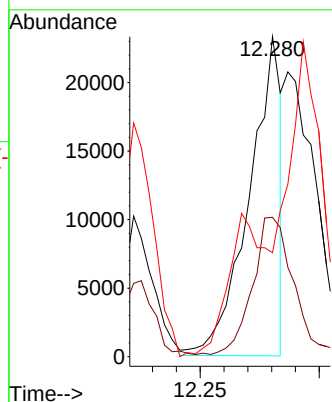
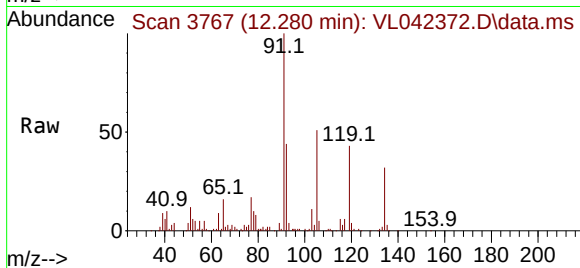
Instrument :

MSVOA_L

ClientSampleId :

IA-B2-4-03312025

Tgt Ion:	91	Resp:	21674
Ion	Ratio	Lower	Upper
91	100		
92	57.1	44.2	66.4
134	0.0	18.2	27.4



#71

2-Chlorotoluene

Concen: 1.381 ppbv

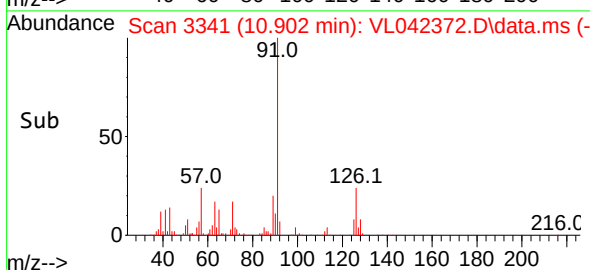
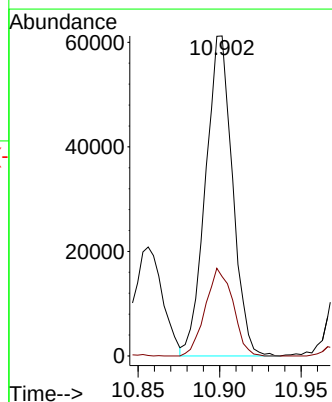
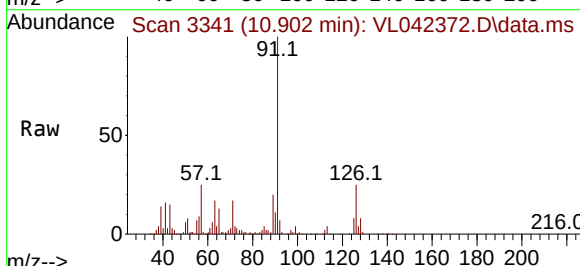
RT: 10.902 min Scan# 3341

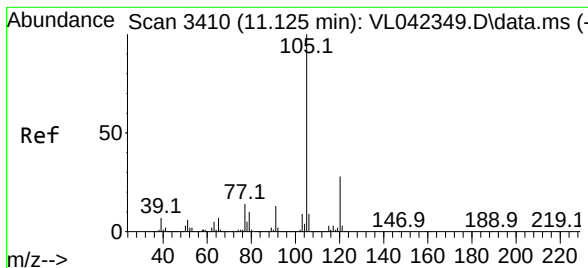
Delta R.T. 0.000 min

Lab File: VL042372.D

Acq: 17 Apr 2025 23:26

Tgt Ion:	91	Resp:	70326
Ion	Ratio	Lower	Upper
91	100		
126	28.3	11.4	45.4

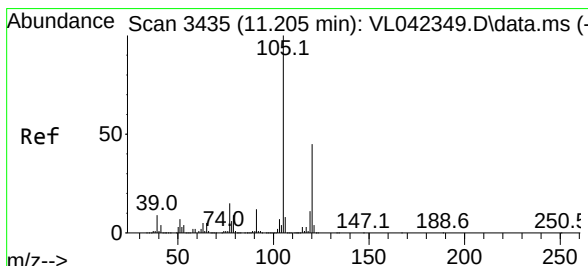
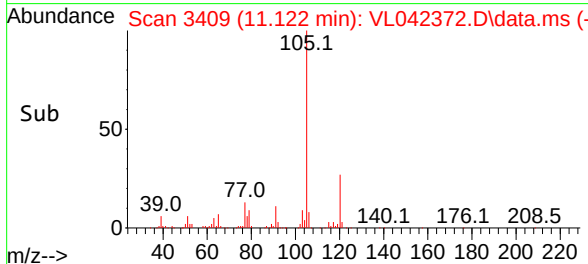
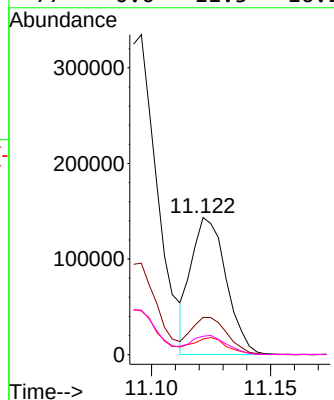
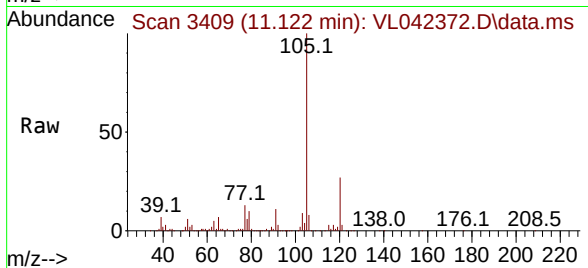




#72
4-Ethyltoluene
Concen: 2.714 ppbv
RT: 11.122 min Scan# 3410
Delta R.T. -0.003 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

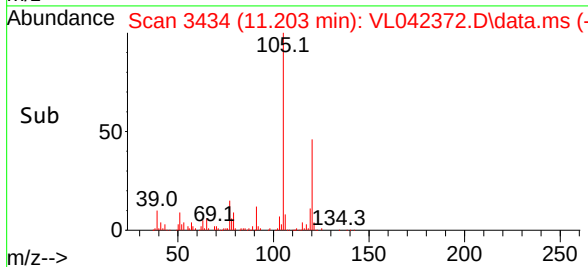
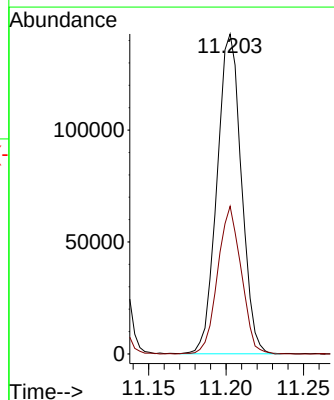
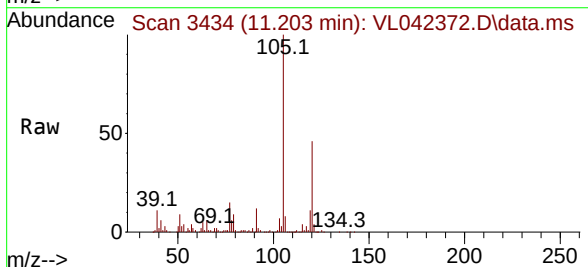
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025

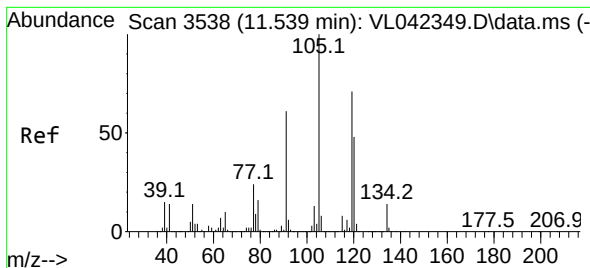
Tgt Ion:105 Resp: 146733
Ion Ratio Lower Upper
105 100
120 0.0 23.2 34.8#
91 0.0 10.4 15.6#
77 0.0 11.3 16.9#



#73
1,3,5-Trimethylbenzene
Concen: 3.271 ppbv
RT: 11.203 min Scan# 3434
Delta R.T. -0.003 min
Lab File: VL042372.D
Acq: 17 Apr 2025 23:26

Tgt Ion:105 Resp: 156177
Ion Ratio Lower Upper
105 100
120 46.1 35.6 53.4





#74

1,2,4-Trimethylbenzene

Concen: 9.018 ppbv

RT: 11.536 min Scan# 3538

Delta R.T. -0.003 min

Lab File: VL042372.D

Acq: 17 Apr 2025 23:26

Instrument :

MSVOA_L

ClientSampleId :

IA-B2-4-03312025

Tgt Ion:105 Resp: 502862

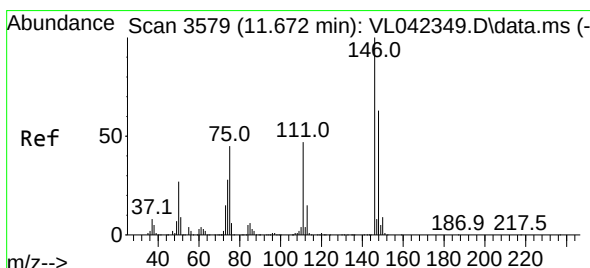
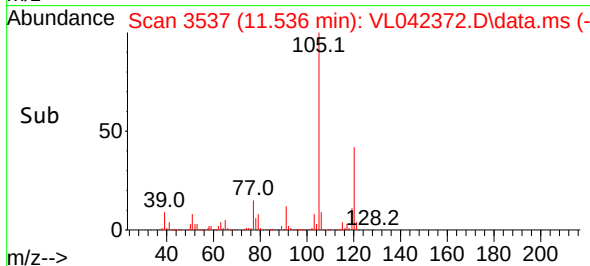
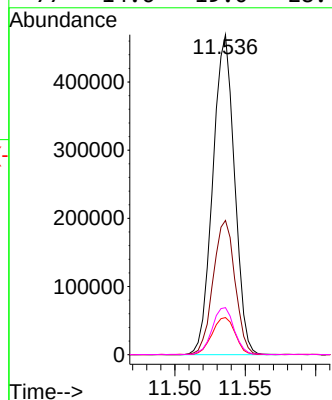
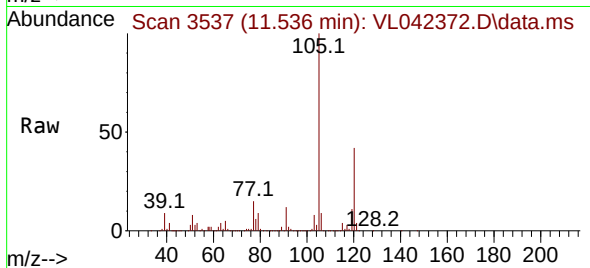
Ion Ratio Lower Upper

105 100

120 42.0 38.1 57.1

91 11.6 48.8 73.2#

77 14.6 19.0 28.4#



#76

1,4-Dichlorobenzene

Concen: 0.362 ppbv

RT: 11.669 min Scan# 3578

Delta R.T. -0.003 min

Lab File: VL042372.D

Acq: 17 Apr 2025 23:26

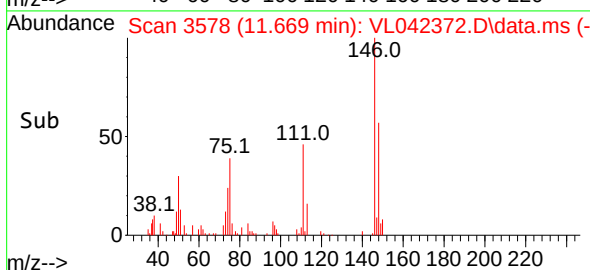
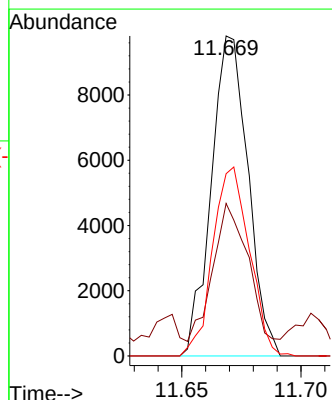
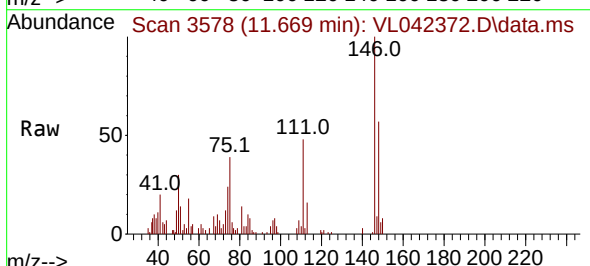
Tgt Ion:146 Resp: 10548

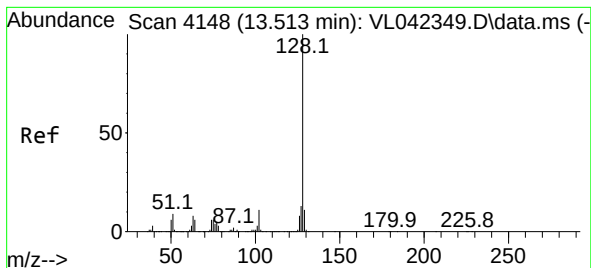
Ion Ratio Lower Upper

146 100

111 73.6 24.2 72.6#

148 58.9 32.1 96.5





#79

Naphthalene

Concen: 0.576 ppbv

RT: 13.513 min Scan# 4148

Delta R.T. 0.000 min

Lab File: VL042372.D

Acq: 17 Apr 2025 23:26

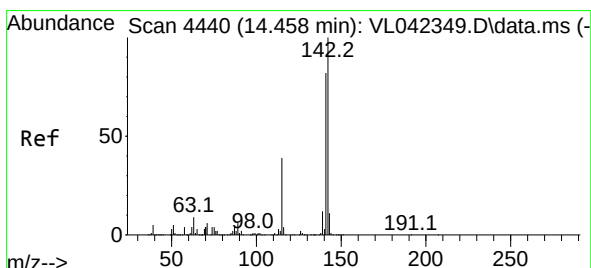
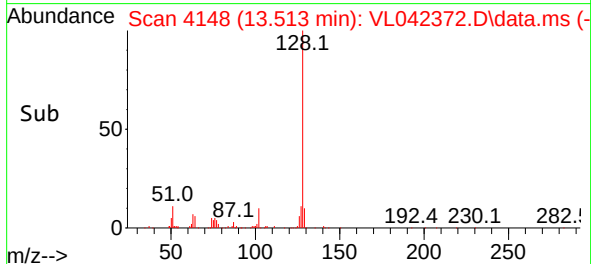
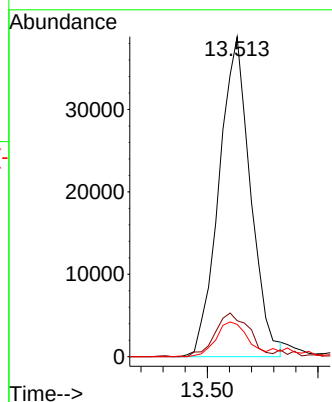
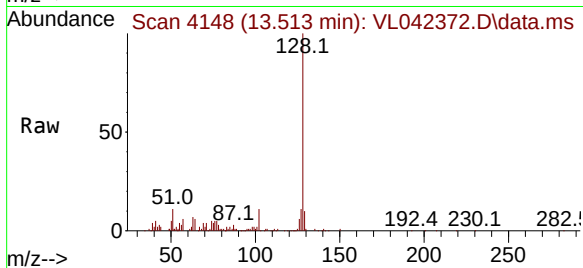
Instrument :

MSVOA_L

ClientSampleId :

IA-B2-4-03312025

Tgt Ion:	128	Resp:	38387
Ion Ratio	Lower	Upper	
128	100		
127	11.3	10.6	15.8
129	9.9	8.6	12.8



#80

Naphthalene, 2-methyl-

Concen: 0.209 ppbv

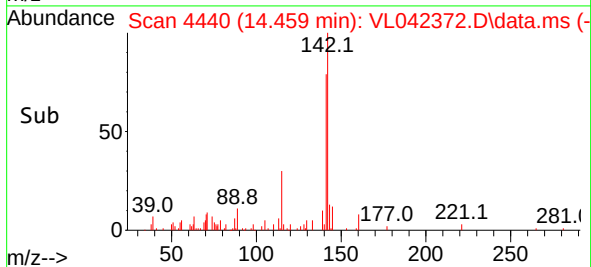
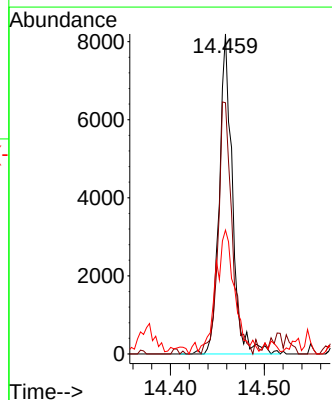
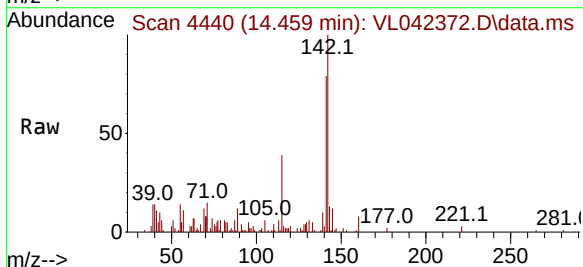
RT: 14.459 min Scan# 4440

Delta R.T. 0.000 min

Lab File: VL042372.D

Acq: 17 Apr 2025 23:26

Tgt Ion:	142	Resp:	7927
Ion Ratio	Lower	Upper	
142	100		
141	82.5	66.8	100.2
115	61.2	33.4	50.2



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042373.D
 Acq On : 17 Apr 2025 23:57
 Operator : SY/MD
 Sample : Q1726-07DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-4-03312025DL

Quant Time: Apr 18 02:47:24 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	2.784	49	107602	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	303479	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	266154	10.000	ppbv	0.00

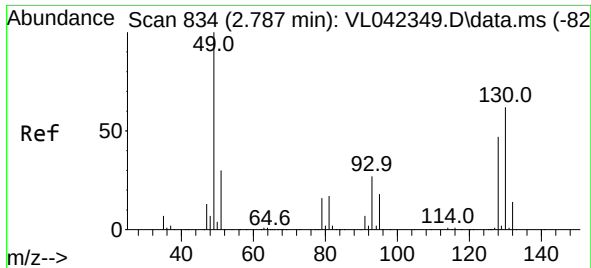
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	220060	10.062	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.600%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	929	0.049	ppbv #	82
3) Chlorodifluoromethane	1.803	51	873	0.048	ppbv	93
4) Chloromethane	1.531	50	570	0.076	ppbv #	84
9) Propene	1.557	41	5479	0.665	ppbv	92
10) Heptane	4.972	43	2011	0.087	ppbv #	1
13) Ethanol	1.719	45	24762	18.897	ppbv	74
15) Acetone	1.832	43	515571	29.269	ppbv	99
16) 1,3-Butadiene	1.599	39	449	0.053	ppbv #	1
17) tert-Butyl alcohol	2.043	59	992	0.045	ppbv #	1
19) Isopropyl Alcohol	1.884	45	18557	1.896	ppbv #	1
20) Methylene Chloride	2.059	84	4971	0.721	ppbv #	88
23) Vinyl Acetate	2.451	43	991	0.139	ppbv #	83
26) Hexane	2.823	57	8236	0.469	ppbv #	35
30) Cyclohexane	3.852	84	863	0.061	ppbv #	19
34) 2-Butanone	2.557	43	2252	0.094	ppbv	97
36) Benzene	3.648	78	1213	0.037	ppbv #	70
39) 1,2-Dichloropropane	3.956	63	80554	6.604	ppbv #	24
44) 2,2,4-Trimethylpentane	4.632	57	16572	0.293	ppbv #	30
53) Toluene	6.927	91	53637	1.365	ppbv	97
58) Ethyl Benzene	9.348	91	13474	0.256	ppbv	99
59) m/p-Xylene	9.529	91	30753	0.724	ppbv #	83
60) o-Xylene	9.960	91	14506	0.339	ppbv	98
64) n-propylbenzene	10.986	120	1406	0.089	ppbv	96
65) tert-Butylbenzene	11.539	119	3065	0.053	ppbv #	64
71) 2-Chlorotoluene	10.902	91	3618	0.073	ppbv	93
72) 4-Ethyltoluene	11.122	105	6684	0.128	ppbv #	56
73) 1,3,5-Trimethylbenzene	11.199	105	8296	0.180	ppbv	95
74) 1,2,4-Trimethylbenzene	11.536	105	25240	0.468	ppbv #	62

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

Quant Time: Apr 18 02:47:24 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

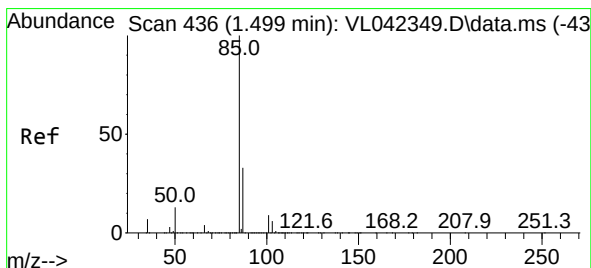
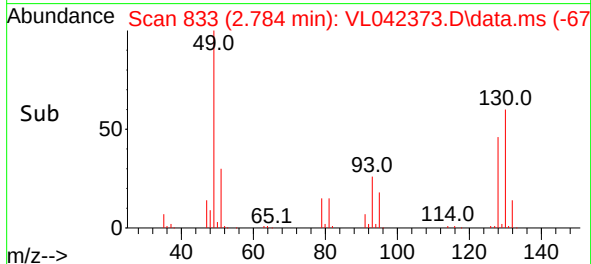
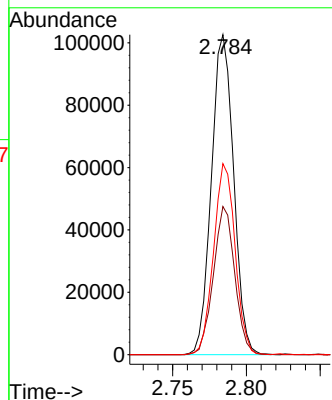
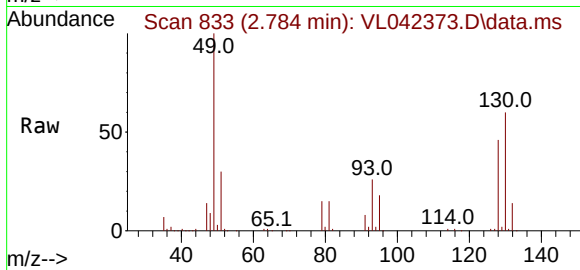




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

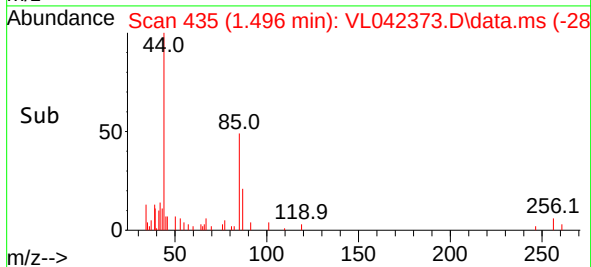
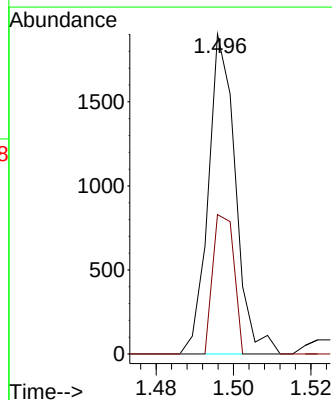
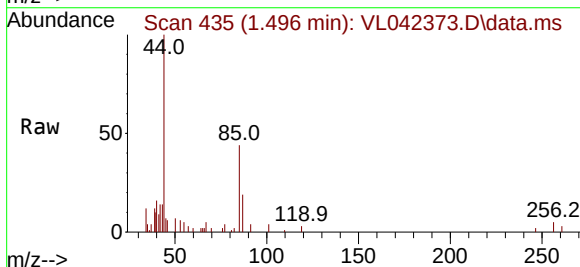
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL

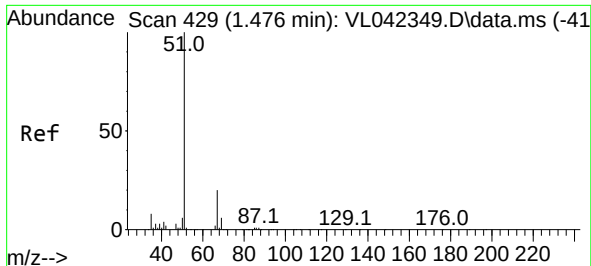
Tgt Ion: 49 Resp: 107602
Ion Ratio Lower Upper
49 100
128 44.6 22.8 68.4
130 58.0 29.3 88.0



#2
Dichlorodifluoromethane
Concen: 0.049 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

Tgt Ion: 85 Resp: 929
Ion Ratio Lower Upper
85 100
87 43.5 26.6 39.8#

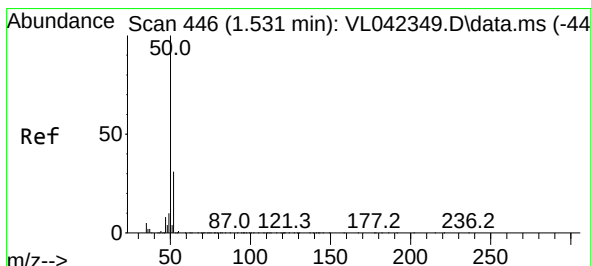
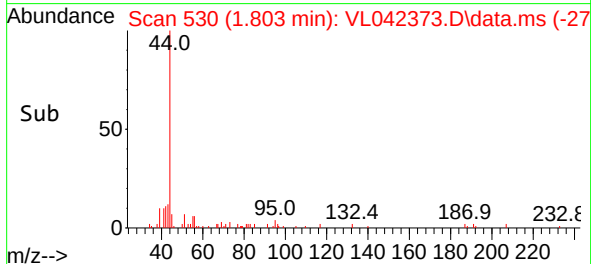
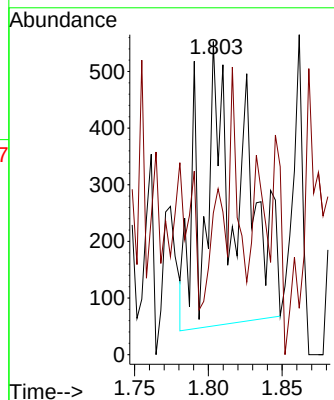
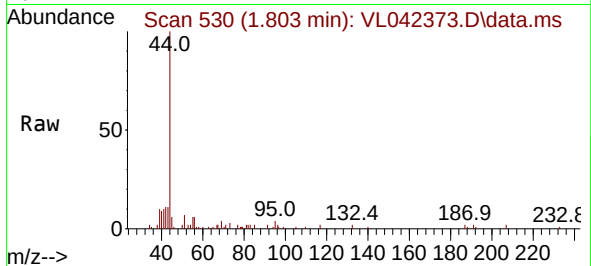




#3
Chlorodifluoromethane
Concen: 0.048 ppbv
RT: 1.803 min Scan# 51
Delta R.T. 0.327 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

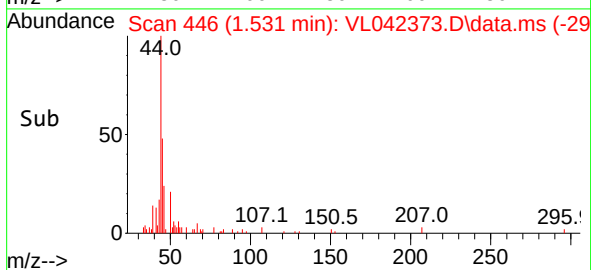
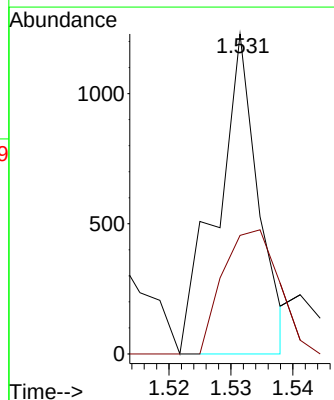
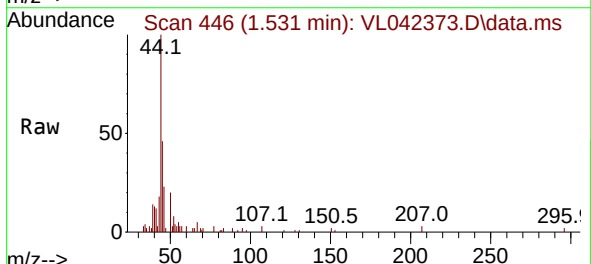
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL

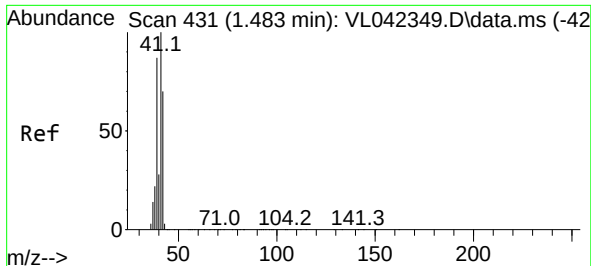
Tgt Ion: 51 Resp: 873
Ion Ratio Lower Upper
51 100
67 23.7 16.2 24.4



#4
Chloromethane
Concen: 0.076 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

Tgt Ion: 50 Resp: 570
Ion Ratio Lower Upper
50 100
52 39.5 24.7 37.1#





#9

Propene

Concen: 0.665 ppbv

RT: 1.557 min Scan# 41

Delta R.T. 0.075 min

Lab File: VL042373.D

Acq: 17 Apr 2025 23:57

Instrument :

MSVOA_L

ClientSampleId :

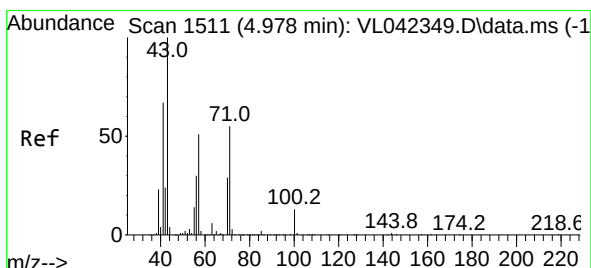
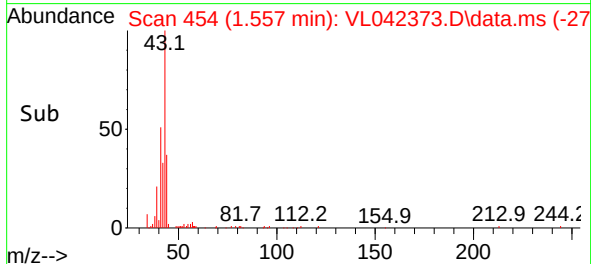
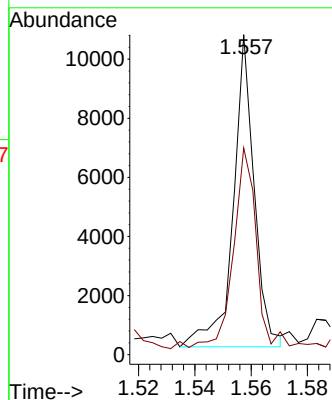
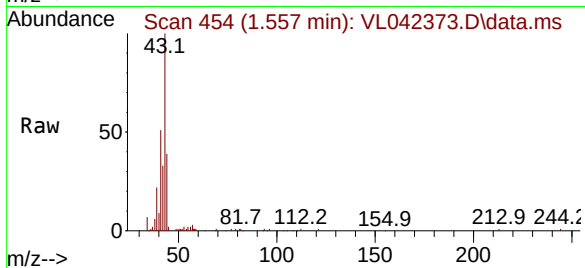
IA-B2-4-03312025DL

Tgt Ion: 41 Resp: 5479

Ion Ratio Lower Upper

41 100

42 63.9 56.2 84.4



#10

Heptane

Concen: 0.087 ppbv

RT: 4.972 min Scan# 1509

Delta R.T. -0.006 min

Lab File: VL042373.D

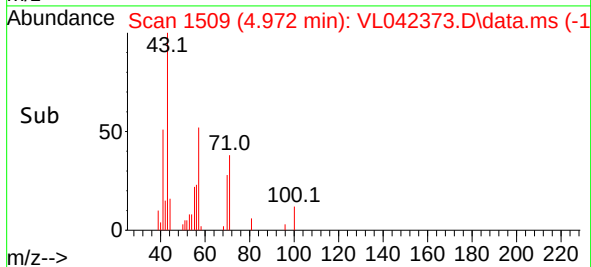
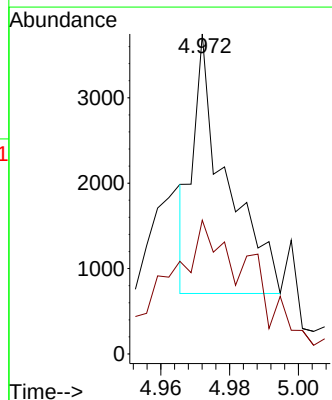
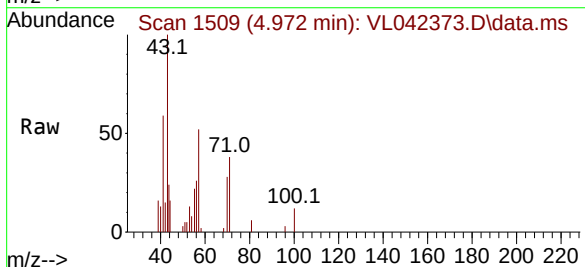
Acq: 17 Apr 2025 23:57

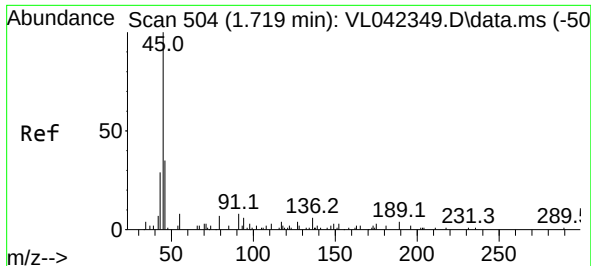
Tgt Ion: 43 Resp: 2011

Ion Ratio Lower Upper

43 100

57 148.6 39.9 59.9#

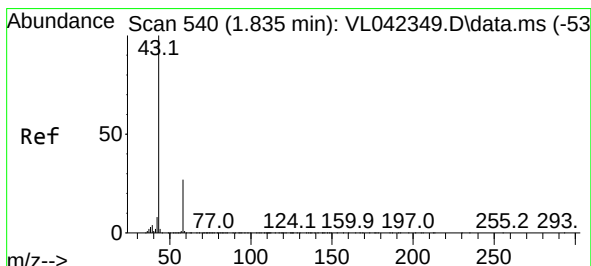
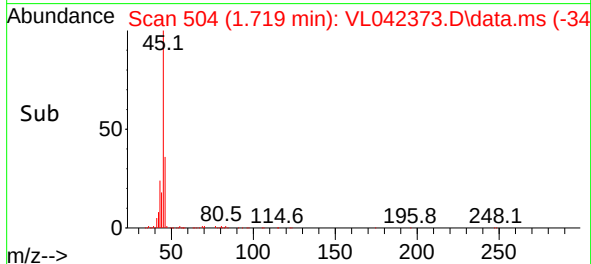
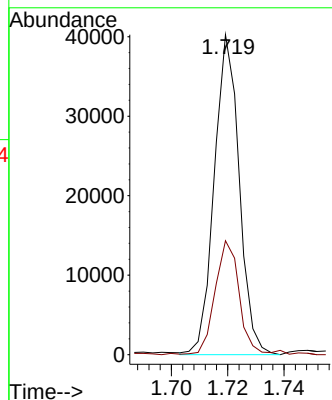
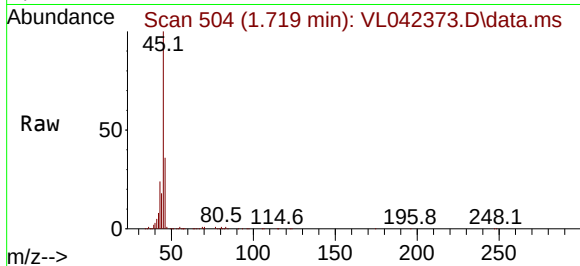




#13
Ethanol
Concen: 18.897 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

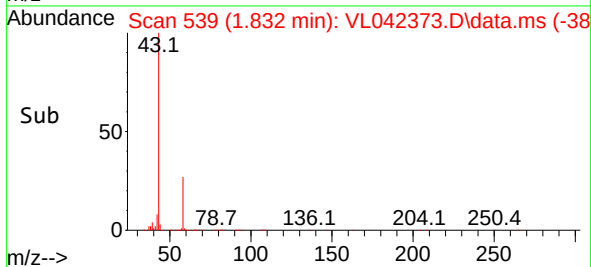
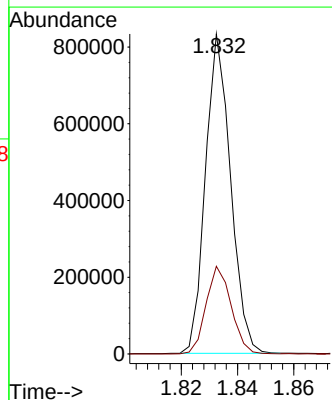
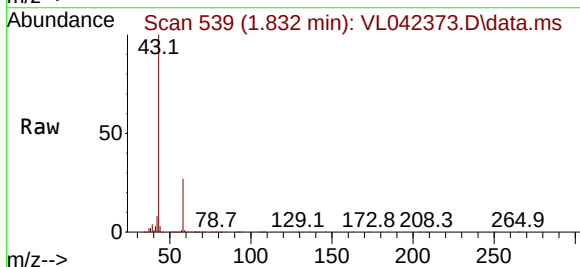
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL

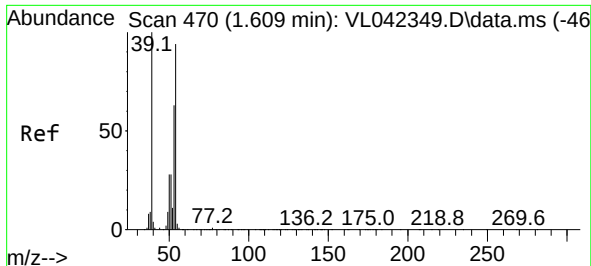
Tgt Ion: 45 Resp: 24762
Ion Ratio Lower Upper
45 100
46 35.9 21.9 87.7



#15
Acetone
Concen: 29.269 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.003 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

Tgt Ion: 43 Resp: 515571
Ion Ratio Lower Upper
43 100
58 27.6 22.4 33.6

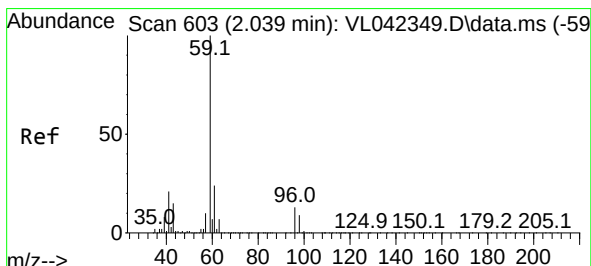
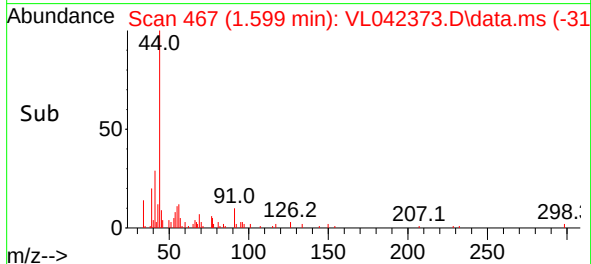
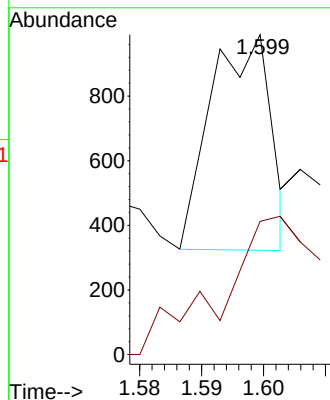
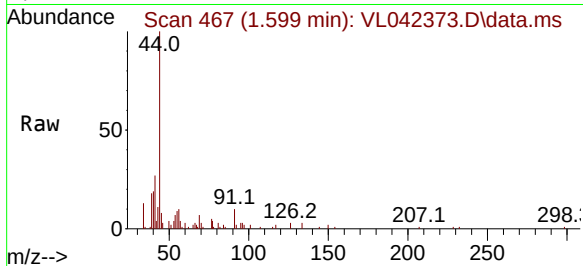




#16
1,3-Butadiene
Concen: 0.053 ppbv
RT: 1.599 min Scan# 41
Delta R.T. -0.009 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

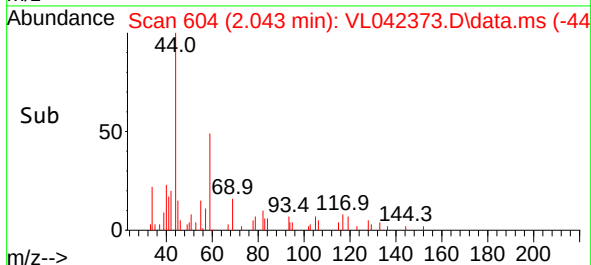
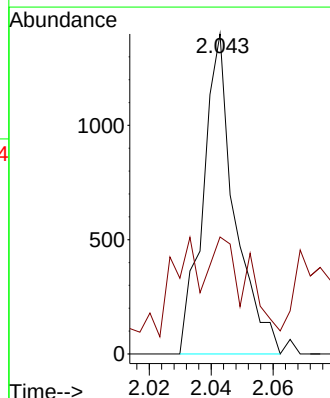
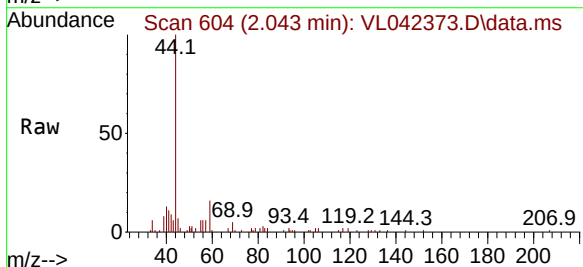
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL

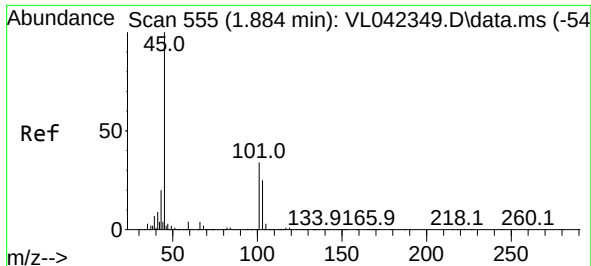
Tgt Ion: 39 Resp: 449
Ion Ratio Lower Upper
39 100
54 223.2 64.9 97.3#



#17
tert-Butyl alcohol
Concen: 0.045 ppbv
RT: 2.043 min Scan# 604
Delta R.T. 0.004 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

Tgt Ion: 59 Resp: 992
Ion Ratio Lower Upper
59 100
57 138.0 8.7 13.1#

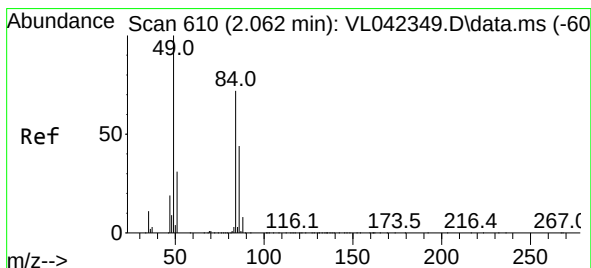
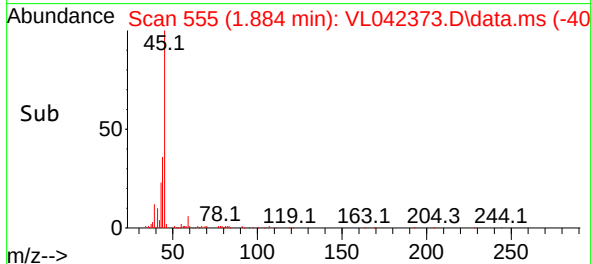
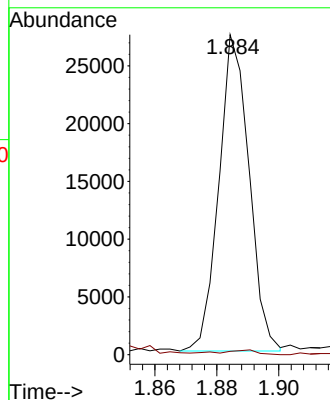
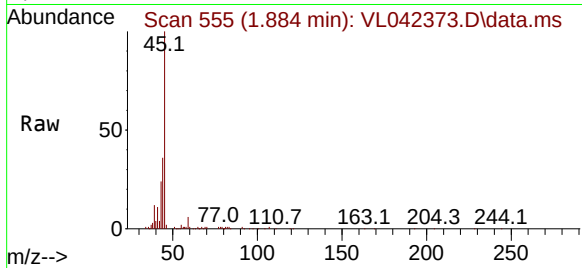




#19
Isopropyl Alcohol
Concen: 1.896 ppbv
RT: 1.884 min Scan# 511
Delta R.T. 0.000 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

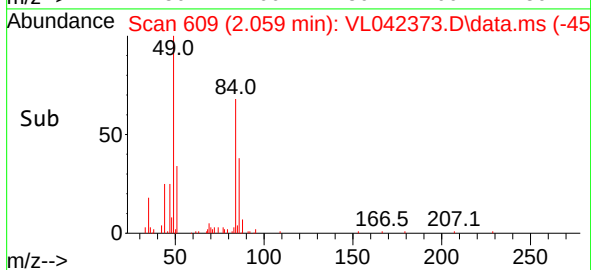
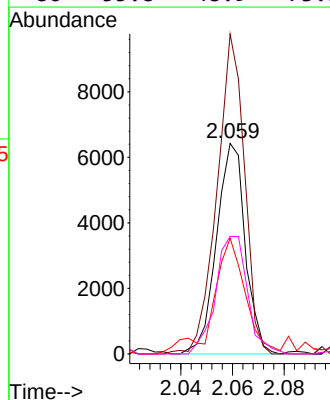
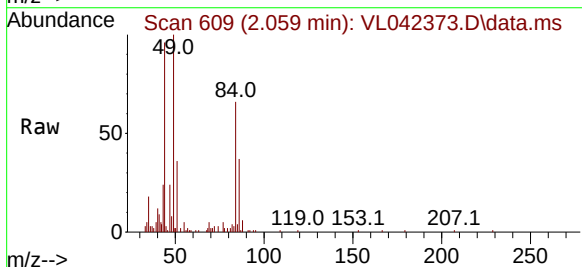
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL

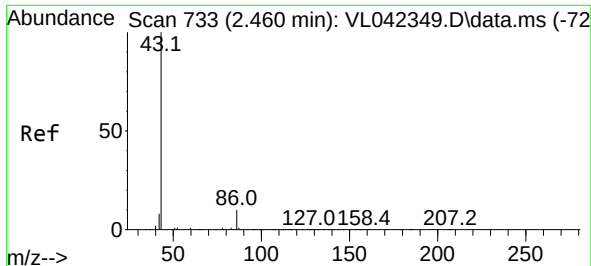
Tgt Ion: 45 Resp: 18557
Ion Ratio Lower Upper
45 100
58 767.1 34.5 51.7#



#20
Methylene Chloride
Concen: 0.721 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.003 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

Tgt Ion: 84 Resp: 4971
Ion Ratio Lower Upper
84 100
49 155.3 111.6 167.4
51 53.3 35.1 52.7#
86 55.8 48.9 73.3

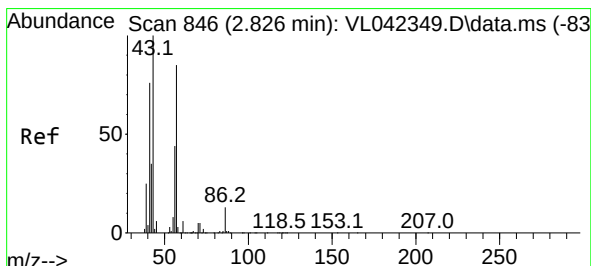
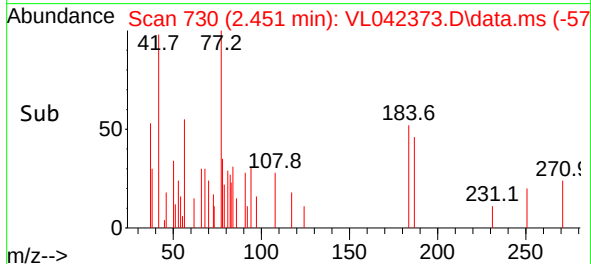
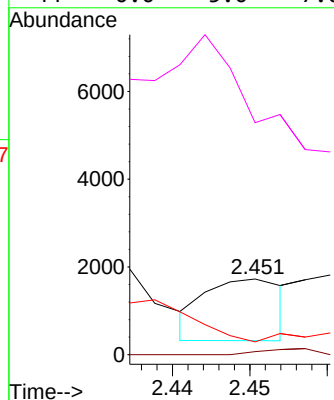
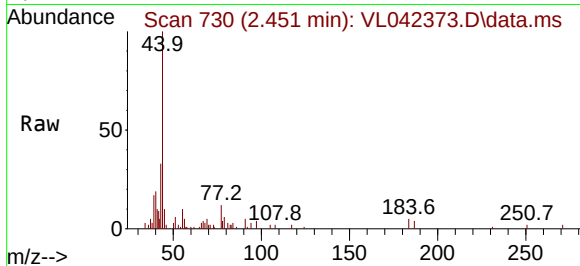




#23
 Vinyl Acetate
 Concen: 0.139 ppbv
 RT: 2.451 min Scan# 731
 Delta R.T. -0.009 min
 Lab File: VL042373.D
 Acq: 17 Apr 2025 23:57

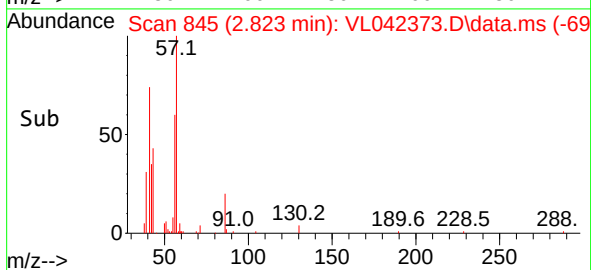
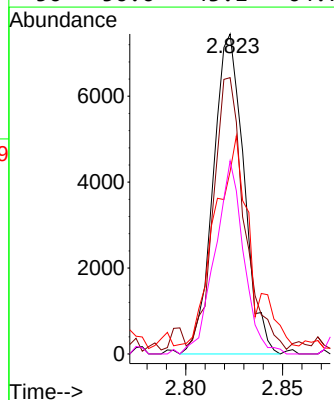
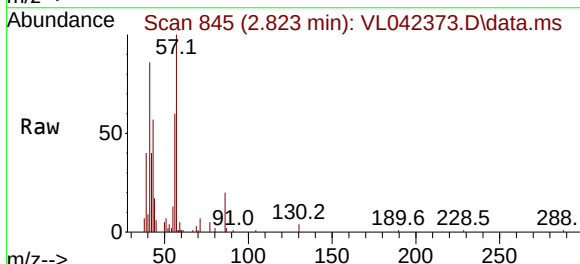
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-4-03312025DL

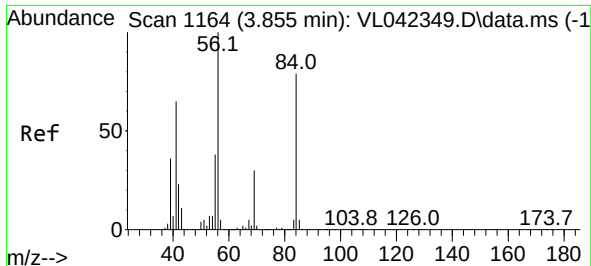
Tgt Ion:	43	Resp:	991
Ion	Ratio	Lower	Upper
43	100		
86	9.6	6.5	9.7
42	0.0	7.8	11.8#
44	0.0	5.0	7.6#



#26
 Hexane
 Concen: 0.469 ppbv
 RT: 2.823 min Scan# 845
 Delta R.T. -0.003 min
 Lab File: VL042373.D
 Acq: 17 Apr 2025 23:57

Tgt Ion:	57	Resp:	8236
Ion	Ratio	Lower	Upper
57	100		
41	86.1	77.9	116.9
43	86.9	208.4	312.6#
56	56.6	43.1	64.7

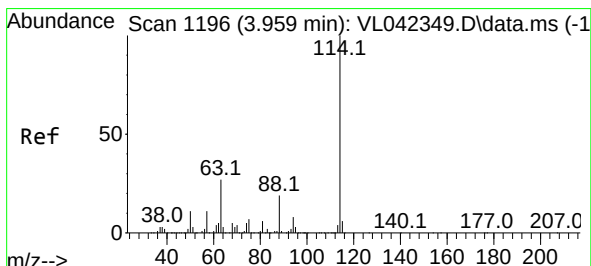
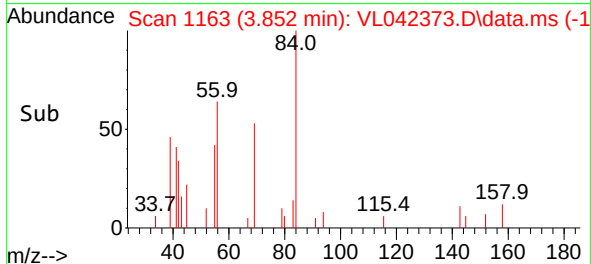
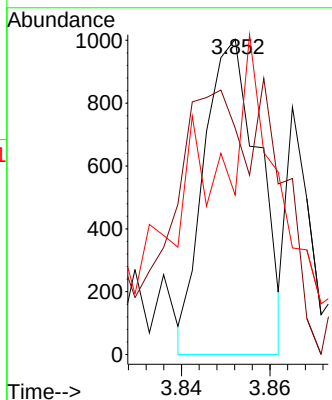
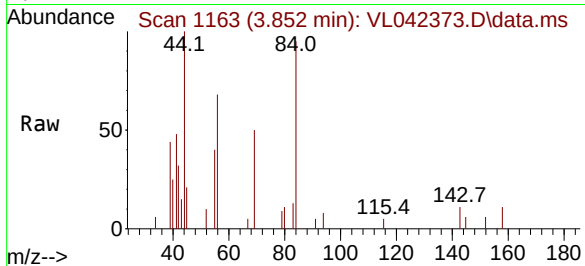




#30
Cyclohexane
Concen: 0.061 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. -0.003 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

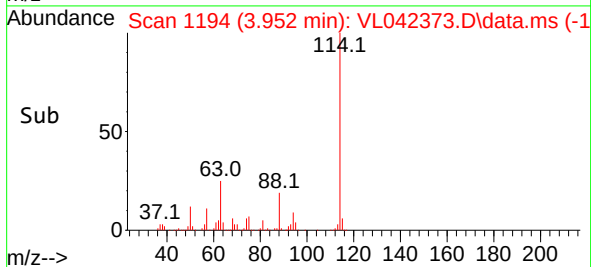
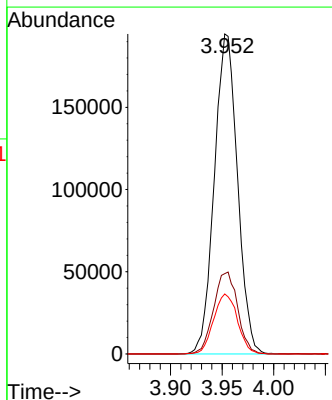
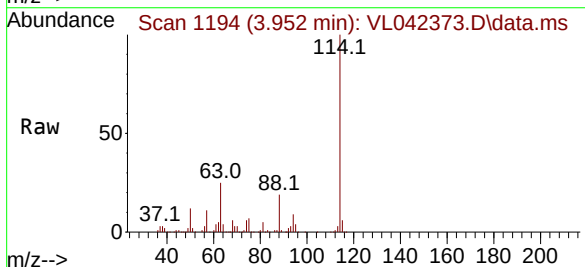
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL

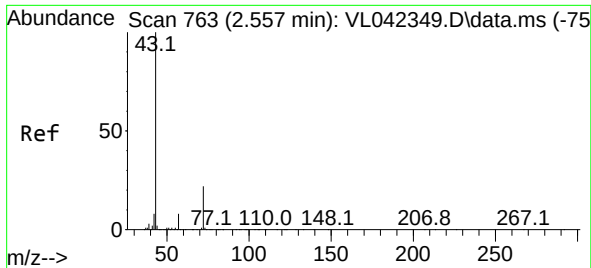
Tgt Ion: 84 Resp: 863
Ion Ratio Lower Upper
84 100
56 184.8 101.0 151.4#
41 198.4 67.4 101.0#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. -0.006 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

Tgt Ion: 114 Resp: 303479
Ion Ratio Lower Upper
114 100
63 26.5 21.8 32.6
88 19.4 15.5 23.3

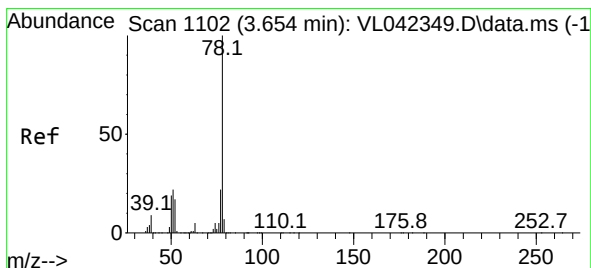
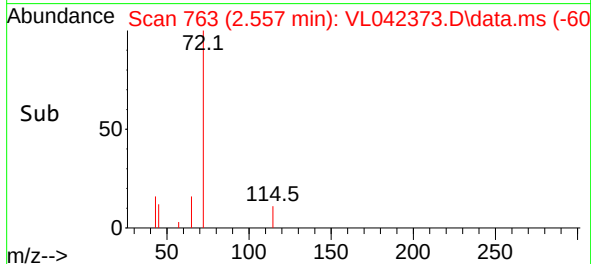
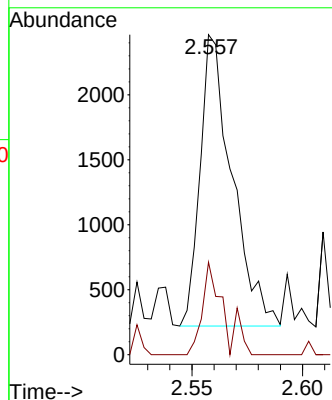
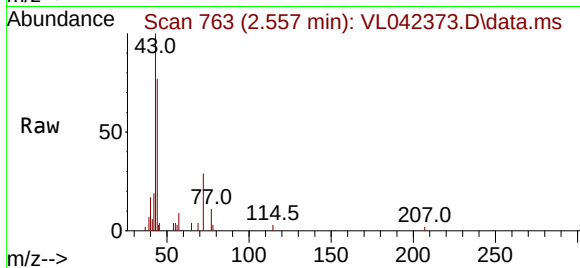




#34
2-Butanone
Concen: 0.094 ppbv
RT: 2.557 min Scan# 763
Delta R.T. 0.000 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

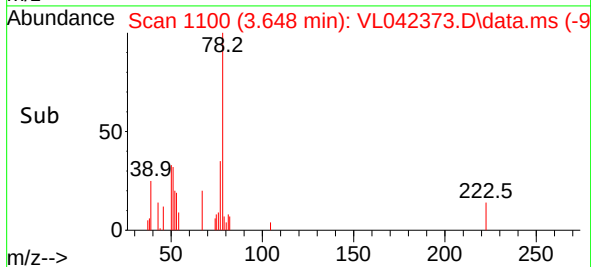
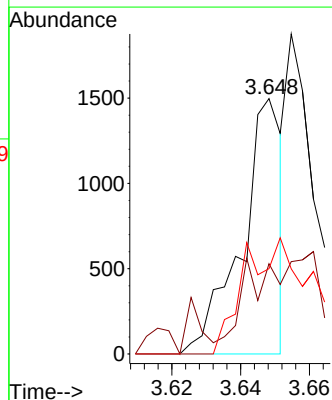
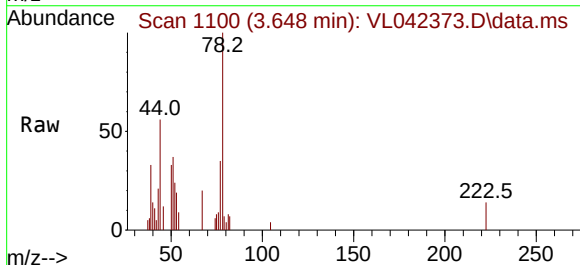
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL

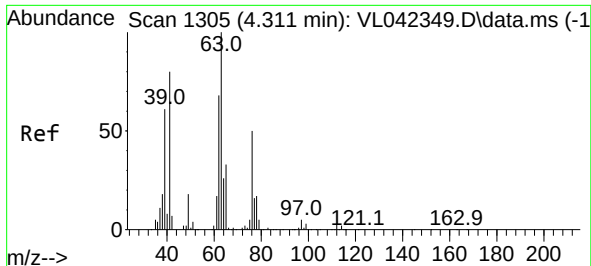
Tgt Ion: 43 Resp: 2252
Ion Ratio Lower Upper
43 100
72 21.0 18.2 27.2



#36
Benzene
Concen: 0.037 ppbv
RT: 3.648 min Scan# 1100
Delta R.T. -0.006 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

Tgt Ion: 78 Resp: 1213
Ion Ratio Lower Upper
78 100
77 35.3 17.4 26.0#
50 33.4 15.5 23.3#





#39

1,2-Dichloropropane

Concen: 6.604 ppbv

RT: 3.956 min Scan# 1195

Delta R.T. -0.356 min

Lab File: VL042373.D

Acq: 17 Apr 2025 23:57

Instrument :

MSVOA_L

ClientSampleId :

IA-B2-4-03312025DL

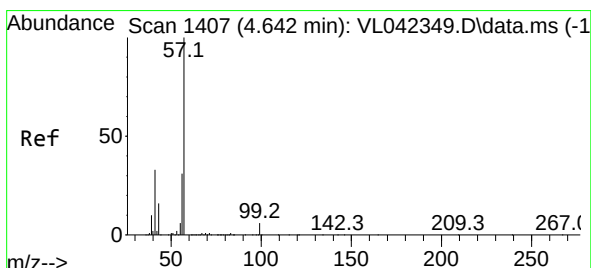
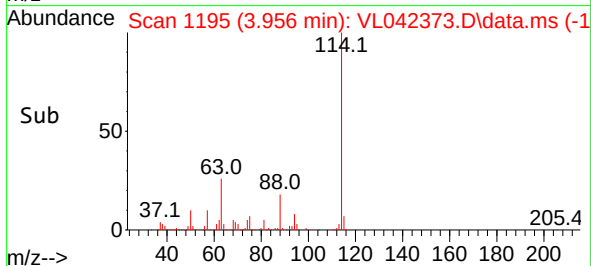
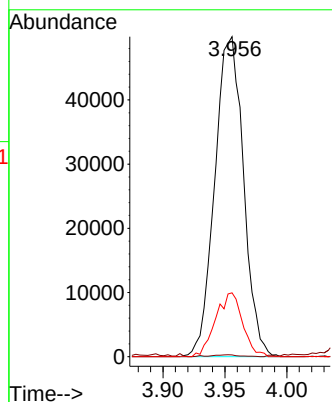
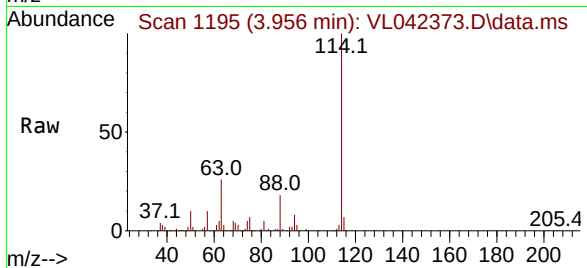
Tgt Ion: 63 Resp: 80554

Ion Ratio Lower Upper

63 100

41 0.3 64.2 96.2#

62 19.9 54.3 81.5#



#44

2,2,4-Trimethylpentane

Concen: 0.293 ppbv

RT: 4.632 min Scan# 1404

Delta R.T. -0.009 min

Lab File: VL042373.D

Acq: 17 Apr 2025 23:57

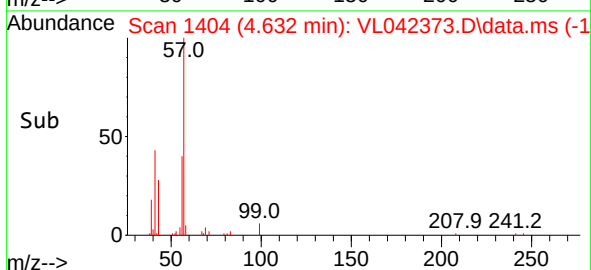
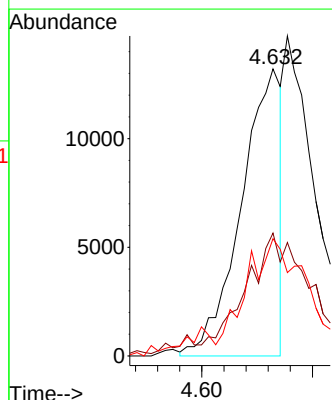
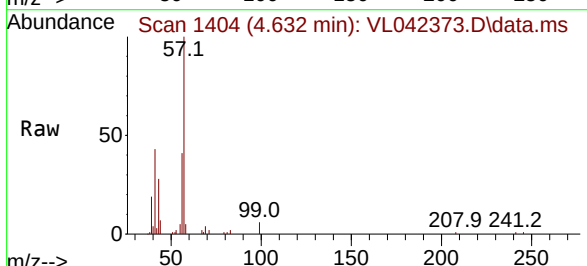
Tgt Ion: 57 Resp: 16572

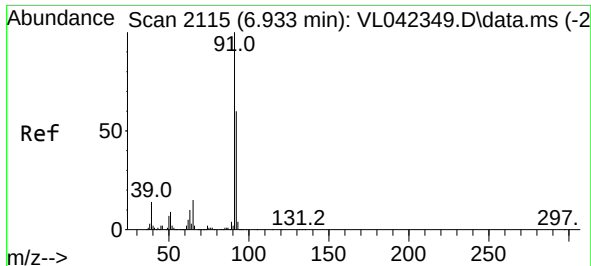
Ion Ratio Lower Upper

57 100

41 74.0 27.2 40.8#

56 71.3 25.7 38.5#

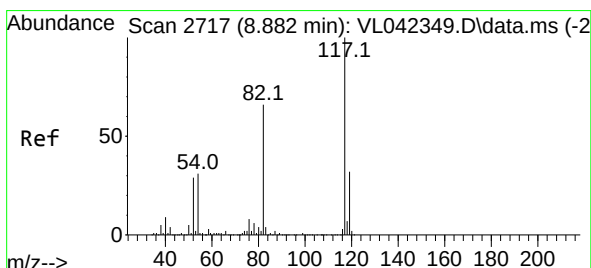
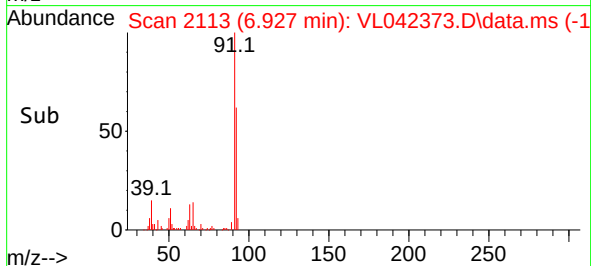
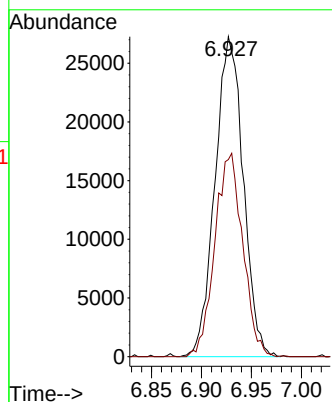
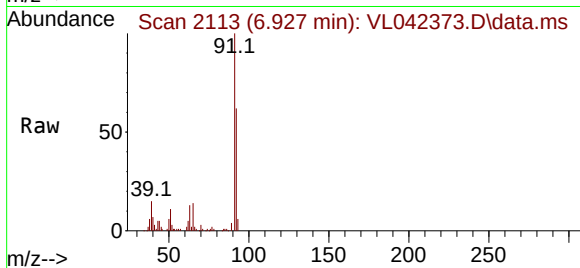




#53
Toluene
Concen: 1.365 ppbv
RT: 6.927 min Scan# 2113
Delta R.T. -0.006 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

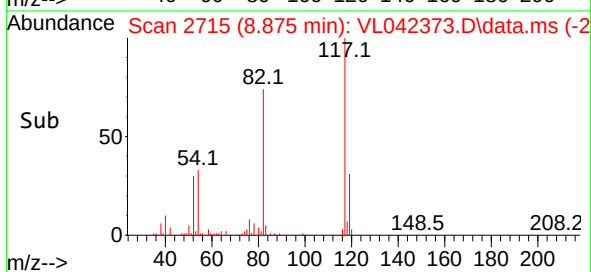
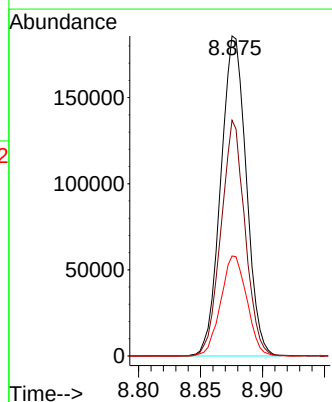
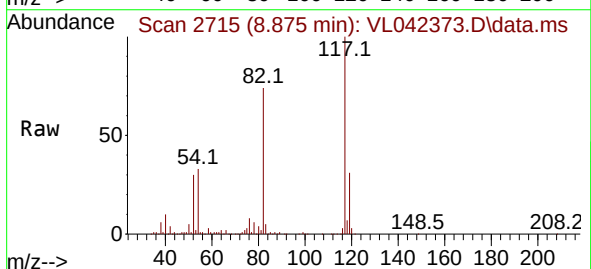
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL

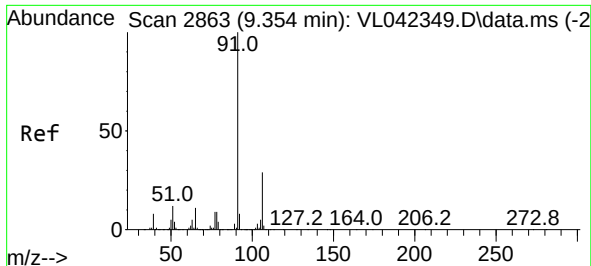
Tgt Ion: 91 Resp: 53637
Ion Ratio Lower Upper
91 100
92 62.9 48.2 72.4



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. -0.006 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

Tgt Ion: 117 Resp: 266154
Ion Ratio Lower Upper
117 100
82 69.4 57.8 86.6
119 32.1 25.2 37.8

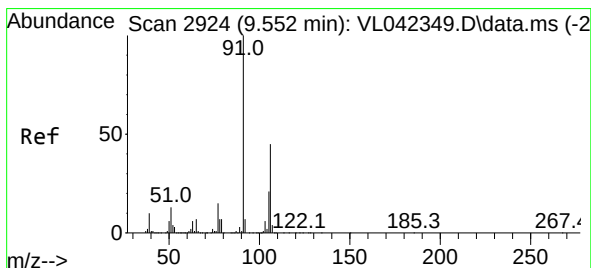
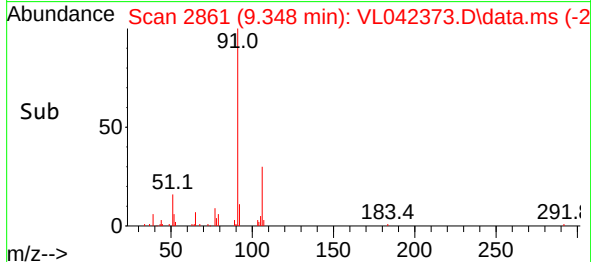
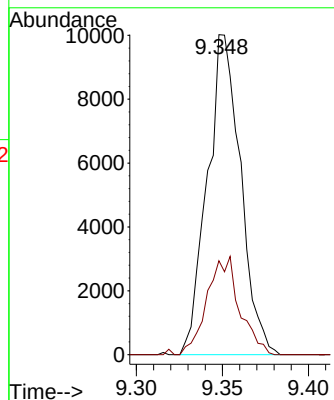
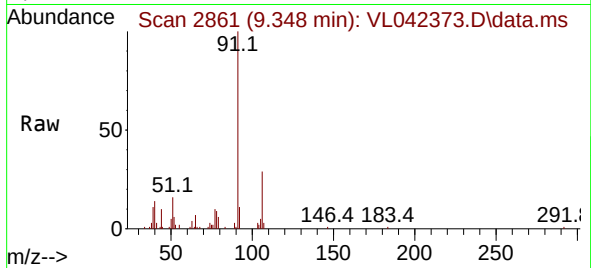




#58
Ethyl Benzene
Concen: 0.256 ppbv
RT: 9.348 min Scan# 21
Delta R.T. -0.006 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

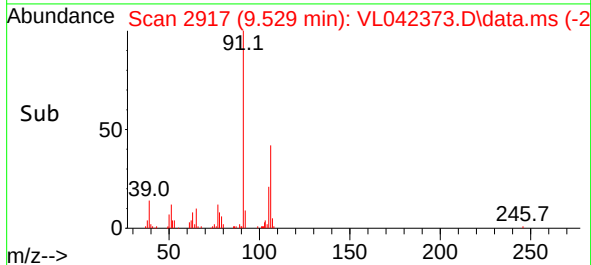
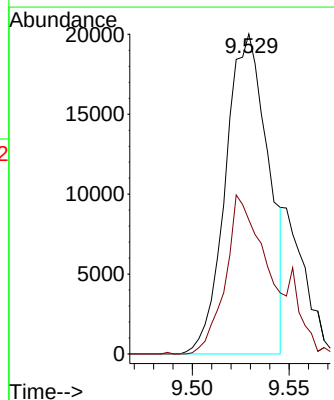
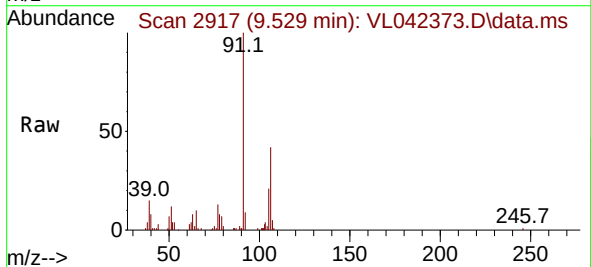
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL

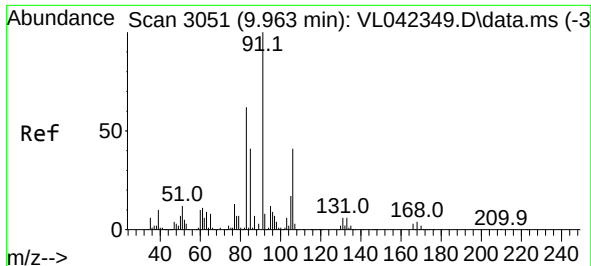
Tgt Ion: 91 Resp: 13474
Ion Ratio Lower Upper
91 100
106 29.4 23.0 34.4



#59
m/p-Xylene
Concen: 0.724 ppbv
RT: 9.529 min Scan# 2917
Delta R.T. -0.022 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

Tgt Ion: 91 Resp: 30753
Ion Ratio Lower Upper
91 100
106 55.2 35.4 53.2#

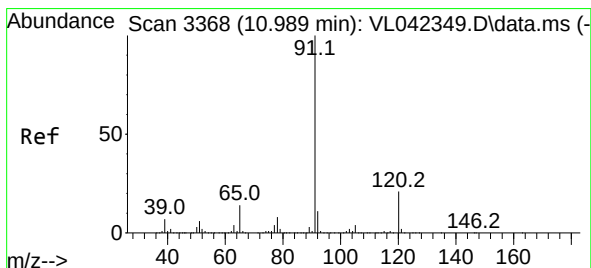
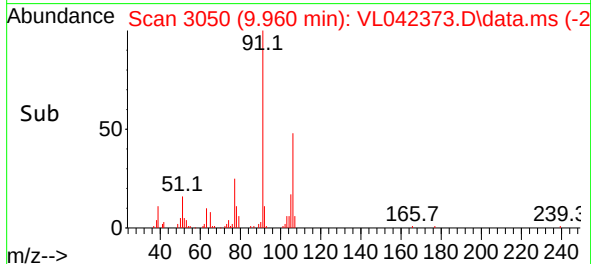
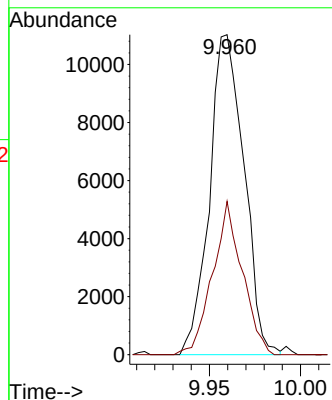
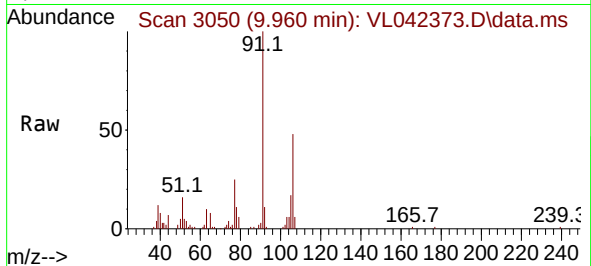




#60
o-Xylene
Concen: 0.339 ppbv
RT: 9.960 min Scan# 3051
Delta R.T. -0.003 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

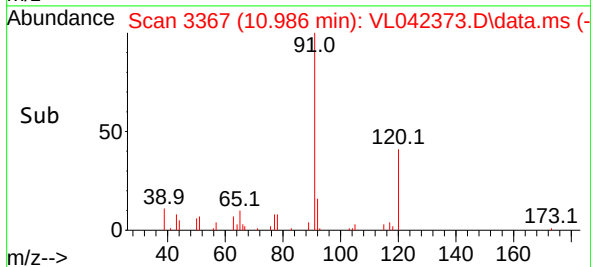
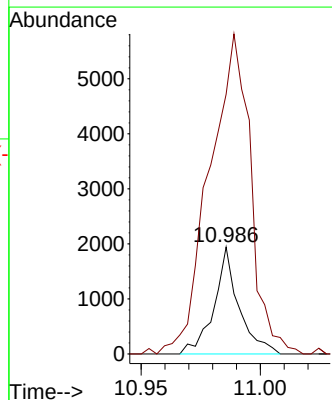
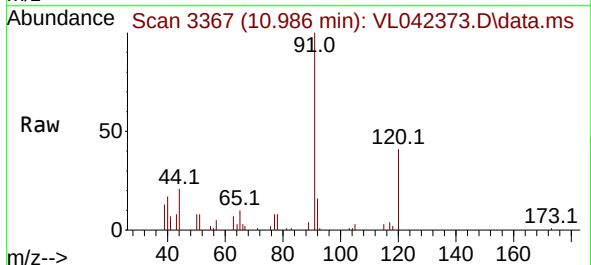
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL

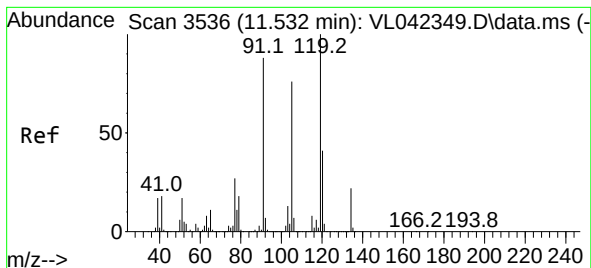
Tgt Ion: 91 Resp: 14506
Ion Ratio Lower Upper
91 100
106 41.3 21.1 63.4



#64
n-propylbenzene
Concen: 0.089 ppbv
RT: 10.986 min Scan# 3367
Delta R.T. -0.003 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

Tgt Ion: 120 Resp: 1406
Ion Ratio Lower Upper
120 100
91 501.6 392.4 588.6





#65

tert-Butylbenzene

Concen: 0.053 ppbv

RT: 11.539 min Scan# 3178

Delta R.T. 0.007 min

Lab File: VL042373.D

Acq: 17 Apr 2025 23:57

Instrument :

MSVOA_L

ClientSampleId :

IA-B2-4-03312025DL

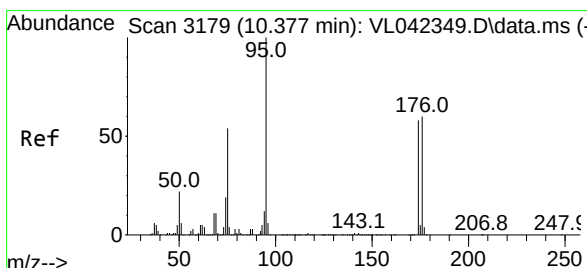
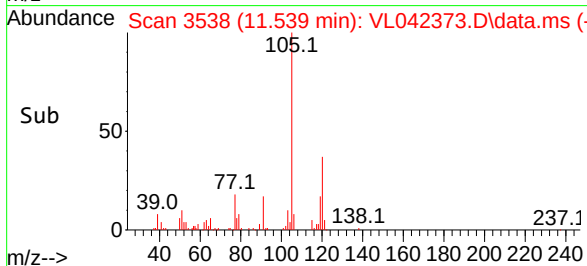
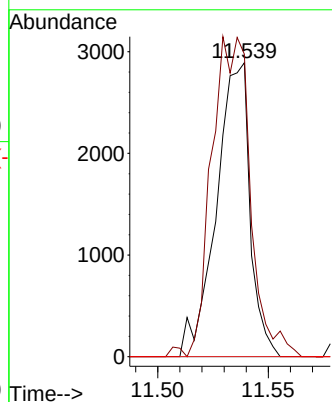
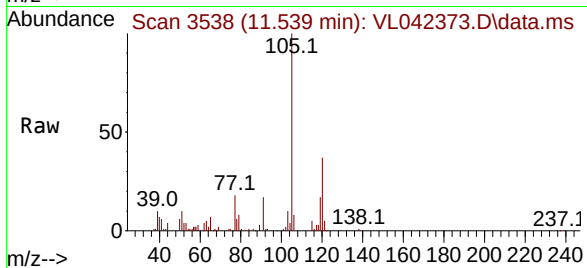
Tgt Ion:119 Resp: 3065

Ion Ratio Lower Upper

119 100

91 125.8 74.6 111.8#

134 1.0 18.8 28.2#



#68

1-Bromo-4-Fluorobenzene

Concen: 10.062 ppbv

RT: 10.374 min Scan# 3178

Delta R.T. -0.003 min

Lab File: VL042373.D

Acq: 17 Apr 2025 23:57

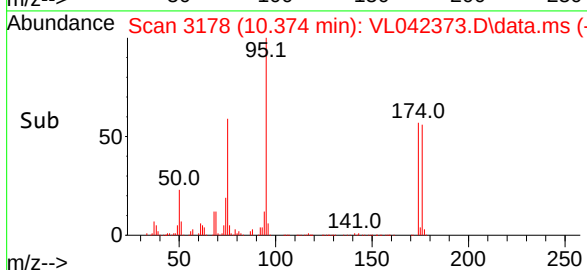
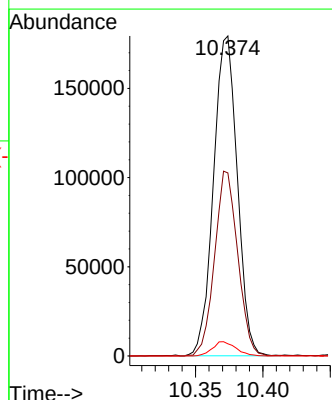
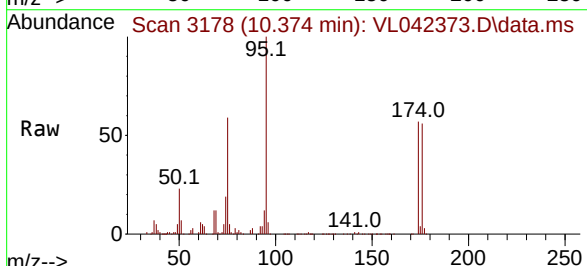
Tgt Ion: 95 Resp: 220060

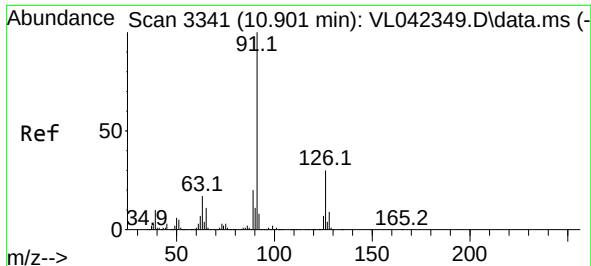
Ion Ratio Lower Upper

95 100

174 56.3 48.5 72.7

175 4.4 3.7 5.5

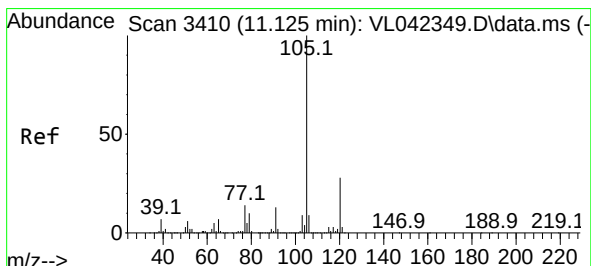
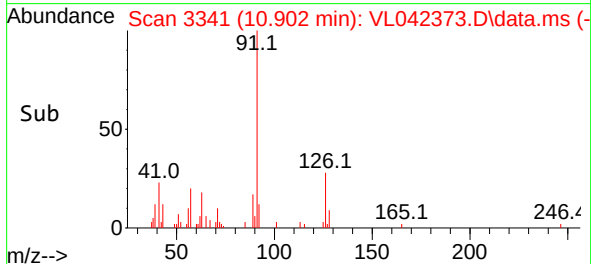
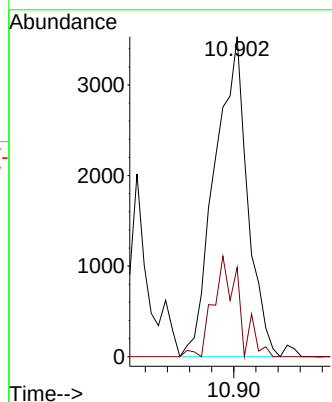
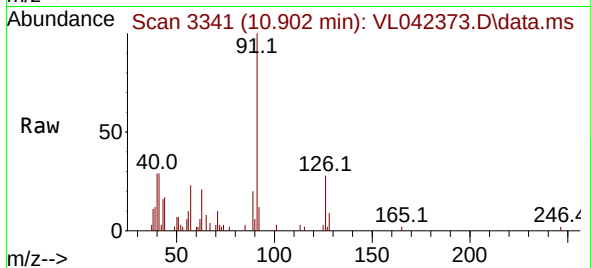




#71
2-Chlorotoluene
Concen: 0.073 ppbv
RT: 10.902 min Scan# 31
Delta R.T. 0.000 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

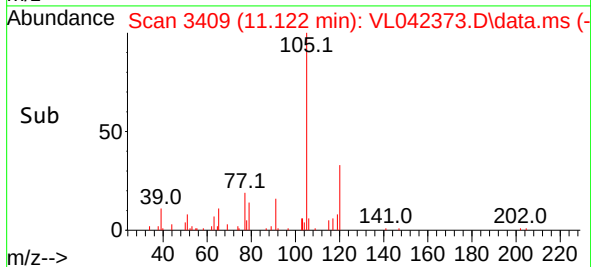
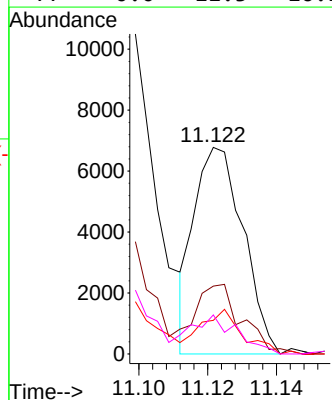
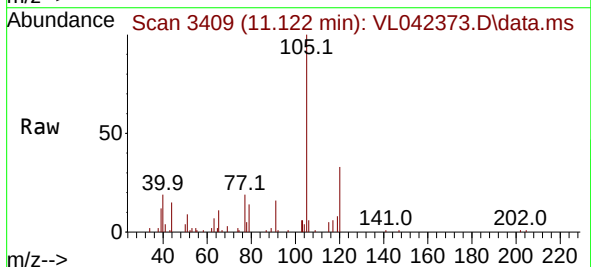
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL

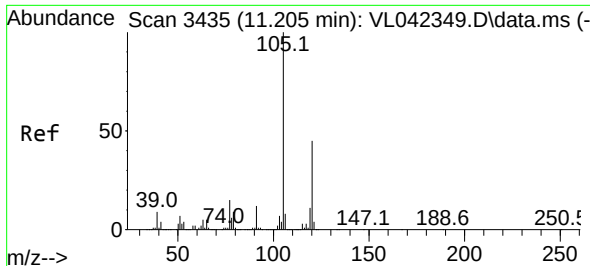
Tgt Ion: 91 Resp: 3618
Ion Ratio Lower Upper
91 100
126 24.8 11.4 45.4



#72
4-Ethyltoluene
Concen: 0.128 ppbv
RT: 11.122 min Scan# 3409
Delta R.T. -0.003 min
Lab File: VL042373.D
Acq: 17 Apr 2025 23:57

Tgt Ion:105 Resp: 6684
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#

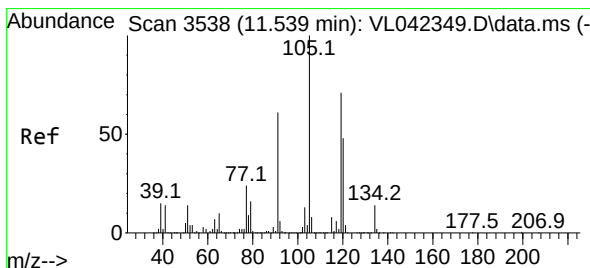
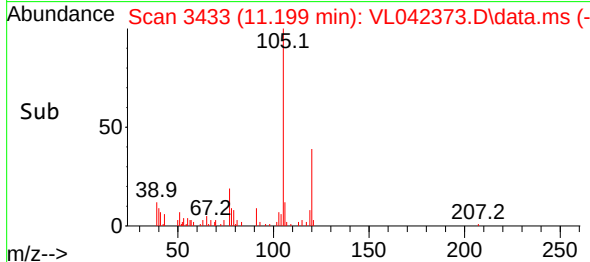
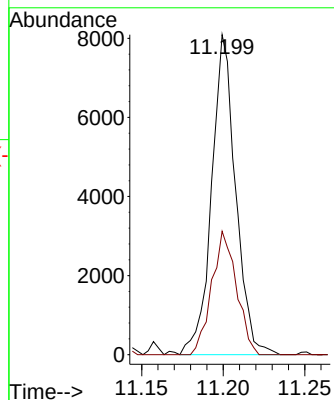
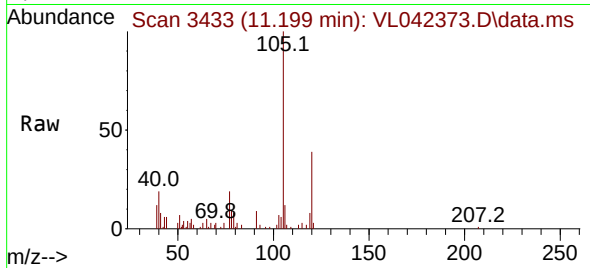




#73
 1,3,5-Trimethylbenzene
 Concen: 0.180 ppbv
 RT: 11.199 min Scan# 3435
 Delta R.T. -0.006 min
 Lab File: VL042373.D
 Acq: 17 Apr 2025 23:57

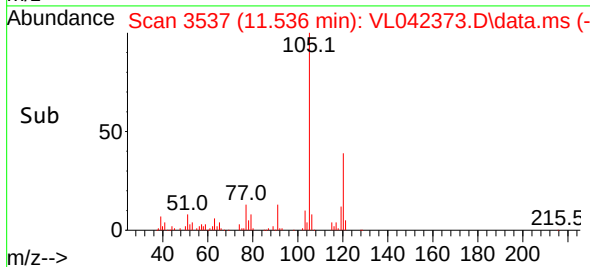
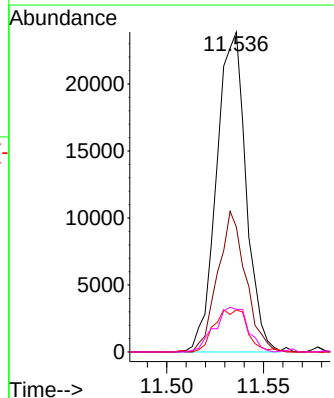
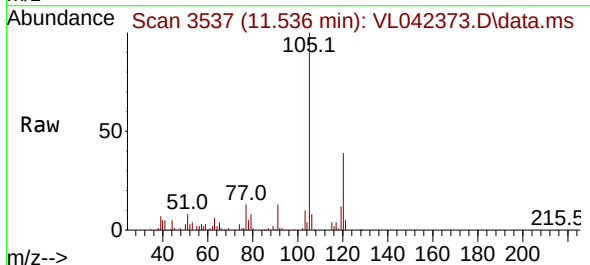
Instrument :
 MSVOA_1
 ClientSampleId :
 IA-B2-4-03312025DL

Tgt Ion:105 Resp: 8296
 Ion Ratio Lower Upper
 105 100
 120 41.5 35.6 53.4



#74
 1,2,4-Trimethylbenzene
 Concen: 0.468 ppbv
 RT: 11.536 min Scan# 3537
 Delta R.T. -0.003 min
 Lab File: VL042373.D
 Acq: 17 Apr 2025 23:57

Tgt Ion:105 Resp: 25240
 Ion Ratio Lower Upper
 105 100
 120 38.8 38.1 57.1
 91 12.8 48.8 73.2#
 77 13.3 19.0 28.4#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042376.D
 Acq On : 18 Apr 2025 01:30
 Operator : SY/MD
 Sample : Q1726-01DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-DUP-3-03312025DL

Quant Time: Apr 18 04:39:28 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

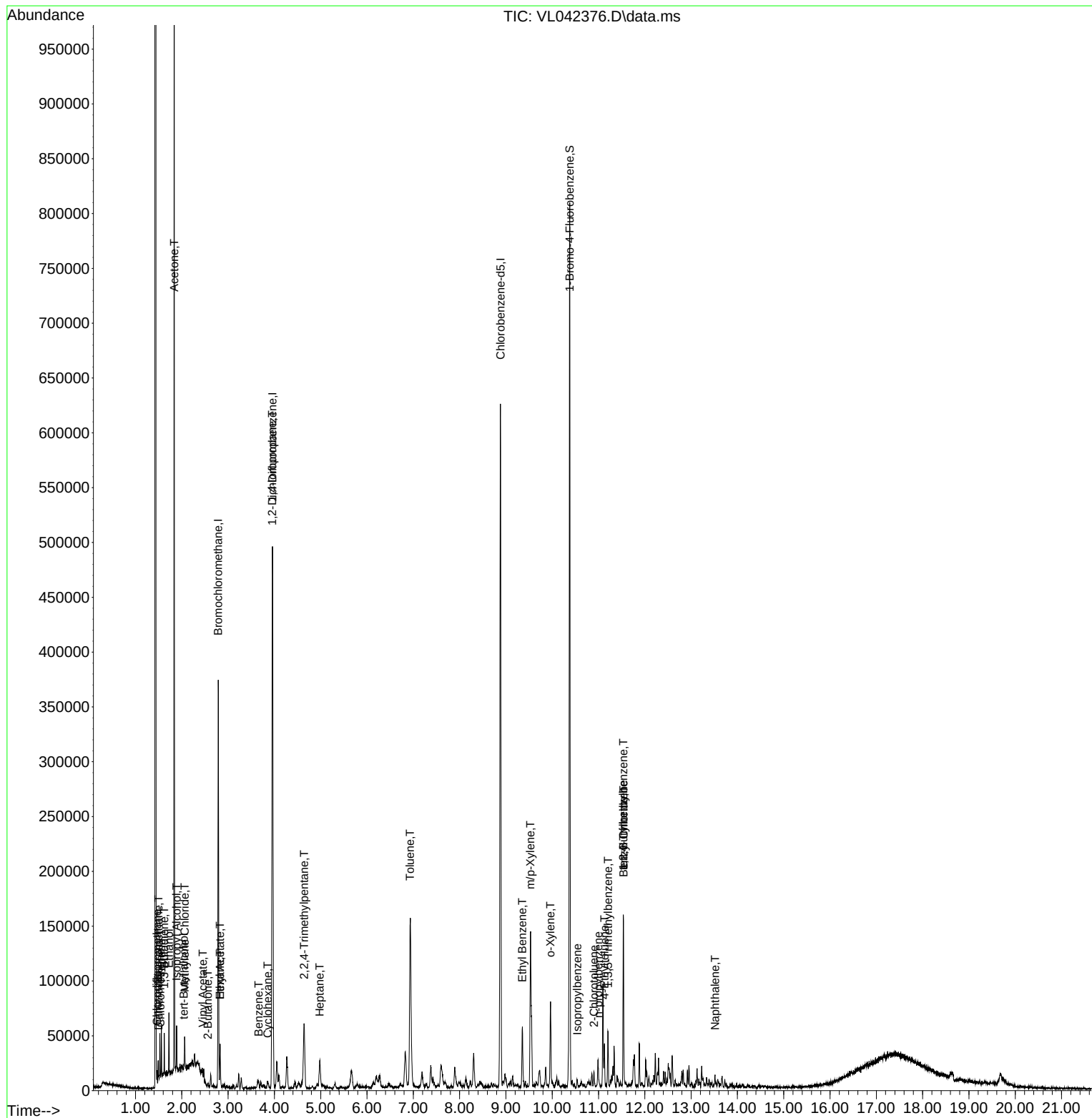
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.787	49	100356	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	288404	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	249449	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	207163	10.106	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.100%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	930	0.052	ppbv	100
3) Chlorodifluoromethane	1.466	51	3123	0.185	ppbv #	67
4) Chloromethane	1.534	50	634	0.090	ppbv #	70
9) Propene	1.560	41	3637	0.473	ppbv	90
10) Heptane	4.978	43	10406	0.482	ppbv	91
13) Ethanol	1.722	45	20340	16.643	ppbv	80
15) Acetone	1.835	43	516180	31.420	ppbv	98
16) 1,3-Butadiene	1.622	39	1757	0.224	ppbv #	19
17) tert-Butyl alcohol	2.046	59	728	0.036	ppbv #	1
19) Isopropyl Alcohol	1.887	45	16398	1.797	ppbv #	1
20) Methylene Chloride	2.062	84	4276	0.665	ppbv #	77
23) Vinyl Acetate	2.454	43	1065	0.160	ppbv #	1
25) Ethyl Acetate	2.826	43	6629	0.164	ppbv #	83
26) Hexane	2.826	57	8480	0.517	ppbv #	34
30) Cyclohexane	3.855	84	856	0.065	ppbv #	1
34) 2-Butanone	2.564	43	1784	0.078	ppbv	93
36) Benzene	3.658	78	3080	0.099	ppbv #	62
39) 1,2-Dichloropropane	3.955	63	76957	6.639	ppbv #	21
44) 2,2,4-Trimethylpentane	4.641	57	54714	1.018	ppbv	94
53) Toluene	6.930	91	107299	2.874	ppbv	98
58) Ethyl Benzene	9.354	91	29882	0.605	ppbv	94
59) m/p-Xylene	9.529	91	88263	2.217	ppbv	99
60) o-Xylene	9.963	91	34430	0.859	ppbv	97
62) Isopropylbenzene	10.542	105	3486	0.059	ppbv	94
64) n-propylbenzene	10.992	120	2336	0.158	ppbv	75
65) tert-Butylbenzene	11.536	119	5490	0.101	ppbv #	61
66) Benzyl Chloride	11.539	91	6956	1.170	ppbv #	70
71) 2-Chlorotoluene	10.901	91	2632	0.057	ppbv	94
72) 4-Ethyltoluene	11.128	105	15927	0.325	ppbv #	56
73) 1,3,5-Trimethylbenzene	11.205	105	16220	0.375	ppbv	95
74) 1,2,4-Trimethylbenzene	11.536	105	57208	1.132	ppbv #	60
79) Naphthalene	13.516	128	4610	0.076	ppbv #	94

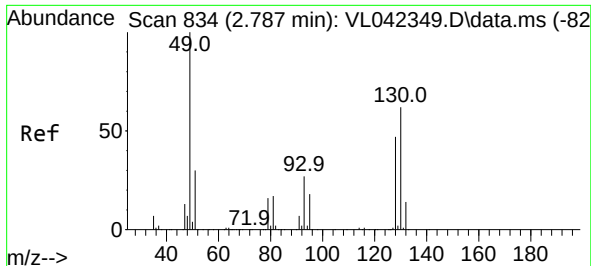
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042376.D
Acq On : 18 Apr 2025 01:30
Operator : SY/MD
Sample : Q1726-01DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL

Quant Time: Apr 18 04:39:28 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

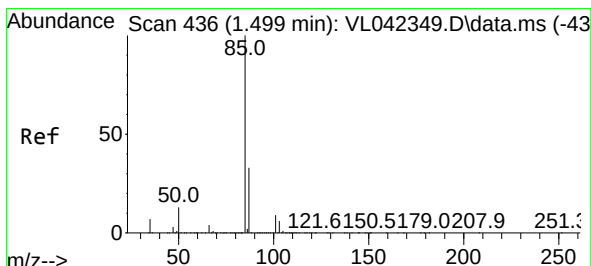
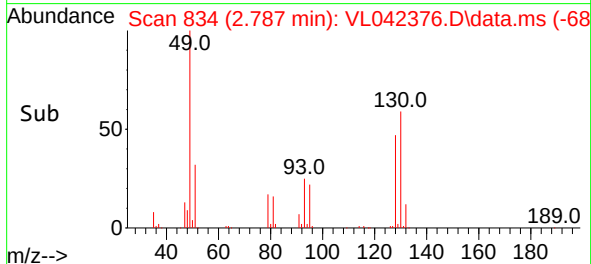
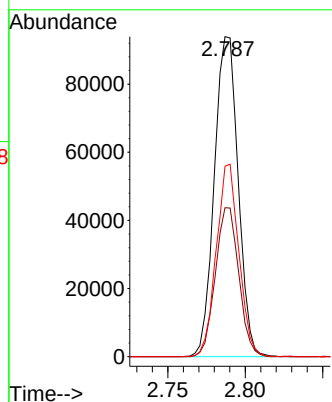
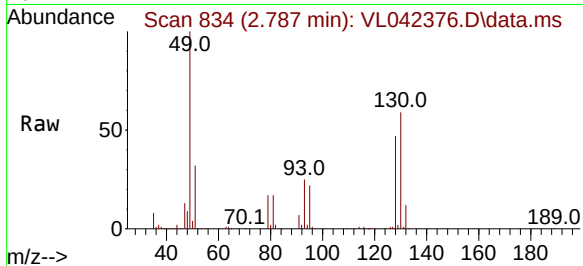




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 834
Delta R.T. -0.000 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

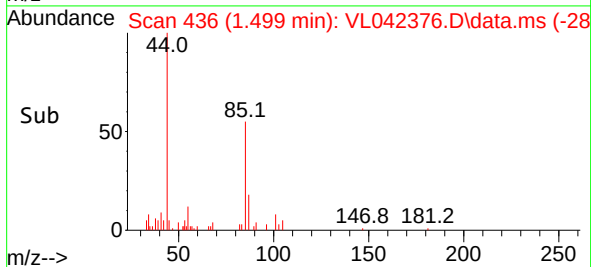
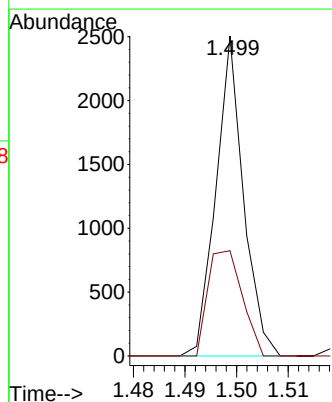
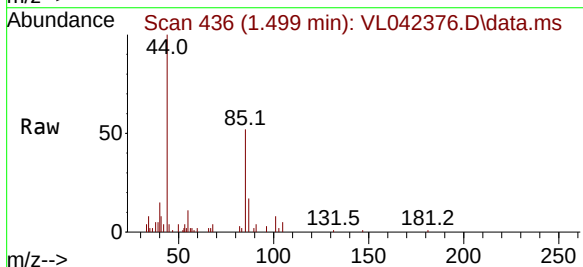
Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL

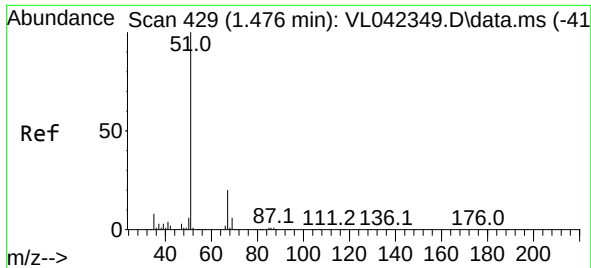
Tgt Ion: 49 Resp: 100356
Ion Ratio Lower Upper
49 100
128 45.8 22.8 68.4
130 57.1 29.3 88.0



#2
Dichlorodifluoromethane
Concen: 0.052 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

Tgt Ion: 85 Resp: 930
Ion Ratio Lower Upper
85 100
87 32.9 26.6 39.8

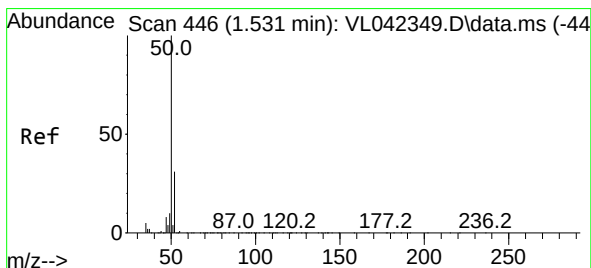
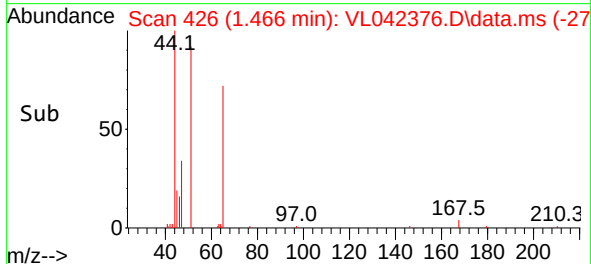
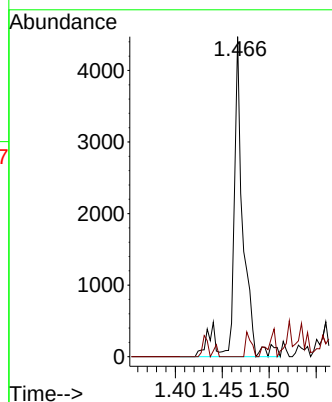
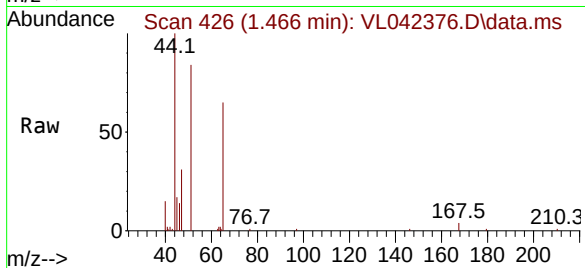




#3
Chlorodifluoromethane
Concen: 0.185 ppbv
RT: 1.466 min Scan# 41
Delta R.T. -0.010 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

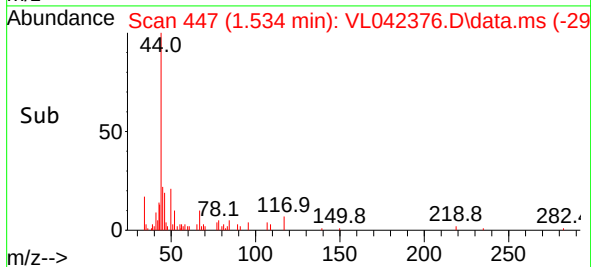
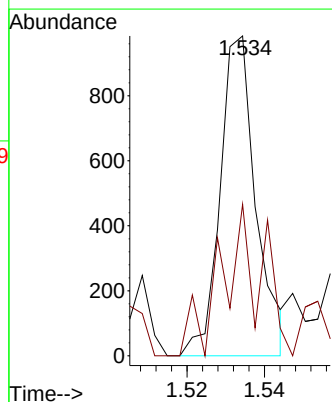
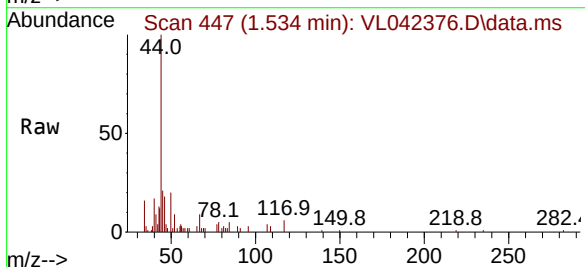
Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL

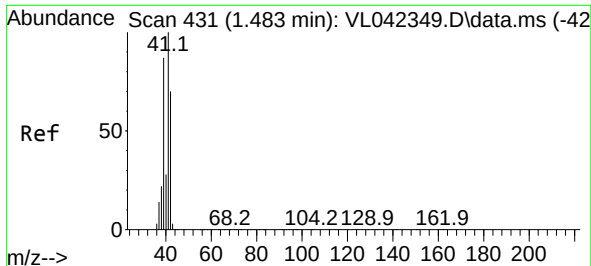
Tgt Ion: 51 Resp: 3123
Ion Ratio Lower Upper
51 100
67 5.1 16.2 24.4#



#4
Chloromethane
Concen: 0.090 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

Tgt Ion: 50 Resp: 634
Ion Ratio Lower Upper
50 100
52 47.4 24.7 37.1#





#9

Propene

Concen: 0.473 ppbv

RT: 1.560 min Scan# 41

Delta R.T. 0.078 min

Lab File: VL042376.D

Acq: 18 Apr 2025 01:30

Instrument :

MSVOA_1

ClientSampleId :

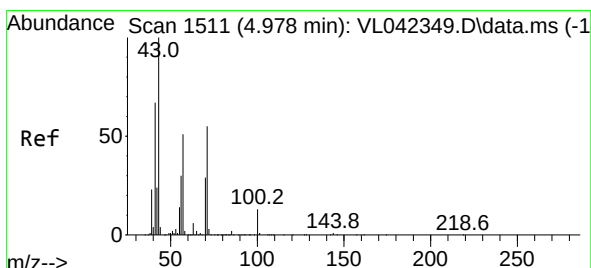
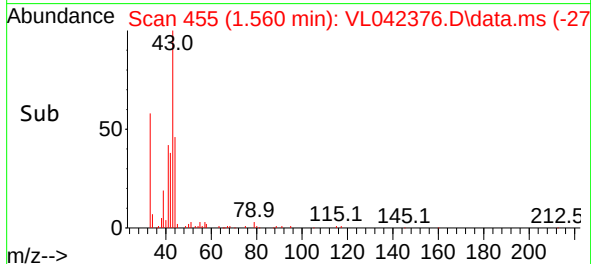
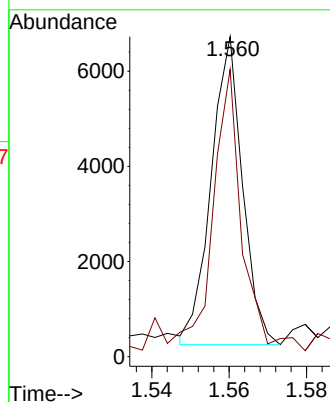
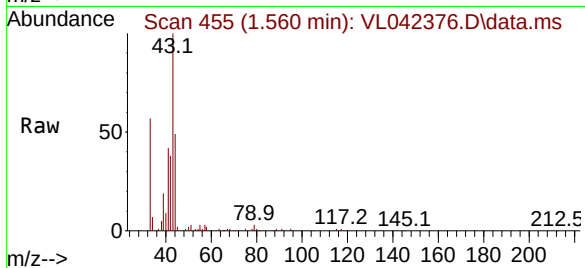
IA-DUP-3-03312025DL

Tgt Ion: 41 Resp: 3637

Ion Ratio Lower Upper

41 100

42 78.5 56.2 84.4



#10

Heptane

Concen: 0.482 ppbv

RT: 4.978 min Scan# 1511

Delta R.T. -0.000 min

Lab File: VL042376.D

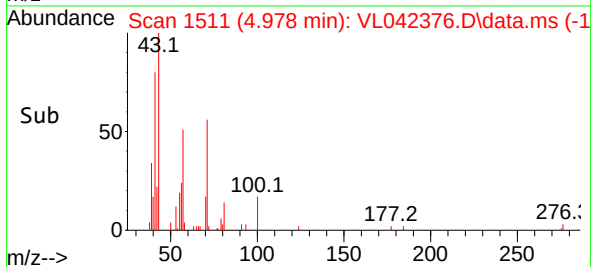
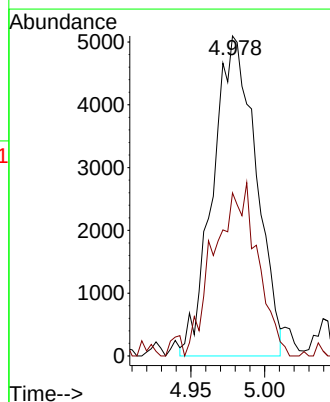
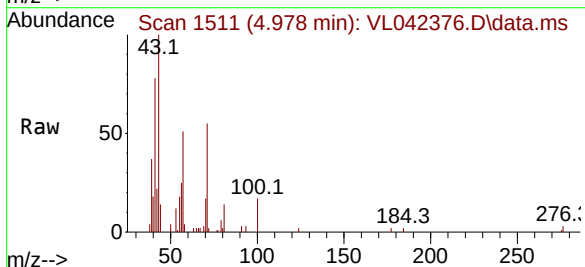
Acq: 18 Apr 2025 01:30

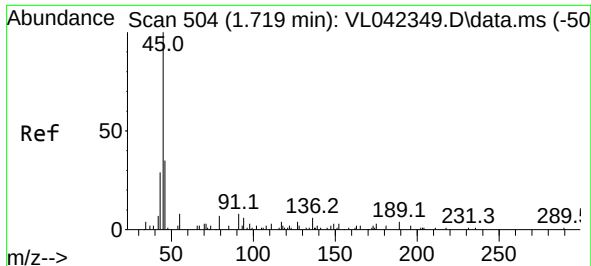
Tgt Ion: 43 Resp: 10406

Ion Ratio Lower Upper

43 100

57 56.4 39.9 59.9

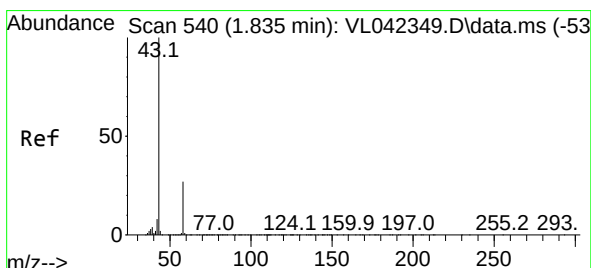
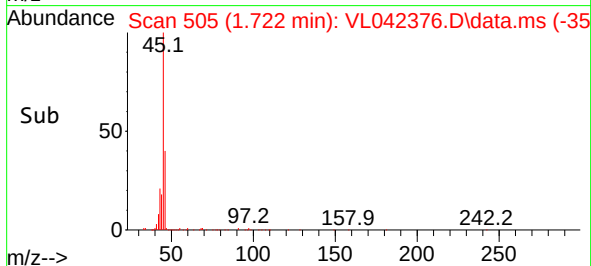
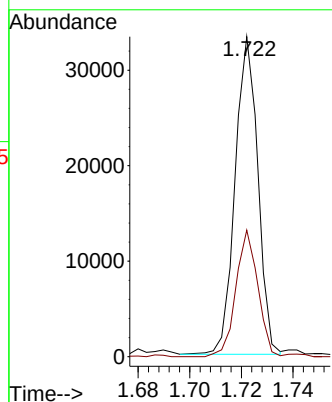
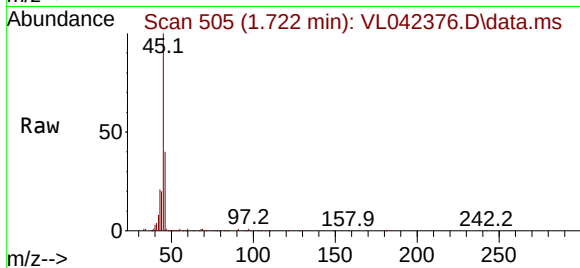




#13
Ethanol
Concen: 16.643 ppbv
RT: 1.722 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

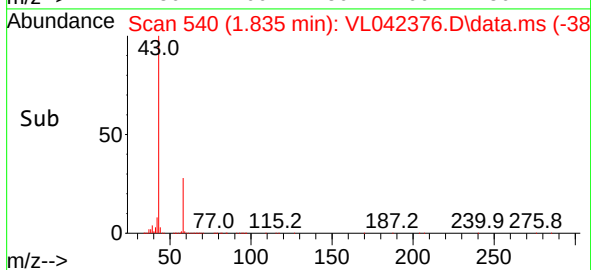
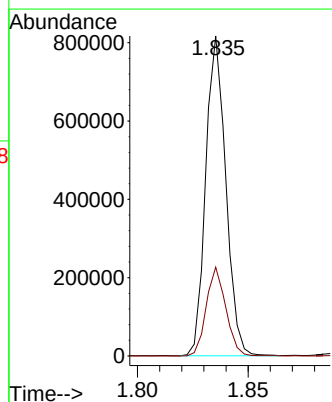
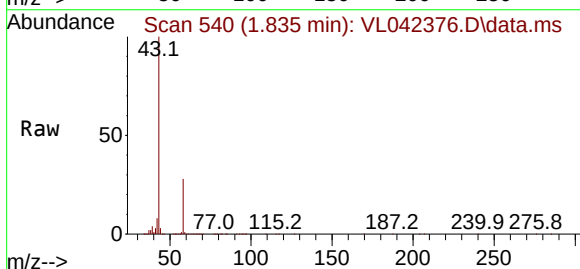
Instrument :
MSVOA_1
ClientSampleId :
IA-DUP-3-03312025DL

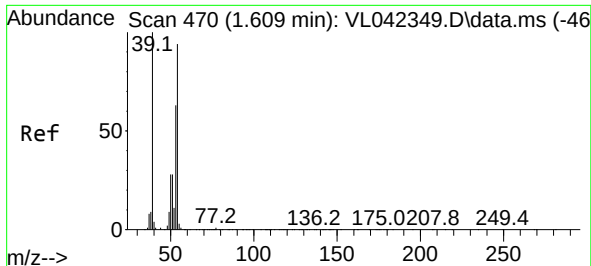
Tgt Ion: 45 Resp: 20340
Ion Ratio Lower Upper
45 100
46 40.5 21.9 87.7



#15
Acetone
Concen: 31.420 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.000 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

Tgt Ion: 43 Resp: 516180
Ion Ratio Lower Upper
43 100
58 27.1 22.4 33.6

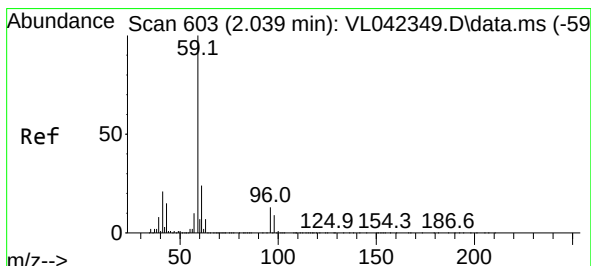
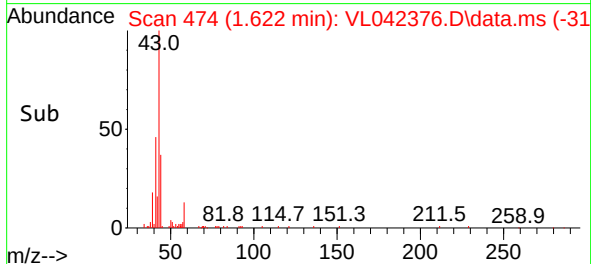
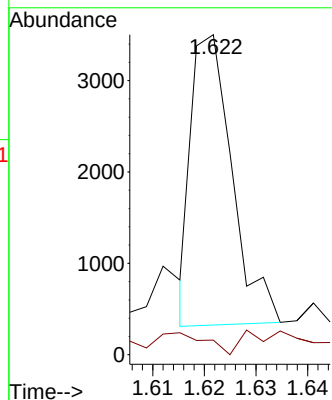
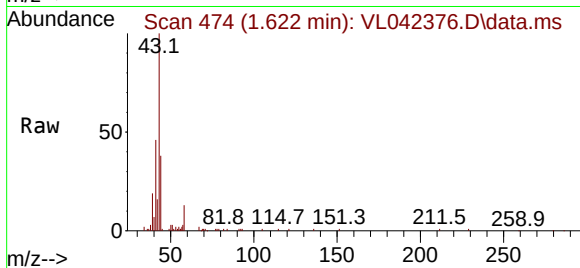




#16
1,3-Butadiene
Concen: 0.224 ppbv
RT: 1.622 min Scan# 41
Delta R.T. 0.013 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

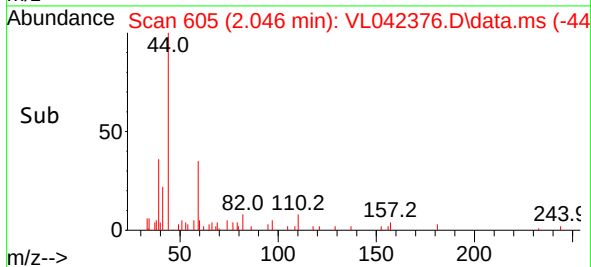
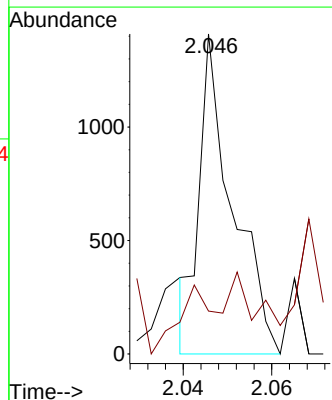
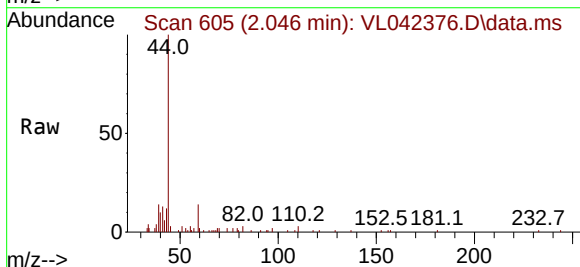
Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL

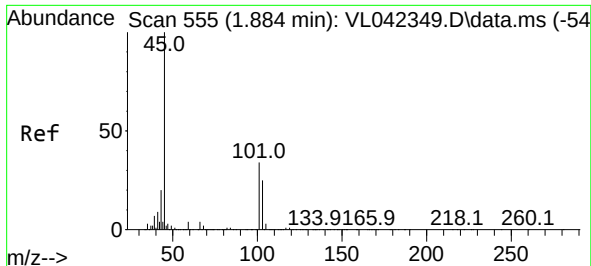
Tgt Ion: 39 Resp: 1757
Ion Ratio Lower Upper
39 100
54 9.4 64.9 97.3#



#17
tert-Butyl alcohol
Concen: 0.036 ppbv
RT: 2.046 min Scan# 605
Delta R.T. 0.006 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

Tgt Ion: 59 Resp: 728
Ion Ratio Lower Upper
59 100
57 103.0 8.7 13.1#

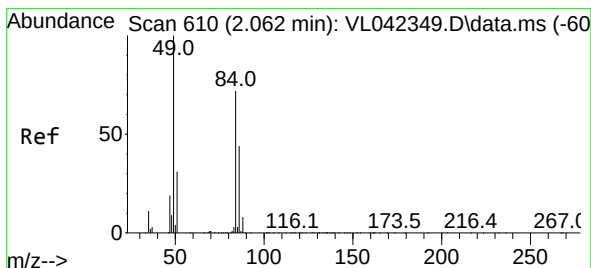
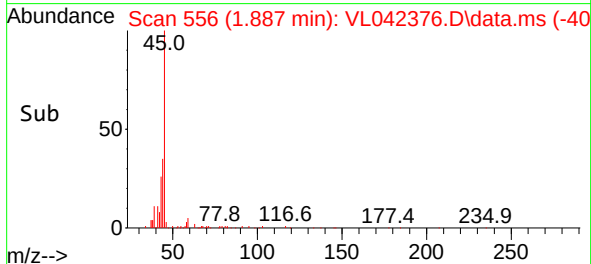
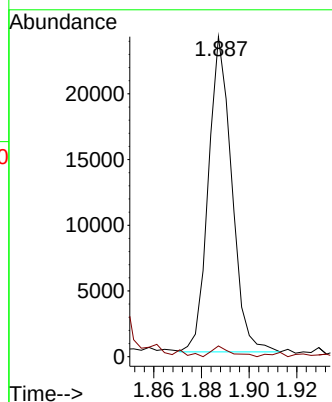
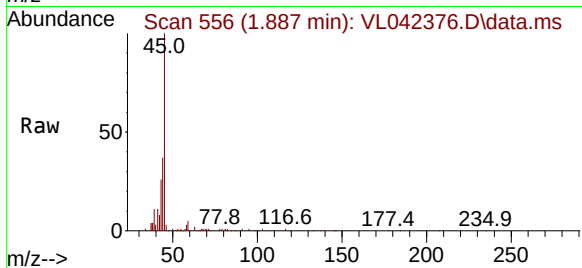




#19
Isopropyl Alcohol
Concen: 1.797 ppbv
RT: 1.887 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

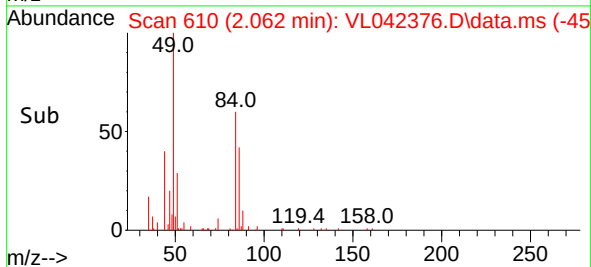
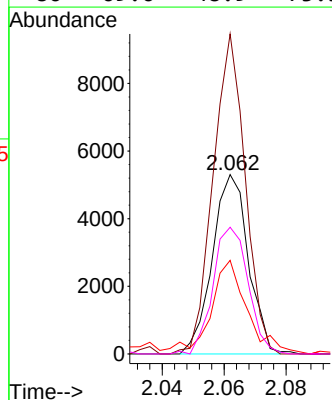
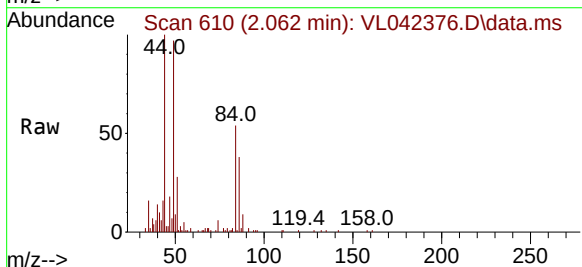
Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL

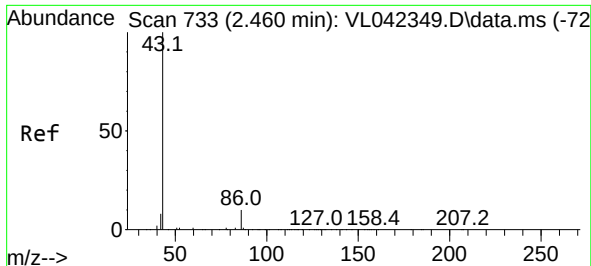
Tgt Ion: 45 Resp: 16398
Ion Ratio Lower Upper
45 100
58 851.7 34.5 51.7#



#20
Methylene Chloride
Concen: 0.665 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.000 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

Tgt Ion: 84 Resp: 4276
Ion Ratio Lower Upper
84 100
49 178.4 111.6 167.4#
51 49.6 35.1 52.7
86 69.6 48.9 73.3

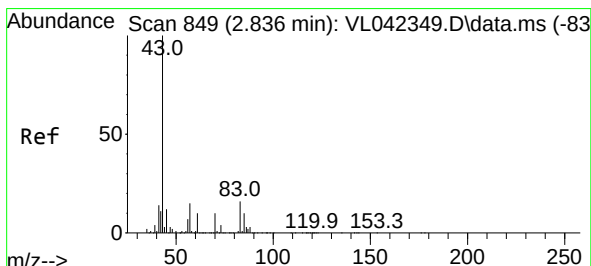
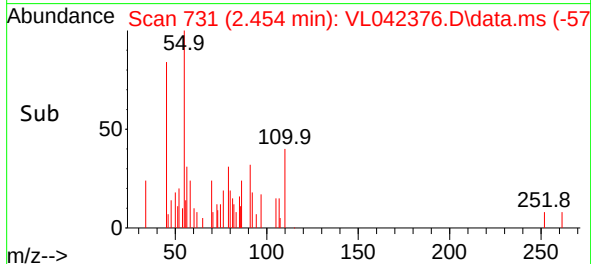
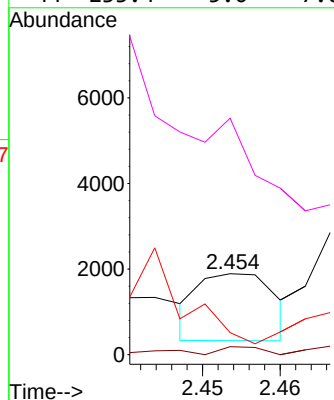
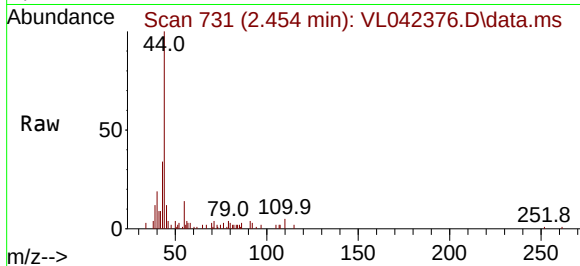




#23
Vinyl Acetate
Concen: 0.160 ppbv
RT: 2.454 min Scan# 71
Delta R.T. -0.007 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

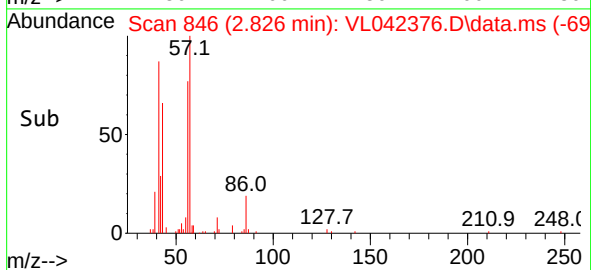
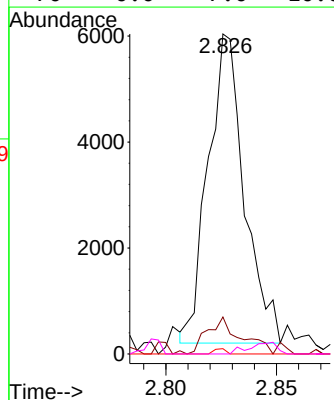
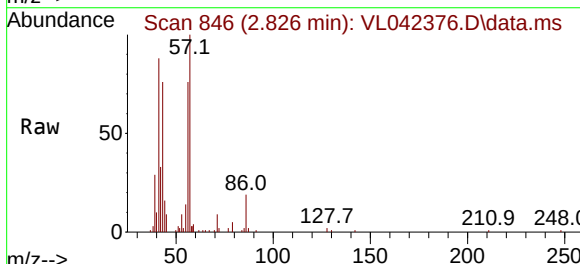
Instrument :
MSVOA_1
ClientSampleId :
IA-DUP-3-03312025DL

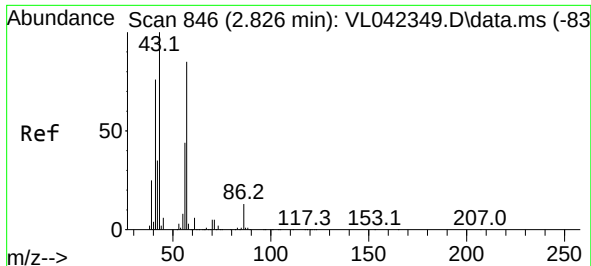
Tgt Ion:	43	Resp:	1065
Ion	Ratio	Lower	Upper
43	100		
86	26.6	6.5	9.7#
42	0.0	7.8	11.8#
44	233.4	5.0	7.6#



#25
Ethyl Acetate
Concen: 0.164 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.010 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

Tgt Ion:	43	Resp:	6629
Ion	Ratio	Lower	Upper
43	100		
45	12.4	8.3	12.5
61	0.6	7.3	10.9#
70	0.0	7.0	10.6#

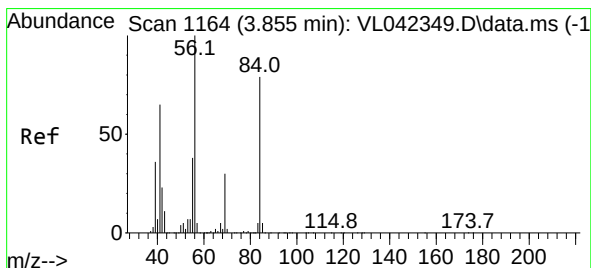
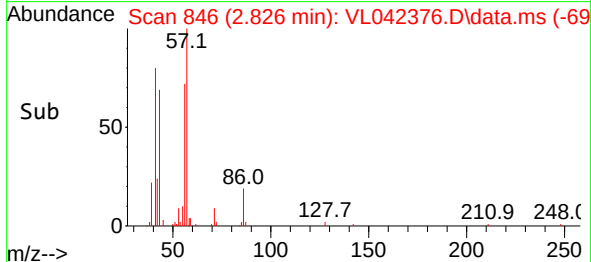
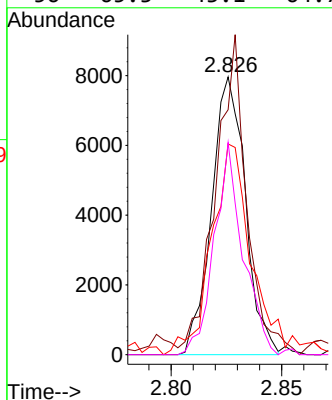
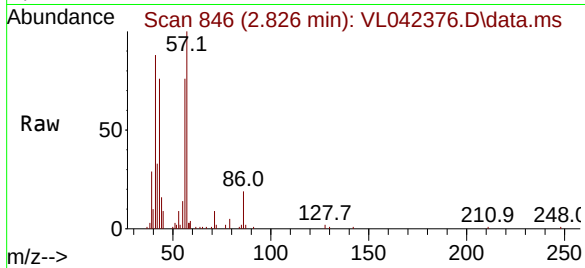




#26
Hexane
Concen: 0.517 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.000 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

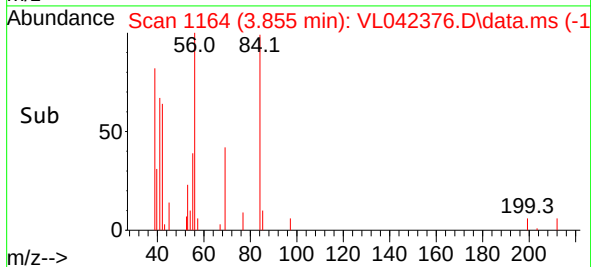
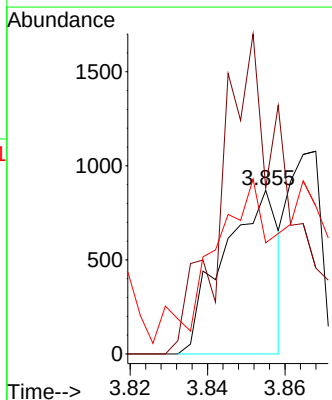
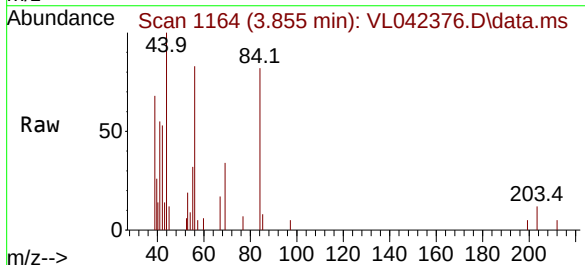
Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL

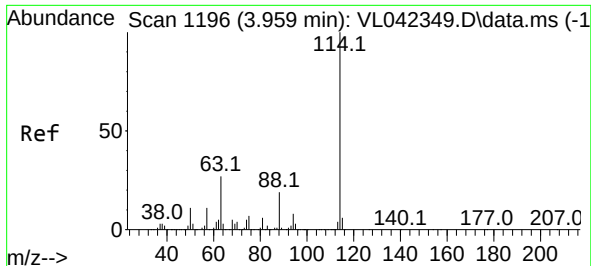
Tgt Ion: 57 Resp: 8480
Ion Ratio Lower Upper
57 100
41 104.3 77.9 116.9
43 84.6 208.4 312.6#
56 65.3 43.1 64.7#



#30
Cyclohexane
Concen: 0.065 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. -0.000 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

Tgt Ion: 84 Resp: 856
Ion Ratio Lower Upper
84 100
56 255.0 101.0 151.4#
41 229.6 67.4 101.0#

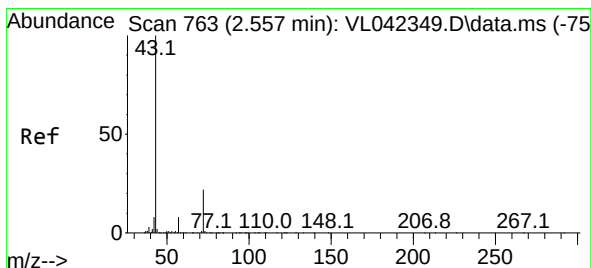
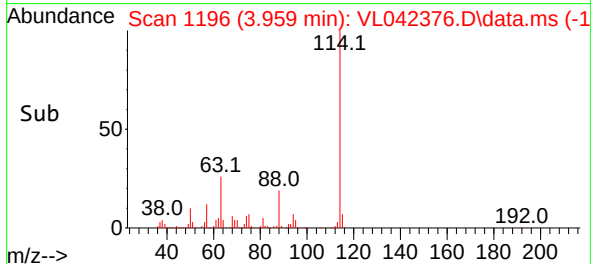
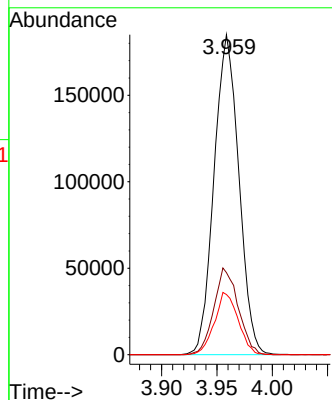
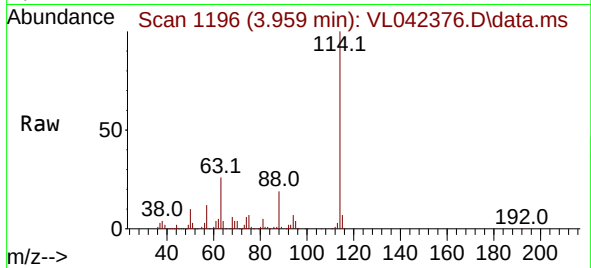




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.959 min Scan# 1196
 Delta R.T. -0.000 min
 Lab File: VL042376.D
 Acq: 18 Apr 2025 01:30

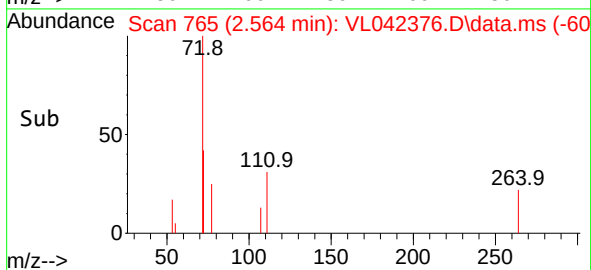
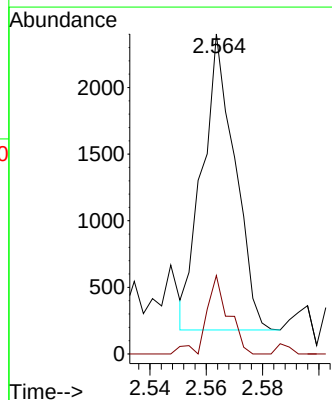
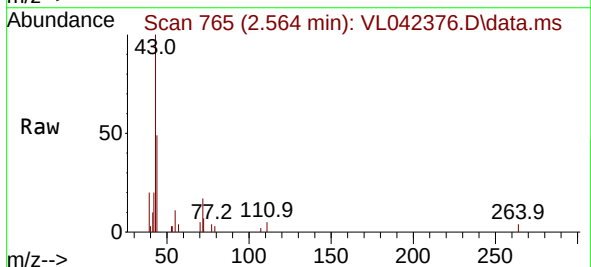
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-DUP-3-03312025DL

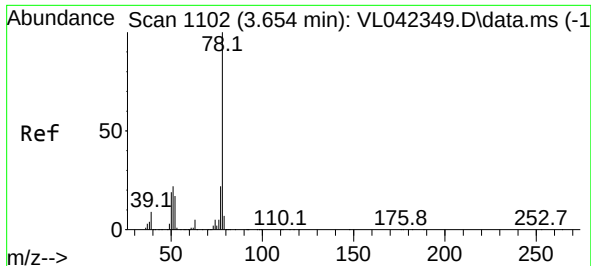
Tgt Ion:114 Resp: 288404
 Ion Ratio Lower Upper
 114 100
 63 26.7 21.8 32.6
 88 18.6 15.5 23.3



#34
 2-Butanone
 Concen: 0.078 ppbv
 RT: 2.564 min Scan# 765
 Delta R.T. 0.006 min
 Lab File: VL042376.D
 Acq: 18 Apr 2025 01:30

Tgt Ion: 43 Resp: 1784
 Ion Ratio Lower Upper
 43 100
 72 19.5 18.2 27.2

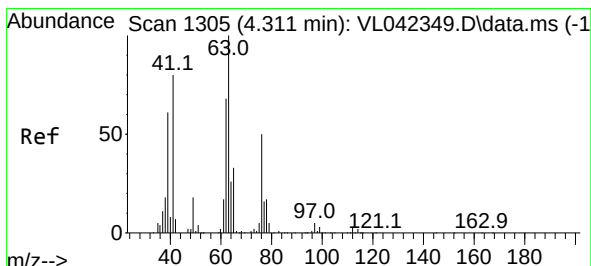
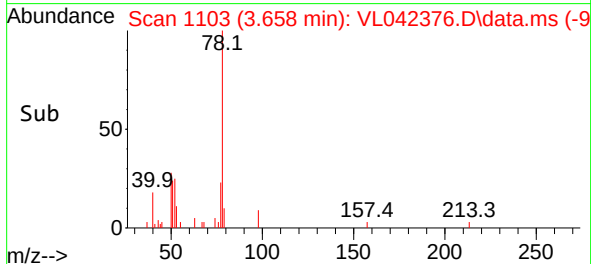
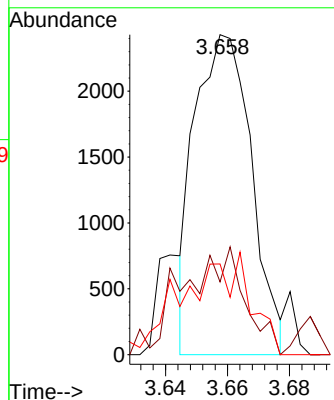
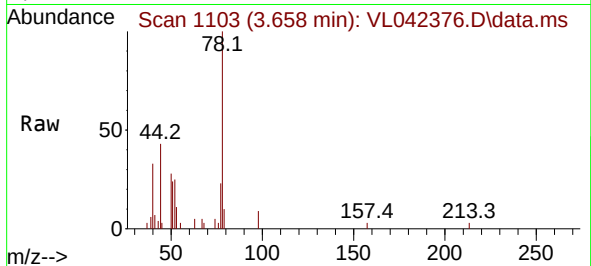




#36
Benzene
Concen: 0.099 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. 0.003 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

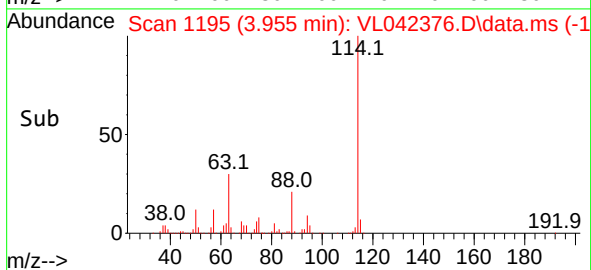
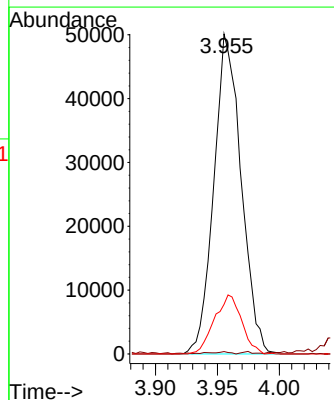
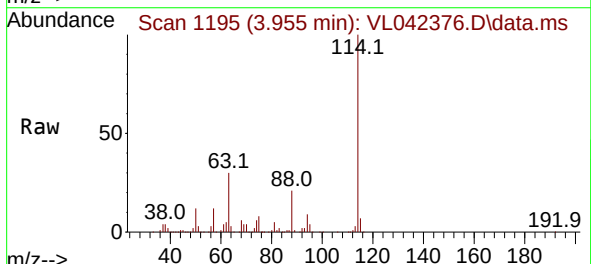
Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL

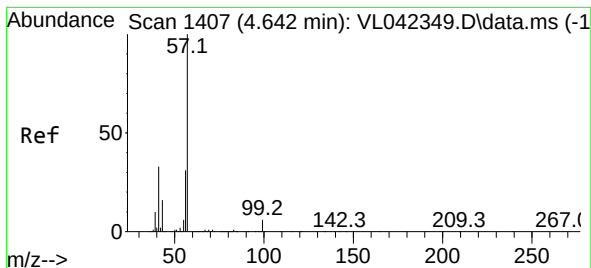
Tgt Ion: 78 Resp: 3080
Ion Ratio Lower Upper
78 100
77 25.5 17.4 26.0
50 52.0 15.5 23.3#



#39
1,2-Dichloropropane
Concen: 6.639 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. -0.356 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

Tgt Ion: 63 Resp: 76957
Ion Ratio Lower Upper
63 100
41 0.5 64.2 96.2#
62 15.5 54.3 81.5#





#44

2,2,4-Trimethylpentane

Concen: 1.018 ppbv

RT: 4.641 min Scan# 1407

Delta R.T. -0.000 min

Lab File: VL042376.D

Acq: 18 Apr 2025 01:30

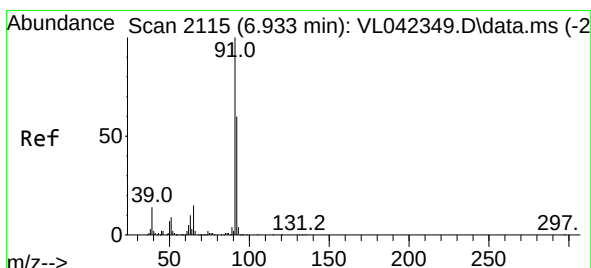
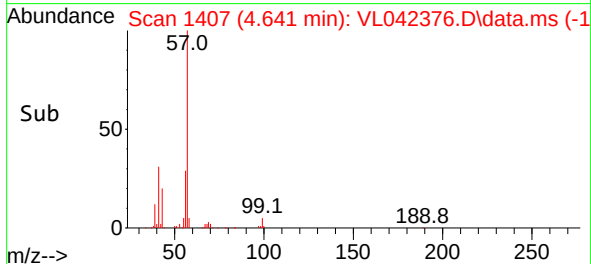
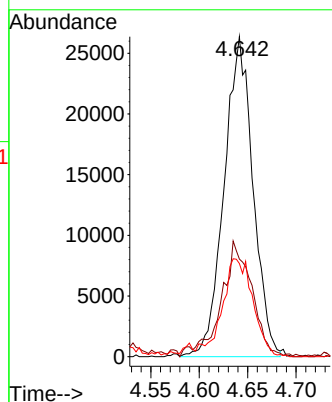
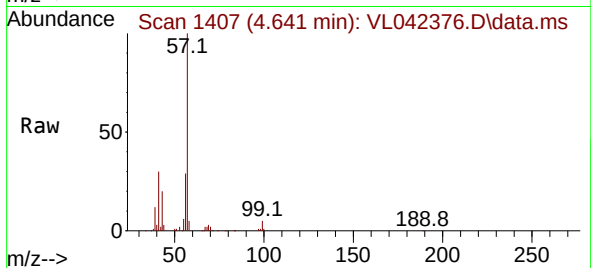
Instrument :

MSVOA_L

ClientSampleId :

IA-DUP-3-03312025DL

Tgt Ion:	57	Resp:	54714
Ion	Ratio	Lower	Upper
57	100		
41	38.6	27.2	40.8
56	34.7	25.7	38.5



#53

Toluene

Concen: 2.874 ppbv

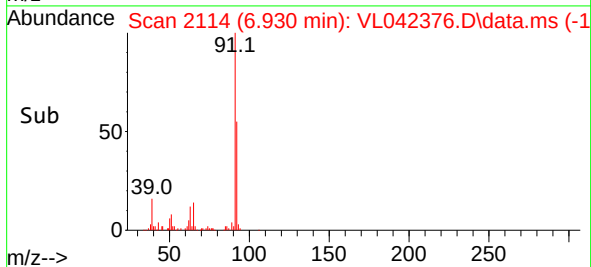
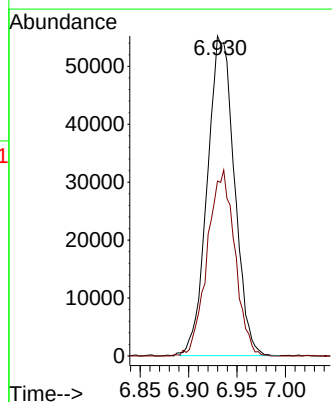
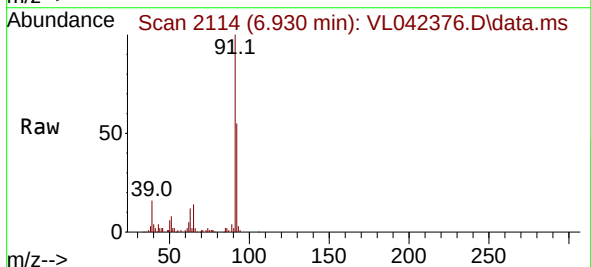
RT: 6.930 min Scan# 2114

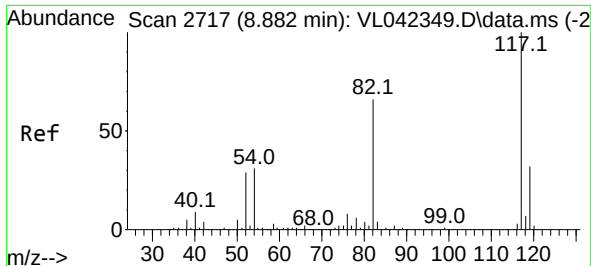
Delta R.T. -0.003 min

Lab File: VL042376.D

Acq: 18 Apr 2025 01:30

Tgt Ion:	91	Resp:	107299
Ion	Ratio	Lower	Upper
91	100		
92	59.1	48.2	72.4

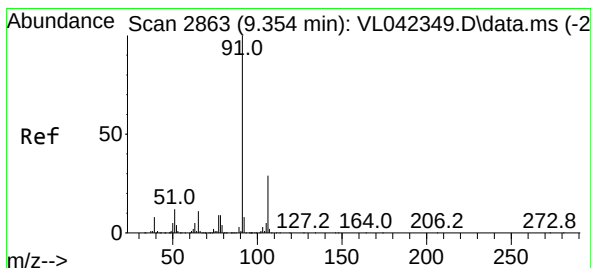
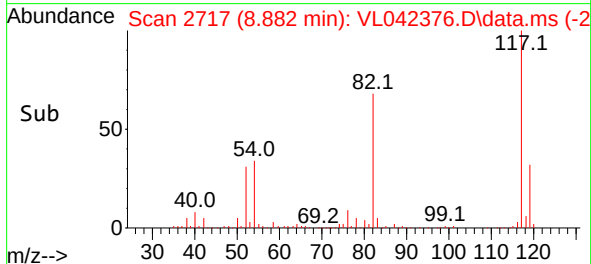
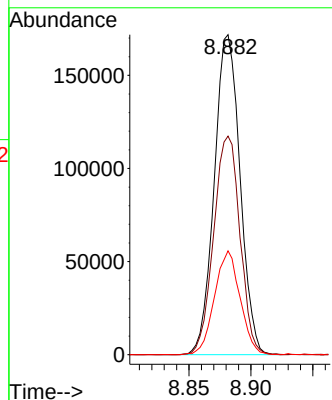
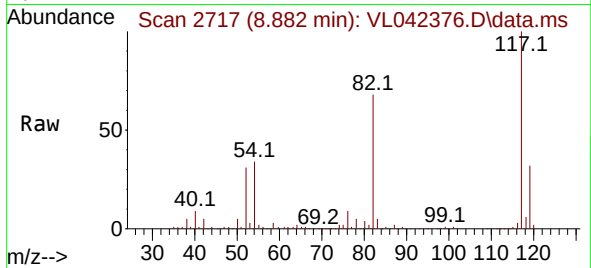




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

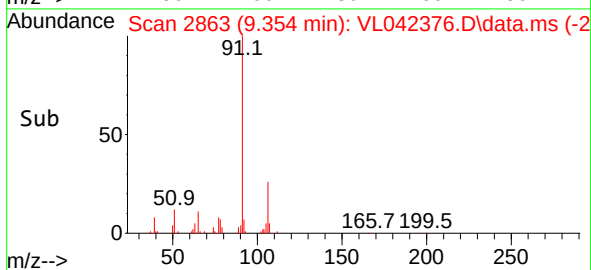
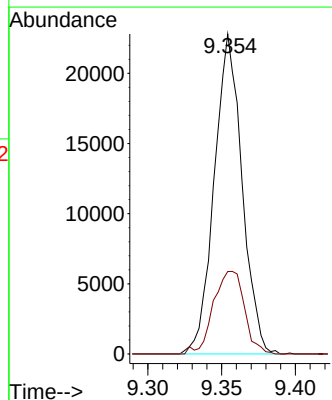
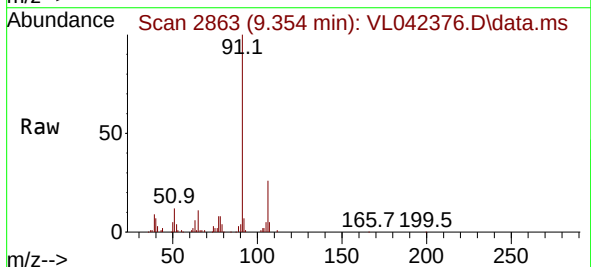
Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL

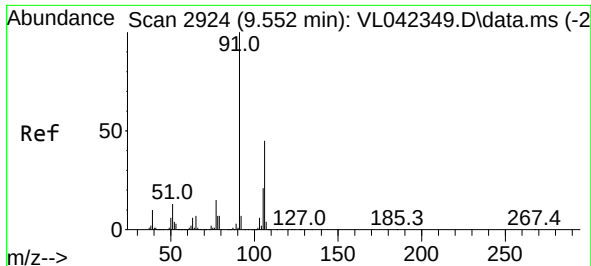
Tgt Ion:117 Resp: 249449
Ion Ratio Lower Upper
117 100
82 69.7 57.8 86.6
119 32.2 25.2 37.8



#58
Ethyl Benzene
Concen: 0.605 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. -0.000 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

Tgt Ion: 91 Resp: 29882
Ion Ratio Lower Upper
91 100
106 25.8 23.0 34.4





#59

m/p-Xylene

Concen: 2.217 ppbv

RT: 9.529 min Scan# 2917

Delta R.T. -0.023 min

Lab File: VL042376.D

Acq: 18 Apr 2025 01:30

Instrument :

MSVOA_1

ClientSampleId :

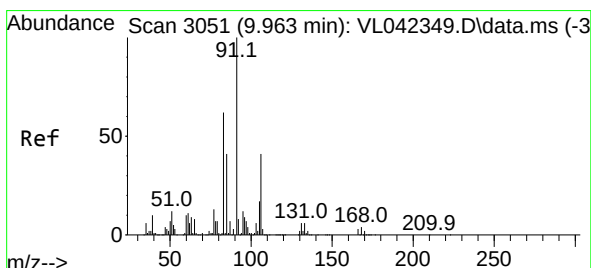
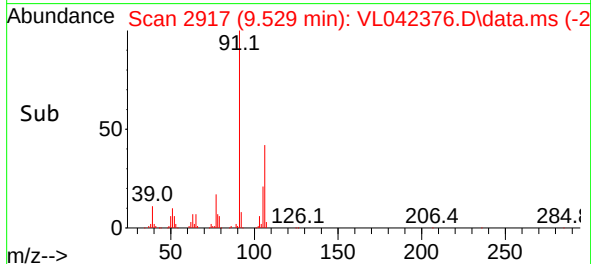
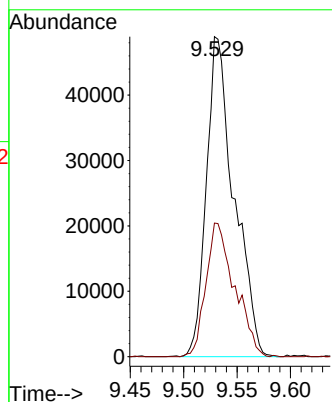
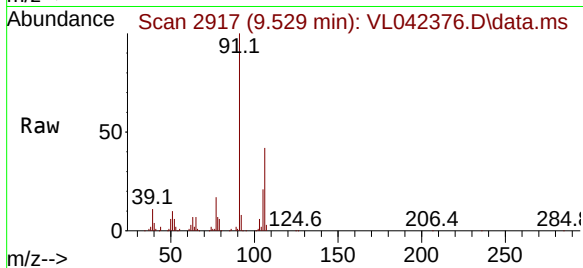
IA-DUP-3-03312025DL

Tgt Ion: 91 Resp: 88263

Ion Ratio Lower Upper

91 100

106 43.4 35.4 53.2



#60

o-Xylene

Concen: 0.859 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. -0.000 min

Lab File: VL042376.D

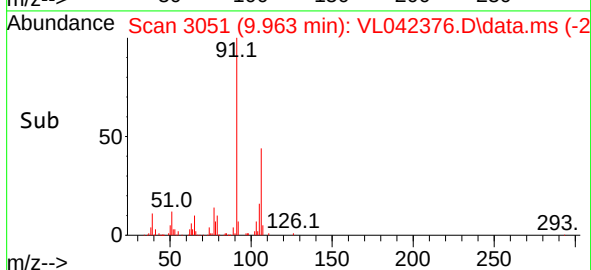
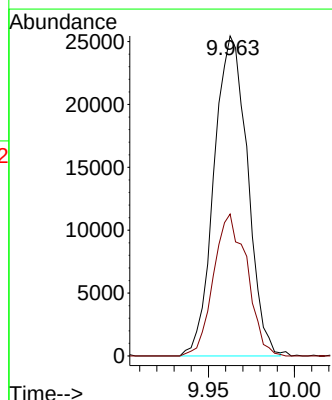
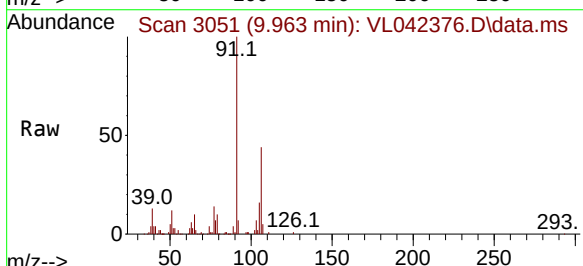
Acq: 18 Apr 2025 01:30

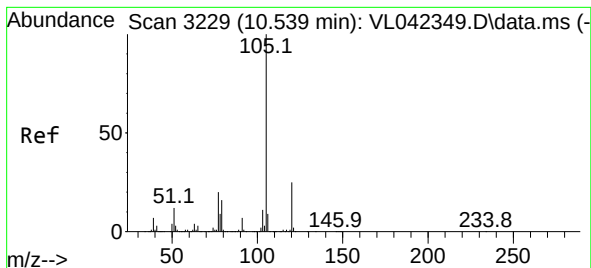
Tgt Ion: 91 Resp: 34430

Ion Ratio Lower Upper

91 100

106 44.3 21.1 63.4





#62

Isopropylbenzene

Concen: 0.059 ppbv

RT: 10.542 min Scan# 31

Delta R.T. 0.003 min

Lab File: VL042376.D

Acq: 18 Apr 2025 01:30

Instrument :

MSVOA_1

ClientSampleId :

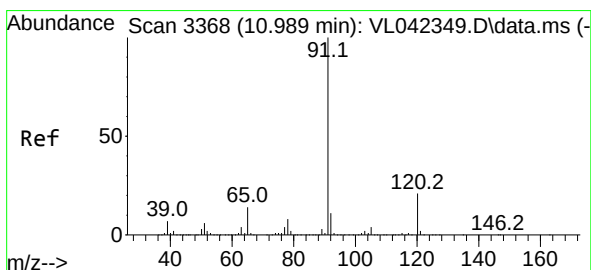
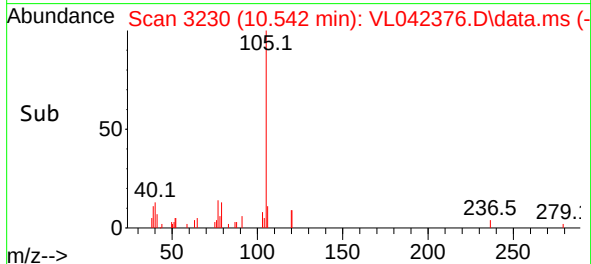
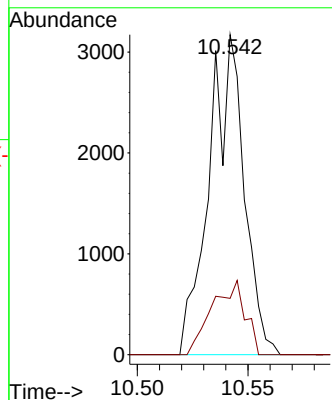
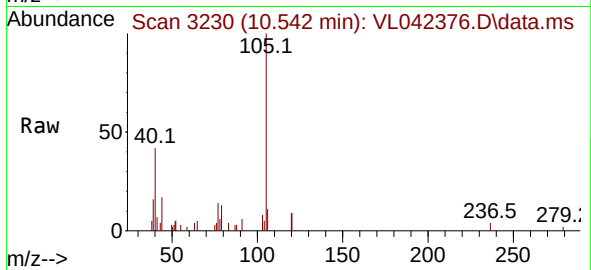
IA-DUP-3-03312025DL

Tgt Ion:105 Resp: 3486

Ion Ratio Lower Upper

105 100

120 22.0 19.8 29.8



#64

n-propylbenzene

Concen: 0.158 ppbv

RT: 10.992 min Scan# 3369

Delta R.T. 0.003 min

Lab File: VL042376.D

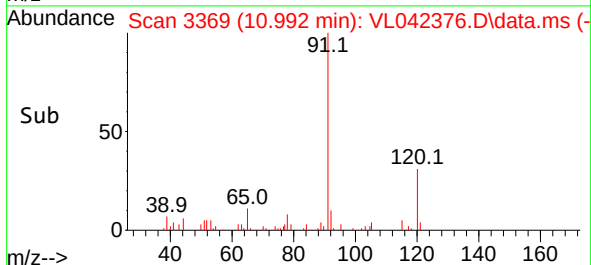
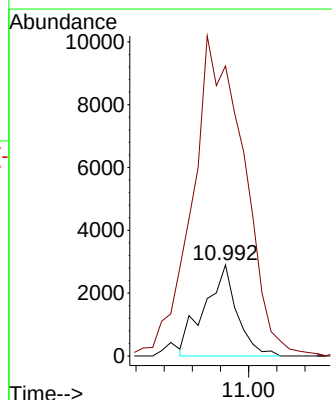
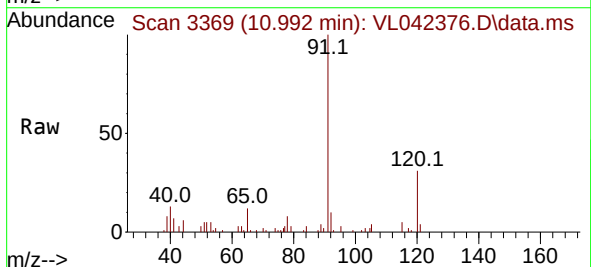
Acq: 18 Apr 2025 01:30

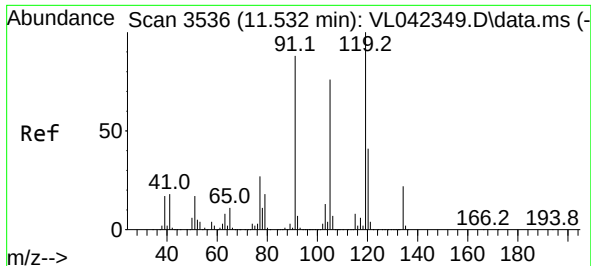
Tgt Ion:120 Resp: 2336

Ion Ratio Lower Upper

120 100

91 559.2 392.4 588.6

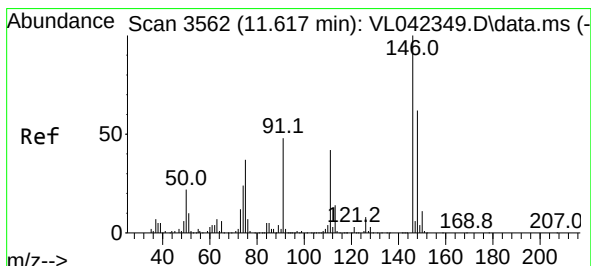
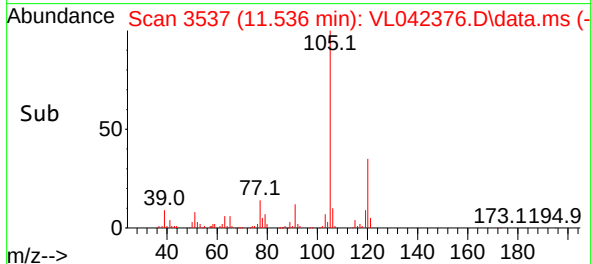
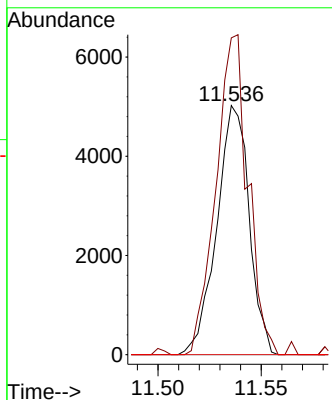
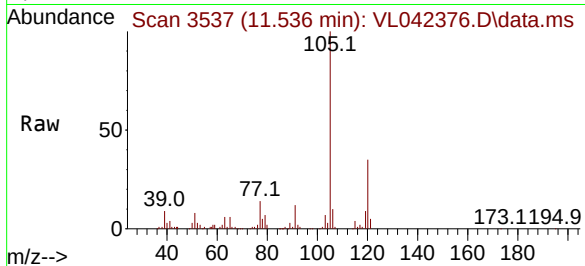




#65
tert-Butylbenzene
Concen: 0.101 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. 0.003 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

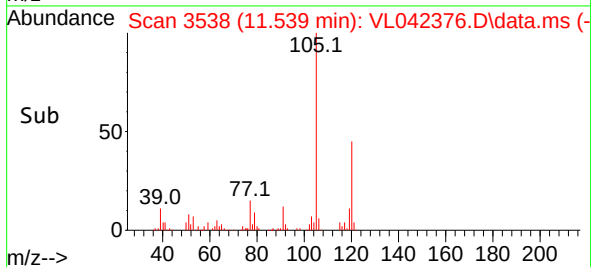
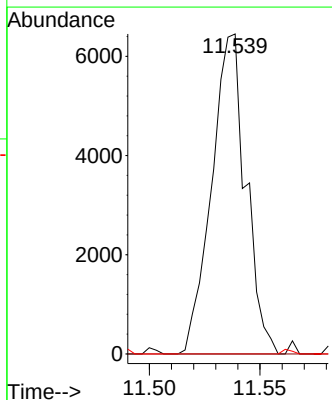
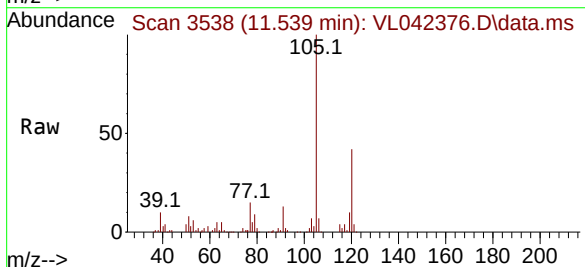
Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL

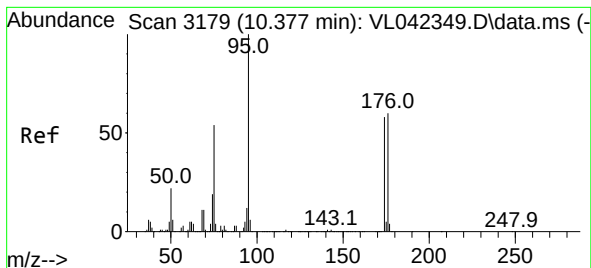
Tgt Ion:119 Resp: 5490
Ion Ratio Lower Upper
119 100
91 128.3 74.6 111.8#
134 0.0 18.8 28.2#



#66
Benzyl Chloride
Concen: 1.170 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. -0.078 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

Tgt Ion: 91 Resp: 6956
Ion Ratio Lower Upper
91 100
126 0.1 11.8 17.6#
128 0.4 4.5 6.7#

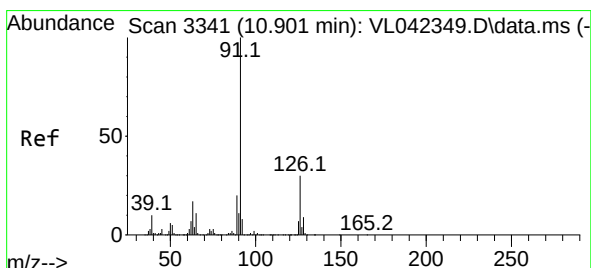
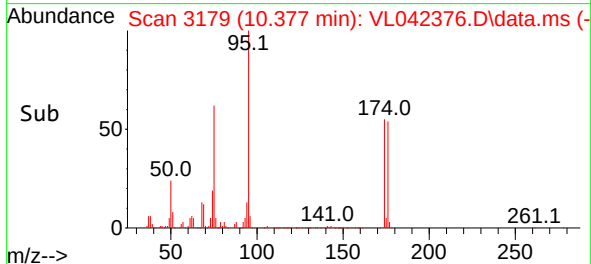
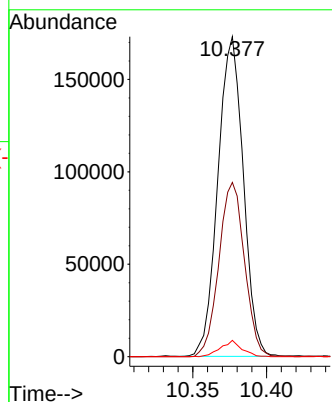
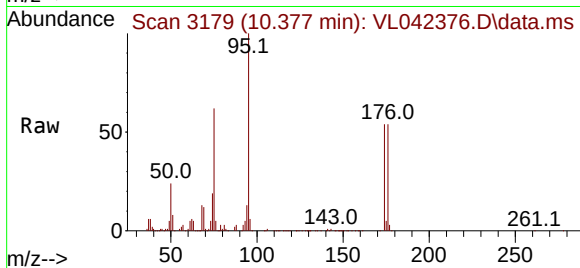




#68
1-Bromo-4-Fluorobenzene
Concen: 10.106 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. -0.000 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

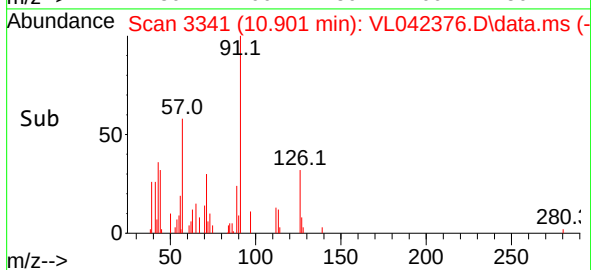
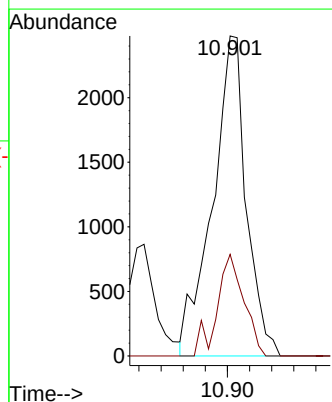
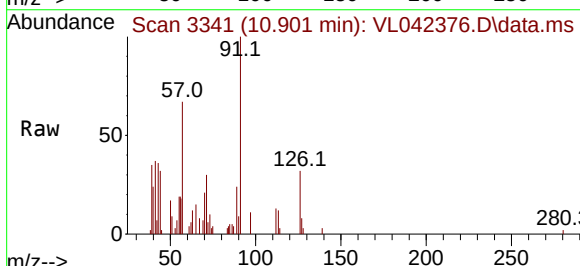
Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL

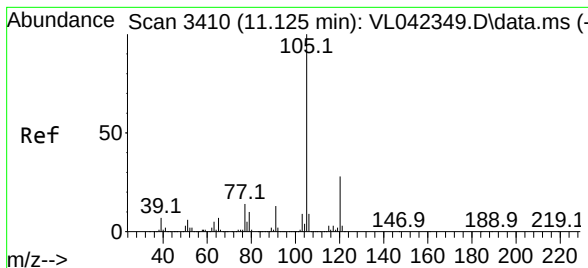
Tgt Ion: 95 Resp: 207163
Ion Ratio Lower Upper
95 100
174 54.9 48.5 72.7
175 4.3 3.7 5.5



#71
2-Chlorotoluene
Concen: 0.057 ppbv
RT: 10.901 min Scan# 3341
Delta R.T. -0.000 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

Tgt Ion: 91 Resp: 2632
Ion Ratio Lower Upper
91 100
126 25.2 11.4 45.4

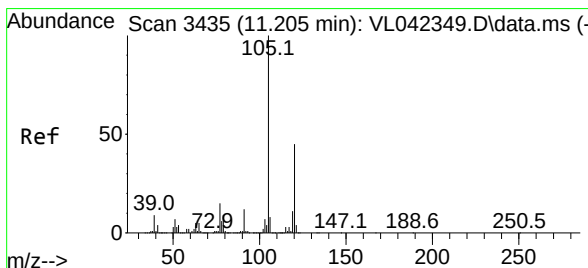
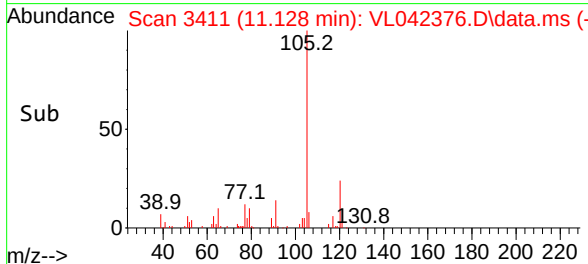
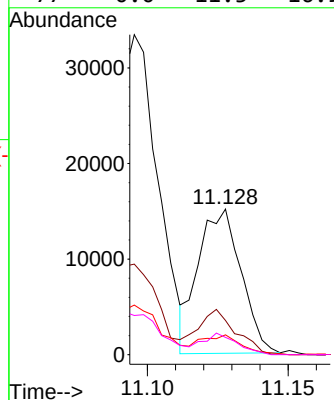
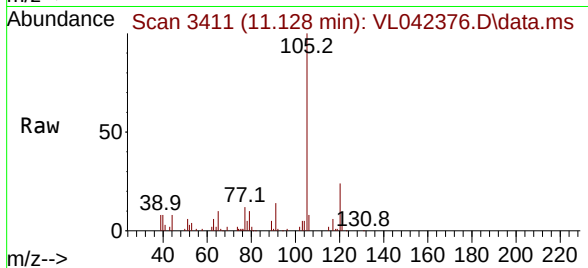




#72
4-Ethyltoluene
Concen: 0.325 ppbv
RT: 11.128 min Scan# 3410
Delta R.T. 0.003 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

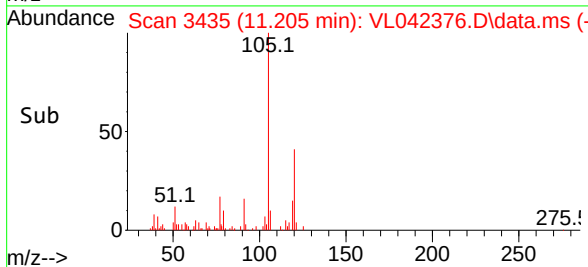
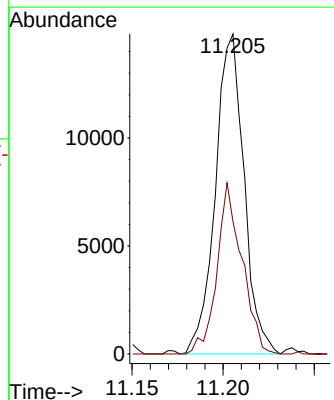
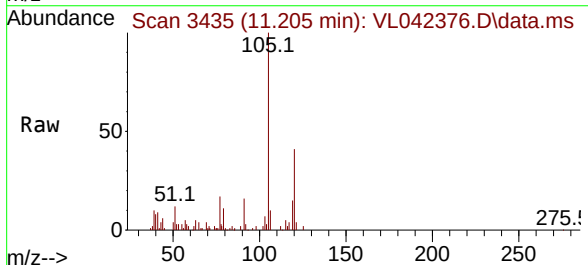
Instrument :
MSVOA_1
ClientSampleId :
IA-DUP-3-03312025DL

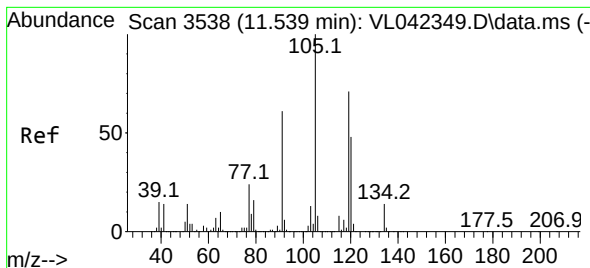
Tgt Ion:105 Resp: 15927
Ion Ratio Lower Upper
105 100
120 0.0 23.2 34.8#
91 0.0 10.4 15.6#
77 0.0 11.3 16.9#



#73
1,3,5-Trimethylbenzene
Concen: 0.375 ppbv
RT: 11.205 min Scan# 3435
Delta R.T. -0.000 min
Lab File: VL042376.D
Acq: 18 Apr 2025 01:30

Tgt Ion:105 Resp: 16220
Ion Ratio Lower Upper
105 100
120 41.4 35.6 53.4





#74

1,2,4-Trimethylbenzene

Concen: 1.132 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. -0.003 min

Lab File: VL042376.D

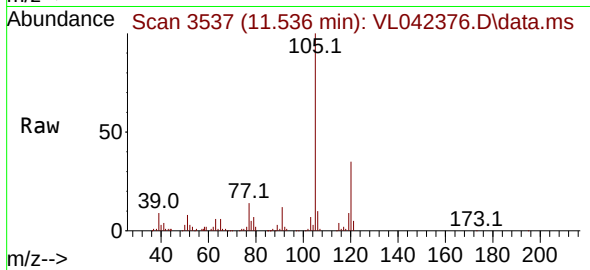
Acq: 18 Apr 2025 01:30

Instrument :

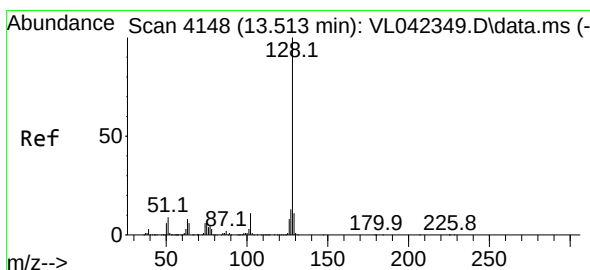
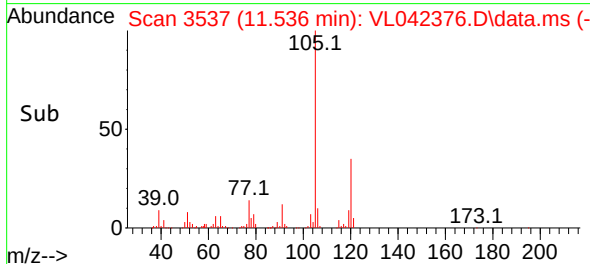
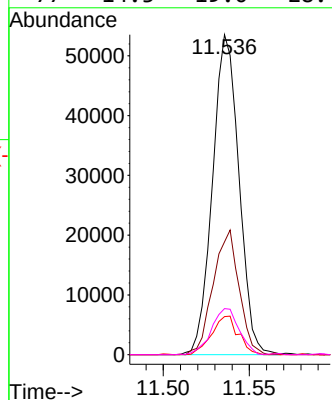
MSVOA_L

ClientSampleId :

IA-DUP-3-03312025DL



Tgt Ion:	105	Resp:	57208
Ion Ratio	Lower	Upper	
105	100		
120	35.2	38.1	57.1#
91	11.9	48.8	73.2#
77	14.3	19.0	28.4#



#79

Naphthalene

Concen: 0.076 ppbv

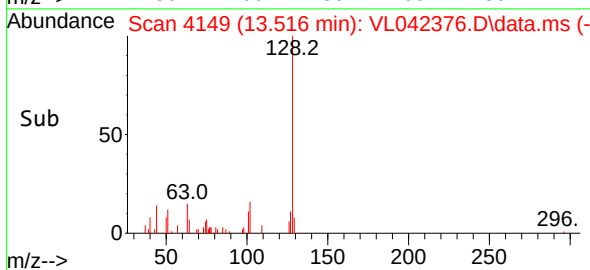
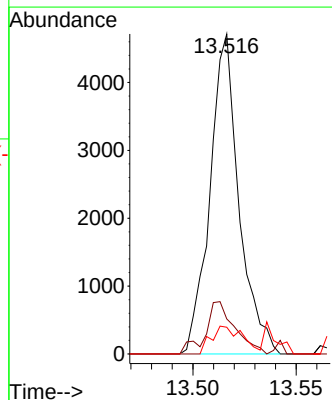
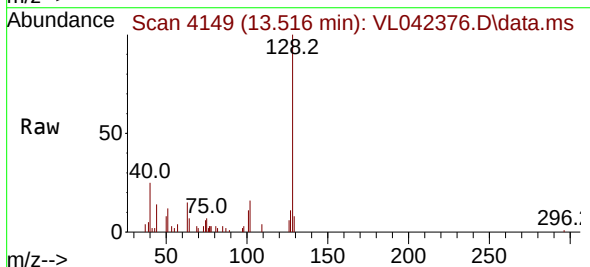
RT: 13.516 min Scan# 4149

Delta R.T. 0.003 min

Lab File: VL042376.D

Acq: 18 Apr 2025 01:30

Tgt Ion:	128	Resp:	4610
Ion Ratio	Lower	Upper	
128	100		
127	10.9	10.6	15.8
129	8.4	8.6	12.8#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042377.D
 Acq On : 18 Apr 2025 02:01
 Operator : SY/MD
 Sample : Q1726-02DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-6-03312025DL

Quant Time: Apr 18 04:40:09 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)

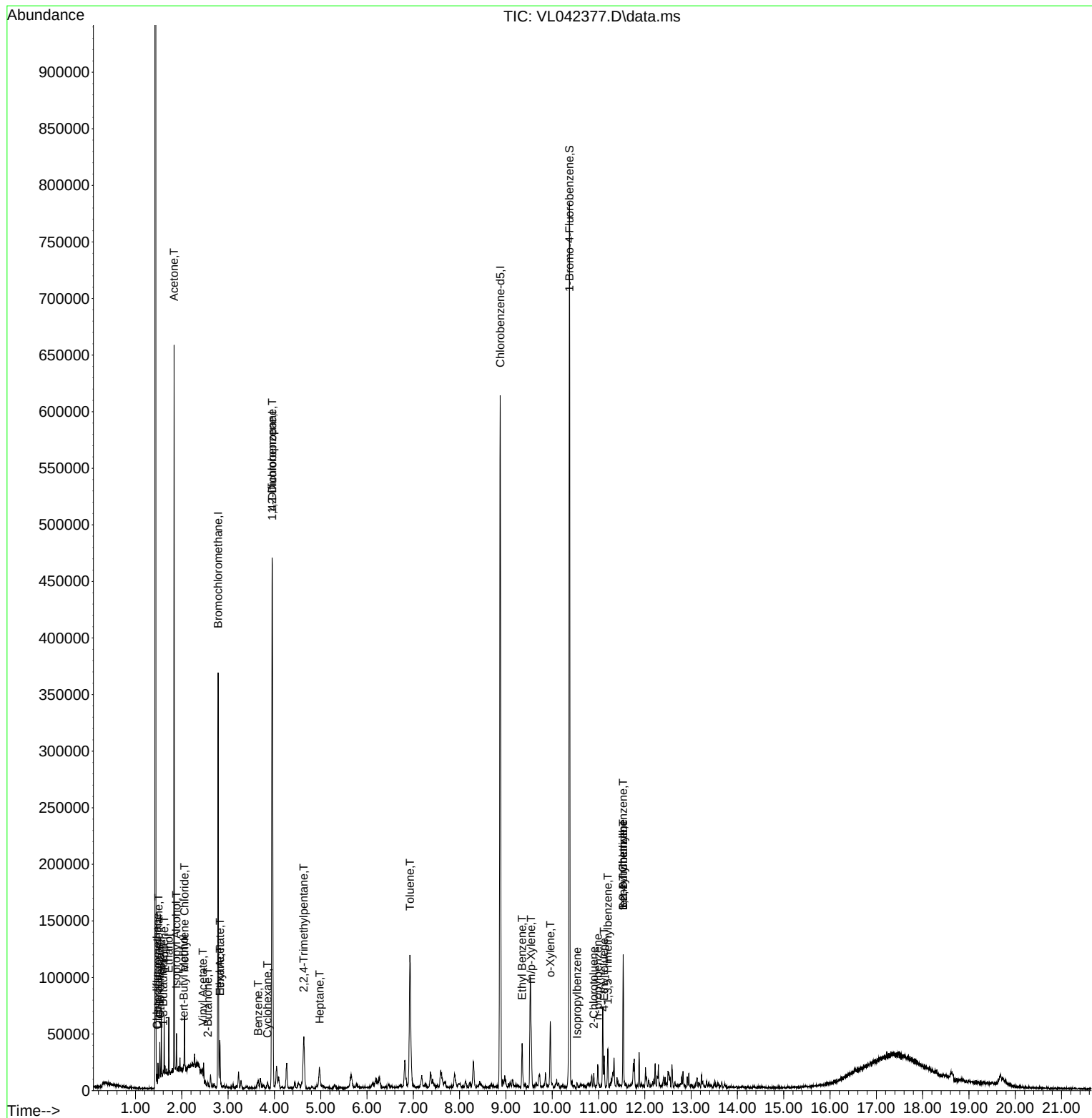
Internal Standards						
1) Bromochloromethane	2.784	49	99418	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	272592	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	237645	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	202954	10.393	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.900%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.496	85	855	0.049	ppbv #	77
3) Chlorodifluoromethane	1.463	51	2780	0.166	ppbv #	88
4) Chloromethane	1.531	50	2346	0.337	ppbv	99
9) Propene	1.619	41	5227	0.686	ppbv	92
10) Heptane	4.975	43	4130	0.193	ppbv #	12
13) Ethanol	1.719	45	17233	14.234	ppbv	84
15) Acetone	1.832	43	269648	16.568	ppbv	98
16) 1,3-Butadiene	1.599	39	621	0.080	ppbv #	75
17) tert-Butyl alcohol	2.043	59	1350	0.067	ppbv #	1
19) Isopropyl Alcohol	1.884	45	13751	1.521	ppbv #	1
20) Methylene Chloride	2.059	84	5948	0.933	ppbv #	95
23) Vinyl Acetate	2.454	43	1337	0.203	ppbv #	1
25) Ethyl Acetate	2.823	43	7282	0.181	ppbv #	87
26) Hexane	2.823	57	9658	0.595	ppbv #	31
30) Cyclohexane	3.852	84	905	0.069	ppbv #	14
34) 2-Butanone	2.560	43	2582	0.120	ppbv #	88
36) Benzene	3.651	78	2479	0.084	ppbv #	90
39) 1,2-Dichloropropane	3.952	63	74190	6.771	ppbv #	22
44) 2,2,4-Trimethylpentane	4.635	57	39733	0.782	ppbv #	90
53) Toluene	6.927	91	79886	2.264	ppbv	100
58) Ethyl Benzene	9.348	91	21503	0.457	ppbv	98
59) m/p-Xylene	9.545	91	13227	0.349	ppbv #	32
60) o-Xylene	9.959	91	25512	0.668	ppbv	97
62) Isopropylbenzene	10.539	105	2498	0.045	ppbv	95
64) n-propylbenzene	10.982	120	1664	0.118	ppbv #	57
65) tert-Butylbenzene	11.532	119	4564	0.089	ppbv #	73
66) Benzyl Chloride	11.532	91	5150	0.909	ppbv #	70
71) 2-Chlorotoluene	10.898	91	2213	0.050	ppbv	92
72) 4-Ethyltoluene	11.121	105	10921	0.234	ppbv #	64
73) 1,3,5-Trimethylbenzene	11.202	105	11199	0.272	ppbv #	84
74) 1,2,4-Trimethylbenzene	11.532	105	41057	0.853	ppbv #	66

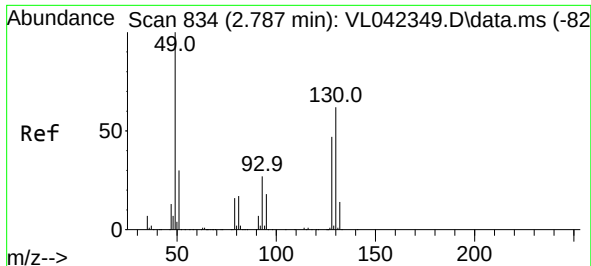
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042377.D
Acq On : 18 Apr 2025 02:01
Operator : SY/MD
Sample : Q1726-02DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL

Quant Time: Apr 18 04:40:09 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

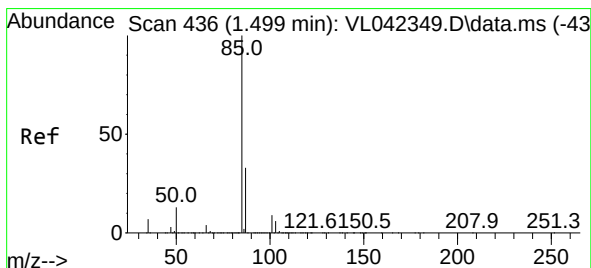
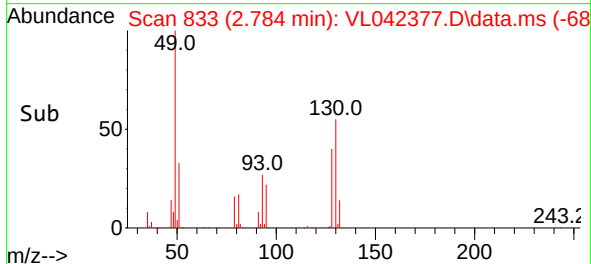
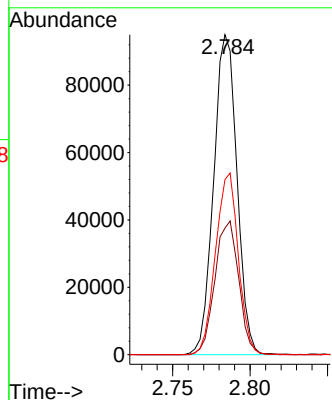
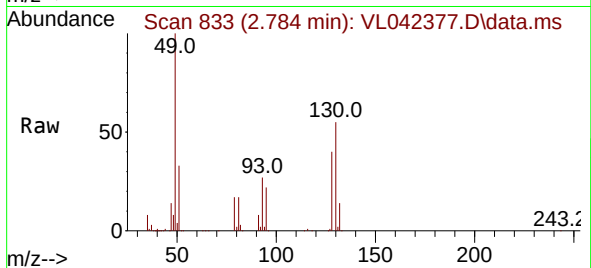




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

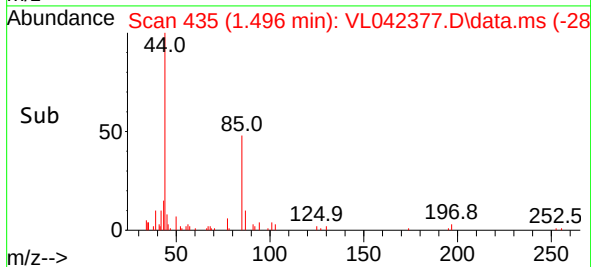
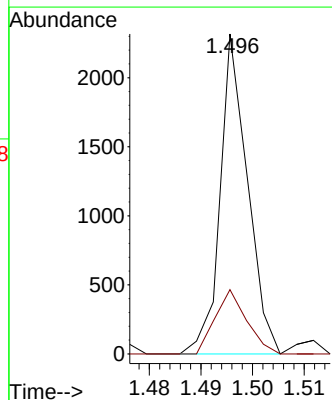
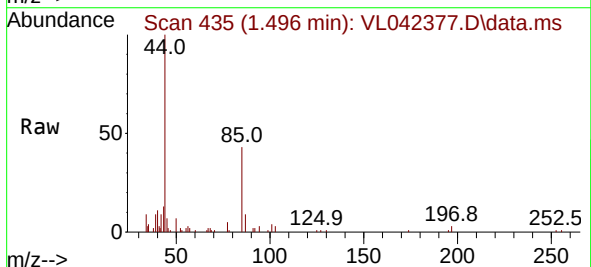
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL

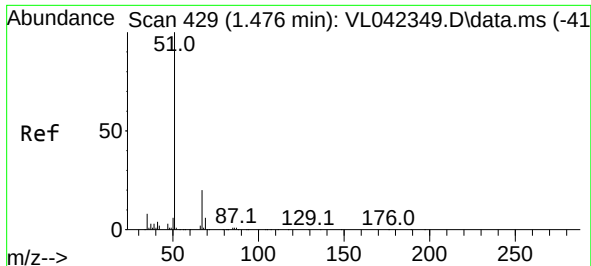
Tgt Ion: 49 Resp: 99418
Ion Ratio Lower Upper
49 100
128 42.9 22.8 68.4
130 55.5 29.3 88.0



#2
Dichlorodifluoromethane
Concen: 0.049 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

Tgt Ion: 85 Resp: 855
Ion Ratio Lower Upper
85 100
87 20.1 26.6 39.8#

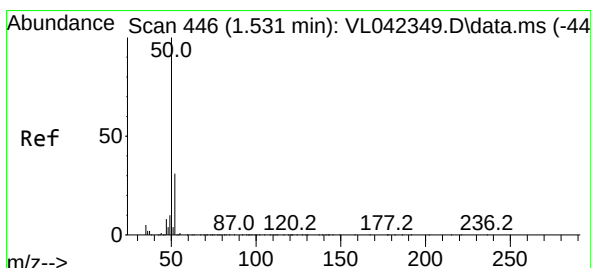
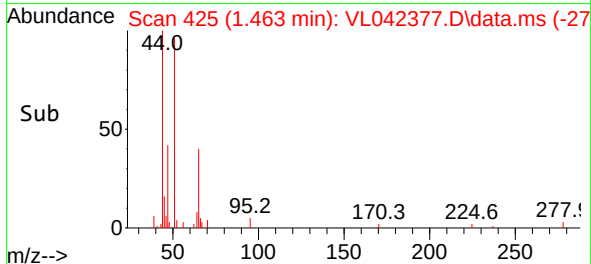
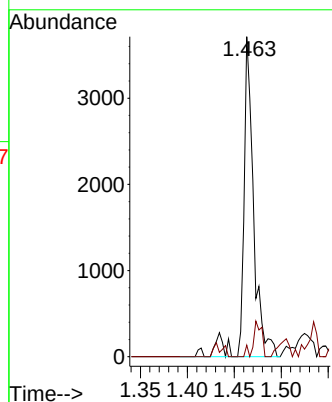
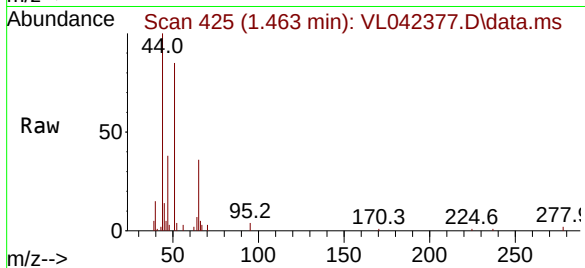




#3
Chlorodifluoromethane
Concen: 0.166 ppbv
RT: 1.463 min Scan# 41
Delta R.T. -0.013 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

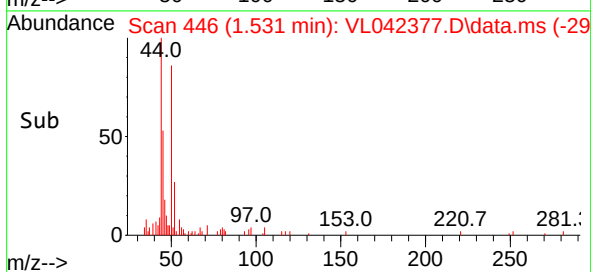
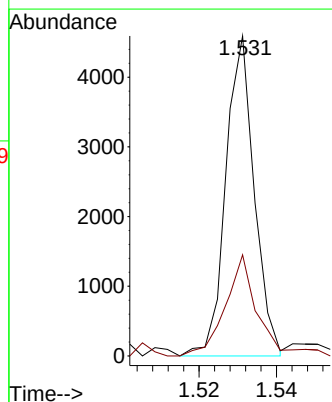
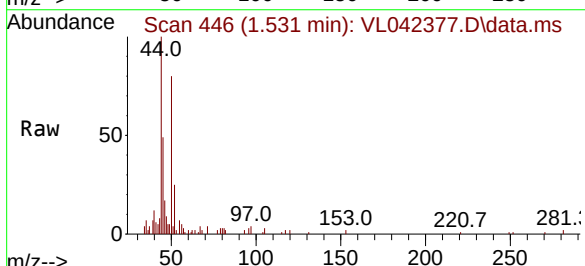
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL

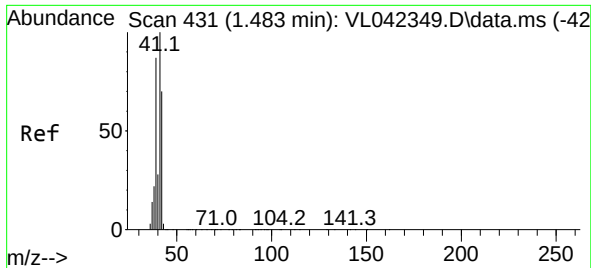
Tgt Ion: 51 Resp: 2780
Ion Ratio Lower Upper
51 100
67 15.0 16.2 24.4#



#4
Chloromethane
Concen: 0.337 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

Tgt Ion: 50 Resp: 2346
Ion Ratio Lower Upper
50 100
52 31.6 24.7 37.1





#9

Propene

Concen: 0.686 ppbv

RT: 1.619 min Scan# 41

Delta R.T. 0.136 min

Lab File: VL042377.D

Acq: 18 Apr 2025 02:01

Instrument :

MSVOA_L

ClientSampleId :

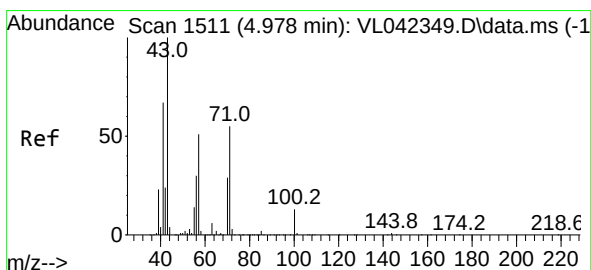
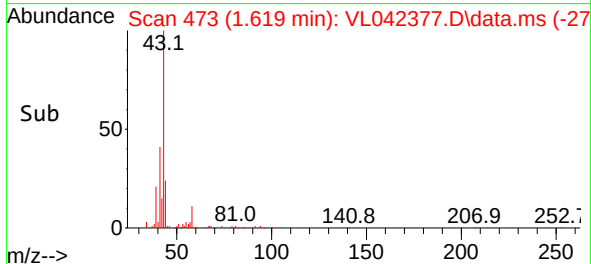
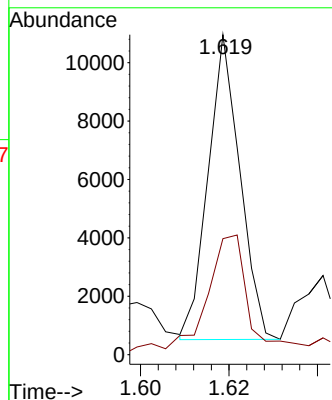
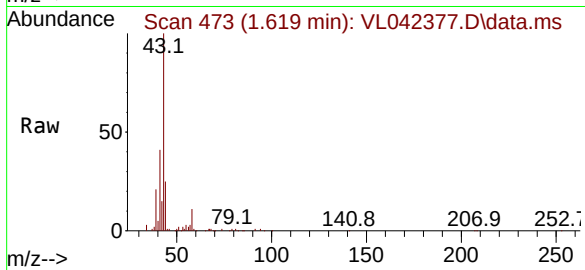
IA-B2-6-03312025DL

Tgt Ion: 41 Resp: 5227

Ion Ratio Lower Upper

41 100

42 63.9 56.2 84.4



#10

Heptane

Concen: 0.193 ppbv

RT: 4.975 min Scan# 1510

Delta R.T. -0.003 min

Lab File: VL042377.D

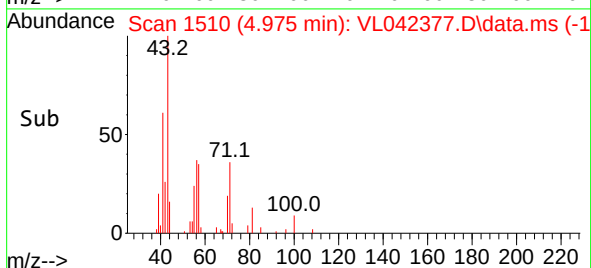
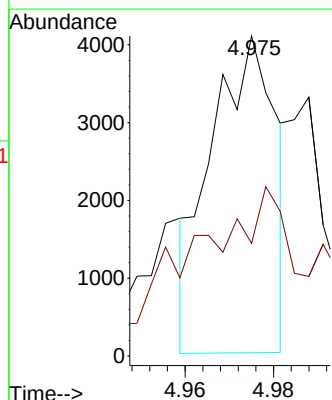
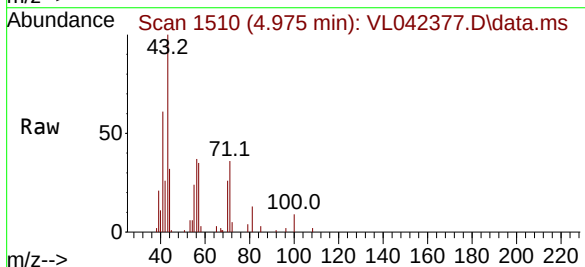
Acq: 18 Apr 2025 02:01

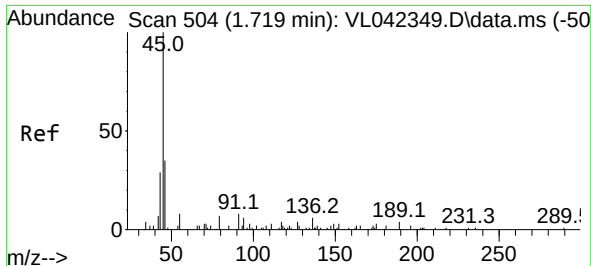
Tgt Ion: 43 Resp: 4130

Ion Ratio Lower Upper

43 100

57 110.7 39.9 59.9#

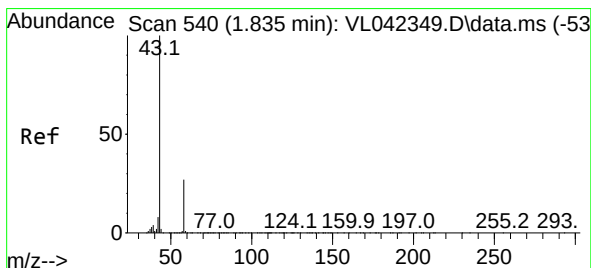
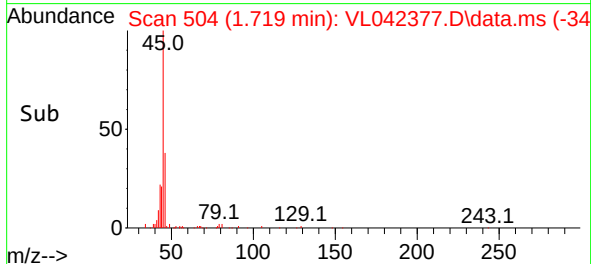
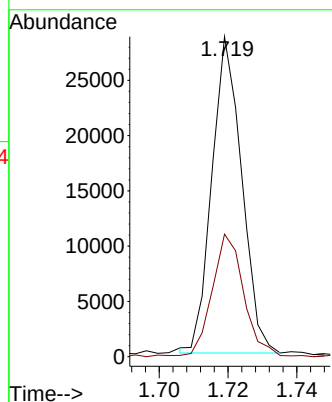
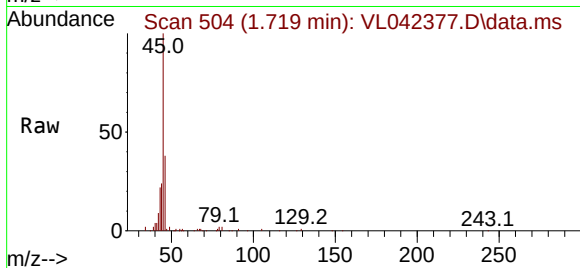




#13
Ethanol
Concen: 14.234 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

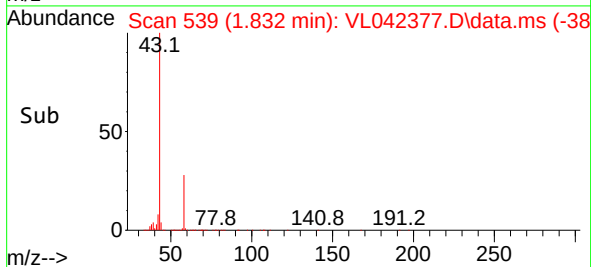
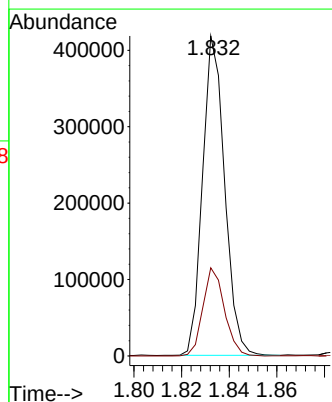
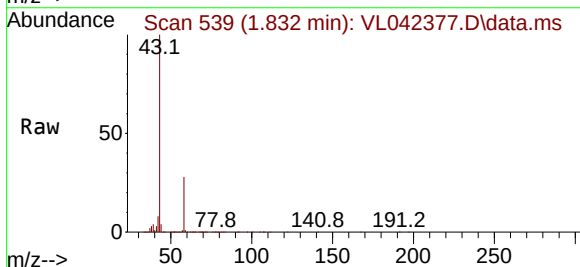
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL

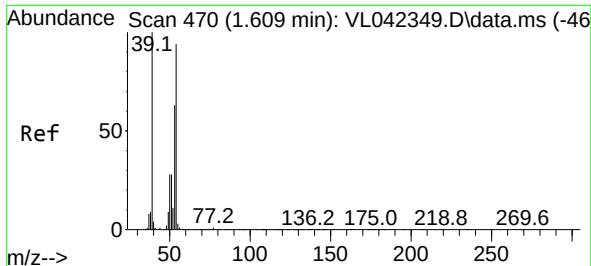
Tgt Ion: 45 Resp: 17233
Ion Ratio Lower Upper
45 100
46 43.5 21.9 87.7



#15
Acetone
Concen: 16.568 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.003 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

Tgt Ion: 43 Resp: 269648
Ion Ratio Lower Upper
43 100
58 27.0 22.4 33.6

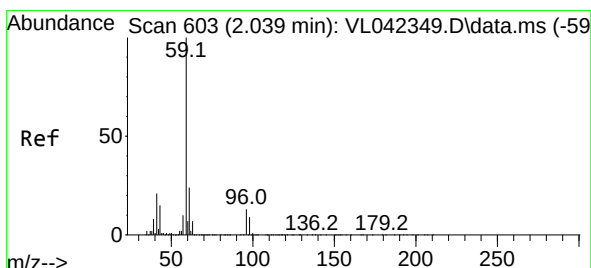
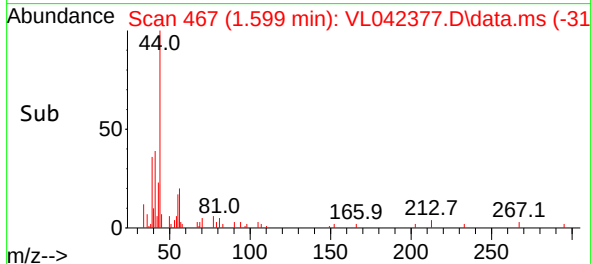
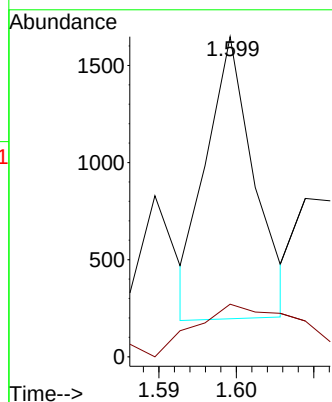
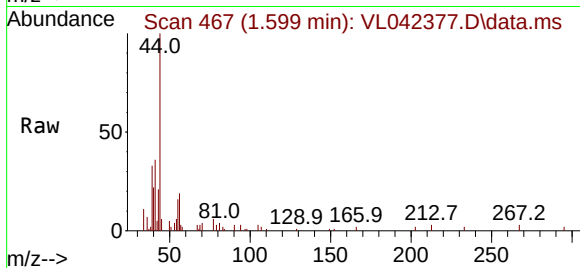




#16
1,3-Butadiene
Concen: 0.080 ppbv
RT: 1.599 min Scan# 41
Delta R.T. -0.010 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

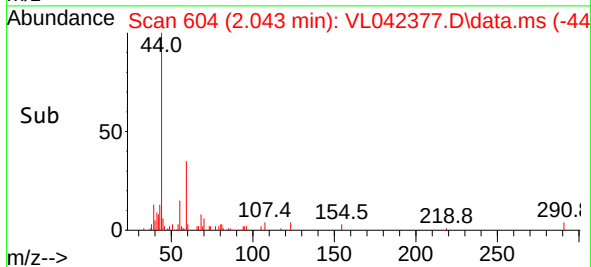
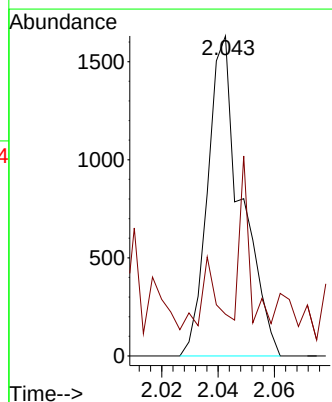
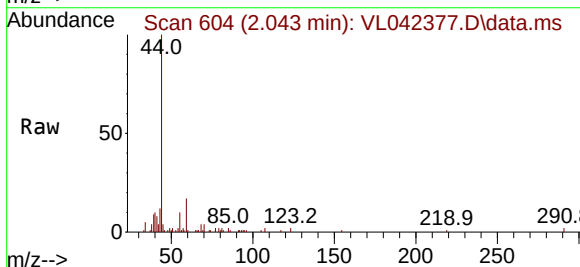
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL

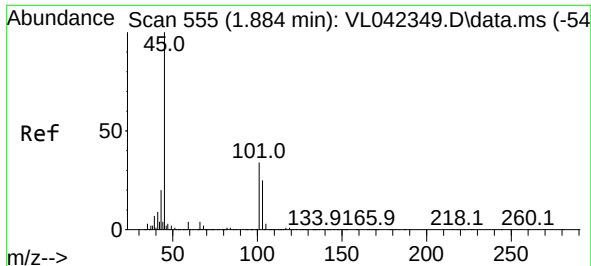
Tgt Ion: 39 Resp: 621
Ion Ratio Lower Upper
39 100
54 58.5 64.9 97.3#



#17
tert-Butyl alcohol
Concen: 0.067 ppbv
RT: 2.043 min Scan# 604
Delta R.T. 0.003 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

Tgt Ion: 59 Resp: 1350
Ion Ratio Lower Upper
59 100
57 81.9 8.7 13.1#

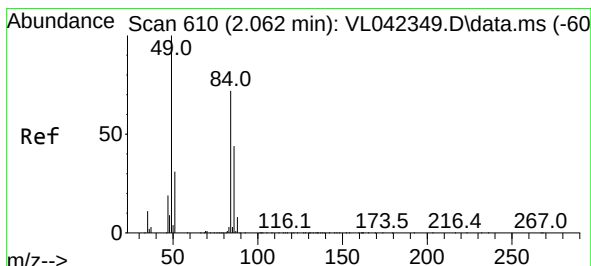
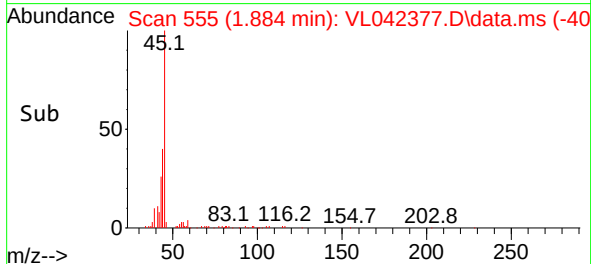
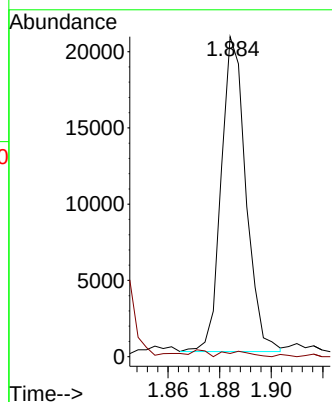
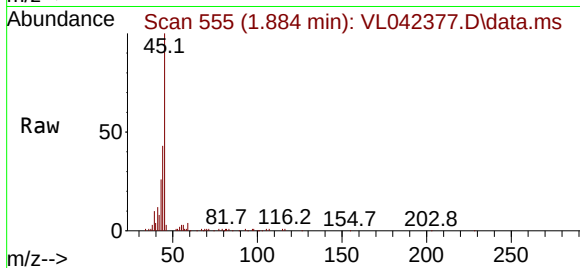




#19
Isopropyl Alcohol
Concen: 1.521 ppbv
RT: 1.884 min Scan# 51
Delta R.T. 0.000 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

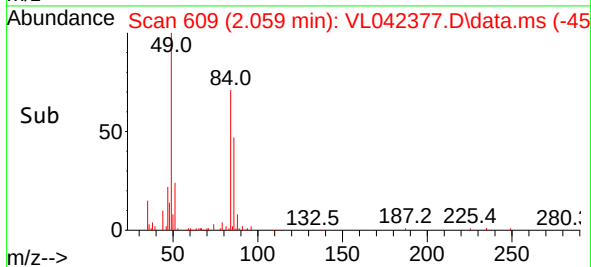
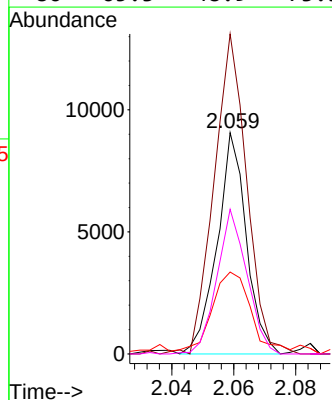
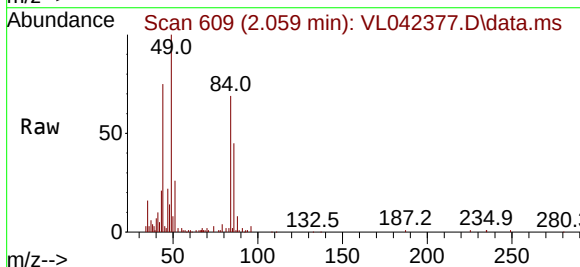
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL

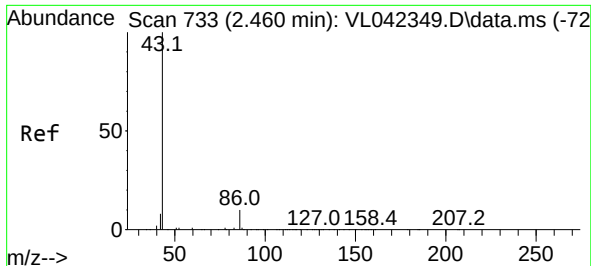
Tgt Ion: 45 Resp: 13751
Ion Ratio Lower Upper
45 100
58 530.4 34.5 51.7#



#20
Methylene Chloride
Concen: 0.933 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.003 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

Tgt Ion: 84 Resp: 5948
Ion Ratio Lower Upper
84 100
49 142.8 111.6 167.4
51 35.1 35.1 52.7#
86 65.3 48.9 73.3

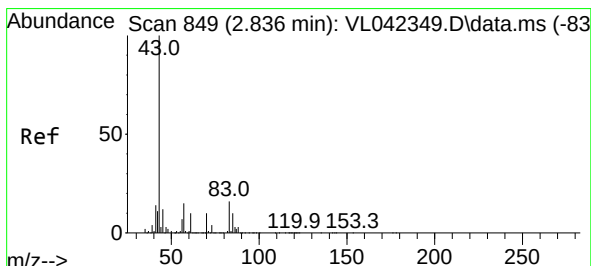
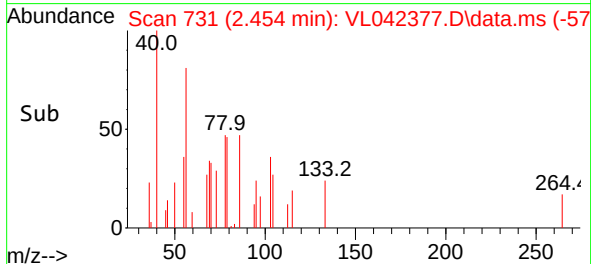
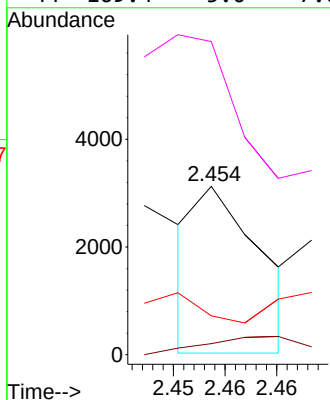
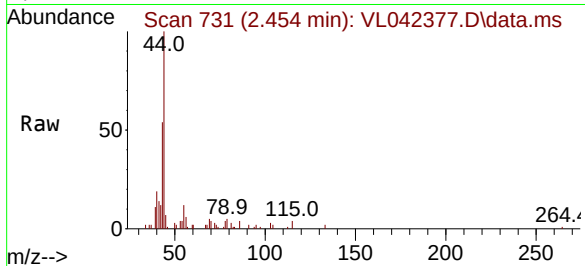




#23
 Vinyl Acetate
 Concen: 0.203 ppbv
 RT: 2.454 min Scan# 71
 Delta R.T. -0.006 min
 Lab File: VL042377.D
 Acq: 18 Apr 2025 02:01

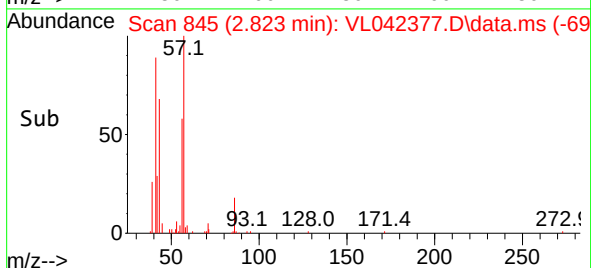
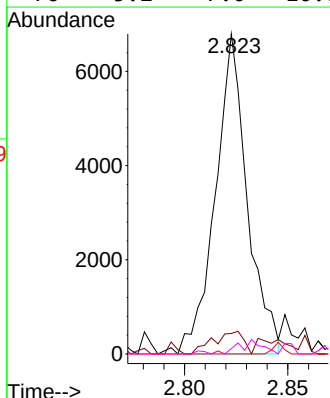
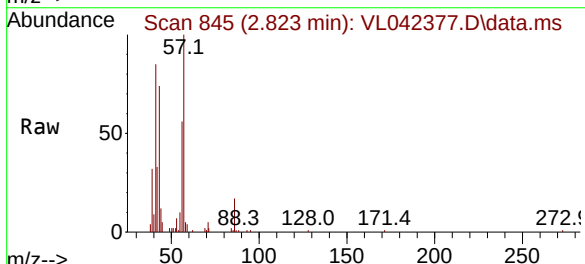
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-6-03312025DL

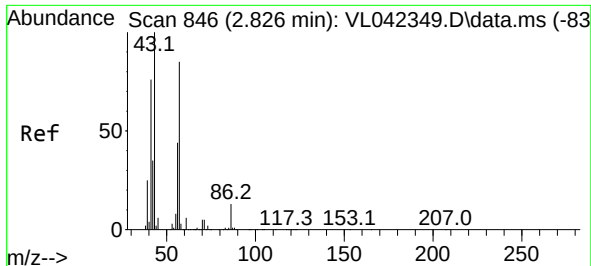
Tgt Ion:	43	Resp:	1337
Ion	Ratio	Lower	Upper
43	100		
86	5.5	6.5	9.7#
42	0.0	7.8	11.8#
44	169.4	5.0	7.6#



#25
 Ethyl Acetate
 Concen: 0.181 ppbv
 RT: 2.823 min Scan# 845
 Delta R.T. -0.013 min
 Lab File: VL042377.D
 Acq: 18 Apr 2025 02:01

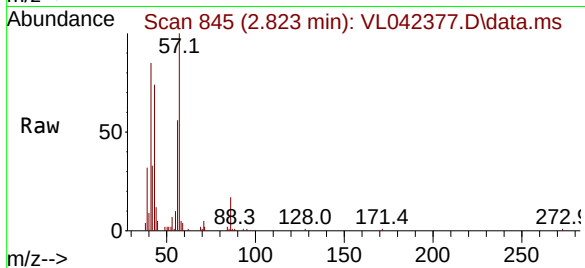
Tgt Ion:	43	Resp:	7282
Ion	Ratio	Lower	Upper
43	100		
45	12.2	8.3	12.5
61	0.0	7.3	10.9#
70	5.2	7.0	10.6#



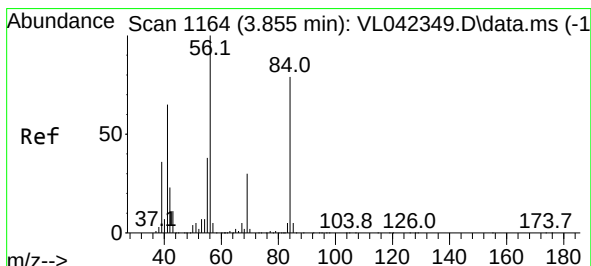
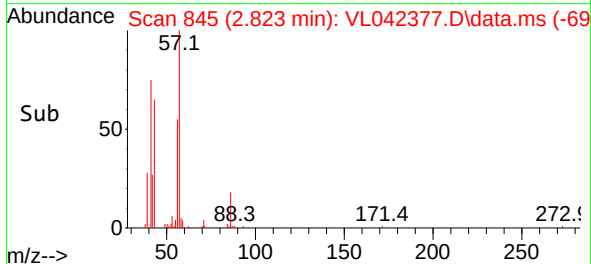
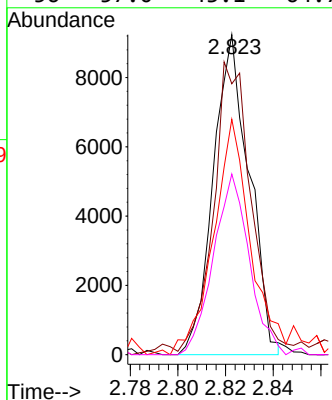


#26
Hexane
Concen: 0.595 ppbv
RT: 2.823 min Scan# 846
Delta R.T. -0.003 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL

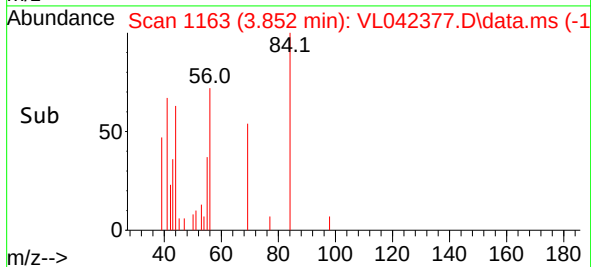
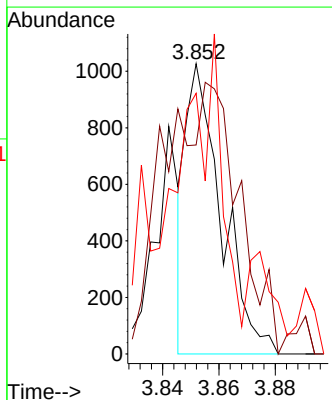
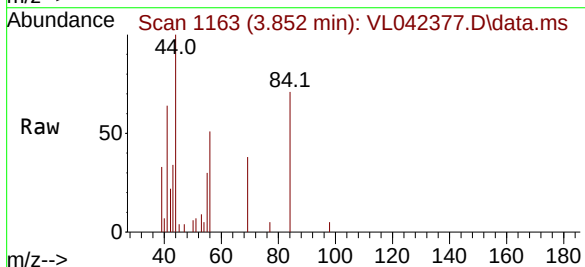


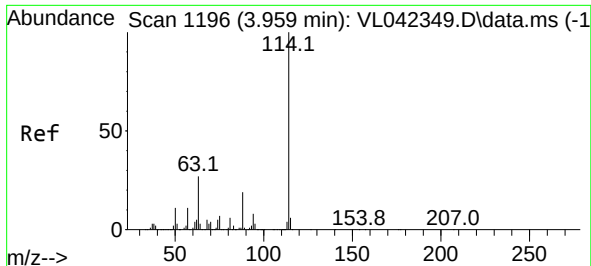
Tgt Ion: 57 Resp: 9658
Ion Ratio Lower Upper
57 100
41 103.4 77.9 116.9
43 70.9 208.4 312.6#
56 57.0 43.1 64.7



#30
Cyclohexane
Concen: 0.069 ppbv
RT: 3.852 min Scan# 1163
Delta R.T. -0.003 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

Tgt Ion: 84 Resp: 905
Ion Ratio Lower Upper
84 100
56 205.2 101.0 151.4#
41 184.3 67.4 101.0#

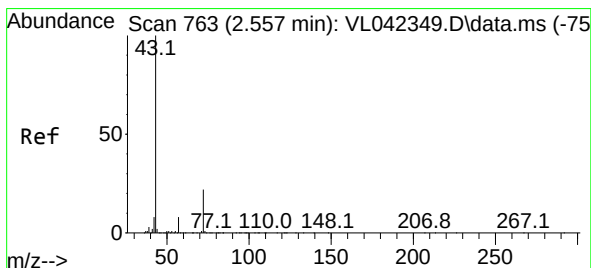
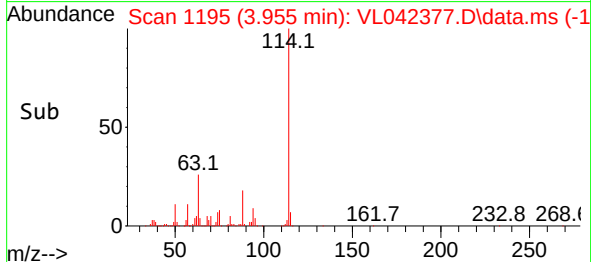
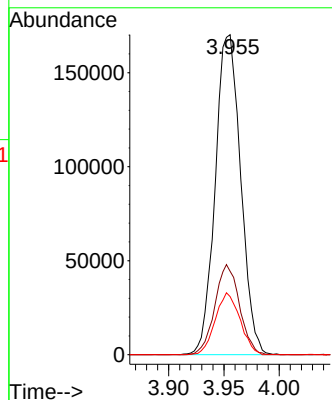
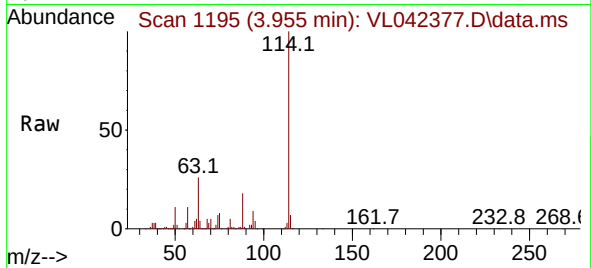




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.955 min Scan# 1195
 Delta R.T. -0.003 min
 Lab File: VL042377.D
 Acq: 18 Apr 2025 02:01

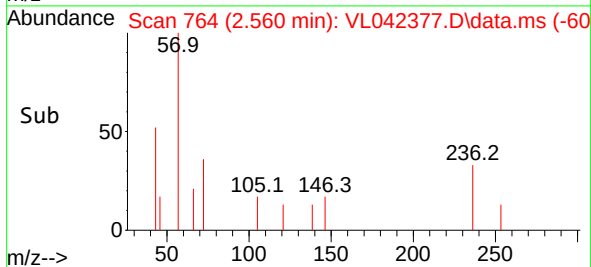
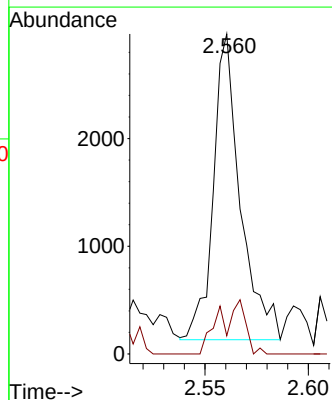
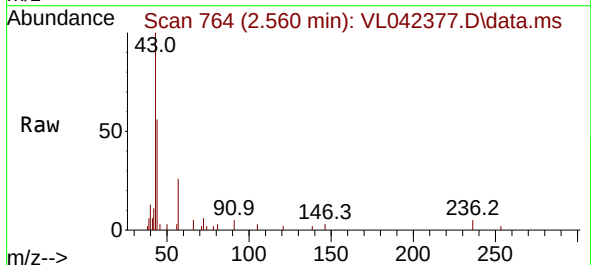
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-6-03312025DL

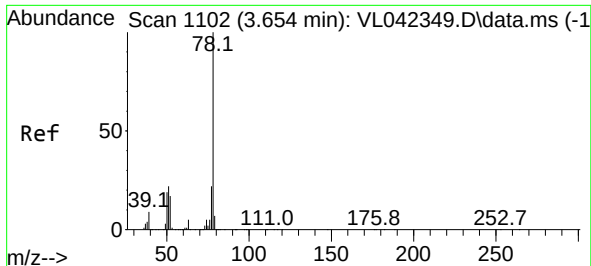
Tgt Ion:114 Resp: 272592
 Ion Ratio Lower Upper
 114 100
 63 27.3 21.8 32.6
 88 18.8 15.5 23.3



#34
 2-Butanone
 Concen: 0.120 ppbv
 RT: 2.560 min Scan# 764
 Delta R.T. 0.003 min
 Lab File: VL042377.D
 Acq: 18 Apr 2025 02:01

Tgt Ion: 43 Resp: 2582
 Ion Ratio Lower Upper
 43 100
 72 17.0 18.2 27.2#





#36

Benzene

Concen: 0.084 ppbv

RT: 3.651 min Scan# 1101

Delta R.T. -0.003 min

Lab File: VL042377.D

Acq: 18 Apr 2025 02:01

Instrument :

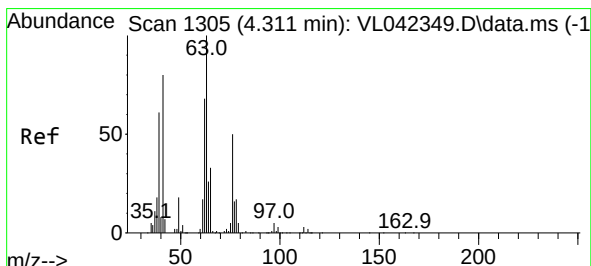
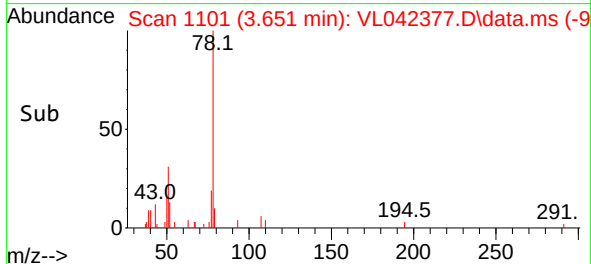
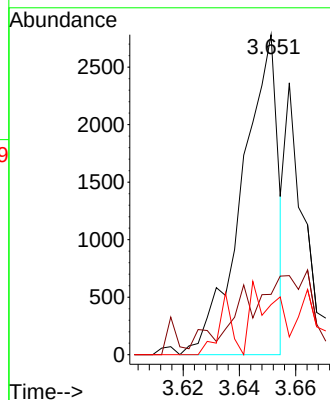
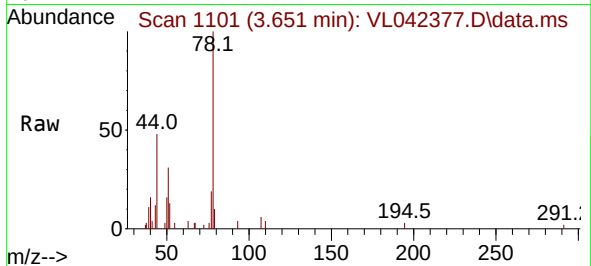
MSVOA_L

ClientSampleId :

IA-B2-6-03312025DL

Tgt Ion: 78 Resp: 2479

Ion	Ratio	Lower	Upper
78	100		
77	16.4	17.4	26.0#
50	15.7	15.5	23.3



#39

1,2-Dichloropropane

Concen: 6.771 ppbv

RT: 3.952 min Scan# 1194

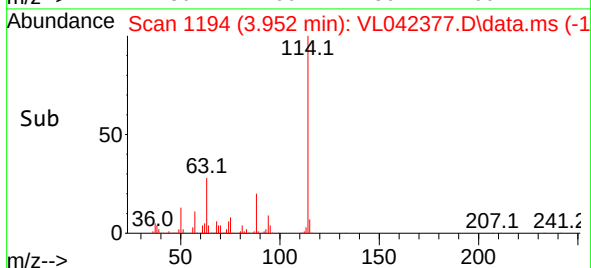
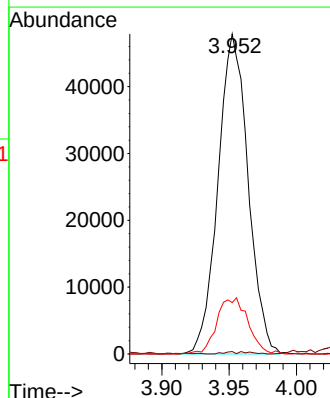
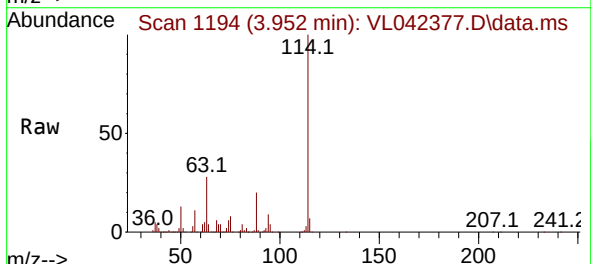
Delta R.T. -0.359 min

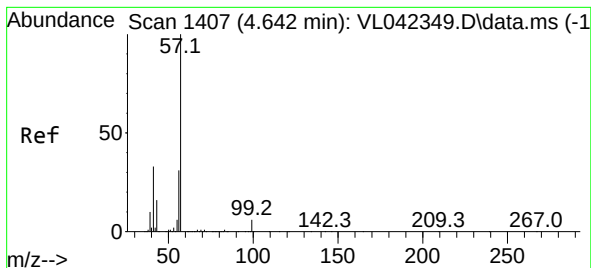
Lab File: VL042377.D

Acq: 18 Apr 2025 02:01

Tgt Ion: 63 Resp: 74190

Ion	Ratio	Lower	Upper
63	100		
41	0.6	64.2	96.2#
62	16.0	54.3	81.5#





#44

2,2,4-Trimethylpentane

Concen: 0.782 ppbv

RT: 4.635 min Scan# 1405

Delta R.T. -0.006 min

Lab File: VL042377.D

Acq: 18 Apr 2025 02:01

Instrument :

MSVOA_L

ClientSampleId :

IA-B2-6-03312025DL

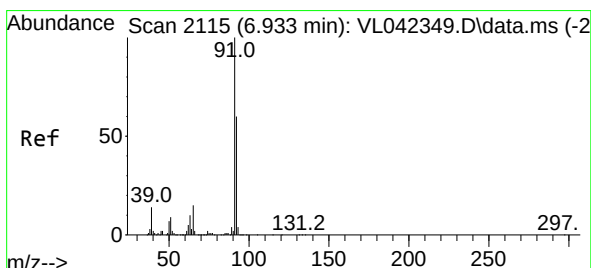
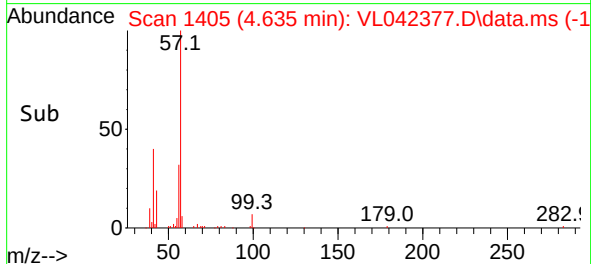
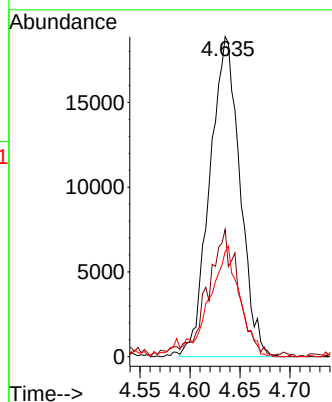
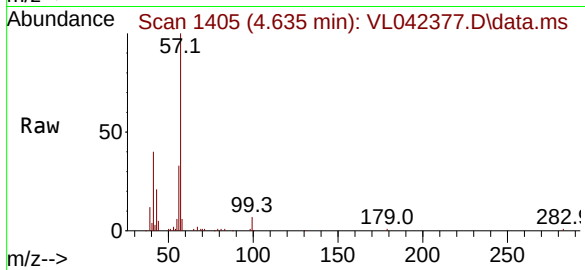
Tgt Ion: 57 Resp: 39733

Ion Ratio Lower Upper

57 100

41 41.9 27.2 40.8#

56 36.0 25.7 38.5



#53

Toluene

Concen: 2.264 ppbv

RT: 6.927 min Scan# 2113

Delta R.T. -0.006 min

Lab File: VL042377.D

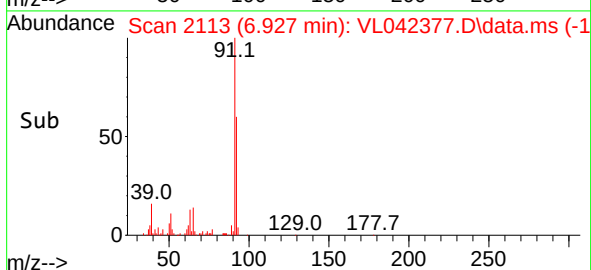
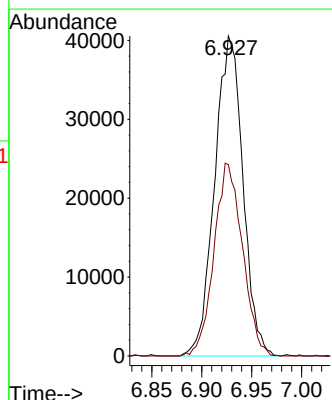
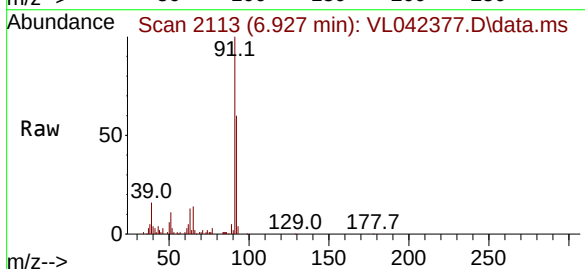
Acq: 18 Apr 2025 02:01

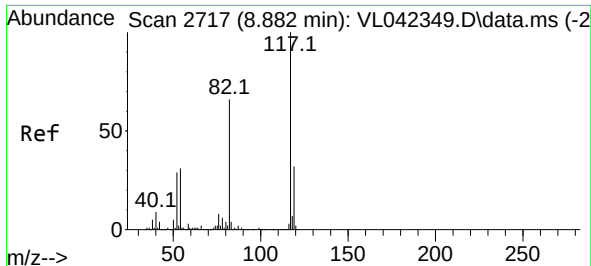
Tgt Ion: 91 Resp: 79886

Ion Ratio Lower Upper

91 100

92 60.5 48.2 72.4

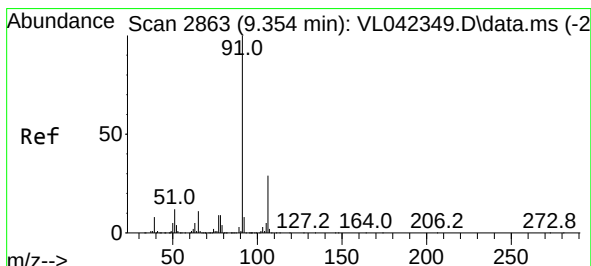
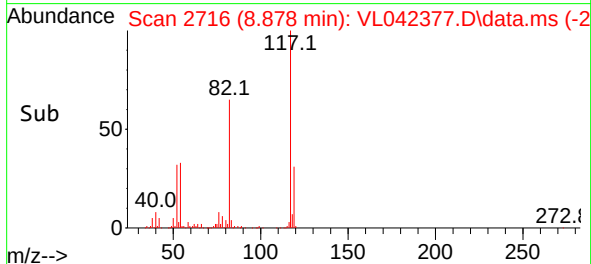
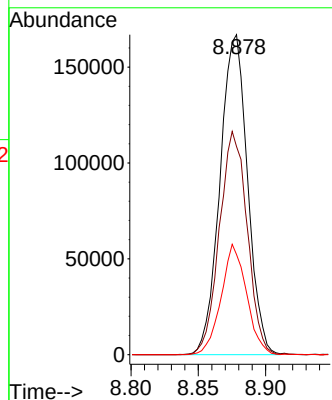
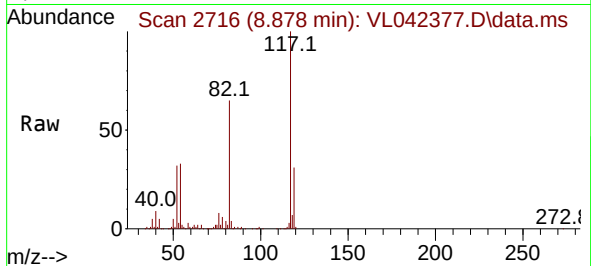




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

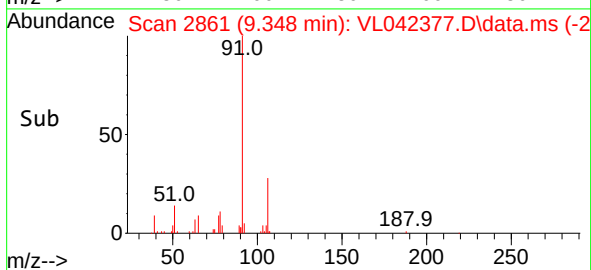
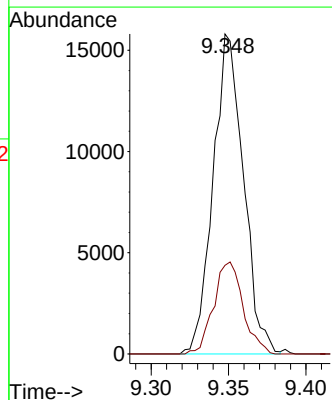
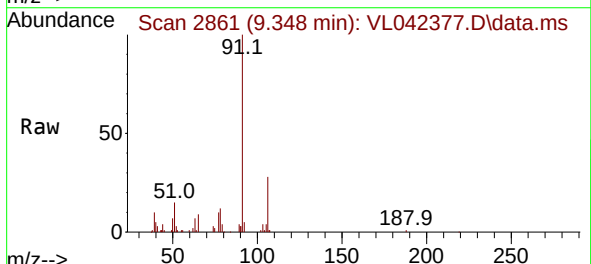
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL

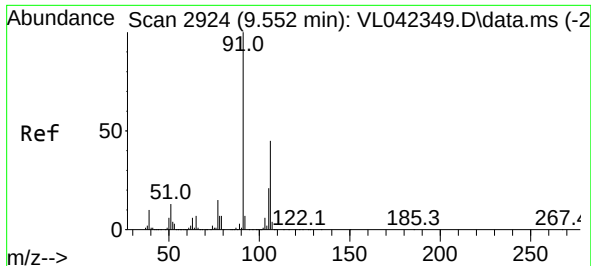
Tgt Ion:117 Resp: 237645
Ion Ratio Lower Upper
117 100
82 70.3 57.8 86.6
119 31.9 25.2 37.8



#58
Ethyl Benzene
Concen: 0.457 ppbv
RT: 9.348 min Scan# 2861
Delta R.T. -0.006 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

Tgt Ion: 91 Resp: 21503
Ion Ratio Lower Upper
91 100
106 27.7 23.0 34.4





#59

m/p-Xylene

Concen: 0.349 ppbv

RT: 9.545 min Scan# 29

Delta R.T. -0.006 min

Lab File: VL042377.D

Acq: 18 Apr 2025 02:01

Instrument :

MSVOA_L

ClientSampleId :

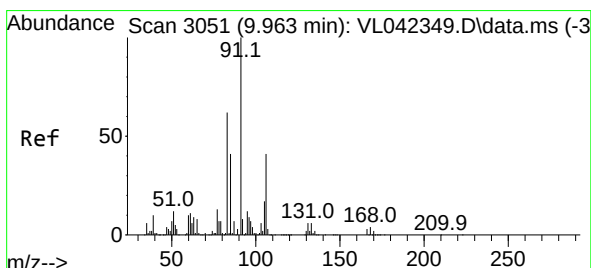
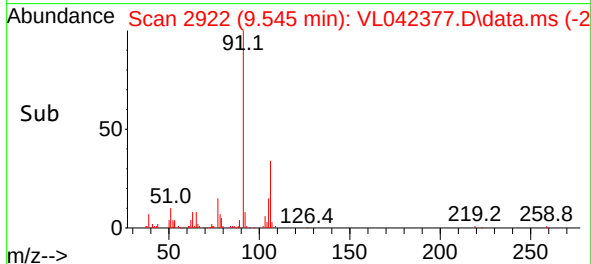
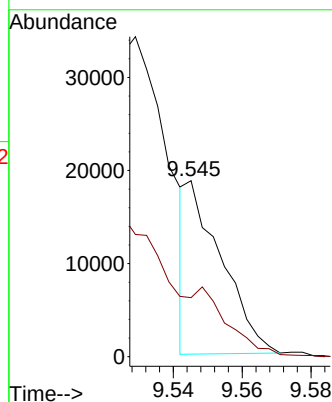
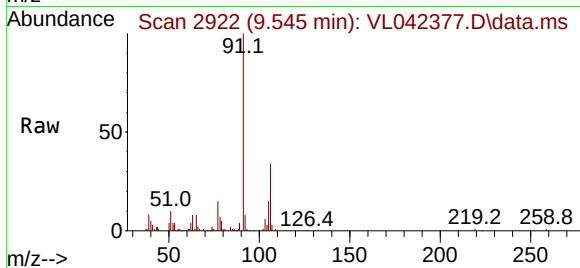
IA-B2-6-03312025DL

Tgt Ion: 91 Resp: 13227

Ion Ratio Lower Upper

91 100

106 0.0 35.4 53.2#



#60

o-Xylene

Concen: 0.668 ppbv

RT: 9.959 min Scan# 3050

Delta R.T. -0.003 min

Lab File: VL042377.D

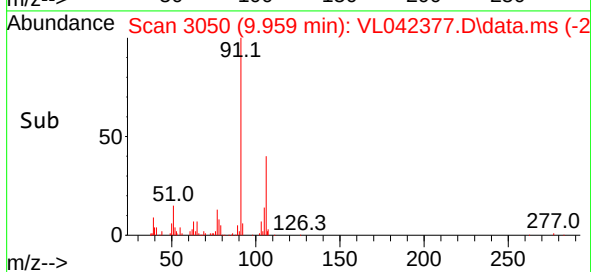
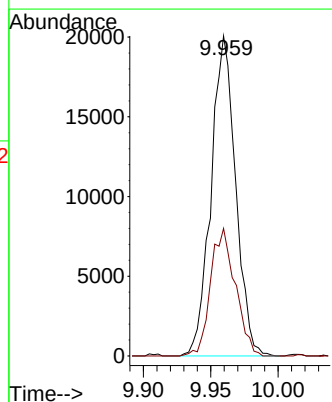
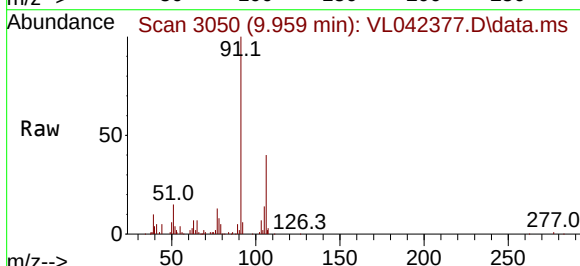
Acq: 18 Apr 2025 02:01

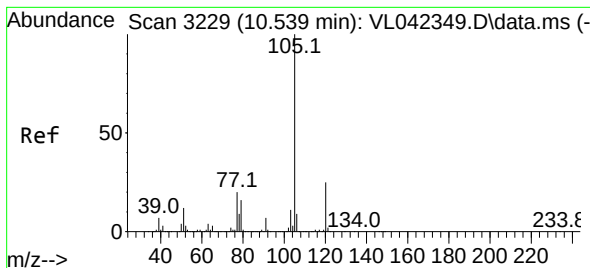
Tgt Ion: 91 Resp: 25512

Ion Ratio Lower Upper

91 100

106 40.1 21.1 63.4





#62

Isopropylbenzene

Concen: 0.045 ppbv

RT: 10.539 min Scan# 31

Delta R.T. 0.000 min

Lab File: VL042377.D

Acq: 18 Apr 2025 02:01

Instrument :

MSVOA_L

ClientSampleId :

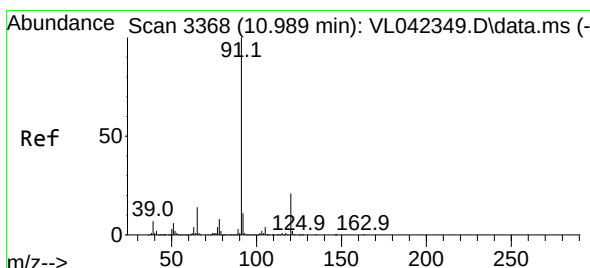
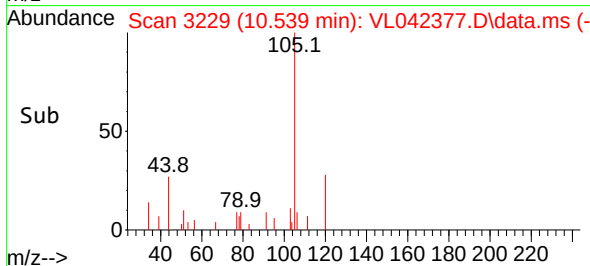
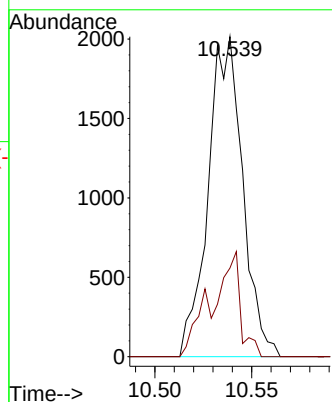
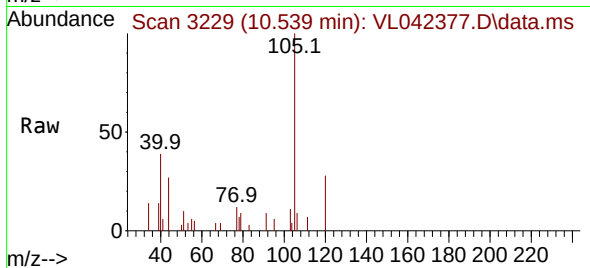
IA-B2-6-03312025DL

Tgt Ion:105 Resp: 2498

Ion Ratio Lower Upper

105 100

120 27.5 19.8 29.8



#64

n-propylbenzene

Concen: 0.118 ppbv

RT: 10.982 min Scan# 3366

Delta R.T. -0.006 min

Lab File: VL042377.D

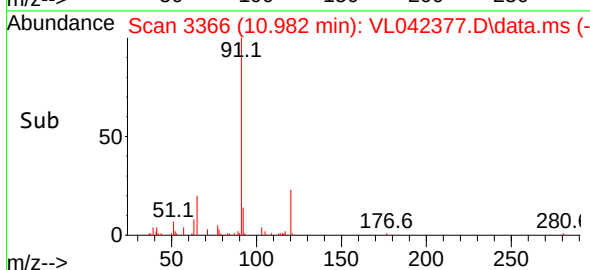
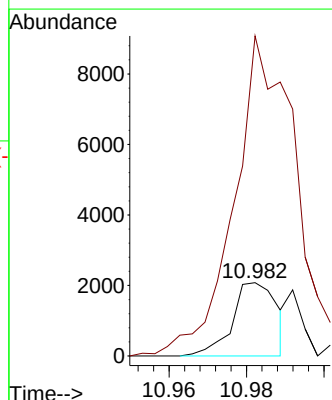
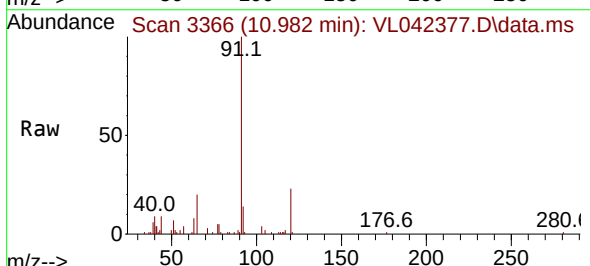
Acq: 18 Apr 2025 02:01

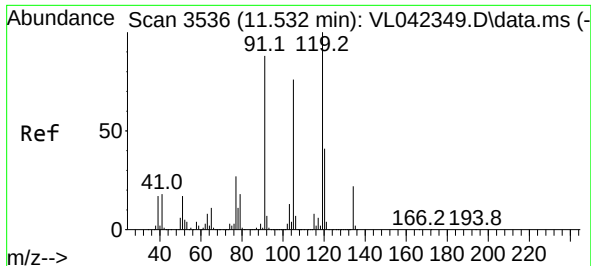
Tgt Ion:120 Resp: 1664

Ion Ratio Lower Upper

120 100

91 607.5 392.4 588.6#

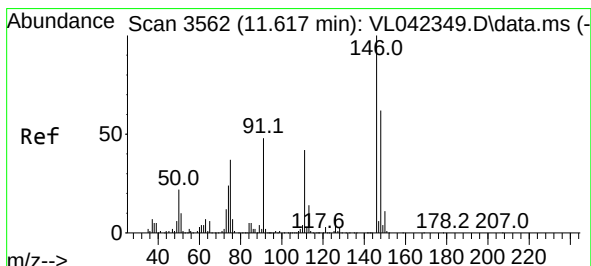
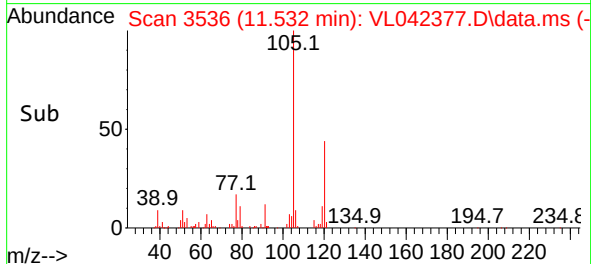
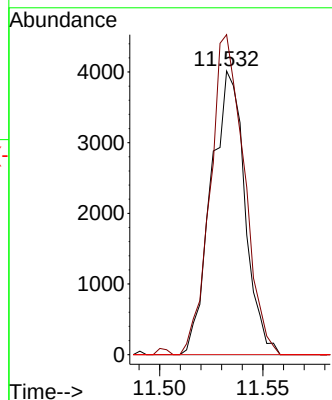
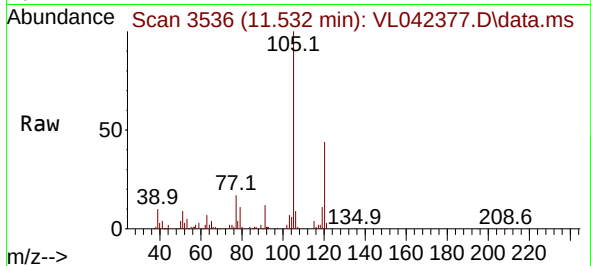




#65
tert-Butylbenzene
Concen: 0.089 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. 0.000 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

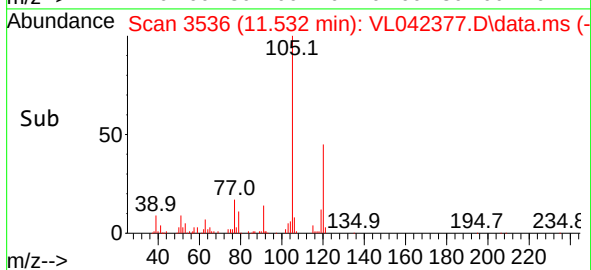
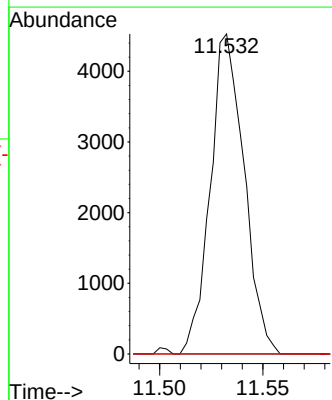
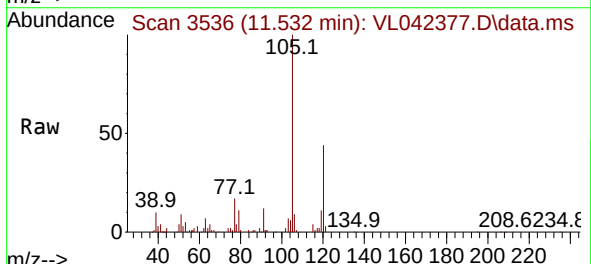
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL

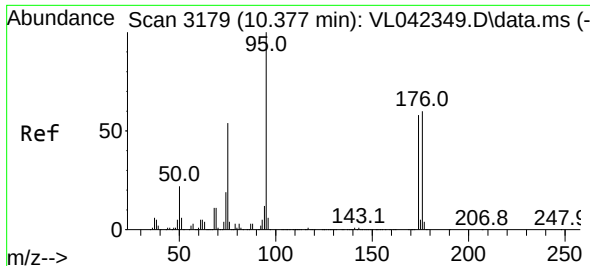
Tgt Ion:119 Resp: 4564
Ion Ratio Lower Upper
119 100
91 113.5 74.6 111.8#
134 0.0 18.8 28.2#



#66
Benzyl Chloride
Concen: 0.909 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. -0.084 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

Tgt Ion: 91 Resp: 5150
Ion Ratio Lower Upper
91 100
126 0.0 11.8 17.6#
128 0.0 4.5 6.7#

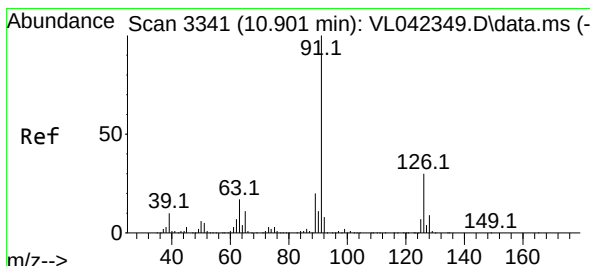
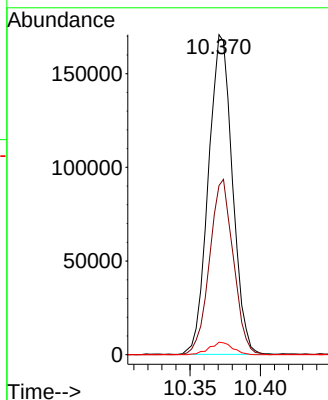
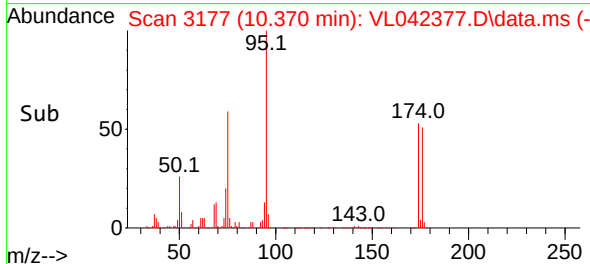
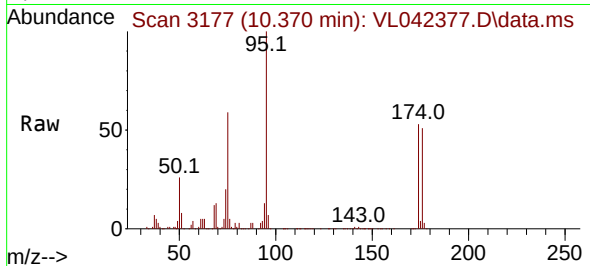




#68
1-Bromo-4-Fluorobenzene
Concen: 10.393 ppbv
RT: 10.370 min Scan# 3179
Delta R.T. -0.006 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

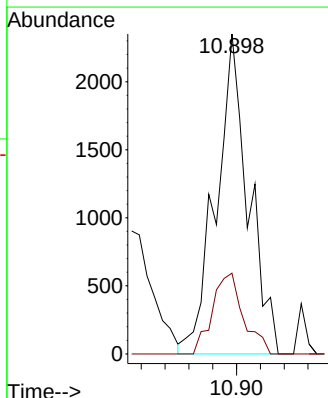
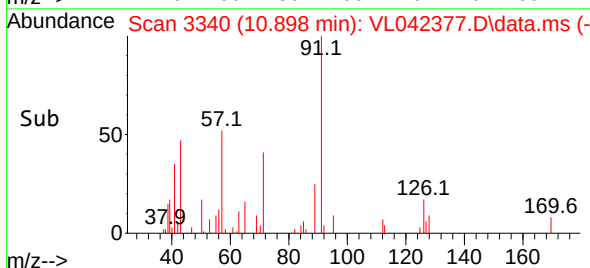
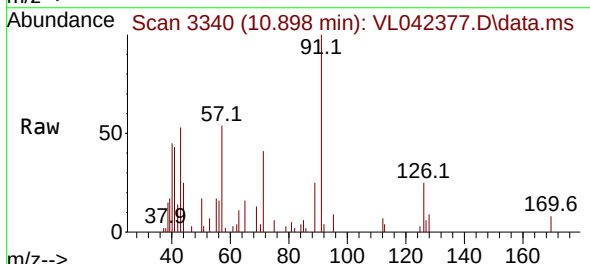
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL

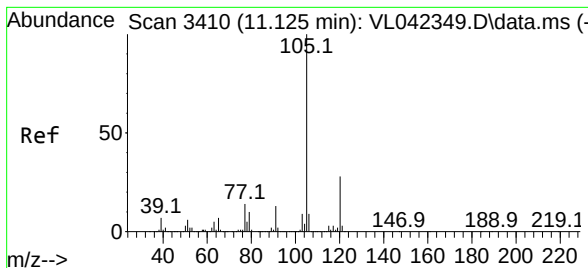
Tgt Ion: 95 Resp: 202954
Ion Ratio Lower Upper
95 100
174 54.2 48.5 72.7
175 3.8 3.7 5.5



#71
2-Chlorotoluene
Concen: 0.050 ppbv
RT: 10.898 min Scan# 3340
Delta R.T. -0.003 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

Tgt Ion: 91 Resp: 2213
Ion Ratio Lower Upper
91 100
126 24.1 11.4 45.4

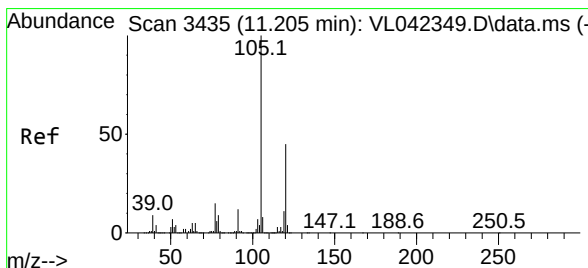
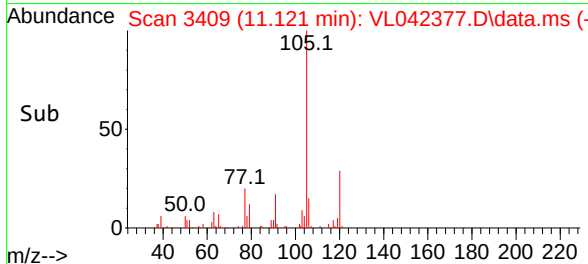
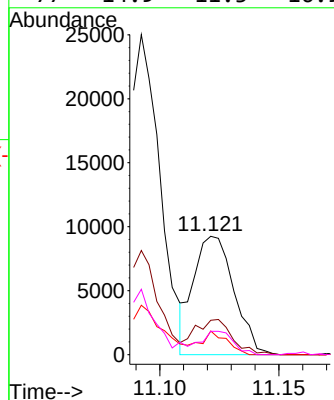
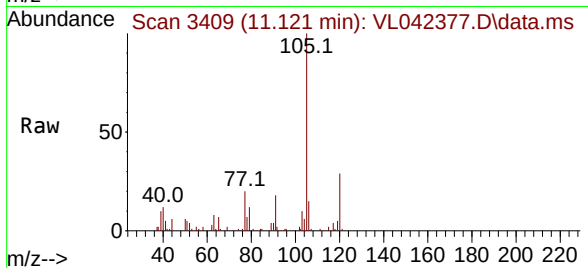




#72
4-Ethyltoluene
Concen: 0.234 ppbv
RT: 11.121 min Scan# 3410
Delta R.T. -0.003 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

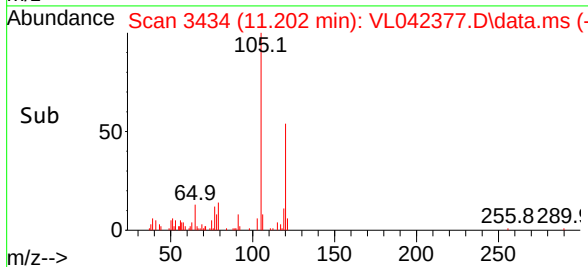
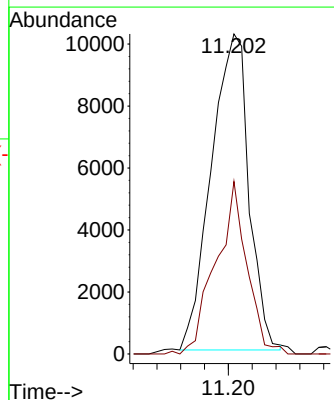
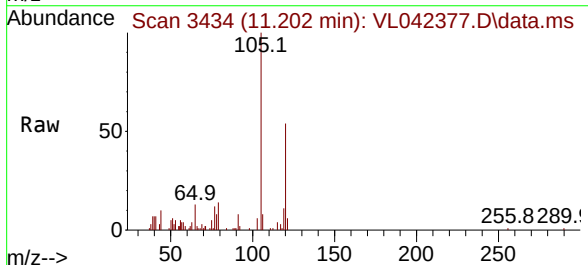
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL

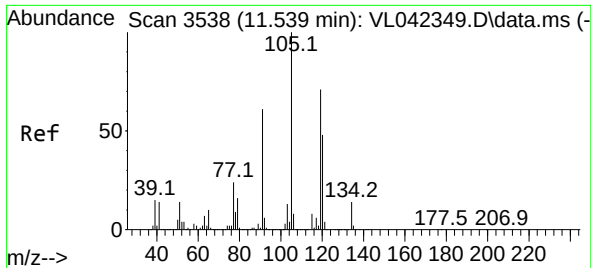
Tgt Ion:105 Resp: 10921
Ion Ratio Lower Upper
105 100
120 0.0 23.2 34.8#
91 0.0 10.4 15.6#
77 14.9 11.3 16.9



#73
1,3,5-Trimethylbenzene
Concen: 0.272 ppbv
RT: 11.202 min Scan# 3434
Delta R.T. -0.003 min
Lab File: VL042377.D
Acq: 18 Apr 2025 02:01

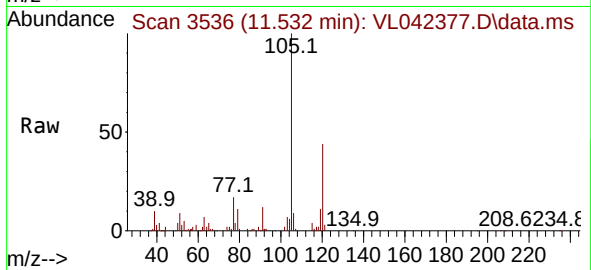
Tgt Ion:105 Resp: 11199
Ion Ratio Lower Upper
105 100
120 54.6 35.6 53.4#



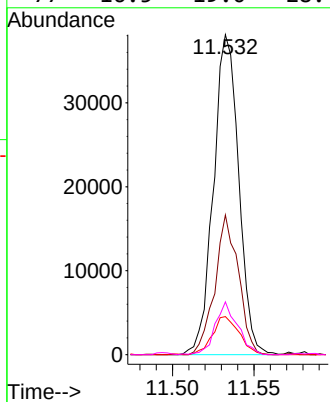
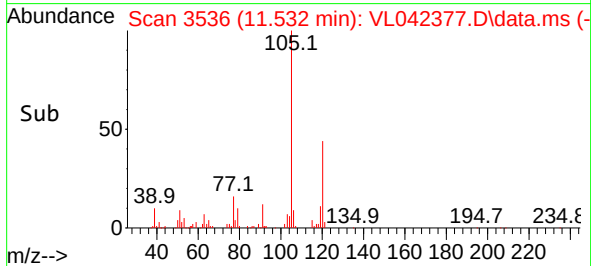


#74
 1,2,4-Trimethylbenzene
 Concen: 0.853 ppbv
 RT: 11.532 min Scan# 3536
 Delta R.T. -0.006 min
 Lab File: VL042377.D
 Acq: 18 Apr 2025 02:01

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-6-03312025DL



Tgt Ion:	105	Resp:	41057
Ion	Ratio	Lower	Upper
105	100		
120	43.6	38.1	57.1
91	11.9	48.8	73.2#
77	16.5	19.0	28.4#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042378.D
 Acq On : 18 Apr 2025 02:32
 Operator : SY/MD
 Sample : Q1726-03DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-2-03312025DL

Quant Time: Apr 18 04:40:41 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	92120	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	265690	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	228865	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	194344	10.334	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.300%

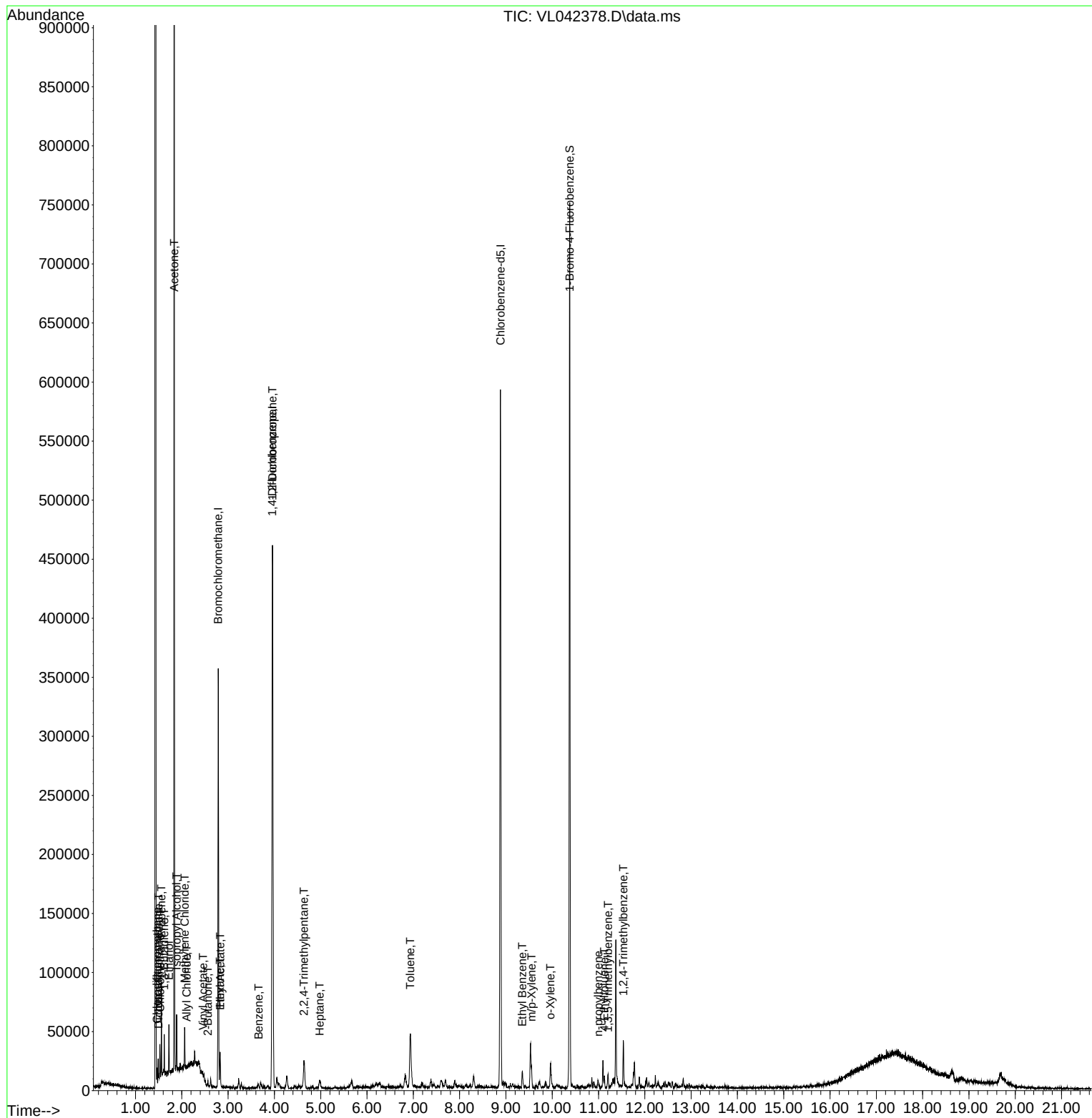
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.499	85	1037	0.064	ppbv #	72
3) Chlorodifluoromethane	1.466	51	3381	0.218	ppbv #	70
4) Chloromethane	1.531	50	967	0.150	ppbv #	76
9) Propene	1.560	41	6477	0.918	ppbv	88
10) Heptane	4.978	43	1262	0.064	ppbv #	1
13) Ethanol	1.722	45	14985	13.357	ppbv	75
15) Acetone	1.835	43	643033	42.641	ppbv	99
16) 1,3-Butadiene	1.622	39	1836	0.255	ppbv #	46
19) Isopropyl Alcohol	1.887	45	20625	2.462	ppbv #	1
20) Methylene Chloride	2.062	84	5194	0.879	ppbv #	76
21) Allyl Chloride	2.107	41	493	0.047	ppbv #	33
23) Vinyl Acetate	2.457	43	1310	0.215	ppbv #	42
25) Ethyl Acetate	2.829	43	5491	0.148	ppbv #	83
26) Hexane	2.826	57	7525	0.500	ppbv #	41
34) 2-Butanone	2.564	43	2187	0.104	ppbv	92
36) Benzene	3.658	78	1088	0.038	ppbv #	86
39) 1,2-Dichloropropane	3.959	63	72965	6.833	ppbv #	21
44) 2,2,4-Trimethylpentane	4.638	57	10536	0.213	ppbv #	39
53) Toluene	6.936	91	30658	0.891	ppbv	99
58) Ethyl Benzene	9.354	91	7859	0.173	ppbv	94
59) m/p-Xylene	9.552	91	4044	0.111	ppbv #	32
60) o-Xylene	9.963	91	8584	0.233	ppbv	97
64) n-propylbenzene	10.992	120	615	0.045	ppbv	72
72) 4-Ethyltoluene	11.125	105	4027	0.090	ppbv #	56
73) 1,3,5-Trimethylbenzene	11.209	105	2222	0.056	ppbv #	79
74) 1,2,4-Trimethylbenzene	11.536	105	13380	0.289	ppbv #	60

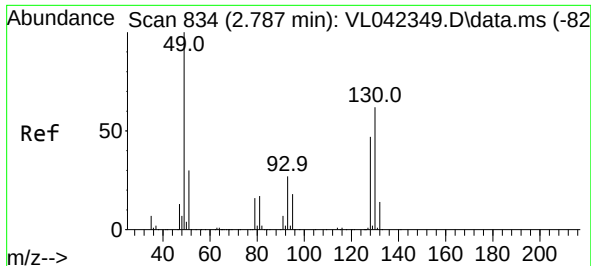
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042378.D
Acq On : 18 Apr 2025 02:32
Operator : SY/MD
Sample : Q1726-03DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025DL

Quant Time: Apr 18 04:40:41 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

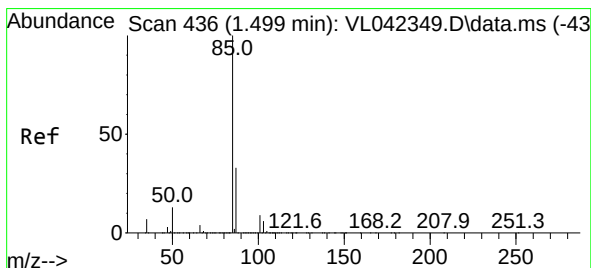
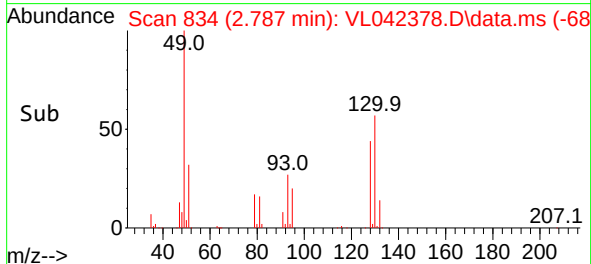
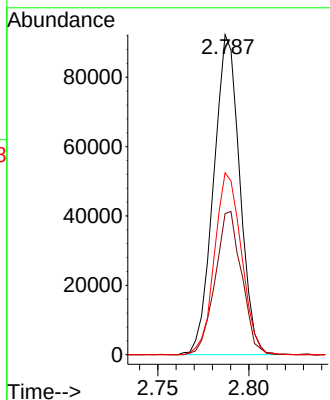
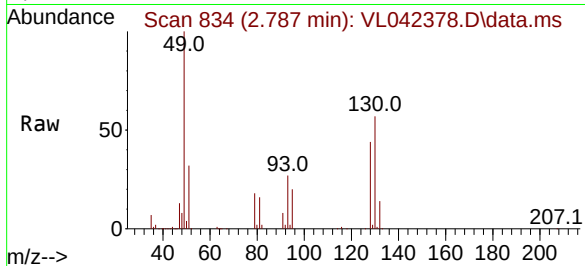




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.787 min Scan# 81
 Delta R.T. -0.000 min
 Lab File: VL042378.D
 Acq: 18 Apr 2025 02:32

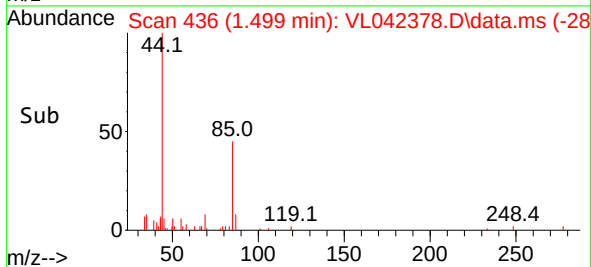
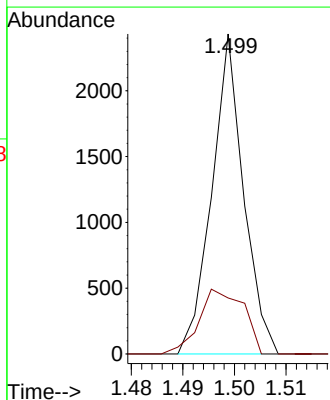
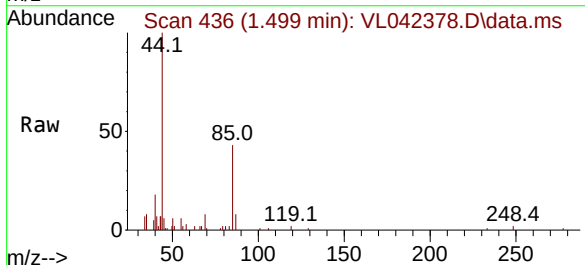
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-2-03312025DL

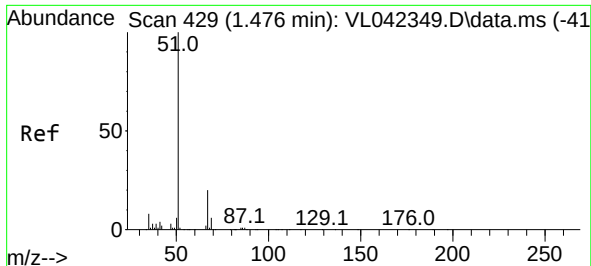
Tgt Ion: 49 Resp: 92120
 Ion Ratio Lower Upper
 49 100
 128 45.5 22.8 68.4
 130 58.7 29.3 88.0



#2
 Dichlorodifluoromethane
 Concen: 0.064 ppbv
 RT: 1.499 min Scan# 436
 Delta R.T. -0.000 min
 Lab File: VL042378.D
 Acq: 18 Apr 2025 02:32

Tgt Ion: 85 Resp: 1037
 Ion Ratio Lower Upper
 85 100
 87 17.5 26.6 39.8#





#3

Chlorodifluoromethane

Concen: 0.218 ppbv

RT: 1.466 min Scan# 41

Delta R.T. -0.010 min

Lab File: VL042378.D

Acq: 18 Apr 2025 02:32

Instrument :

MSVOA_L

ClientSampleId :

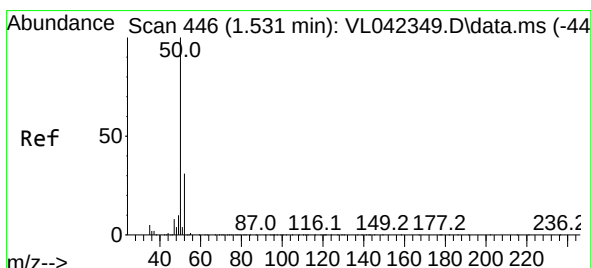
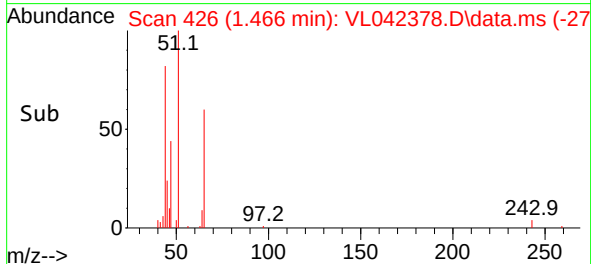
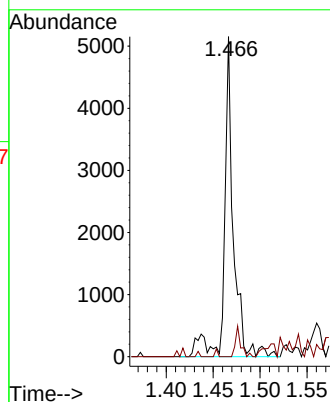
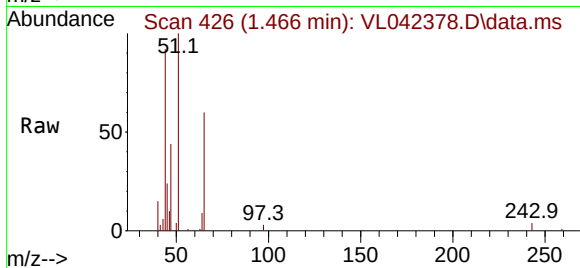
IA-B2-2-03312025DL

Tgt Ion: 51 Resp: 3381

Ion Ratio Lower Upper

51 100

67 6.4 16.2 24.4#



#4

Chloromethane

Concen: 0.150 ppbv

RT: 1.531 min Scan# 446

Delta R.T. -0.000 min

Lab File: VL042378.D

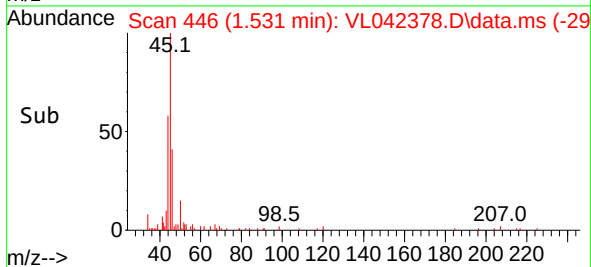
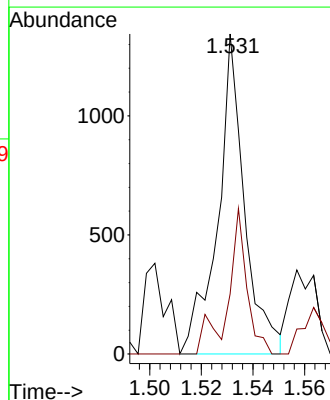
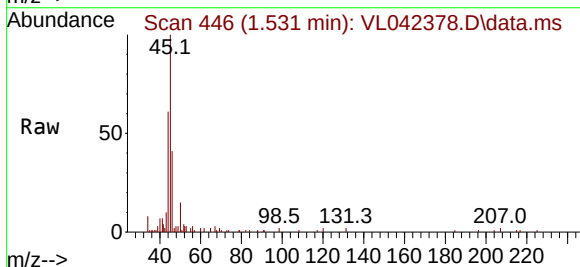
Acq: 18 Apr 2025 02:32

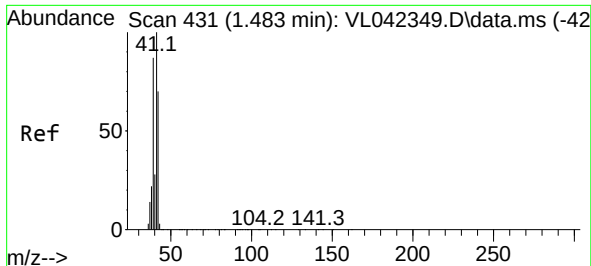
Tgt Ion: 50 Resp: 967

Ion Ratio Lower Upper

50 100

52 17.5 24.7 37.1#





#9

Propene

Concen: 0.918 ppbv

RT: 1.560 min Scan# 41

Delta R.T. 0.078 min

Lab File: VL042378.D

Acq: 18 Apr 2025 02:32

Instrument :

MSVOA_L

ClientSampleId :

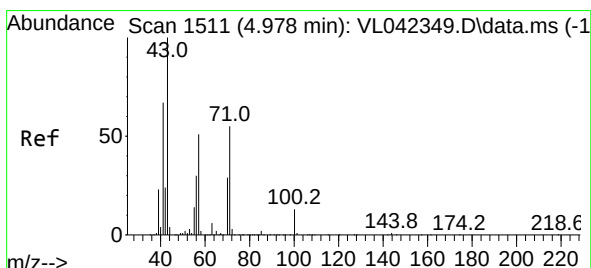
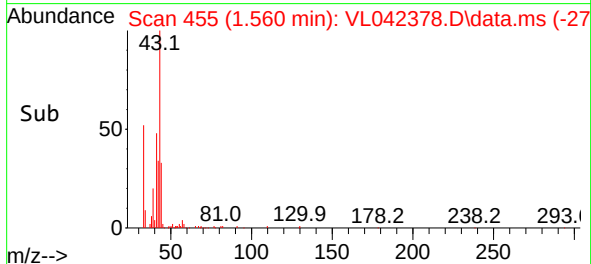
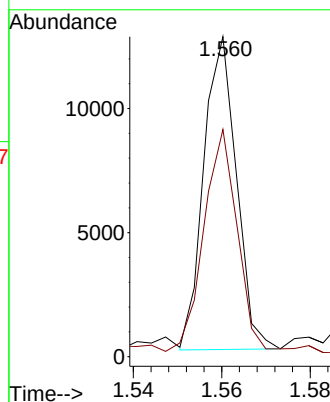
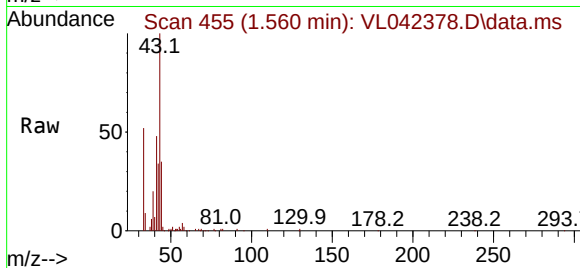
IA-B2-2-03312025DL

Tgt Ion: 41 Resp: 6477

Ion Ratio Lower Upper

41 100

42 79.8 56.2 84.4



#10

Heptane

Concen: 0.064 ppbv

RT: 4.978 min Scan# 1511

Delta R.T. -0.000 min

Lab File: VL042378.D

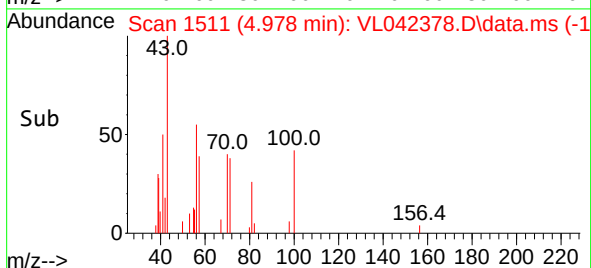
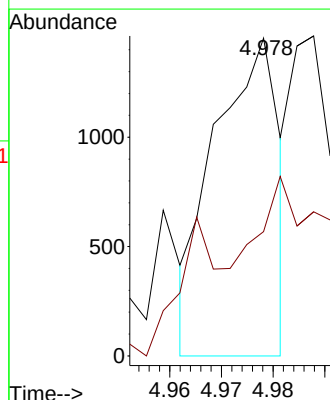
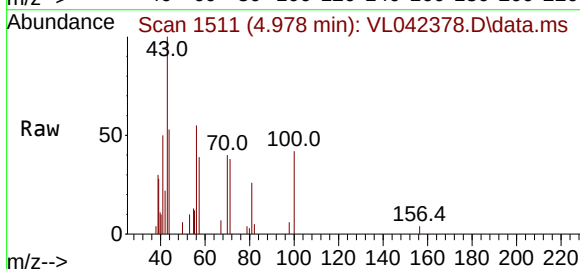
Acq: 18 Apr 2025 02:32

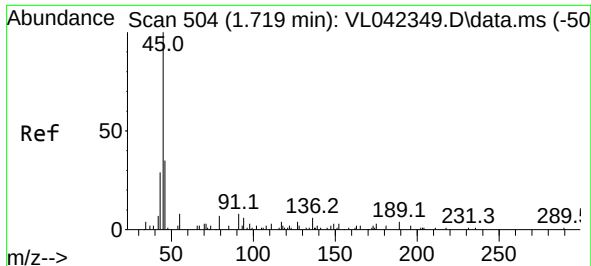
Tgt Ion: 43 Resp: 1262

Ion Ratio Lower Upper

43 100

57 125.8 39.9 59.9#

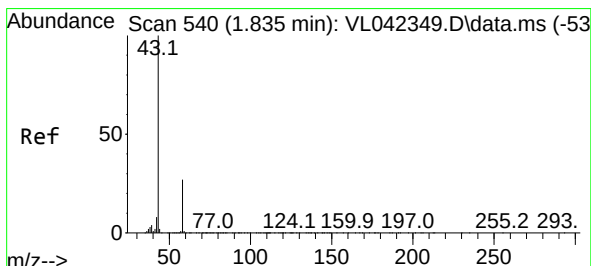
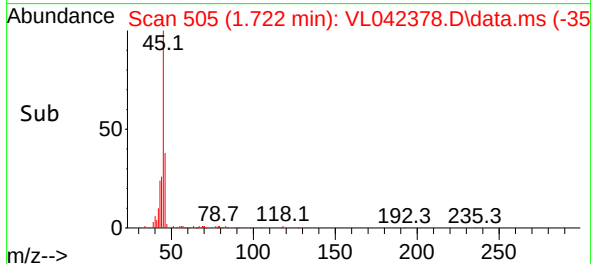
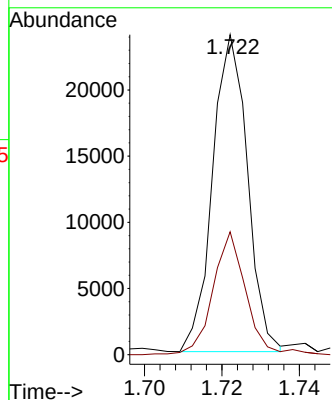
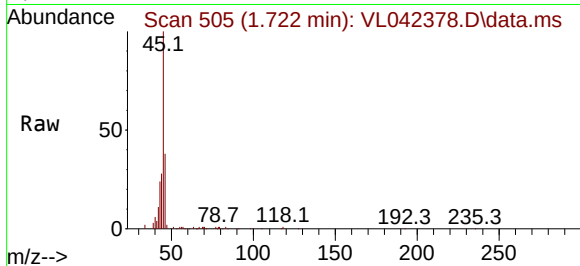




#13
 Ethanol
 Concen: 13.357 ppbv
 RT: 1.722 min Scan# 504
 Delta R.T. 0.003 min
 Lab File: VL042378.D
 Acq: 18 Apr 2025 02:32

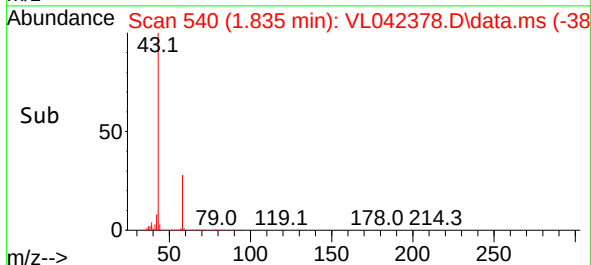
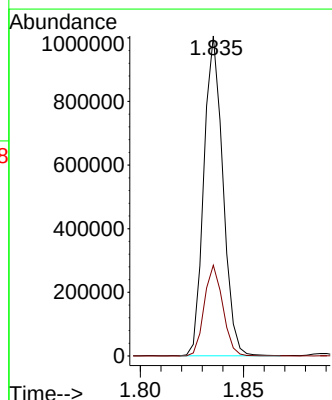
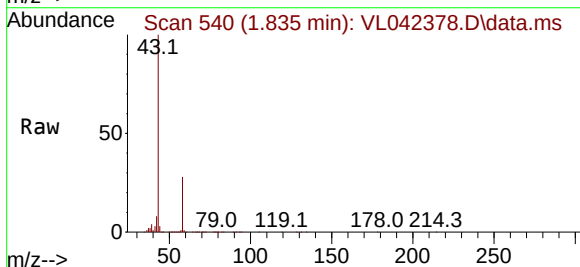
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-2-03312025DL

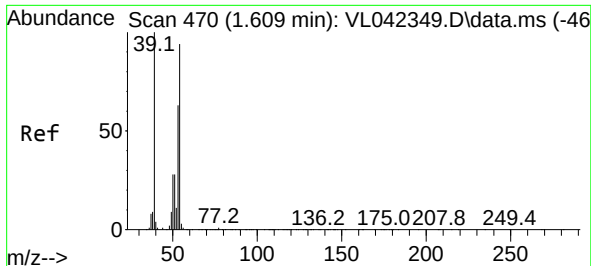
Tgt Ion: 45 Resp: 14985
 Ion Ratio Lower Upper
 45 100
 46 36.7 21.9 87.7



#15
 Acetone
 Concen: 42.641 ppbv
 RT: 1.835 min Scan# 540
 Delta R.T. -0.000 min
 Lab File: VL042378.D
 Acq: 18 Apr 2025 02:32

Tgt Ion: 43 Resp: 643033
 Ion Ratio Lower Upper
 43 100
 58 27.6 22.4 33.6

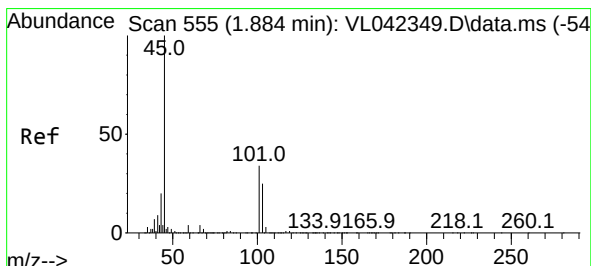
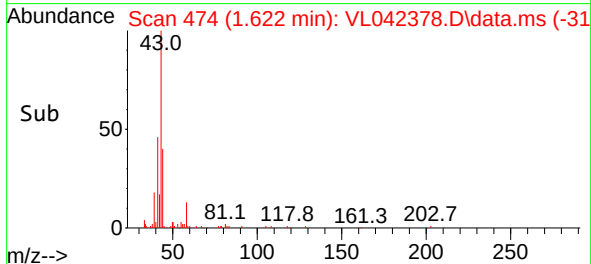
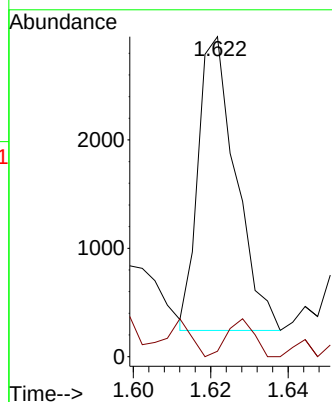
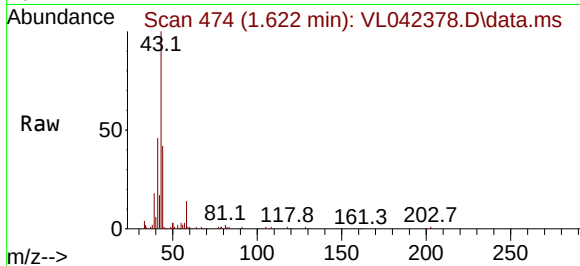




#16
1,3-Butadiene
Concen: 0.255 ppbv
RT: 1.622 min Scan# 41
Delta R.T. 0.013 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32

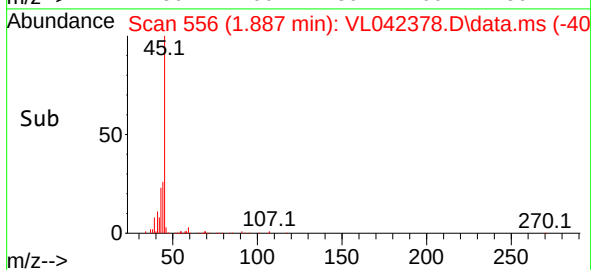
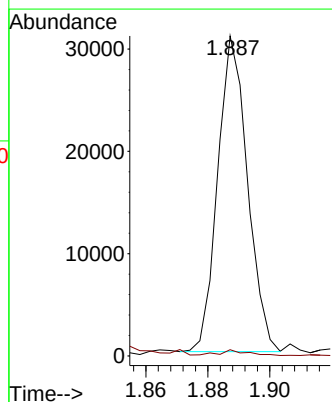
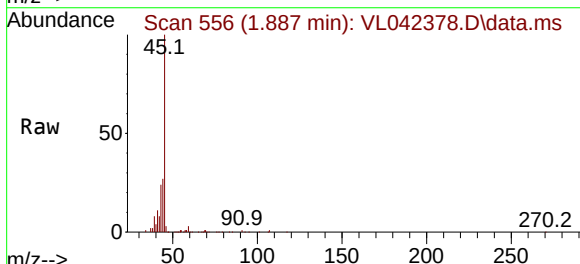
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025DL

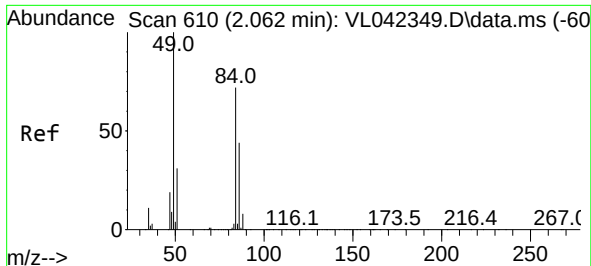
Tgt Ion: 39 Resp: 1836
Ion Ratio Lower Upper
39 100
54 32.7 64.9 97.3#



#19
Isopropyl Alcohol
Concen: 2.462 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32

Tgt Ion: 45 Resp: 20625
Ion Ratio Lower Upper
45 100
58 861.8 34.5 51.7#

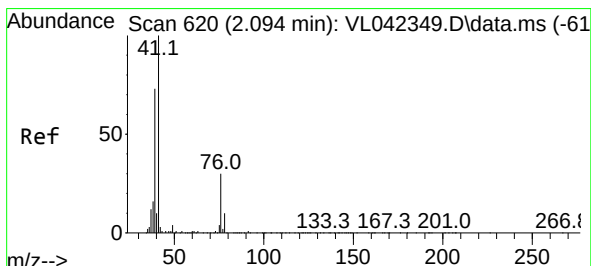
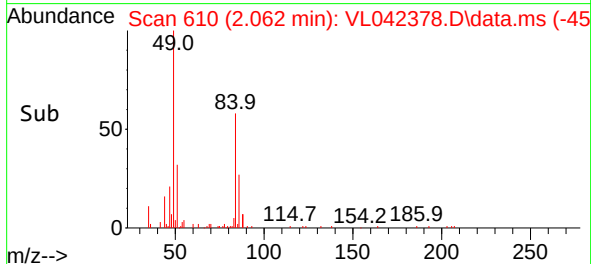
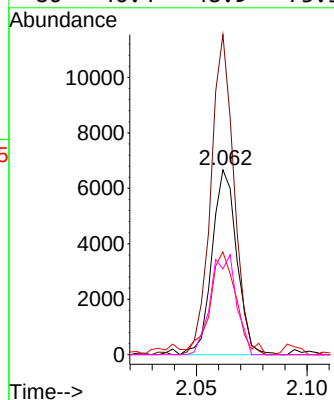
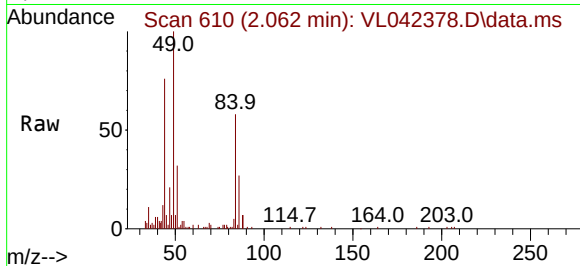




#20
Methylene Chloride
Concen: 0.879 ppbv
RT: 2.062 min Scan# 610
Delta R.T. -0.000 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32

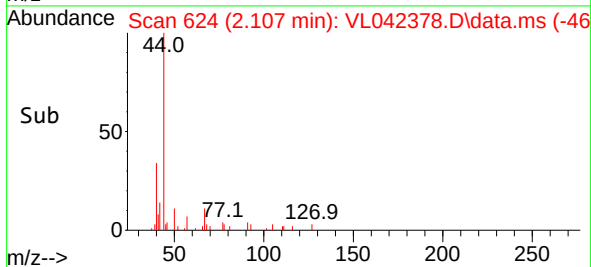
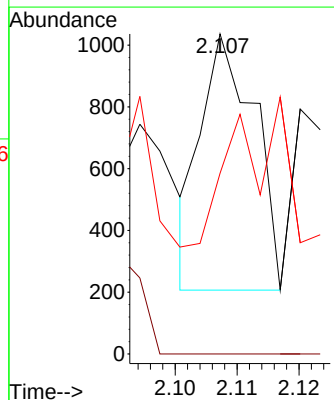
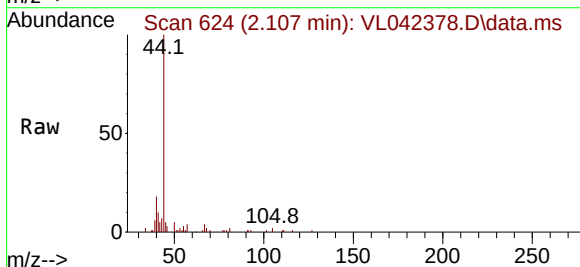
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025DL

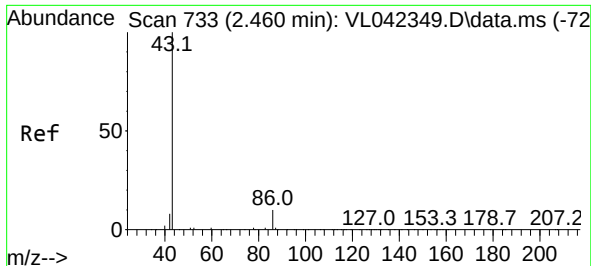
Tgt Ion:	84	Resp:	5194
Ion	Ratio	Lower	Upper
84	100		
49	173.1	111.6	167.4#
51	54.4	35.1	52.7#
86	46.4	48.9	73.3#



#21
Allyl Chloride
Concen: 0.047 ppbv
RT: 2.107 min Scan# 624
Delta R.T. 0.013 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32

Tgt Ion:	41	Resp:	493
Ion	Ratio	Lower	Upper
41	100		
76	22.3	24.8	37.2#
39	0.0	60.6	90.8#



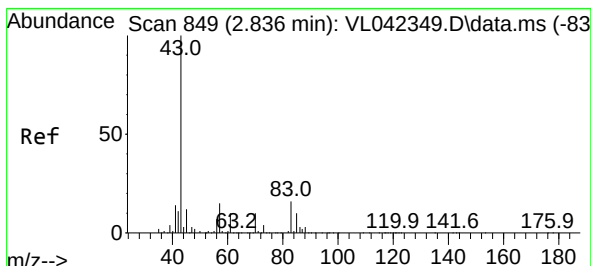
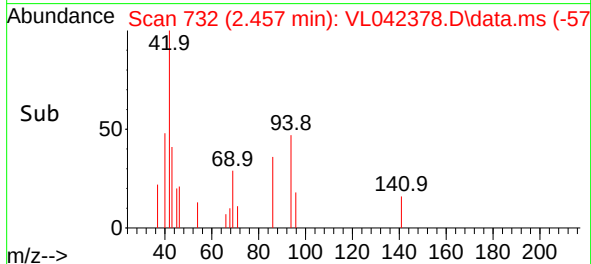
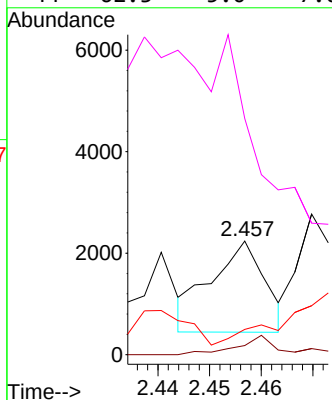
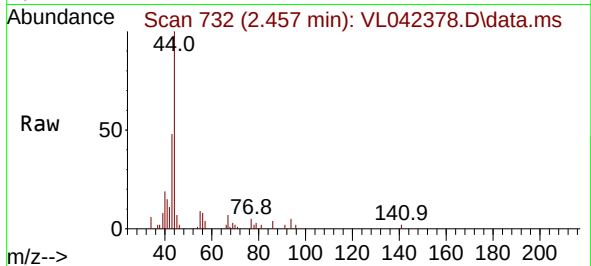


#23
Vinyl Acetate
Concen: 0.215 ppbv
RT: 2.457 min Scan# 71
Delta R.T. -0.003 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025DL

Tgt Ion: 43 Resp: 1310

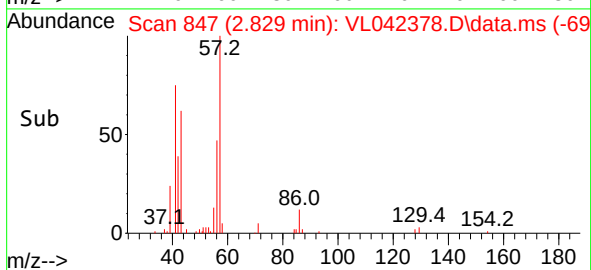
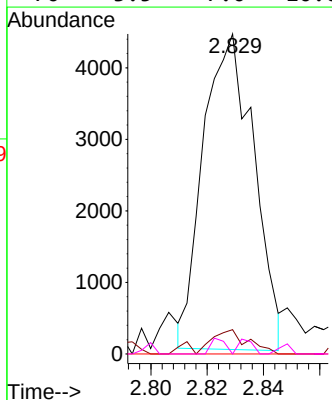
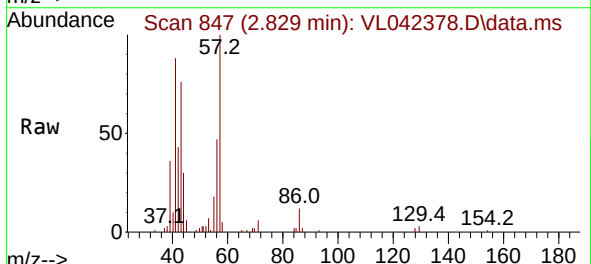
Ion	Ratio	Lower	Upper
43	100		
86	14.9	6.5	9.7#
42	2.0	7.8	11.8#
44	62.3	5.0	7.6#

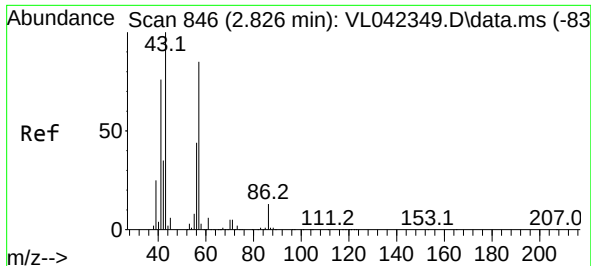


#25
Ethyl Acetate
Concen: 0.148 ppbv
RT: 2.829 min Scan# 847
Delta R.T. -0.006 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32

Tgt Ion: 43 Resp: 5491

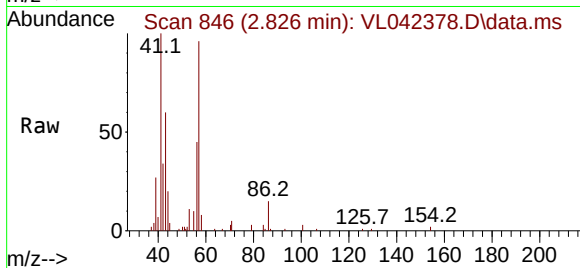
Ion	Ratio	Lower	Upper
43	100		
45	6.4	8.3	12.5#
61	0.0	7.3	10.9#
70	3.5	7.0	10.6#



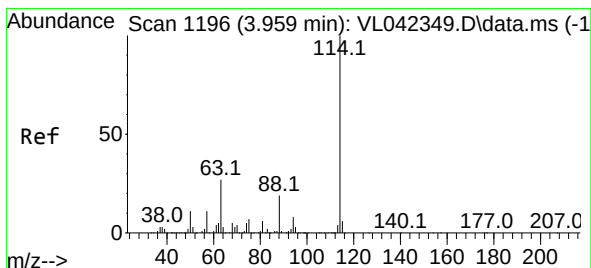
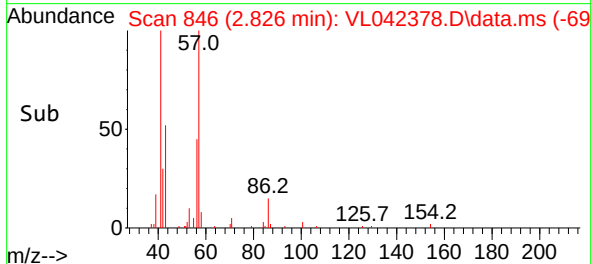
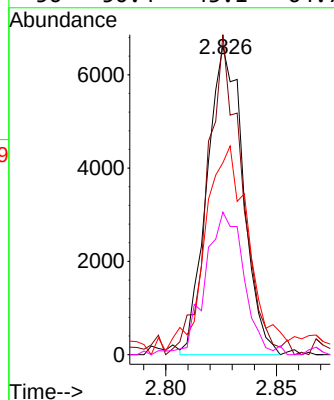


#26
Hexane
Concen: 0.500 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.000 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025DL

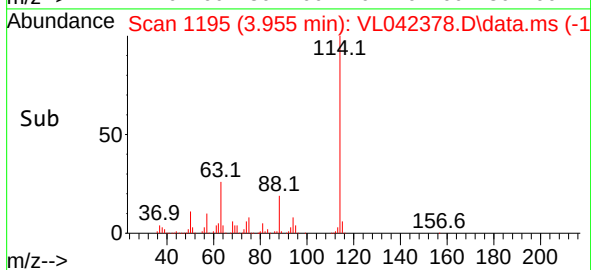
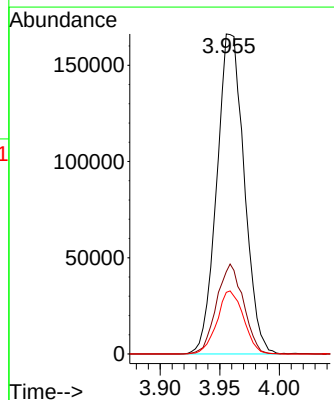
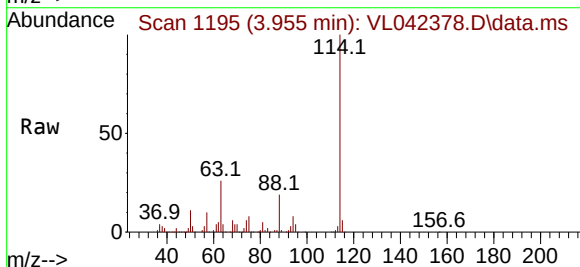


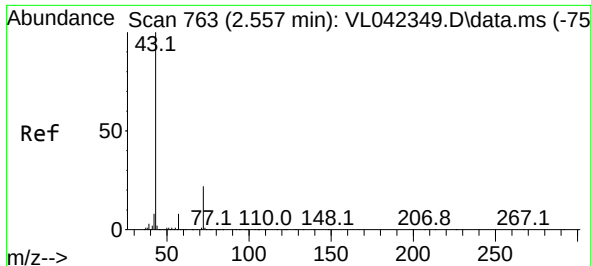
Tgt Ion	57	Resp:	7525
Ion	Ratio	Lower	Upper
57	100		
41	102.4	77.9	116.9
43	97.5	208.4	312.6#
56	50.4	43.1	64.7



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. -0.003 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32

Tgt Ion	114	Resp:	265690
Ion	Ratio	Lower	Upper
114	100		
63	27.5	21.8	32.6
88	19.1	15.5	23.3

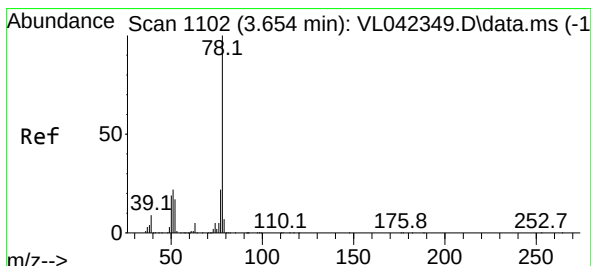
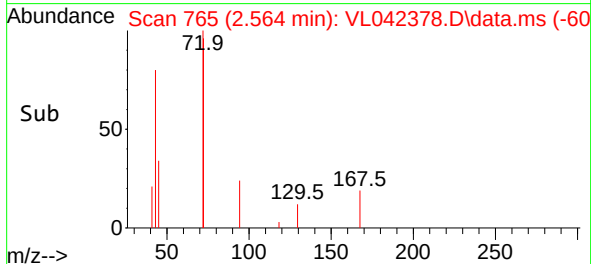
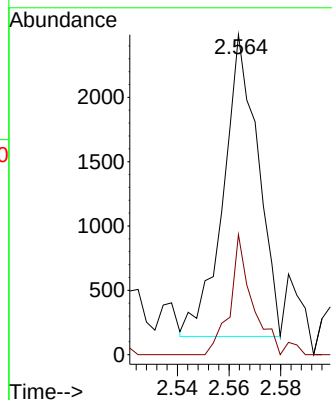
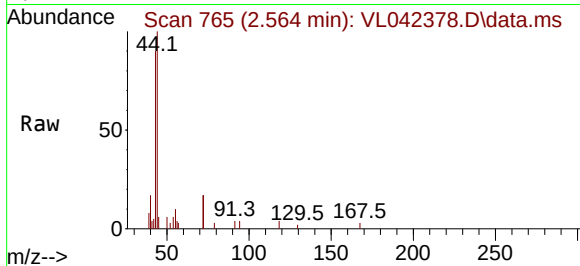




#34
2-Butanone
Concen: 0.104 ppbv
RT: 2.564 min Scan# 71
Delta R.T. 0.006 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32

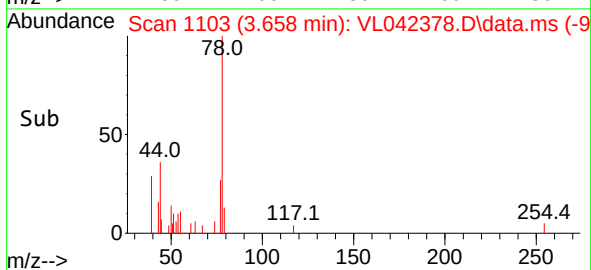
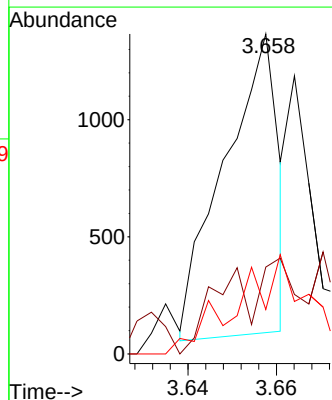
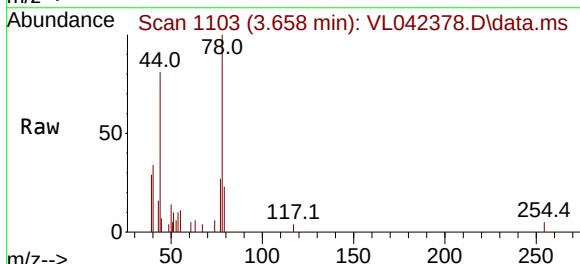
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025DL

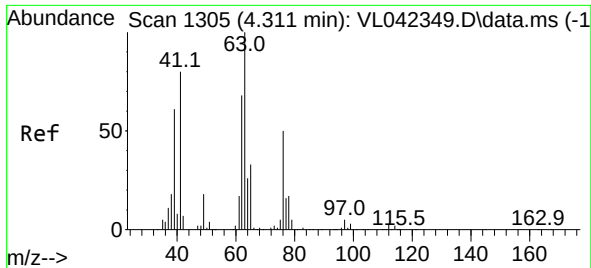
Tgt Ion: 43 Resp: 2187
Ion Ratio Lower Upper
43 100
72 26.7 18.2 27.2



#36
Benzene
Concen: 0.038 ppbv
RT: 3.658 min Scan# 1103
Delta R.T. 0.003 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32

Tgt Ion: 78 Resp: 1088
Ion Ratio Lower Upper
78 100
77 32.1 17.4 26.0#
50 17.2 15.5 23.3





#39

1,2-Dichloropropane

Concen: 6.833 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. -0.353 min

Lab File: VL042378.D

Acq: 18 Apr 2025 02:32

Instrument :

MSVOA_L

ClientSampleId :

IA-B2-2-03312025DL

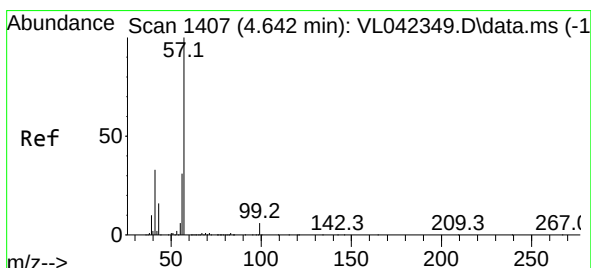
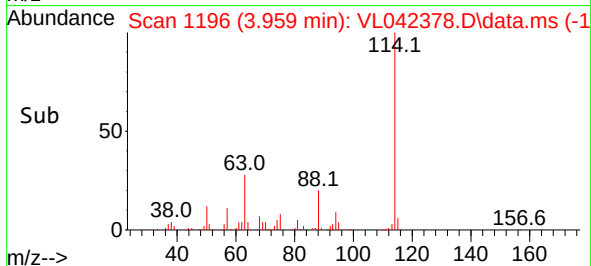
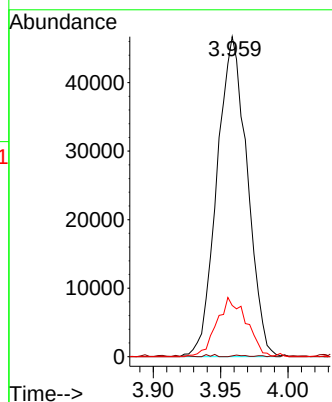
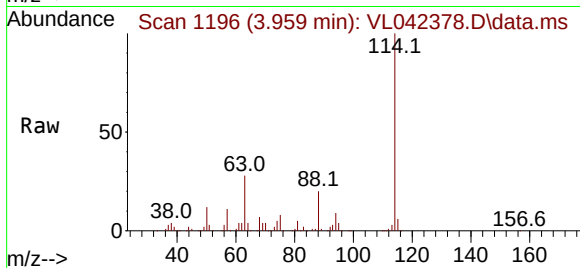
Tgt Ion: 63 Resp: 72965

Ion Ratio Lower Upper

63 100

41 0.1 64.2 96.2#

62 16.0 54.3 81.5#



#44

2,2,4-Trimethylpentane

Concen: 0.213 ppbv

RT: 4.638 min Scan# 1406

Delta R.T. -0.003 min

Lab File: VL042378.D

Acq: 18 Apr 2025 02:32

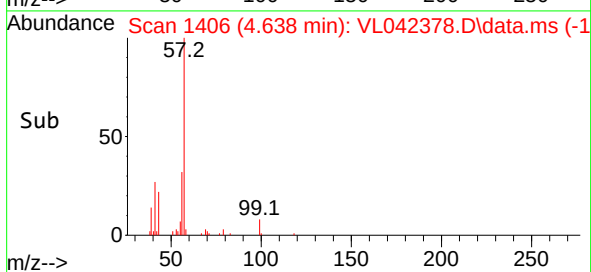
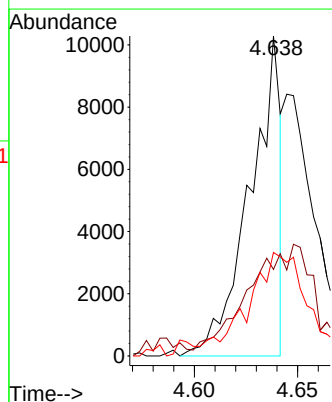
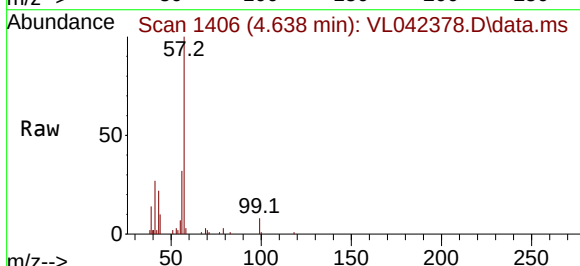
Tgt Ion: 57 Resp: 10536

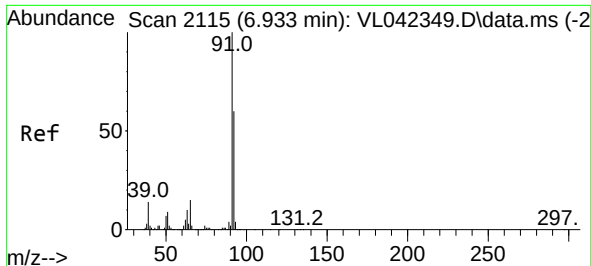
Ion Ratio Lower Upper

57 100

41 0.0 27.2 40.8#

56 67.3 25.7 38.5#

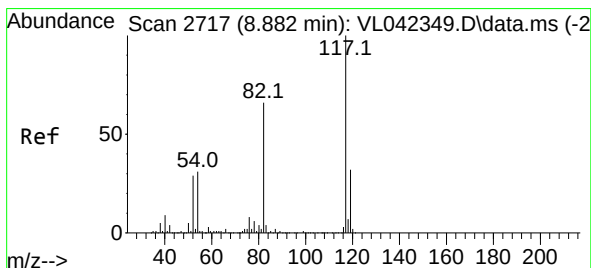
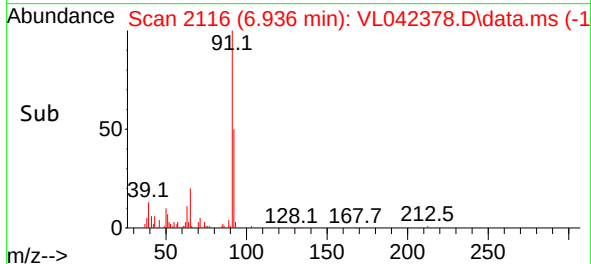
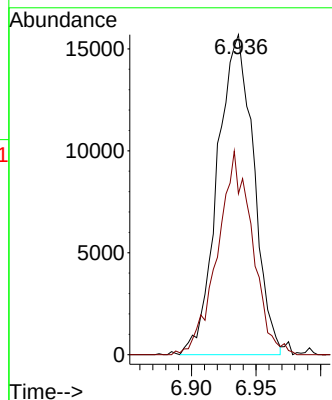
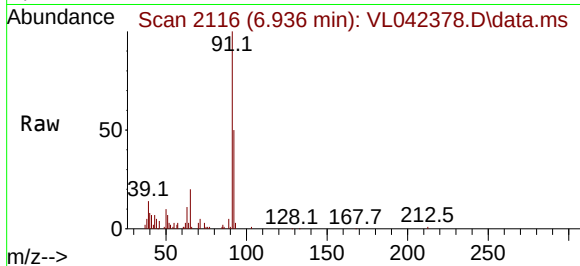




#53
Toluene
Concen: 0.891 ppbv
RT: 6.936 min Scan# 2116
Delta R.T. 0.003 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32

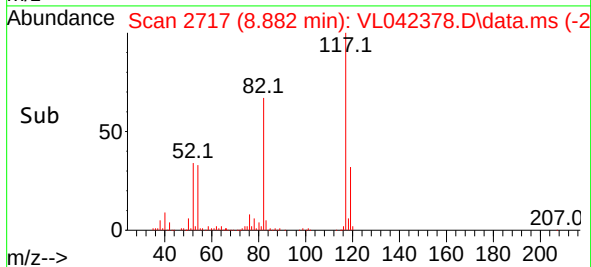
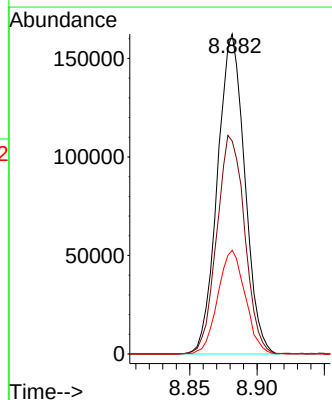
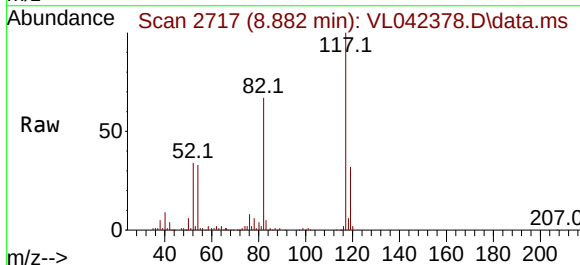
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025DL

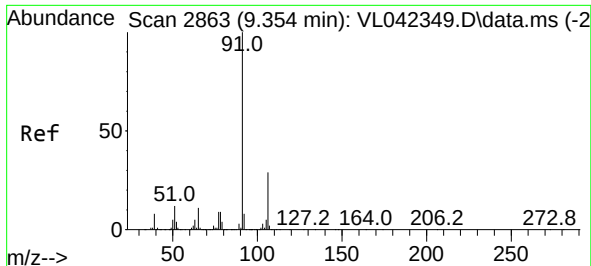
Tgt Ion: 91 Resp: 30658
Ion Ratio Lower Upper
91 100
92 61.1 48.2 72.4



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2717
Delta R.T. -0.000 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32

Tgt Ion: 117 Resp: 228865
Ion Ratio Lower Upper
117 100
82 69.8 57.8 86.6
119 32.7 25.2 37.8

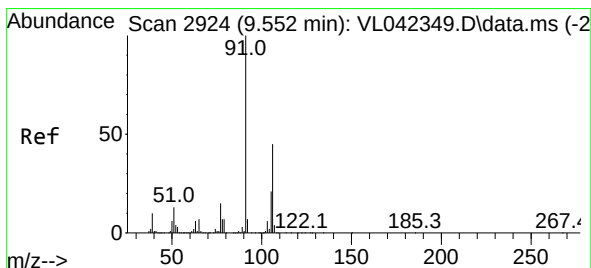
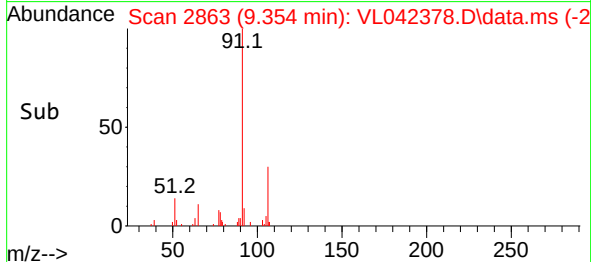
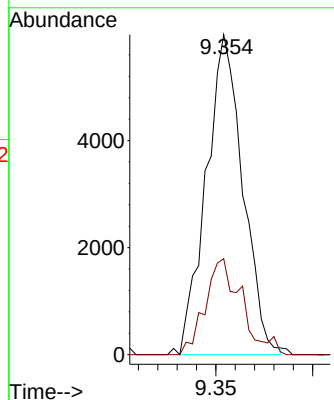
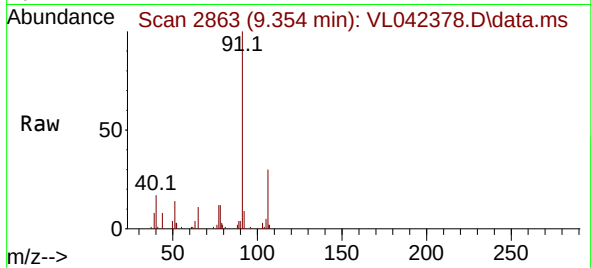




#58
Ethyl Benzene
Concen: 0.173 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. -0.000 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32

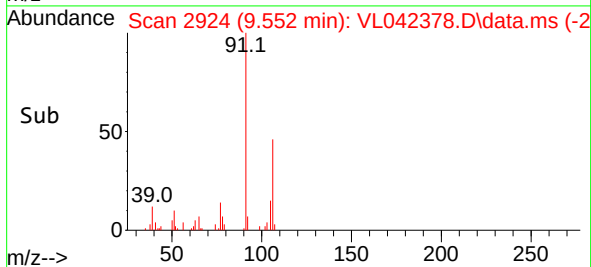
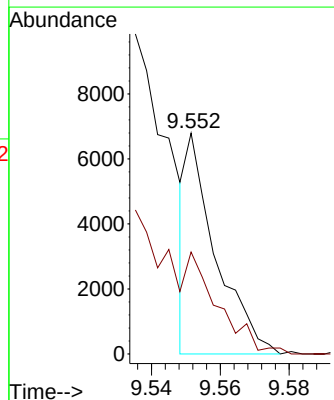
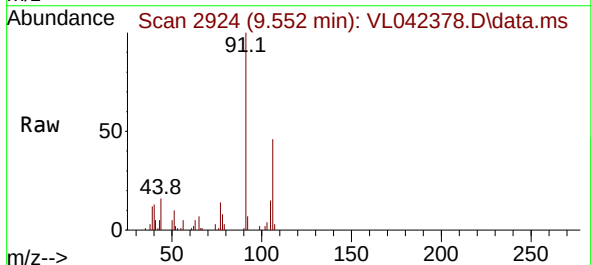
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025DL

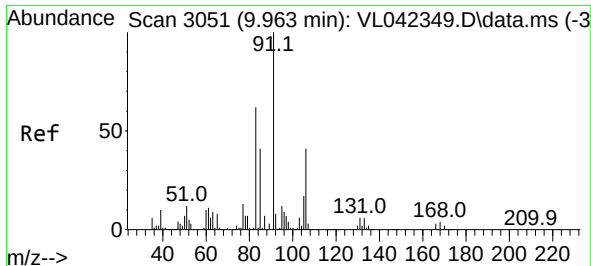
Tgt Ion: 91 Resp: 7859
Ion Ratio Lower Upper
91 100
106 31.6 23.0 34.4



#59
m/p-Xylene
Concen: 0.111 ppbv
RT: 9.552 min Scan# 2924
Delta R.T. -0.000 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32

Tgt Ion: 91 Resp: 4044
Ion Ratio Lower Upper
91 100
106 0.0 35.4 53.2#

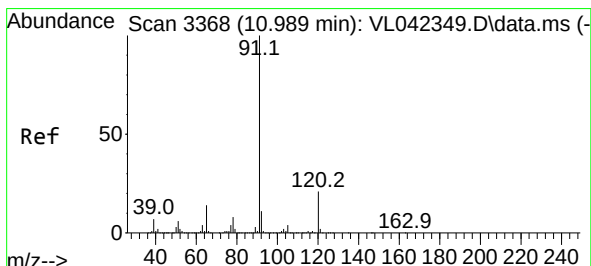
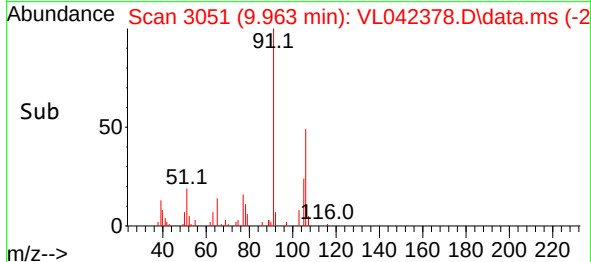
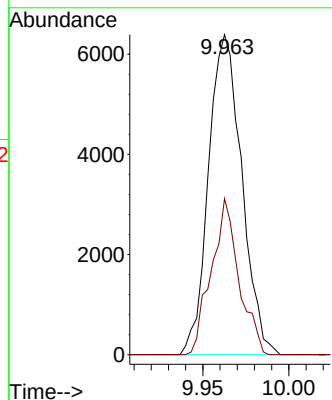
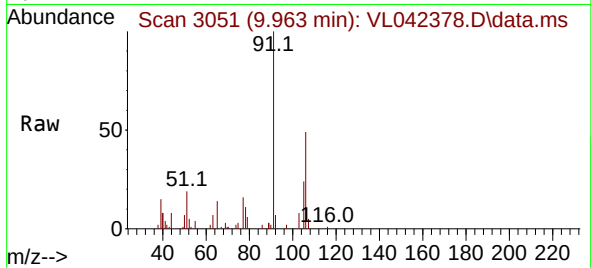




#60
o-Xylene
Concen: 0.233 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. -0.000 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32

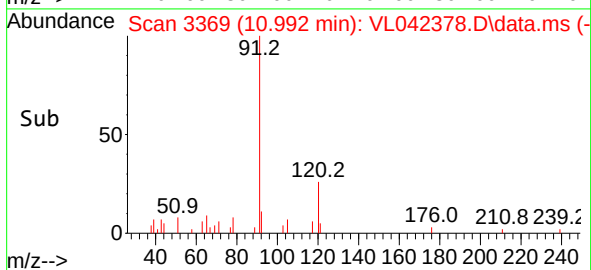
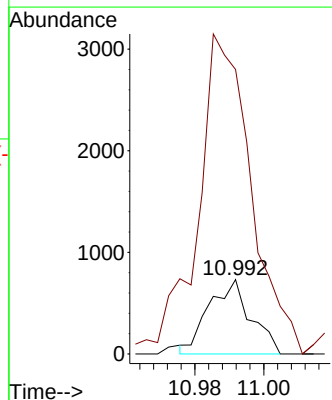
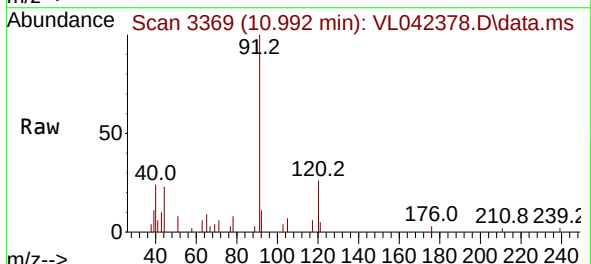
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025DL

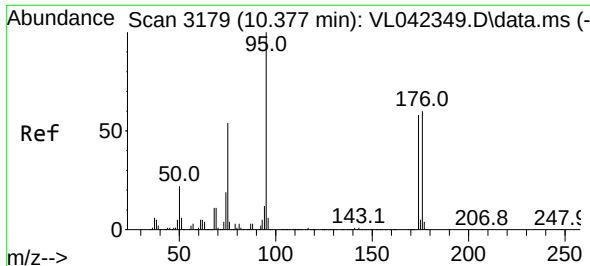
Tgt Ion: 91 Resp: 8584
Ion Ratio Lower Upper
91 100
106 40.6 21.1 63.4



#64
n-propylbenzene
Concen: 0.045 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. 0.003 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32

Tgt Ion: 120 Resp: 615
Ion Ratio Lower Upper
120 100
91 566.3 392.4 588.6

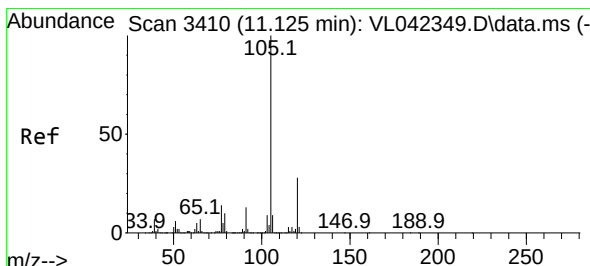
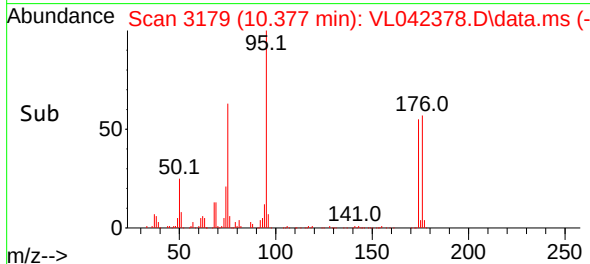
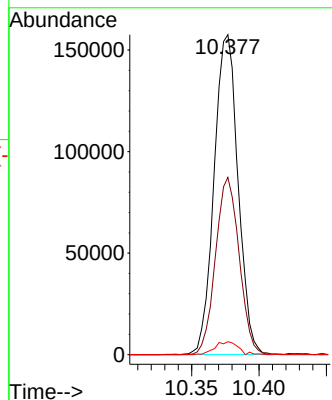
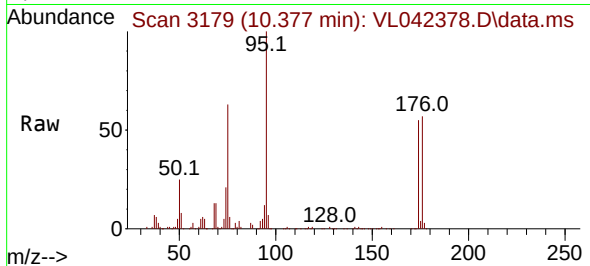




#68
1-Bromo-4-Fluorobenzene
Concen: 10.334 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. -0.000 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32

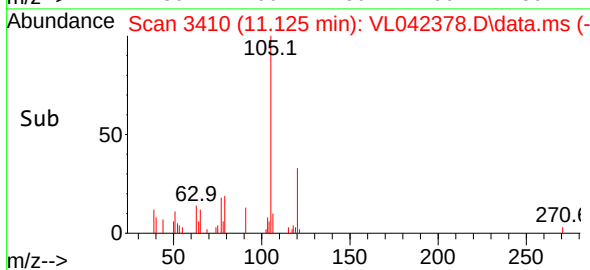
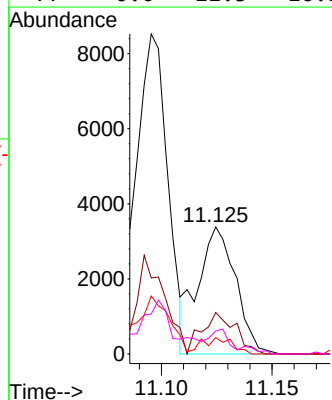
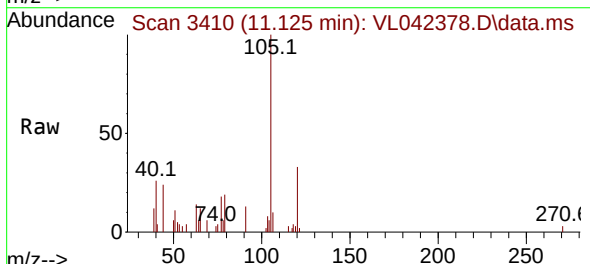
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025DL

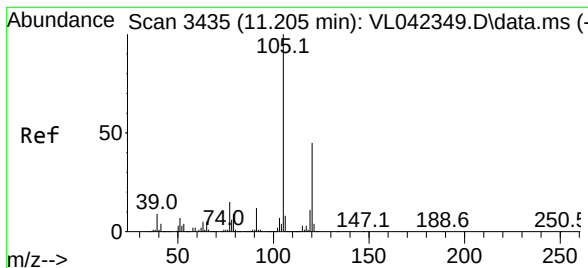
Tgt Ion: 95 Resp: 194344
Ion Ratio Lower Upper
95 100
174 55.0 48.5 72.7
175 4.0 3.7 5.5



#72
4-Ethyltoluene
Concen: 0.090 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. -0.000 min
Lab File: VL042378.D
Acq: 18 Apr 2025 02:32

Tgt Ion: 105 Resp: 4027
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: 0.056 ppbv

RT: 11.209 min Scan# 34

Delta R.T. 0.003 min

Lab File: VL042378.D

Acq: 18 Apr 2025 02:32

Instrument :

MSVOA_L

ClientSampleId :

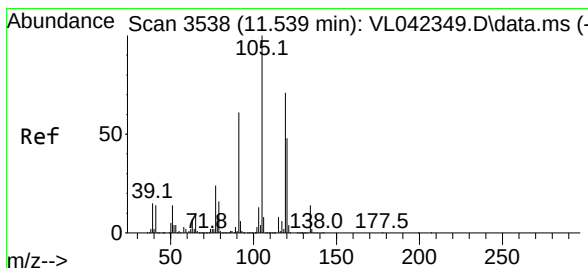
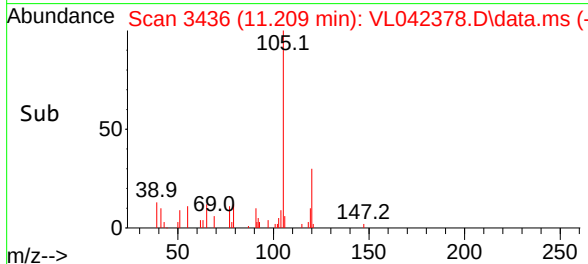
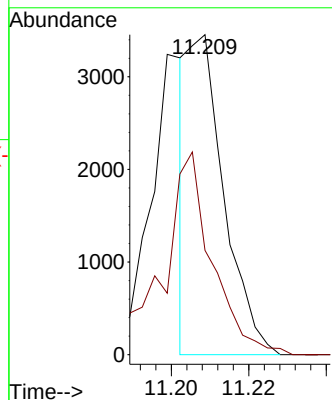
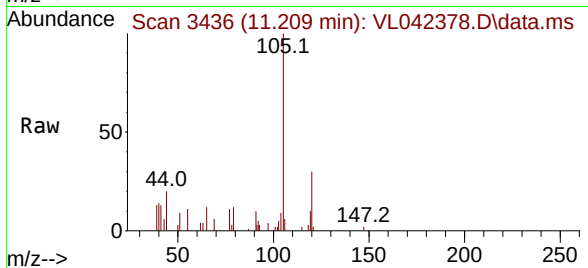
IA-B2-2-03312025DL

Tgt Ion:105 Resp: 2222

Ion Ratio Lower Upper

105 100

120 30.7 35.6 53.4#



#74

1,2,4-Trimethylbenzene

Concen: 0.289 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. -0.003 min

Lab File: VL042378.D

Acq: 18 Apr 2025 02:32

Tgt Ion:105 Resp: 13380

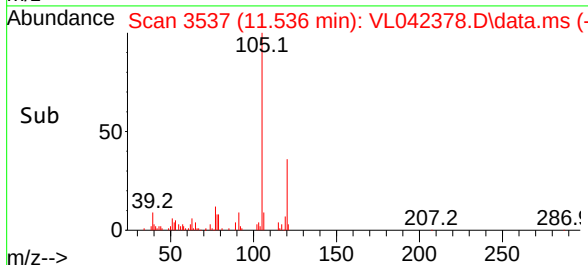
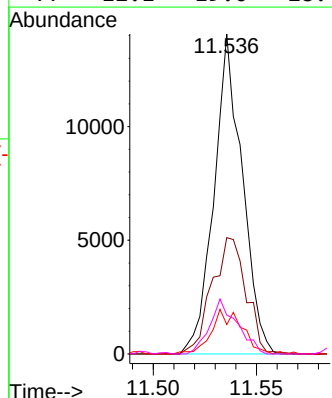
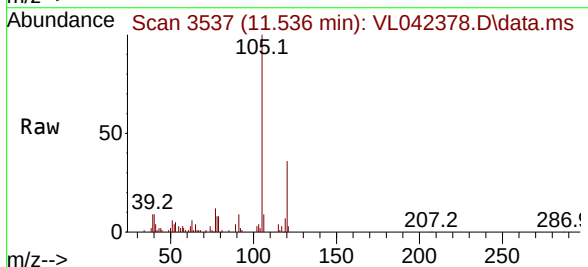
Ion Ratio Lower Upper

105 100

120 39.2 38.1 57.1

91 8.5 48.8 73.2#

77 12.1 19.0 28.4#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042379.D
 Acq On : 18 Apr 2025 03:03
 Operator : SY/MD
 Sample : Q1726-04DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-5-03312025DL

Quant Time: Apr 18 04:41:12 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

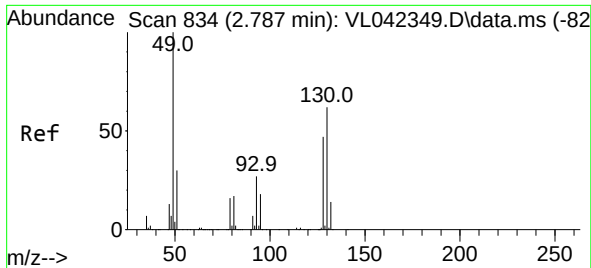
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.784	49	92518	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.956	114	260556	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	221578	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.371	95	188260	10.339	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.400%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.496	85	1002	0.061	ppbv #	59
3) Chlorodifluoromethane	1.467	51	3102	0.199	ppbv #	83
4) Chloromethane	1.531	50	420	0.065	ppbv #	75
9) Propene	1.486	41	1792	0.253	ppbv #	15
10) Heptane	4.972	43	5266	0.264	ppbv #	27
13) Ethanol	1.719	45	18982	16.847	ppbv	84
15) Acetone	1.832	43	401815	26.530	ppbv	100
16) 1,3-Butadiene	1.596	39	489	0.068	ppbv #	9
17) tert-Butyl alcohol	2.046	59	965	0.051	ppbv #	1
19) Isopropyl Alcohol	1.887	45	15229	1.810	ppbv #	1
20) Methylene Chloride	2.062	84	4584	0.773	ppbv	94
23) Vinyl Acetate	2.460	43	652	0.106	ppbv #	1
25) Ethyl Acetate	2.826	43	6315	0.169	ppbv #	86
26) Hexane	2.826	57	8415	0.557	ppbv #	35
30) Cyclohexane	3.849	84	1289	0.106	ppbv #	43
34) 2-Butanone	2.554	43	804	0.039	ppbv #	53
36) Benzene	3.651	78	3272	0.116	ppbv #	77
39) 1,2-Dichloropropane	3.952	63	70688	6.750	ppbv #	24
44) 2,2,4-Trimethylpentane	4.629	57	26285	0.542	ppbv #	29
53) Toluene	6.930	91	98263	2.914	ppbv	98
58) Ethyl Benzene	9.354	91	27028	0.616	ppbv	93
59) m/p-Xylene	9.526	91	79744	2.255	ppbv	100
60) o-Xylene	9.963	91	29832	0.838	ppbv	96
62) Isopropylbenzene	10.539	105	2709	0.052	ppbv	97
64) n-propylbenzene	10.986	120	1789	0.136	ppbv #	29
65) tert-Butylbenzene	11.532	119	6043	0.126	ppbv #	77
67) sec-Butylbenzene	11.879	105	11680	0.175	ppbv #	65
71) 2-Chlorotoluene	10.895	91	1357	0.033	ppbv	78
72) 4-Ethyltoluene	11.125	105	12986	0.298	ppbv #	63
73) 1,3,5-Trimethylbenzene	11.202	105	15149	0.394	ppbv	94
74) 1,2,4-Trimethylbenzene	11.536	105	50354	1.122	ppbv #	62
79) Naphthalene	13.513	128	3721	0.069	ppbv	98

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

Quant Time: Apr 18 04:41:12 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

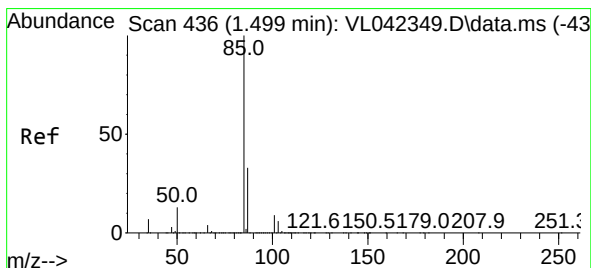
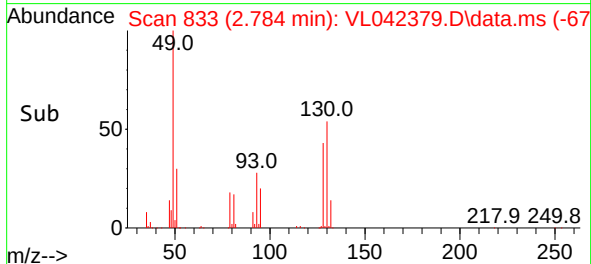
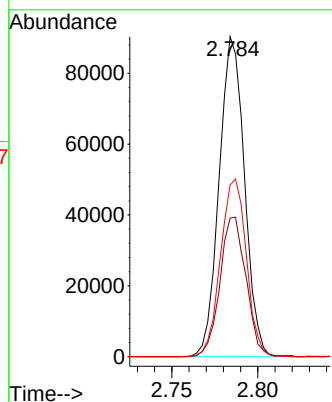
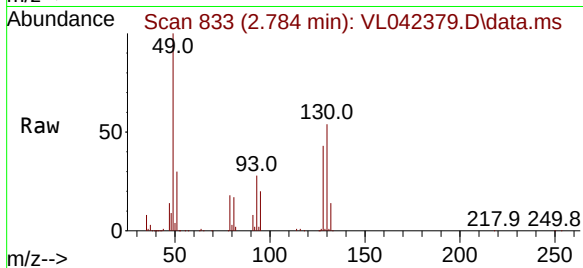




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

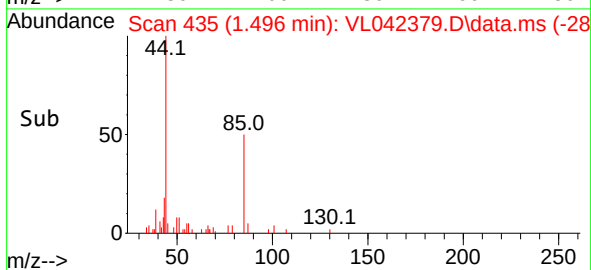
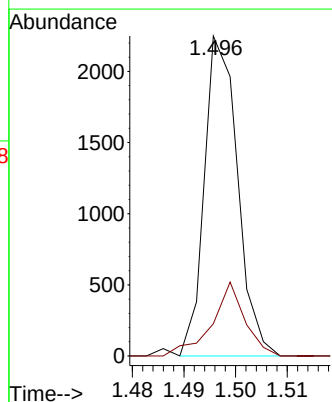
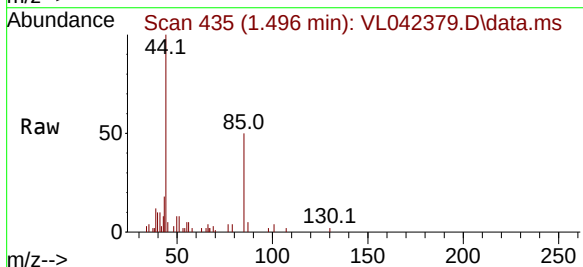
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL

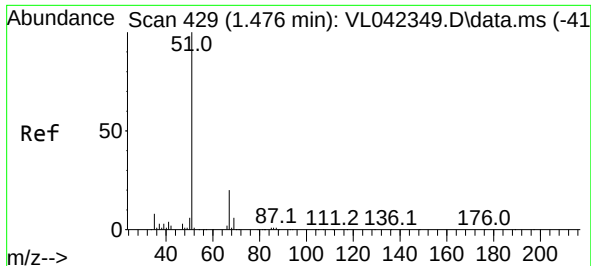
Tgt Ion: 49 Resp: 92518
Ion Ratio Lower Upper
49 100
128 44.8 22.8 68.4
130 56.6 29.3 88.0



#2
Dichlorodifluoromethane
Concen: 0.061 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

Tgt Ion: 85 Resp: 1002
Ion Ratio Lower Upper
85 100
87 10.1 26.6 39.8

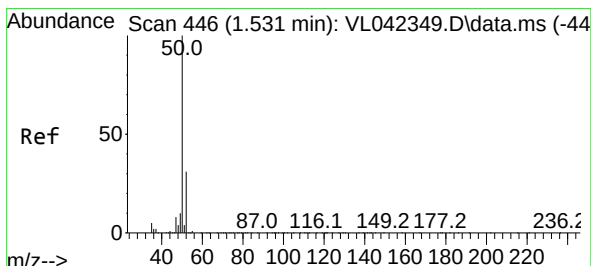
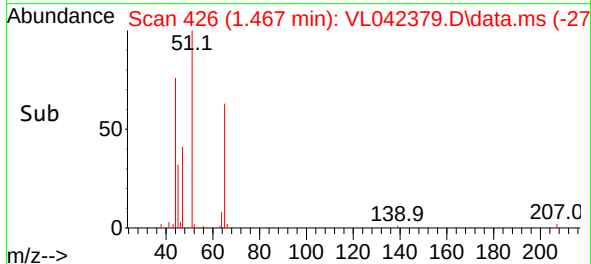
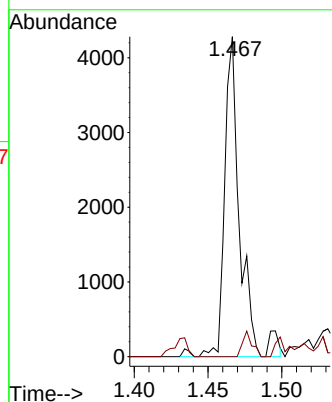
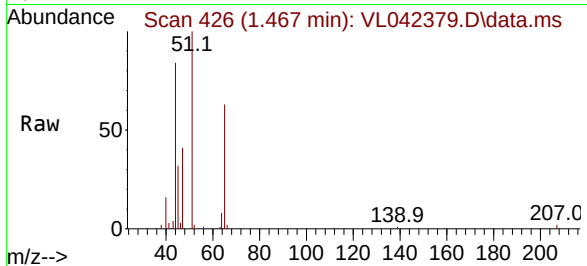




#3
Chlorodifluoromethane
Concen: 0.199 ppbv
RT: 1.467 min Scan# 41
Delta R.T. -0.010 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

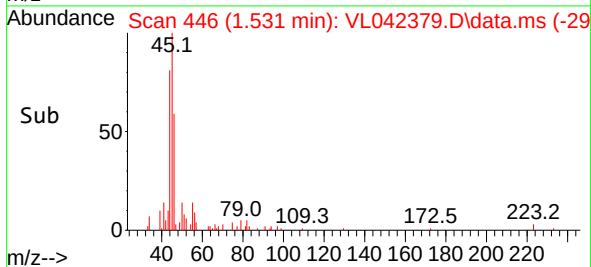
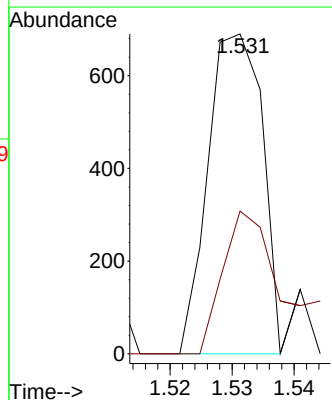
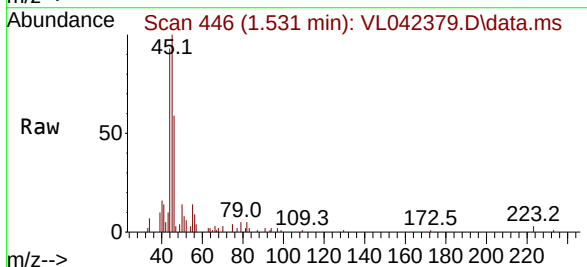
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL

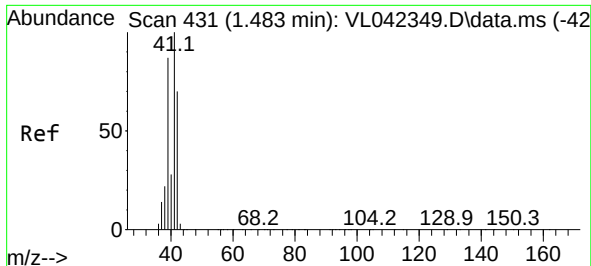
Tgt Ion: 51 Resp: 3102
Ion Ratio Lower Upper
51 100
67 12.3 16.2 24.4#



#4
Chloromethane
Concen: 0.065 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

Tgt Ion: 50 Resp: 420
Ion Ratio Lower Upper
50 100
52 44.6 24.7 37.1#





#9

Propene

Concen: 0.253 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042379.D

Acq: 18 Apr 2025 03:03

Instrument :

MSVOA_L

ClientSampleId :

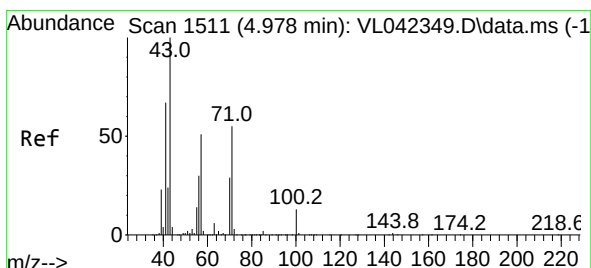
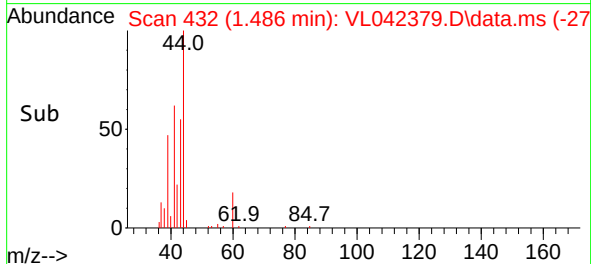
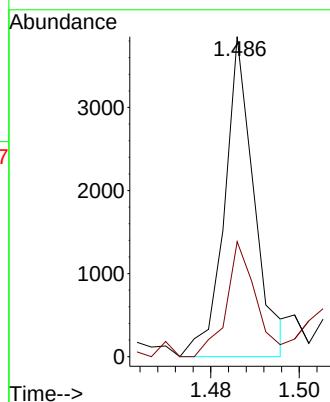
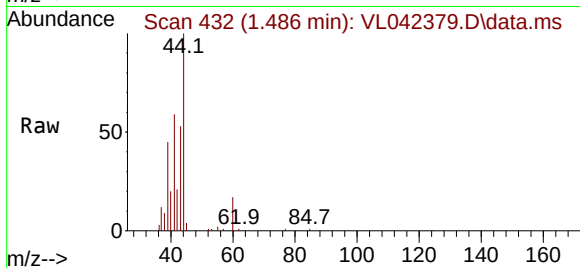
IA-B2-5-03312025DL

Tgt Ion: 41 Resp: 1792

Ion Ratio Lower Upper

41 100

42 0.0 56.2 84.4#



#10

Heptane

Concen: 0.264 ppbv

RT: 4.972 min Scan# 1509

Delta R.T. -0.006 min

Lab File: VL042379.D

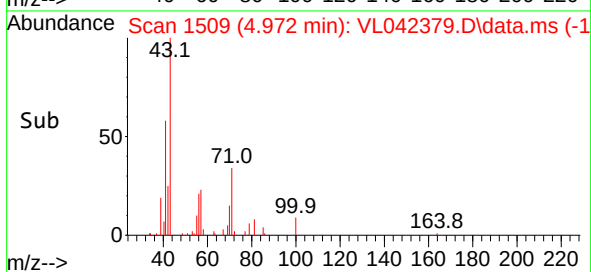
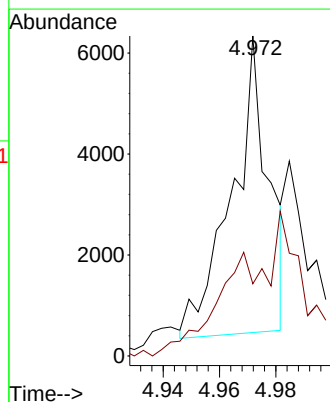
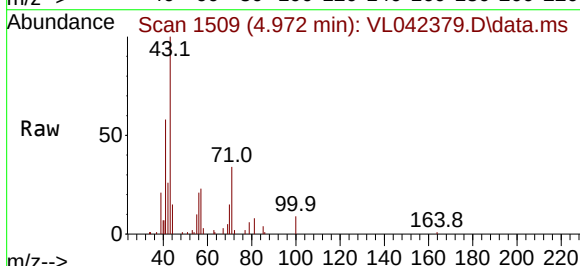
Acq: 18 Apr 2025 03:03

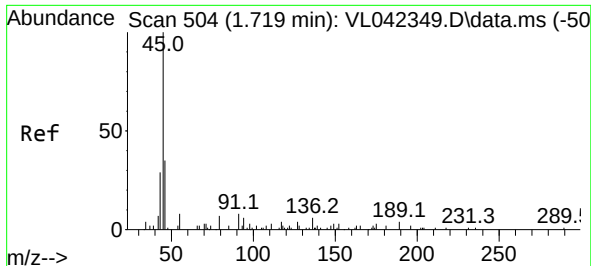
Tgt Ion: 43 Resp: 5266

Ion Ratio Lower Upper

43 100

57 0.0 39.9 59.9#

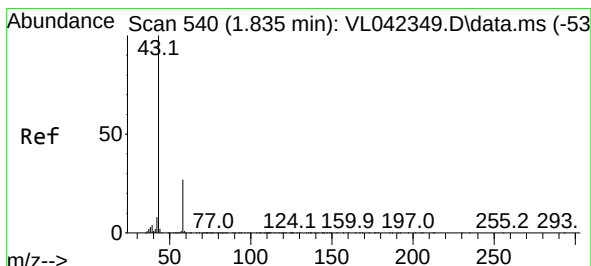
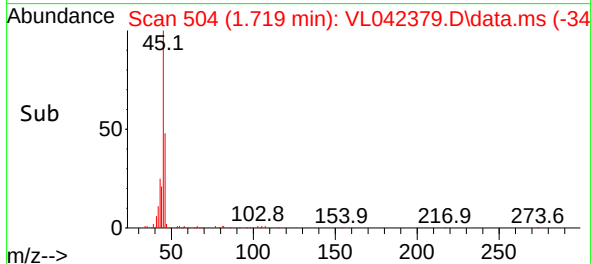
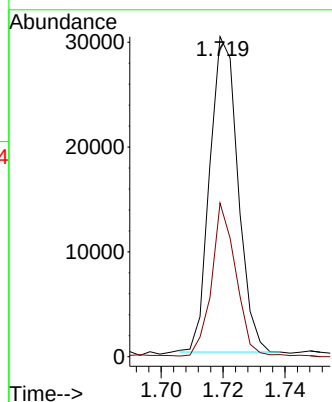
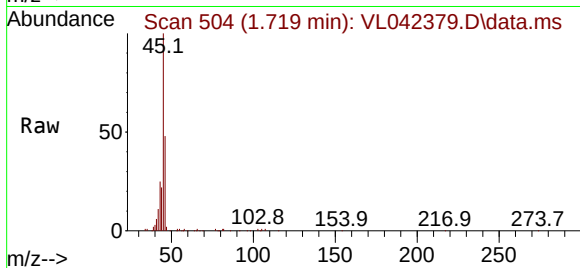




#13
Ethanol
Concen: 16.847 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

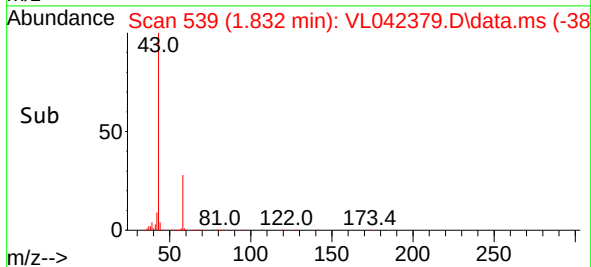
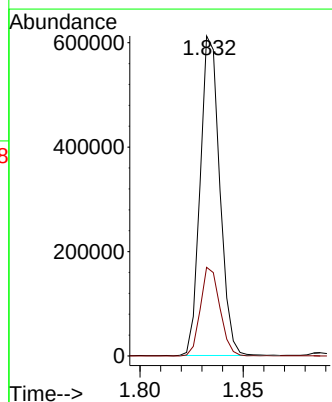
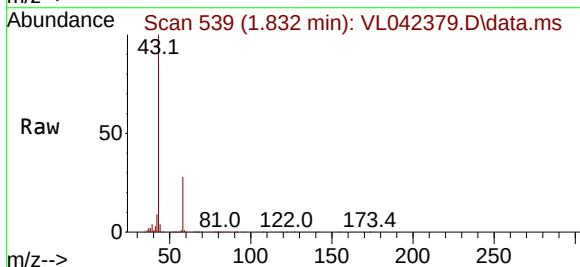
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL

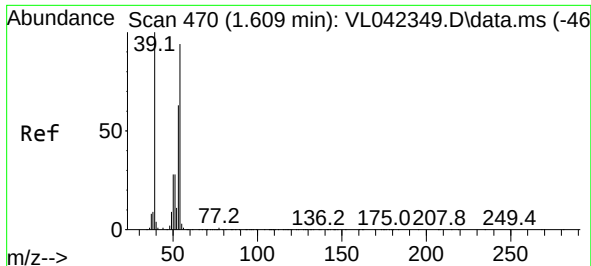
Tgt Ion: 45 Resp: 18982
Ion Ratio Lower Upper
45 100
46 43.4 21.9 87.7



#15
Acetone
Concen: 26.530 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.003 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

Tgt Ion: 43 Resp: 401815
Ion Ratio Lower Upper
43 100
58 27.9 22.4 33.6

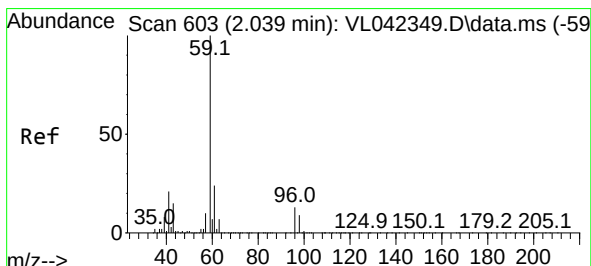
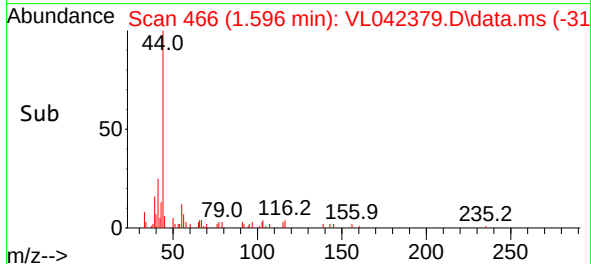
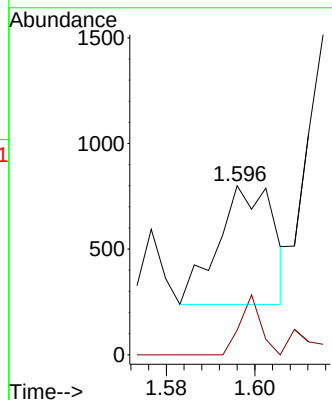
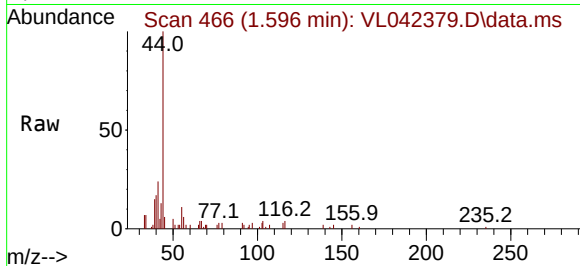




#16
1,3-Butadiene
Concen: 0.068 ppbv
RT: 1.596 min Scan# 41
Delta R.T. -0.013 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

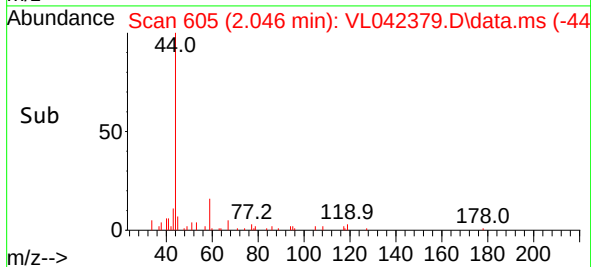
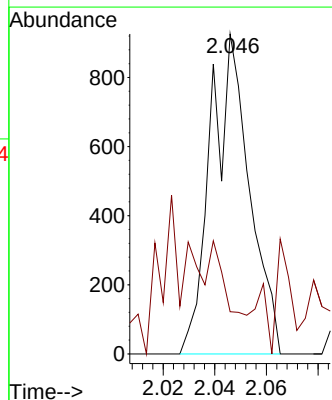
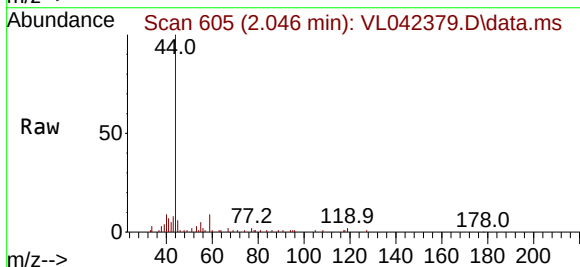
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL

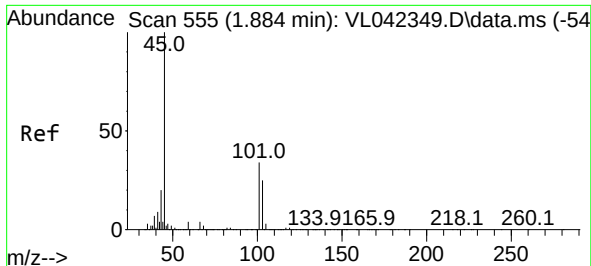
Tgt Ion: 39 Resp: 489
Ion Ratio Lower Upper
39 100
54 0.0 64.9 97.3#



#17
tert-Butyl alcohol
Concen: 0.051 ppbv
RT: 2.046 min Scan# 605
Delta R.T. 0.007 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

Tgt Ion: 59 Resp: 965
Ion Ratio Lower Upper
59 100
57 62.3 8.7 13.1#

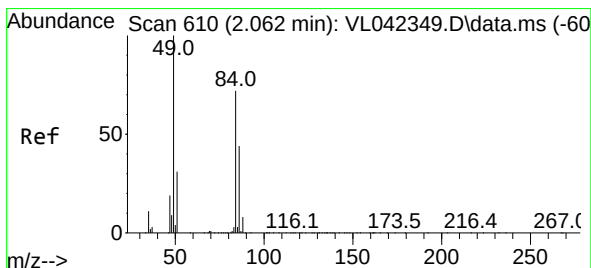
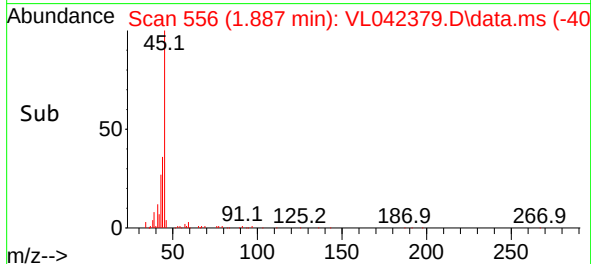
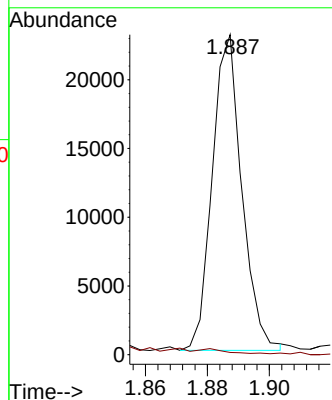
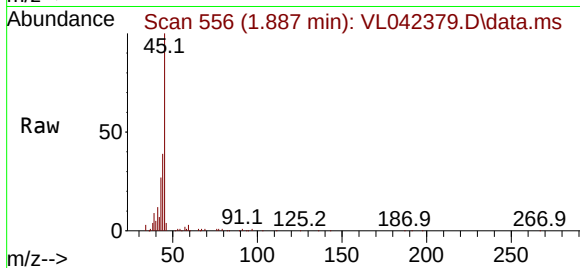




#19
Isopropyl Alcohol
Concen: 1.810 ppbv
RT: 1.887 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

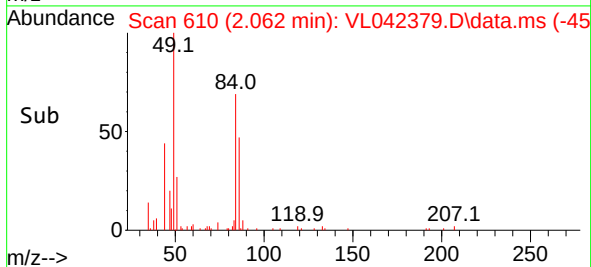
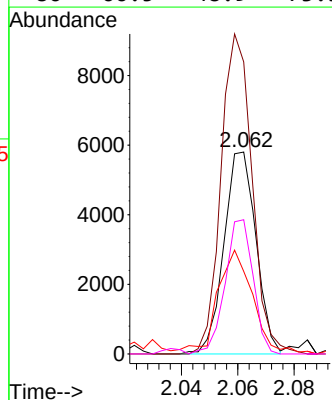
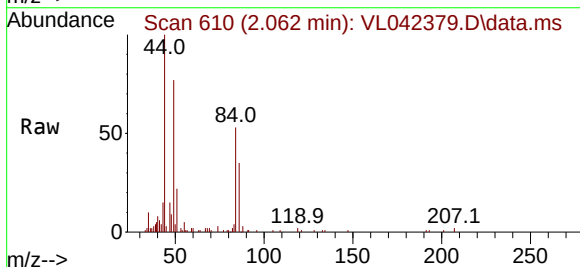
Instrument :
MSVOA_1
ClientSampleId :
IA-B2-5-03312025DL

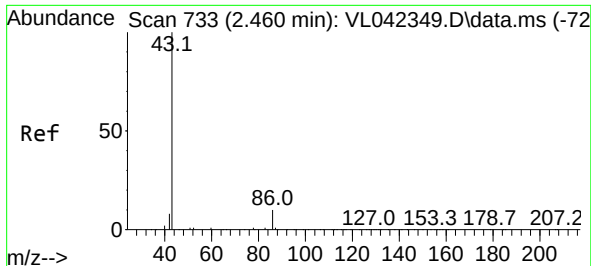
Tgt Ion: 45 Resp: 15229
Ion Ratio Lower Upper
45 100
58 737.4 34.5 51.7#



#20
Methylene Chloride
Concen: 0.773 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

Tgt Ion: 84 Resp: 4584
Ion Ratio Lower Upper
84 100
49 144.6 111.6 167.4
51 38.7 35.1 52.7
86 66.5 48.9 73.3

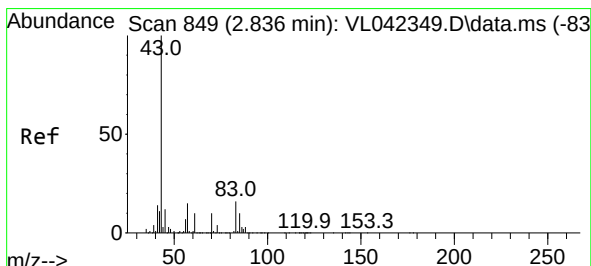
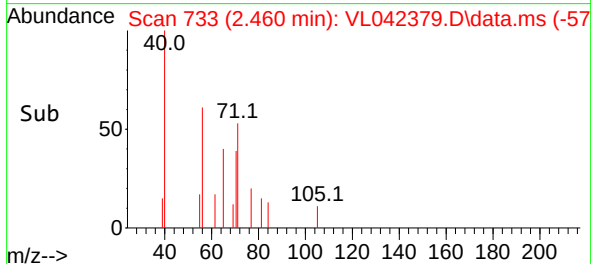
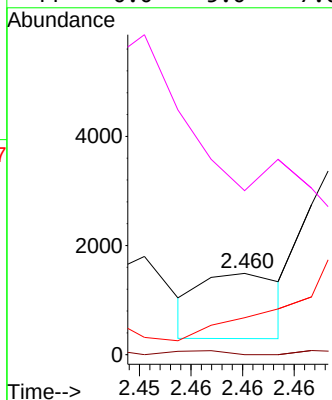
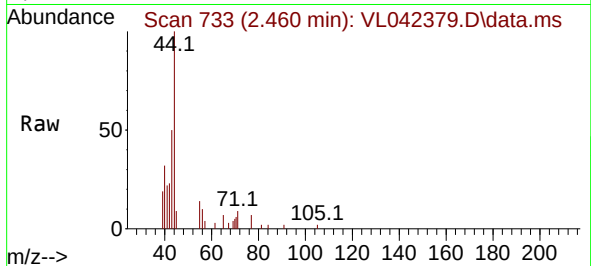




#23
 Vinyl Acetate
 Concen: 0.106 ppbv
 RT: 2.460 min Scan# 71
 Delta R.T. 0.000 min
 Lab File: VL042379.D
 Acq: 18 Apr 2025 03:03

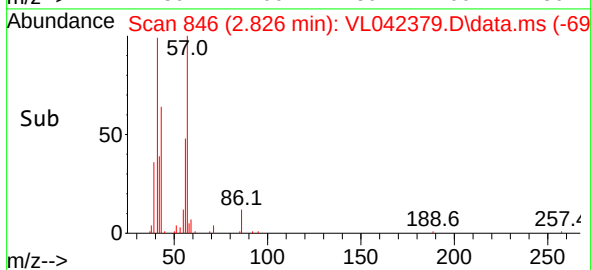
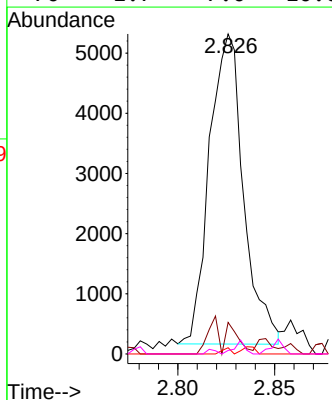
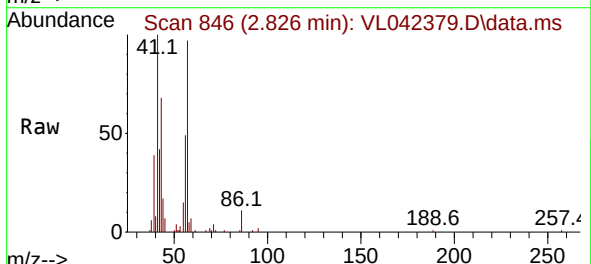
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-5-03312025DL

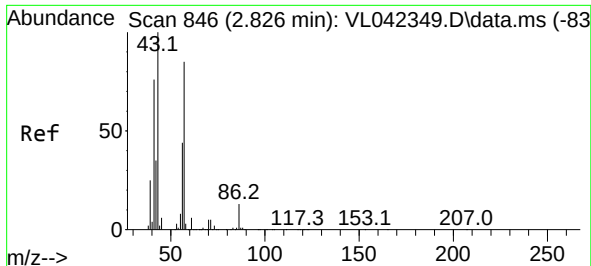
Tgt Ion: 43	Resp: 652
Ion Ratio	Lower Upper
43 100	
86 0.0	6.5 9.7#
42 94.4	7.8 11.8#
44 0.0	5.0 7.6#



#25
 Ethyl Acetate
 Concen: 0.169 ppbv
 RT: 2.826 min Scan# 846
 Delta R.T. -0.010 min
 Lab File: VL042379.D
 Acq: 18 Apr 2025 03:03

Tgt	Ion: 43	Resp:	6315
Ion	Ratio	Lower	Upper
43	100		
45	11.7	8.3	12.5
61	1.4	7.3	10.9#
70	1.7	7.0	10.6#

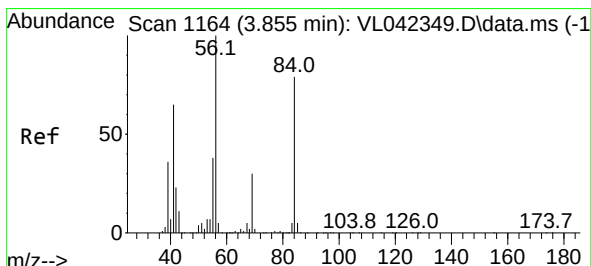
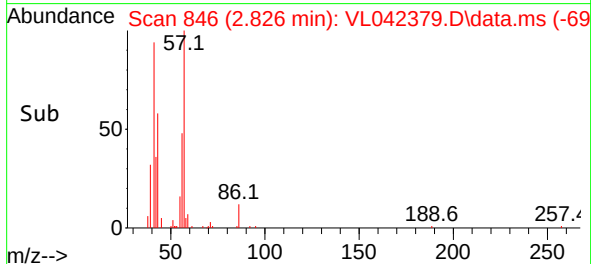
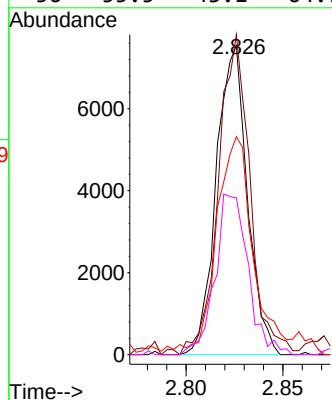
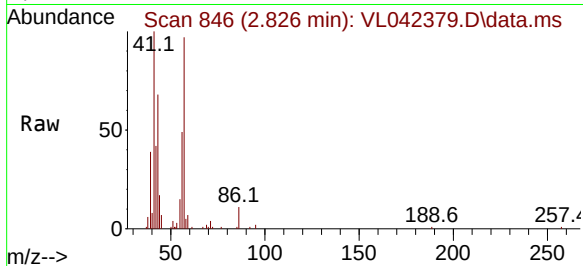




#26
Hexane
Concen: 0.557 ppbv
RT: 2.826 min Scan# 841
Delta R.T. 0.000 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

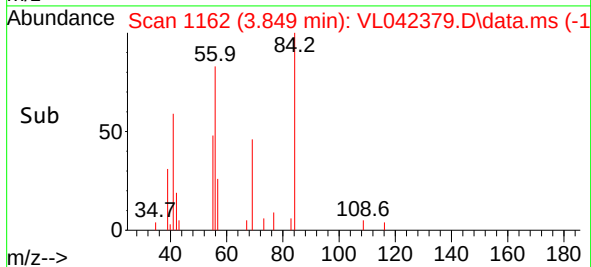
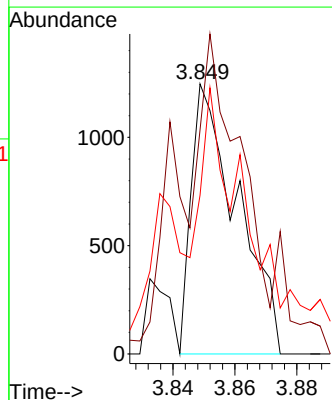
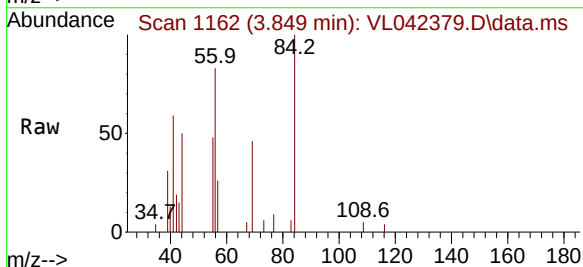
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL

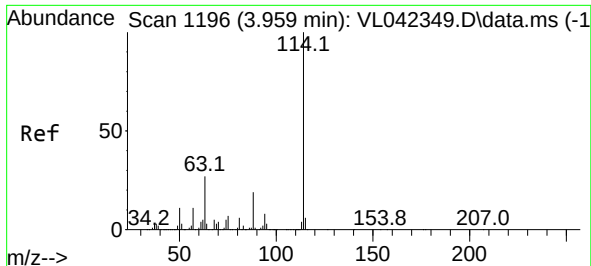
Tgt Ion:	57	Resp:	8415
Ion	Ratio	Lower	Upper
57	100		
41	107.4	77.9	116.9
43	84.9	208.4	312.6#
56	55.5	43.1	64.7



#30
Cyclohexane
Concen: 0.106 ppbv
RT: 3.849 min Scan# 1162
Delta R.T. -0.006 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

Tgt Ion:	84	Resp:	1289
Ion	Ratio	Lower	Upper
84	100		
56	172.8	101.0	151.4#
41	157.4	67.4	101.0#

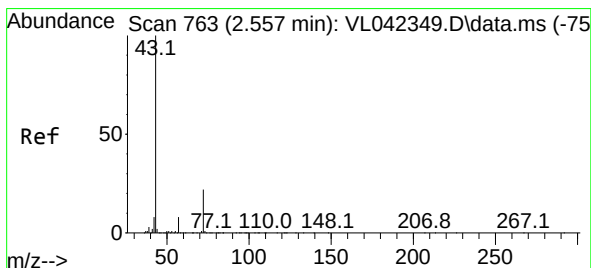
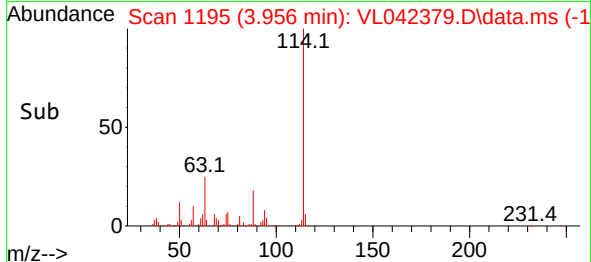
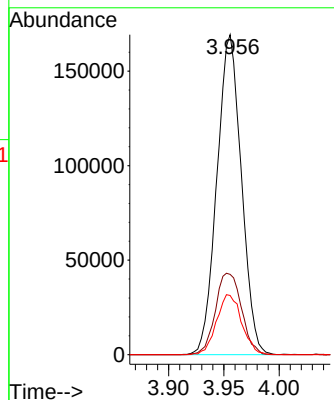
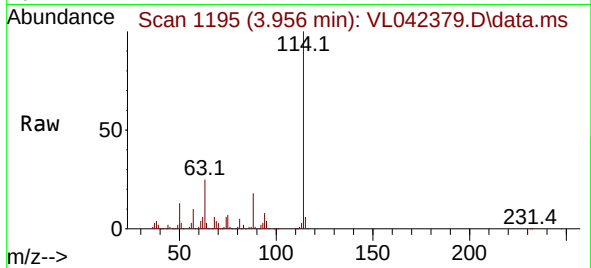




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.956 min Scan# 1195
Delta R.T. -0.003 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

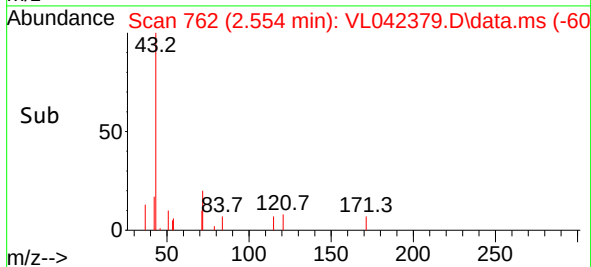
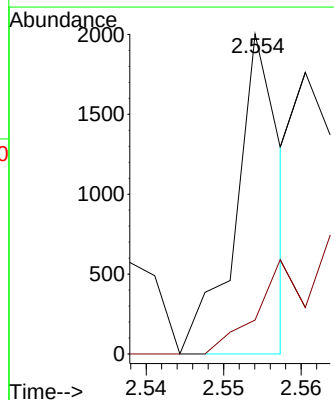
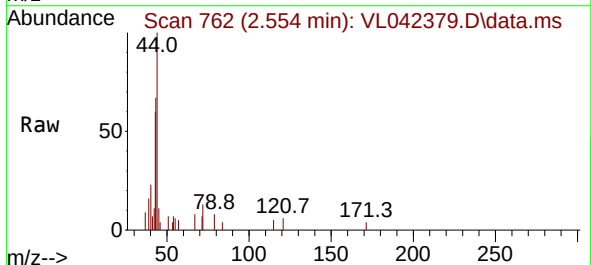
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL

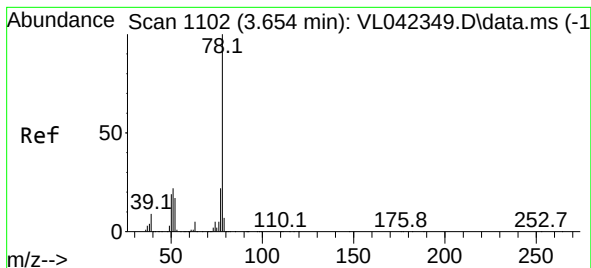
Tgt Ion:114 Resp: 260556
Ion Ratio Lower Upper
114 100
63 27.2 21.8 32.6
88 19.2 15.5 23.3



#34
2-Butanone
Concen: 0.039 ppbv
RT: 2.554 min Scan# 762
Delta R.T. -0.003 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

Tgt Ion: 43 Resp: 804
Ion Ratio Lower Upper
43 100
72 0.0 18.2 27.2#





#36

Benzene

Concen: 0.116 ppbv

RT: 3.651 min Scan# 1101

Delta R.T. -0.003 min

Lab File: VL042379.D

Acq: 18 Apr 2025 03:03

Instrument :

MSVOA_L

ClientSampleId :

IA-B2-5-03312025DL

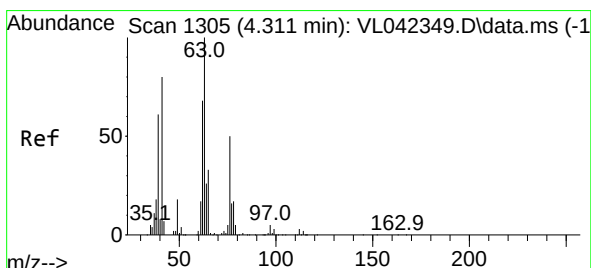
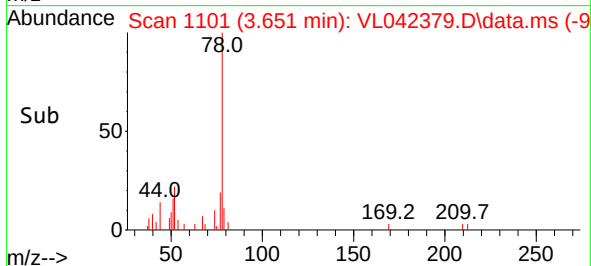
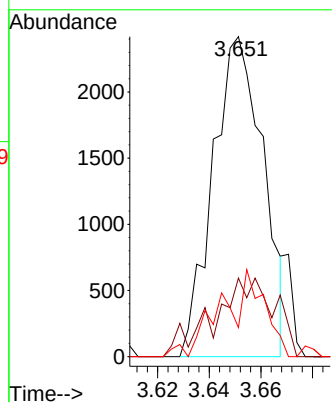
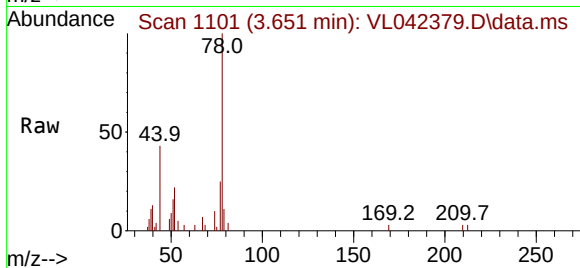
Tgt Ion: 78 Resp: 3272

Ion Ratio Lower Upper

78 100

77 14.1 17.4 26.0#

50 5.3 15.5 23.3#



#39

1,2-Dichloropropane

Concen: 6.750 ppbv

RT: 3.952 min Scan# 1194

Delta R.T. -0.359 min

Lab File: VL042379.D

Acq: 18 Apr 2025 03:03

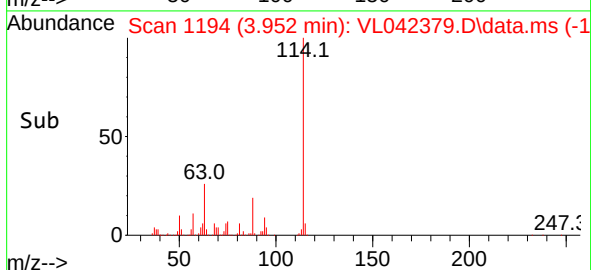
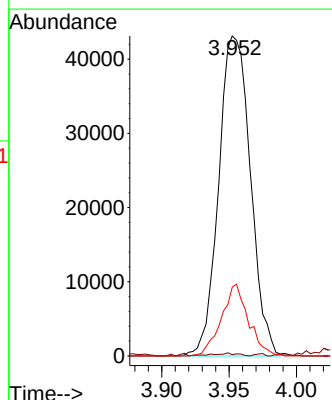
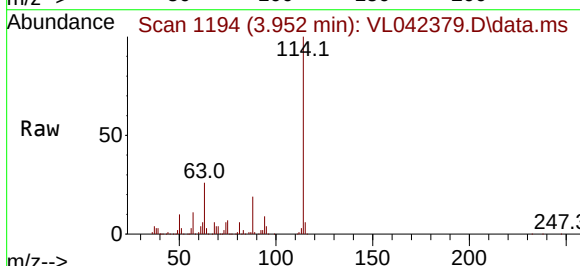
Tgt Ion: 63 Resp: 70688

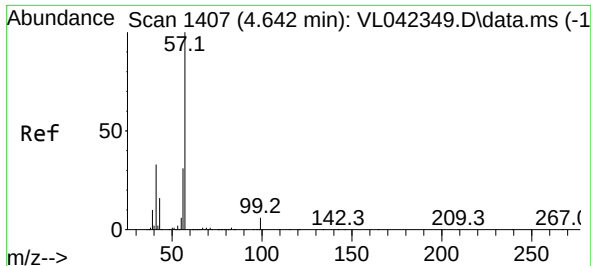
Ion Ratio Lower Upper

63 100

41 0.0 64.2 96.2#

62 21.5 54.3 81.5#

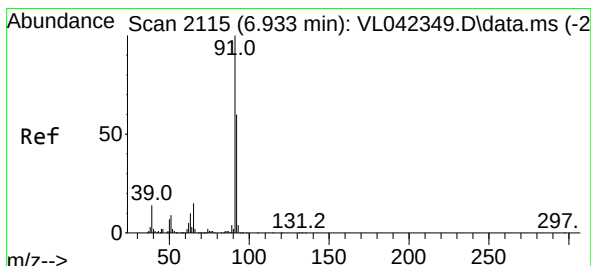
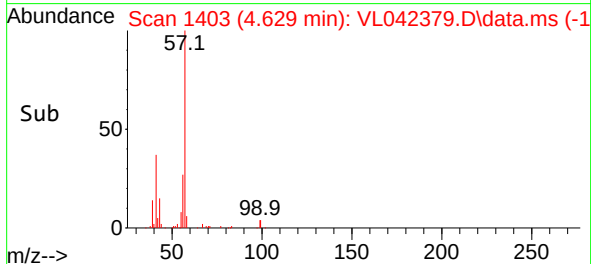
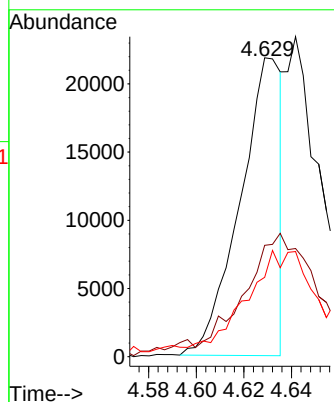
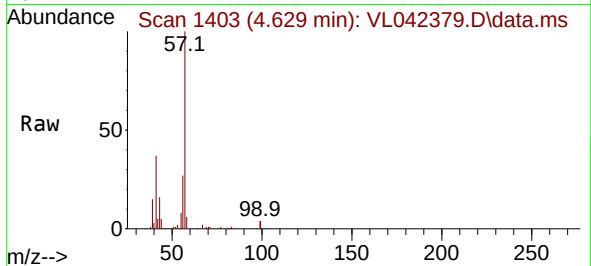




#44
2,2,4-Trimethylpentane
Concen: 0.542 ppbv
RT: 4.629 min Scan# 1403
Delta R.T. -0.013 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

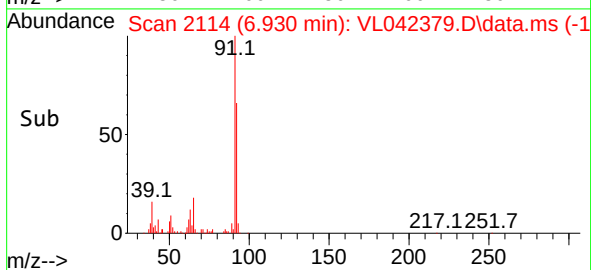
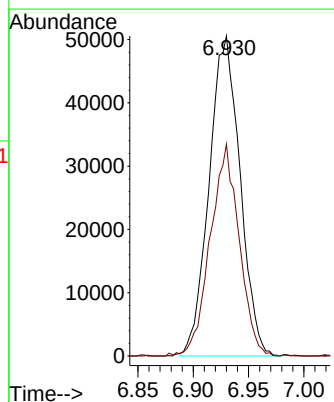
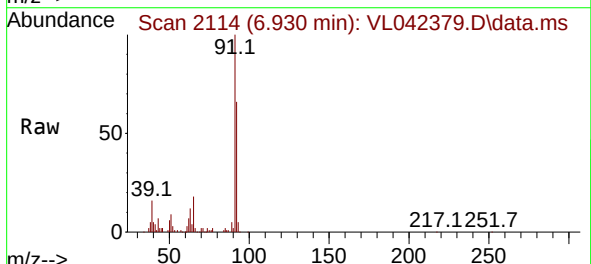
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL

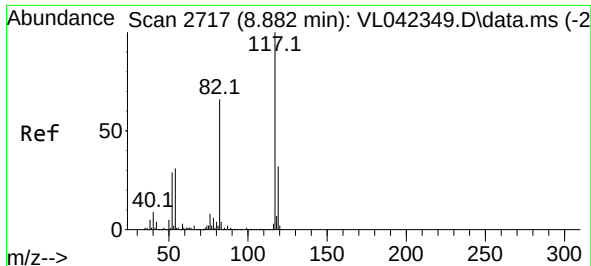
Tgt Ion: 57 Resp: 26285
Ion Ratio Lower Upper
57 100
41 78.0 27.2 40.8#
56 68.2 25.7 38.5#



#53
Toluene
Concen: 2.914 ppbv
RT: 6.930 min Scan# 2114
Delta R.T. -0.003 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

Tgt Ion: 91 Resp: 98263
Ion Ratio Lower Upper
91 100
92 61.9 48.2 72.4

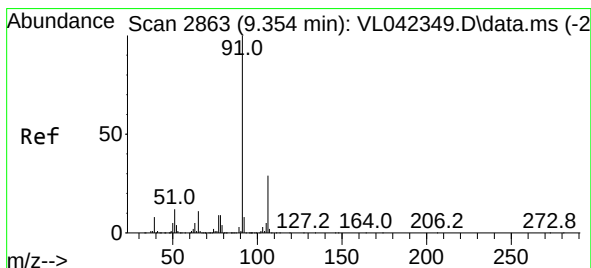
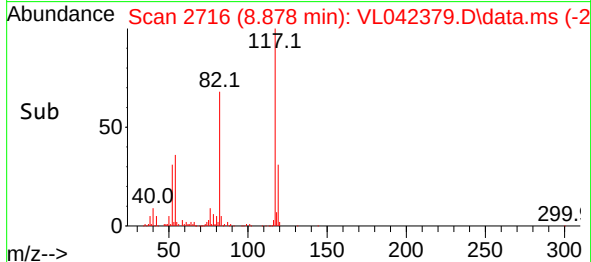
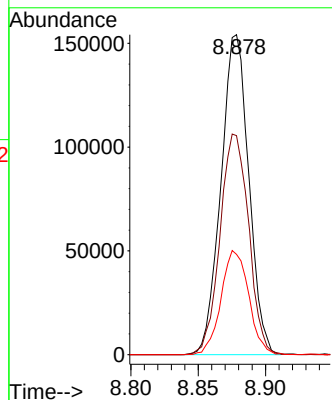
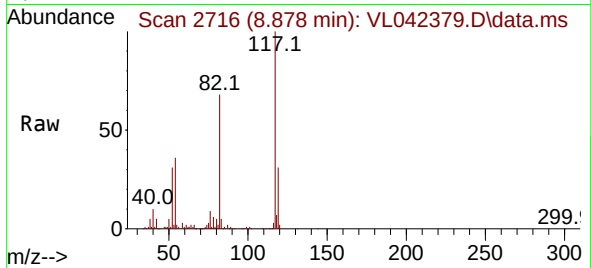




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

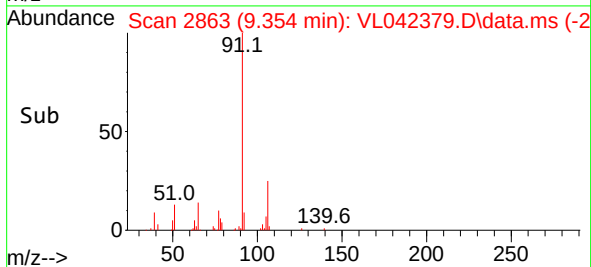
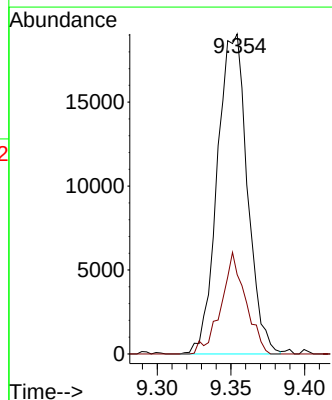
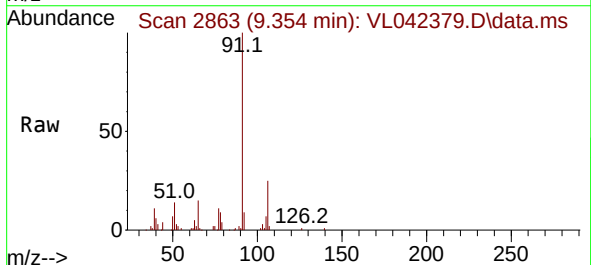
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL

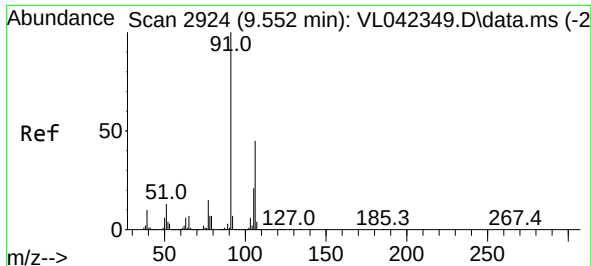
Tgt Ion:117 Resp: 221578
Ion Ratio Lower Upper
117 100
82 70.9 57.8 86.6
119 32.4 25.2 37.8



#58
Ethyl Benzene
Concen: 0.616 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.000 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

Tgt Ion: 91 Resp: 27028
Ion Ratio Lower Upper
91 100
106 24.8 23.0 34.4





#59

m/p-Xylene

Concen: 2.255 ppbv

RT: 9.526 min Scan# 2916

Delta R.T. -0.026 min

Lab File: VL042379.D

Acq: 18 Apr 2025 03:03

Instrument :

MSVOA_L

ClientSampleId :

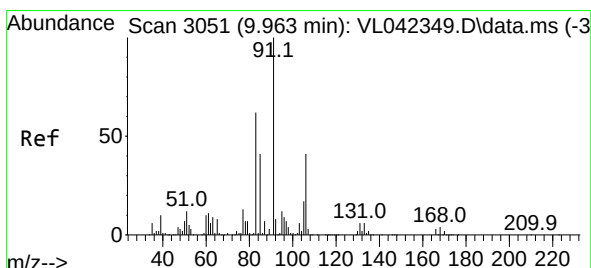
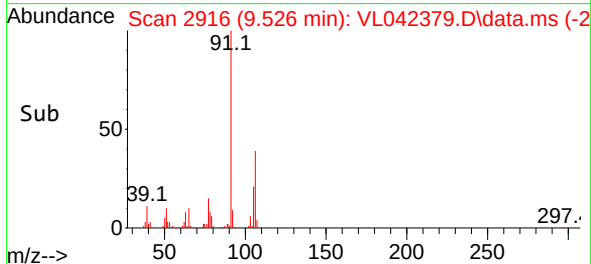
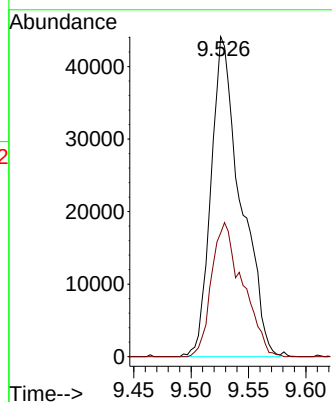
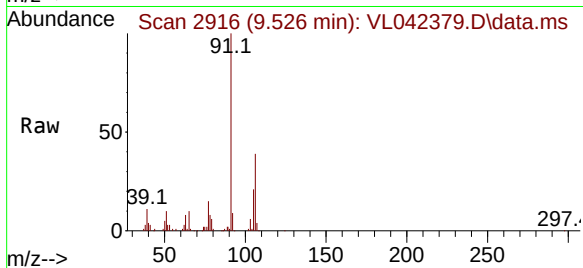
IA-B2-5-03312025DL

Tgt Ion: 91 Resp: 79744

Ion Ratio Lower Upper

91 100

106 44.0 35.4 53.2



#60

o-Xylene

Concen: 0.838 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. 0.000 min

Lab File: VL042379.D

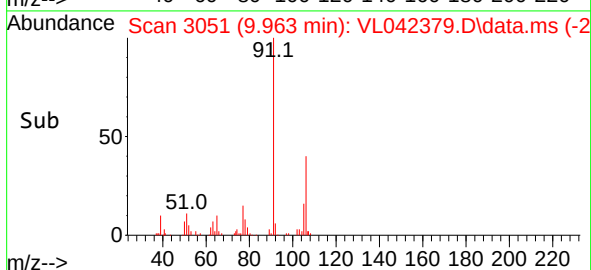
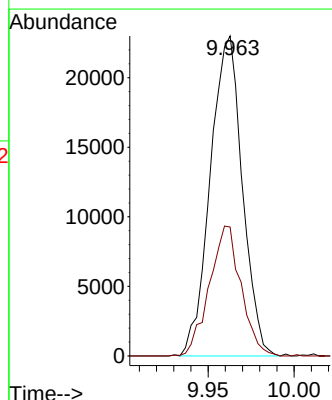
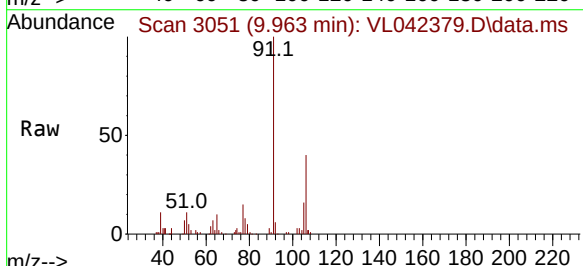
Acq: 18 Apr 2025 03:03

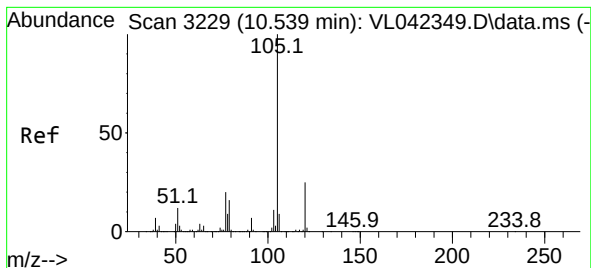
Tgt Ion: 91 Resp: 29832

Ion Ratio Lower Upper

91 100

106 40.0 21.1 63.4





#62

Isopropylbenzene

Concen: 0.052 ppbv

RT: 10.539 min Scan# 31

Delta R.T. 0.000 min

Lab File: VL042379.D

Acq: 18 Apr 2025 03:03

Instrument :

MSVOA_1

ClientSampleId :

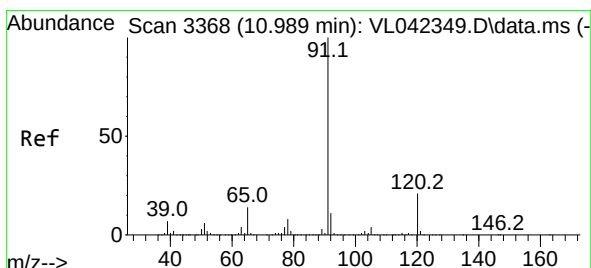
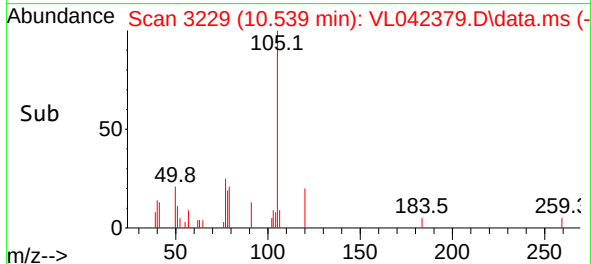
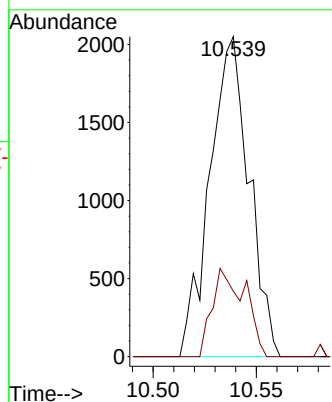
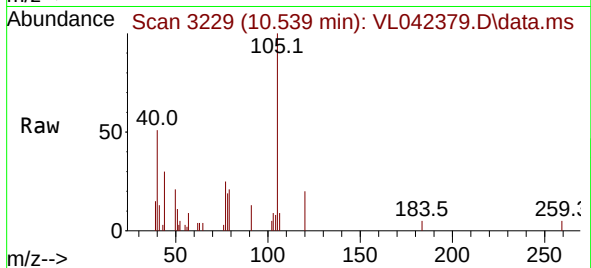
IA-B2-5-03312025DL

Tgt Ion:105 Resp: 2709

Ion Ratio Lower Upper

105 100

120 23.1 19.8 29.8



#64

n-propylbenzene

Concen: 0.136 ppbv

RT: 10.986 min Scan# 3367

Delta R.T. -0.003 min

Lab File: VL042379.D

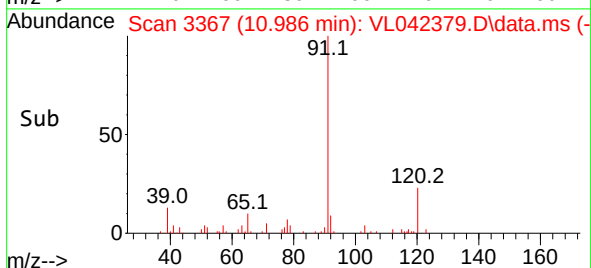
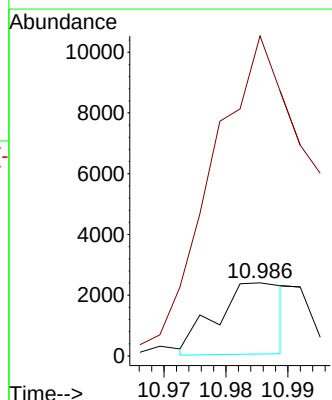
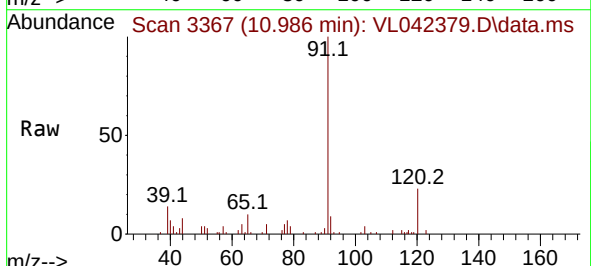
Acq: 18 Apr 2025 03:03

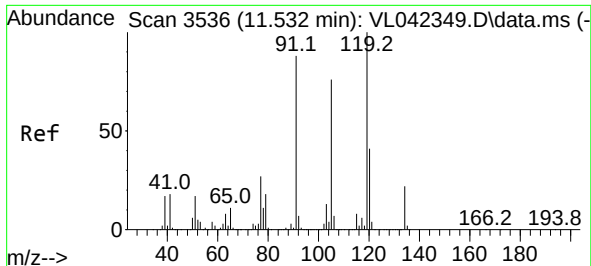
Tgt Ion:120 Resp: 1789

Ion Ratio Lower Upper

120 100

91 682.3 392.4 588.6#

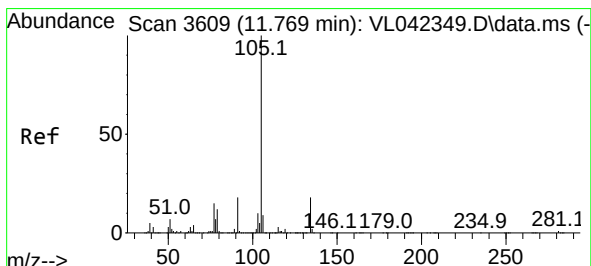
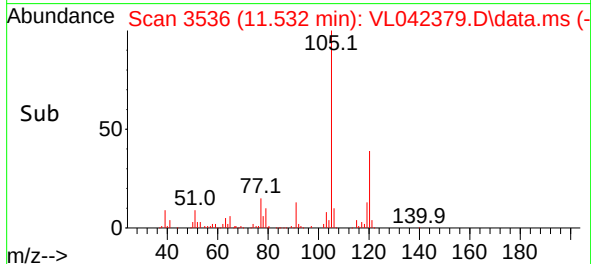
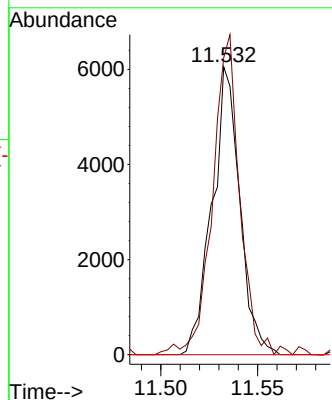
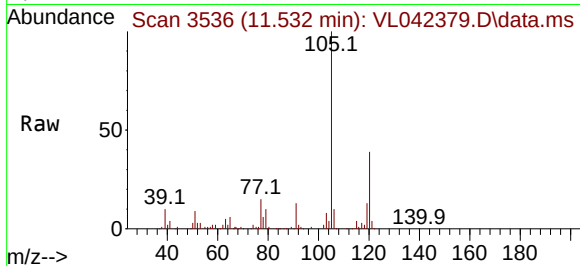




#65
tert-Butylbenzene
Concen: 0.126 ppbv
RT: 11.532 min Scan# 311
Delta R.T. 0.000 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

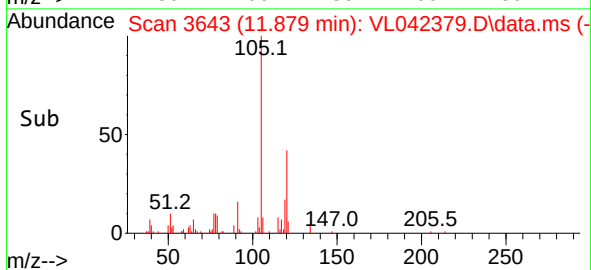
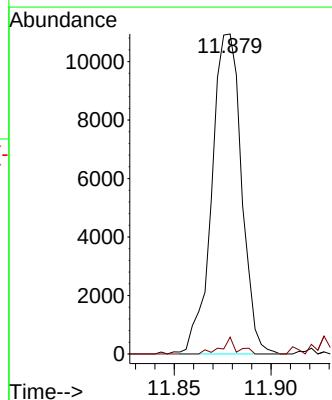
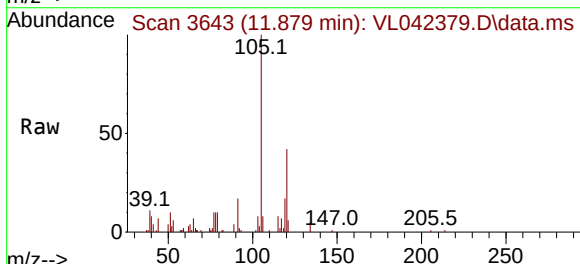
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL

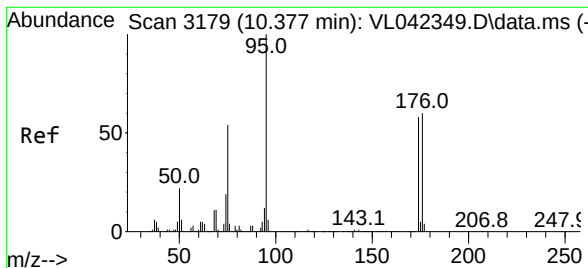
Tgt Ion:119 Resp: 6043
Ion Ratio Lower Upper
119 100
91 109.8 74.6 111.8
134 0.0 18.8 28.2#



#67
sec-Butylbenzene
Concen: 0.175 ppbv
RT: 11.879 min Scan# 3643
Delta R.T. 0.110 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

Tgt Ion:105 Resp: 11680
Ion Ratio Lower Upper
105 100
134 2.6 14.6 21.8#

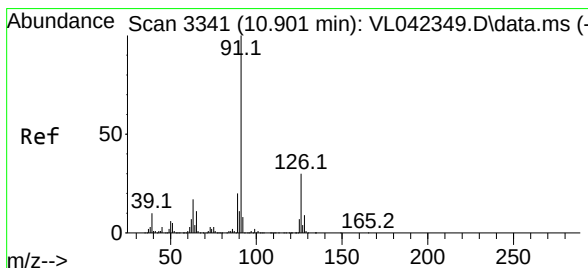
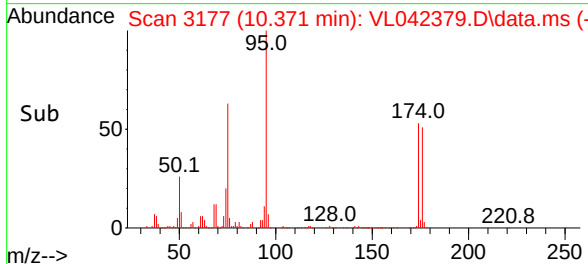
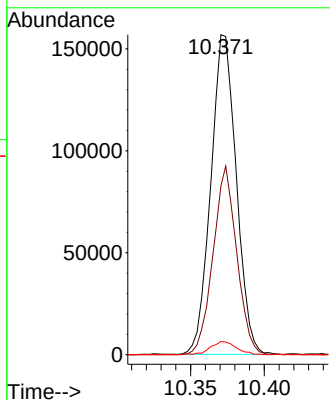
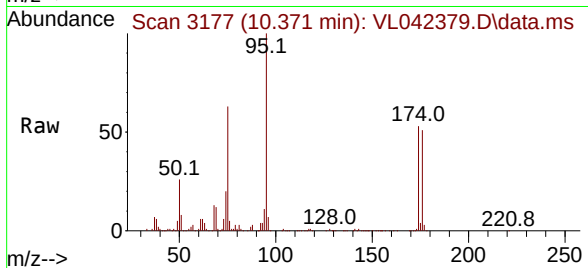




#68
1-Bromo-4-Fluorobenzene
Concen: 10.339 ppbv
RT: 10.371 min Scan# 3177
Delta R.T. -0.006 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

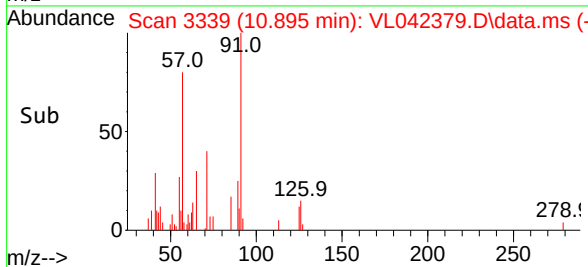
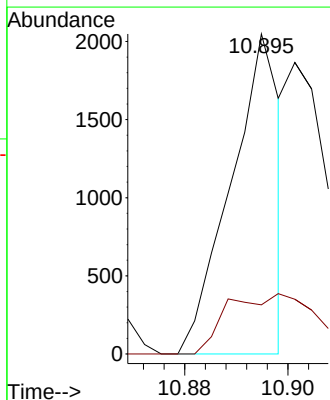
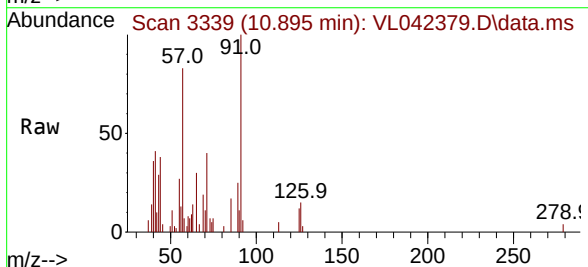
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL

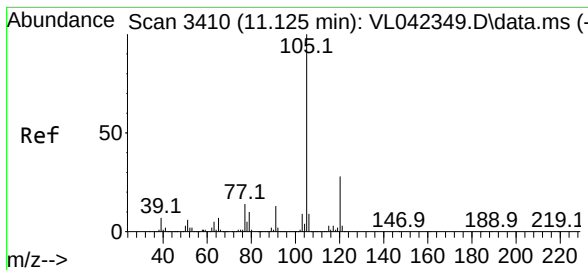
Tgt Ion: 95 Resp: 188260
Ion Ratio Lower Upper
95 100
174 54.8 48.5 72.7
175 4.2 3.7 5.5



#71
2-Chlorotoluene
Concen: 0.033 ppbv
RT: 10.895 min Scan# 3339
Delta R.T. -0.006 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

Tgt Ion: 91 Resp: 1357
Ion Ratio Lower Upper
91 100
126 40.2 11.4 45.4

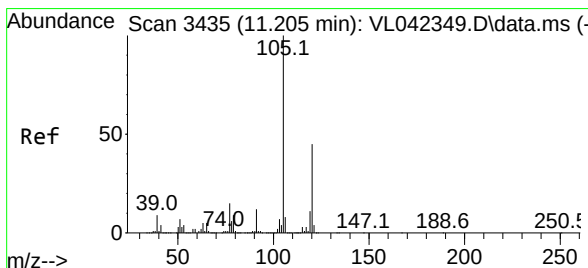
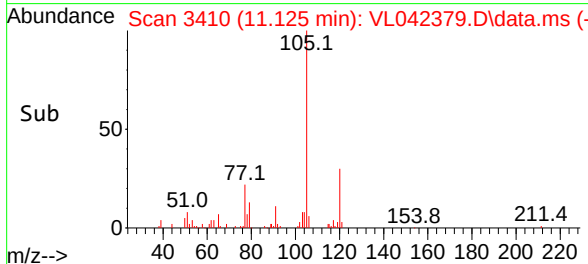
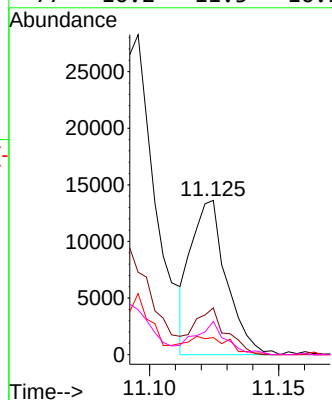
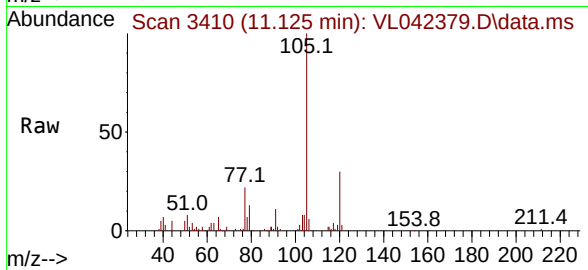




#72
4-Ethyltoluene
Concen: 0.298 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.000 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

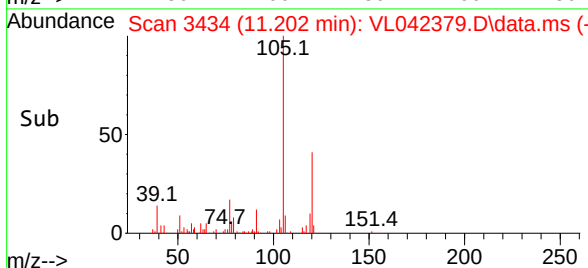
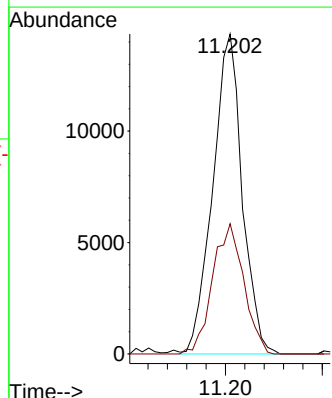
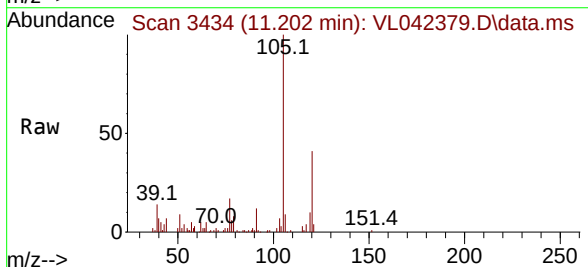
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL

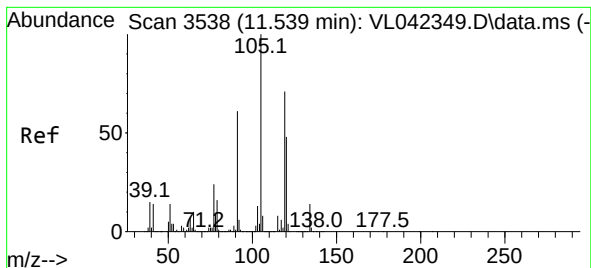
Tgt Ion:	105	Resp:	12986
Ion Ratio	Lower	Upper	
105	100		
120	0.0	23.2	34.8#
91	0.0	10.4	15.6#
77	16.2	11.3	16.9



#73
1,3,5-Trimethylbenzene
Concen: 0.394 ppbv
RT: 11.202 min Scan# 3434
Delta R.T. -0.003 min
Lab File: VL042379.D
Acq: 18 Apr 2025 03:03

Tgt Ion:	105	Resp:	15149
Ion Ratio	Lower	Upper	
105	100		
120	40.7	35.6	53.4





#74

1,2,4-Trimethylbenzene

Concen: 1.122 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. -0.003 min

Lab File: VL042379.D

Acq: 18 Apr 2025 03:03

Instrument :

MSVOA_L

ClientSampleId :

IA-B2-5-03312025DL

Tgt Ion:105 Resp: 50354

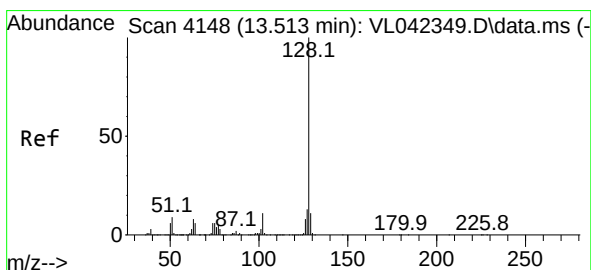
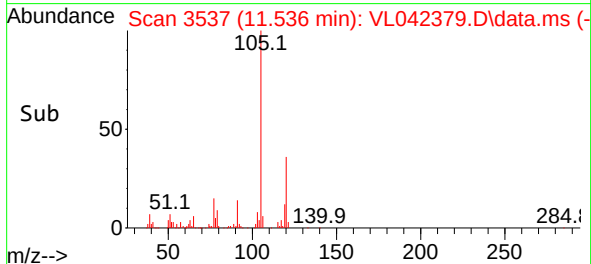
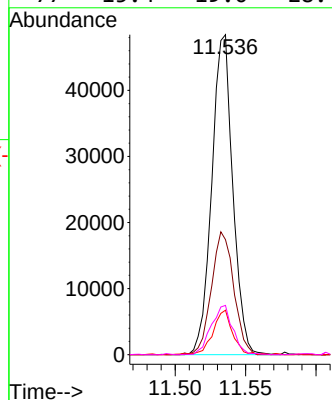
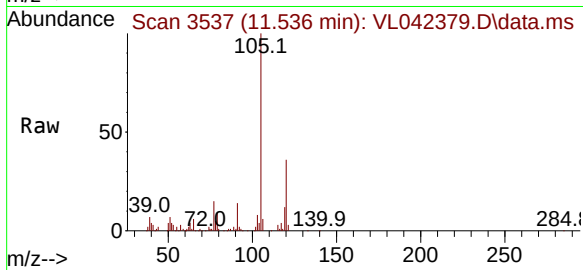
Ion Ratio Lower Upper

105 100

120 35.9 38.1 57.1#

91 13.7 48.8 73.2#

77 15.4 19.0 28.4#



#79

Naphthalene

Concen: 0.069 ppbv

RT: 13.513 min Scan# 4148

Delta R.T. 0.000 min

Lab File: VL042379.D

Acq: 18 Apr 2025 03:03

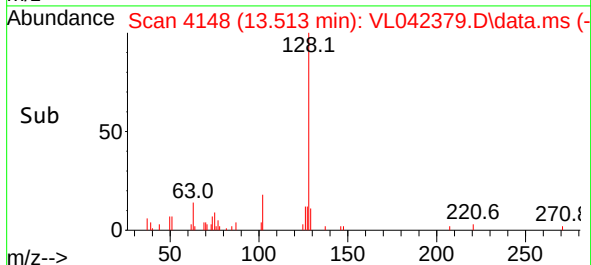
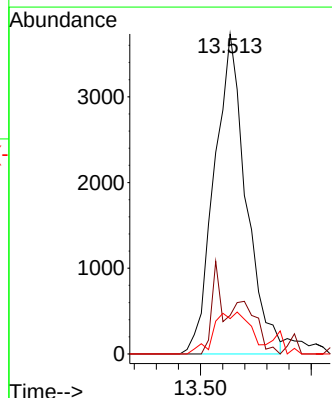
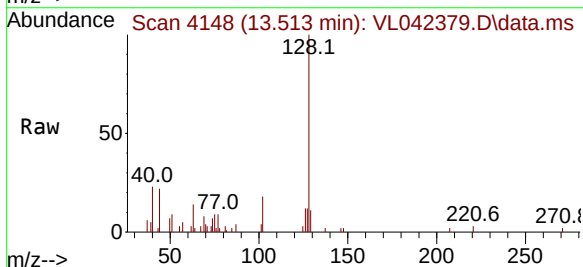
Tgt Ion:128 Resp: 3721

Ion Ratio Lower Upper

128 100

127 12.0 10.6 15.8

129 11.1 8.6 12.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042380.D
 Acq On : 18 Apr 2025 03:34
 Operator : SY/MD
 Sample : Q1726-05DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-1-03312025DL

Quant Time: Apr 18 04:41:49 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)

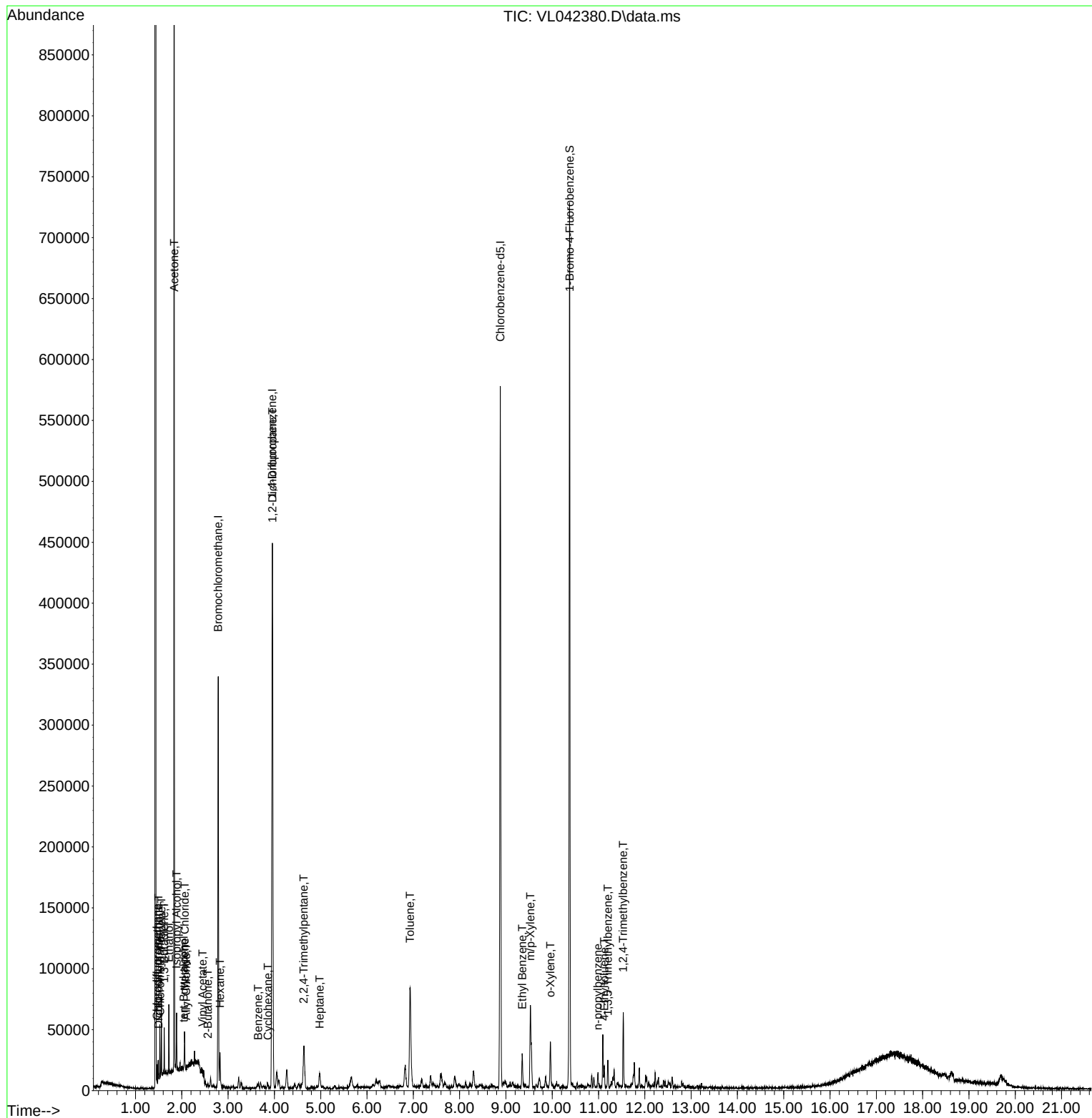
Internal Standards						
1) Bromochloromethane	2.787	49	90034	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	252514	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	219443	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	187830	10.416	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 104.200%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	960	0.060	ppbv #	76
3) Chlorodifluoromethane	1.466	51	4487	0.296	ppbv #	61
4) Chloromethane	1.531	50	424	0.067	ppbv #	57
9) Propene	1.557	41	6843	0.992	ppbv	89
10) Heptane	4.978	43	2751	0.142	ppbv #	22
13) Ethanol	1.722	45	19984	18.226	ppbv	76
15) Acetone	1.835	43	563713	38.247	ppbv	98
16) 1,3-Butadiene	1.622	39	2227	0.316	ppbv #	40
17) tert-Butyl alcohol	2.043	59	1182	0.065	ppbv #	1
19) Isopropyl Alcohol	1.887	45	19270	2.354	ppbv #	1
20) Methylene Chloride	2.062	84	4260	0.738	ppbv	96
21) Allyl Chloride	2.094	41	364	0.036	ppbv #	34
23) Vinyl Acetate	2.450	43	1426	0.239	ppbv #	1
26) Hexane	2.823	57	6487	0.441	ppbv #	37
30) Cyclohexane	3.858	84	614	0.052	ppbv #	1
34) 2-Butanone	2.564	43	1119	0.056	ppbv #	81
36) Benzene	3.651	78	1309	0.048	ppbv #	87
39) 1,2-Dichloropropane	3.959	63	68357	6.735	ppbv #	22
44) 2,2,4-Trimethylpentane	4.635	57	29451	0.626	ppbv #	90
53) Toluene	6.927	91	57048	1.745	ppbv	97
58) Ethyl Benzene	9.351	91	14493	0.333	ppbv	92
59) m/p-Xylene	9.529	91	41899	1.196	ppbv	98
60) o-Xylene	9.959	91	16128	0.457	ppbv	99
64) n-propylbenzene	10.982	120	462	0.035	ppbv	68
72) 4-Ethyltoluene	11.125	105	7252	0.168	ppbv #	63
73) 1,3,5-Trimethylbenzene	11.202	105	7522	0.198	ppbv	98
74) 1,2,4-Trimethylbenzene	11.532	105	21924	0.493	ppbv #	63

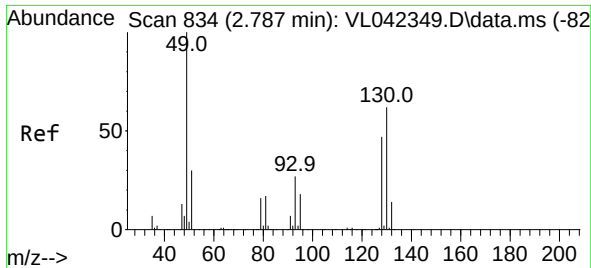
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042380.D
Acq On : 18 Apr 2025 03:34
Operator : SY/MD
Sample : Q1726-05DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025DL

Quant Time: Apr 18 04:41:49 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

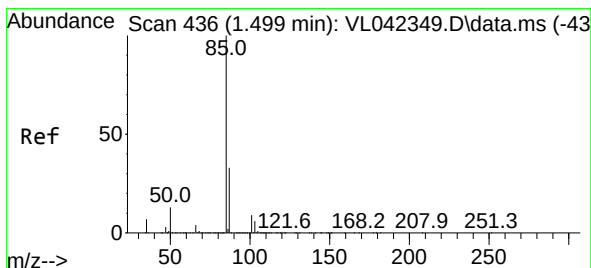
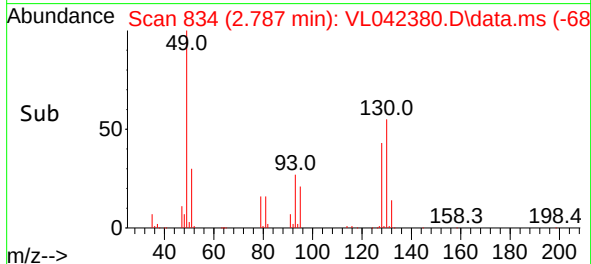
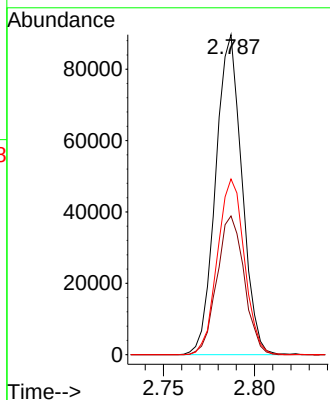
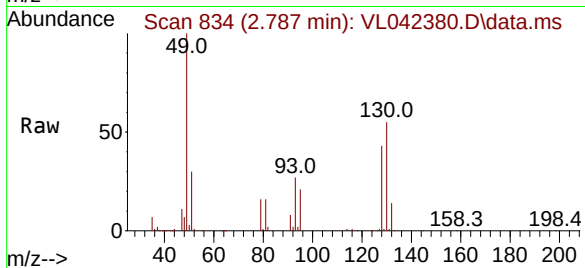




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.787 min Scan# 834
 Delta R.T. 0.000 min
 Lab File: VL042380.D
 Acq: 18 Apr 2025 03:34

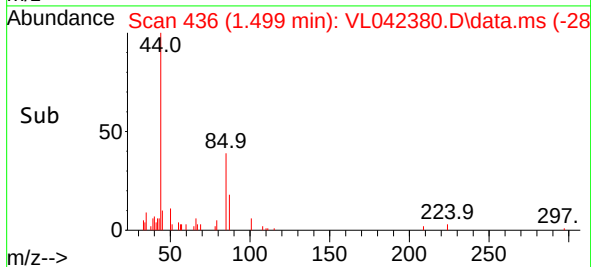
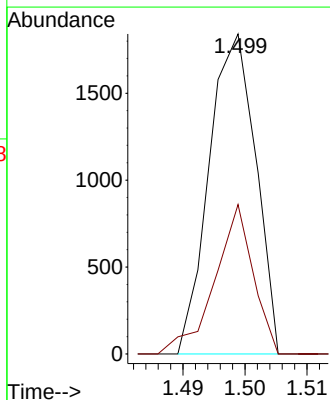
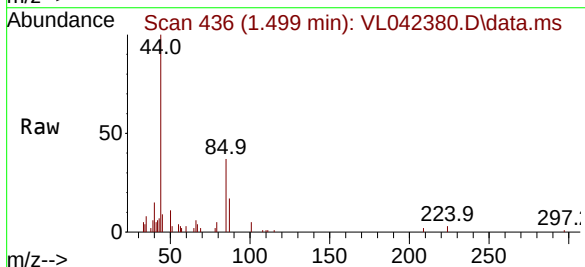
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-1-03312025DL

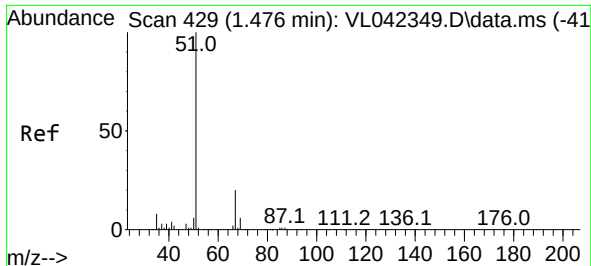
Tgt Ion: 49 Resp: 90034
 Ion Ratio Lower Upper
 49 100
 128 44.9 22.8 68.4
 130 56.3 29.3 88.0



#2
 Dichlorodifluoromethane
 Concen: 0.060 ppbv
 RT: 1.499 min Scan# 436
 Delta R.T. 0.000 min
 Lab File: VL042380.D
 Acq: 18 Apr 2025 03:34

Tgt Ion: 85 Resp: 960
 Ion Ratio Lower Upper
 85 100
 87 46.7 26.6 39.8#

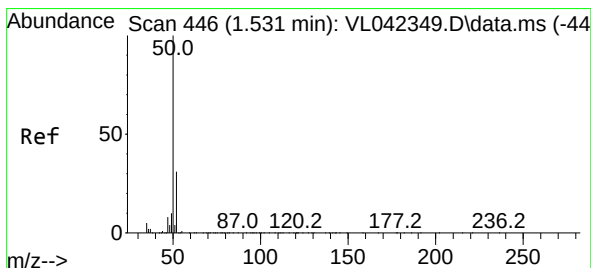
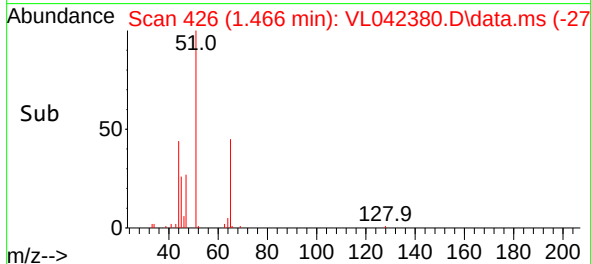
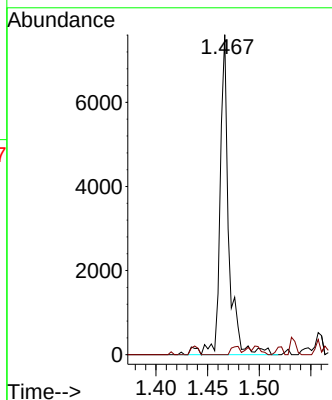
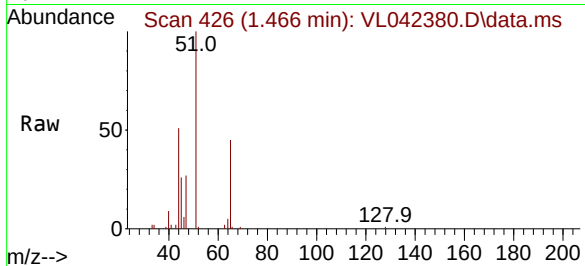




#3
Chlorodifluoromethane
Concen: 0.296 ppbv
RT: 1.466 min Scan# 41
Delta R.T. -0.010 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

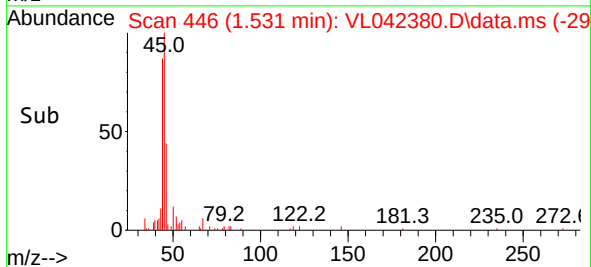
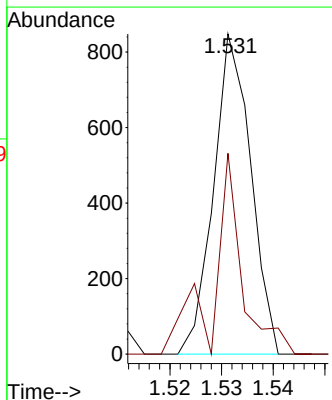
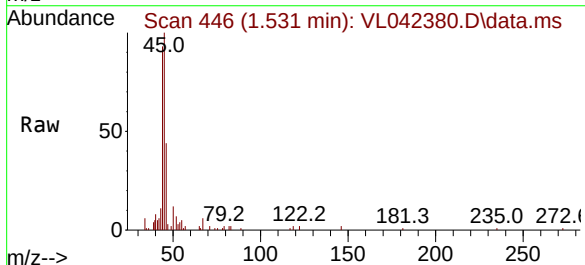
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025DL

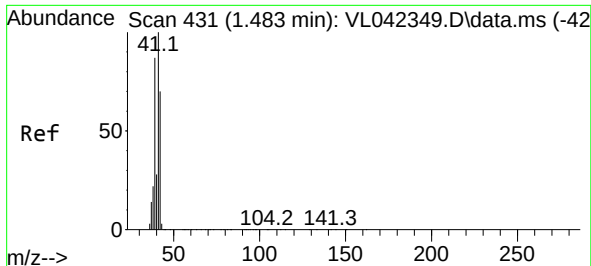
Tgt Ion: 51 Resp: 4487
Ion Ratio Lower Upper
51 100
67 2.3 16.2 24.4#



#4
Chloromethane
Concen: 0.067 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

Tgt Ion: 50 Resp: 424
Ion Ratio Lower Upper
50 100
52 54.6 24.7 37.1#





#9

Propene

Concen: 0.992 ppbv

RT: 1.557 min Scan# 41

Delta R.T. 0.075 min

Lab File: VL042380.D

Acq: 18 Apr 2025 03:34

Instrument :

MSVOA_L

ClientSampleId :

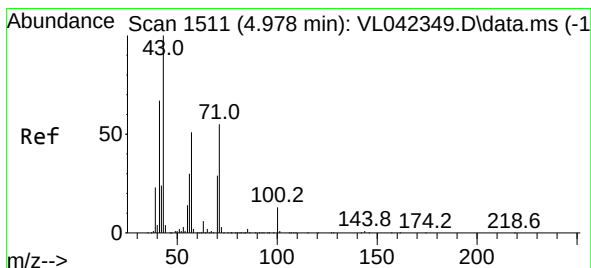
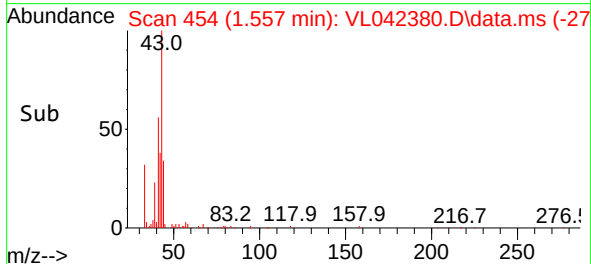
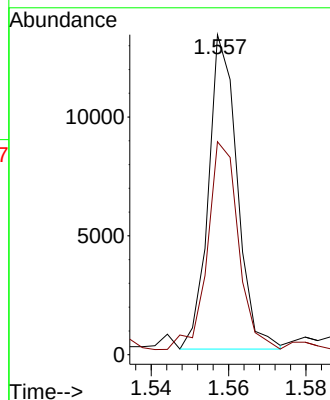
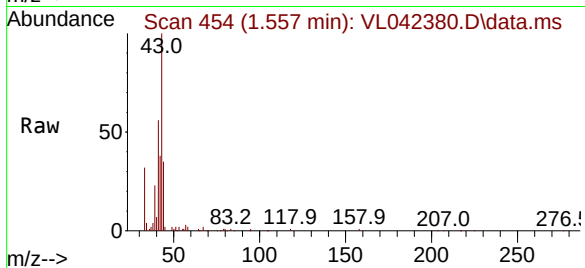
IA-B2-1-03312025DL

Tgt Ion: 41 Resp: 6843

Ion Ratio Lower Upper

41 100

42 79.1 56.2 84.4



#10

Heptane

Concen: 0.142 ppbv

RT: 4.978 min Scan# 1511

Delta R.T. 0.000 min

Lab File: VL042380.D

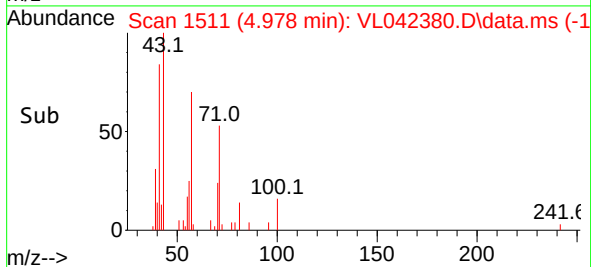
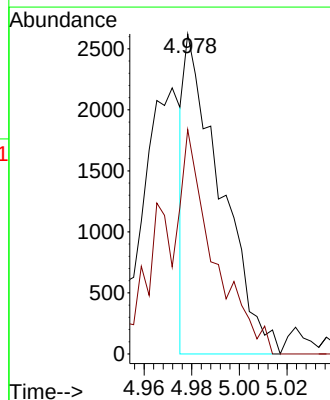
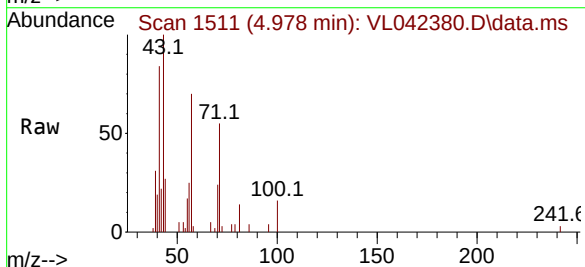
Acq: 18 Apr 2025 03:34

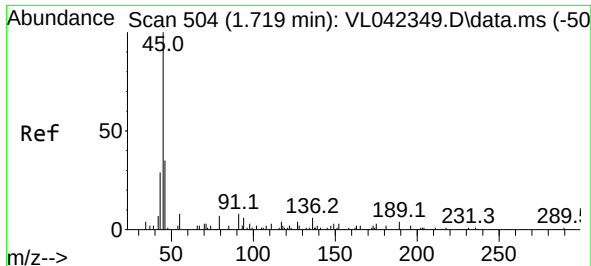
Tgt Ion: 43 Resp: 2751

Ion Ratio Lower Upper

43 100

57 103.3 39.9 59.9#

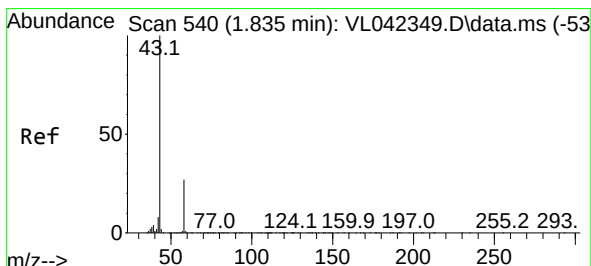
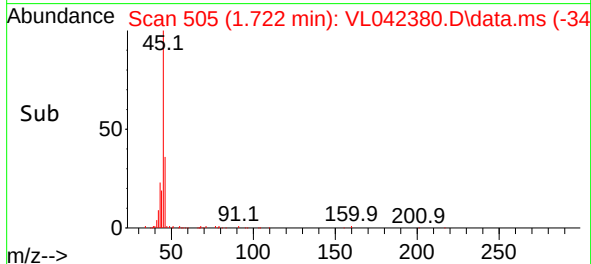
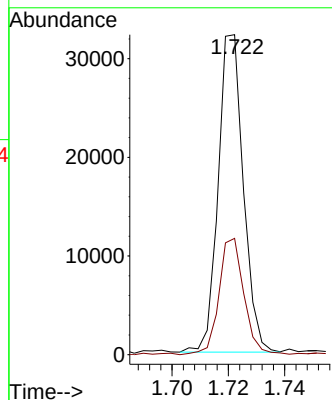
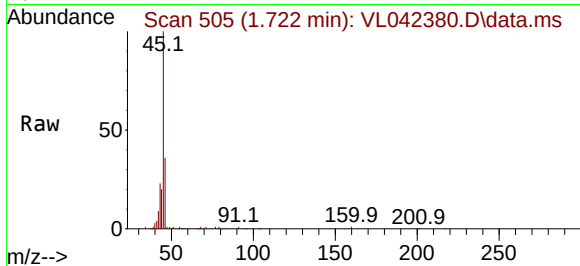




#13
 Ethanol
 Concen: 18.226 ppbv
 RT: 1.722 min Scan# 504
 Delta R.T. 0.003 min
 Lab File: VL042380.D
 Acq: 18 Apr 2025 03:34

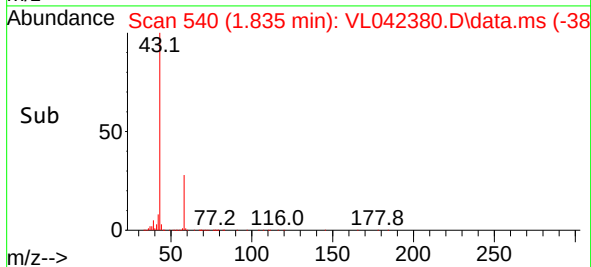
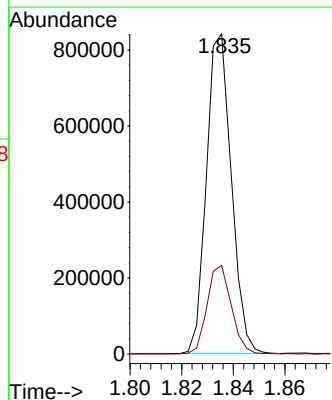
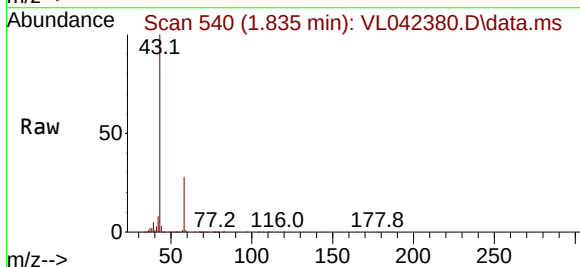
Instrument :
 MSVOA_1
 ClientSampleId :
 IA-B2-1-03312025DL

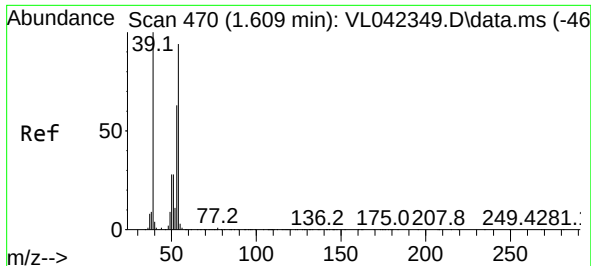
Tgt Ion: 45 Resp: 19984
 Ion Ratio Lower Upper
 45 100
 46 37.5 21.9 87.7



#15
 Acetone
 Concen: 38.247 ppbv
 RT: 1.835 min Scan# 540
 Delta R.T. 0.000 min
 Lab File: VL042380.D
 Acq: 18 Apr 2025 03:34

Tgt Ion: 43 Resp: 563713
 Ion Ratio Lower Upper
 43 100
 58 27.0 22.4 33.6

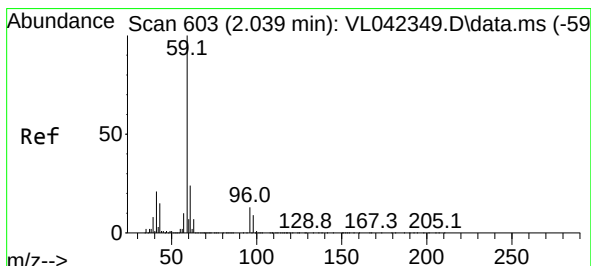
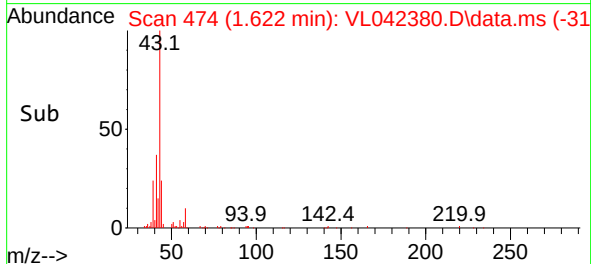
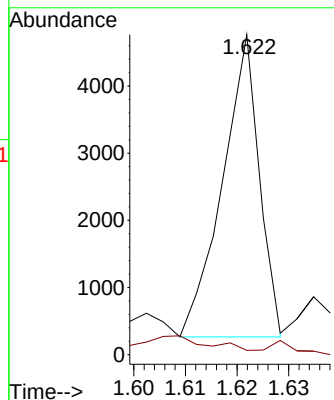
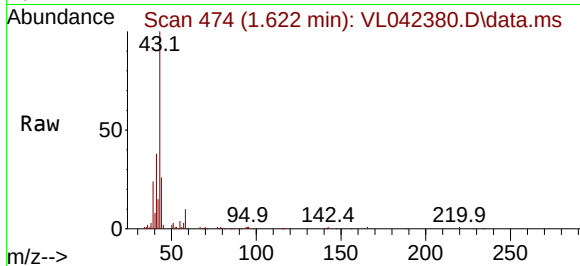




#16
1,3-Butadiene
Concen: 0.316 ppbv
RT: 1.622 min Scan# 41
Delta R.T. 0.013 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

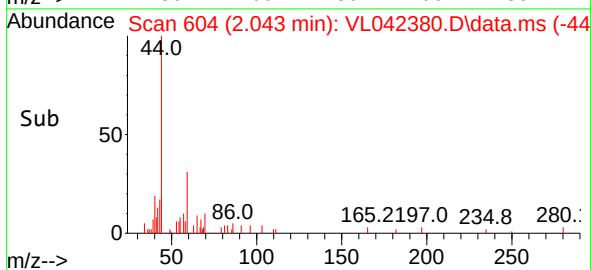
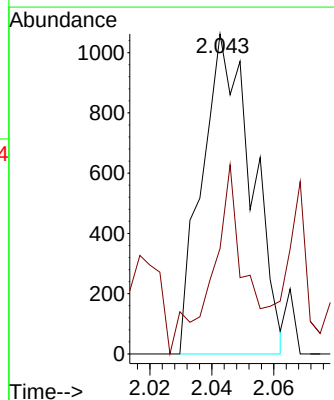
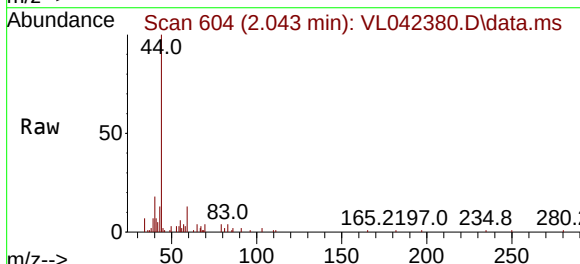
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025DL

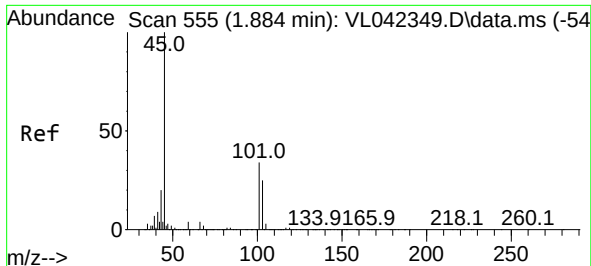
Tgt Ion: 39 Resp: 2227
Ion Ratio Lower Upper
39 100
54 27.4 64.9 97.3#



#17
tert-Butyl alcohol
Concen: 0.065 ppbv
RT: 2.043 min Scan# 604
Delta R.T. 0.003 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

Tgt Ion: 59 Resp: 1182
Ion Ratio Lower Upper
59 100
57 59.3 8.7 13.1#

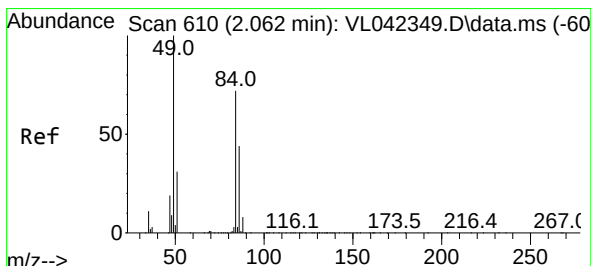
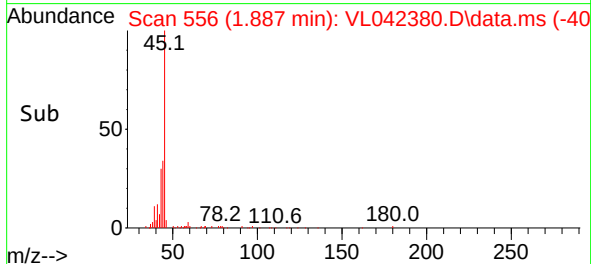
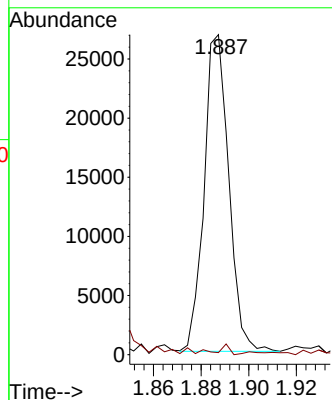
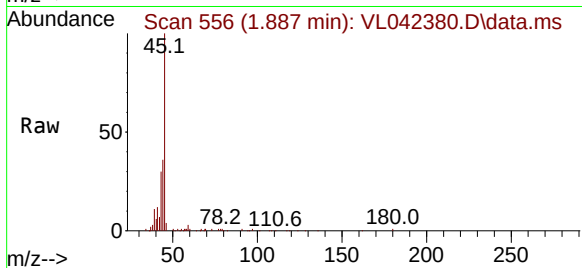




#19
Isopropyl Alcohol
Concen: 2.354 ppbv
RT: 1.887 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

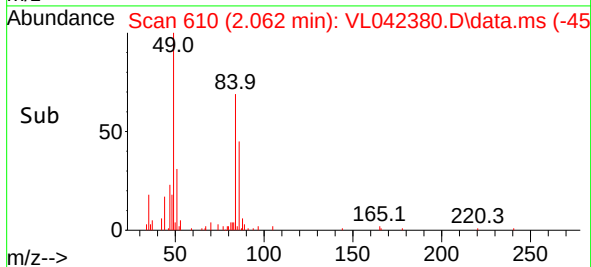
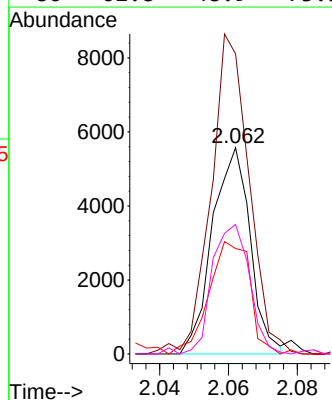
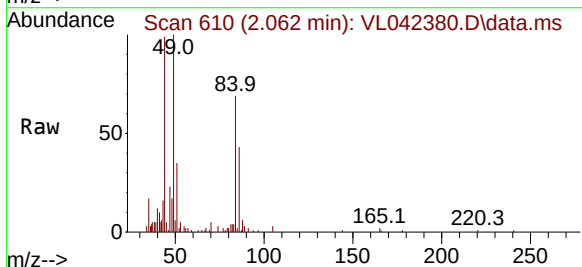
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025DL

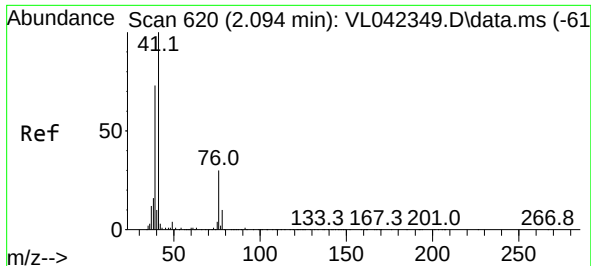
Tgt Ion: 45 Resp: 19270
Ion Ratio Lower Upper
45 100
58 790.9 34.5 51.7#



#20
Methylene Chloride
Concen: 0.738 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

Tgt Ion: 84 Resp: 4260
Ion Ratio Lower Upper
84 100
49 143.5 111.6 167.4
51 51.2 35.1 52.7
86 62.8 48.9 73.3

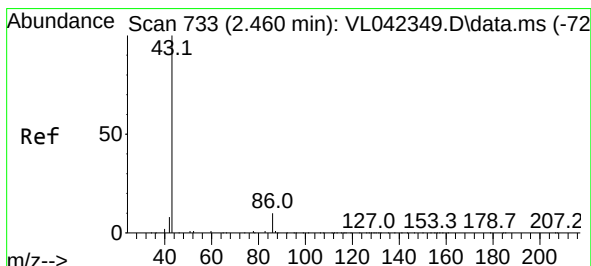
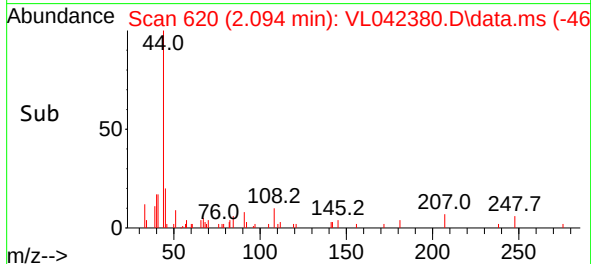
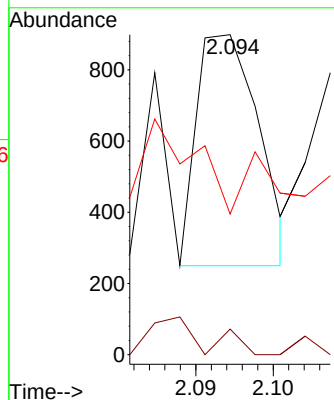
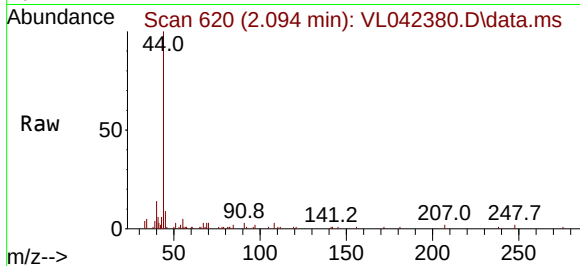




#21
 Allyl Chloride
 Concen: 0.036 ppbv
 RT: 2.094 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: VL042380.D
 Acq: 18 Apr 2025 03:34

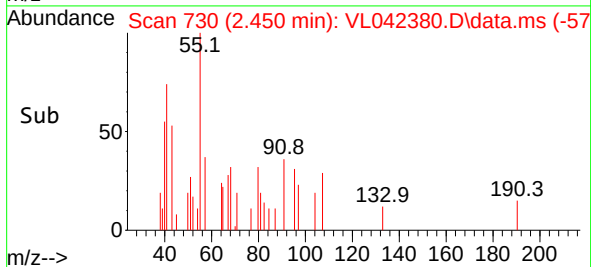
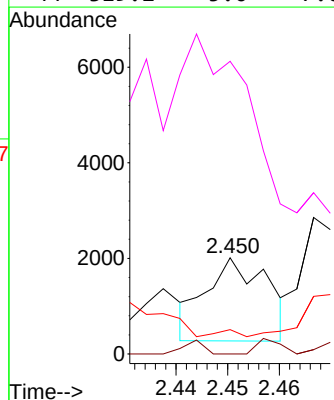
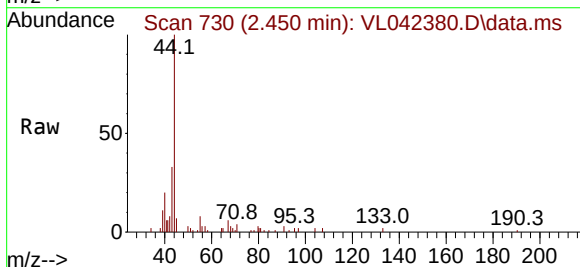
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-1-03312025DL

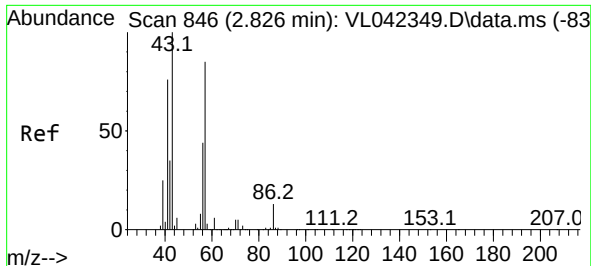
Tgt Ion: 41 Resp: 364
 Ion Ratio Lower Upper
 41 100
 76 24.7 24.8 37.2#
 39 0.0 60.6 90.8#



#23
 Vinyl Acetate
 Concen: 0.239 ppbv
 RT: 2.450 min Scan# 730
 Delta R.T. -0.010 min
 Lab File: VL042380.D
 Acq: 18 Apr 2025 03:34

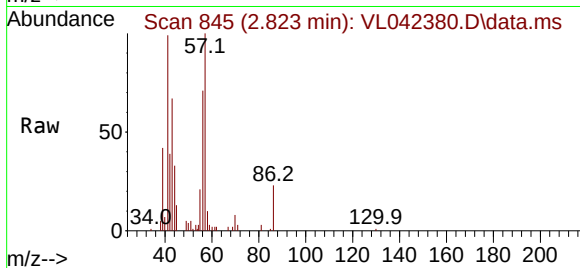
Tgt Ion: 43 Resp: 1426
 Ion Ratio Lower Upper
 43 100
 86 0.0 6.5 9.7#
 42 3.6 7.8 11.8#
 44 319.2 5.0 7.6#



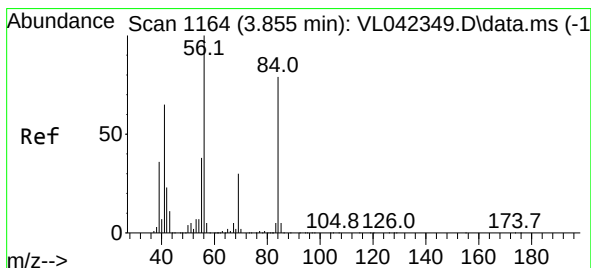
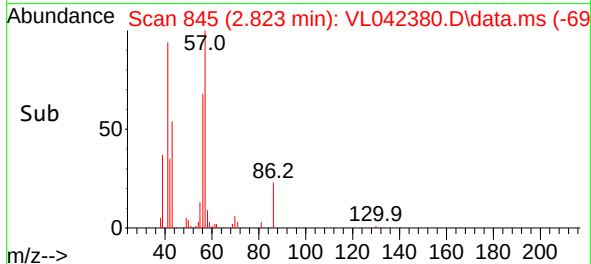
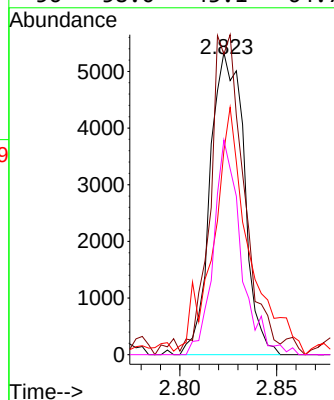


#26
Hexane
Concen: 0.441 ppbv
RT: 2.823 min Scan# 846
Delta R.T. -0.003 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025DL

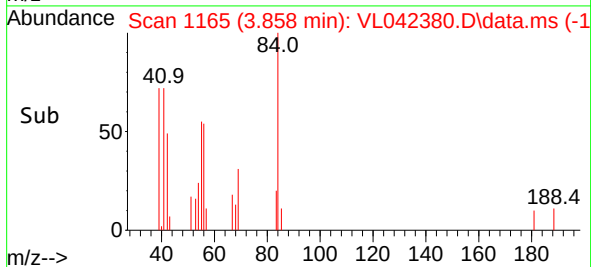
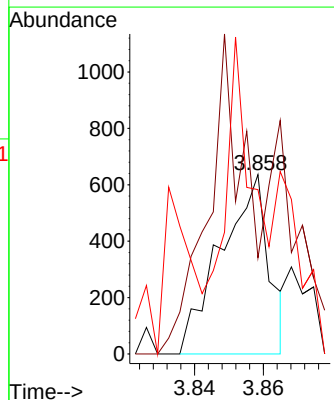
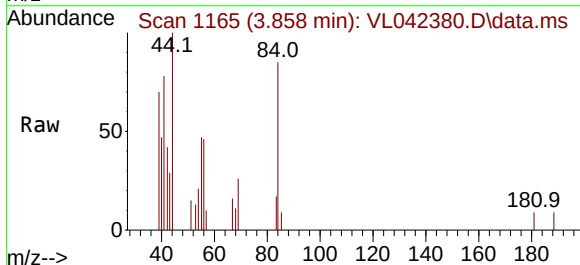


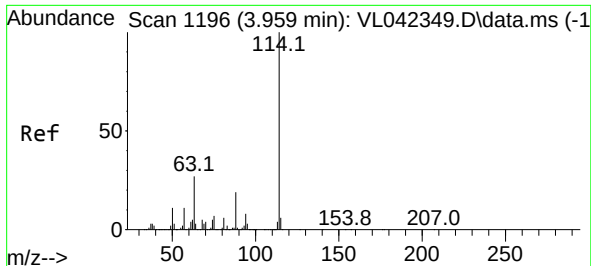
Tgt Ion:	57	Resp:	6487
Ion Ratio	100	Lower	Upper
57	100		
41	103.5	77.9	116.9
43	88.6	208.4	312.6#
56	58.0	43.1	64.7



#30
Cyclohexane
Concen: 0.052 ppbv
RT: 3.858 min Scan# 1165
Delta R.T. 0.003 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

Tgt Ion:	84	Resp:	614
Ion Ratio	100	Lower	Upper
84	100		
56	230.9	101.0	151.4#
41	232.4	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: VL042380.D

Acq: 18 Apr 2025 03:34

Instrument :

MSVOA_L

ClientSampleId :

IA-B2-1-03312025DL

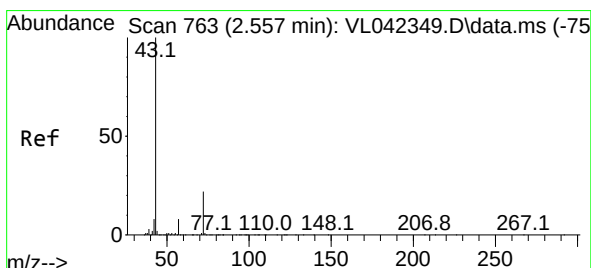
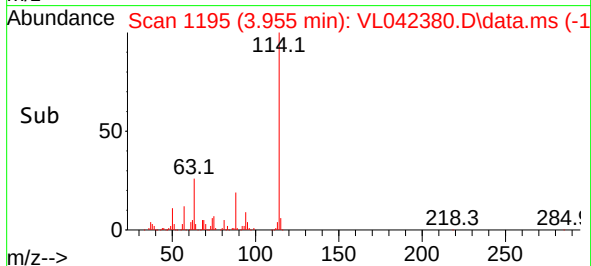
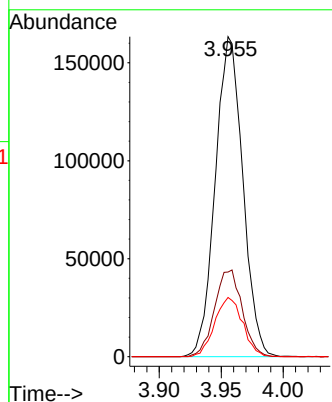
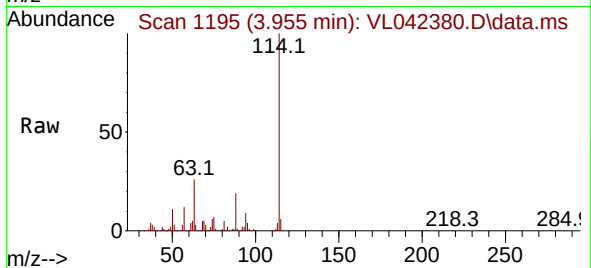
Tgt Ion:114 Resp: 252514

Ion Ratio Lower Upper

114 100

63 27.2 21.8 32.6

88 18.8 15.5 23.3



#34

2-Butanone

Concen: 0.056 ppbv

RT: 2.564 min Scan# 765

Delta R.T. 0.007 min

Lab File: VL042380.D

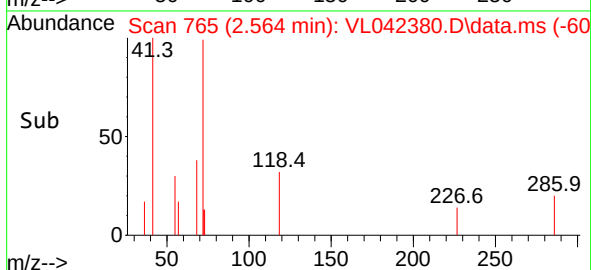
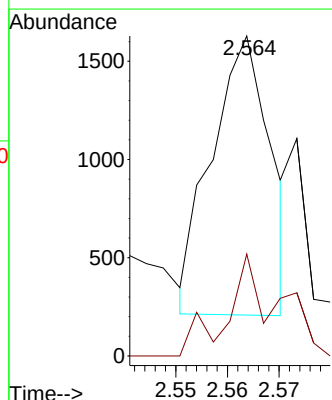
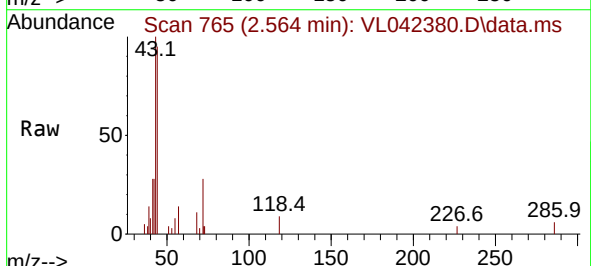
Acq: 18 Apr 2025 03:34

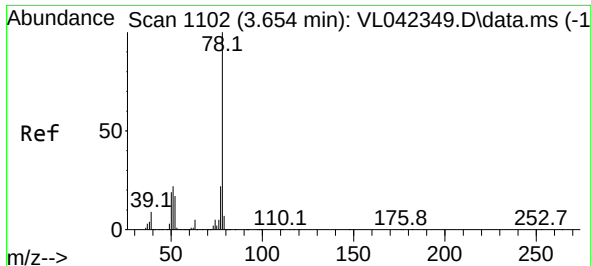
Tgt Ion: 43 Resp: 1119

Ion Ratio Lower Upper

43 100

72 31.9 18.2 27.2#

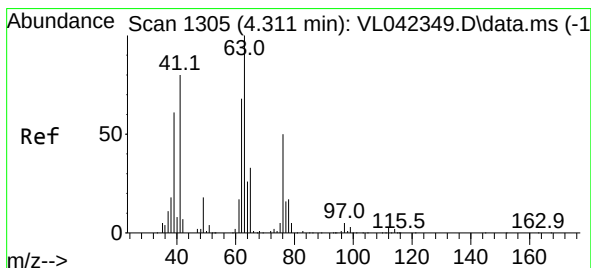
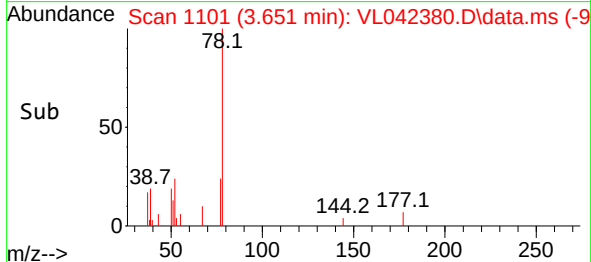
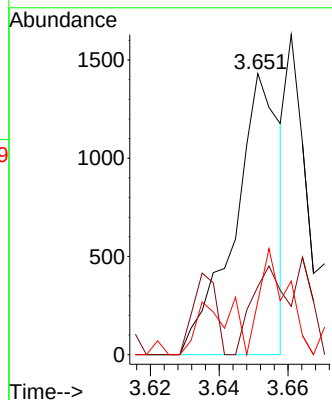
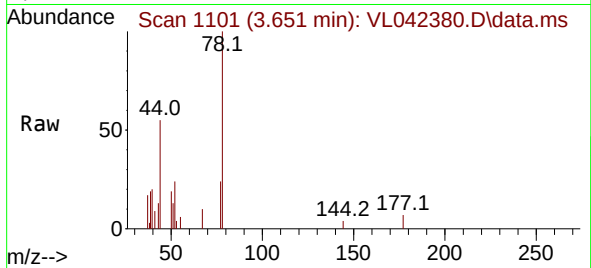




#36
Benzene
Concen: 0.048 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.003 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

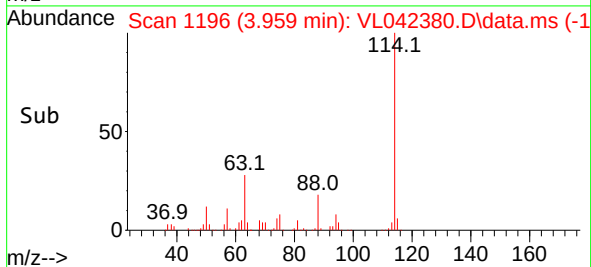
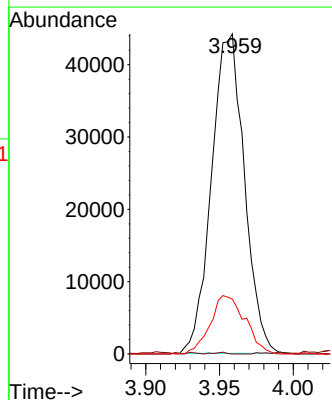
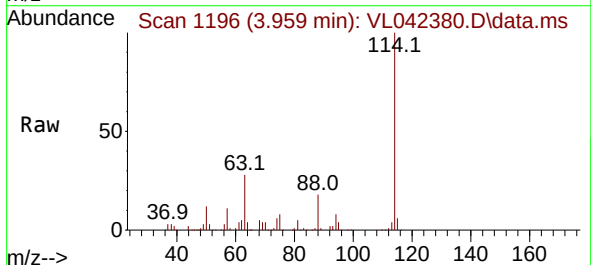
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025DL

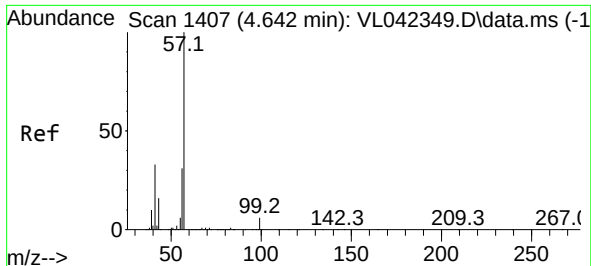
Tgt Ion: 78 Resp: 1309
Ion Ratio Lower Upper
78 100
77 24.2 17.4 26.0
50 9.5 15.5 23.3#



#39
1,2-Dichloropropane
Concen: 6.735 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. -0.353 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

Tgt Ion: 63 Resp: 68357
Ion Ratio Lower Upper
63 100
41 0.0 64.2 96.2#
62 17.2 54.3 81.5#

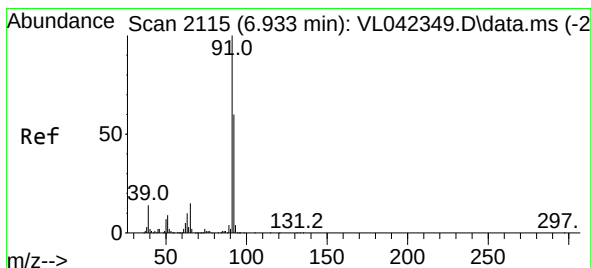
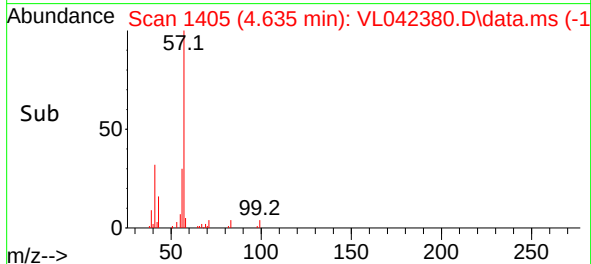
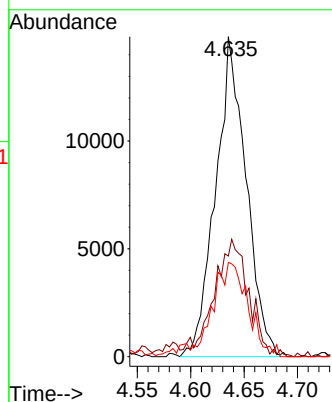
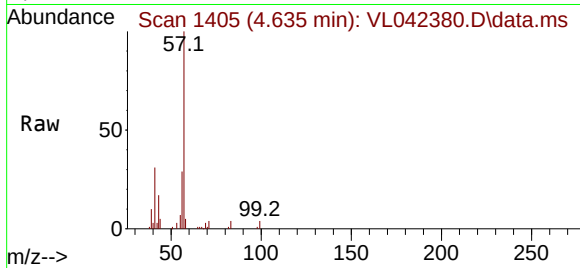




#44
2,2,4-Trimethylpentane
Concen: 0.626 ppbv
RT: 4.635 min Scan# 1405
Delta R.T. -0.006 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

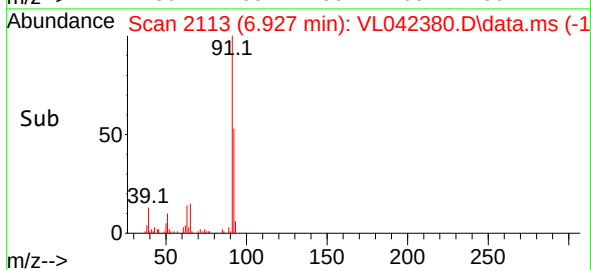
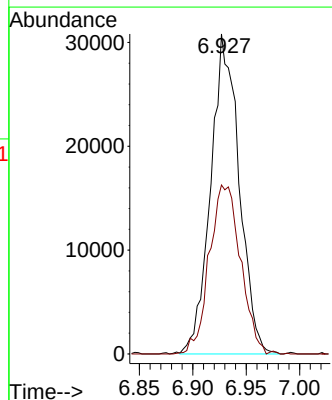
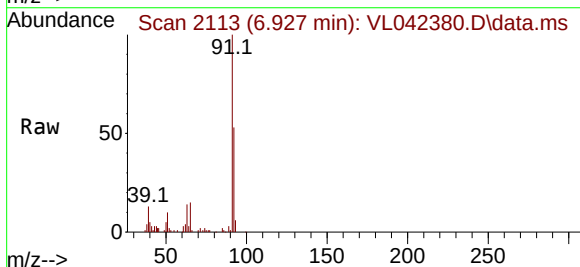
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025DL

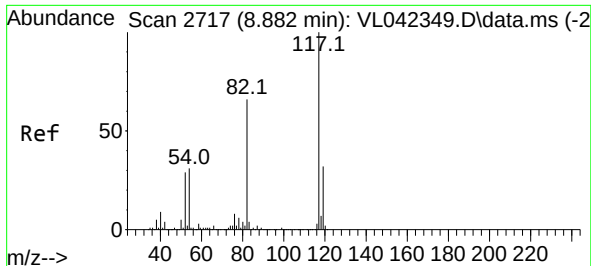
Tgt Ion	Ratio	Lower	Upper
57	100		
41	42.2	27.2	40.8
56	35.5	25.7	38.5



#53
Toluene
Concen: 1.745 ppbv
RT: 6.927 min Scan# 2113
Delta R.T. -0.006 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

Tgt Ion	Ratio	Lower	Upper
91	100		
92	58.1	48.2	72.4

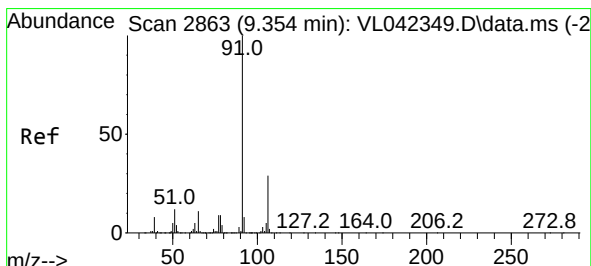
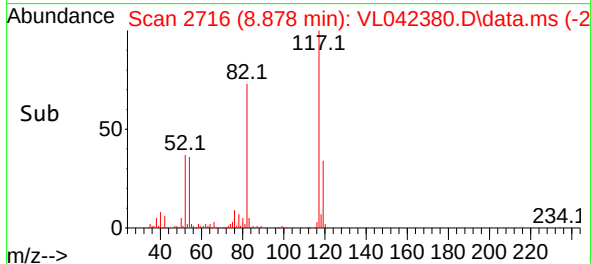
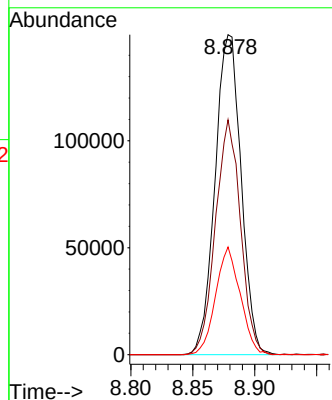
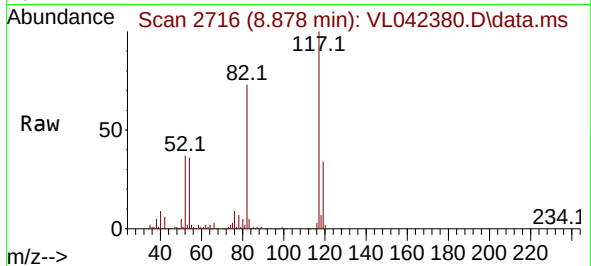




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

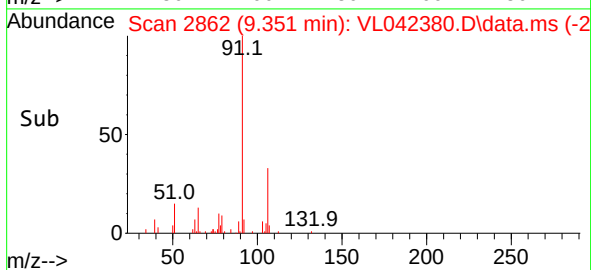
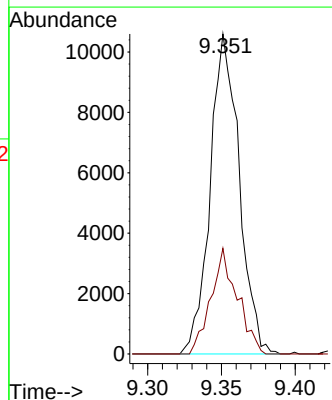
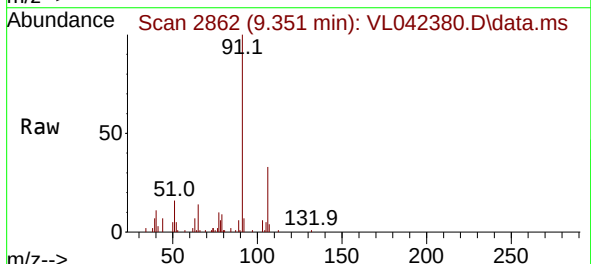
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025DL

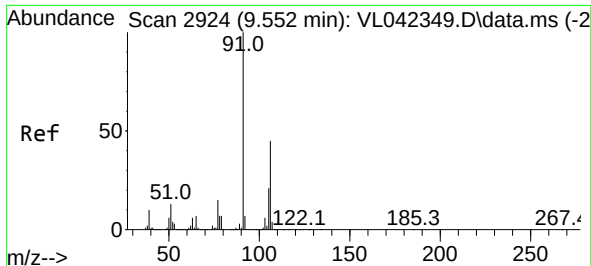
Tgt Ion:117 Resp: 219443
Ion Ratio Lower Upper
117 100
82 70.4 57.8 86.6
119 31.8 25.2 37.8



#58
Ethyl Benzene
Concen: 0.333 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.003 min
Lab File: VL042380.D
Acq: 18 Apr 2025 03:34

Tgt Ion: 91 Resp: 14493
Ion Ratio Lower Upper
91 100
106 33.0 23.0 34.4





#59

m/p-Xylene

Concen: 1.196 ppbv

RT: 9.529 min Scan# 2917

Delta R.T. -0.023 min

Lab File: VL042380.D

Acq: 18 Apr 2025 03:34

Instrument :

MSVOA_L

ClientSampleId :

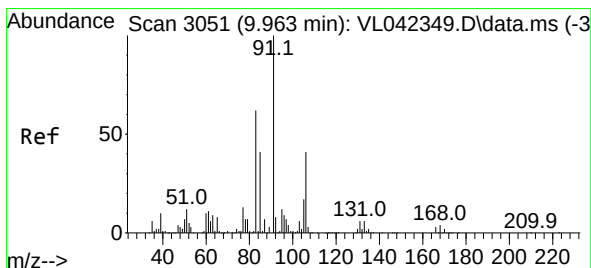
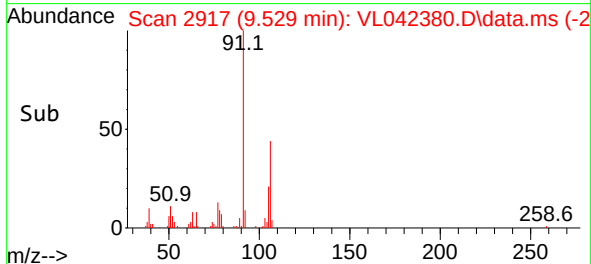
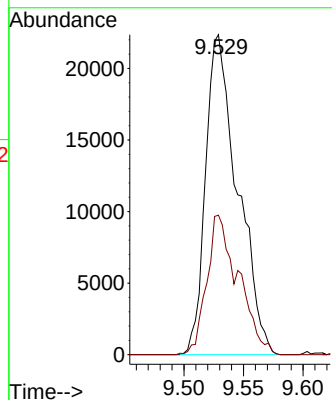
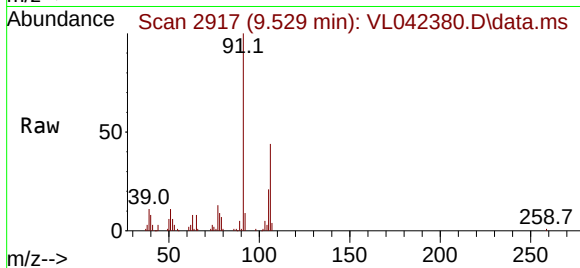
LA-B2-1-03312025DL

Tgt Ion: 91 Resp: 41899

Ion Ratio Lower Upper

91 100

106 43.0 35.4 53.2



#60

o-Xylene

Concen: 0.457 ppbv

RT: 9.959 min Scan# 3050

Delta R.T. -0.003 min

Lab File: VL042380.D

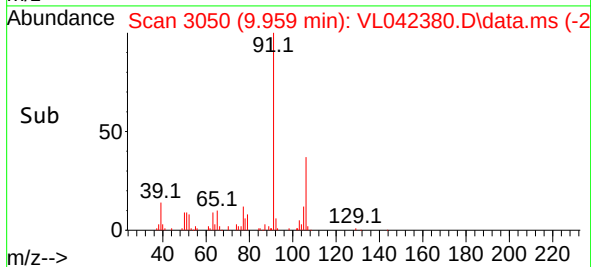
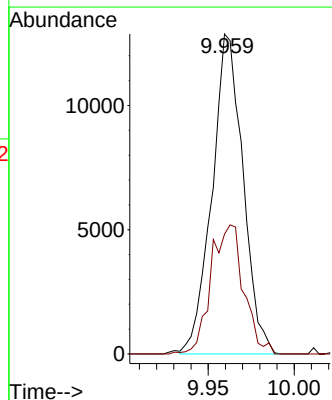
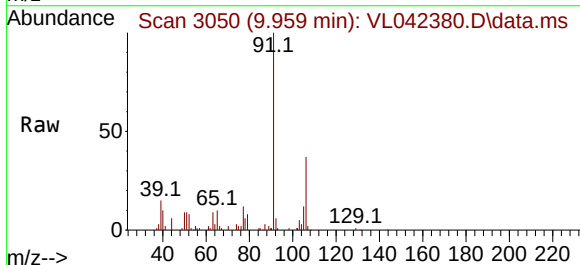
Acq: 18 Apr 2025 03:34

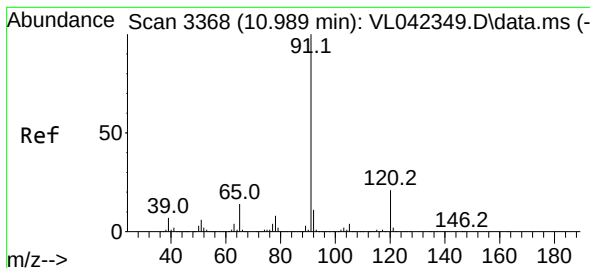
Tgt Ion: 91 Resp: 16128

Ion Ratio Lower Upper

91 100

106 42.8 21.1 63.4





#64

n-propylbenzene

Concen: 0.035 ppbv

RT: 10.982 min Scan# 3178

Delta R.T. -0.006 min

Lab File: VL042380.D

Acq: 18 Apr 2025 03:34

Instrument :

MSVOA_L

ClientSampleId :

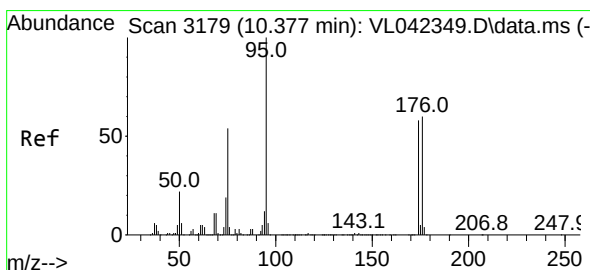
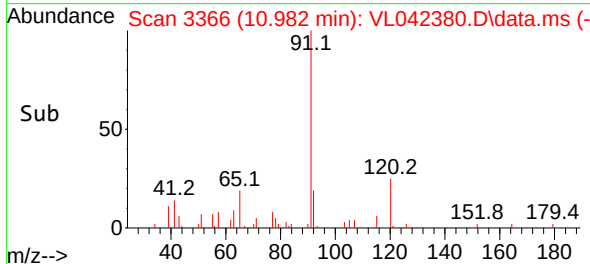
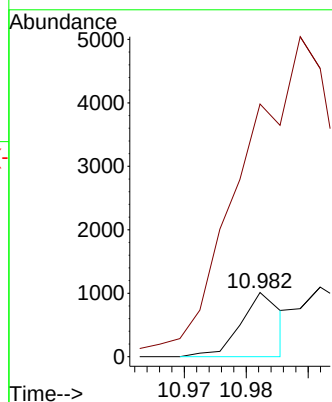
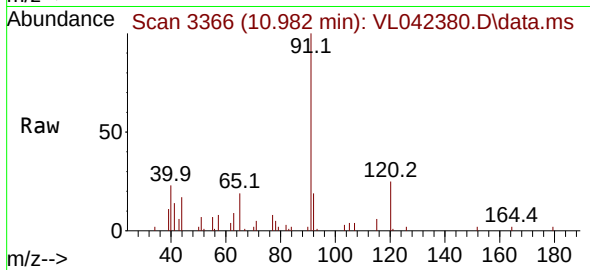
IA-B2-1-03312025DL

Tgt Ion:120 Resp: 462

Ion Ratio Lower Upper

120 100

91 404.5 392.4 588.6



#68

1-Bromo-4-Fluorobenzene

Concen: 10.416 ppbv

RT: 10.374 min Scan# 3178

Delta R.T. -0.003 min

Lab File: VL042380.D

Acq: 18 Apr 2025 03:34

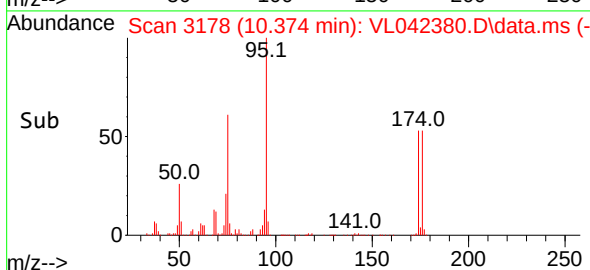
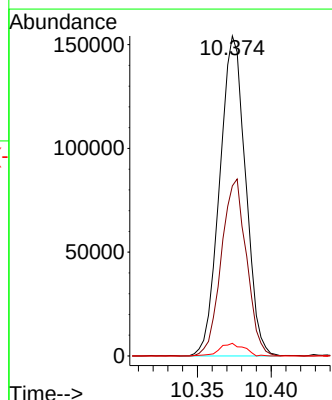
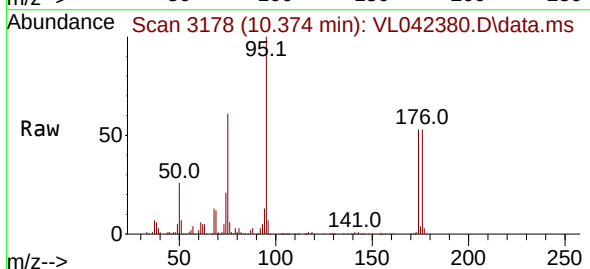
Tgt Ion: 95 Resp: 187830

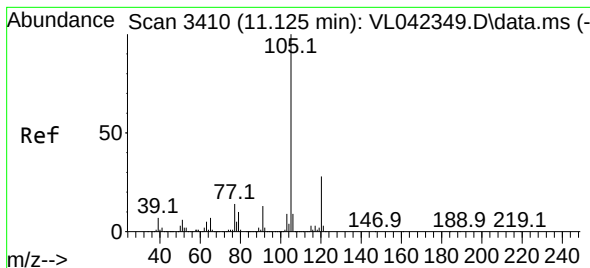
Ion Ratio Lower Upper

95 100

174 53.9 48.5 72.7

175 3.8 3.7 5.5





#72

4-Ethyltoluene

Concen: 0.168 ppbv

RT: 11.125 min Scan# 3410

Delta R.T. 0.000 min

Lab File: VL042380.D

Acq: 18 Apr 2025 03:34

Instrument :

MSVOA_L

ClientSampleId :

IA-B2-1-03312025DL

Tgt Ion:105 Resp: 7252

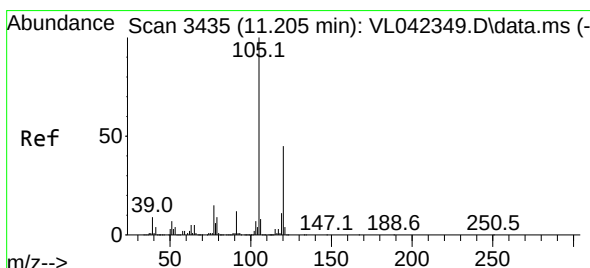
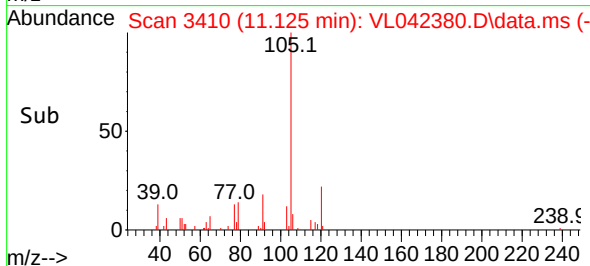
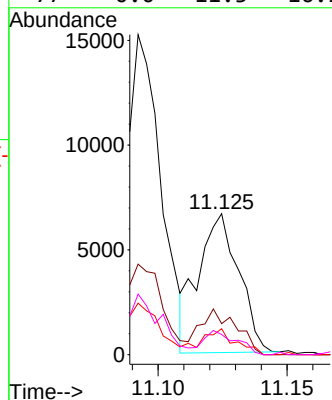
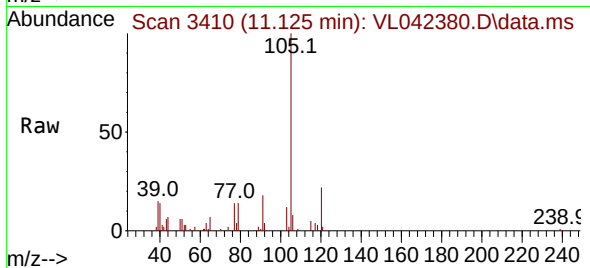
Ion Ratio Lower Upper

105 100

120 0.0 23.2 34.8#

91 13.8 10.4 15.6

77 0.0 11.3 16.9#



#73

1,3,5-Trimethylbenzene

Concen: 0.198 ppbv

RT: 11.202 min Scan# 3434

Delta R.T. -0.003 min

Lab File: VL042380.D

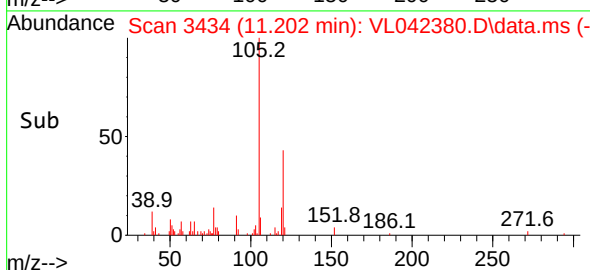
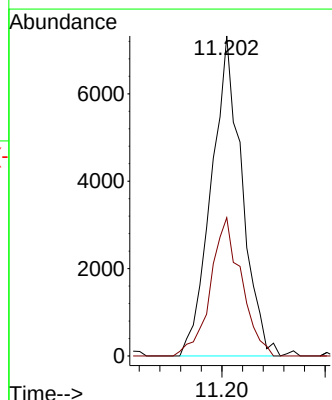
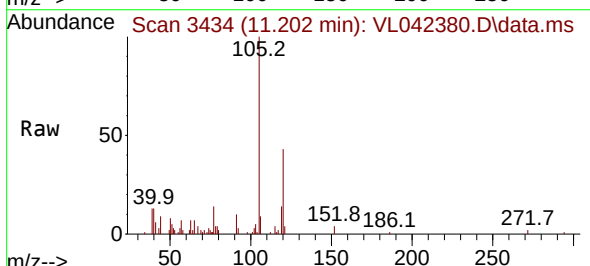
Acq: 18 Apr 2025 03:34

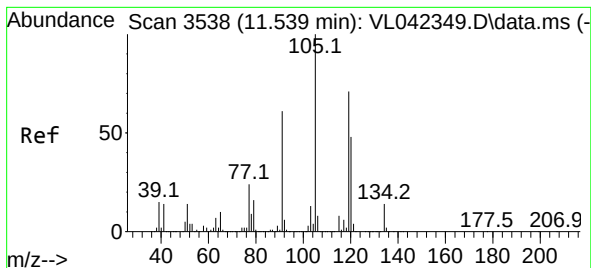
Tgt Ion:105 Resp: 7522

Ion Ratio Lower Upper

105 100

120 43.2 35.6 53.4





#74

1,2,4-Trimethylbenzene

Concen: 0.493 ppbv

RT: 11.532 min Scan# 31

Delta R.T. -0.006 min

Lab File: VL042380.D

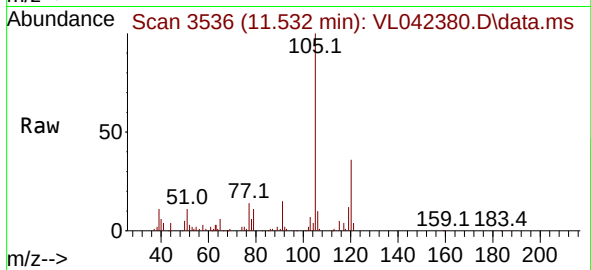
Acq: 18 Apr 2025 03:34

Instrument :

MSVOA_L

ClientSampleId :

IA-B2-1-03312025DL



Tgt Ion:105 Resp: 21924

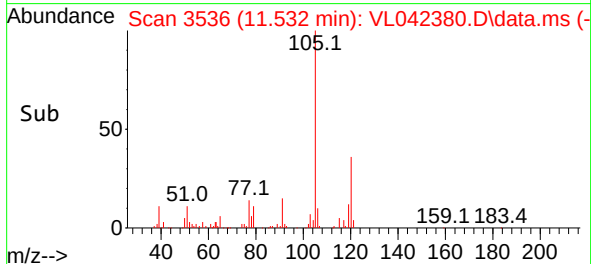
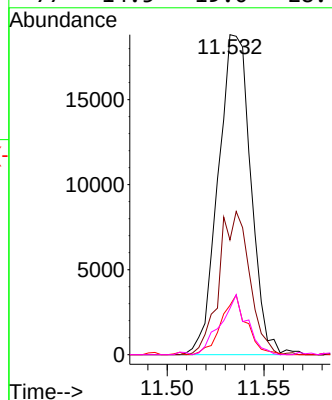
Ion Ratio Lower Upper

105 100

120 35.8 38.1 57.1#

91 15.0 48.8 73.2#

77 14.5 19.0 28.4#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
 Data File : VL042381.D
 Acq On : 18 Apr 2025 04:05
 Operator : SY/MD
 Sample : Q1726-06DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-3-03312025DL

Quant Time: Apr 18 04:42:23 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 02:14:00 2025
 Response via : Initial Calibration

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

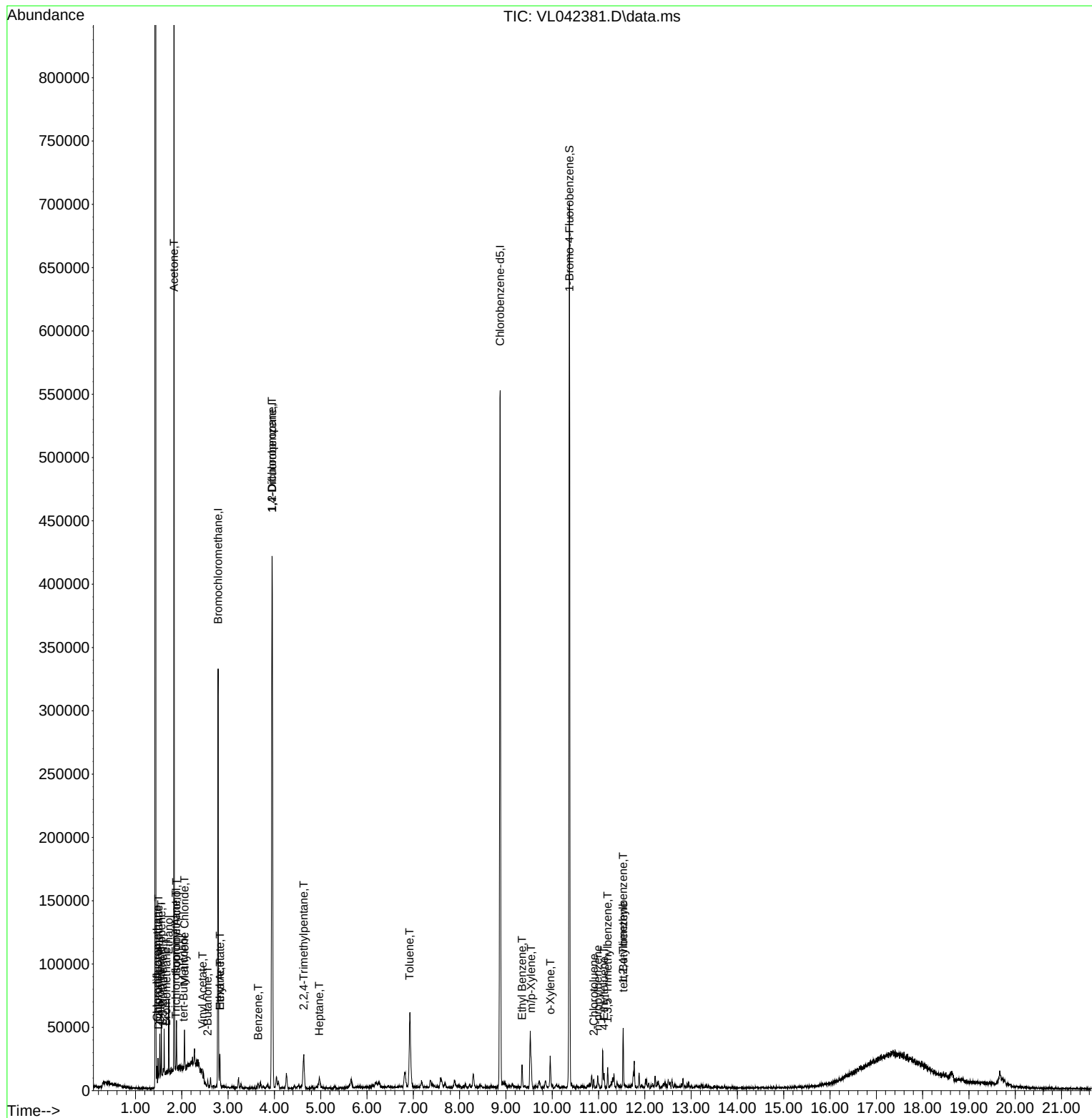
Internal Standards						
1) Bromochloromethane	2.784	49	87593	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	246915	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	211054	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	179405	10.344	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 103.400%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.495	85	894	0.058	ppbv	93
3) Chlorodifluoromethane	1.463	51	3346	0.227	ppbv #	66
4) Chloromethane	1.531	50	759	0.124	ppbv #	44
6) Bromomethane	1.670	94	191	0.067	ppbv #	38
9) Propene	1.557	41	4626	0.689	ppbv	91
10) Heptane	4.965	43	1342	0.071	ppbv #	1
11) Trichlorofluoromethane	1.874	101	451	0.031	ppbv	92
13) Ethanol	1.719	45	19745	18.510	ppbv	80
15) Acetone	1.832	43	477735	33.317	ppbv	98
16) 1,3-Butadiene	1.596	39	417	0.061	ppbv #	9
17) tert-Butyl alcohol	2.039	59	1001	0.056	ppbv #	1
19) Isopropyl Alcohol	1.884	45	17914	2.249	ppbv #	1
20) Methylene Chloride	2.059	84	4126	0.735	ppbv #	82
23) Vinyl Acetate	2.450	43	1889	0.325	ppbv #	1
25) Ethyl Acetate	2.822	43	5205	0.147	ppbv #	89
26) Hexane	2.822	57	5952	0.416	ppbv #	35
34) 2-Butanone	2.557	43	2882	0.148	ppbv #	85
36) Benzene	3.651	78	1608	0.060	ppbv	96
39) 1,2-Dichloropropane	3.949	63	65524	6.602	ppbv #	23
44) 2,2,4-Trimethylpentane	4.635	57	22777	0.495	ppbv	93
53) Toluene	6.917	91	15104	0.473	ppbv #	1
58) Ethyl Benzene	9.348	91	9155	0.219	ppbv	90
59) m/p-Xylene	9.542	91	7000	0.208	ppbv #	32
60) o-Xylene	9.959	91	10141	0.299	ppbv	100
64) n-propylbenzene	10.982	120	805	0.064	ppbv	99
65) tert-Butylbenzene	11.536	119	1537	0.034	ppbv #	52
71) 2-Chlorotoluene	10.898	91	2092	0.054	ppbv	95
72) 4-Ethyltoluene	11.118	105	3845	0.093	ppbv #	56
73) 1,3,5-Trimethylbenzene	11.196	105	4940	0.135	ppbv	87
74) 1,2,4-Trimethylbenzene	11.532	105	16215	0.379	ppbv #	61

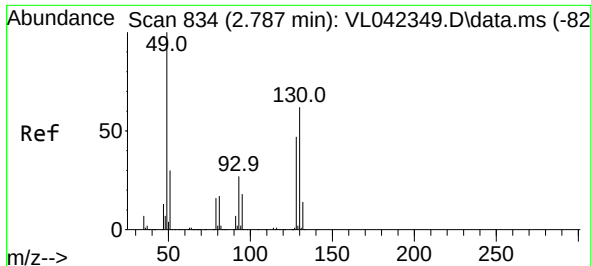
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041725\
Data File : VL042381.D
Acq On : 18 Apr 2025 04:05
Operator : SY/MD
Sample : Q1726-06DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL

Quant Time: Apr 18 04:42:23 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 02:14:00 2025
Response via : Initial Calibration

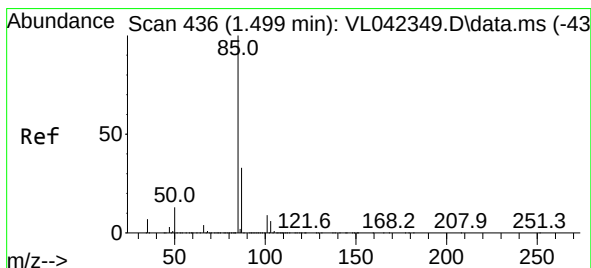
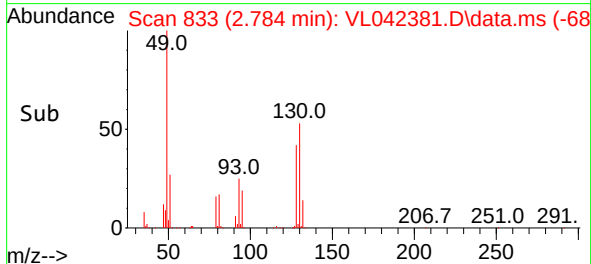
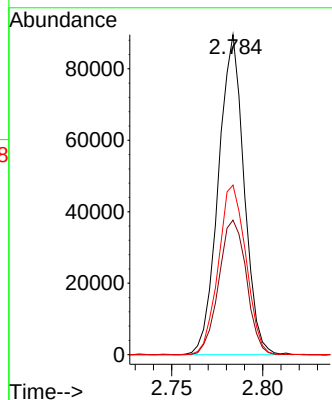
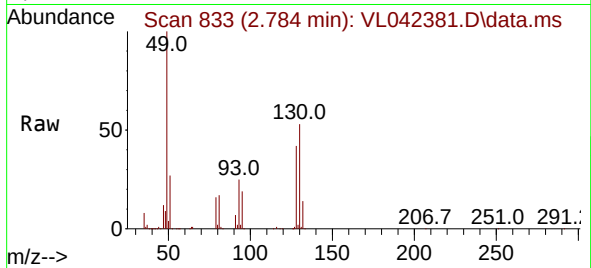




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

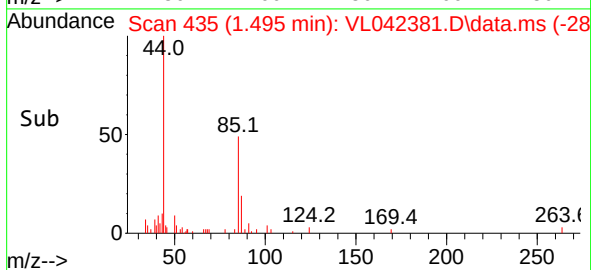
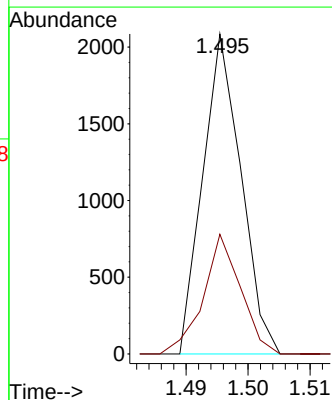
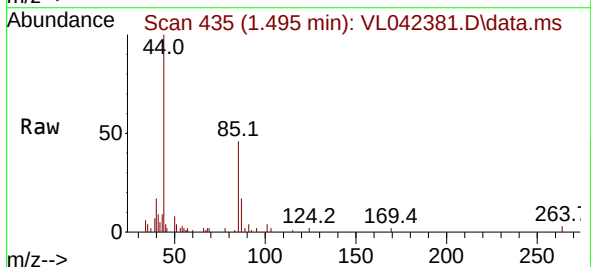
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL

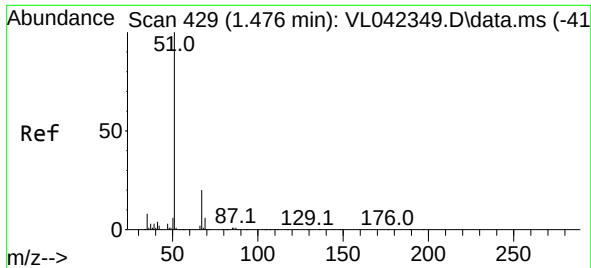
Tgt Ion: 49 Resp: 87593
Ion Ratio Lower Upper
49 100
128 45.3 22.8 68.4
130 56.9 29.3 88.0



#2
Dichlorodifluoromethane
Concen: 0.058 ppbv
RT: 1.495 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

Tgt Ion: 85 Resp: 894
Ion Ratio Lower Upper
85 100
87 37.4 26.6 39.8

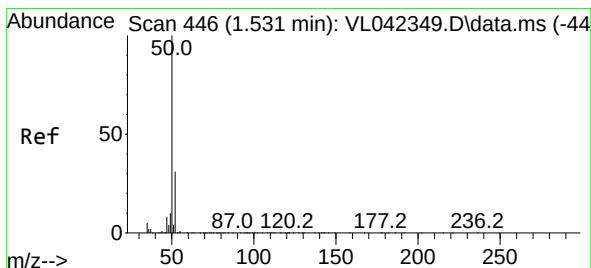
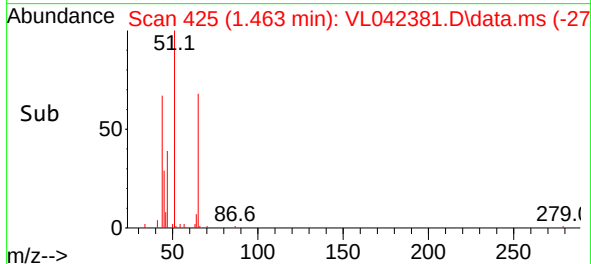
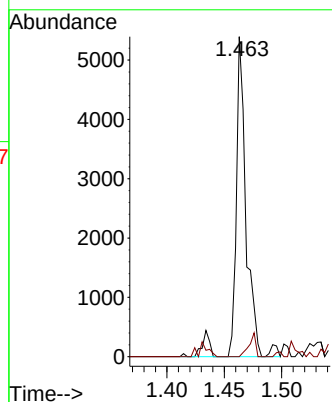
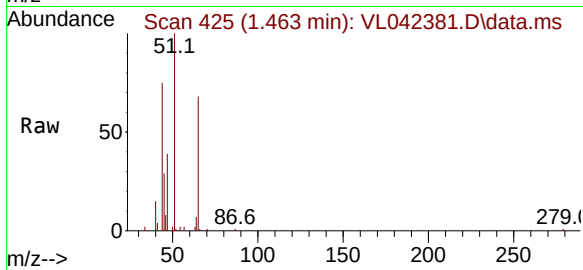




#3
Chlorodifluoromethane
Concen: 0.227 ppbv
RT: 1.463 min Scan# 41
Delta R.T. -0.013 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

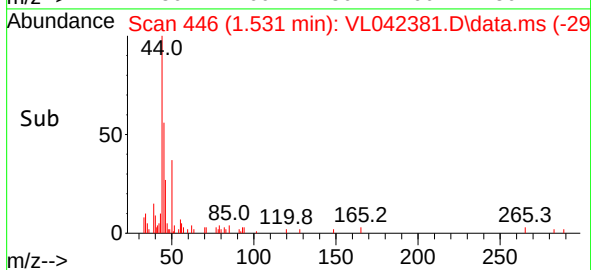
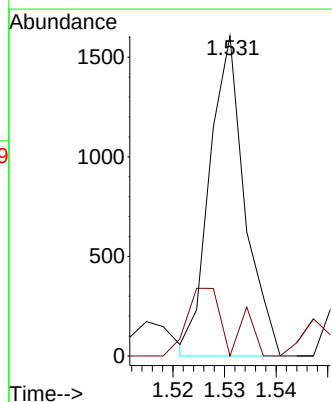
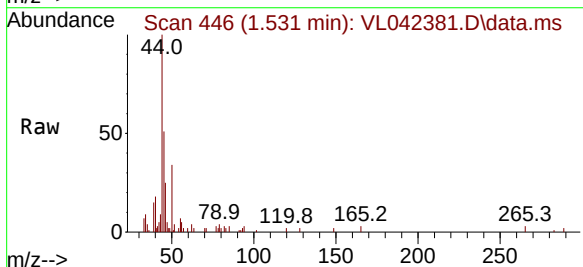
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL

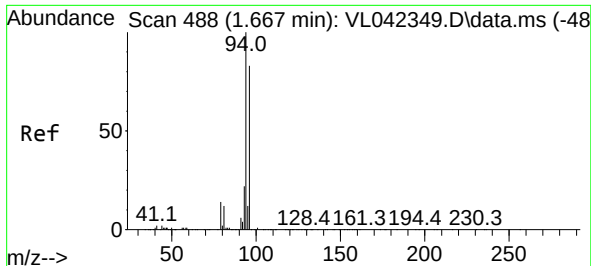
Tgt Ion: 51 Resp: 3346
Ion Ratio Lower Upper
51 100
67 4.8 16.2 24.4#



#4
Chloromethane
Concen: 0.124 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

Tgt Ion: 50 Resp: 759
Ion Ratio Lower Upper
50 100
52 0.0 24.7 37.1#

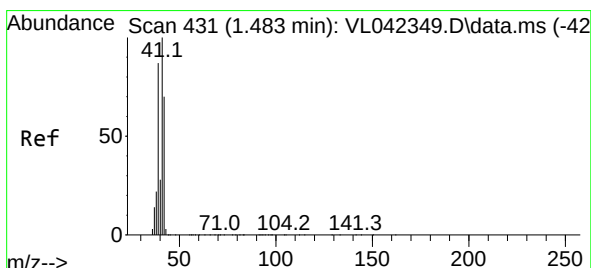
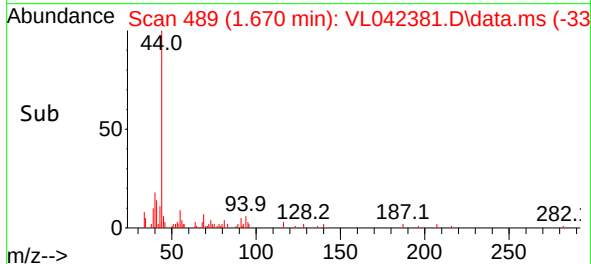
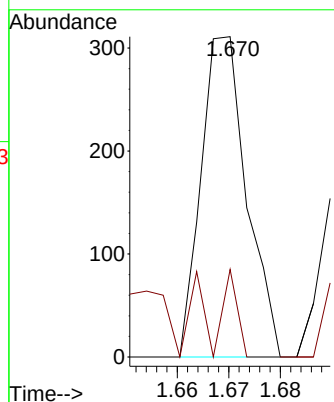
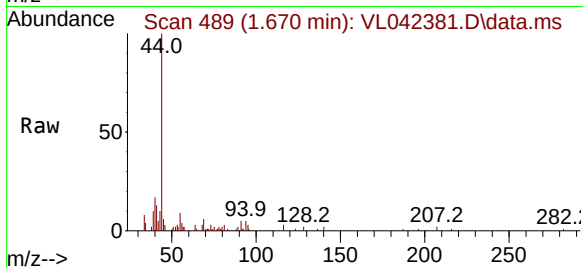




#6
Bromomethane
Concen: 0.067 ppbv
RT: 1.670 min Scan# 411
Delta R.T. 0.003 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

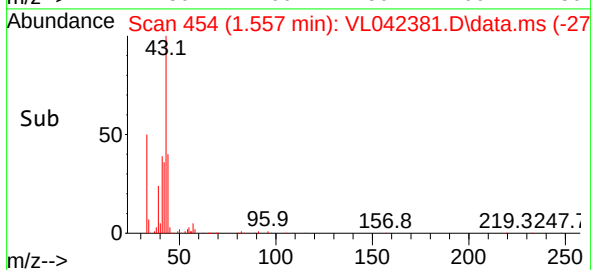
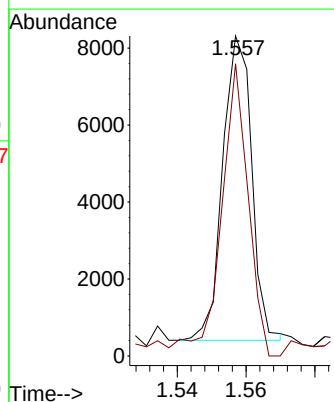
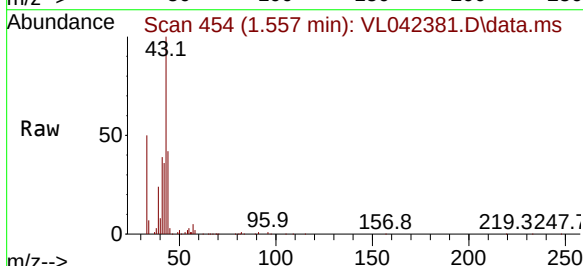
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL

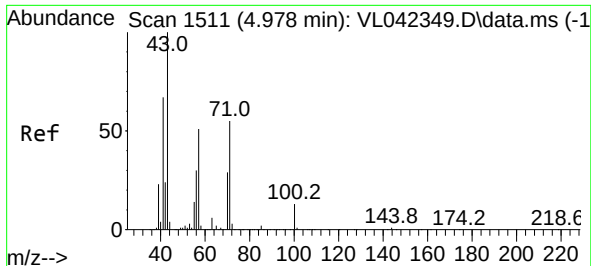
Tgt Ion: 94 Resp: 191
Ion Ratio Lower Upper
94 100
96 27.3 66.2 99.2#



#9
Propene
Concen: 0.689 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.074 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

Tgt Ion: 41 Resp: 4626
Ion Ratio Lower Upper
41 100
42 77.8 56.2 84.4

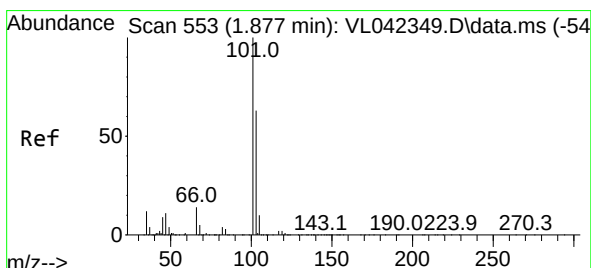
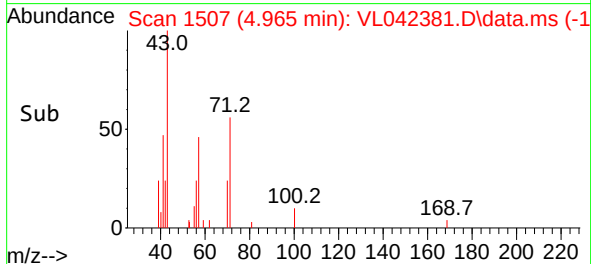
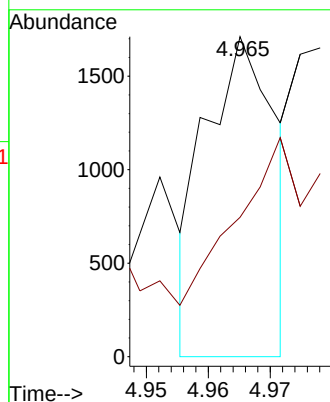
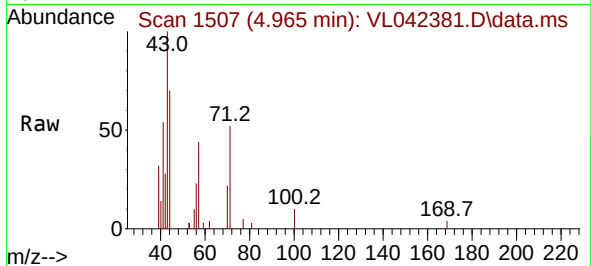




#10
Heptane
Concen: 0.071 ppbv
RT: 4.965 min Scan# 11
Delta R.T. -0.013 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

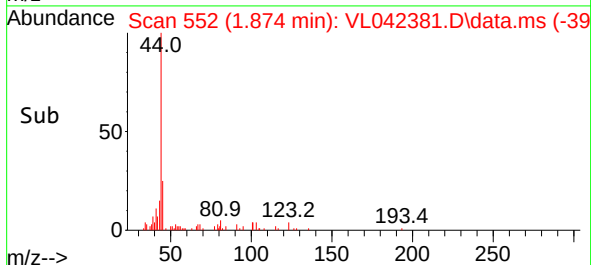
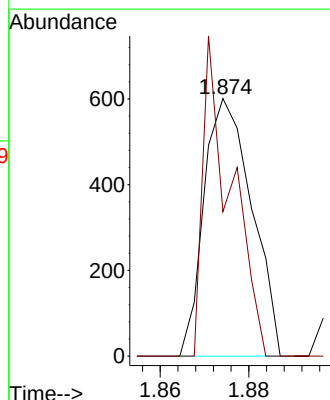
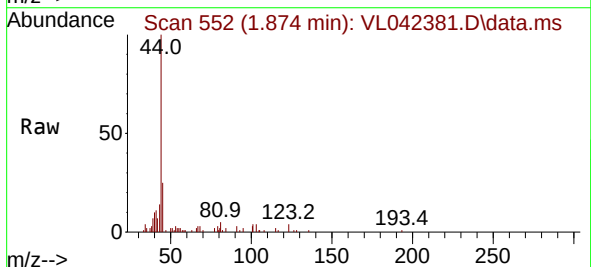
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL

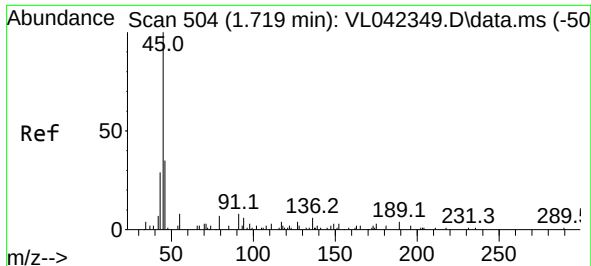
Tgt Ion: 43 Resp: 1342
Ion Ratio Lower Upper
43 100
57 149.6 39.9 59.9#



#11
Trichlorofluoromethane
Concen: 0.031 ppbv
RT: 1.874 min Scan# 552
Delta R.T. -0.003 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

Tgt Ion:101 Resp: 451
Ion Ratio Lower Upper
101 100
103 56.1 50.1 75.1

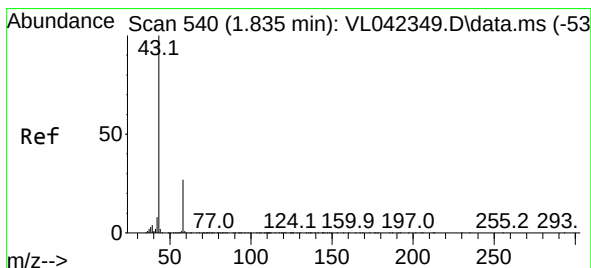
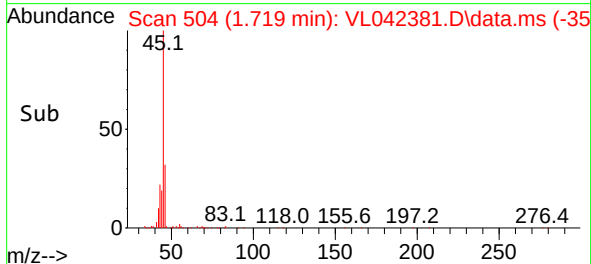
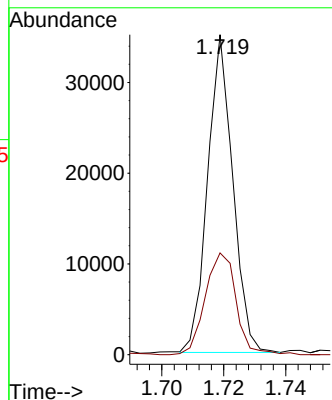
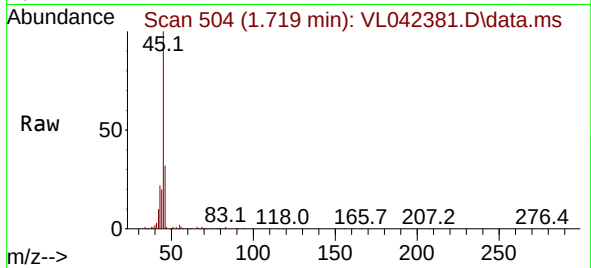




#13
Ethanol
Concen: 18.510 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

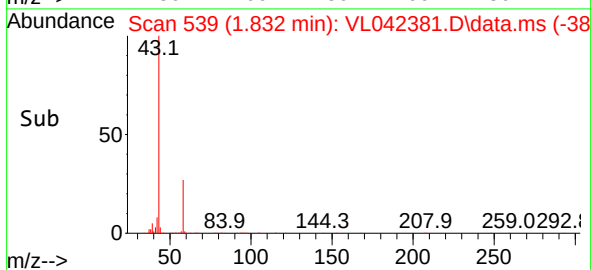
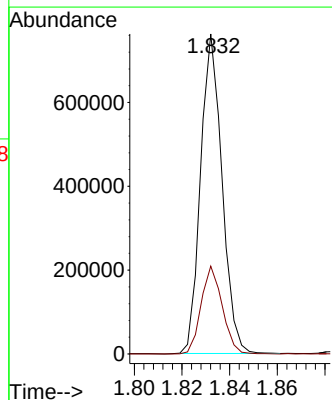
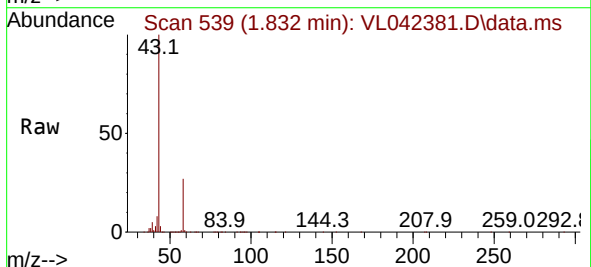
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL

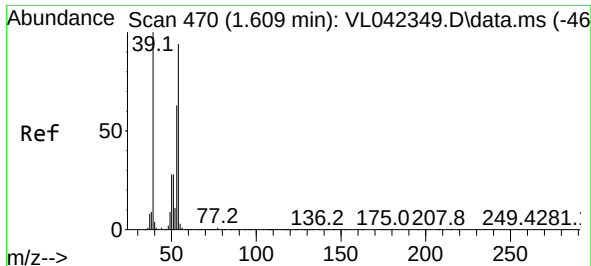
Tgt Ion: 45 Resp: 19745
Ion Ratio Lower Upper
45 100
46 40.4 21.9 87.7



#15
Acetone
Concen: 33.317 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.003 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

Tgt Ion: 43 Resp: 477735
Ion Ratio Lower Upper
43 100
58 27.2 22.4 33.6

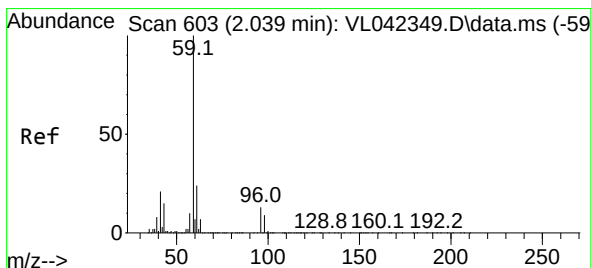
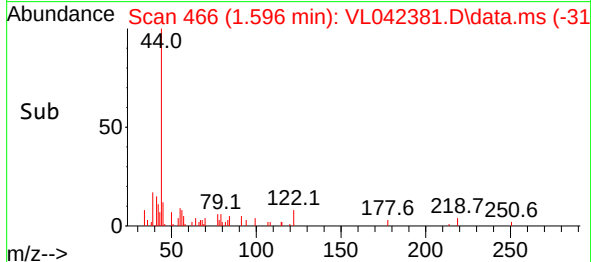
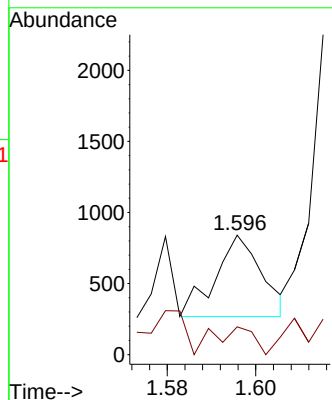
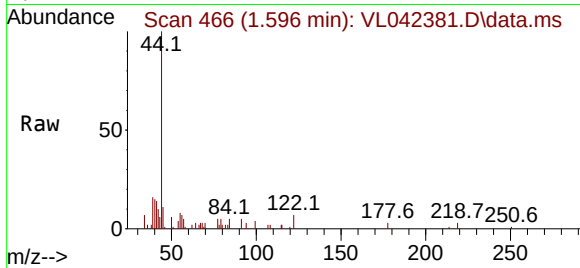




#16
1,3-Butadiene
Concen: 0.061 ppbv
RT: 1.596 min Scan# 417
Delta R.T. -0.013 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

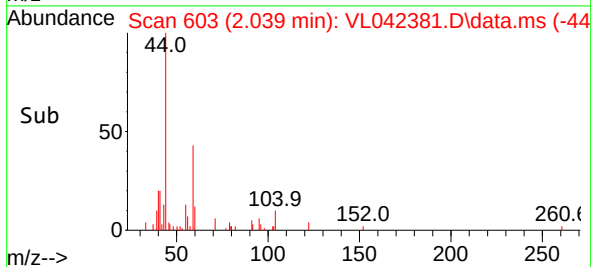
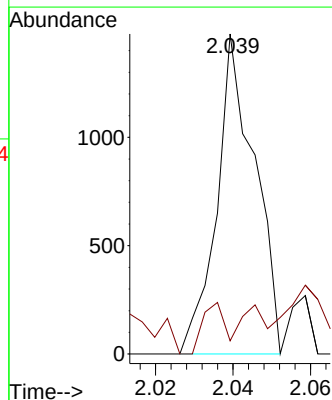
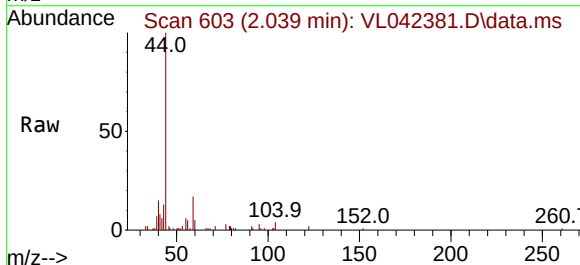
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL

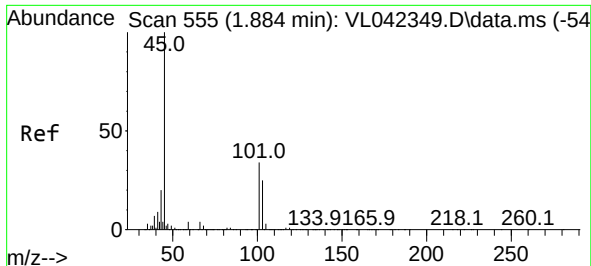
Tgt Ion: 39 Resp: 417
Ion Ratio Lower Upper
39 100
54 0.0 64.9 97.3#



#17
tert-Butyl alcohol
Concen: 0.056 ppbv
RT: 2.039 min Scan# 603
Delta R.T. -0.000 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

Tgt Ion: 59 Resp: 1001
Ion Ratio Lower Upper
59 100
57 62.3 8.7 13.1#

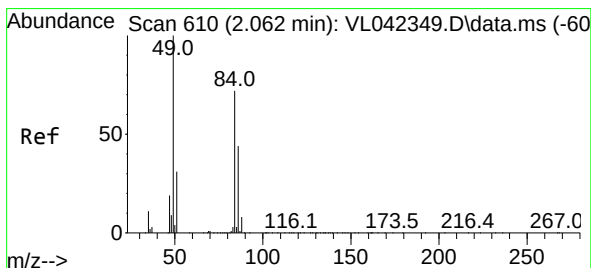
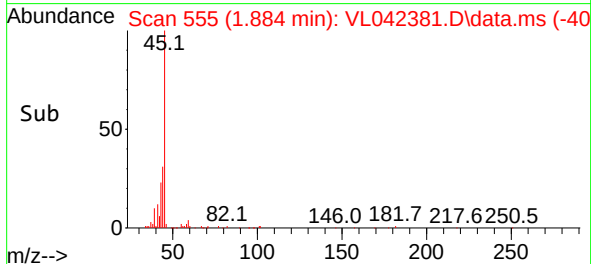
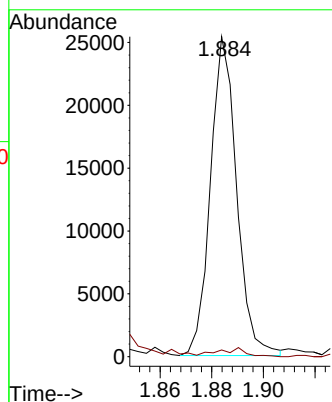
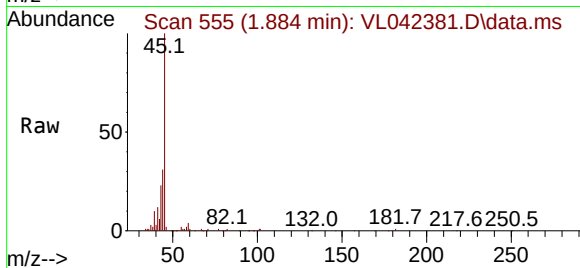




#19
Isopropyl Alcohol
Concen: 2.249 ppbv
RT: 1.884 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

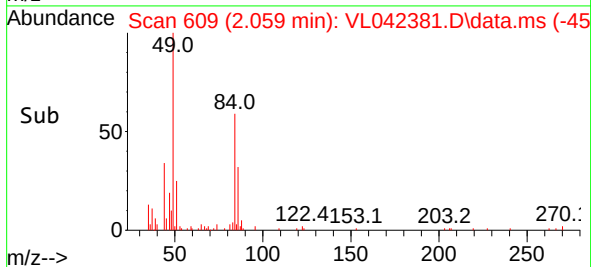
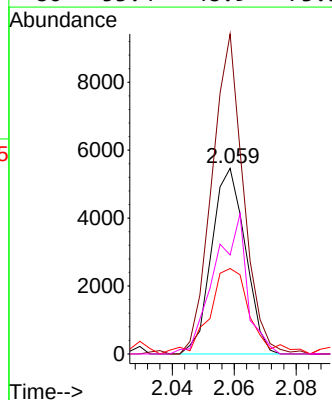
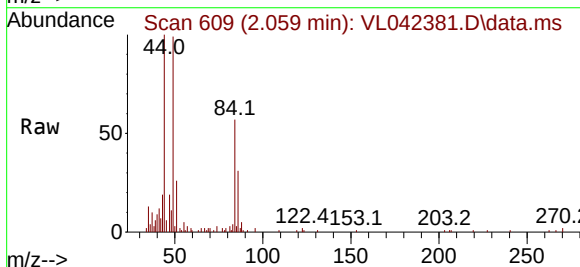
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL

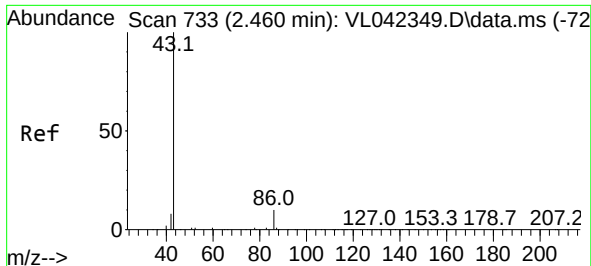
Tgt Ion: 45 Resp: 17914
Ion Ratio Lower Upper
45 100
58 724.8 34.5 51.7#



#20
Methylene Chloride
Concen: 0.735 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.003 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

Tgt Ion: 84 Resp: 4126
Ion Ratio Lower Upper
84 100
49 172.4 111.6 167.4#
51 42.3 35.1 52.7
86 53.4 48.9 73.3

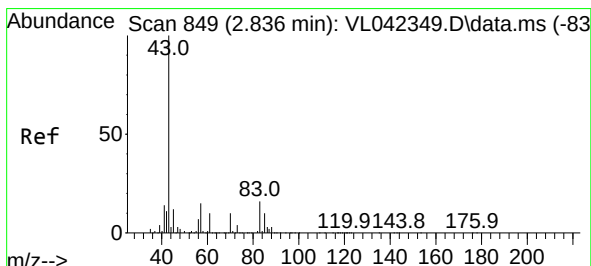
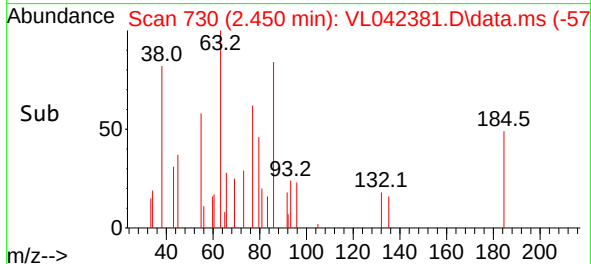
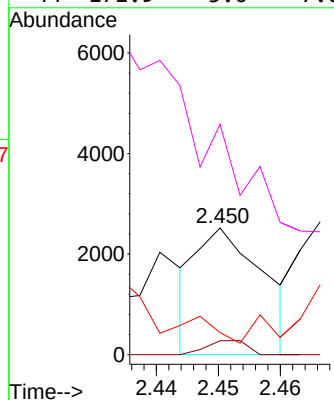
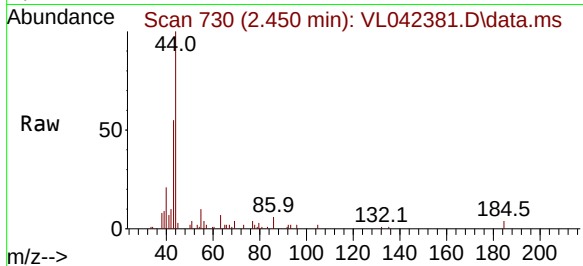




#23
 Vinyl Acetate
 Concen: 0.325 ppbv
 RT: 2.450 min Scan# 71
 Delta R.T. -0.010 min
 Lab File: VL042381.D
 Acq: 18 Apr 2025 04:05

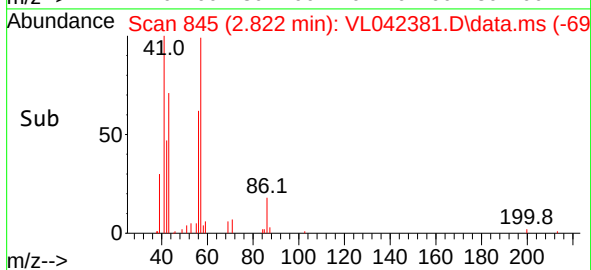
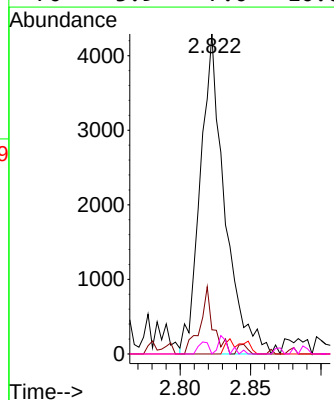
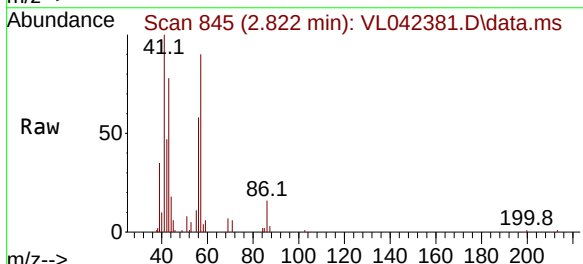
Instrument :
 MSVOA_1
 ClientSampleId :
 IA-B2-3-03312025DL

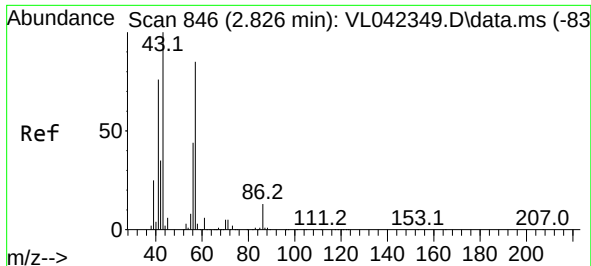
Tgt Ion:	43	Resp:	1889
Ion	Ratio	Lower	Upper
43	100		
86	24.4	6.5	9.7#
42	8.3	7.8	11.8
44	171.9	5.0	7.6#



#25
 Ethyl Acetate
 Concen: 0.147 ppbv
 RT: 2.822 min Scan# 845
 Delta R.T. -0.013 min
 Lab File: VL042381.D
 Acq: 18 Apr 2025 04:05

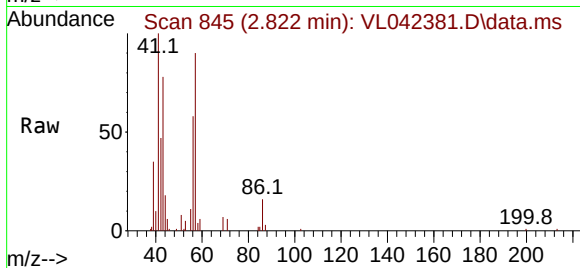
Tgt Ion:	43	Resp:	5205
Ion	Ratio	Lower	Upper
43	100		
45	12.6	8.3	12.5#
61	3.4	7.3	10.9#
70	3.9	7.0	10.6#





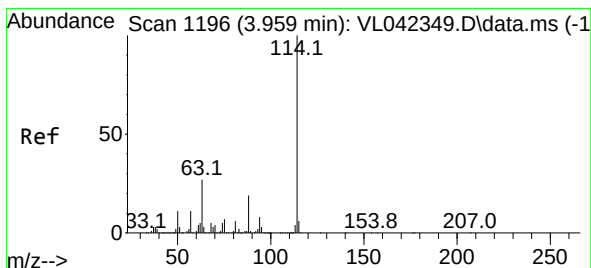
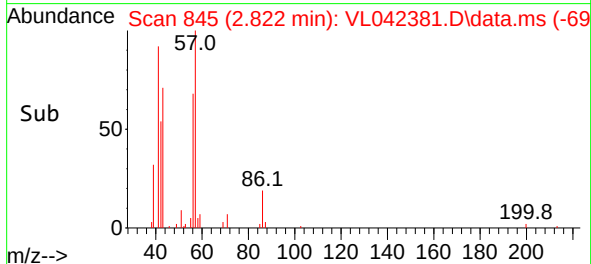
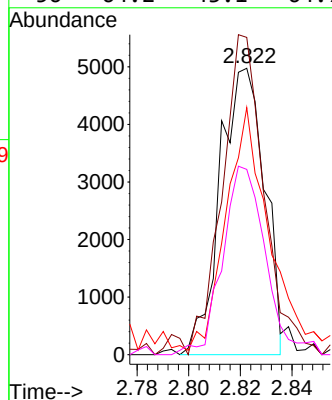
#26
Hexane
Concen: 0.416 ppbv
RT: 2.822 min Scan# 846
Delta R.T. -0.003 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL



Tgt Ion: 57 Resp: 5952

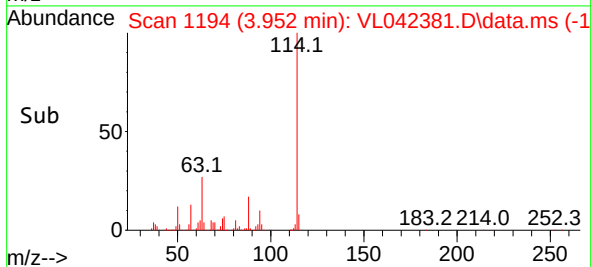
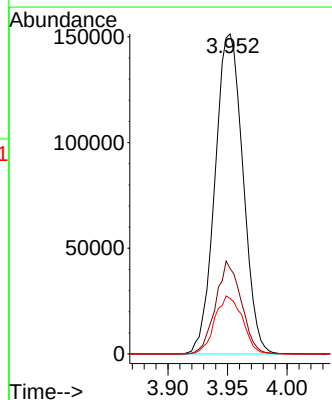
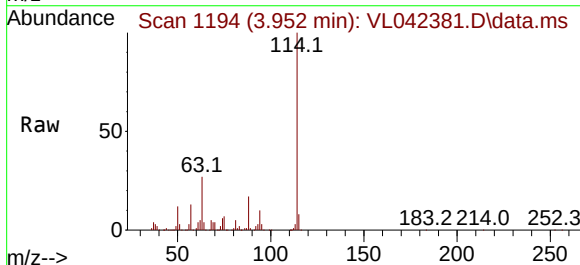
Ion	Ratio	Lower	Upper
57	100		
41	102.6	77.9	116.9
43	84.8	208.4	312.6#
56	64.2	43.1	64.7

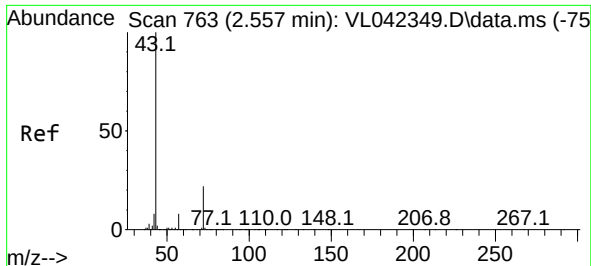


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. -0.007 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

Tgt Ion: 114 Resp: 246915

Ion	Ratio	Lower	Upper
114	100		
63	26.6	21.8	32.6
88	17.9	15.5	23.3





#34

2-Butanone

Concen: 0.148 ppbv

RT: 2.557 min Scan# 7

Delta R.T. -0.000 min

Lab File: VL042381.D

Acq: 18 Apr 2025 04:05

Instrument :

MSVOA_L

ClientSampleId :

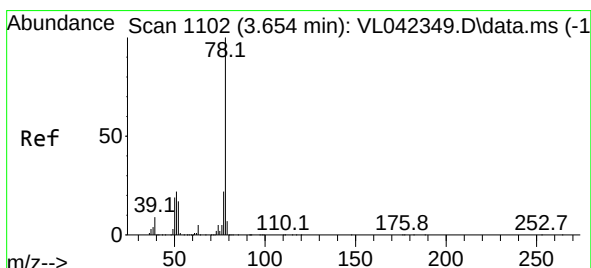
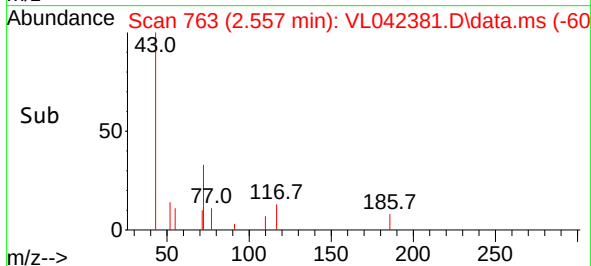
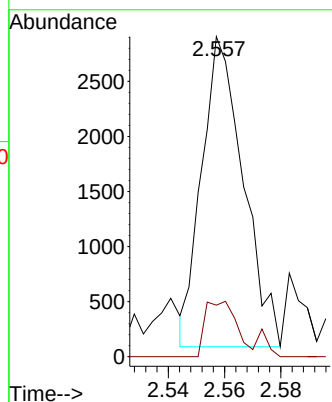
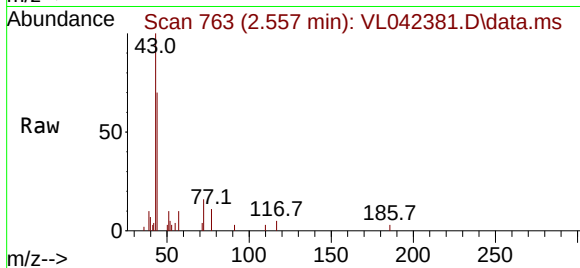
IA-B2-3-03312025DL

Tgt Ion: 43 Resp: 2882

Ion Ratio Lower Upper

43 100

72 15.7 18.2 27.2#



#36

Benzene

Concen: 0.060 ppbv

RT: 3.651 min Scan# 1101

Delta R.T. -0.003 min

Lab File: VL042381.D

Acq: 18 Apr 2025 04:05

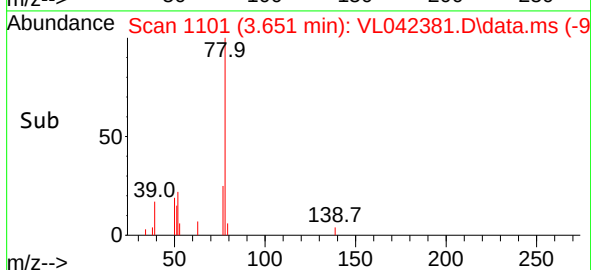
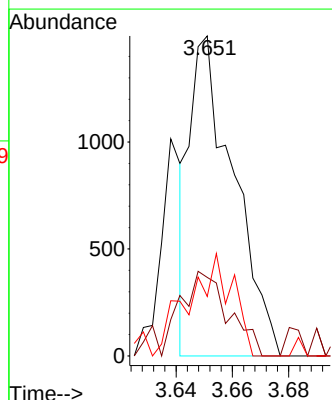
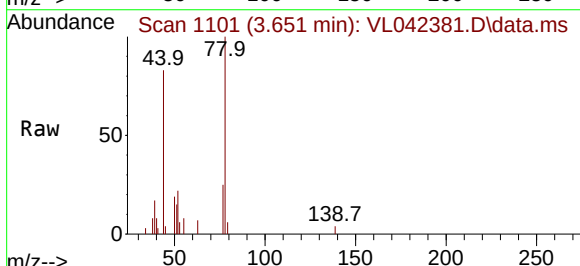
Tgt Ion: 78 Resp: 1608

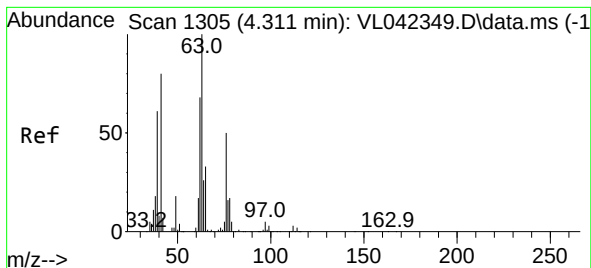
Ion Ratio Lower Upper

78 100

77 24.5 17.4 26.0

50 18.6 15.5 23.3





#39

1,2-Dichloropropane

Concen: 6.602 ppbv

RT: 3.949 min Scan# 1193

Delta R.T. -0.363 min

Lab File: VL042381.D

Acq: 18 Apr 2025 04:05

Instrument :

MSVOA_L

ClientSampleId :

IA-B2-3-03312025DL

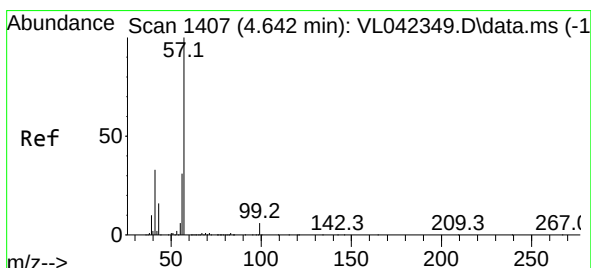
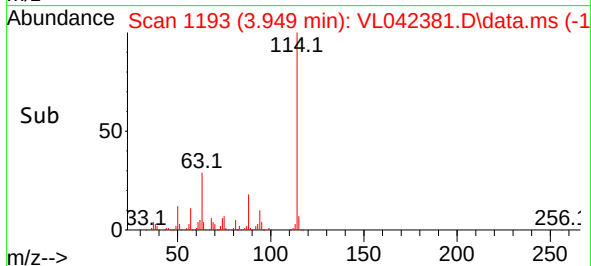
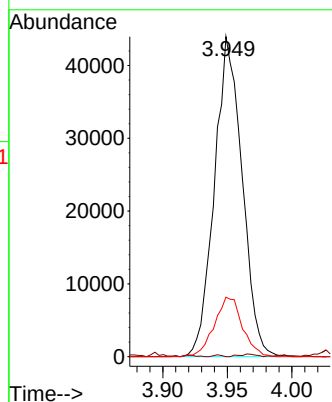
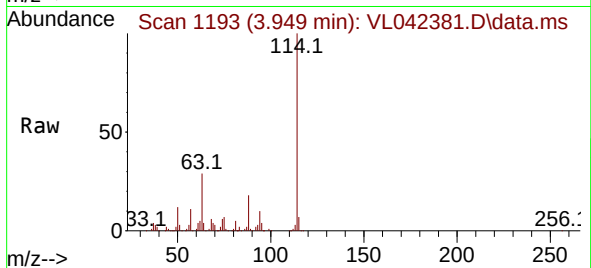
Tgt Ion: 63 Resp: 65524

Ion Ratio Lower Upper

63 100

41 0.0 64.2 96.2#

62 18.6 54.3 81.5#



#44

2,2,4-Trimethylpentane

Concen: 0.495 ppbv

RT: 4.635 min Scan# 1405

Delta R.T. -0.007 min

Lab File: VL042381.D

Acq: 18 Apr 2025 04:05

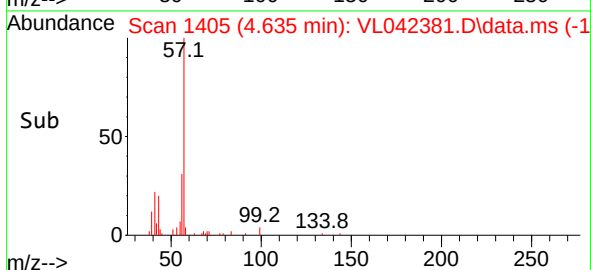
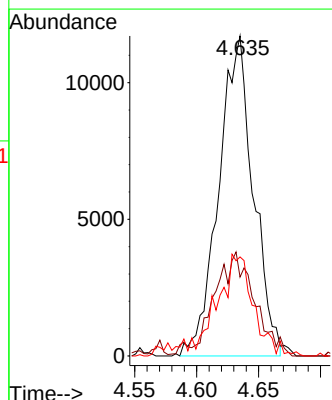
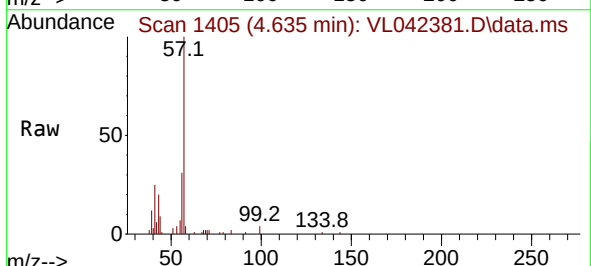
Tgt Ion: 57 Resp: 22777

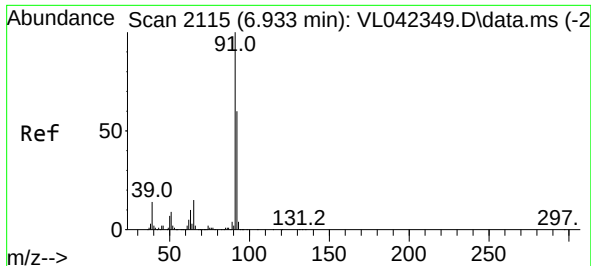
Ion Ratio Lower Upper

57 100

41 38.3 27.2 40.8

56 35.7 25.7 38.5

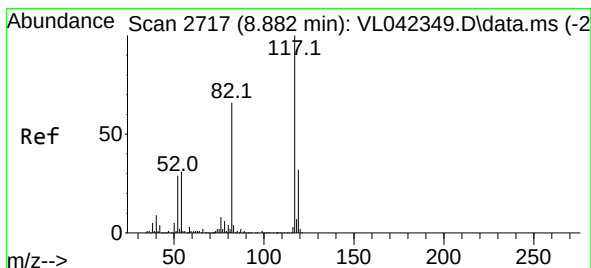
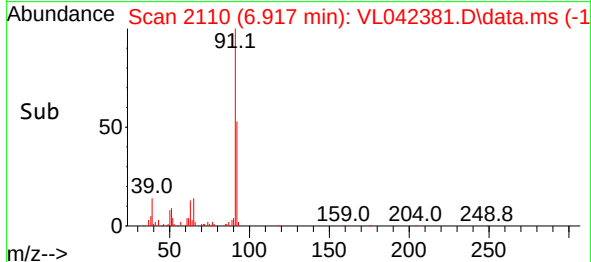
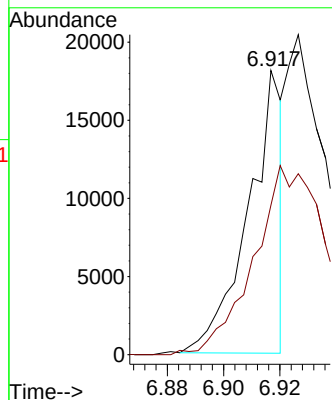
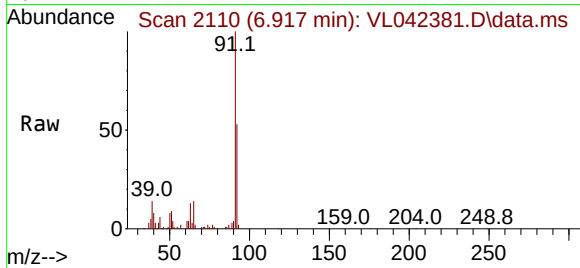




#53
Toluene
Concen: 0.473 ppbv
RT: 6.917 min Scan# 2110
Delta R.T. -0.016 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

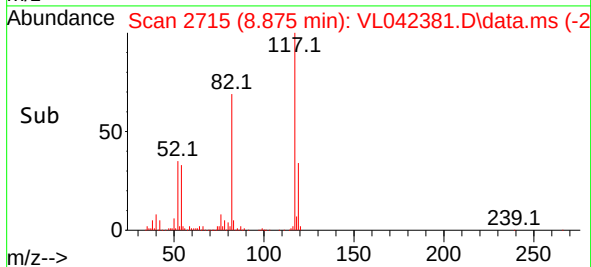
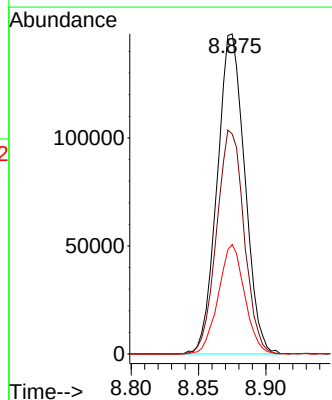
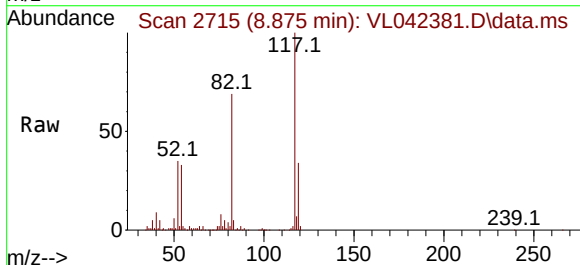
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL

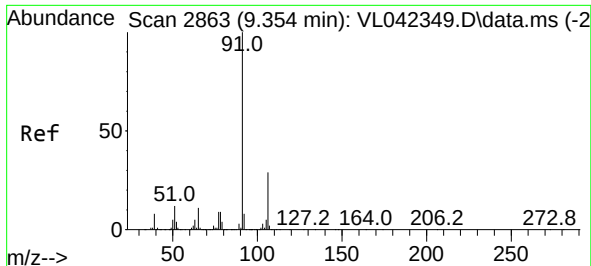
Tgt Ion: 91 Resp: 15104
Ion Ratio Lower Upper
91 100
92 147.7 48.2 72.4#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. -0.007 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

Tgt Ion: 117 Resp: 211054
Ion Ratio Lower Upper
117 100
82 69.8 57.8 86.6
119 32.7 25.2 37.8

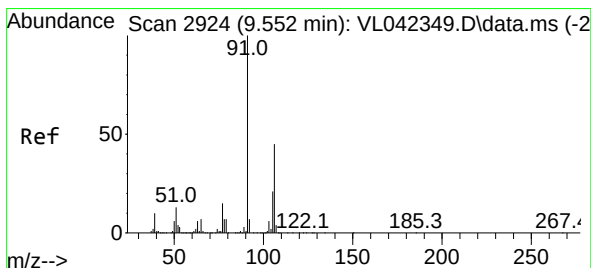
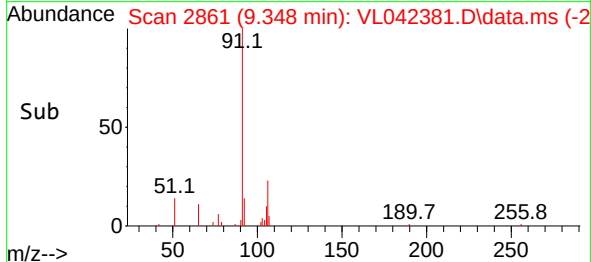
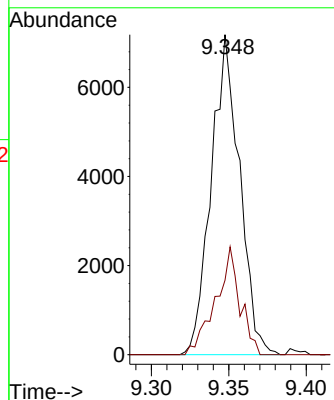
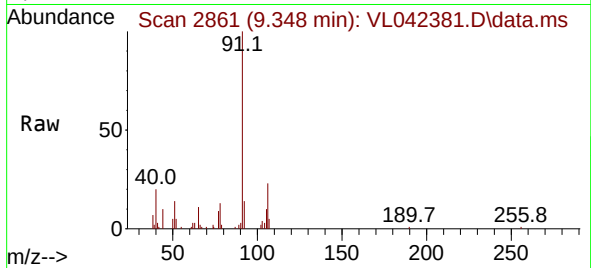




#58
Ethyl Benzene
Concen: 0.219 ppbv
RT: 9.348 min Scan# 21
Delta R.T. -0.007 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

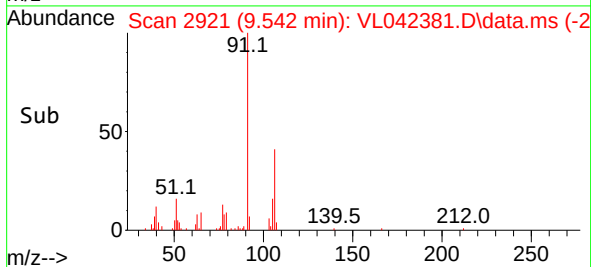
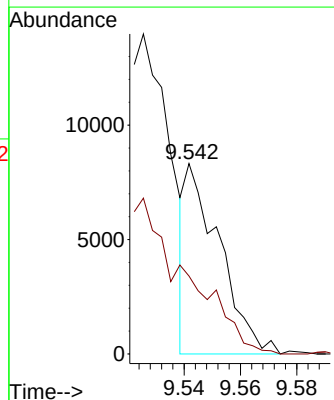
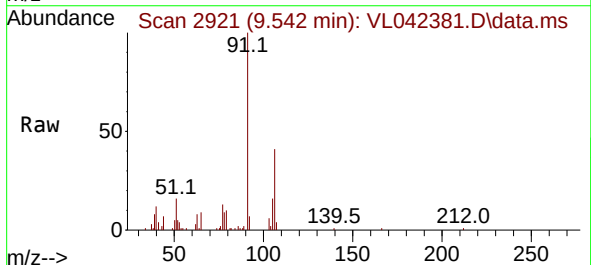
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL

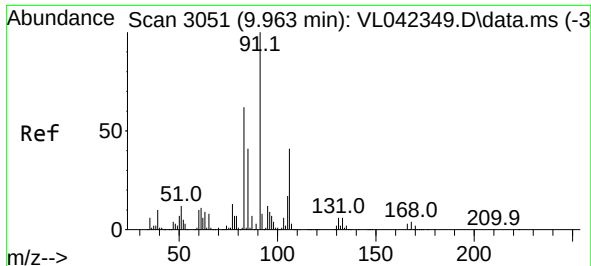
Tgt Ion: 91 Resp: 9155
Ion Ratio Lower Upper
91 100
106 23.3 23.0 34.4



#59
m/p-Xylene
Concen: 0.208 ppbv
RT: 9.542 min Scan# 2921
Delta R.T. -0.010 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

Tgt Ion: 91 Resp: 7000
Ion Ratio Lower Upper
91 100
106 0.0 35.4 53.2#

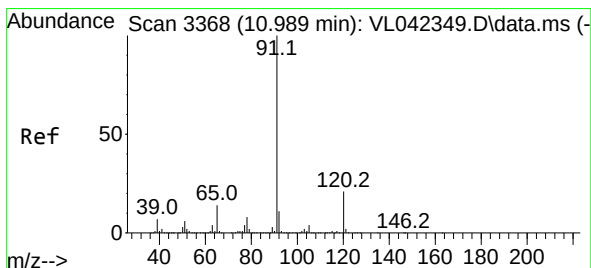
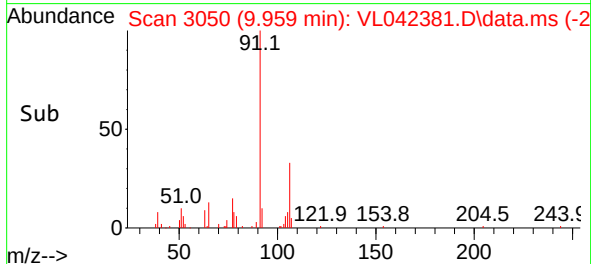
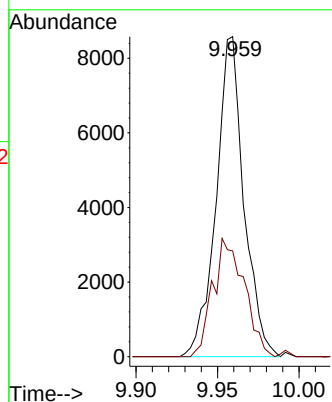
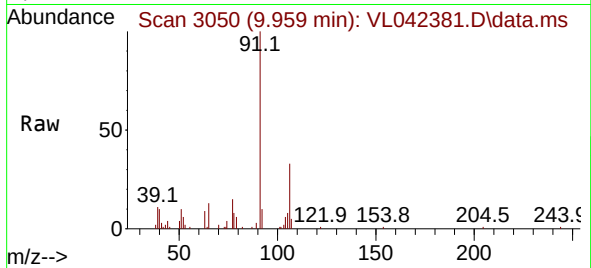




#60
o-Xylene
Concen: 0.299 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.003 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

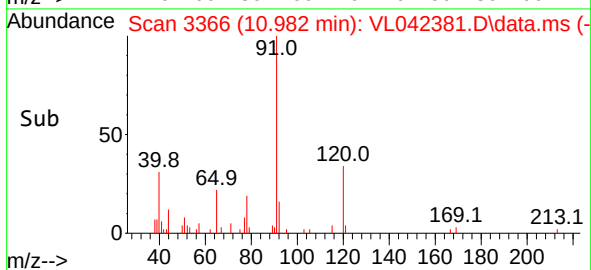
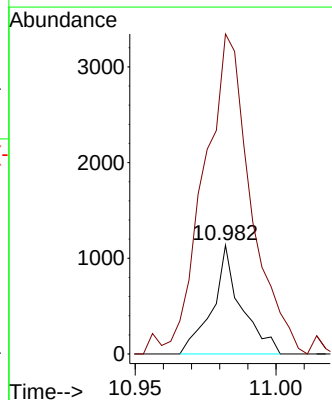
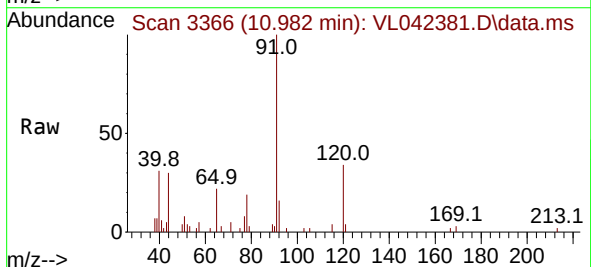
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL

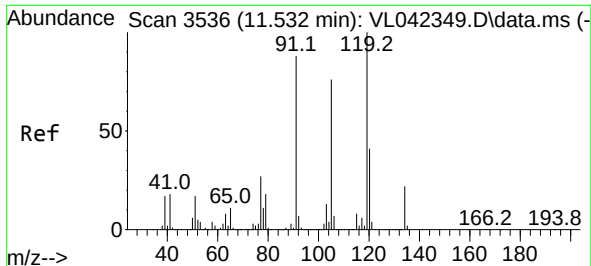
Tgt Ion: 91 Resp: 10141
Ion Ratio Lower Upper
91 100
106 42.6 21.1 63.4



#64
n-propylbenzene
Concen: 0.064 ppbv
RT: 10.982 min Scan# 3366
Delta R.T. -0.007 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

Tgt Ion: 120 Resp: 805
Ion Ratio Lower Upper
120 100
91 492.0 392.4 588.6

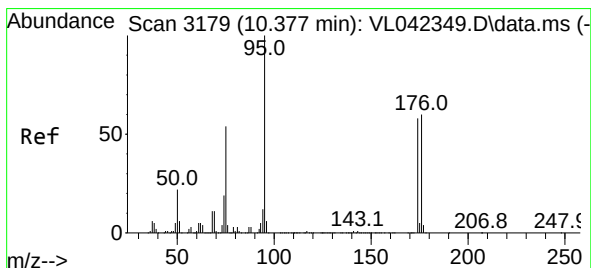
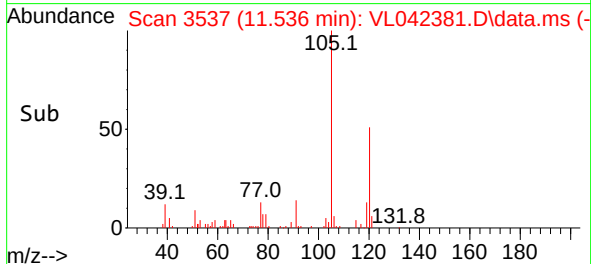
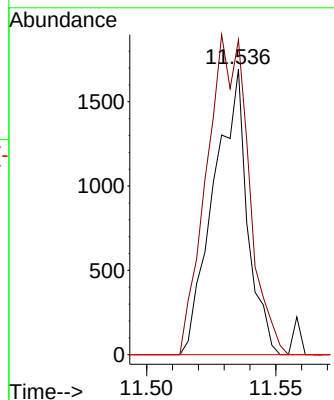
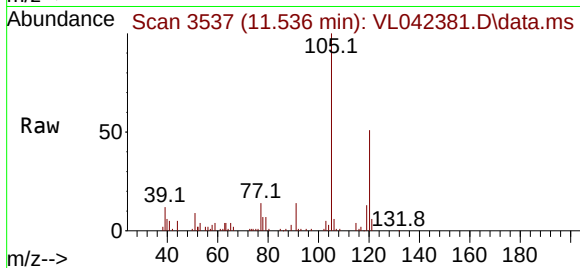




#65
tert-Butylbenzene
Concen: 0.034 ppbv
RT: 11.536 min Scan# 3119
Delta R.T. 0.003 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

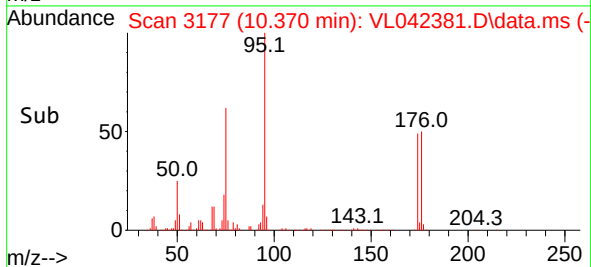
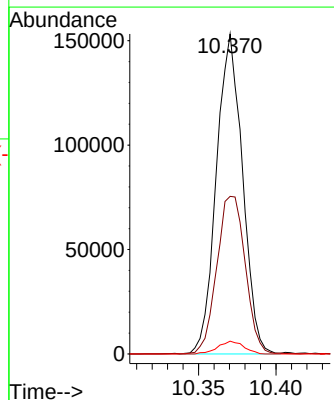
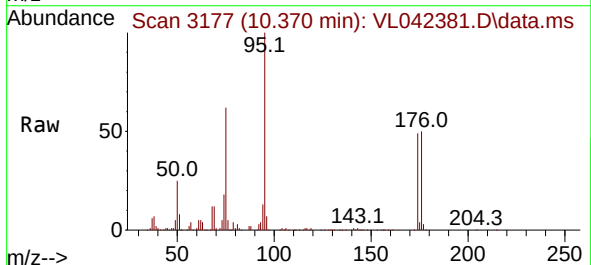
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL

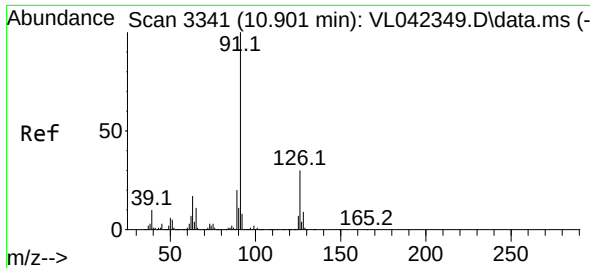
Tgt Ion:119 Resp: 1537
Ion Ratio Lower Upper
119 100
91 139.7 74.6 111.8#
134 0.0 18.8 28.2#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.344 ppbv
RT: 10.370 min Scan# 3177
Delta R.T. -0.007 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

Tgt Ion: 95 Resp: 179405
Ion Ratio Lower Upper
95 100
174 53.8 48.5 72.7
175 4.0 3.7 5.5

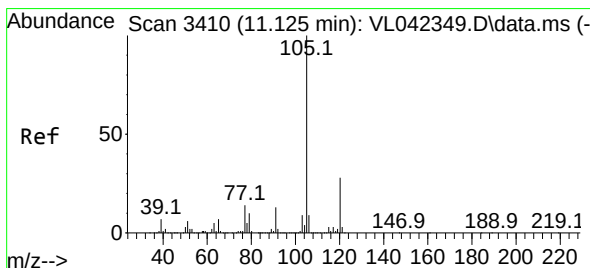
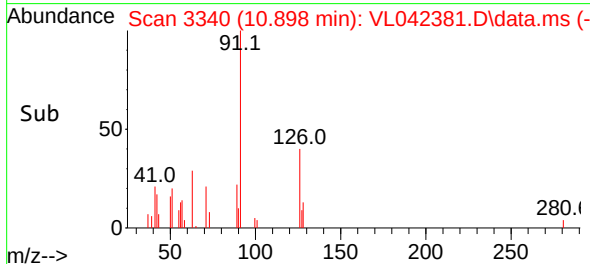
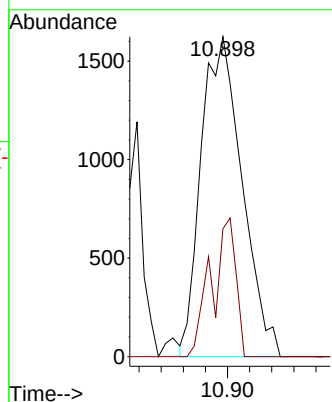
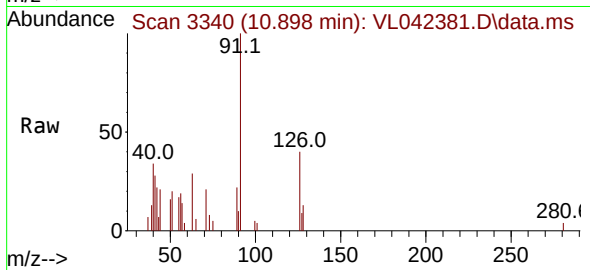




#71
2-Chlorotoluene
Concen: 0.054 ppbv
RT: 10.898 min Scan# 31
Delta R.T. -0.003 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

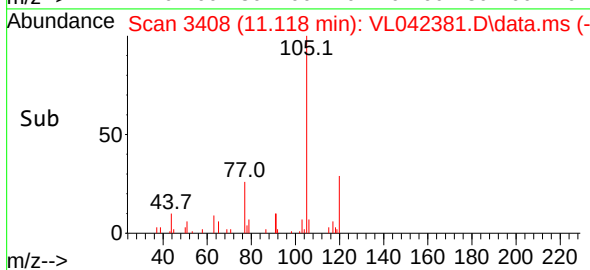
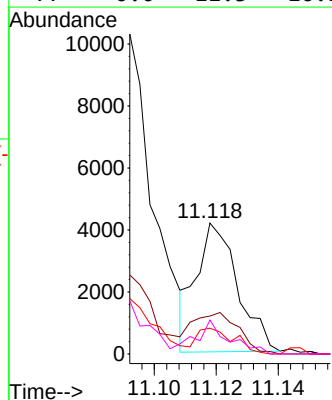
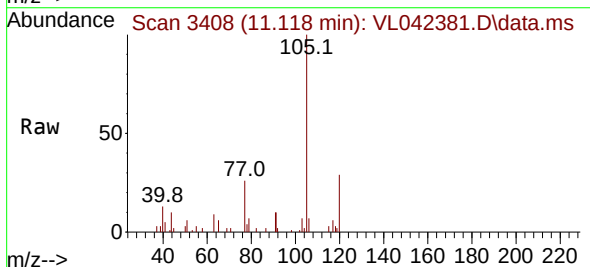
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL

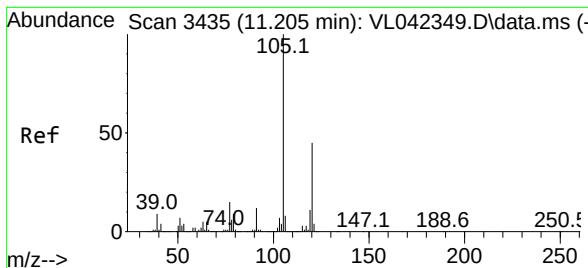
Tgt Ion: 91 Resp: 2092
Ion Ratio Lower Upper
91 100
126 25.6 11.4 45.4



#72
4-Ethyltoluene
Concen: 0.093 ppbv
RT: 11.118 min Scan# 3408
Delta R.T. -0.007 min
Lab File: VL042381.D
Acq: 18 Apr 2025 04:05

Tgt Ion:105 Resp: 3845
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: 0.135 ppbv

RT: 11.196 min Scan# 34

Delta R.T. -0.010 min

Lab File: VL042381.D

Acq: 18 Apr 2025 04:05

Instrument :

MSVOA_L

ClientSampleId :

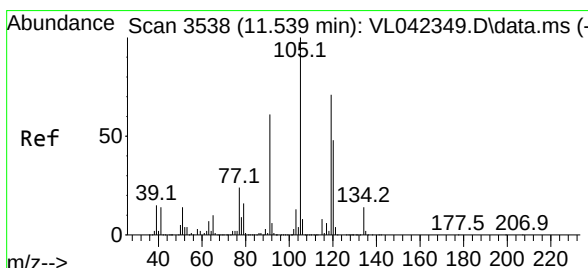
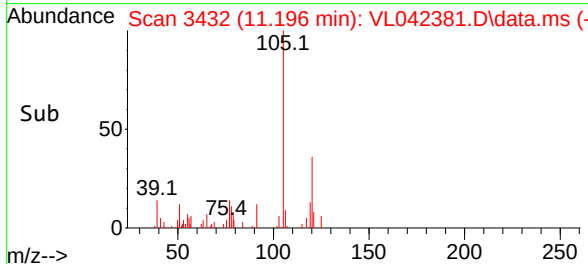
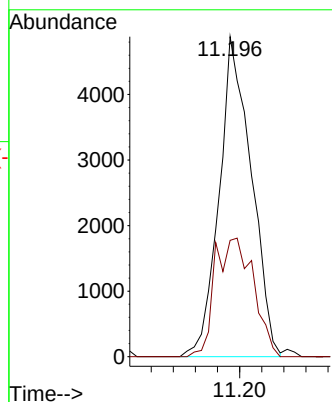
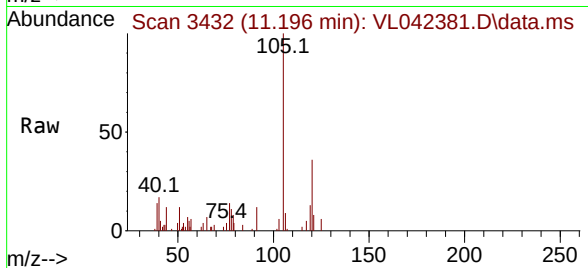
IA-B2-3-03312025DL

Tgt Ion:105 Resp: 4940

Ion Ratio Lower Upper

105 100

120 36.4 35.6 53.4



#74

1,2,4-Trimethylbenzene

Concen: 0.379 ppbv

RT: 11.532 min Scan# 3536

Delta R.T. -0.007 min

Lab File: VL042381.D

Acq: 18 Apr 2025 04:05

Tgt Ion:105 Resp: 16215

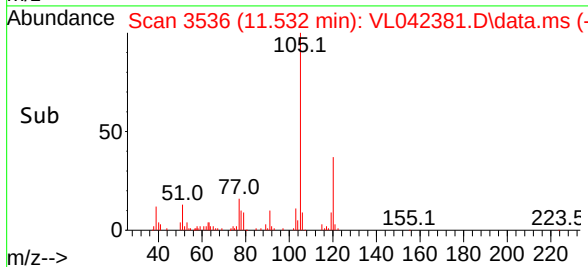
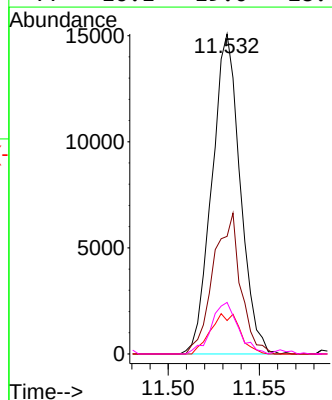
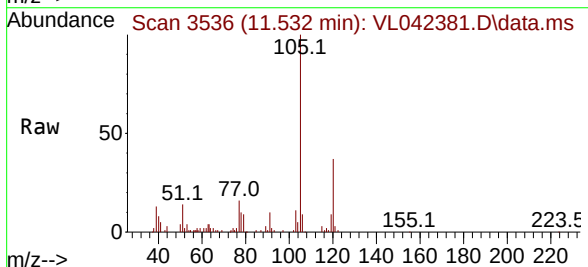
Ion Ratio Lower Upper

105 100

120 36.7 38.1 57.1#

91 10.5 48.8 73.2#

77 16.1 19.0 28.4#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
 Data File : VL042383.D
 Acq On : 18 Apr 2025 10:23
 Operator : SY/MD
 Sample : VSTDC0010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDC0010

Quant Time: Apr 18 22:55:20 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	2.784	49	135964	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	427541	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	379215	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	309235	9.924	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.200%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	227548	9.472	ppbv	95
3) Chlorodifluoromethane	1.473	51	195422	8.543	ppbv	96
4) Chloromethane	1.531	50	84884	8.929	ppbv	96
5) Vinyl Chloride	1.576	62	82816	8.003	ppbv	97
6) Bromomethane	1.664	94	39633	8.916	ppbv	90
7) Chloroethane	1.703	64	33067	8.836	ppbv	96
8) Dichlorotetrafluoroethane	1.551	85	193310	9.373	ppbv	98
9) Propene	1.483	41	79602	7.641	ppbv	98
10) Heptane	4.968	43	211969	7.242	ppbv	97
11) Trichlorofluoromethane	1.874	101	220733	9.663	ppbv	94
12) 1,1,2-Trichlorotrifluo...	2.136	101	171052	9.158	ppbv	96
13) Ethanol	1.719	45	4291	2.592	ppbv	96
14) Bromoethene	1.777	108	66481	9.442	ppbv	99
15) Acetone	1.832	43	172096	7.732	ppbv	100
16) 1,3-Butadiene	1.606	39	84576	7.945	ppbv	96
17) tert-Butyl alcohol	2.036	59	230418	8.353	ppbv	100
18) 1,1-Dichloroethene	2.030	96	79587	9.121	ppbv	96
19) Isopropyl Alcohol	1.884	45	101483	8.208	ppbv	93
20) Methylene Chloride	2.059	84	65868	7.556	ppbv	96
21) Allyl Chloride	2.091	41	126980	8.263	ppbv	98
22) trans-1,2-Dichloroethene	2.337	96	88798	8.938	ppbv	98
23) Vinyl Acetate	2.457	43	64135	7.119	ppbv #	98
24) 1,1-Dichloroethane	2.405	63	173462	9.191	ppbv	99
25) Ethyl Acetate	2.832	43	441499	8.045	ppbv	100
26) Hexane	2.819	57	177427	7.989	ppbv	95
27) Carbon Disulfide	2.146	76	209681	8.818	ppbv	98
28) Methyl tert-Butyl Ether	2.437	73	122464	8.416	ppbv	92
29) Chloroform	2.842	83	296747	9.453	ppbv	96
30) Cyclohexane	3.849	84	155716	8.673	ppbv	94
31) cis-1,2-Dichloroethene	2.716	61	190037	9.000	ppbv	98
32) 1,1,1-Trichloroethane	3.363	97	321462	9.097	ppbv	99
34) 2-Butanone	2.554	43	249113	7.367	ppbv	98
35) Carbon Tetrachloride	3.755	117	336452	8.695	ppbv	97
36) Benzene	3.648	78	361650	7.842	ppbv	97
37) 1,2-Dichloroethane	3.214	62	239079	8.638	ppbv	98
38) Trichloroethene	4.541	130	160521	7.964	ppbv	96
39) 1,2-Dichloropropane	4.305	63	128161	7.458	ppbv	95
40) 1,4-Dioxane	4.574	88	65746	6.962	ppbv #	92
41) Tetrahydrofuran	3.049	42	137694	6.984	ppbv	97
42) Bromodichloromethane	4.483	83	332490	8.632	ppbv	99
43) Methyl Methacrylate	4.871	69	147517	7.098	ppbv	99
44) 2,2,4-Trimethylpentane	4.629	57	587274	7.374	ppbv	98
45) t-1,3-Dichloropropene	6.402	75	164658	7.756	ppbv	95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
 Data File : VL042383.D
 Acq On : 18 Apr 2025 10:23
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

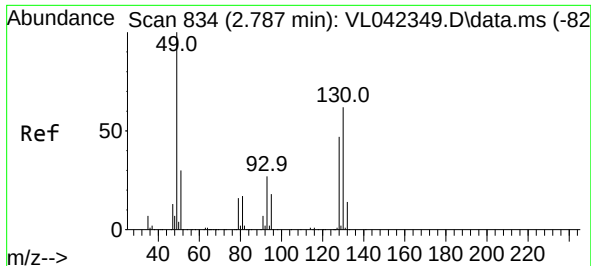
Quant Time: Apr 18 22:55:20 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 02:14:00 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	200823	7.729	ppbv	92
47) 1,1,2-Trichloroethane	6.571	97	143547	8.199	ppbv	94
48) Dibromochloromethane	7.380	129	276258	8.931	ppbv	99
49) Bromoform	9.477	173	245731	9.086	ppbv	98
50) 4-Methyl-2-Pentanone	5.742	43	365292	6.501	ppbv	99
51) 2-Hexanone	7.428	43	296019	5.874	ppbv #	98
52) Tetrachloroethene	8.218	164	138295	7.759	ppbv	96
53) Toluene	6.927	91	436388	7.886	ppbv	99
54) 1,2-Dibromoethane	7.645	107	209152	8.347	ppbv	90
56) 1,1,1,2-Tetrachloroethane	8.917	131	207437	9.038	ppbv	99
57) Chlorobenzene	8.917	112	339932	8.619	ppbv	95
58) Ethyl Benzene	9.351	91	620425	8.258	ppbv	99
59) m/p-Xylene	9.545	91	492303	8.134	ppbv #	29
60) o-Xylene	9.959	91	505258	8.290	ppbv	100
61) Styrene	9.865	104	240108	8.253	ppbv	99
62) Isopropylbenzene	10.535	105	753628	8.422	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.959	83	297020	7.520	ppbv	98
64) n-propylbenzene	10.985	120	191951	8.534	ppbv	91
65) tert-Butylbenzene	11.529	119	688133	8.367	ppbv	93
66) Benzyl Chloride	11.610	91	60227	6.664	ppbv	96
67) sec-Butylbenzene	11.762	105	948966	8.295	ppbv	98
69) p-Isopropyltoluene	11.924	119	826443	8.315	ppbv	100
70) n-Butylbenzene	12.277	91	832220	8.039	ppbv	99
71) 2-Chlorotoluene	10.898	91	582951	8.306	ppbv	100
72) 4-Ethyltoluene	11.121	105	615202	8.256	ppbv	99
73) 1,3,5-Trimethylbenzene	11.199	105	540783	8.220	ppbv	98
74) 1,2,4-Trimethylbenzene	11.536	105	598825	7.794	ppbv	98
75) 1,3-Dichlorobenzene	11.604	146	345226	8.644	ppbv	99
76) 1,4-Dichlorobenzene	11.668	146	340293	8.477	ppbv	99
77) 1,2-Dichlorobenzene	11.943	146	339821	8.751	ppbv	99
78) Hexachloro-1,3-Butadiene	13.879	225	355324	9.061	ppbv	99
79) Naphthalene	13.510	128	724361	7.884	ppbv	99
80) Naphthalene,2-methyl-	14.455	142	396207	7.566	ppbv	98
81) 1,2,4-Trichlorobenzene	13.439	180	344709	8.737	ppbv	100

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

Quant Time: Apr 18 22:55:20 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

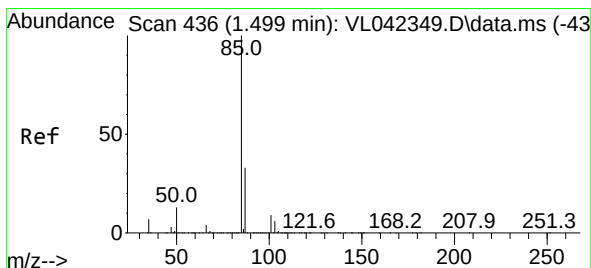
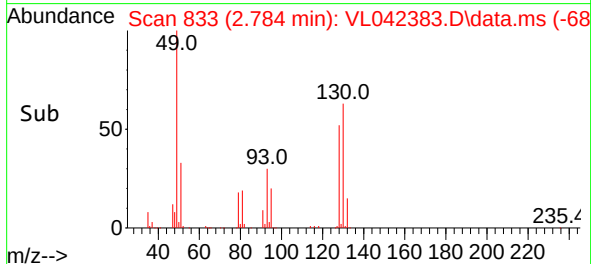
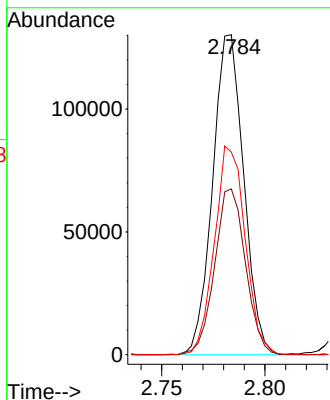
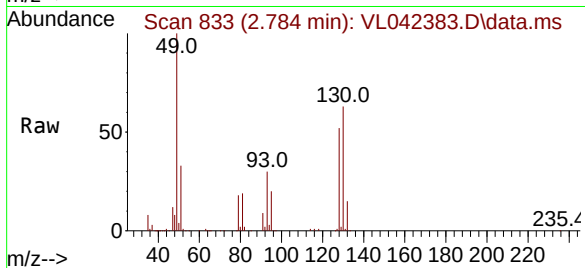




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

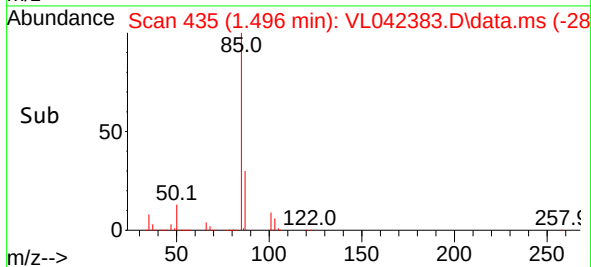
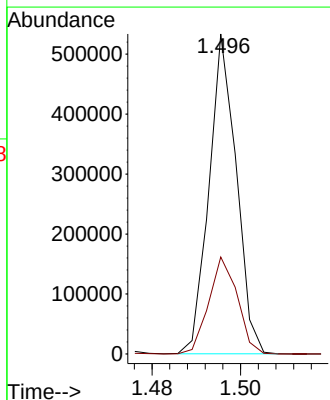
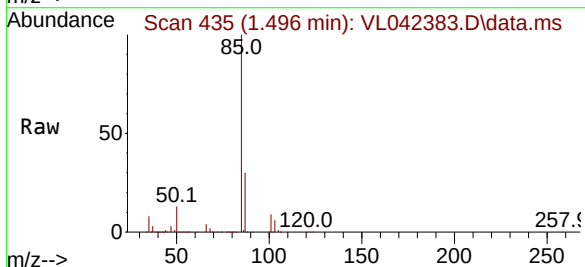
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

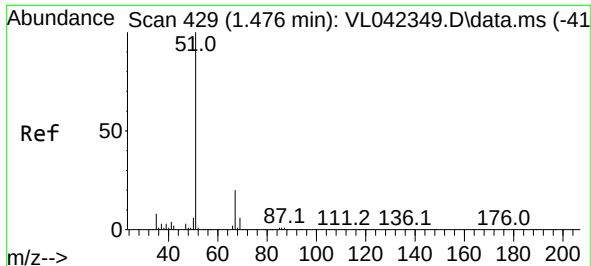
Tgt Ion: 49 Resp: 135964
Ion Ratio Lower Upper
49 100
128 51.7 22.8 68.4
130 64.8 29.3 88.0



#2
Dichlorodifluoromethane
Concen: 9.472 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 85 Resp: 227548
Ion Ratio Lower Upper
85 100
87 30.3 26.6 39.8

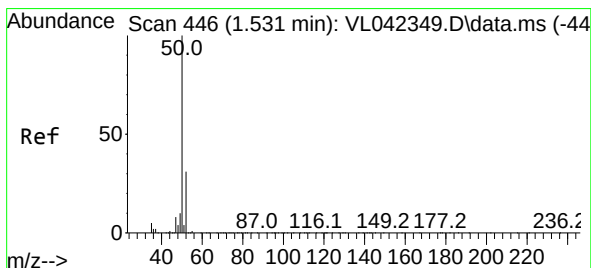
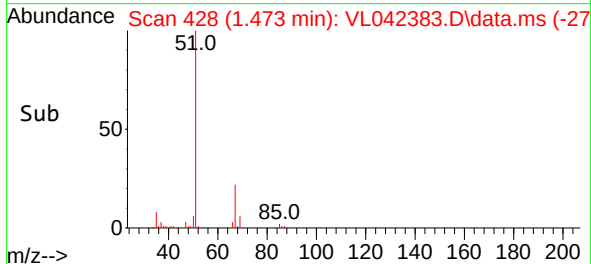
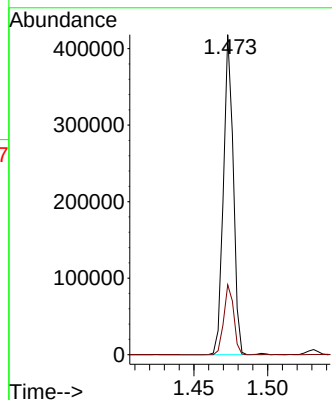
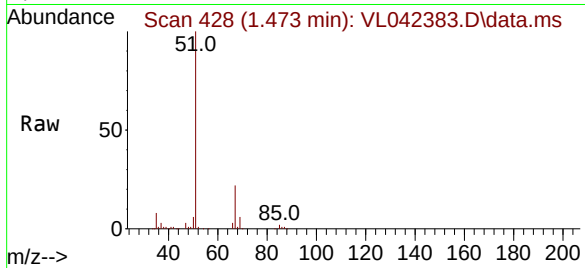




#3
Chlorodifluoromethane
Concen: 8.543 ppbv
RT: 1.473 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

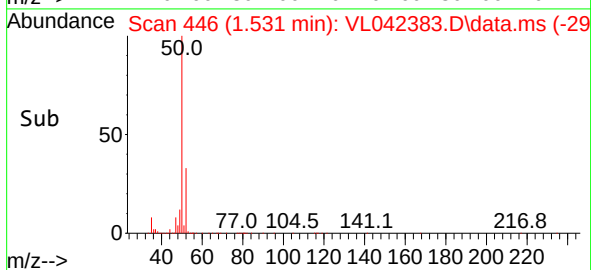
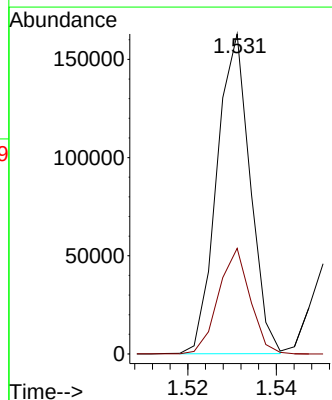
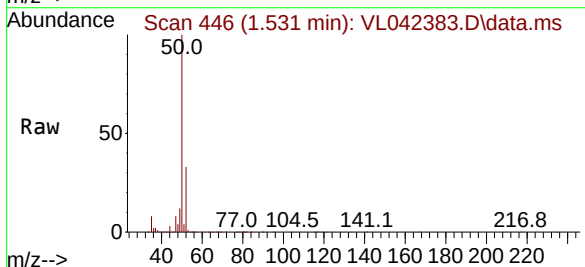
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

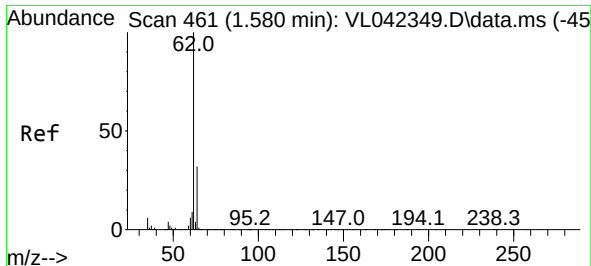
Tgt Ion: 51 Resp: 195422
Ion Ratio Lower Upper
51 100
67 22.1 16.2 24.4



#4
Chloromethane
Concen: 8.929 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 50 Resp: 84884
Ion Ratio Lower Upper
50 100
52 33.0 24.7 37.1

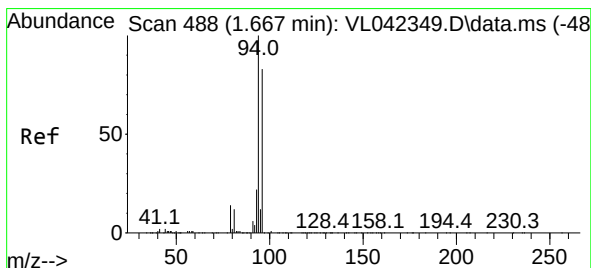
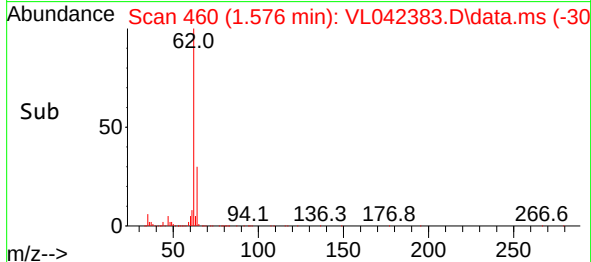
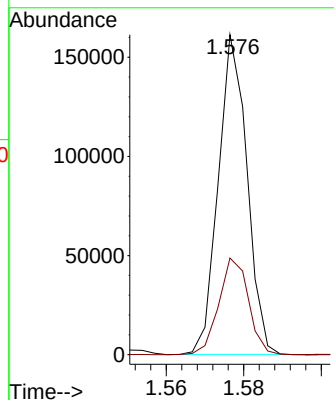
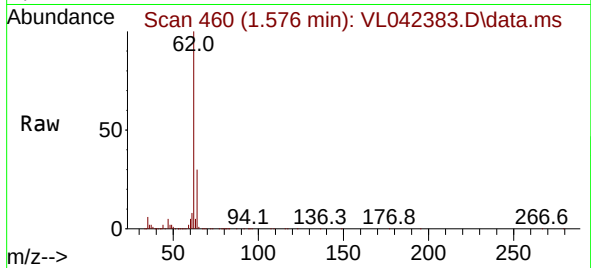




#5
 Vinyl Chloride
 Concen: 8.003 ppbv
 RT: 1.576 min Scan# 460
 Delta R.T. -0.003 min
 Lab File: VL042383.D
 Acq: 18 Apr 2025 10:23

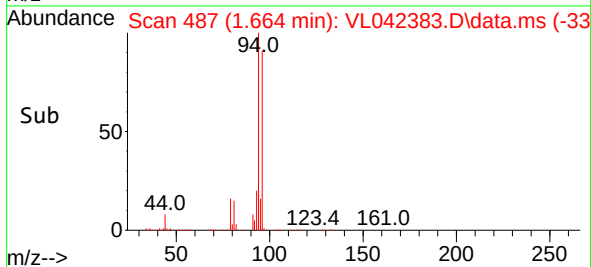
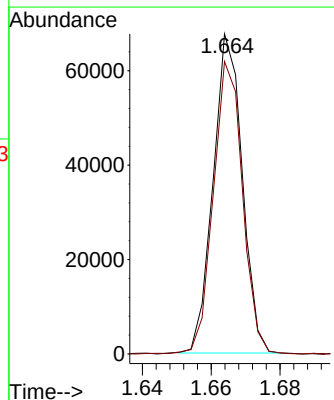
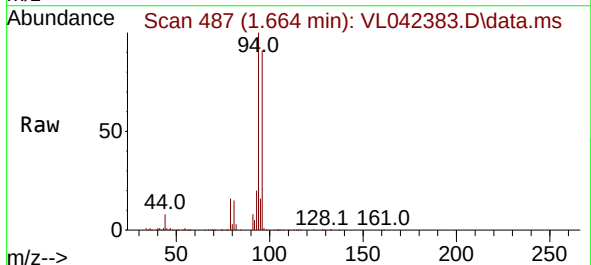
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

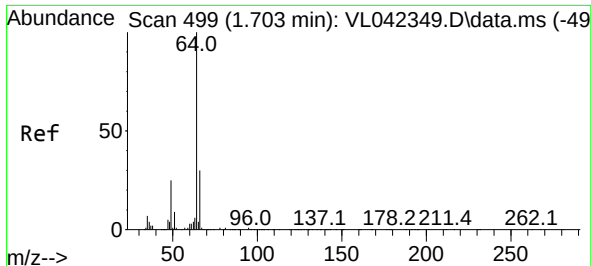
Tgt Ion: 62 Resp: 82816
 Ion Ratio Lower Upper
 62 100
 64 30.2 25.4 38.0



#6
 Bromomethane
 Concen: 8.916 ppbv
 RT: 1.664 min Scan# 487
 Delta R.T. -0.003 min
 Lab File: VL042383.D
 Acq: 18 Apr 2025 10:23

Tgt Ion: 94 Resp: 39633
 Ion Ratio Lower Upper
 94 100
 96 91.3 66.2 99.2

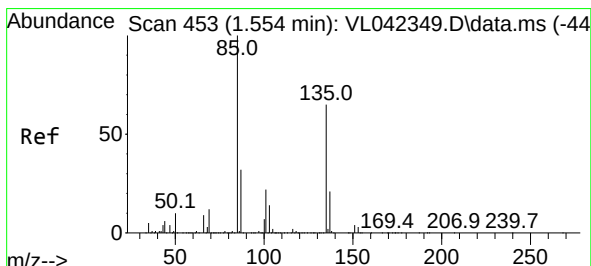
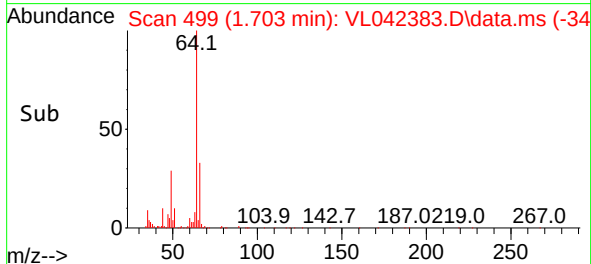
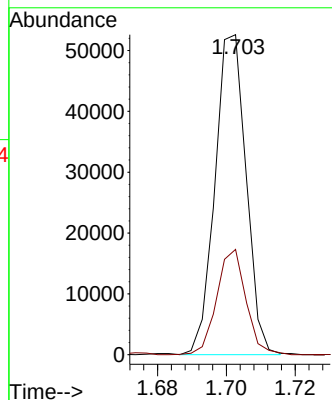
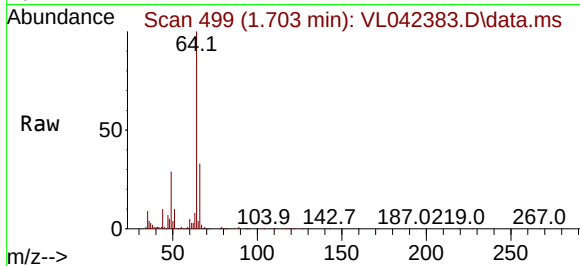




#7
Chloroethane
Concen: 8.836 ppbv
RT: 1.703 min Scan# 499
Delta R.T. 0.000 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

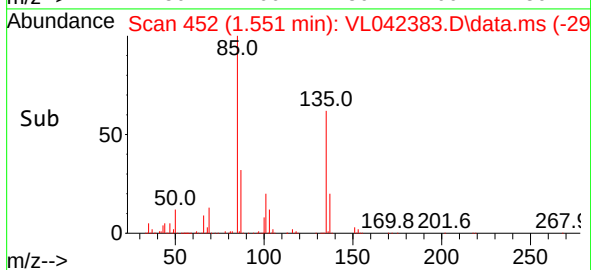
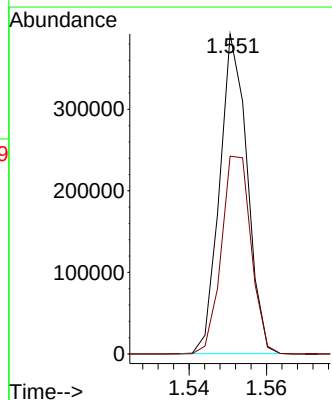
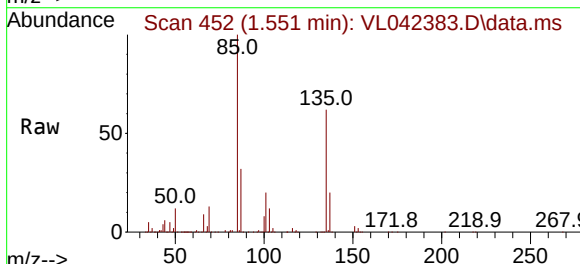
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

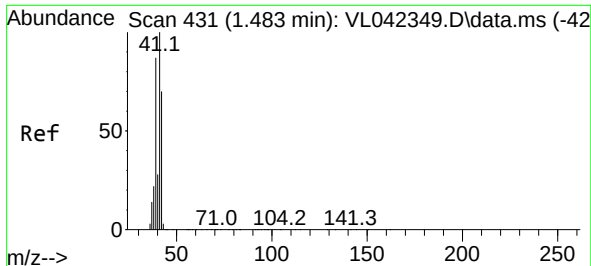
Tgt Ion: 64 Resp: 33067
Ion Ratio Lower Upper
64 100
66 32.9 24.6 37.0



#8
Dichlorotetrafluoroethane
Concen: 9.373 ppbv
RT: 1.551 min Scan# 452
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 85 Resp: 193310
Ion Ratio Lower Upper
85 100
135 67.2 52.2 78.2





#9

Propene

Concen: 7.641 ppbv

RT: 1.483 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL042383.D

Acq: 18 Apr 2025 10:23

Instrument :

MSVOA_1

ClientSampleId :

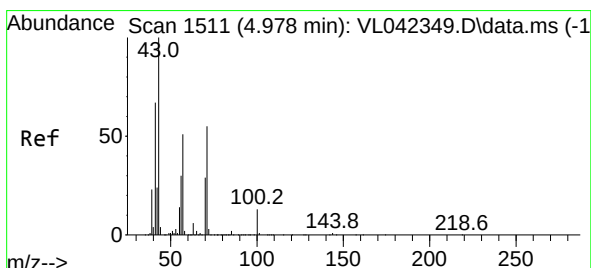
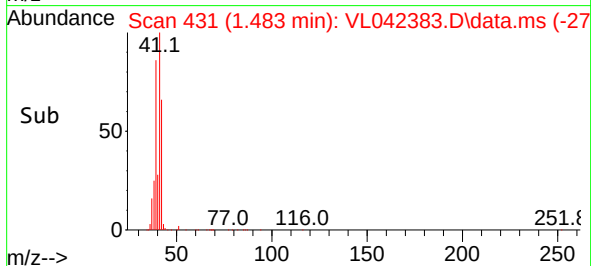
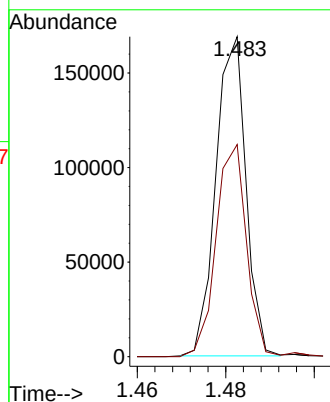
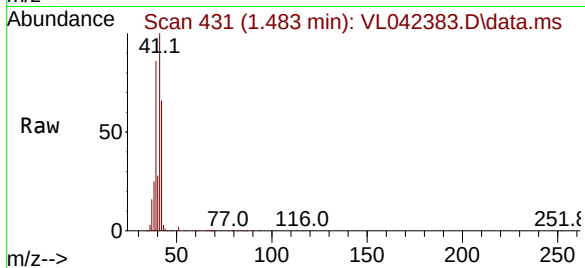
VSTDCCC010

Tgt Ion: 41 Resp: 79602

Ion Ratio Lower Upper

41 100

42 68.6 56.2 84.4



#10

Heptane

Concen: 7.242 ppbv

RT: 4.968 min Scan# 1508

Delta R.T. -0.010 min

Lab File: VL042383.D

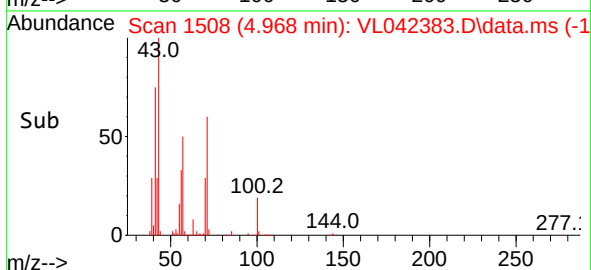
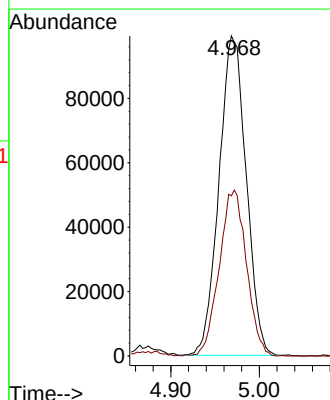
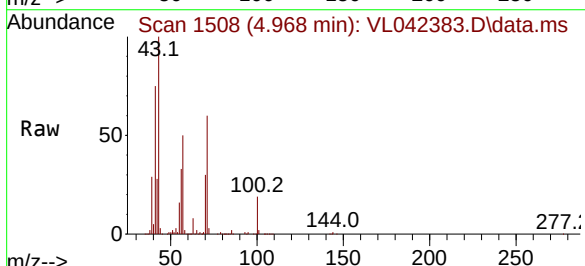
Acq: 18 Apr 2025 10:23

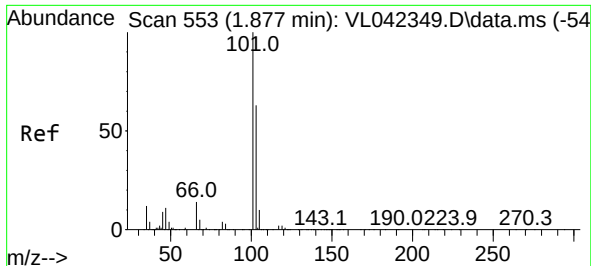
Tgt Ion: 43 Resp: 211969

Ion Ratio Lower Upper

43 100

57 52.0 39.9 59.9

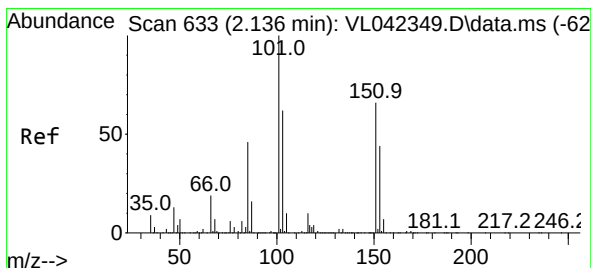
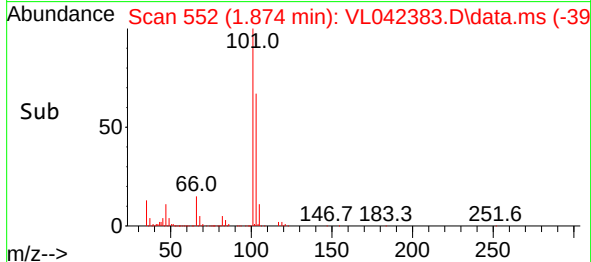
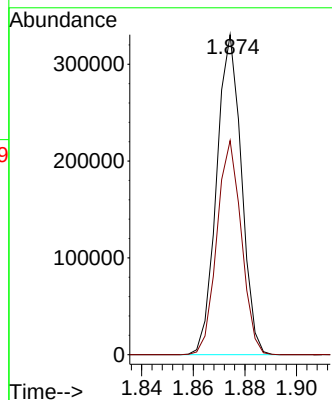
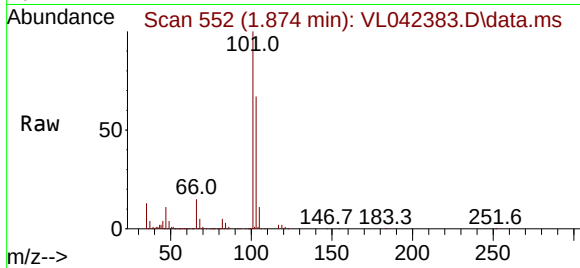




#11
 Trichlorofluoromethane
 Concen: 9.663 ppbv
 RT: 1.874 min Scan# 511
 Delta R.T. -0.003 min
 Lab File: VL042383.D
 Acq: 18 Apr 2025 10:23

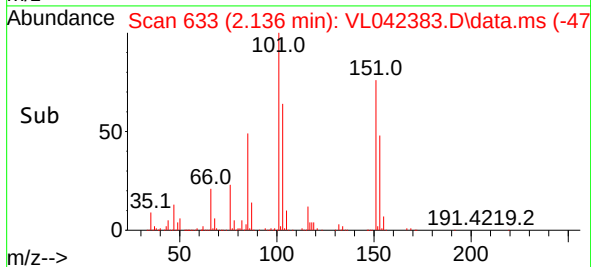
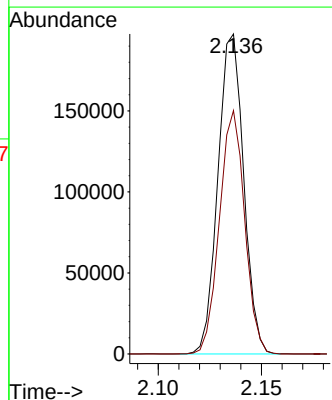
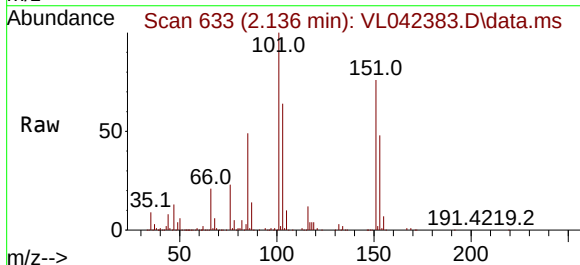
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

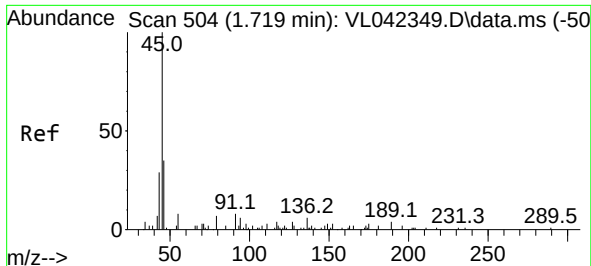
Tgt Ion:101 Resp: 220733
 Ion Ratio Lower Upper
 101 100
 103 66.9 50.1 75.1



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.158 ppbv
 RT: 2.136 min Scan# 633
 Delta R.T. 0.000 min
 Lab File: VL042383.D
 Acq: 18 Apr 2025 10:23

Tgt Ion:101 Resp: 171052
 Ion Ratio Lower Upper
 101 100
 151 74.6 57.0 85.6

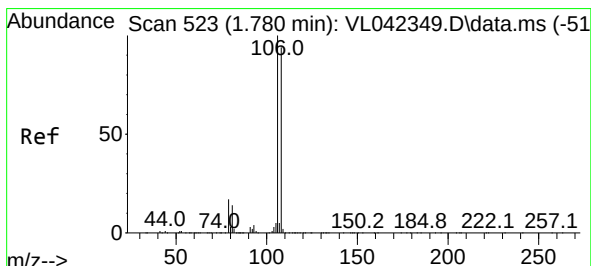
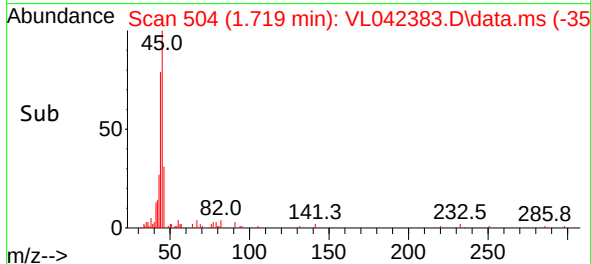
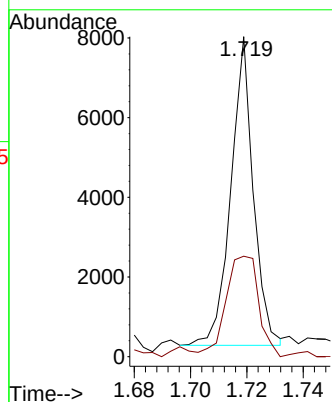
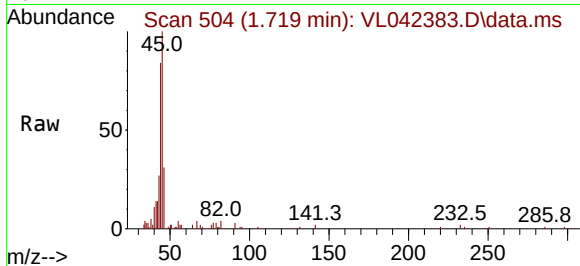




#13
Ethanol
Concen: 2.592 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

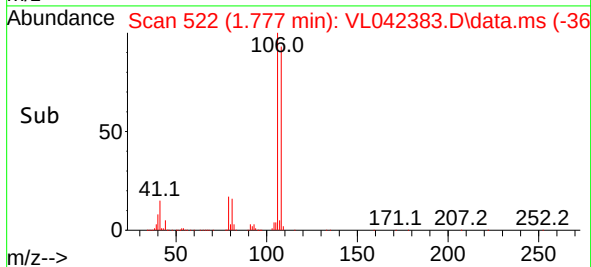
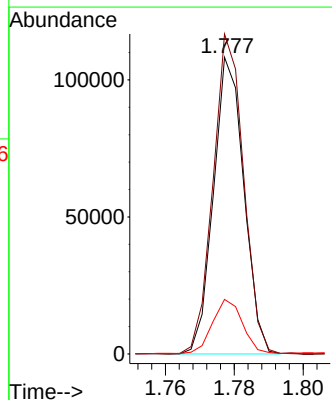
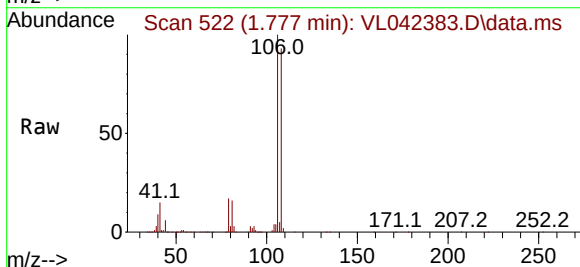
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

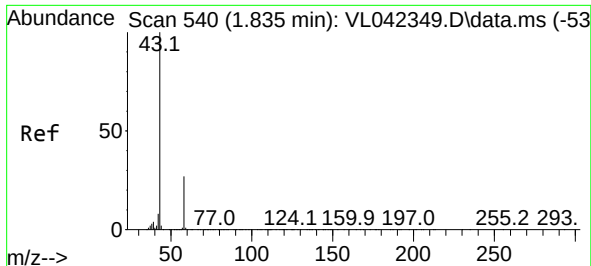
Tgt Ion: 45 Resp: 4291
Ion Ratio Lower Upper
45 100
46 51.9 21.9 87.7



#14
Bromoethene
Concen: 9.442 ppbv
RT: 1.777 min Scan# 522
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 108 Resp: 66481
Ion Ratio Lower Upper
108 100
106 108.2 85.9 128.9
79 19.6 13.9 20.9

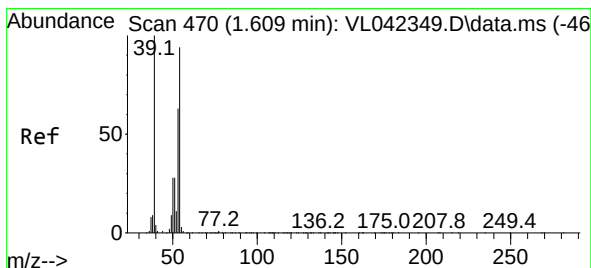
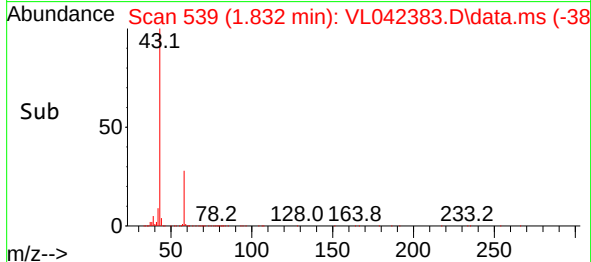
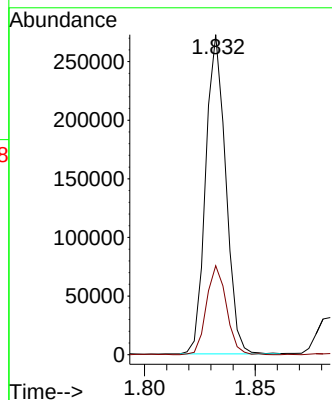
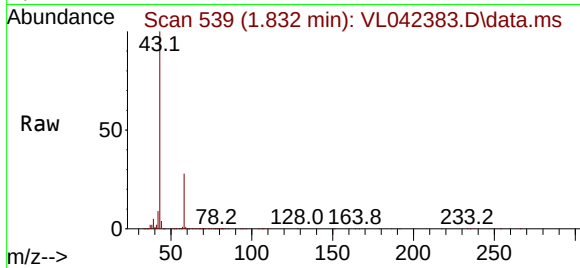




#15
Acetone
Concen: 7.732 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

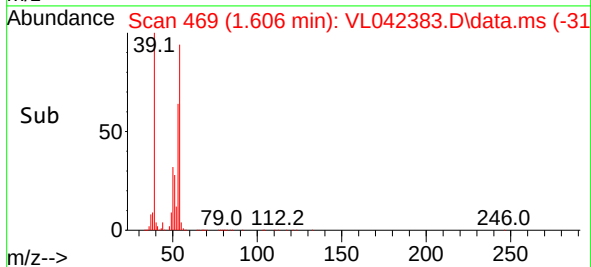
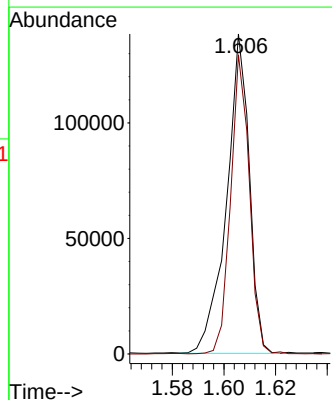
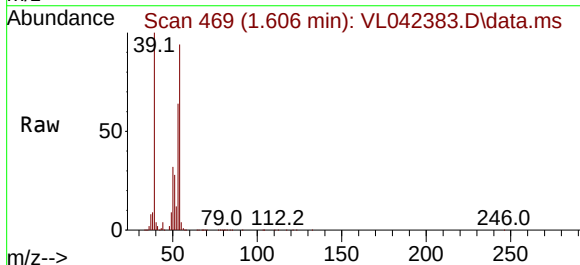
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

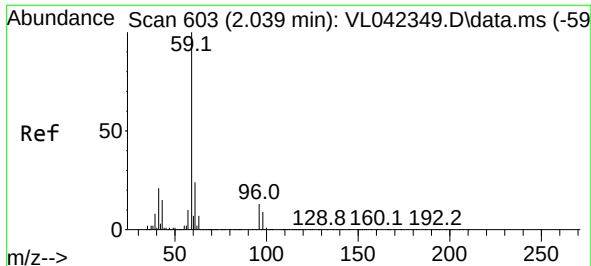
Tgt Ion: 43 Resp: 172096
Ion Ratio Lower Upper
43 100
58 28.0 22.4 33.6



#16
1,3-Butadiene
Concen: 7.945 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 39 Resp: 84576
Ion Ratio Lower Upper
39 100
54 77.5 64.9 97.3





#17

tert-Butyl alcohol

Concen: 8.353 ppbv

RT: 2.036 min Scan# 603

Delta R.T. -0.003 min

Lab File: VL042383.D

Acq: 18 Apr 2025 10:23

Instrument :

MSVOA_L

ClientSampleId :

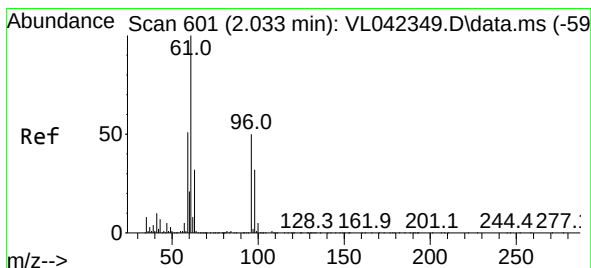
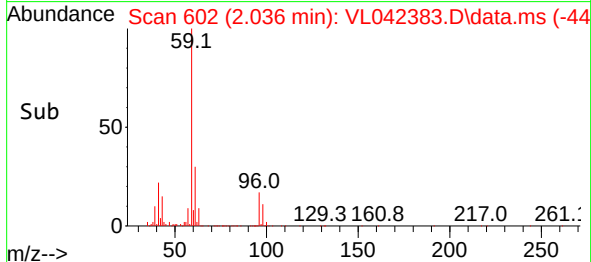
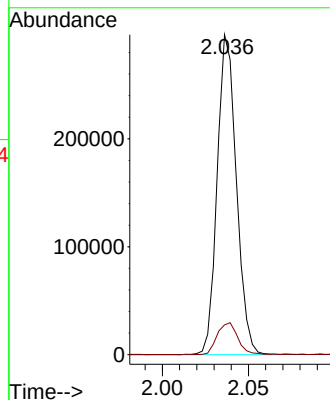
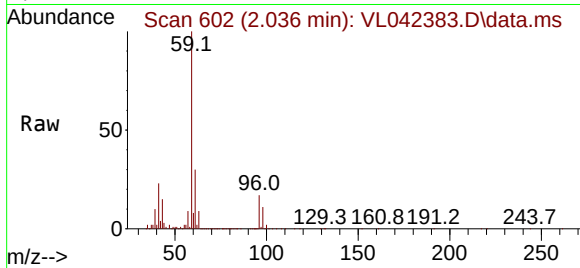
VSTDCCC010

Tgt Ion: 59 Resp: 230418

Ion Ratio Lower Upper

59 100

57 11.0 8.7 13.1



#18

1,1-Dichloroethene

Concen: 9.121 ppbv

RT: 2.030 min Scan# 600

Delta R.T. -0.003 min

Lab File: VL042383.D

Acq: 18 Apr 2025 10:23

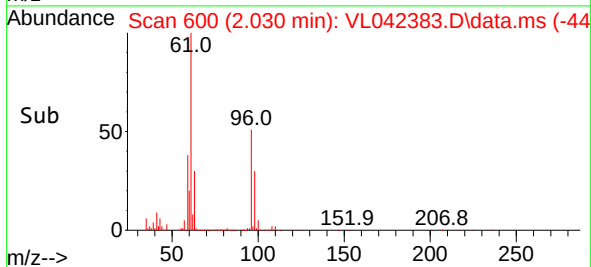
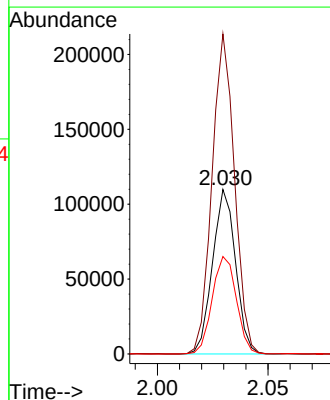
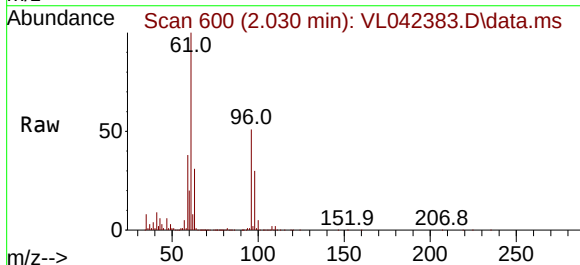
Tgt Ion: 96 Resp: 79587

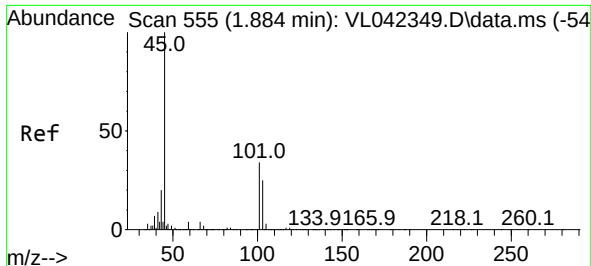
Ion Ratio Lower Upper

96 100

61 194.6 160.2 240.2

98 59.2 51.0 76.4

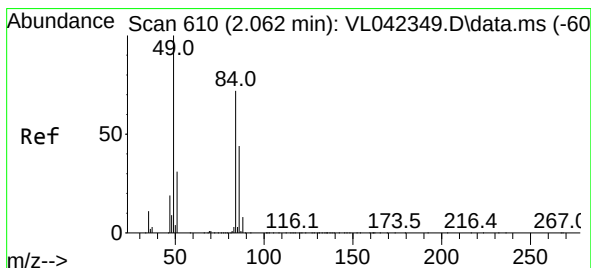
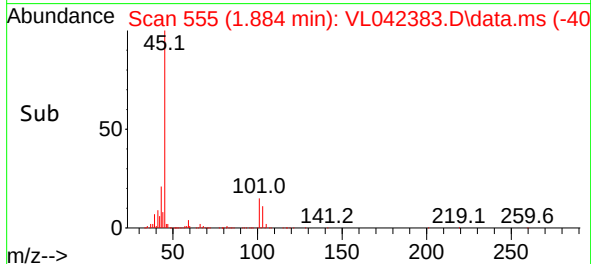
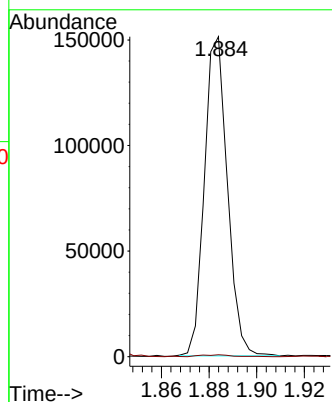
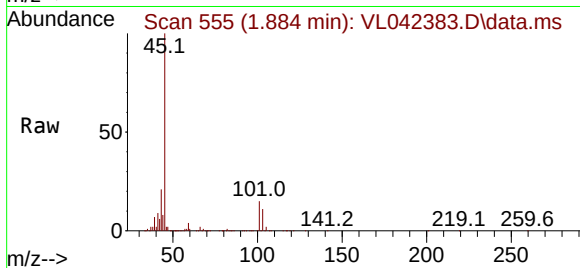




#19
Isopropyl Alcohol
Concen: 8.208 ppbv
RT: 1.884 min Scan# 51
Delta R.T. 0.000 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

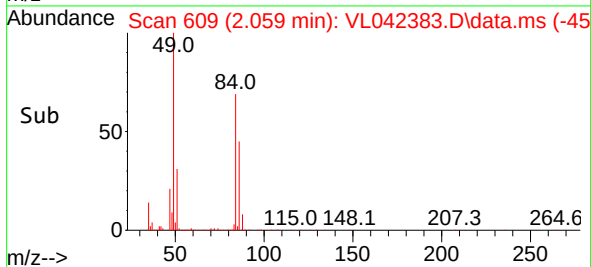
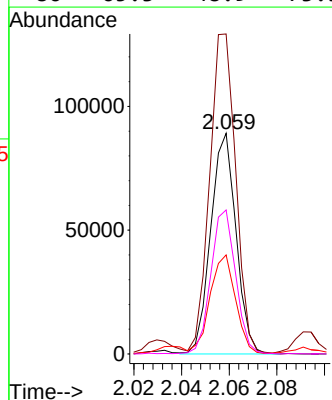
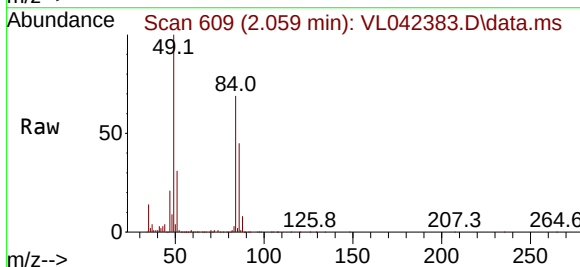
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

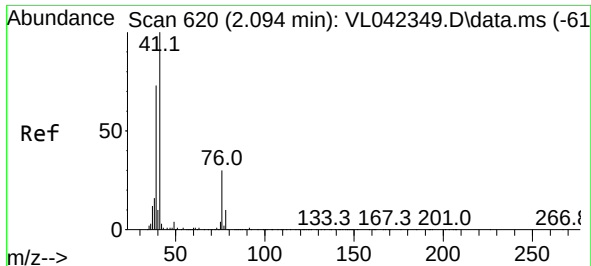
Tgt Ion: 45 Resp: 101483
Ion Ratio Lower Upper
45 100
58 47.5 34.5 51.7



#20
Methylene Chloride
Concen: 7.556 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 84 Resp: 65868
Ion Ratio Lower Upper
84 100
49 143.9 111.6 167.4
51 44.2 35.1 52.7
86 65.3 48.9 73.3

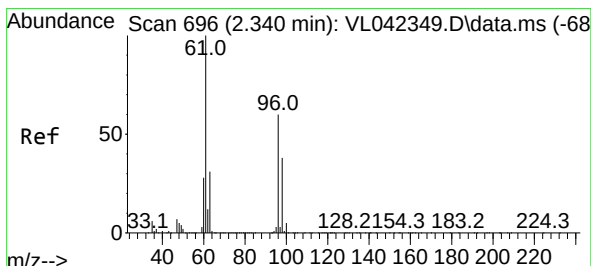
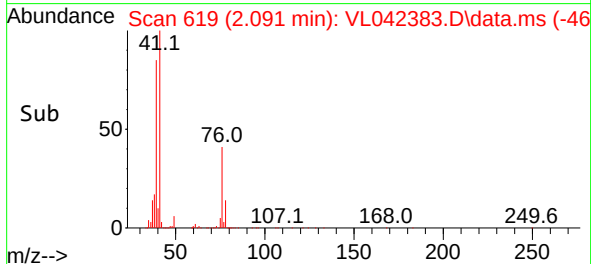
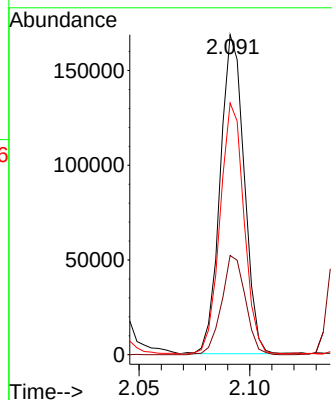
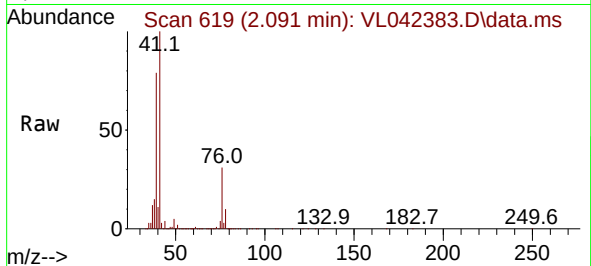




#21
 Allyl Chloride
 Concen: 8.263 ppbv
 RT: 2.091 min Scan# 619
 Delta R.T. -0.003 min
 Lab File: VL042383.D
 Acq: 18 Apr 2025 10:23

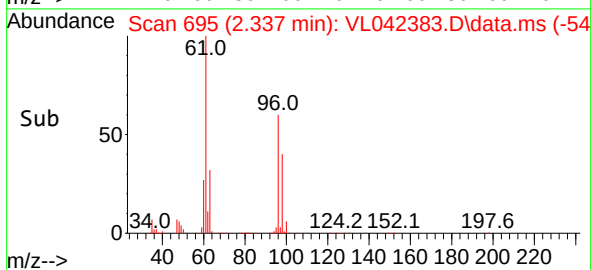
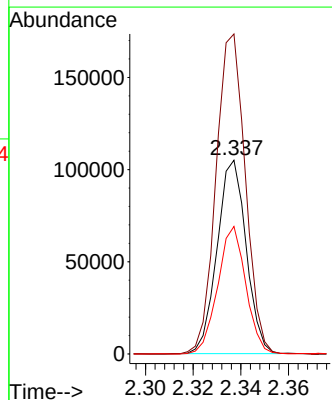
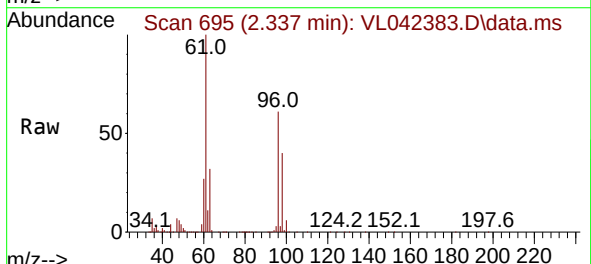
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

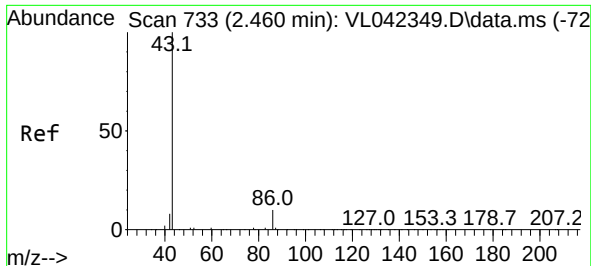
Tgt Ion: 41 Resp: 126980
 Ion Ratio Lower Upper
 41 100
 76 30.8 24.8 37.2
 39 78.2 60.6 90.8



#22
 trans-1,2-Dichloroethene
 Concen: 8.938 ppbv
 RT: 2.337 min Scan# 695
 Delta R.T. -0.003 min
 Lab File: VL042383.D
 Acq: 18 Apr 2025 10:23

Tgt Ion: 96 Resp: 88798
 Ion Ratio Lower Upper
 96 100
 61 165.4 133.7 200.5
 98 65.9 50.3 75.5

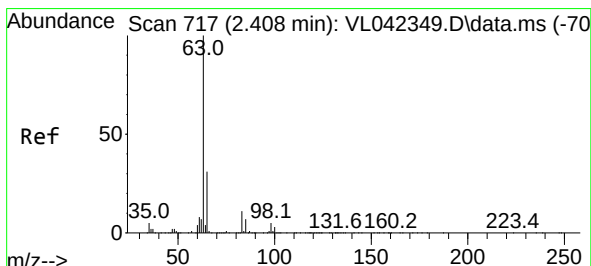
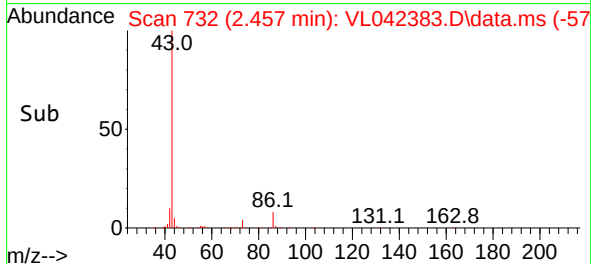
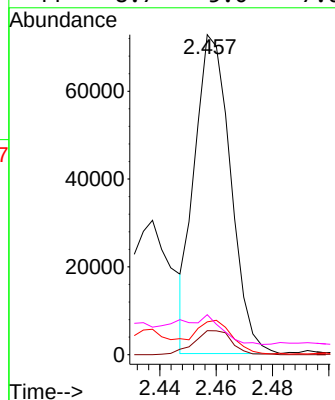
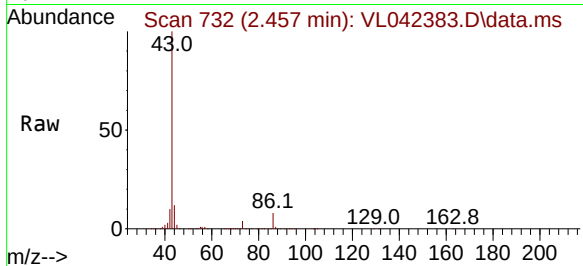




#23
 Vinyl Acetate
 Concen: 7.119 ppbv
 RT: 2.457 min Scan# 716
 Delta R.T. -0.003 min
 Lab File: VL042383.D
 Acq: 18 Apr 2025 10:23

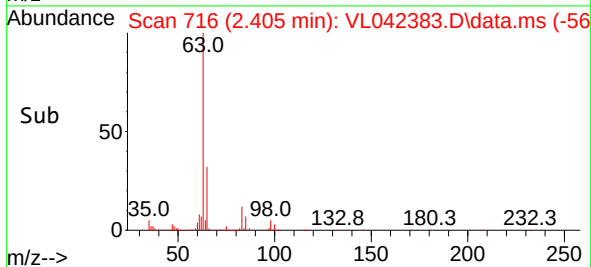
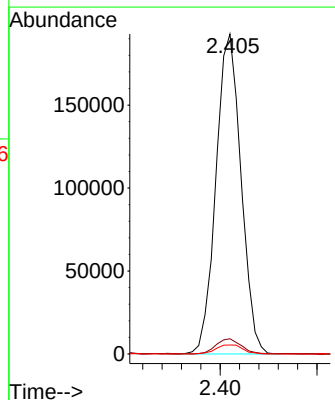
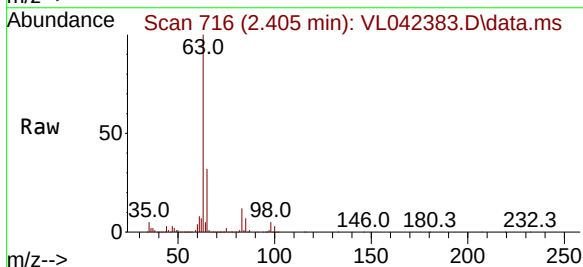
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDCCC010

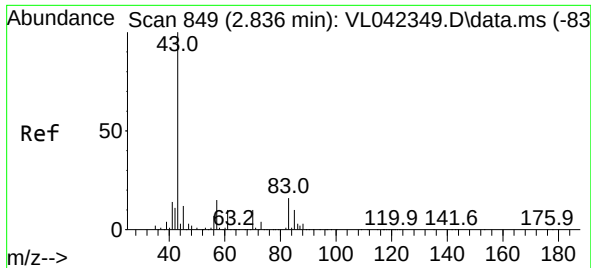
Tgt Ion:	43	Resp:	64135
Ion	Ratio	Lower	Upper
43	100		
86	7.5	6.5	9.7
42	9.8	7.8	11.8
44	8.7	5.0	7.6



#24
 1,1-Dichloroethane
 Concen: 9.191 ppbv
 RT: 2.405 min Scan# 716
 Delta R.T. -0.003 min
 Lab File: VL042383.D
 Acq: 18 Apr 2025 10:23

Tgt Ion:	63	Resp:	173462
Ion	Ratio	Lower	Upper
63	100		
98	4.7	2.3	6.8
100	2.8	1.6	4.8



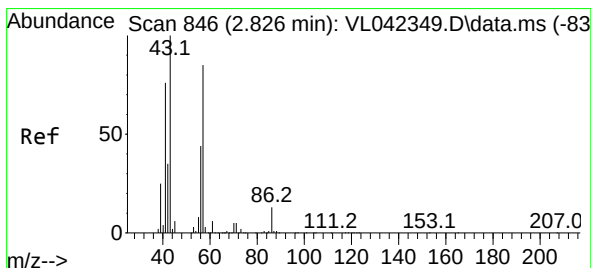
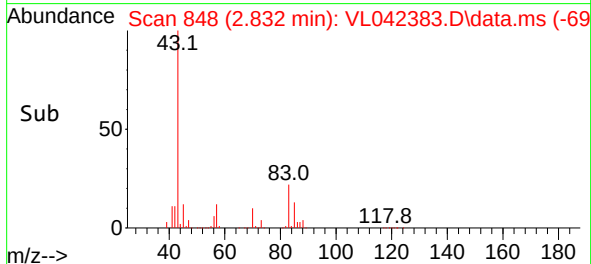
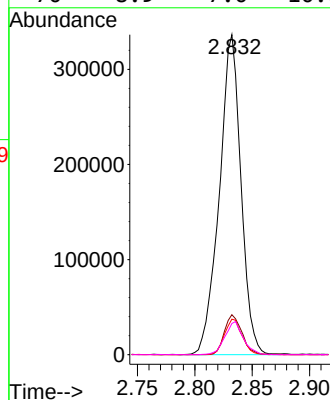
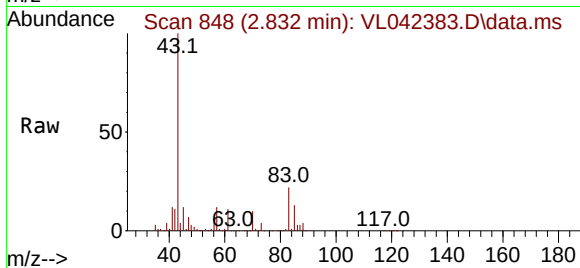


#25
Ethyl Acetate
Concen: 8.045 ppbv
RT: 2.832 min Scan# 844
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tgt Ion: 43 Resp: 441499

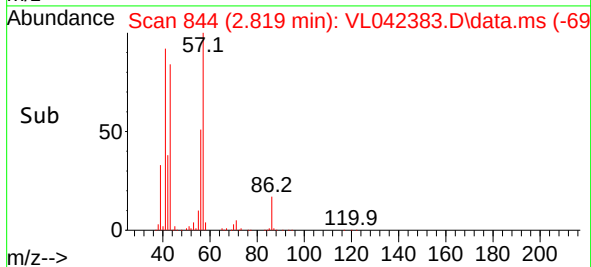
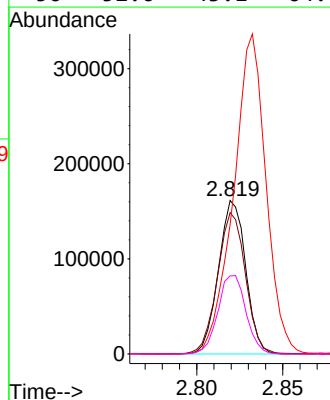
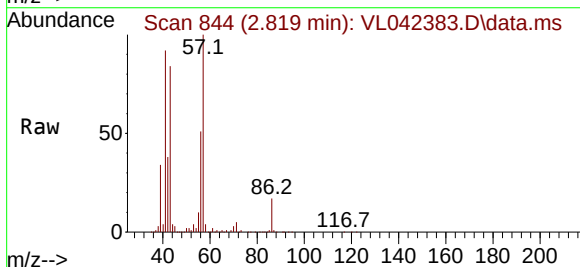
Ion	Ratio	Lower	Upper
43	100		
45	10.2	8.3	12.5
61	9.0	7.3	10.9
70	8.9	7.0	10.6

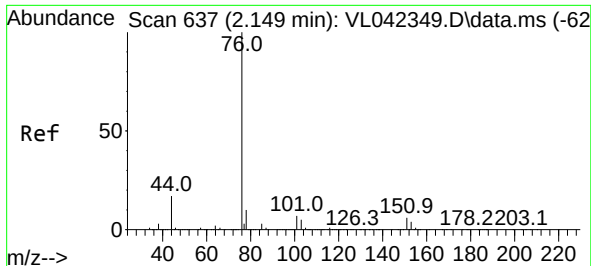


#26
Hexane
Concen: 7.989 ppbv
RT: 2.819 min Scan# 844
Delta R.T. -0.006 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 57 Resp: 177427

Ion	Ratio	Lower	Upper
57	100		
41	95.1	77.9	116.9
43	249.3	208.4	312.6
56	52.6	43.1	64.7

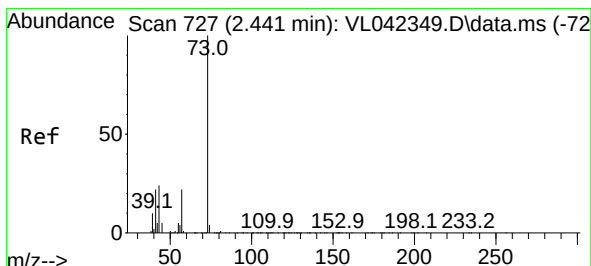
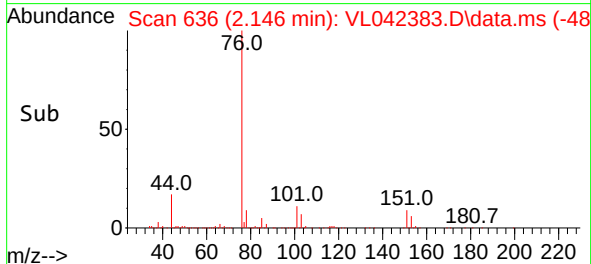
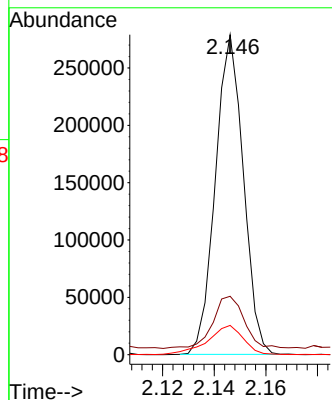
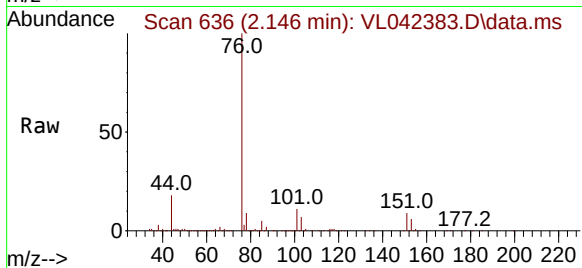




#27
Carbon Disulfide
Concen: 8.818 ppbv
RT: 2.146 min Scan# 61
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

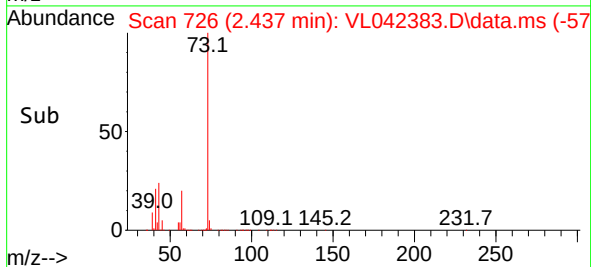
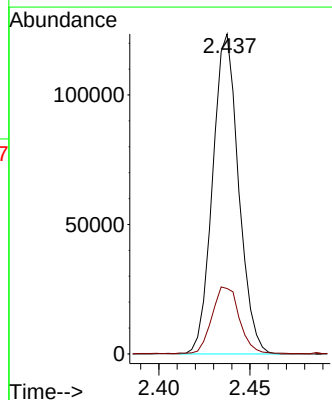
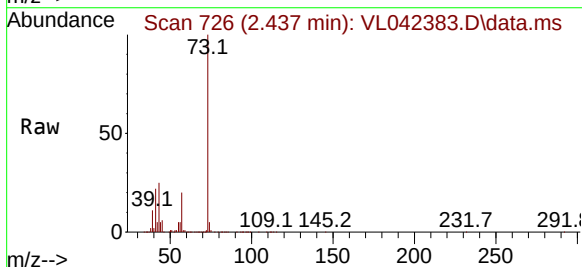
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

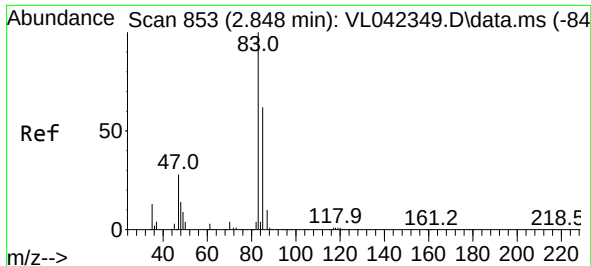
Tgt Ion: 76 Resp: 209681
Ion Ratio Lower Upper
76 100
44 17.8 15.5 23.3
78 11.8 9.3 13.9



#28
Methyl tert-Butyl Ether
Concen: 8.416 ppbv
RT: 2.437 min Scan# 726
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 73 Resp: 122464
Ion Ratio Lower Upper
73 100
57 22.3 21.3 31.9





#29

Chloroform

Concen: 9.453 ppbv

RT: 2.842 min Scan# 81

Delta R.T. -0.006 min

Lab File: VL042383.D

Acq: 18 Apr 2025 10:23

Instrument :

MSVOA_L

ClientSampleId :

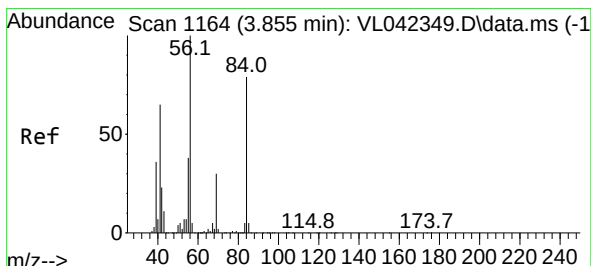
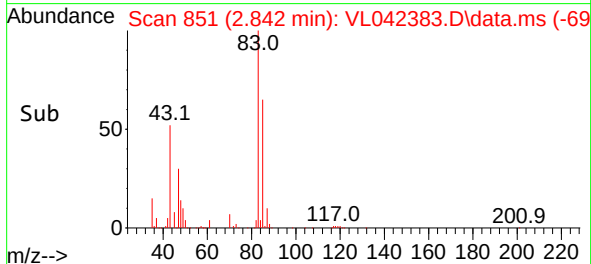
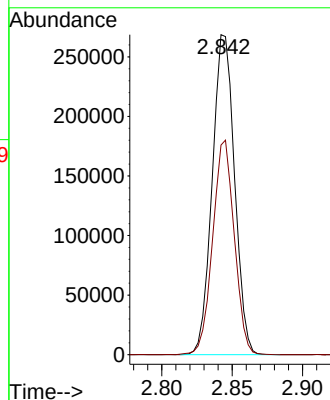
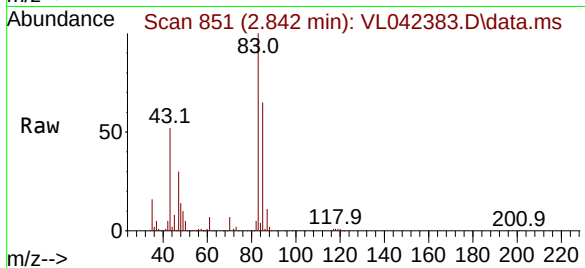
VSTDCCC010

Tgt Ion: 83 Resp: 296747

Ion Ratio Lower Upper

83 100

85 65.5 50.0 75.0



#30

Cyclohexane

Concen: 8.673 ppbv

RT: 3.849 min Scan# 1162

Delta R.T. -0.006 min

Lab File: VL042383.D

Acq: 18 Apr 2025 10:23

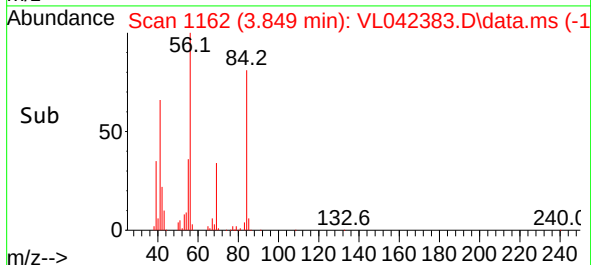
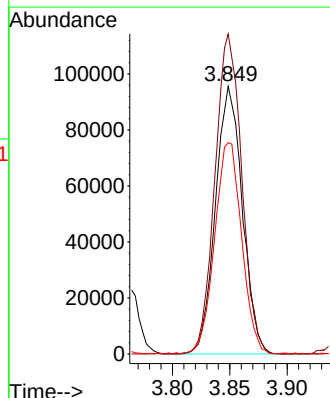
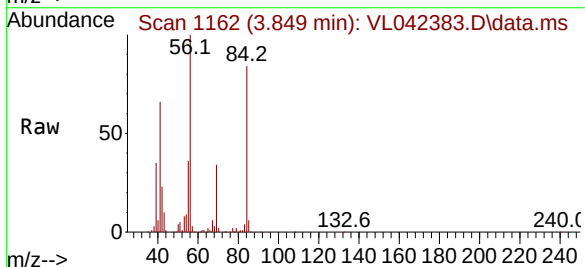
Tgt Ion: 84 Resp: 155716

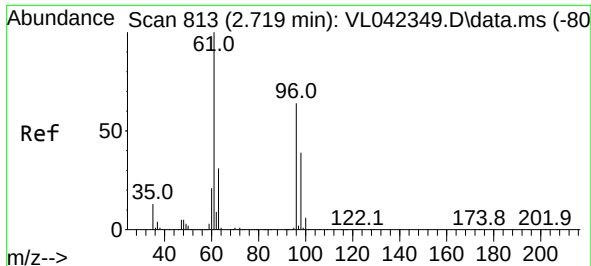
Ion Ratio Lower Upper

84 100

56 118.9 101.0 151.4

41 79.9 67.4 101.0

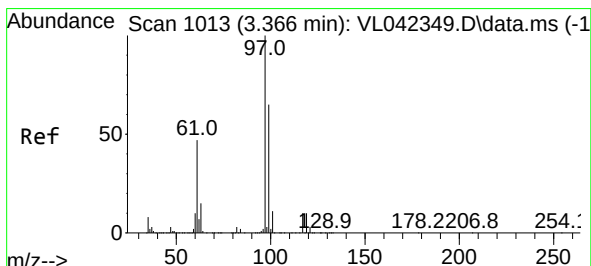
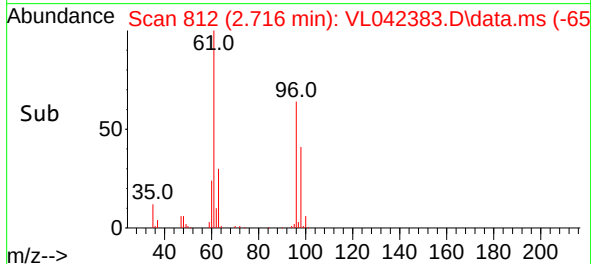
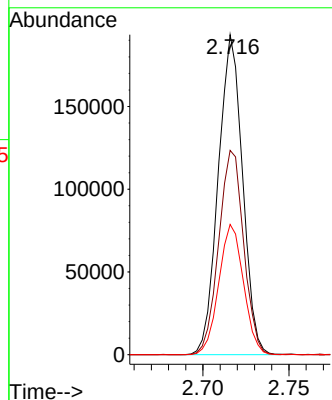
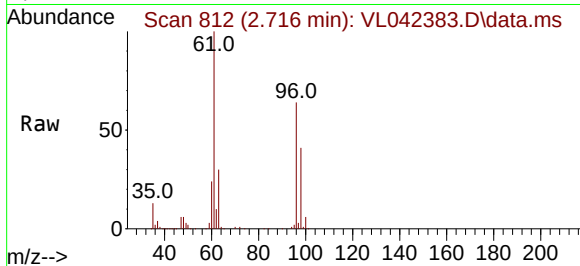




#31
 cis-1,2-Dichloroethene
 Concen: 9.000 ppbv
 RT: 2.716 min Scan# 81
 Delta R.T. -0.003 min
 Lab File: VL042383.D
 Acq: 18 Apr 2025 10:23

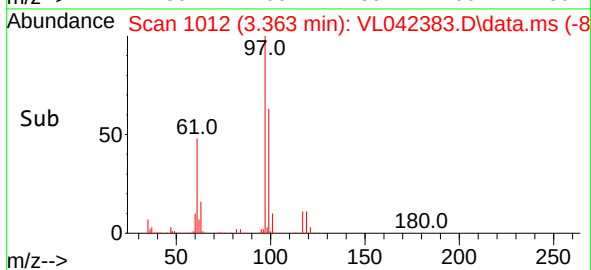
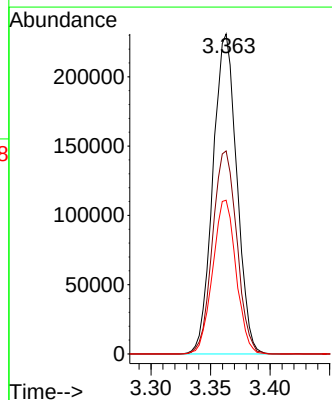
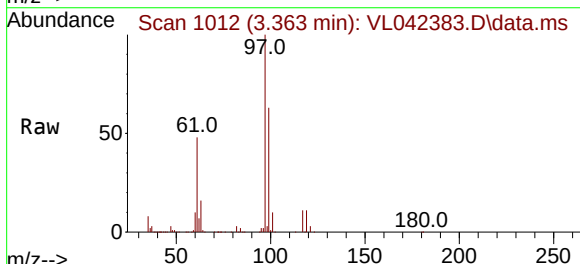
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

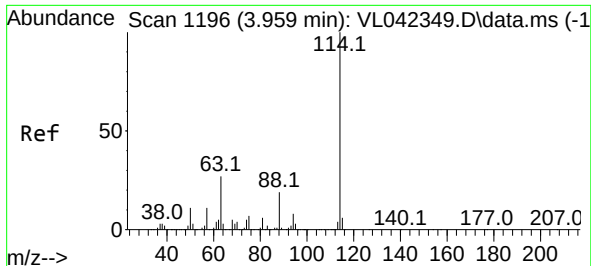
Tgt Ion: 61 Resp: 190037
 Ion Ratio Lower Upper
 61 100
 96 63.8 50.8 76.2
 98 40.7 30.9 46.3



#32
 1,1,1-Trichloroethane
 Concen: 9.097 ppbv
 RT: 3.363 min Scan# 1012
 Delta R.T. -0.003 min
 Lab File: VL042383.D
 Acq: 18 Apr 2025 10:23

Tgt Ion: 97 Resp: 321462
 Ion Ratio Lower Upper
 97 100
 99 64.5 51.0 76.4
 61 47.1 38.8 58.2

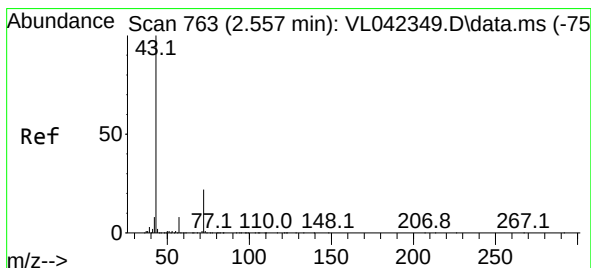
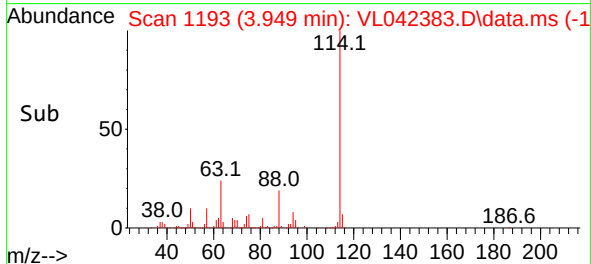
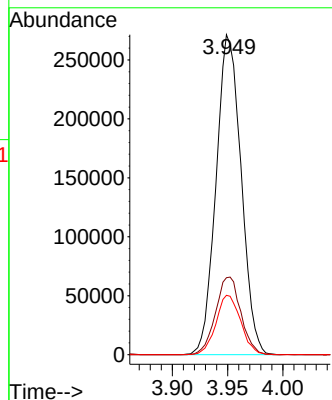
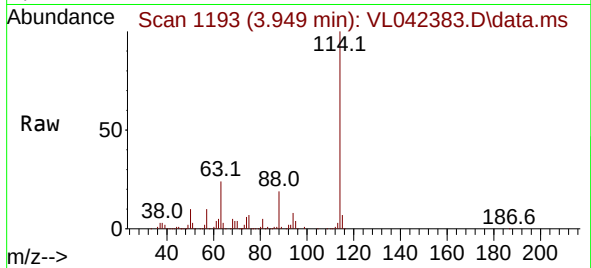




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.949 min Scan# 1196
Delta R.T. -0.010 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

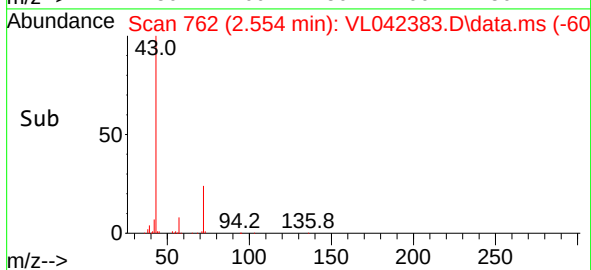
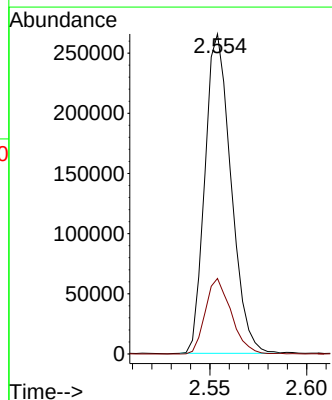
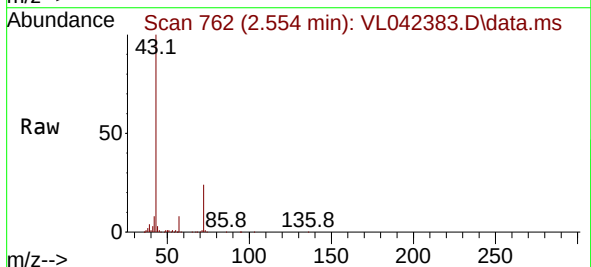
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

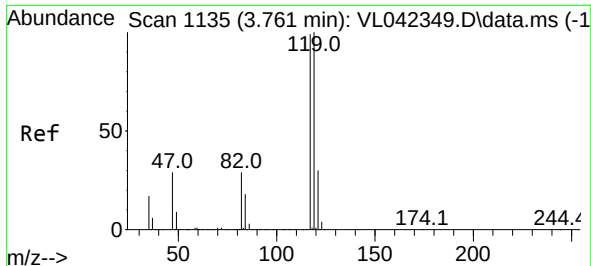
Tgt Ion:114 Resp: 427541
Ion Ratio Lower Upper
114 100
63 24.4 21.8 32.6
88 18.3 15.5 23.3



#34
2-Butanone
Concen: 7.367 ppbv
RT: 2.554 min Scan# 762
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 43 Resp: 249113
Ion Ratio Lower Upper
43 100
72 23.5 18.2 27.2

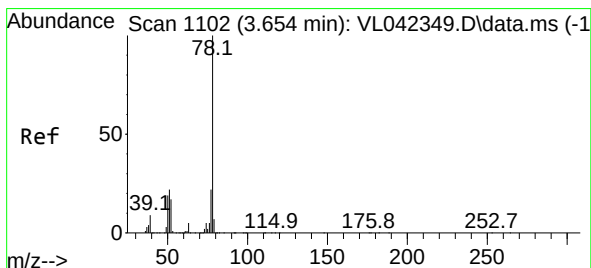
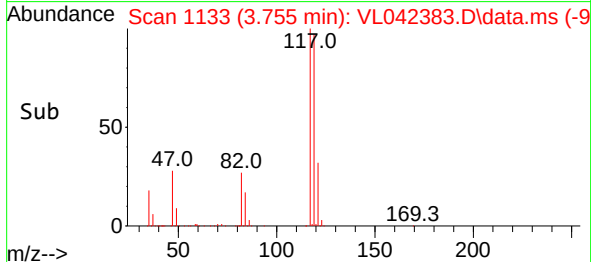
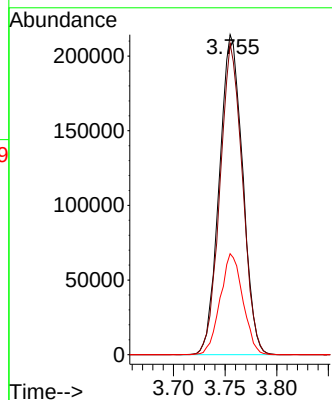
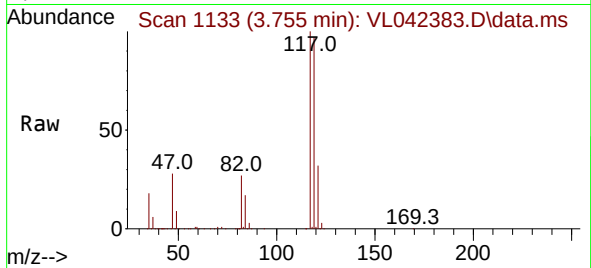




#35
Carbon Tetrachloride
Concen: 8.695 ppbv
RT: 3.755 min Scan# 1133
Delta R.T. -0.006 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

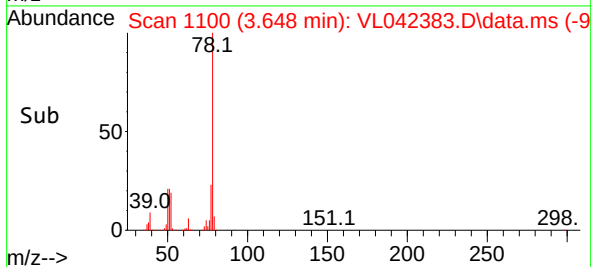
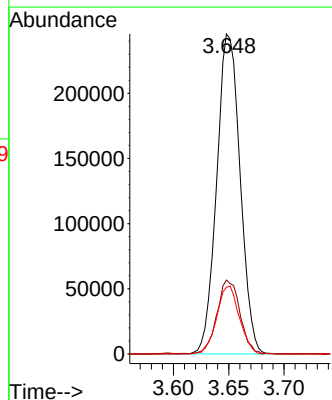
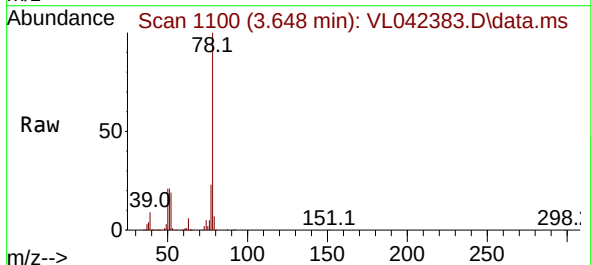
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

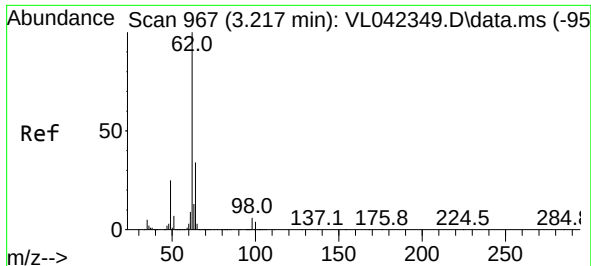
Tgt Ion:117 Resp: 336452
Ion Ratio Lower Upper
117 100
119 97.3 80.5 120.7
121 31.5 24.2 36.2



#36
Benzene
Concen: 7.842 ppbv
RT: 3.648 min Scan# 1100
Delta R.T. -0.006 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 78 Resp: 361650
Ion Ratio Lower Upper
78 100
77 23.0 17.4 26.0
50 20.9 15.5 23.3





#37

1,2-Dichloroethane

Concen: 8.638 ppbv

RT: 3.214 min Scan# 9

Delta R.T. -0.003 min

Lab File: VL042383.D

Acq: 18 Apr 2025 10:23

Instrument :

MSVOA_1

ClientSampleId :

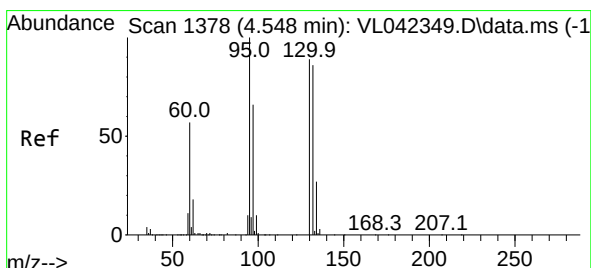
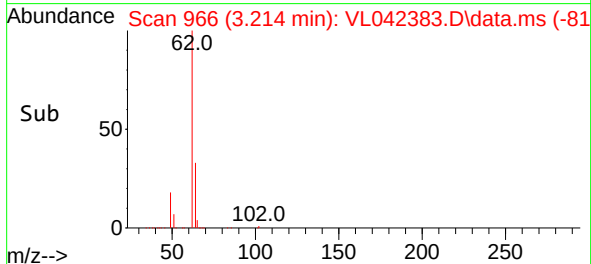
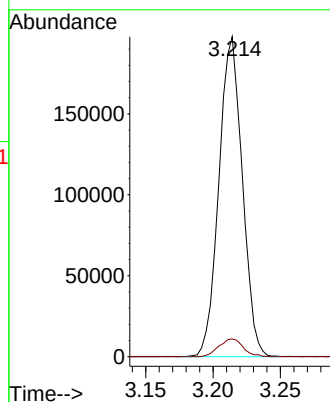
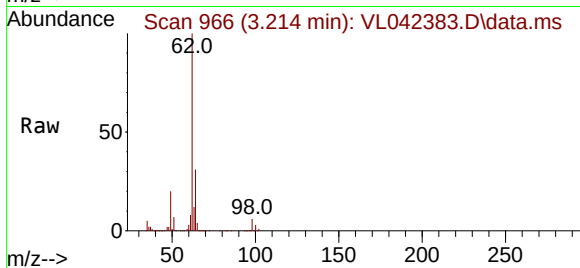
VSTDCCC010

Tgt Ion: 62 Resp: 239079

Ion Ratio Lower Upper

62 100

98 5.8 5.1 7.7



#38

Trichloroethene

Concen: 7.964 ppbv

RT: 4.541 min Scan# 1376

Delta R.T. -0.006 min

Lab File: VL042383.D

Acq: 18 Apr 2025 10:23

Tgt Ion:130 Resp: 160521

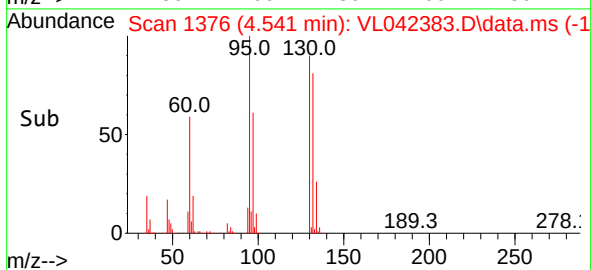
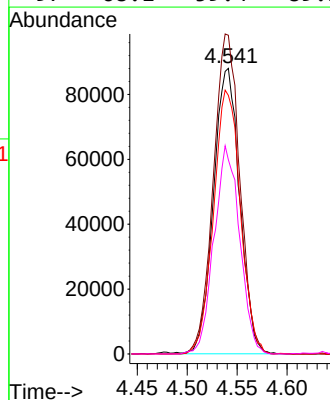
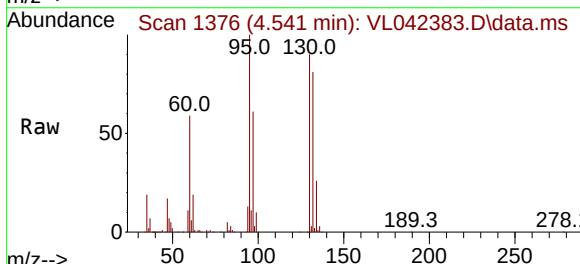
Ion Ratio Lower Upper

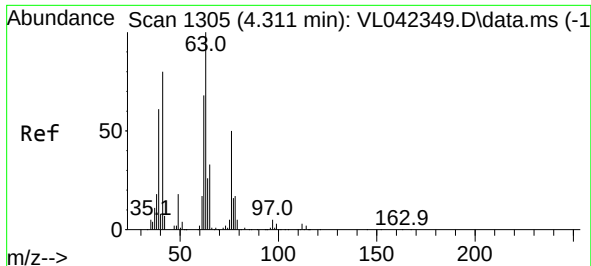
130 100

95 111.6 89.8 134.6

132 90.5 77.7 116.5

97 68.1 59.4 89.2





#39

1,2-Dichloropropane

Concen: 7.458 ppbv

RT: 4.305 min Scan# 11

Delta R.T. -0.006 min

Lab File: VL042383.D

Acq: 18 Apr 2025 10:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

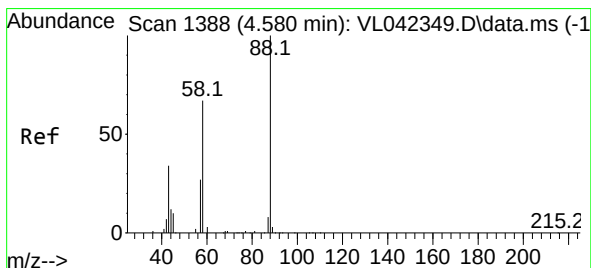
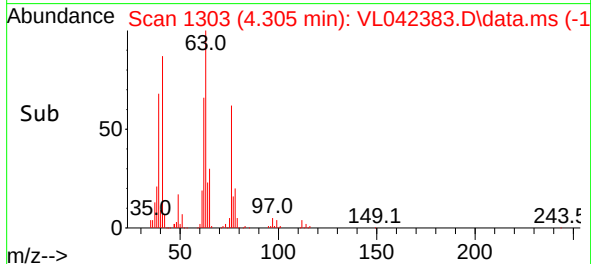
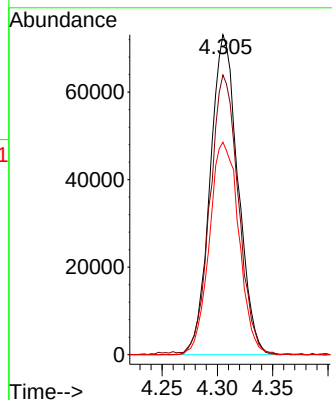
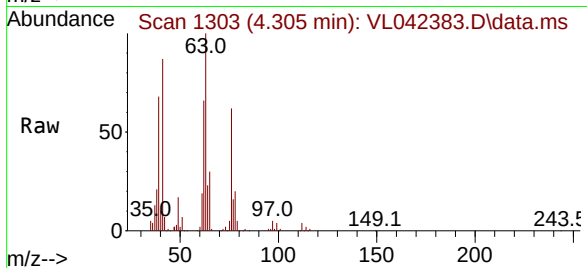
Tgt Ion: 63 Resp: 128161

Ion Ratio Lower Upper

63 100

41 87.2 64.2 96.2

62 66.4 54.3 81.5



#40

1,4-Dioxane

Concen: 6.962 ppbv

RT: 4.574 min Scan# 1386

Delta R.T. -0.006 min

Lab File: VL042383.D

Acq: 18 Apr 2025 10:23

Tgt Ion: 88 Resp: 65746

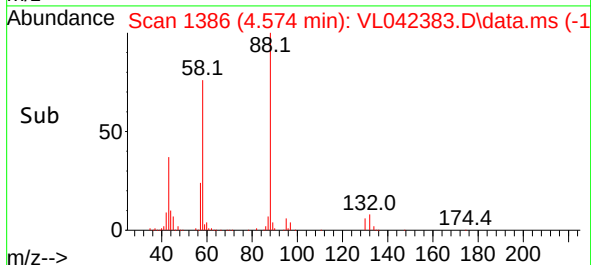
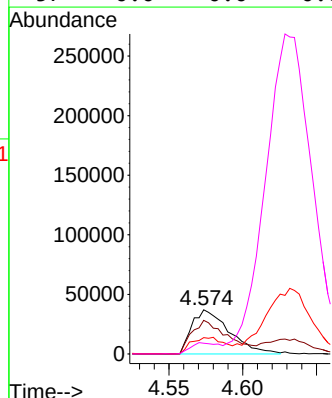
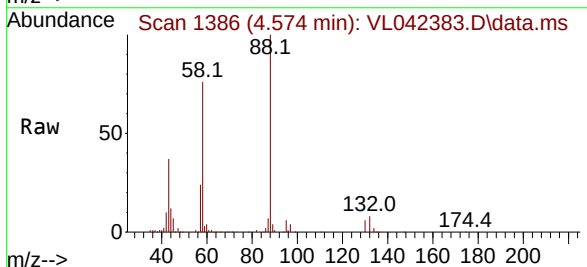
Ion Ratio Lower Upper

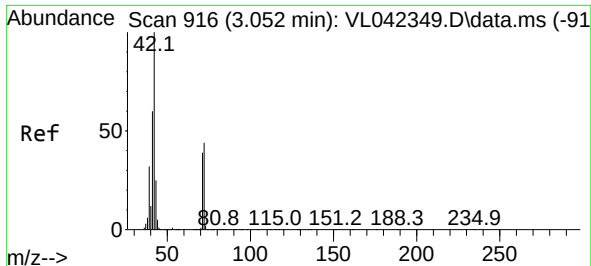
88 100

58 69.9 61.4 92.0

43 32.8 23.2 34.8

57 0.0 0.0 0.0

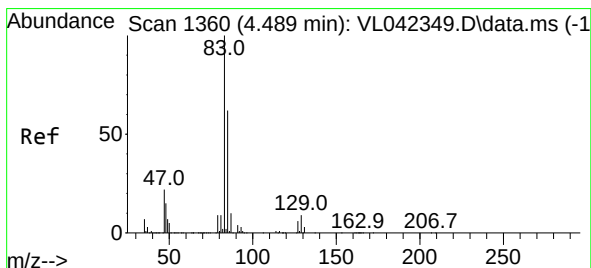
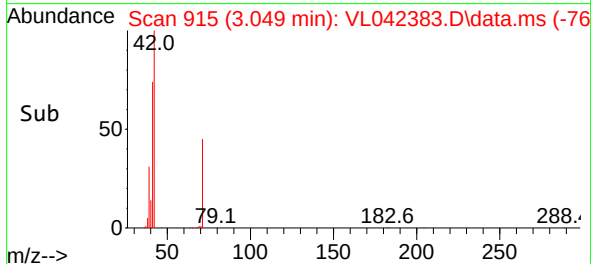
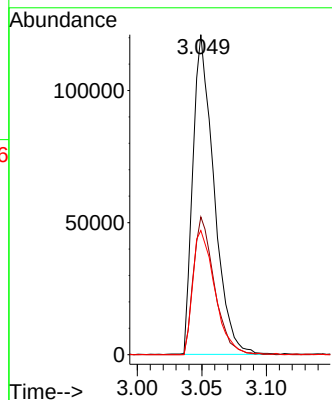
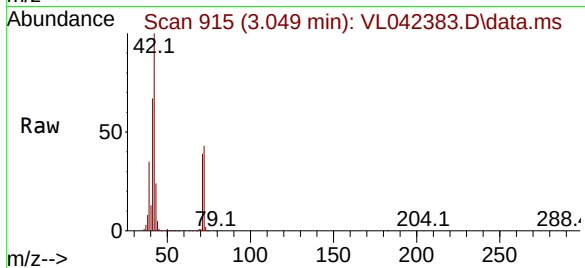




#41
Tetrahydrofuran
Concen: 6.984 ppbv
RT: 3.049 min Scan# 916
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

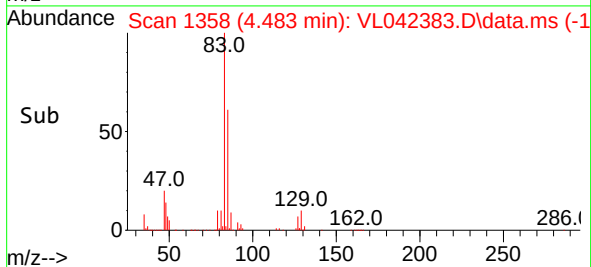
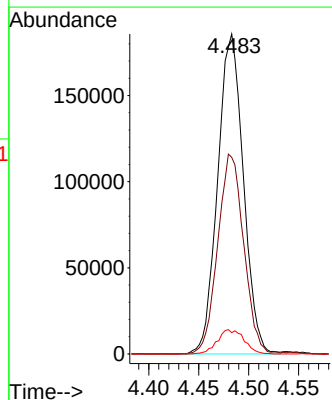
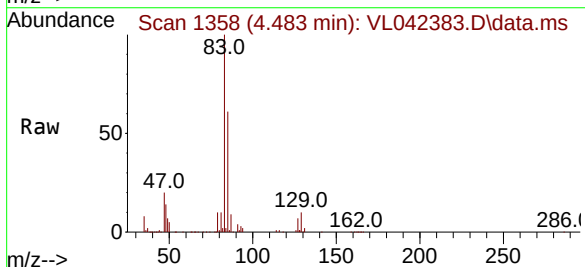
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

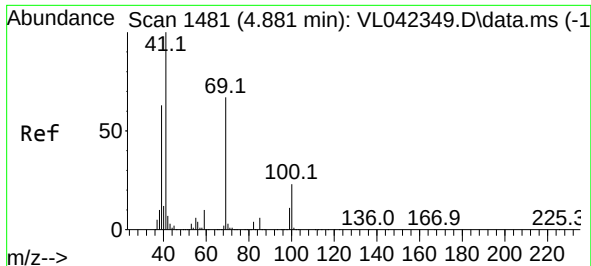
Tgt Ion: 42 Resp: 137694
Ion Ratio Lower Upper
42 100
72 42.8 32.3 48.5
71 40.9 31.4 47.2



#42
Bromodichloromethane
Concen: 8.632 ppbv
RT: 4.483 min Scan# 1358
Delta R.T. -0.006 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 83 Resp: 332490
Ion Ratio Lower Upper
83 100
85 61.4 49.7 74.5
127 6.6 5.1 7.7

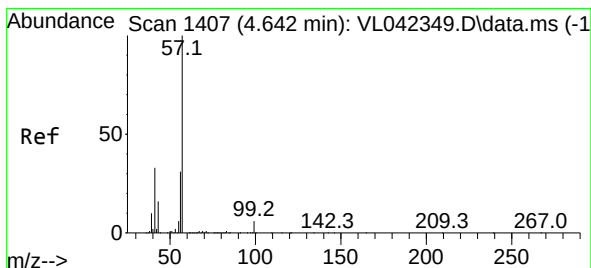
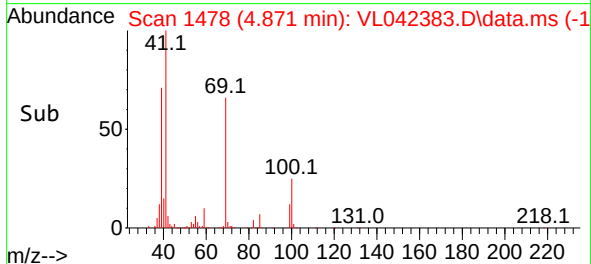
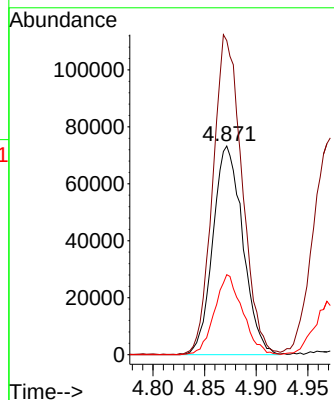
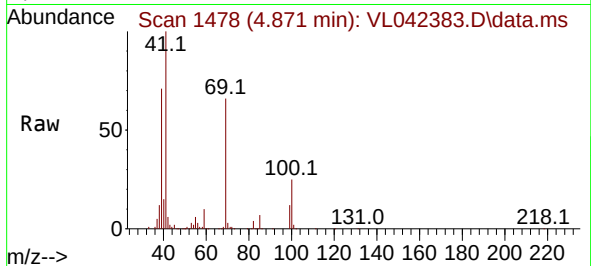




#43
Methyl Methacrylate
Concen: 7.098 ppbv
RT: 4.871 min Scan# 1478
Delta R.T. -0.010 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

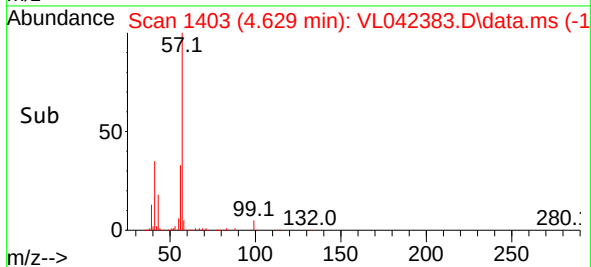
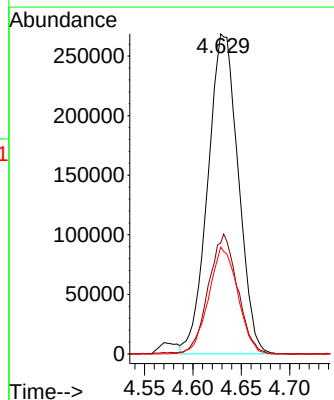
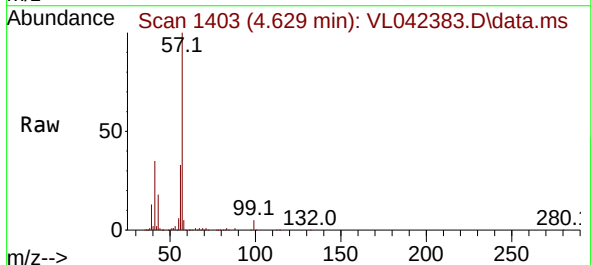
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

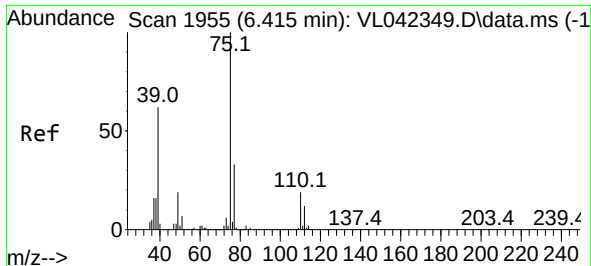
Tgt Ion: 69 Resp: 147517
Ion Ratio Lower Upper
69 100
41 149.5 118.6 177.8
100 36.1 28.2 42.2



#44
2,2,4-Trimethylpentane
Concen: 7.374 ppbv
RT: 4.629 min Scan# 1403
Delta R.T. -0.013 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 57 Resp: 587274
Ion Ratio Lower Upper
57 100
41 36.2 27.2 40.8
56 32.0 25.7 38.5





#45

t-1,3-Dichloropropene

Concen: 7.756 ppbv

RT: 6.402 min Scan# 1951

Delta R.T. -0.013 min

Lab File: VL042383.D

Acq: 18 Apr 2025 10:23

Instrument :

MSVOA_L

ClientSampleId :

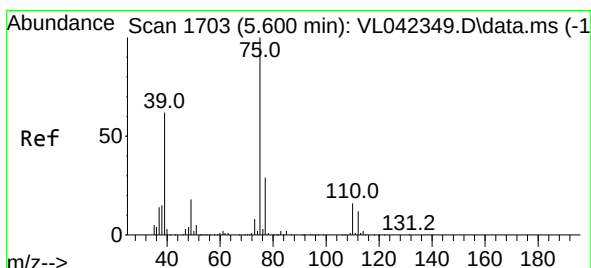
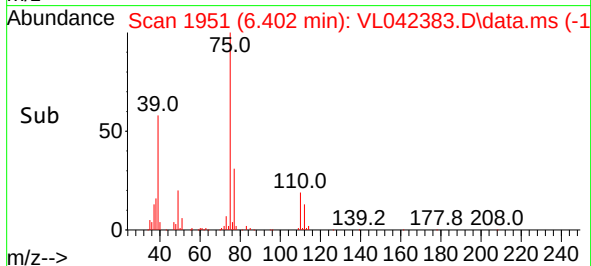
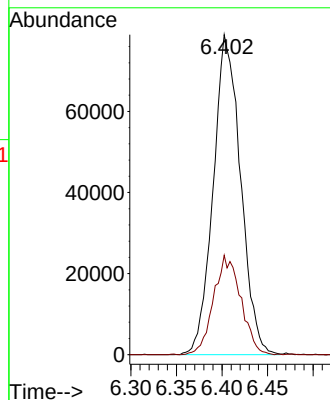
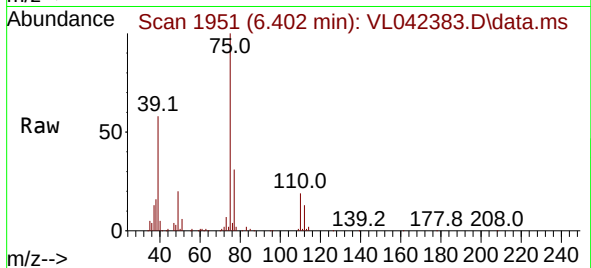
VSTDCCC010

Tgt Ion: 75 Resp: 164658

Ion Ratio Lower Upper

75 100

77 31.1 27.0 40.6



#46

cis-1,3-Dichloropropene

Concen: 7.729 ppbv

RT: 5.593 min Scan# 1701

Delta R.T. -0.006 min

Lab File: VL042383.D

Acq: 18 Apr 2025 10:23

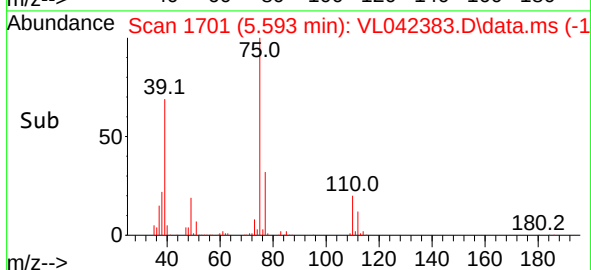
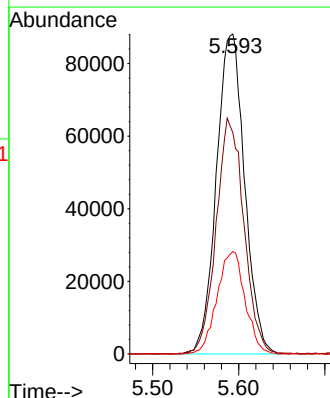
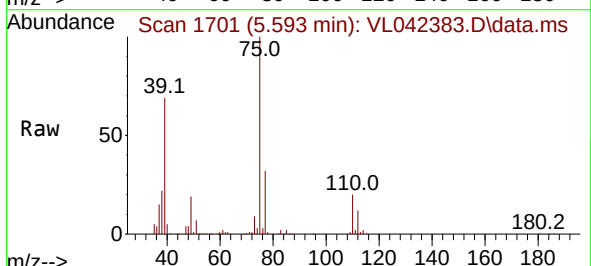
Tgt Ion: 75 Resp: 200823

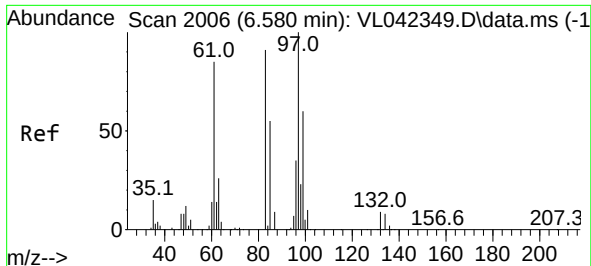
Ion Ratio Lower Upper

75 100

39 69.0 50.0 75.0

77 32.0 23.0 34.6





#47

1,1,2-Trichloroethane

Concen: 8.199 ppbv

RT: 6.571 min Scan# 2006

Delta R.T. -0.010 min

Lab File: VL042383.D

Acq: 18 Apr 2025 10:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 97 Resp: 143547

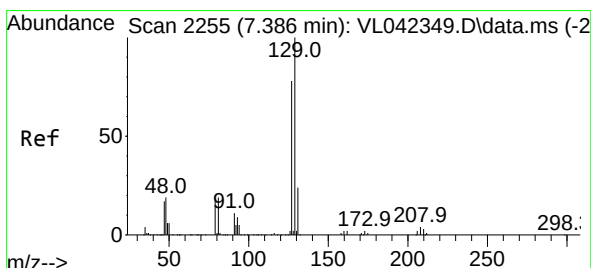
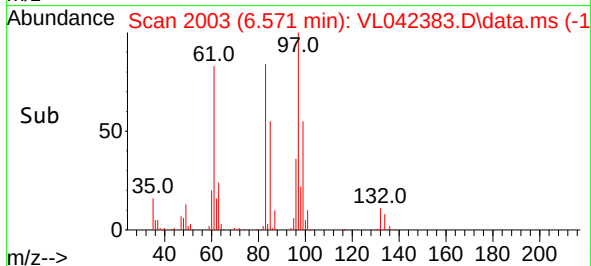
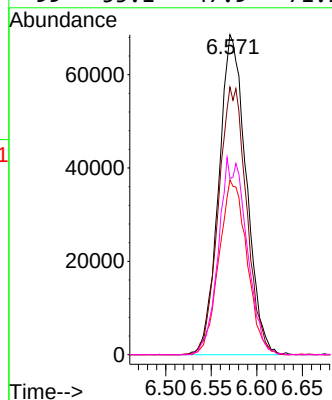
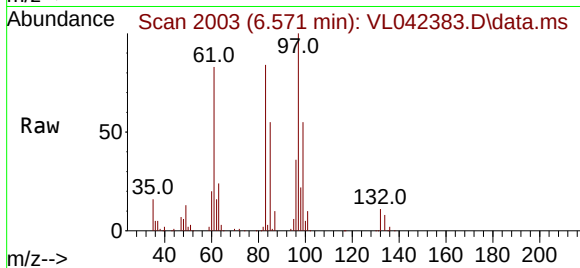
Ion Ratio Lower Upper

97 100

83 83.6 72.8 109.2

85 54.6 44.2 66.4

99 55.1 47.9 71.9



#48

Dibromochloromethane

Concen: 8.931 ppbv

RT: 7.380 min Scan# 2253

Delta R.T. -0.006 min

Lab File: VL042383.D

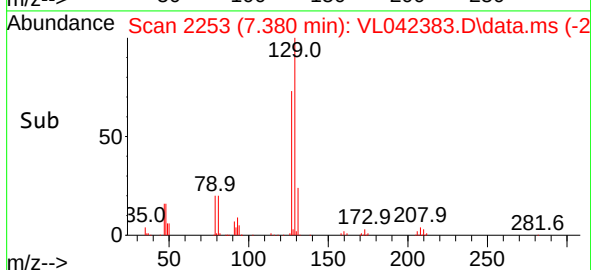
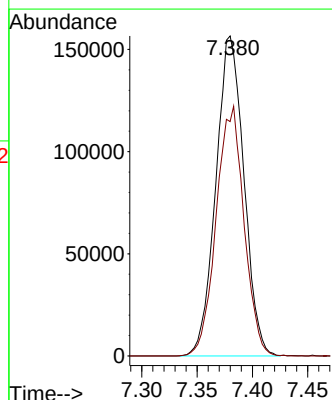
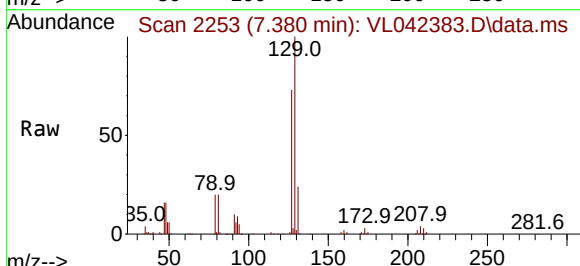
Acq: 18 Apr 2025 10:23

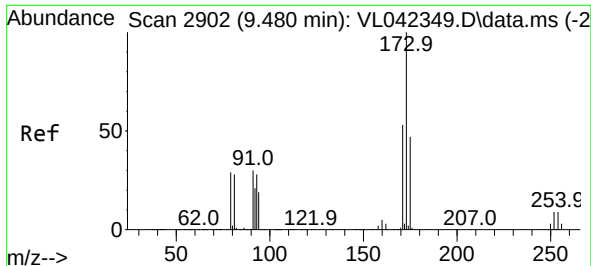
Tgt Ion: 129 Resp: 276258

Ion Ratio Lower Upper

129 100

127 77.3 39.1 117.3

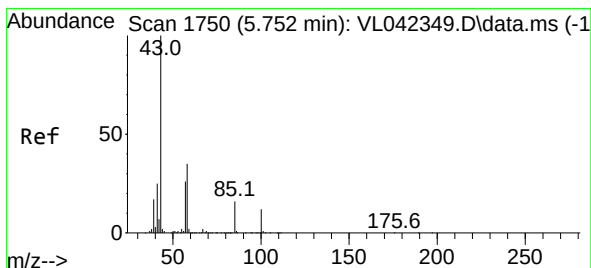
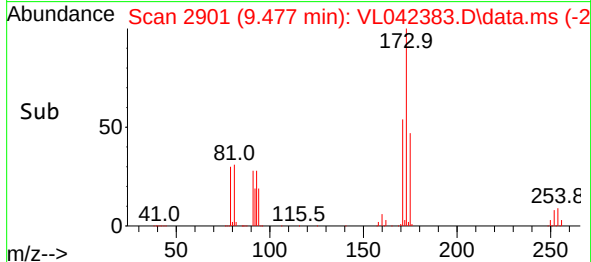
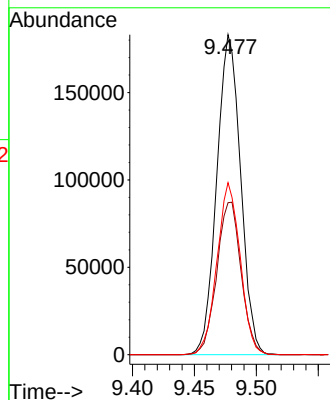
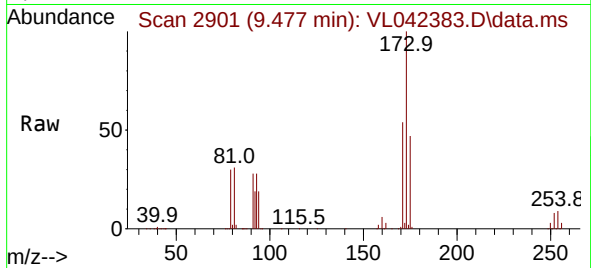




#49
Bromoform
Concen: 9.086 ppbv
RT: 9.477 min Scan# 2902
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

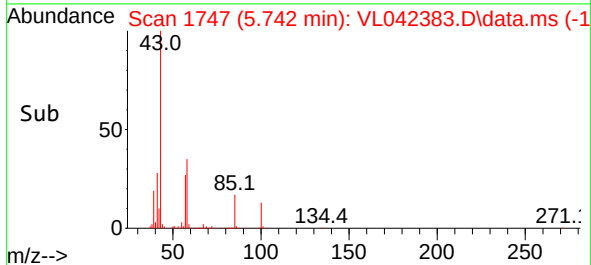
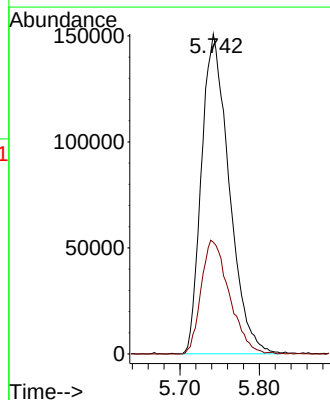
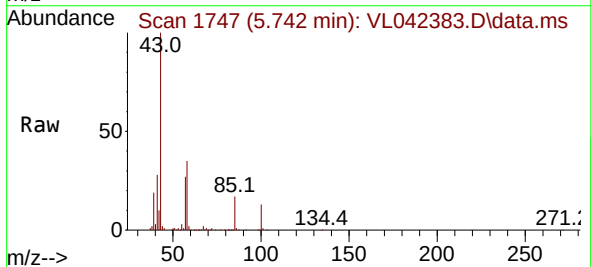
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

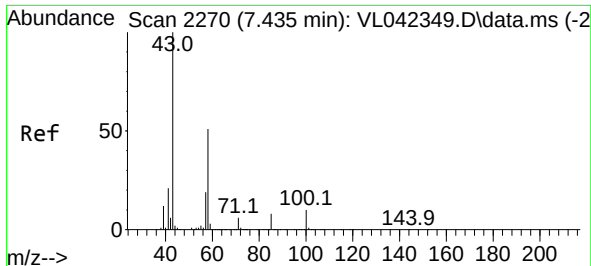
Tgt Ion:173 Resp: 245731
Ion Ratio Lower Upper
173 100
175 48.8 38.2 57.2
171 52.2 40.9 61.3



#50
4-Methyl-2-Pentanone
Concen: 6.501 ppbv
RT: 5.742 min Scan# 1747
Delta R.T. -0.010 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 43 Resp: 365292
Ion Ratio Lower Upper
43 100
58 36.3 28.6 43.0

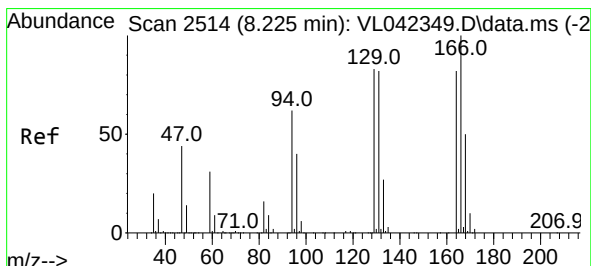
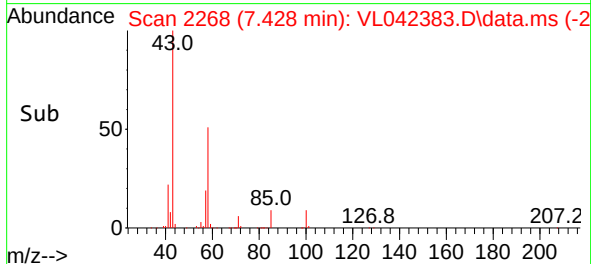
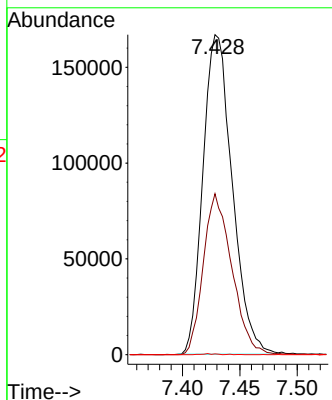
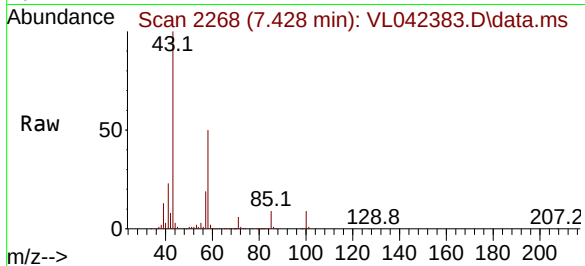




#51
2-Hexanone
Concen: 5.874 ppbv
RT: 7.428 min Scan# 21
Delta R.T. -0.006 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

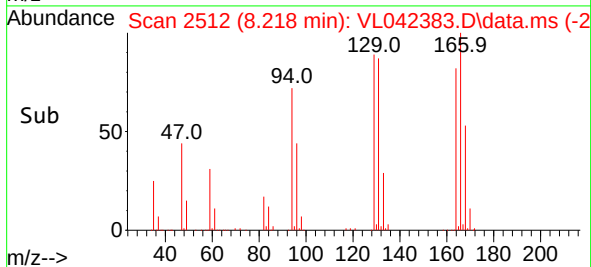
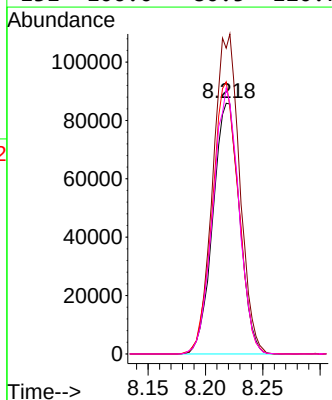
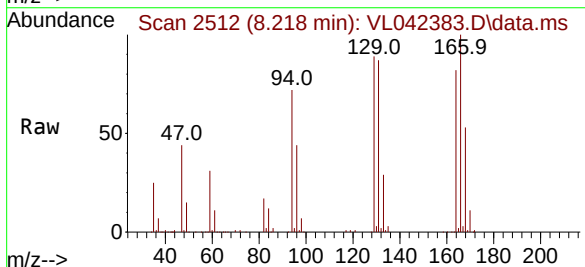
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

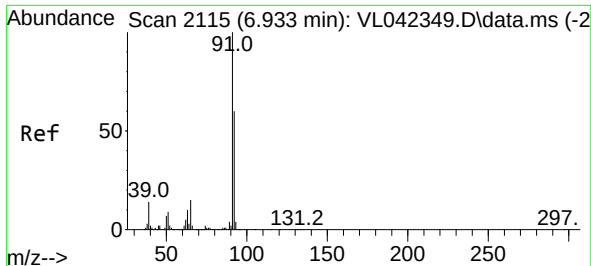
Tgt Ion: 43 Resp: 296019
Ion Ratio Lower Upper
43 100
58 49.2 40.2 60.4
98 0.2 0.1 0.1#



#52
Tetrachloroethene
Concen: 7.759 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. -0.006 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 164 Resp: 138295
Ion Ratio Lower Upper
164 100
166 121.9 98.2 147.2
129 108.5 81.8 122.8
131 106.0 80.5 120.7

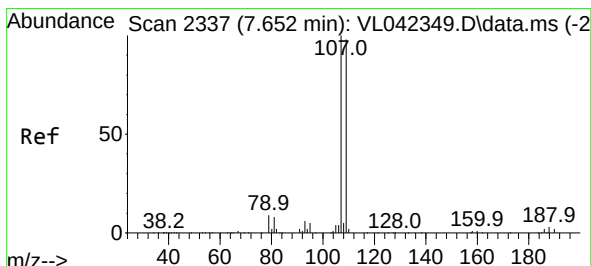
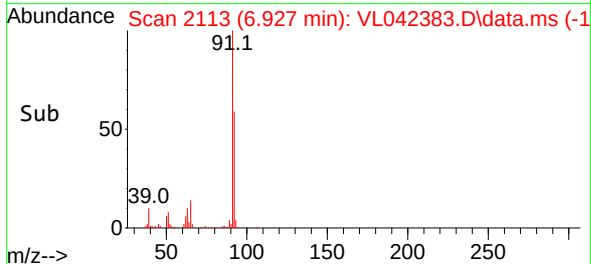
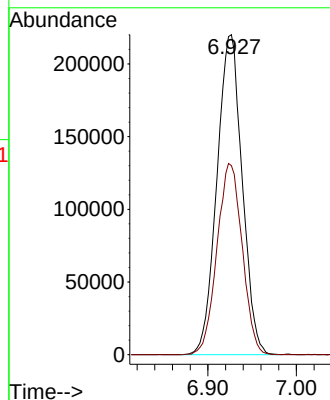
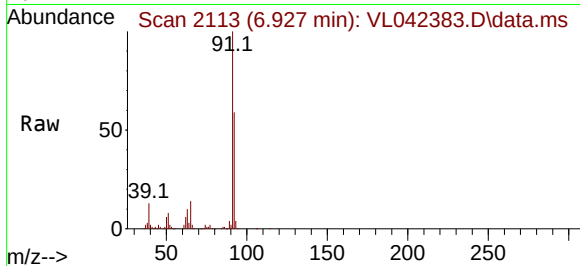




#53
Toluene
Concen: 7.886 ppbv
RT: 6.927 min Scan# 2115
Delta R.T. -0.006 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

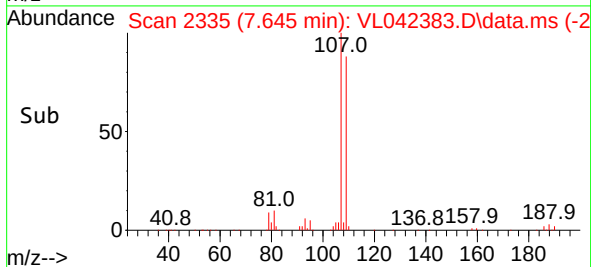
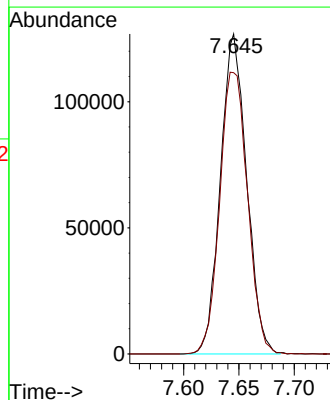
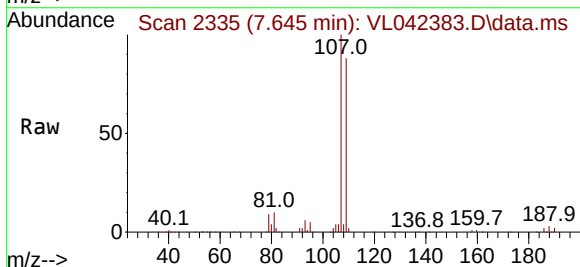
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

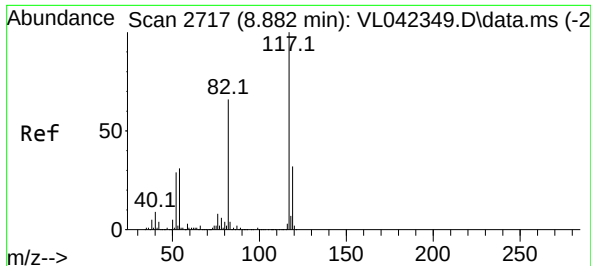
Tgt Ion: 91 Resp: 436388
Ion Ratio Lower Upper
91 100
92 59.7 48.2 72.4



#54
1,2-Dibromoethane
Concen: 8.347 ppbv
RT: 7.645 min Scan# 2335
Delta R.T. -0.006 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 107 Resp: 209152
Ion Ratio Lower Upper
107 100
109 87.9 78.2 117.4

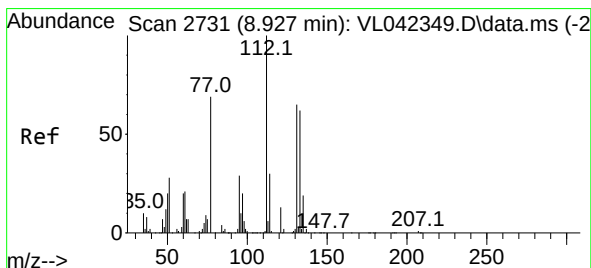
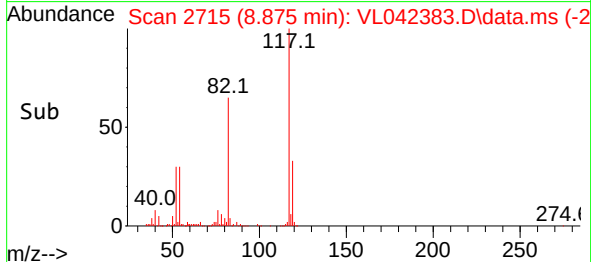
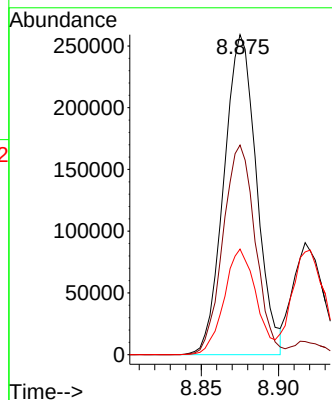
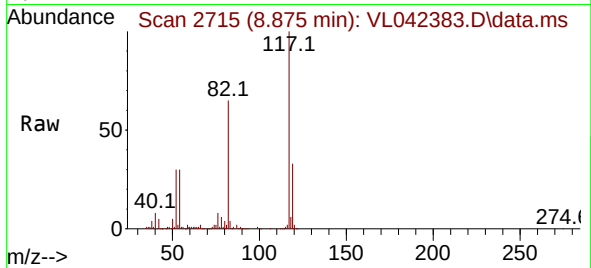




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. -0.006 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

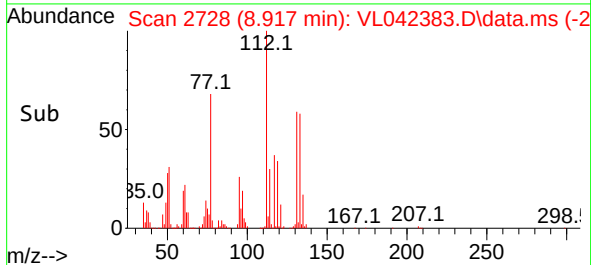
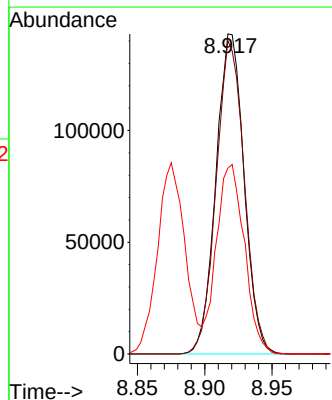
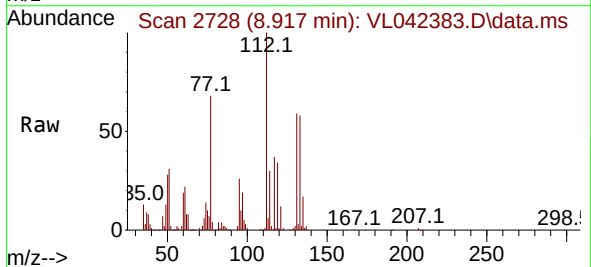
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

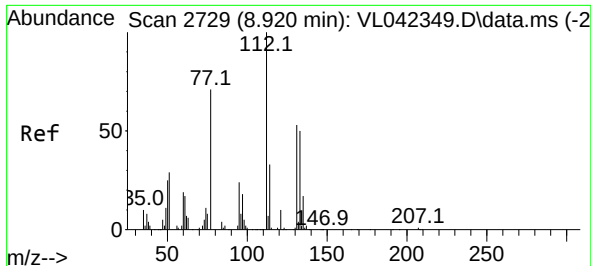
Tgt Ion:117 Resp: 379215
Ion Ratio Lower Upper
117 100
82 69.1 57.8 86.6
119 31.8 25.2 37.8



#56
1,1,1,2-Tetrachloroethane
Concen: 9.038 ppbv
RT: 8.917 min Scan# 2728
Delta R.T. -0.010 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion:131 Resp: 207437
Ion Ratio Lower Upper
131 100
133 98.0 78.3 117.5
119 59.4 48.7 73.1

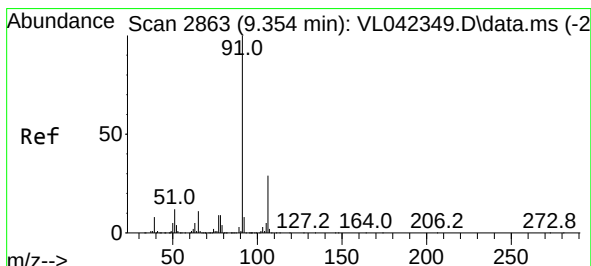
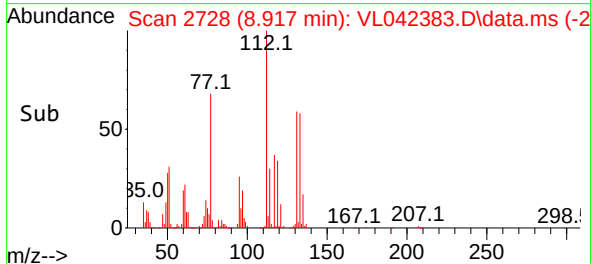
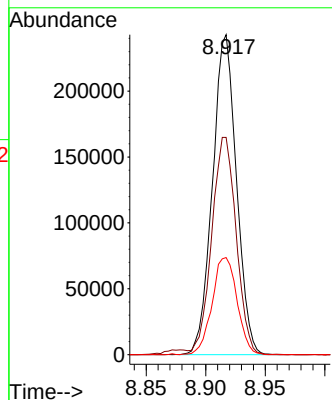
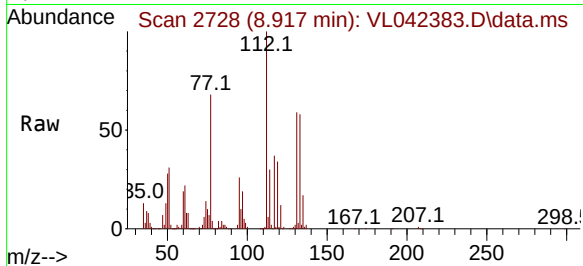




#57
Chlorobenzene
Concen: 8.619 ppbv
RT: 8.917 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

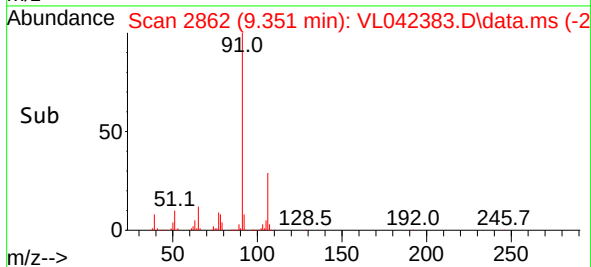
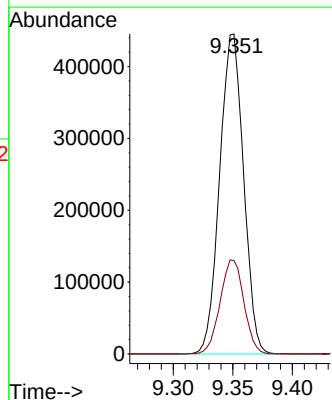
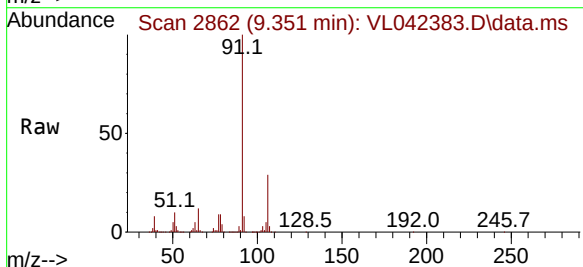
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

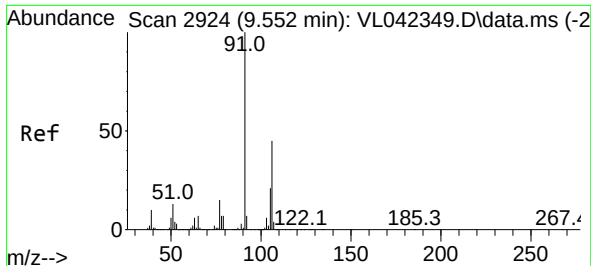
Tgt Ion:112 Resp: 339932
Ion Ratio Lower Upper
112 100
77 67.8 57.8 86.6
114 30.3 29.3 35.9



#58
Ethyl Benzene
Concen: 8.258 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 91 Resp: 620425
Ion Ratio Lower Upper
91 100
106 29.2 23.0 34.4





#59

m/p-Xylene

Concen: 8.134 ppbv

RT: 9.545 min Scan# 2924

Delta R.T. -0.006 min

Lab File: VL042383.D

Acq: 18 Apr 2025 10:23

Instrument :

MSVOA_L

ClientSampleId :

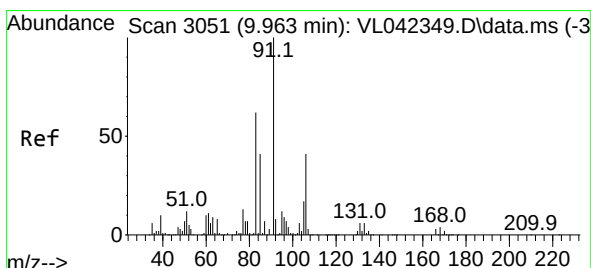
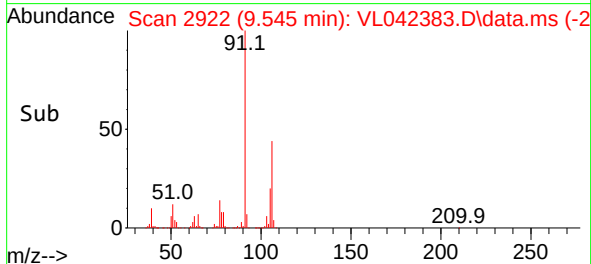
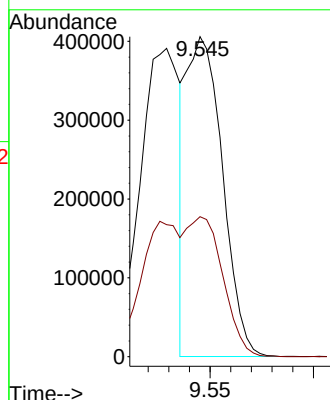
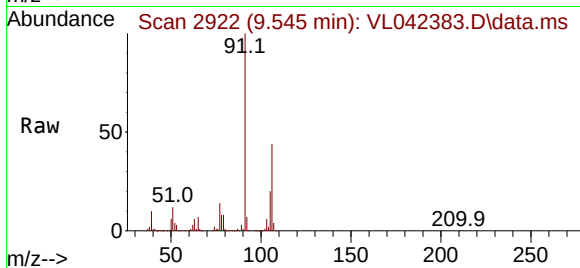
VSTDCCC010

Tgt Ion: 91 Resp: 492303

Ion Ratio Lower Upper

91 100

106 90.5 35.4 53.2#



#60

o-Xylene

Concen: 8.290 ppbv

RT: 9.959 min Scan# 3050

Delta R.T. -0.003 min

Lab File: VL042383.D

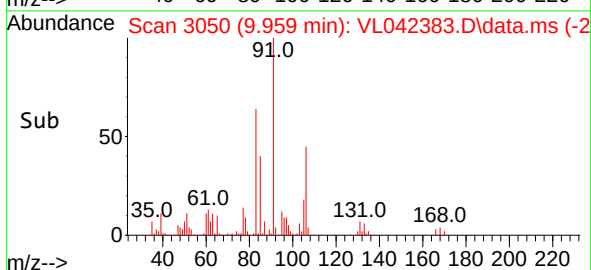
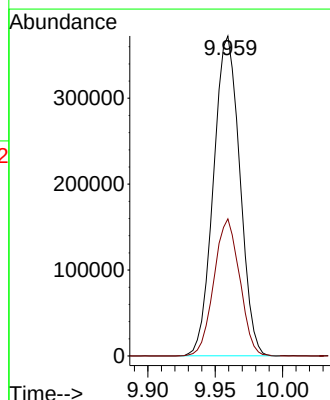
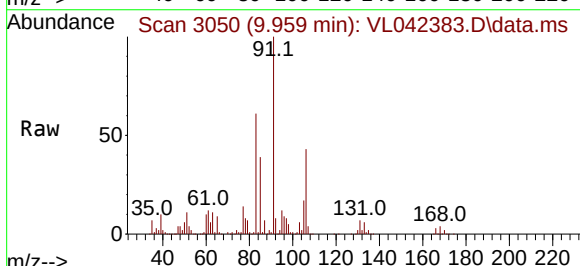
Acq: 18 Apr 2025 10:23

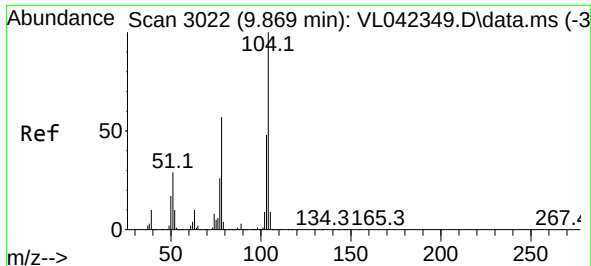
Tgt Ion: 91 Resp: 505258

Ion Ratio Lower Upper

91 100

106 42.0 21.1 63.4

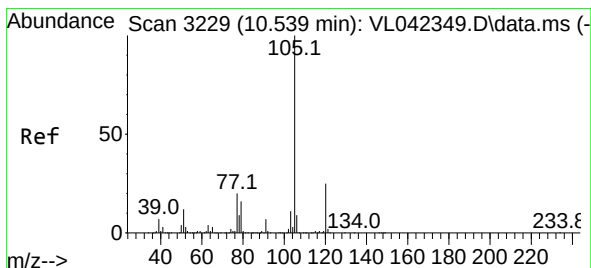
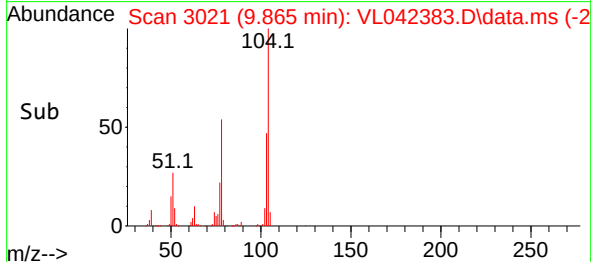
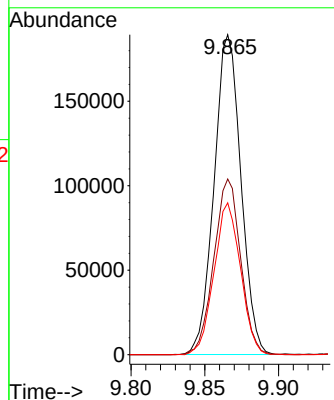
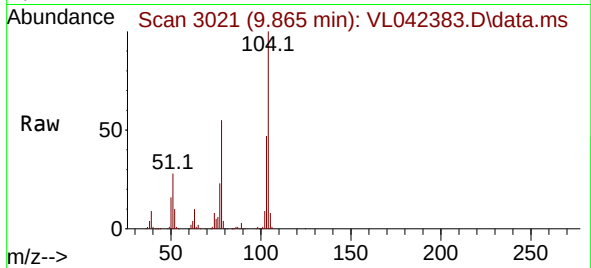




#61
Styrene
Concen: 8.253 ppbv
RT: 9.865 min Scan# 3022
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

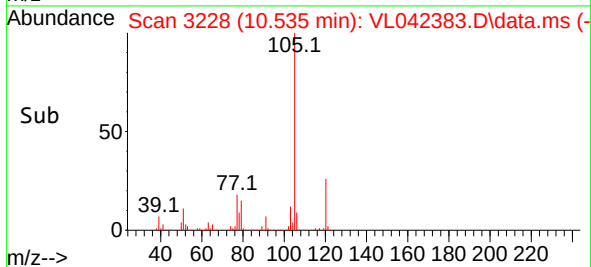
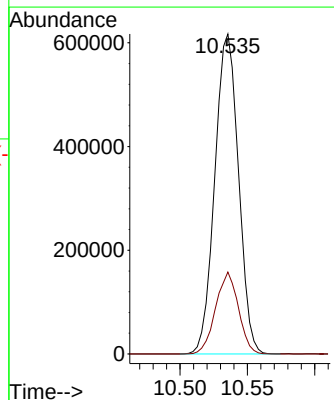
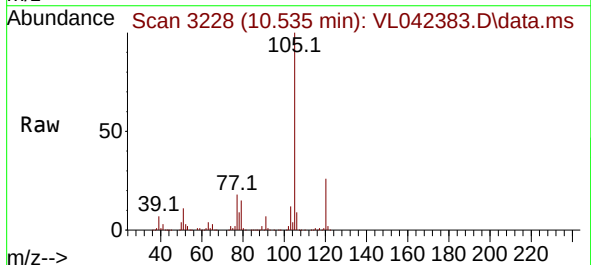
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

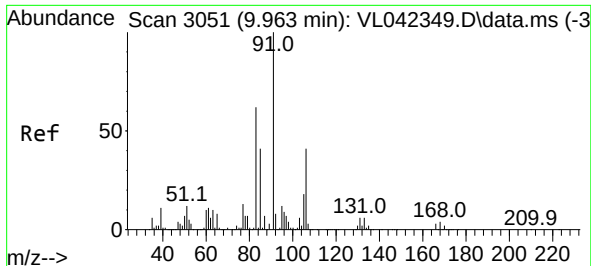
Tgt Ion:104 Resp: 240108
Ion Ratio Lower Upper
104 100
78 54.7 44.6 66.8
103 46.9 37.4 56.0



#62
Isopropylbenzene
Concen: 8.422 ppbv
RT: 10.535 min Scan# 3228
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion:105 Resp: 753628
Ion Ratio Lower Upper
105 100
120 24.6 19.8 29.8

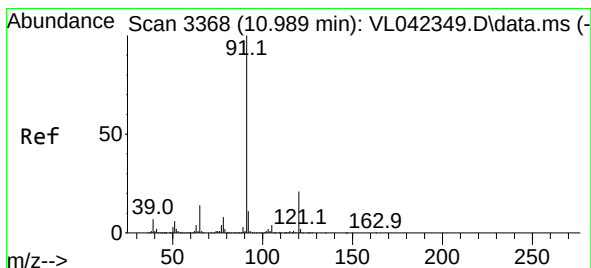
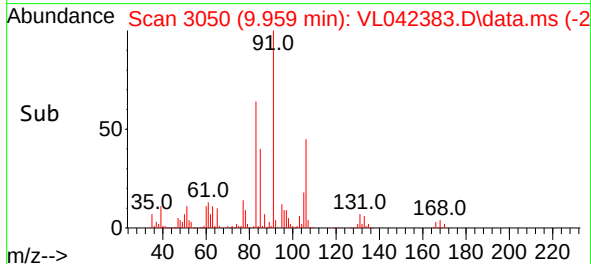
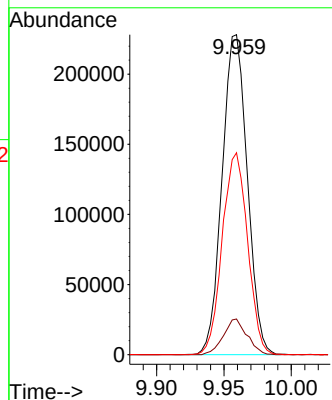
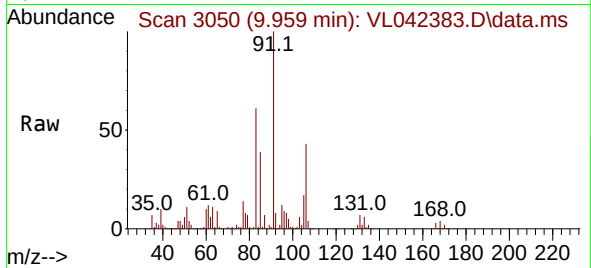




#63
1,1,2,2-Tetrachloroethane
Concen: 7.520 ppbv
RT: 9.959 min Scan# 3050
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

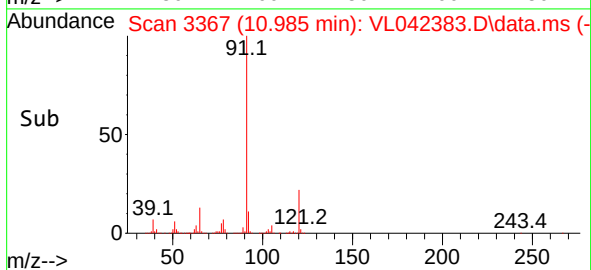
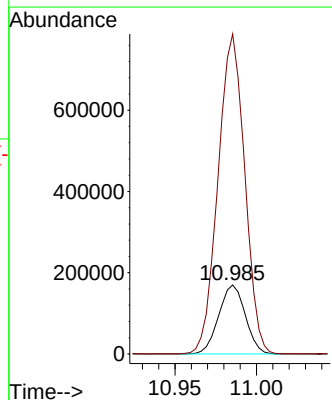
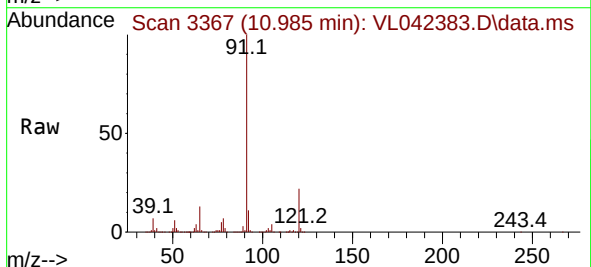
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

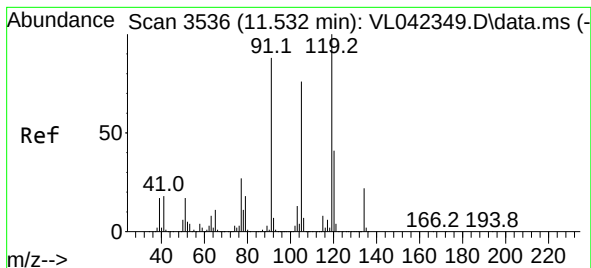
Tgt Ion: 83 Resp: 297020
Ion Ratio Lower Upper
83 100
131 10.5 4.5 13.7
85 63.5 32.4 97.0



#64
n-propylbenzene
Concen: 8.534 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion:120 Resp: 191951
Ion Ratio Lower Upper
120 100
91 467.4 392.4 588.6

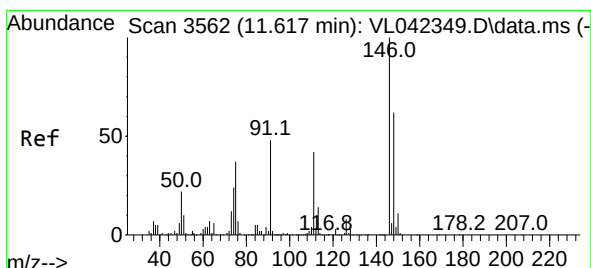
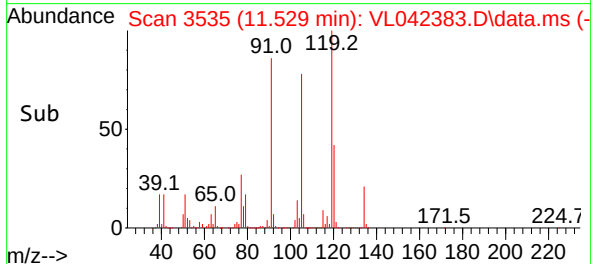
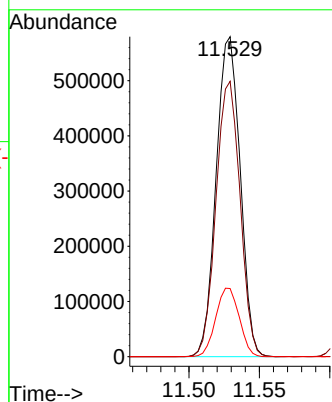
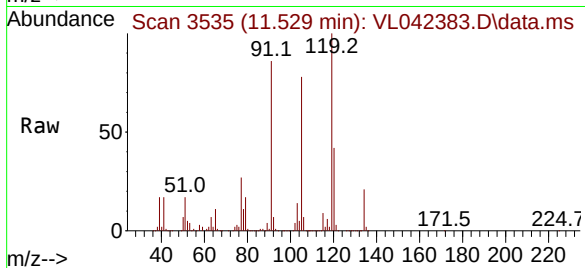




#65
tert-Butylbenzene
Concen: 8.367 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

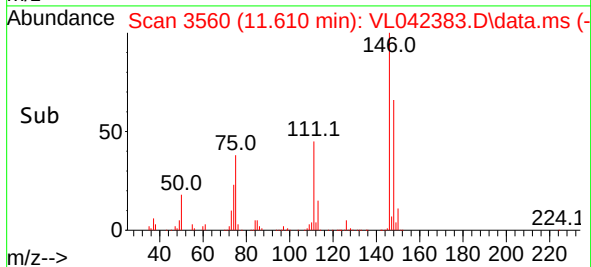
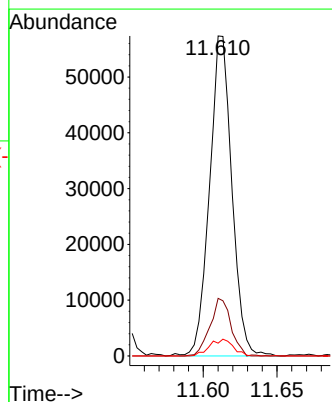
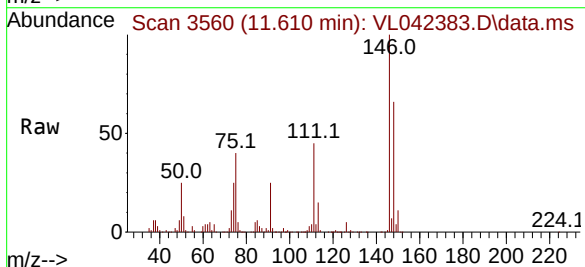
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

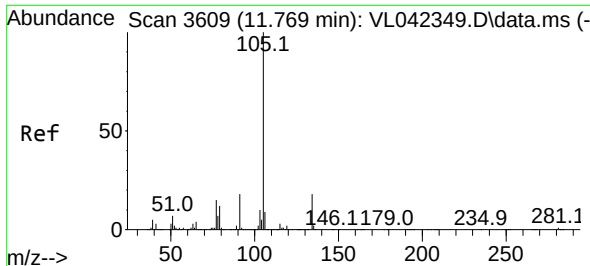
Tgt Ion:119 Resp: 688133
Ion Ratio Lower Upper
119 100
91 86.4 74.6 111.8
134 21.0 18.8 28.2



#66
Benzyl Chloride
Concen: 6.664 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. -0.006 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion: 91 Resp: 60227
Ion Ratio Lower Upper
91 100
126 16.9 11.8 17.6
128 5.5 4.5 6.7

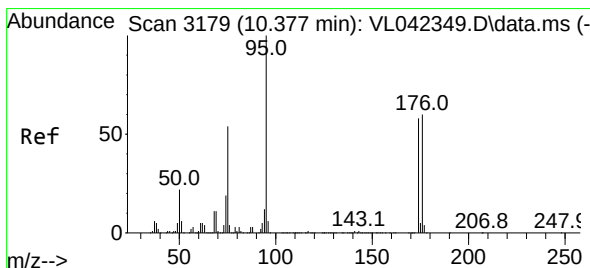
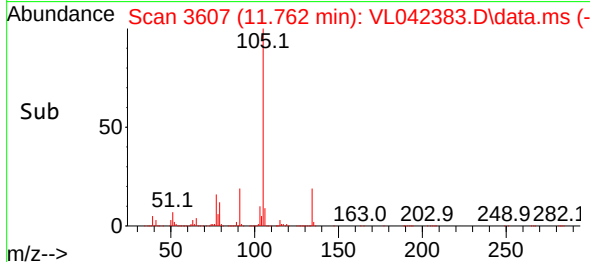
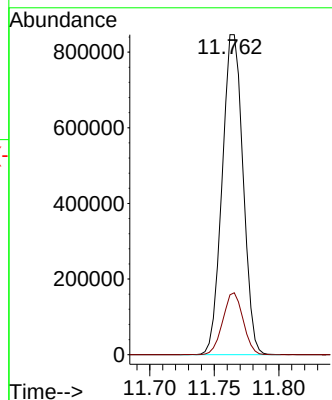
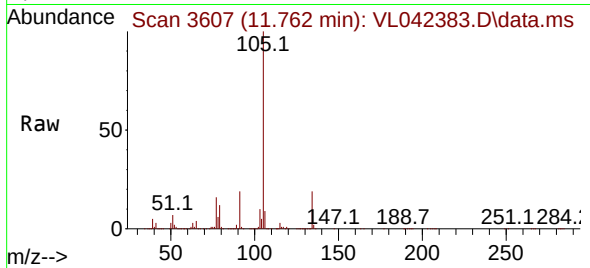




#67
 sec-Butylbenzene
 Concen: 8.295 ppbv
 RT: 11.762 min Scan# 3107
 Delta R.T. -0.006 min
 Lab File: VL042383.D
 Acq: 18 Apr 2025 10:23

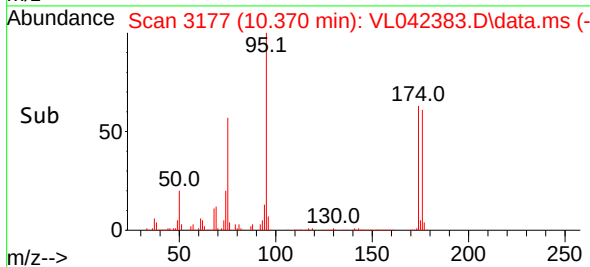
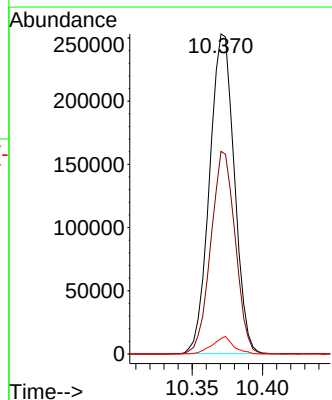
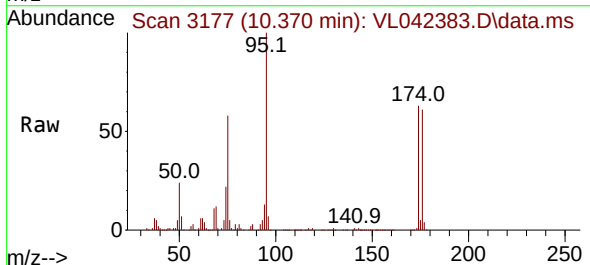
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

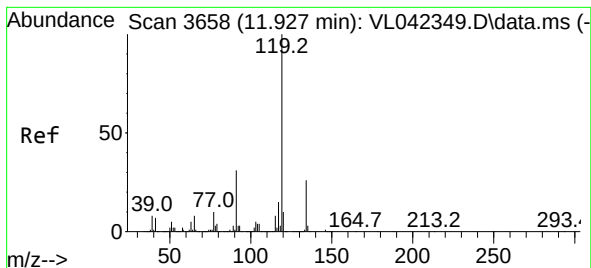
Tgt Ion:105 Resp: 948966
 Ion Ratio Lower Upper
 105 100
 134 18.9 14.6 21.8



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.924 ppbv
 RT: 10.370 min Scan# 3177
 Delta R.T. -0.006 min
 Lab File: VL042383.D
 Acq: 18 Apr 2025 10:23

Tgt Ion: 95 Resp: 309235
 Ion Ratio Lower Upper
 95 100
 174 62.5 48.5 72.7
 175 4.6 3.7 5.5

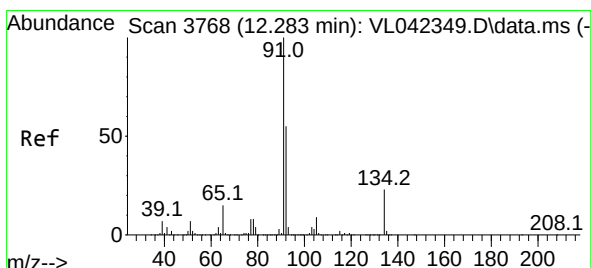
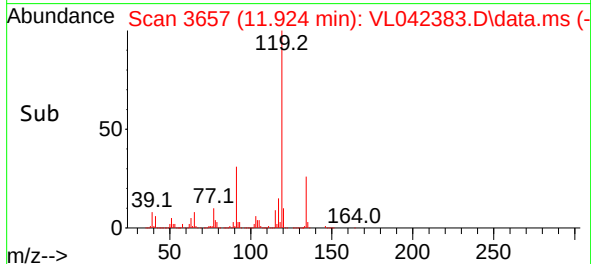
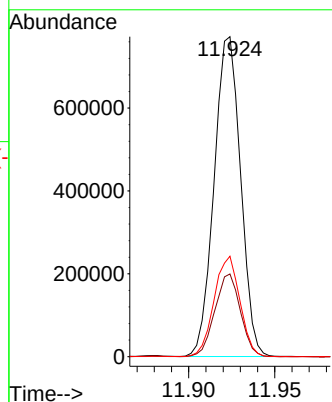
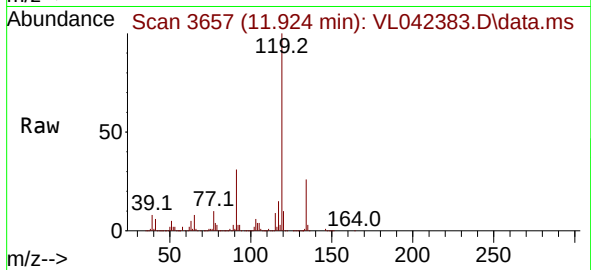




#69
 p-Isopropyltoluene
 Concen: 8.315 ppbv
 RT: 11.924 min Scan# 3657
 Delta R.T. -0.003 min
 Lab File: VL042383.D
 Acq: 18 Apr 2025 10:23

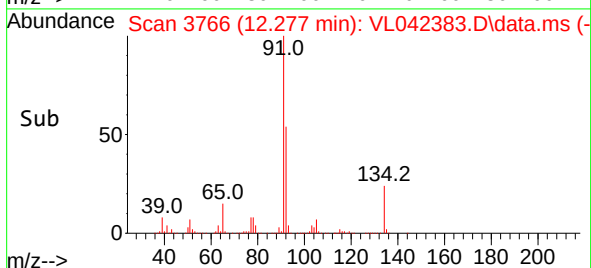
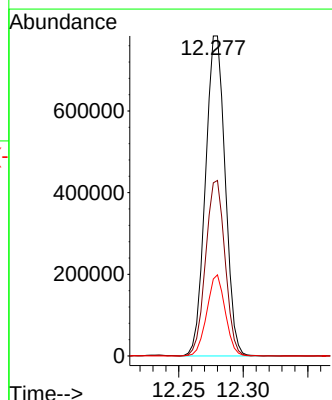
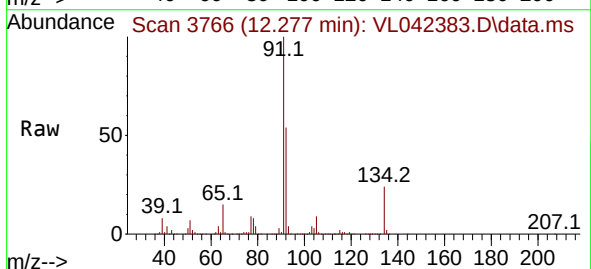
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDCCC010

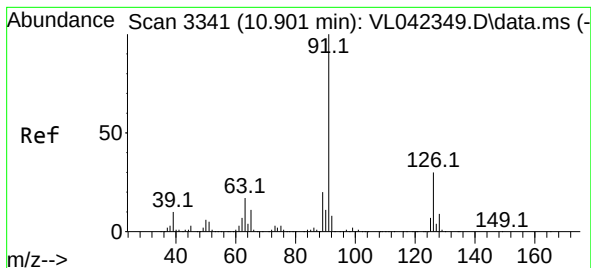
Tgt Ion:119 Resp: 826443
 Ion Ratio Lower Upper
 119 100
 134 25.1 20.0 30.0
 91 30.8 24.4 36.6



#70
 n-Butylbenzene
 Concen: 8.039 ppbv
 RT: 12.277 min Scan# 3766
 Delta R.T. -0.006 min
 Lab File: VL042383.D
 Acq: 18 Apr 2025 10:23

Tgt Ion: 91 Resp: 832220
 Ion Ratio Lower Upper
 91 100
 92 54.3 44.2 66.4
 134 23.6 18.2 27.4





#71

2-Chlorotoluene

Concen: 8.306 ppbv

RT: 10.898 min Scan# 31

Delta R.T. -0.003 min

Lab File: VL042383.D

Acq: 18 Apr 2025 10:23

Instrument :

MSVOA_1

ClientSampleId :

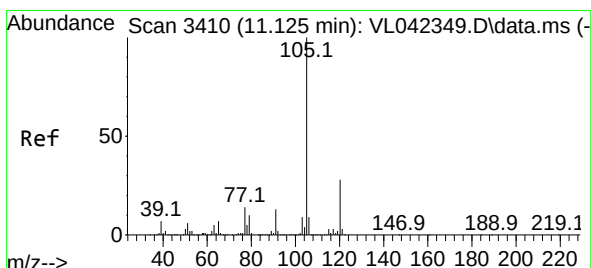
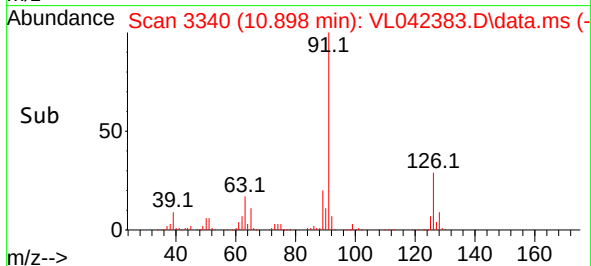
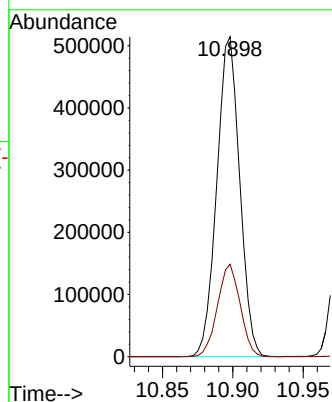
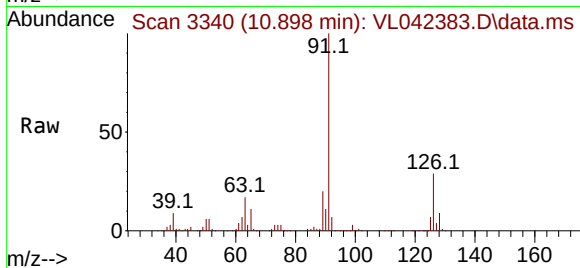
VSTDCCC010

Tgt Ion: 91 Resp: 582951

Ion Ratio Lower Upper

91 100

126 28.6 11.4 45.4



#72

4-Ethyltoluene

Concen: 8.256 ppbv

RT: 11.121 min Scan# 3409

Delta R.T. -0.003 min

Lab File: VL042383.D

Acq: 18 Apr 2025 10:23

Tgt Ion:105 Resp: 615202

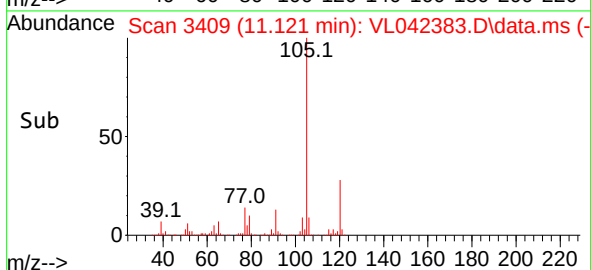
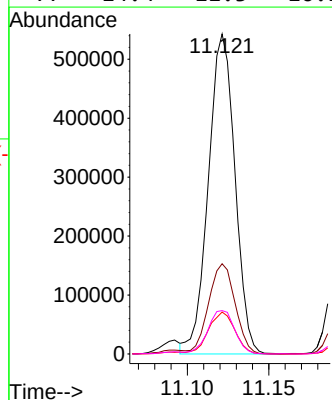
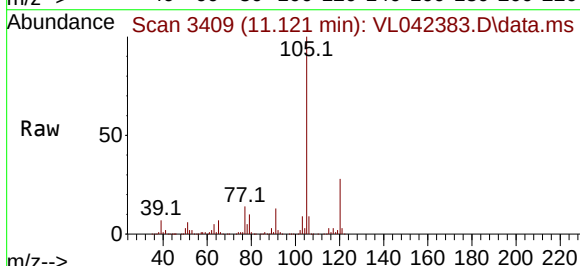
Ion Ratio Lower Upper

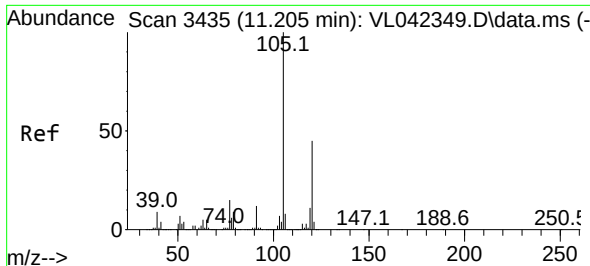
105 100

120 29.3 23.2 34.8

91 13.6 10.4 15.6

77 14.4 11.3 16.9

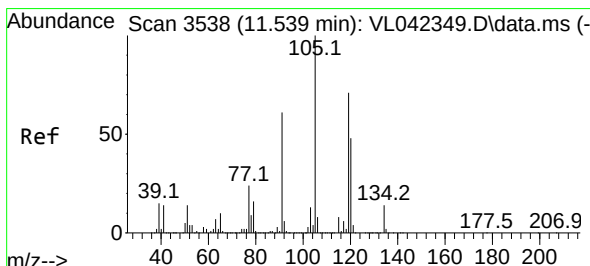
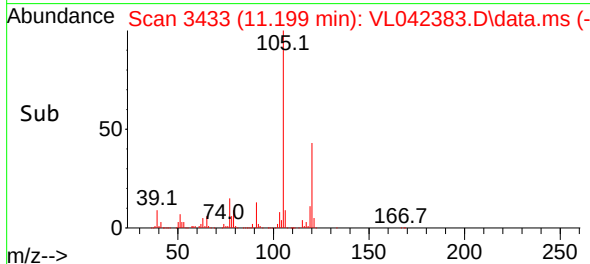
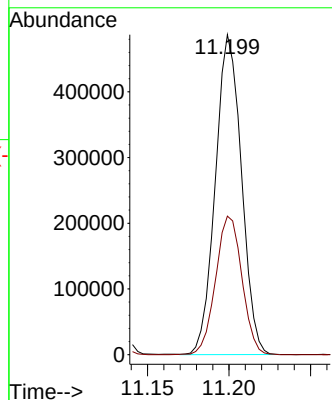
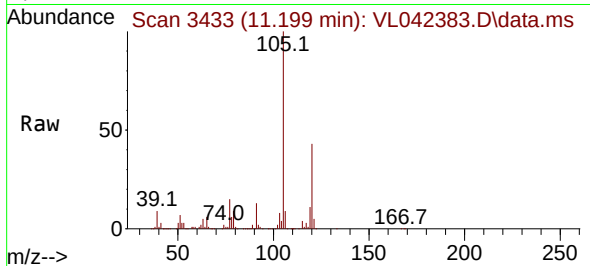




#73
1,3,5-Trimethylbenzene
Concen: 8.220 ppbv
RT: 11.199 min Scan# 34
Delta R.T. -0.006 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

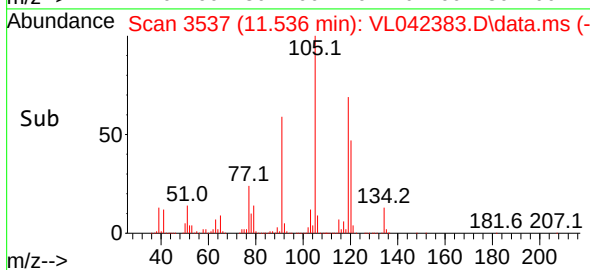
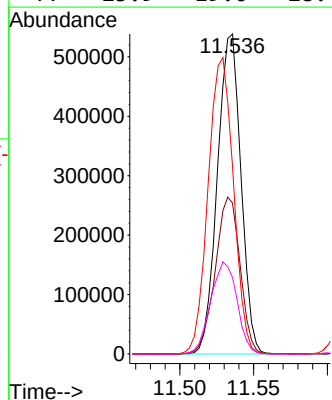
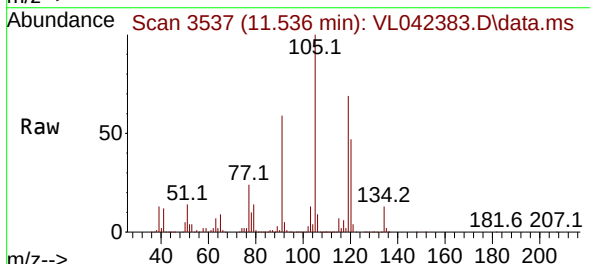
Instrument :
MSVOA_1
ClientSampleId :
VSTDCCC010

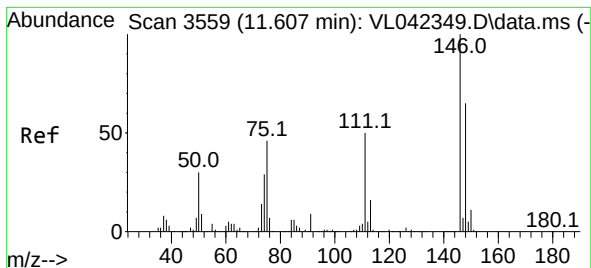
Tgt Ion:105 Resp: 540783
Ion Ratio Lower Upper
105 100
120 43.3 35.6 53.4



#74
1,2,4-Trimethylbenzene
Concen: 7.794 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion:105 Resp: 598825
Ion Ratio Lower Upper
105 100
120 47.1 38.1 57.1
91 58.6 48.8 73.2
77 23.9 19.0 28.4





#75

1,3-Dichlorobenzene

Concen: 8.644 ppbv

RT: 11.604 min Scan# 3559

Delta R.T. -0.003 min

Lab File: VL042383.D

Acq: 18 Apr 2025 10:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

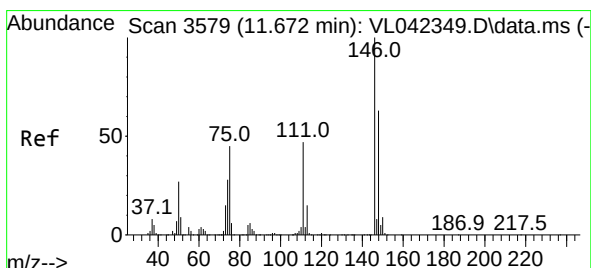
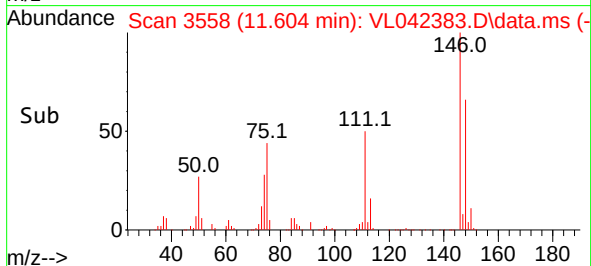
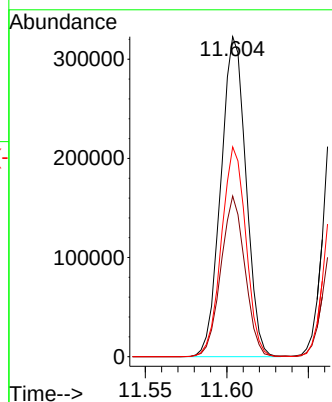
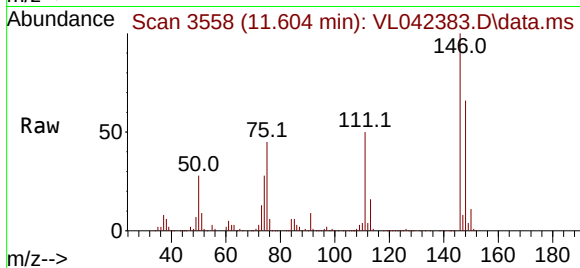
Tgt Ion:146 Resp: 345226

Ion Ratio Lower Upper

146 100

111 48.0 24.3 72.8

148 63.9 31.6 94.8



#76

1,4-Dichlorobenzene

Concen: 8.477 ppbv

RT: 11.668 min Scan# 3578

Delta R.T. -0.003 min

Lab File: VL042383.D

Acq: 18 Apr 2025 10:23

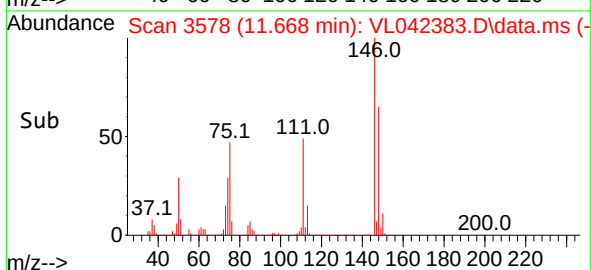
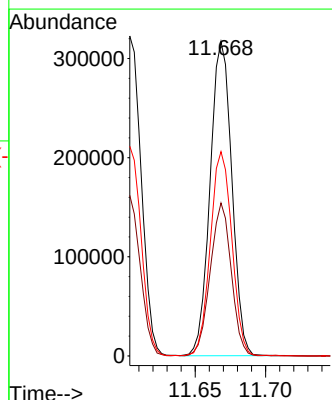
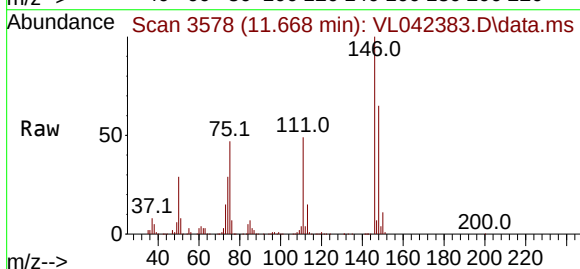
Tgt Ion:146 Resp: 340293

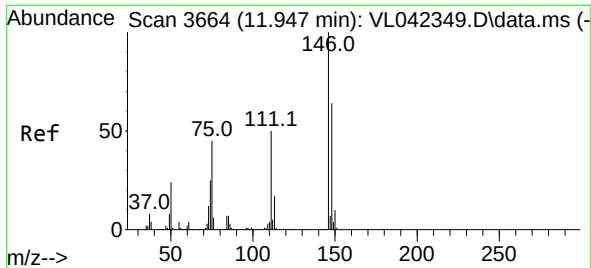
Ion Ratio Lower Upper

146 100

111 47.1 24.2 72.6

148 64.7 32.1 96.5

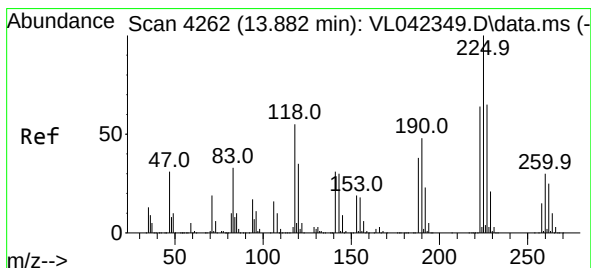
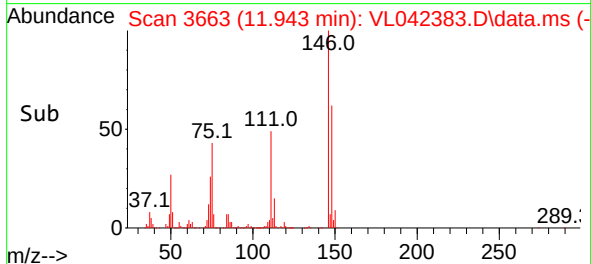
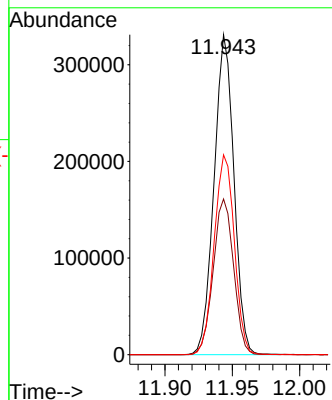
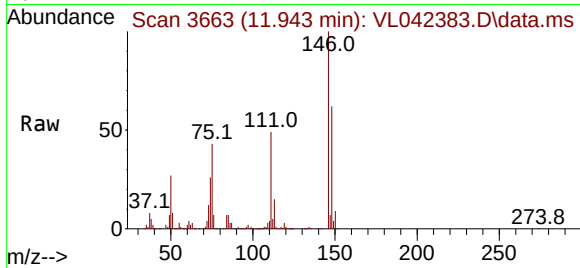




#77
1,2-Dichlorobenzene
Concen: 8.751 ppbv
RT: 11.943 min Scan# 30
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

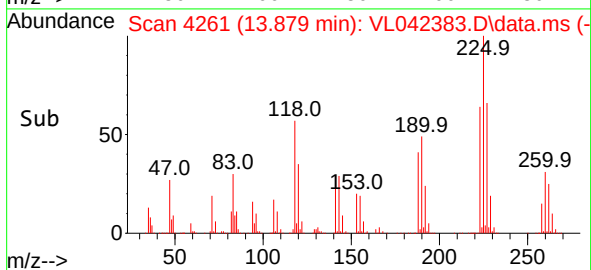
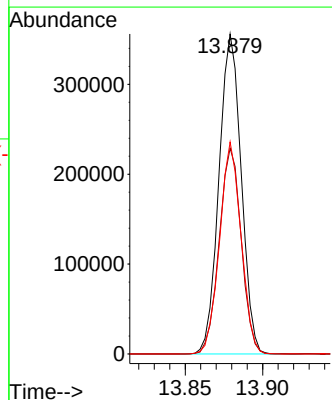
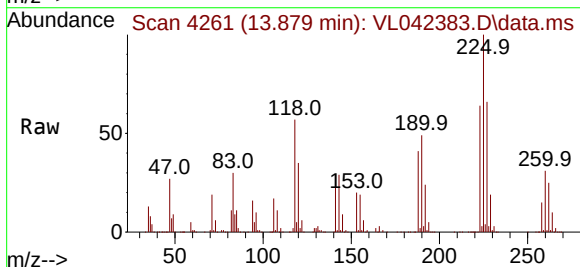
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

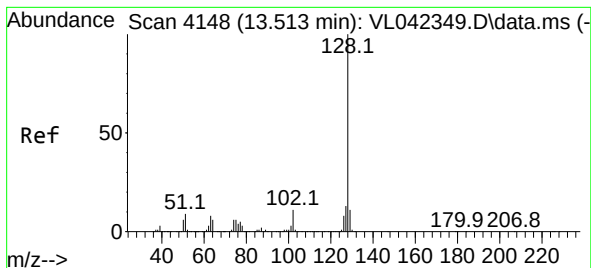
Tgt Ion:146 Resp: 339821
Ion Ratio Lower Upper
146 100
111 50.0 25.3 75.9
148 63.7 31.5 94.5



#78
Hexachloro-1,3-Butadiene
Concen: 9.061 ppbv
RT: 13.879 min Scan# 4261
Delta R.T. -0.003 min
Lab File: VL042383.D
Acq: 18 Apr 2025 10:23

Tgt Ion:225 Resp: 355324
Ion Ratio Lower Upper
225 100
223 63.8 50.3 75.5
227 63.9 51.5 77.3





#79

Naphthalene

Concen: 7.884 ppbv

RT: 13.510 min Scan# 4148

Delta R.T. -0.003 min

Lab File: VL042383.D

Acq: 18 Apr 2025 10:23

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

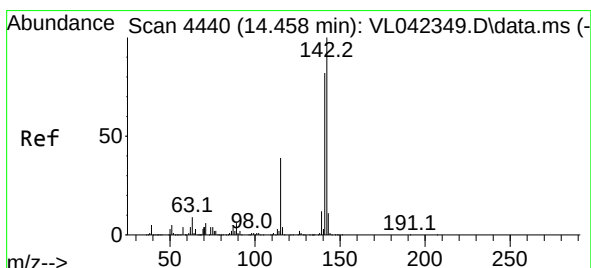
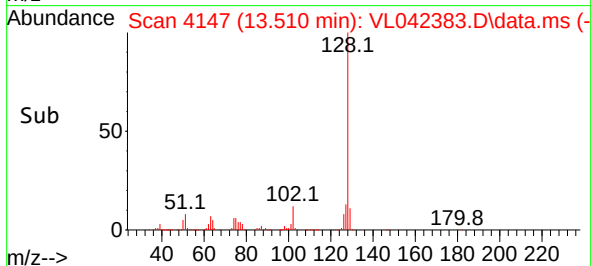
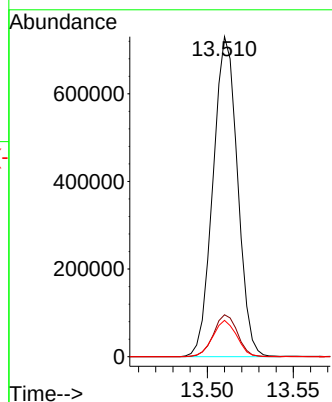
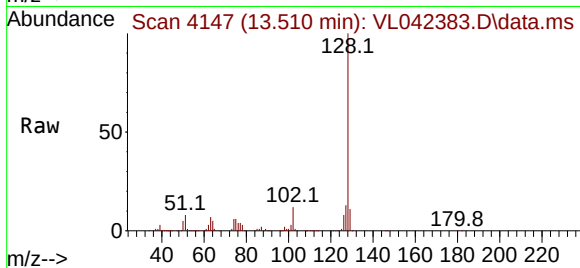
Tgt Ion:128 Resp: 724361

Ion Ratio Lower Upper

128 100

127 13.1 10.6 15.8

129 11.3 8.6 12.8



#80

Naphthalene,2-methyl-

Concen: 7.566 ppbv

RT: 14.455 min Scan# 4439

Delta R.T. -0.003 min

Lab File: VL042383.D

Acq: 18 Apr 2025 10:23

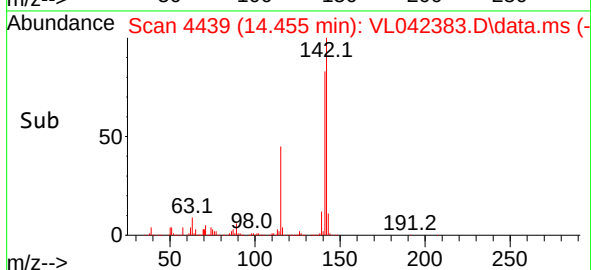
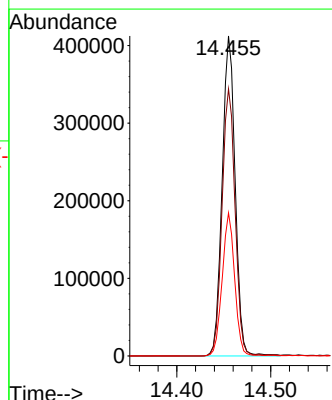
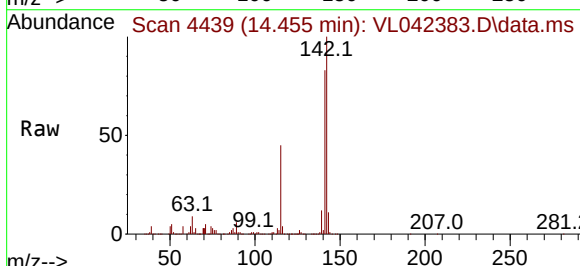
Tgt Ion:142 Resp: 396207

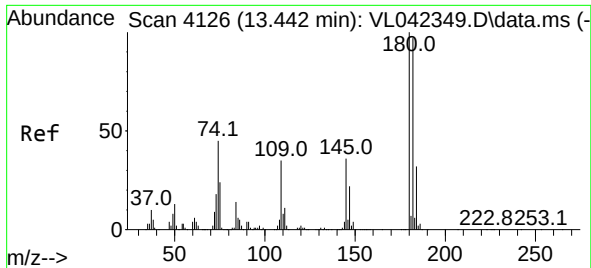
Ion Ratio Lower Upper

142 100

141 84.8 66.8 100.2

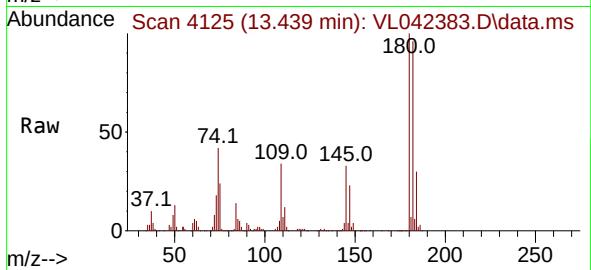
115 43.4 33.4 50.2



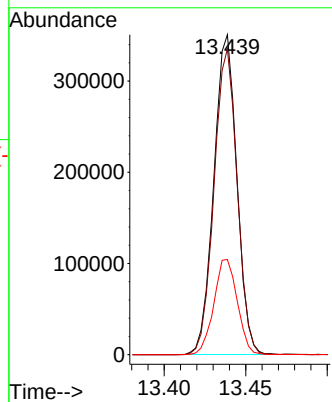
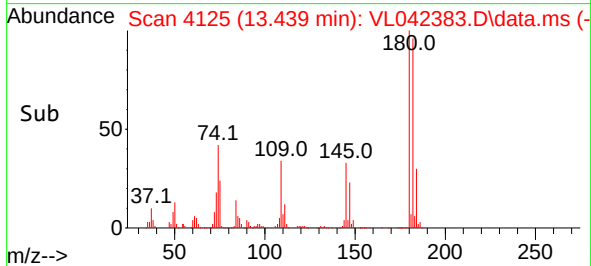


#81
 1,2,4-Trichlorobenzene
 Concen: 8.737 ppbv
 RT: 13.439 min Scan# 41
 Delta R.T. -0.003 min
 Lab File: VL042383.D
 Acq: 18 Apr 2025 10:23

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010



Tgt Ion:180 Resp: 344709
 Ion Ratio Lower Upper
 180 100
 182 95.8 76.8 115.2
 184 30.4 24.6 36.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
 Data File : VL042385.D
 Acq On : 18 Apr 2025 11:38
 Operator : SY/MD
 Sample : VL0418ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0418ABS01

Quant Time: Apr 18 22:56:38 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	2.781	49	137596	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	421834	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	371546	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.371	95	306062	10.024	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.200%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.496	85	226018	9.297	ppbv	97
3) Chlorodifluoromethane	1.473	51	188655	8.149	ppbv	97
4) Chloromethane	1.531	50	83080	8.636	ppbv	98
5) Vinyl Chloride	1.577	62	79548	7.596	ppbv	97
6) Bromomethane	1.664	94	38033	8.454	ppbv	90
7) Chloroethane	1.703	64	31293	8.263	ppbv	90
8) Dichlorotetrafluoroethane	1.551	85	190713	9.137	ppbv	98
9) Propene	1.483	41	72956	6.920	ppbv	99
10) Heptane	4.972	43	201993	6.820	ppbv	98
11) Trichlorofluoromethane	1.874	101	219477	9.494	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.137	101	167879	8.881	ppbv	97
13) Ethanol	1.719	45	3800	2.268	ppbv	96
14) Bromoethene	1.777	108	65024	9.126	ppbv	99
15) Acetone	1.832	43	164938	7.322	ppbv	98
16) 1,3-Butadiene	1.606	39	81350	7.551	ppbv	94
17) tert-Butyl alcohol	2.036	59	228926	8.201	ppbv	99
18) 1,1-Dichloroethene	2.030	96	76914	8.710	ppbv	98
19) Isopropyl Alcohol	1.884	45	103131	8.242	ppbv	99
20) Methylene Chloride	2.059	84	64925	7.360	ppbv	93
21) Allyl Chloride	2.091	41	123726	7.955	ppbv	98
22) trans-1,2-Dichloroethene	2.337	96	87708	8.723	ppbv	92
23) Vinyl Acetate	2.457	43	60750	6.663	ppbv #	96
24) 1,1-Dichloroethane	2.405	63	169635	8.882	ppbv	98
25) Ethyl Acetate	2.832	43	426071	7.672	ppbv	100
26) Hexane	2.823	57	170131	7.570	ppbv	97
27) Carbon Disulfide	2.146	76	208766	8.676	ppbv	98
28) Methyl tert-Butyl Ether	2.434	73	122891	8.345	ppbv	93
29) Chloroform	2.845	83	290070	9.131	ppbv	99
30) Cyclohexane	3.849	84	147689	8.129	ppbv	96
31) cis-1,2-Dichloroethene	2.716	61	184087	8.615	ppbv	97
32) 1,1,1-Trichloroethane	3.363	97	317651	8.882	ppbv	99
34) 2-Butanone	2.554	43	240467	7.208	ppbv	98
35) Carbon Tetrachloride	3.755	117	326652	8.556	ppbv	95
36) Benzene	3.651	78	349571	7.683	ppbv	96
37) 1,2-Dichloroethane	3.214	62	236222	8.650	ppbv	97
38) Trichloroethene	4.538	130	150355	7.561	ppbv	97
39) 1,2-Dichloropropane	4.305	63	122577	7.229	ppbv	94
40) 1,4-Dioxane	4.577	88	63539	6.819	ppbv #	91
41) Tetrahydrofuran	3.049	42	133932	6.885	ppbv	100
42) Bromodichloromethane	4.480	83	324378	8.535	ppbv	98
43) Methyl Methacrylate	4.875	69	142005	6.925	ppbv	97
44) 2,2,4-Trimethylpentane	4.635	57	567587	7.223	ppbv	97
45) t-1,3-Dichloropropene	6.406	75	159210	7.601	ppbv	93

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
 Data File : VL042385.D
 Acq On : 18 Apr 2025 11:38
 Operator : SY/MD
 Sample : VL0418ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0418ABS01

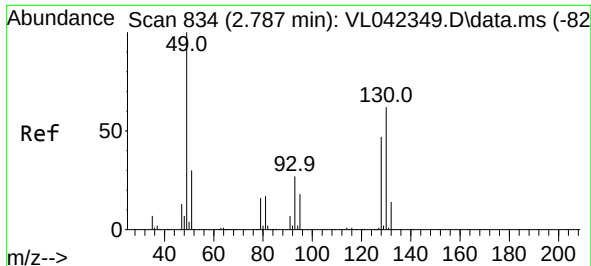
Quant Time: Apr 18 22:56:38 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 02:14:00 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.590	75	192875	7.523	ppbv	90
47) 1,1,2-Trichloroethane	6.574	97	141009	8.163	ppbv	97
48) Dibromochloromethane	7.380	129	267219	8.756	ppbv	99
49) Bromoform	9.477	173	235451	8.823	ppbv	99
50) 4-Methyl-2-Pentanone	5.742	43	357049	6.440	ppbv	100
51) 2-Hexanone	7.432	43	284839	5.729	ppbv	98
52) Tetrachloroethene	8.218	164	134768	7.663	ppbv	97
53) Toluene	6.924	91	416429	7.627	ppbv	100
54) 1,2-Dibromoethane	7.645	107	202809	8.204	ppbv	95
56) 1,1,1,2-Tetrachloroethane	8.917	131	204475	9.093	ppbv	97
57) Chlorobenzene	8.917	112	326071	8.438	ppbv	98
58) Ethyl Benzene	9.351	91	597552	8.117	ppbv	97
59) m/p-Xylene	9.545	91	477953	8.060	ppbv #	29
60) o-Xylene	9.960	91	489890	8.203	ppbv	98
61) Styrene	9.866	104	232960	8.173	ppbv	99
62) Isopropylbenzene	10.536	105	734342	8.376	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.960	83	282429	7.298	ppbv	99
64) n-propylbenzene	10.986	120	184746	8.383	ppbv	96
65) tert-Butylbenzene	11.529	119	665320	8.256	ppbv	92
66) Benzyl Chloride	11.610	91	55103	6.223	ppbv	94
67) sec-Butylbenzene	11.766	105	911164	8.129	ppbv	98
69) p-Isopropyltoluene	11.921	119	799331	8.209	ppbv	99
70) n-Butylbenzene	12.277	91	817538	8.061	ppbv	99
71) 2-Chlorotoluene	10.895	91	562487	8.180	ppbv	98
72) 4-Ethyltoluene	11.121	105	602711	8.256	ppbv	99
73) 1,3,5-Trimethylbenzene	11.199	105	524369	8.135	ppbv	100
74) 1,2,4-Trimethylbenzene	11.533	105	583351	7.749	ppbv #	91
75) 1,3-Dichlorobenzene	11.604	146	335533	8.575	ppbv	99
76) 1,4-Dichlorobenzene	11.668	146	335101	8.520	ppbv	99
77) 1,2-Dichlorobenzene	11.944	146	319466	8.396	ppbv	99
78) Hexachloro-1,3-Butadiene	13.879	225	329813	8.584	ppbv	99
79) Naphthalene	13.510	128	691058	7.676	ppbv	99
80) Naphthalene,2-methyl-	14.455	142	380016	7.407	ppbv	99
81) 1,2,4-Trichlorobenzene	13.436	180	325017	8.408	ppbv	100

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

Quant Time: Apr 18 22:56:38 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

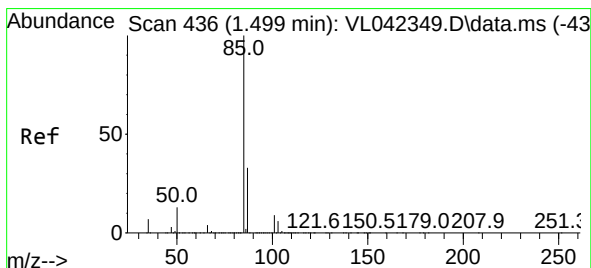
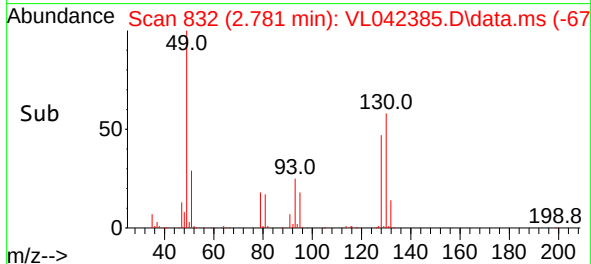
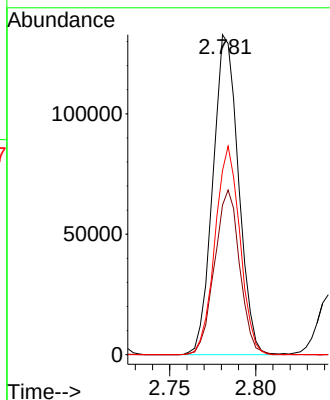
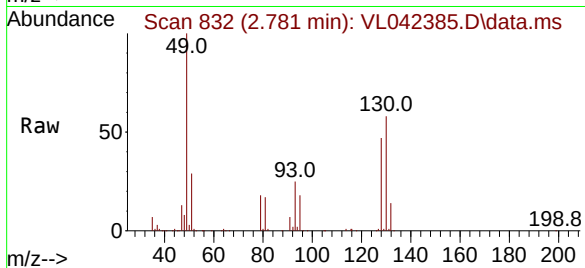




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 81
Delta R.T. -0.006 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

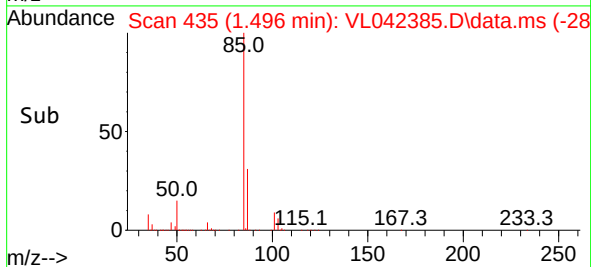
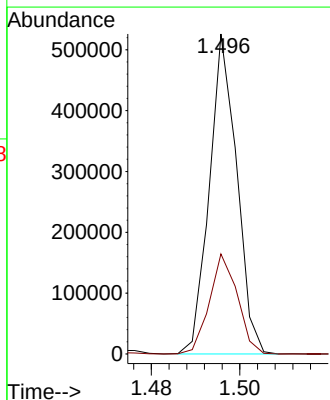
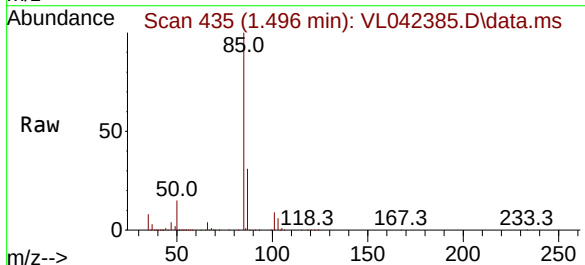
Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

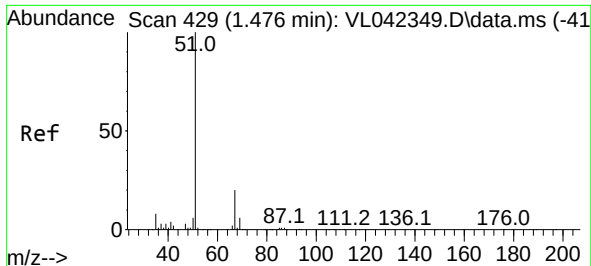
Tgt Ion: 49 Resp: 137596
Ion Ratio Lower Upper
49 100
128 50.6 22.8 68.4
130 63.3 29.3 88.0



#2
Dichlorodifluoromethane
Concen: 9.297 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 85 Resp: 226018
Ion Ratio Lower Upper
85 100
87 31.3 26.6 39.8

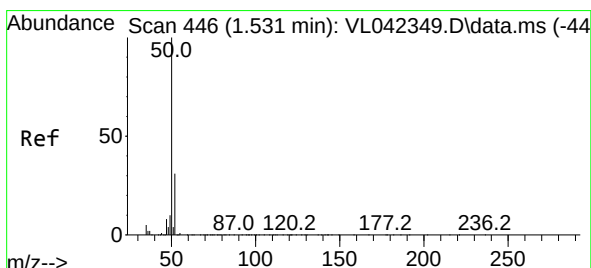
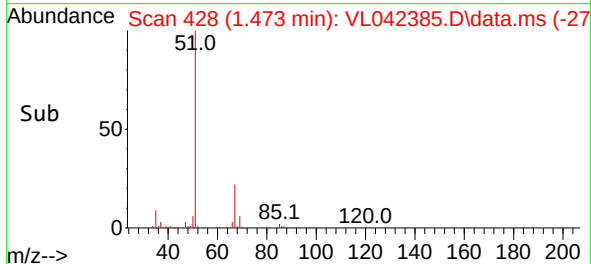
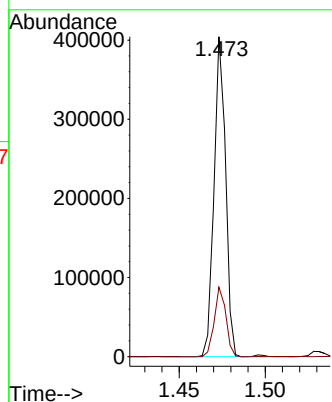
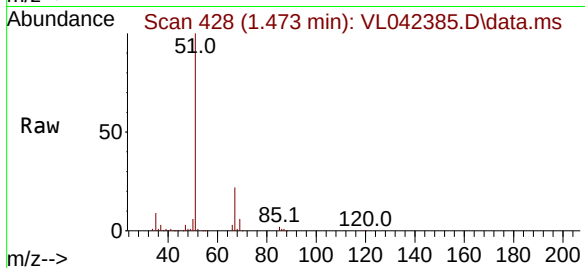




#3
Chlorodifluoromethane
Concen: 8.149 ppbv
RT: 1.473 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

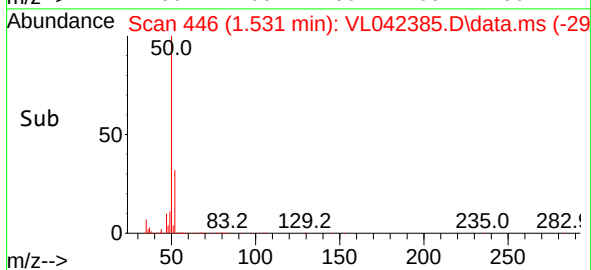
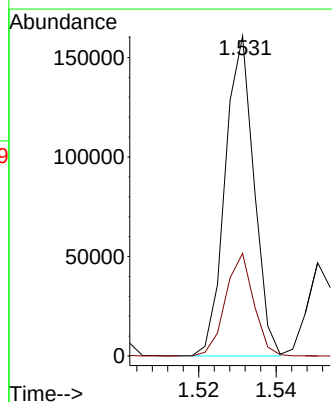
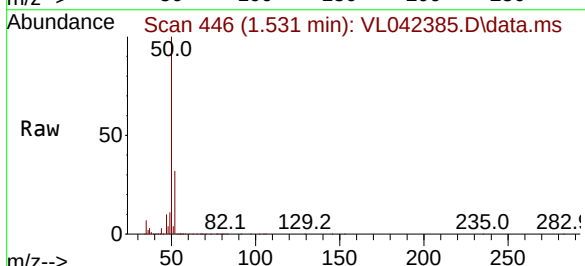
Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

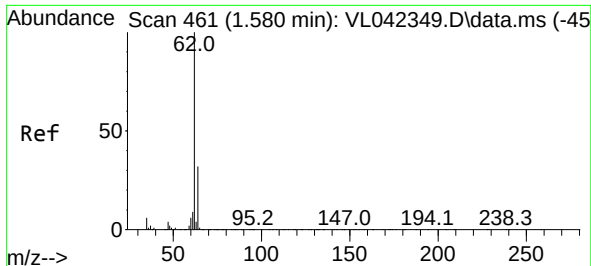
Tgt Ion: 51 Resp: 188655
Ion Ratio Lower Upper
51 100
67 21.8 16.2 24.4



#4
Chloromethane
Concen: 8.636 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 50 Resp: 83080
Ion Ratio Lower Upper
50 100
52 32.1 24.7 37.1

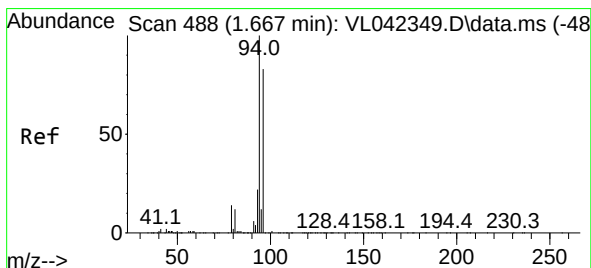
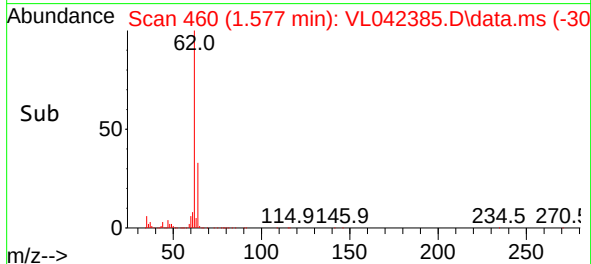
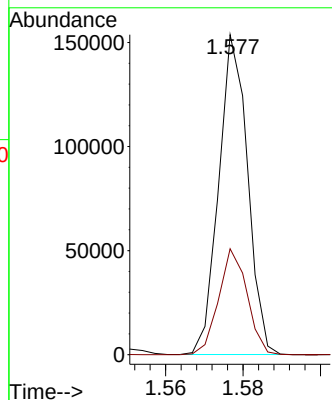
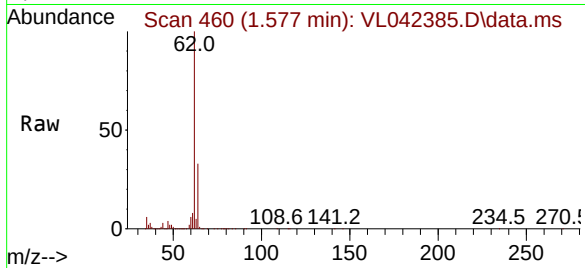




#5
 Vinyl Chloride
 Concen: 7.596 ppbv
 RT: 1.577 min Scan# 460
 Delta R.T. -0.003 min
 Lab File: VL042385.D
 Acq: 18 Apr 2025 11:38

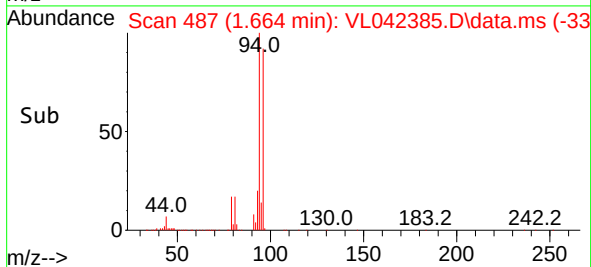
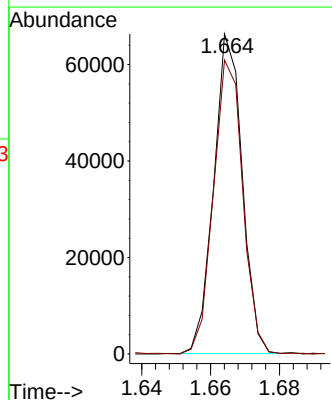
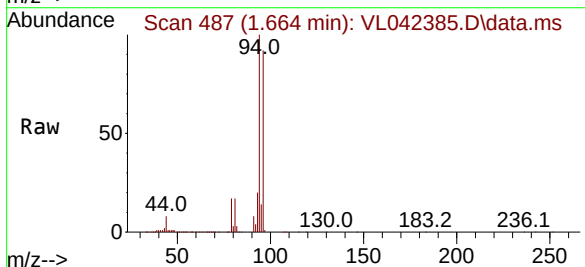
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0418ABS01

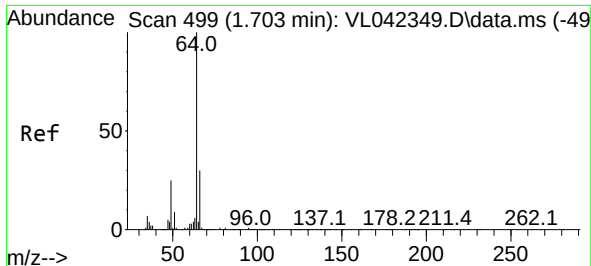
Tgt Ion: 62 Resp: 79548
 Ion Ratio Lower Upper
 62 100
 64 33.1 25.4 38.0



#6
 Bromomethane
 Concen: 8.454 ppbv
 RT: 1.664 min Scan# 487
 Delta R.T. -0.003 min
 Lab File: VL042385.D
 Acq: 18 Apr 2025 11:38

Tgt Ion: 94 Resp: 38033
 Ion Ratio Lower Upper
 94 100
 96 91.9 66.2 99.2

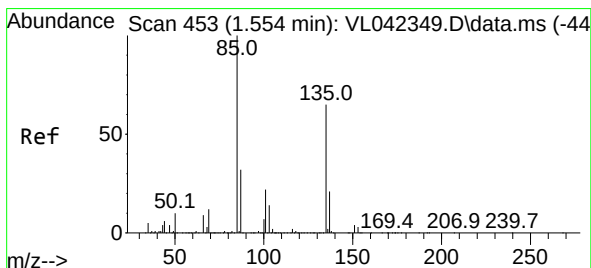
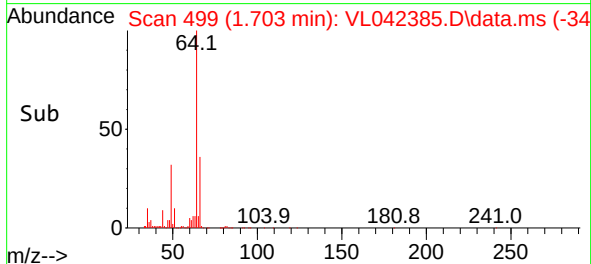
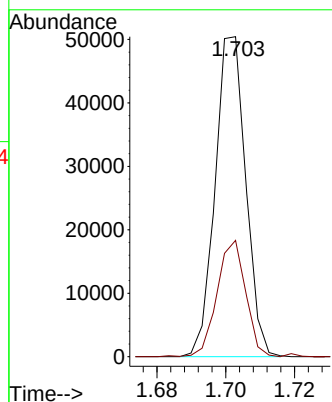
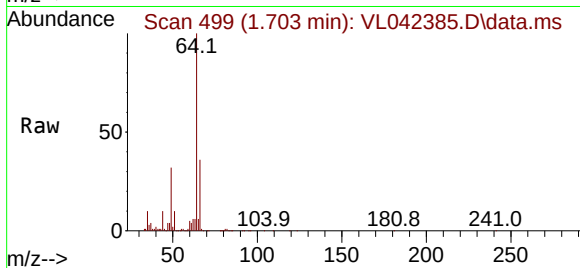




#7
Chloroethane
Concen: 8.263 ppbv
RT: 1.703 min Scan# 499
Delta R.T. 0.000 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

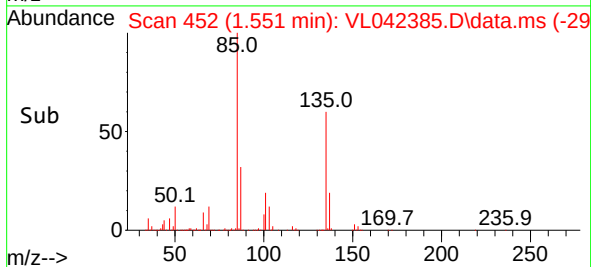
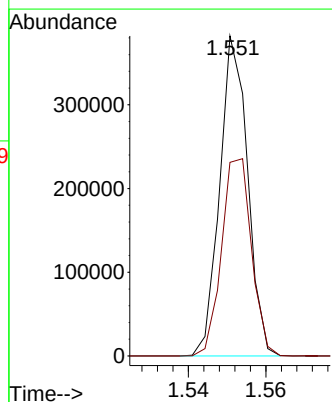
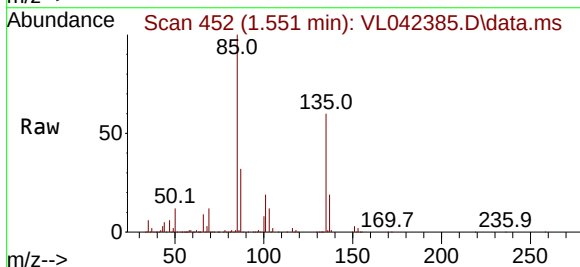
Instrument :
MSVOA_1
ClientSampleId :
VL0418ABS01

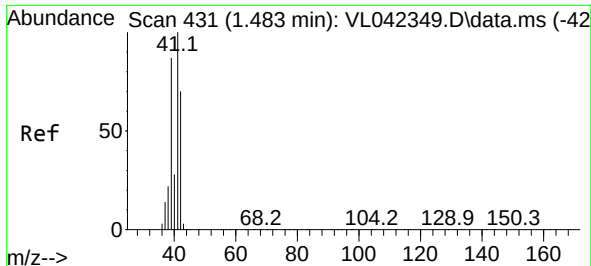
Tgt Ion: 64 Resp: 31293
Ion Ratio Lower Upper
64 100
66 36.4 24.6 37.0



#8
Dichlorotetrafluoroethane
Concen: 9.137 ppbv
RT: 1.551 min Scan# 452
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 85 Resp: 190713
Ion Ratio Lower Upper
85 100
135 66.5 52.2 78.2





#9

Propene

Concen: 6.920 ppbv

RT: 1.483 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL042385.D

Acq: 18 Apr 2025 11:38

Instrument :

MSVOA_1

ClientSampleId :

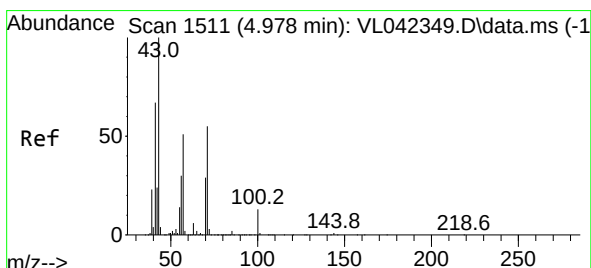
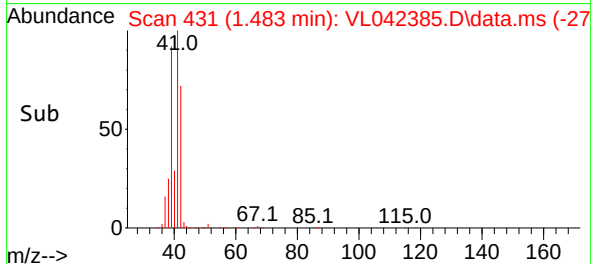
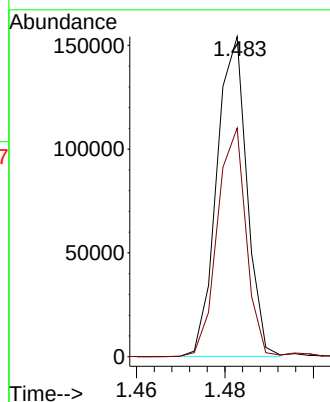
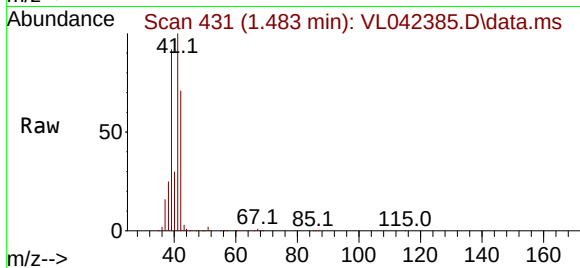
VL0418ABS01

Tgt Ion: 41 Resp: 72956

Ion Ratio Lower Upper

41 100

42 69.5 56.2 84.4



#10

Heptane

Concen: 6.820 ppbv

RT: 4.972 min Scan# 1509

Delta R.T. -0.006 min

Lab File: VL042385.D

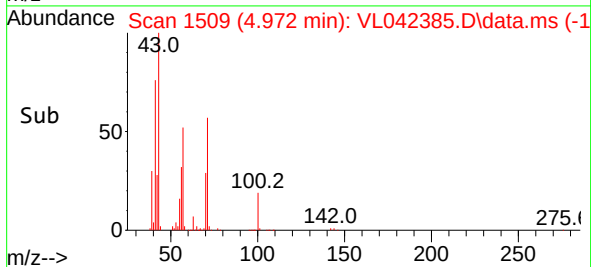
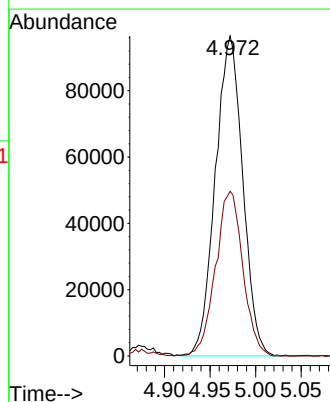
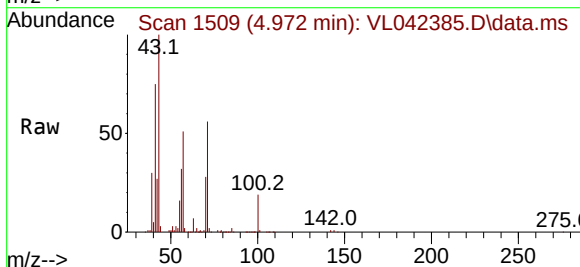
Acq: 18 Apr 2025 11:38

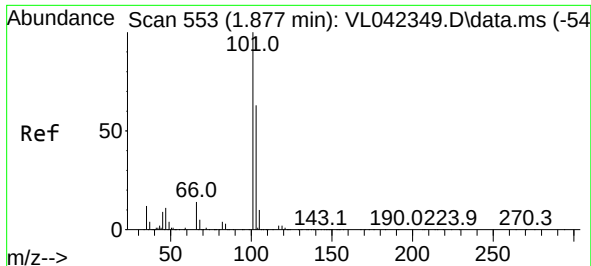
Tgt Ion: 43 Resp: 201993

Ion Ratio Lower Upper

43 100

57 51.3 39.9 59.9

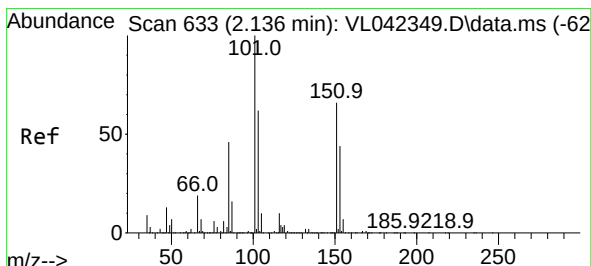
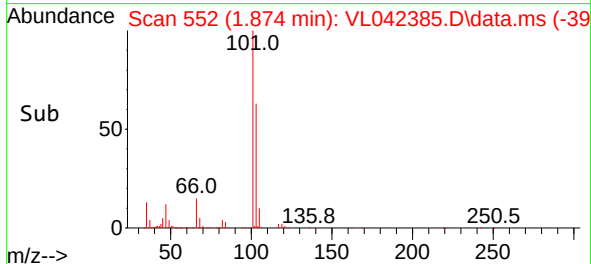
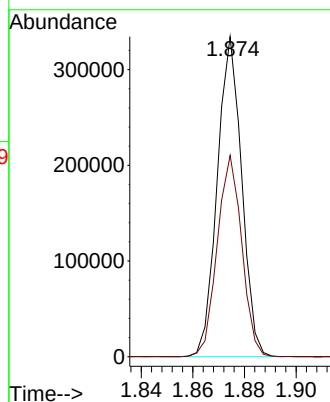
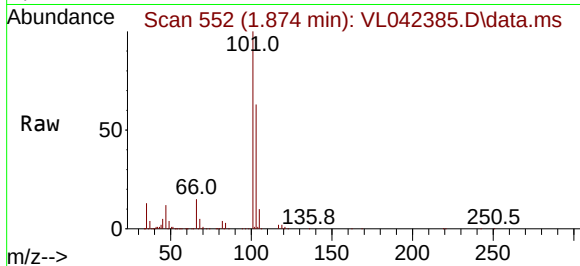




#11
 Trichlorofluoromethane
 Concen: 9.494 ppbv
 RT: 1.874 min Scan# 511
 Delta R.T. -0.003 min
 Lab File: VL042385.D
 Acq: 18 Apr 2025 11:38

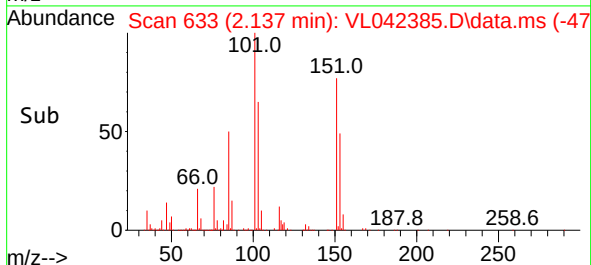
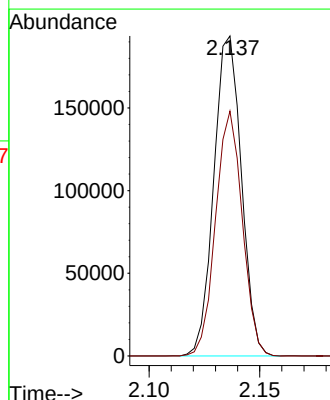
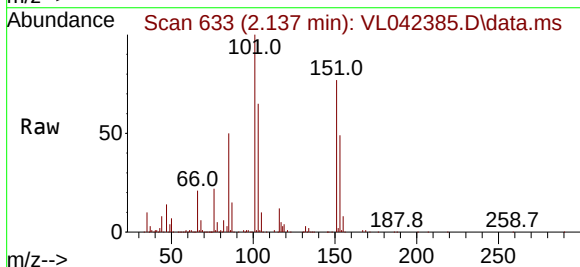
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0418ABS01

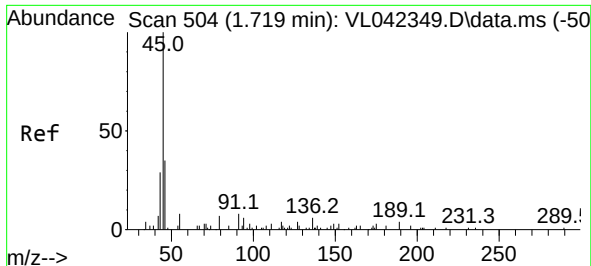
Tgt Ion:101 Resp: 219477
 Ion Ratio Lower Upper
 101 100
 103 62.9 50.1 75.1



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 8.881 ppbv
 RT: 2.137 min Scan# 633
 Delta R.T. 0.000 min
 Lab File: VL042385.D
 Acq: 18 Apr 2025 11:38

Tgt Ion:101 Resp: 167879
 Ion Ratio Lower Upper
 101 100
 151 74.0 57.0 85.6

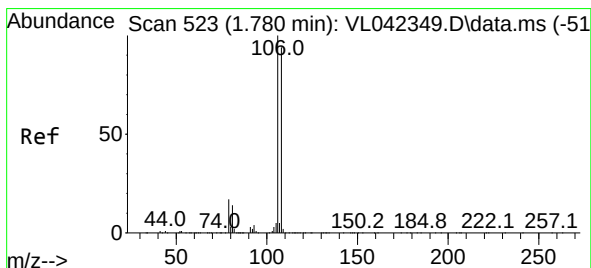
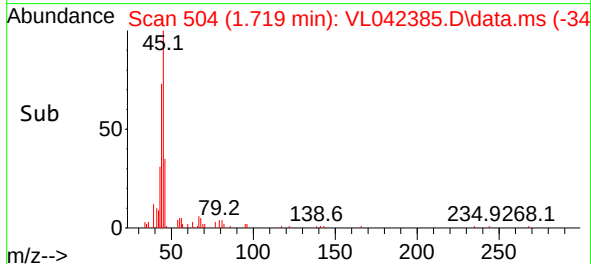
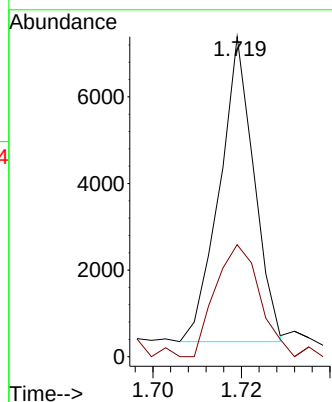
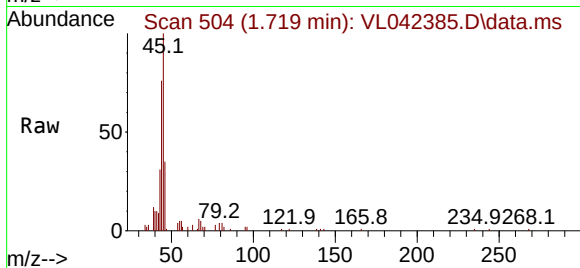




#13
Ethanol
Concen: 2.268 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

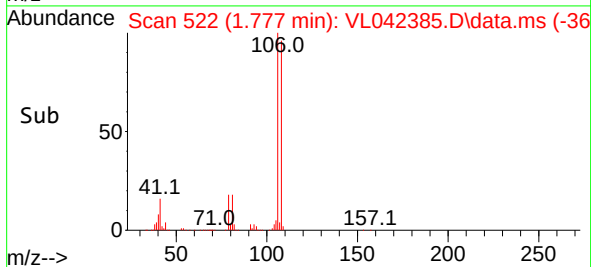
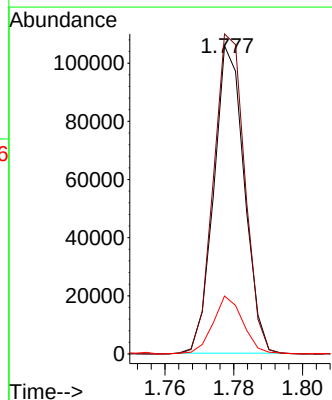
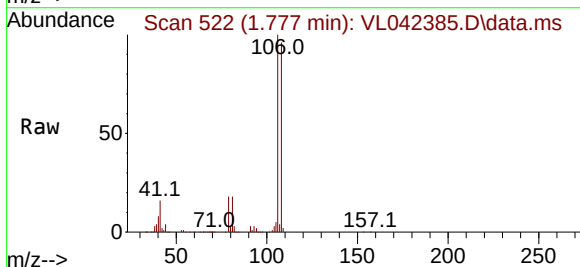
Instrument :
MSVOA_1
ClientSampleId :
VL0418ABS01

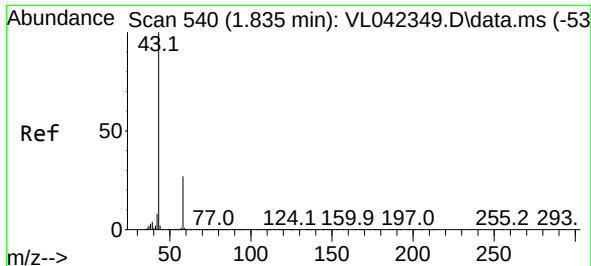
Tgt Ion: 45 Resp: 3800
Ion Ratio Lower Upper
45 100
46 51.6 21.9 87.7



#14
Bromoethene
Concen: 9.126 ppbv
RT: 1.777 min Scan# 522
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 108 Resp: 65024
Ion Ratio Lower Upper
108 100
106 107.2 85.9 128.9
79 19.1 13.9 20.9

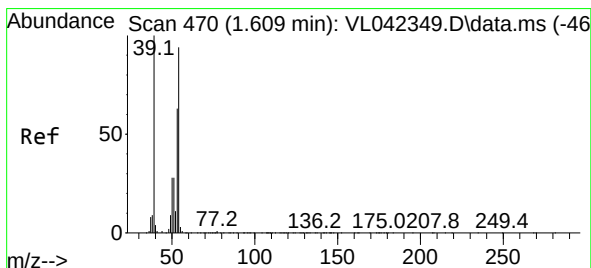
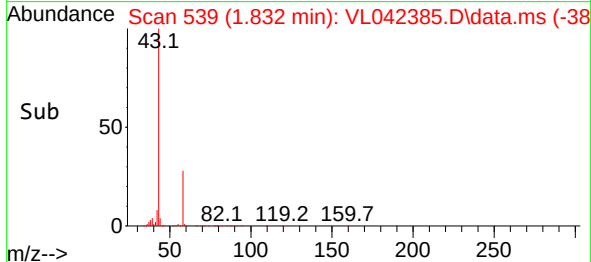
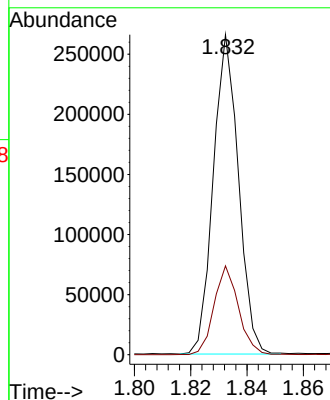
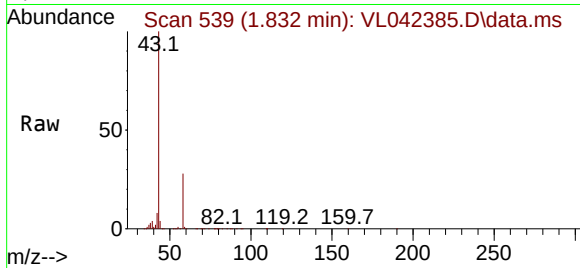




#15
Acetone
Concen: 7.322 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

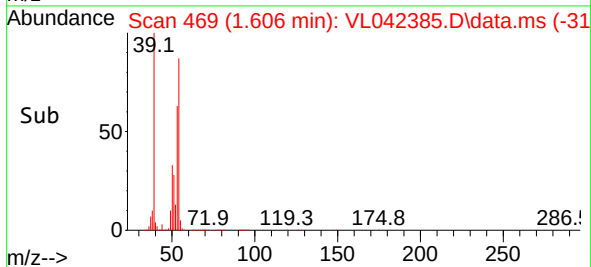
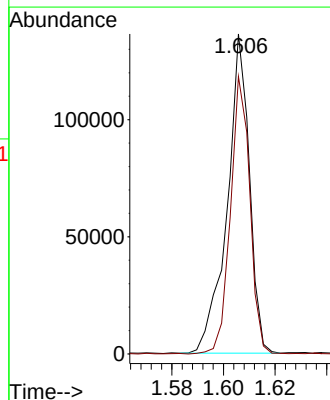
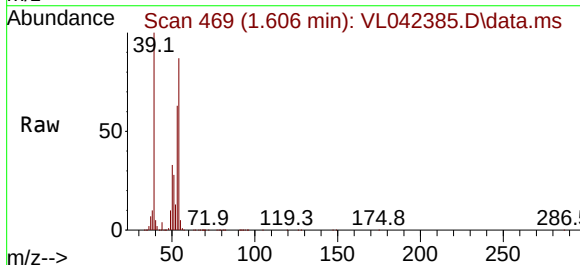
Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

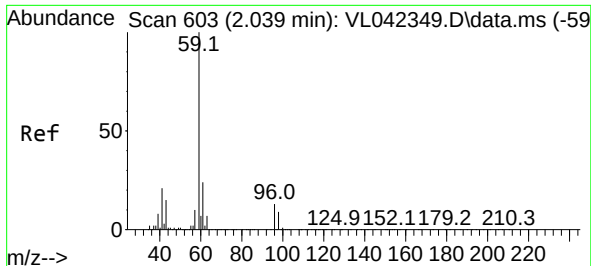
Tgt Ion: 43 Resp: 164938
Ion Ratio Lower Upper
43 100
58 27.0 22.4 33.6



#16
1,3-Butadiene
Concen: 7.551 ppbv
RT: 1.606 min Scan# 469
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 39 Resp: 81350
Ion Ratio Lower Upper
39 100
54 75.9 64.9 97.3





#17

tert-Butyl alcohol

Concen: 8.201 ppbv

RT: 2.036 min Scan# 603

Delta R.T. -0.003 min

Lab File: VL042385.D

Acq: 18 Apr 2025 11:38

Instrument :

MSVOA_L

ClientSampleId :

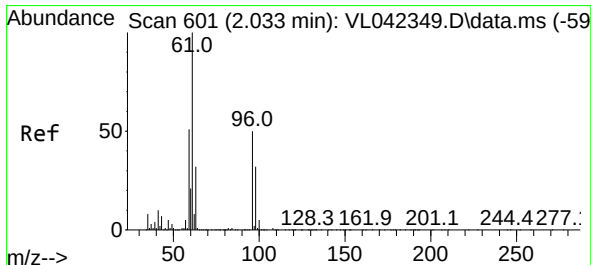
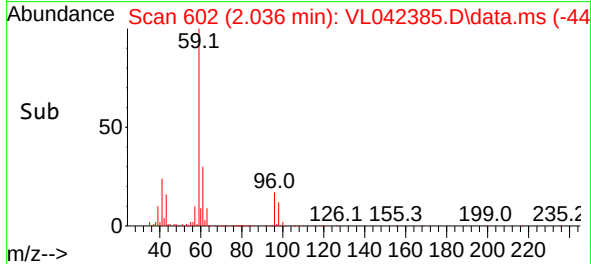
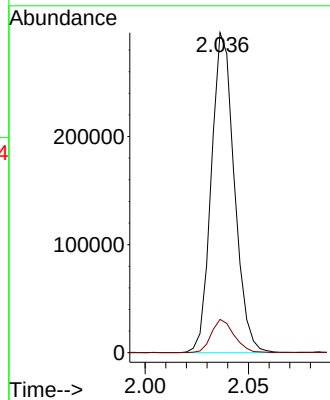
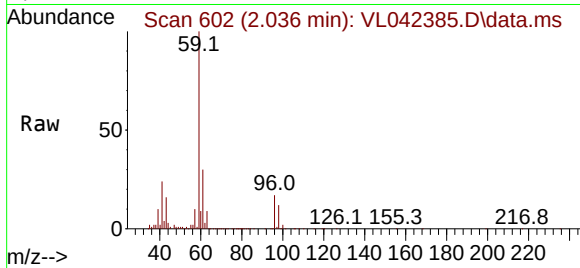
VL0418ABS01

Tgt Ion: 59 Resp: 228926

Ion Ratio Lower Upper

59 100

57 10.7 8.7 13.1



#18

1,1-Dichloroethene

Concen: 8.710 ppbv

RT: 2.030 min Scan# 600

Delta R.T. -0.003 min

Lab File: VL042385.D

Acq: 18 Apr 2025 11:38

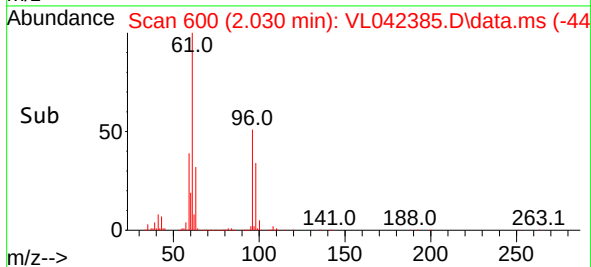
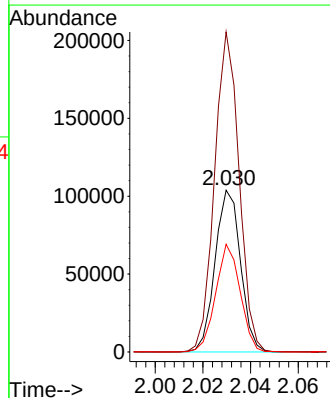
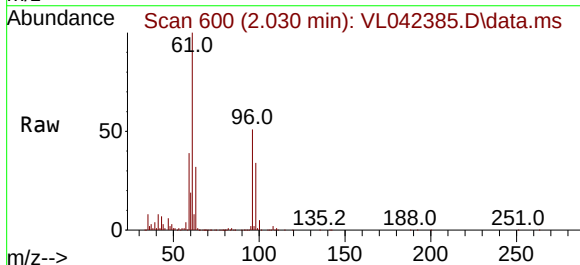
Tgt Ion: 96 Resp: 76914

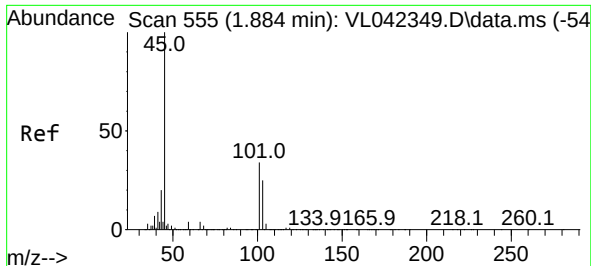
Ion Ratio Lower Upper

96 100

61 197.8 160.2 240.2

98 66.6 51.0 76.4

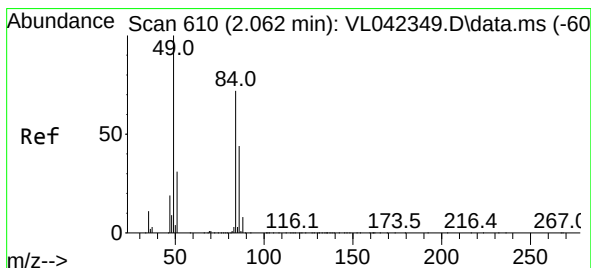
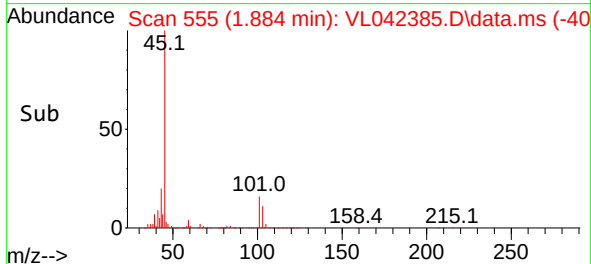
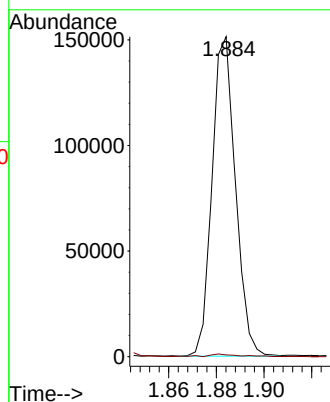
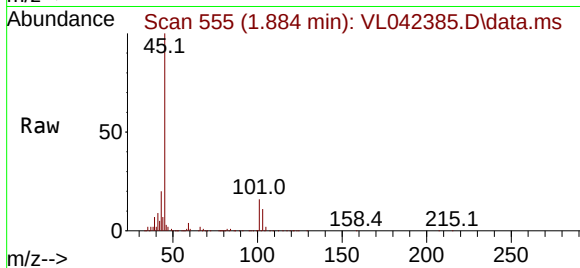




#19
Isopropyl Alcohol
Concen: 8.242 ppbv
RT: 1.884 min Scan# 511
Delta R.T. 0.000 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

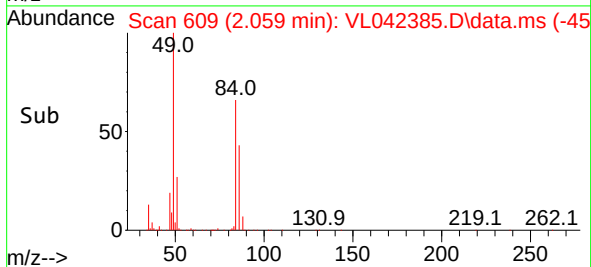
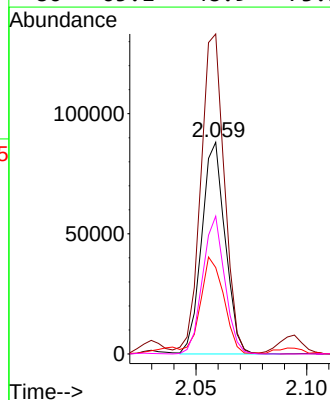
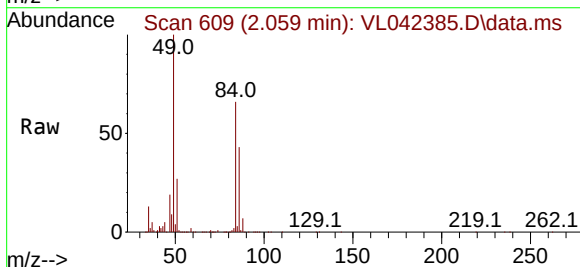
Instrument :
MSVOA_1
ClientSampleId :
VL0418ABS01

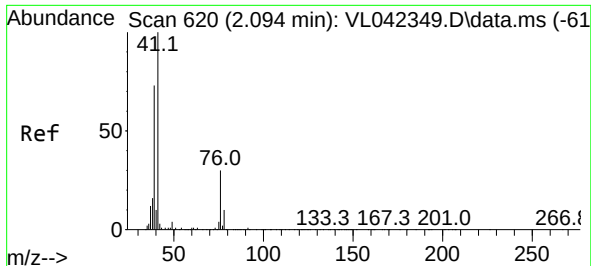
Tgt Ion: 45 Resp: 103131
Ion Ratio Lower Upper
45 100
58 43.5 34.5 51.7



#20
Methylene Chloride
Concen: 7.360 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 84 Resp: 64925
Ion Ratio Lower Upper
84 100
49 148.0 111.6 167.4
51 39.0 35.1 52.7
86 65.1 48.9 73.3

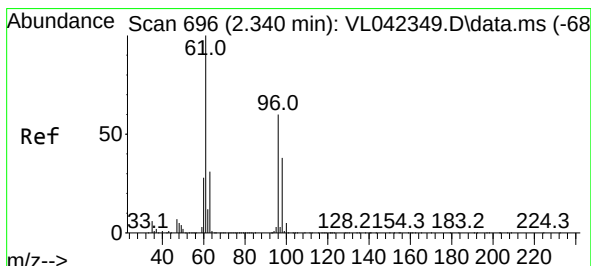
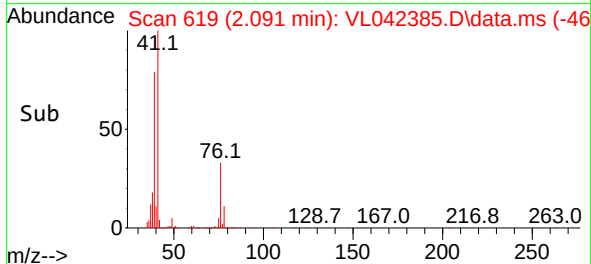
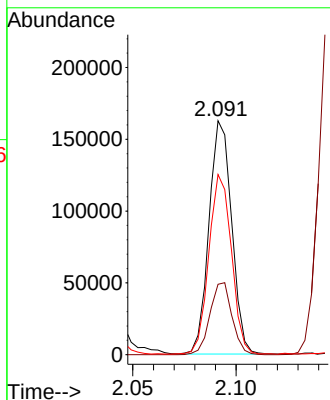
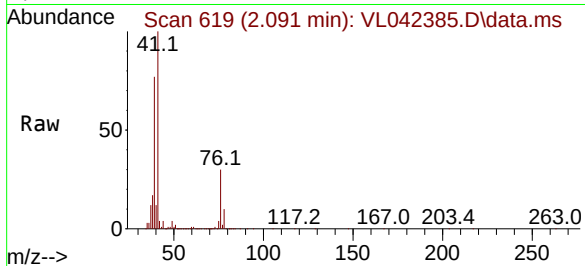




#21
 Allyl Chloride
 Concen: 7.955 ppbv
 RT: 2.091 min Scan# 619
 Delta R.T. -0.003 min
 Lab File: VL042385.D
 Acq: 18 Apr 2025 11:38

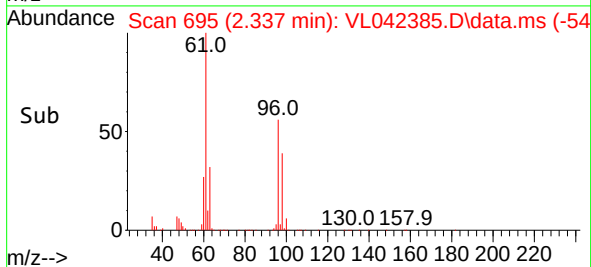
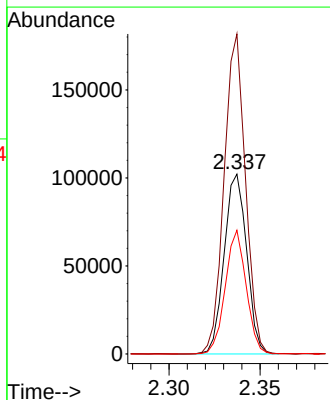
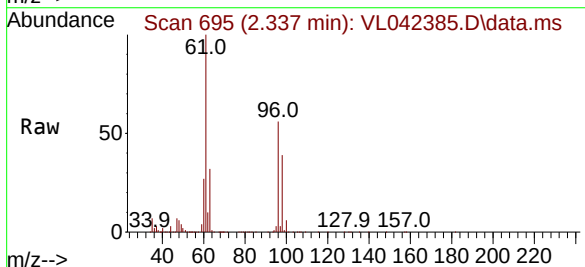
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0418ABS01

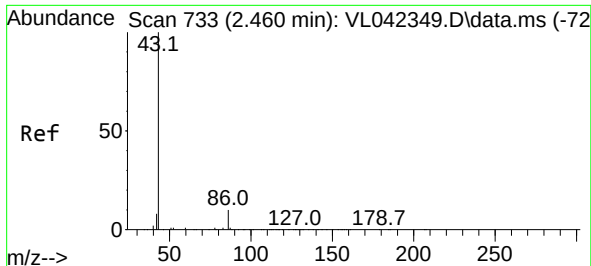
Tgt Ion: 41 Resp: 123726
 Ion Ratio Lower Upper
 41 100
 76 30.0 24.8 37.2
 39 76.9 60.6 90.8



#22
 trans-1,2-Dichloroethene
 Concen: 8.723 ppbv
 RT: 2.337 min Scan# 695
 Delta R.T. -0.003 min
 Lab File: VL042385.D
 Acq: 18 Apr 2025 11:38

Tgt Ion: 96 Resp: 87708
 Ion Ratio Lower Upper
 96 100
 61 177.9 133.7 200.5
 98 68.8 50.3 75.5

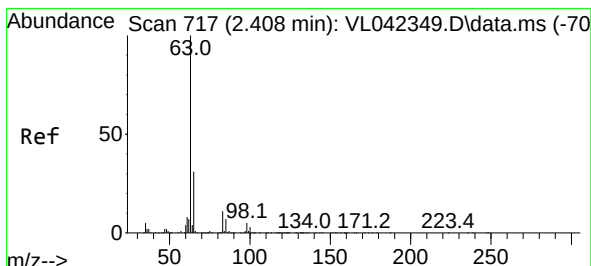
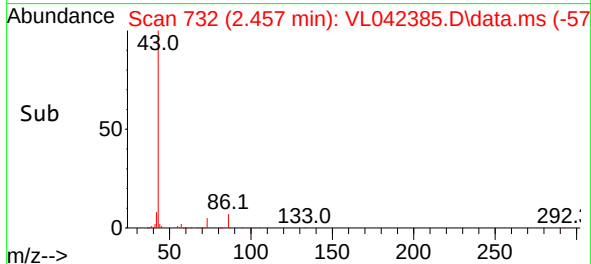
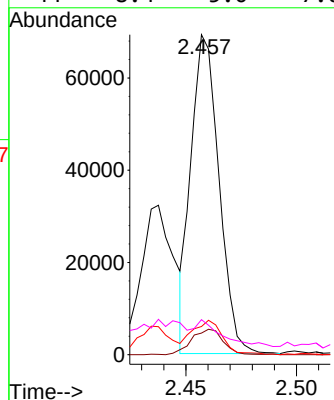
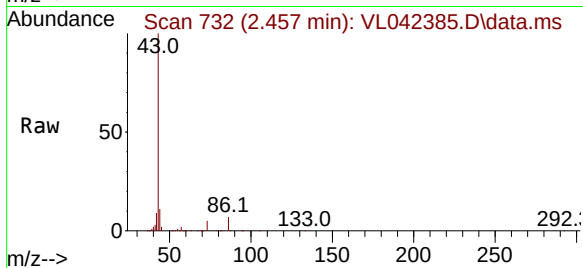




#23
 Vinyl Acetate
 Concen: 6.663 ppbv
 RT: 2.457 min Scan# 716
 Delta R.T. -0.003 min
 Lab File: VL042385.D
 Acq: 18 Apr 2025 11:38

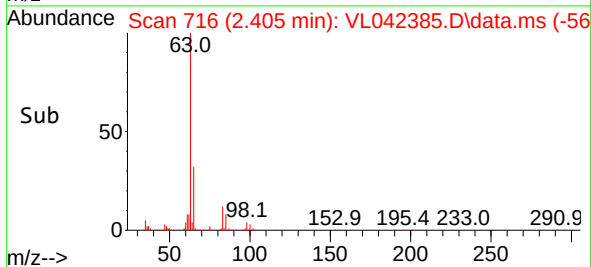
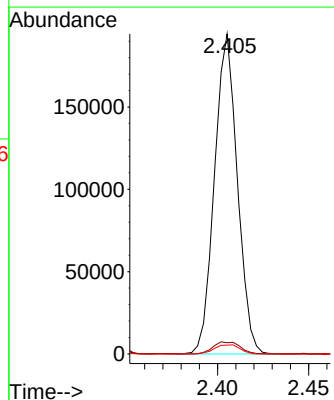
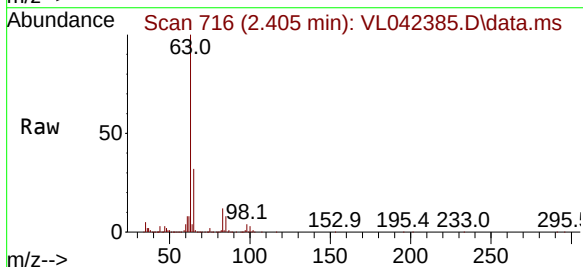
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0418ABS01

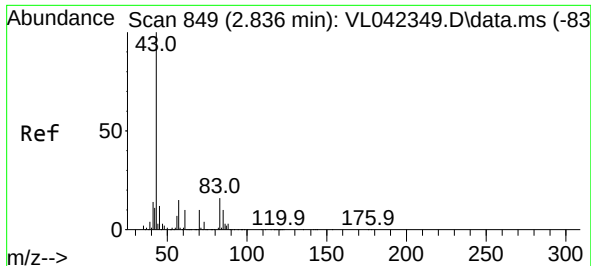
Tgt Ion:	43	Resp:	60750
Ion	Ratio	Lower	Upper
43	100		
86	6.8	6.5	9.7
42	8.8	7.8	11.8
44	8.4	5.0	7.6



#24
 1,1-Dichloroethane
 Concen: 8.882 ppbv
 RT: 2.405 min Scan# 716
 Delta R.T. -0.003 min
 Lab File: VL042385.D
 Acq: 18 Apr 2025 11:38

Tgt Ion:	63	Resp:	169635
Ion	Ratio	Lower	Upper
63	100		
98	3.5	2.3	6.8
100	2.8	1.6	4.8

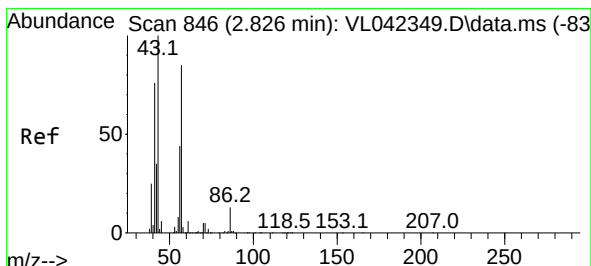
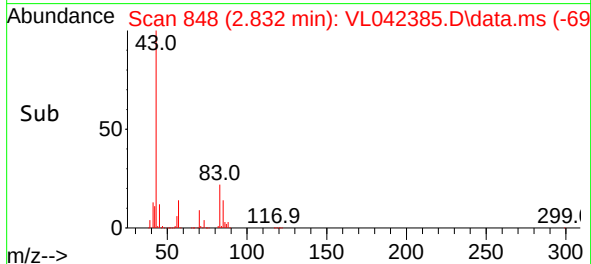
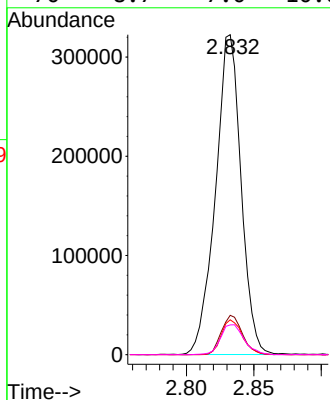
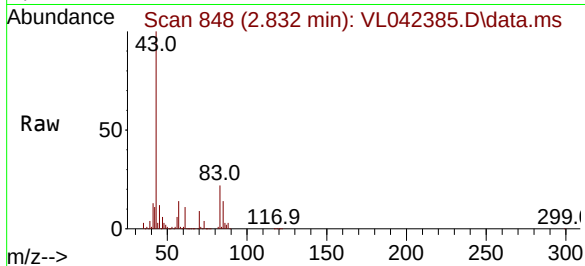




#25
Ethyl Acetate
Concen: 7.672 ppbv
RT: 2.832 min Scan# 84
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

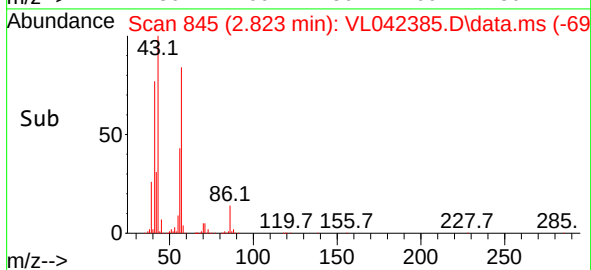
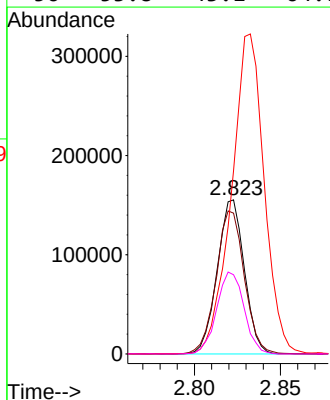
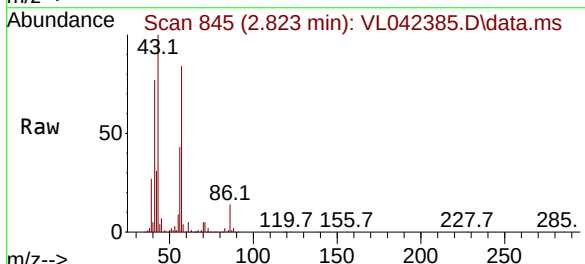
Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

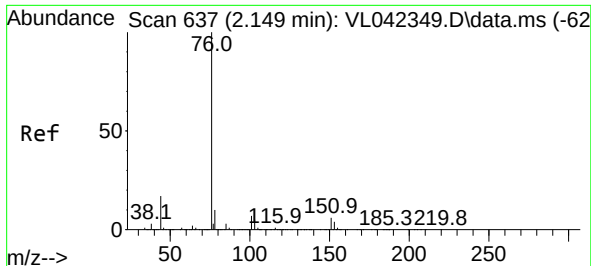
Tgt Ion: 43 Resp: 426071
Ion Ratio Lower Upper
43 100
45 10.2 8.3 12.5
61 9.1 7.3 10.9
70 8.7 7.0 10.6



#26
Hexane
Concen: 7.570 ppbv
RT: 2.823 min Scan# 845
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 57 Resp: 170131
Ion Ratio Lower Upper
57 100
41 97.1 77.9 116.9
43 251.0 208.4 312.6
56 53.8 43.1 64.7

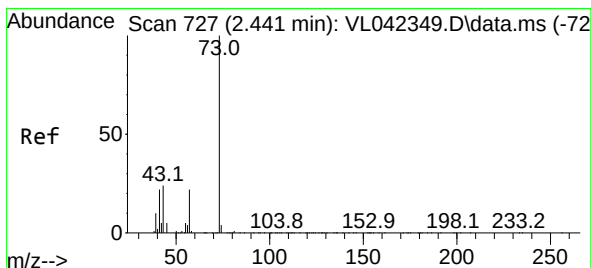
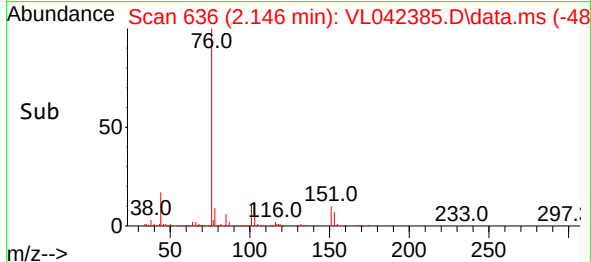
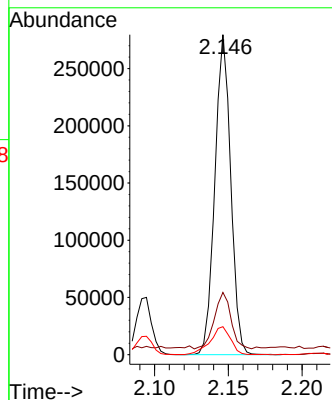
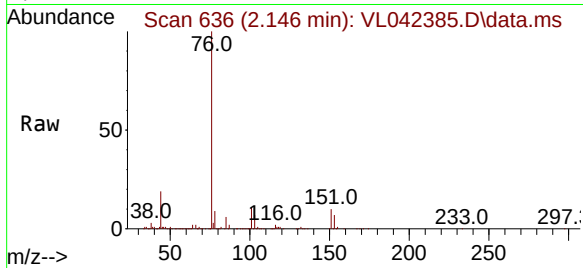




#27
Carbon Disulfide
Concen: 8.676 ppbv
RT: 2.146 min Scan# 61
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

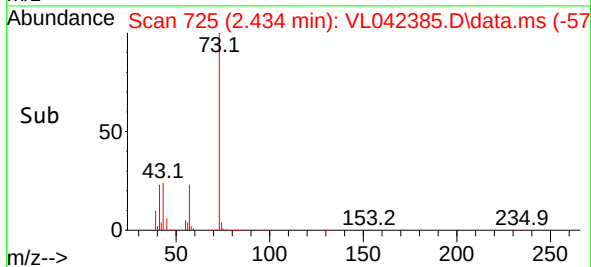
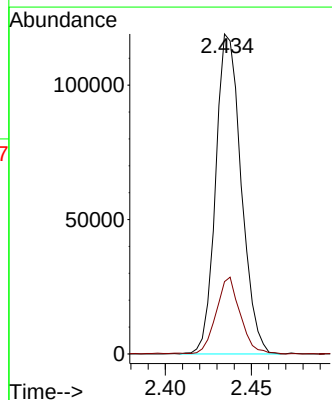
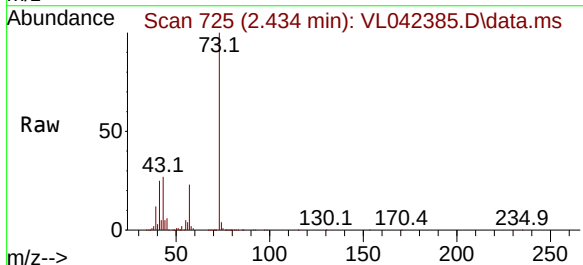
Instrument :
MSVOA_1
ClientSampleId :
VL0418ABS01

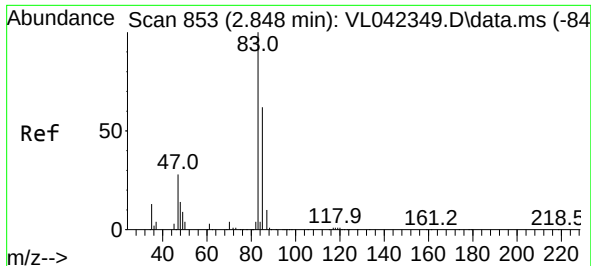
Tgt Ion: 76 Resp: 208766
Ion Ratio Lower Upper
76 100
44 17.8 15.5 23.3
78 11.3 9.3 13.9



#28
Methyl tert-Butyl Ether
Concen: 8.345 ppbv
RT: 2.434 min Scan# 725
Delta R.T. -0.006 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 73 Resp: 122891
Ion Ratio Lower Upper
73 100
57 22.9 21.3 31.9





#29

Chloroform

Concen: 9.131 ppbv

RT: 2.845 min Scan# 81

Delta R.T. -0.003 min

Lab File: VL042385.D

Acq: 18 Apr 2025 11:38

Instrument :

MSVOA_L

ClientSampleId :

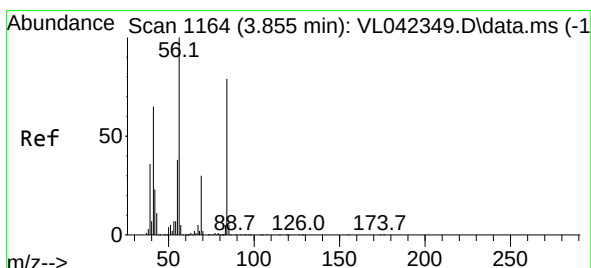
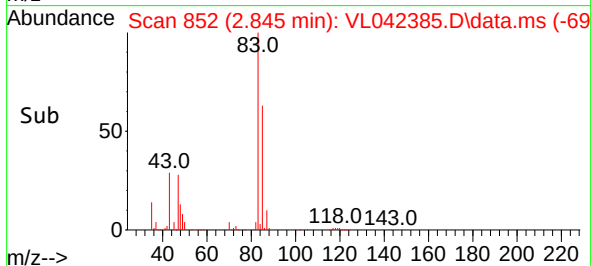
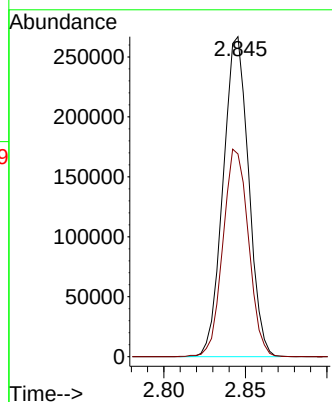
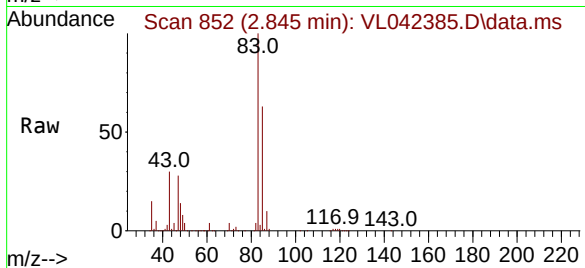
VL0418ABS01

Tgt Ion: 83 Resp: 290070

Ion Ratio Lower Upper

83 100

85 63.2 50.0 75.0



#30

Cyclohexane

Concen: 8.129 ppbv

RT: 3.849 min Scan# 1162

Delta R.T. -0.006 min

Lab File: VL042385.D

Acq: 18 Apr 2025 11:38

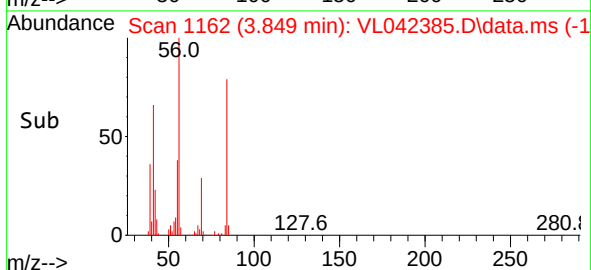
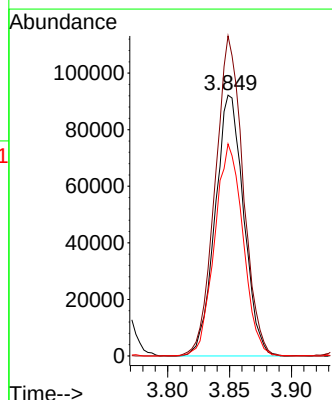
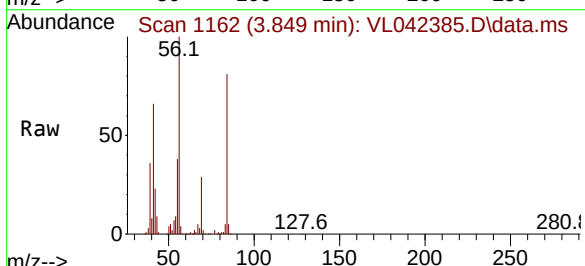
Tgt Ion: 84 Resp: 147689

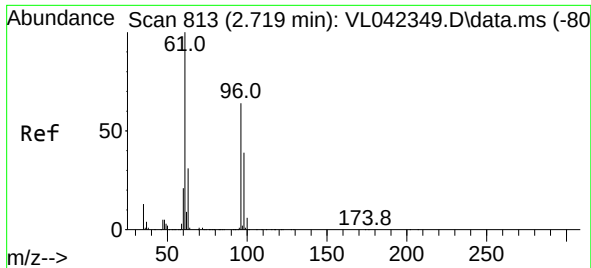
Ion Ratio Lower Upper

84 100

56 120.4 101.0 151.4

41 81.3 67.4 101.0

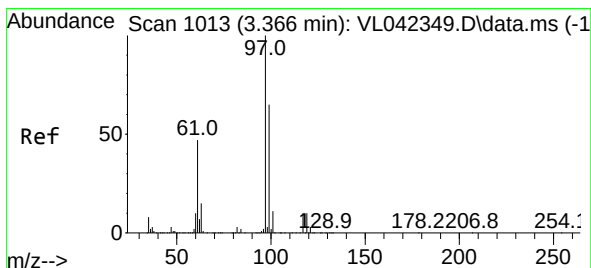
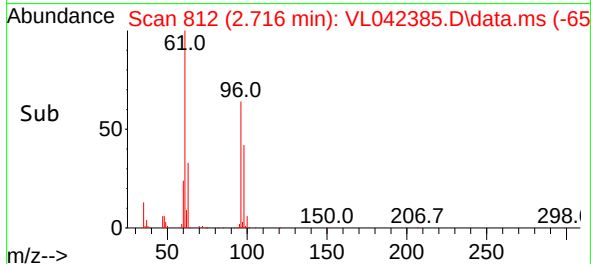
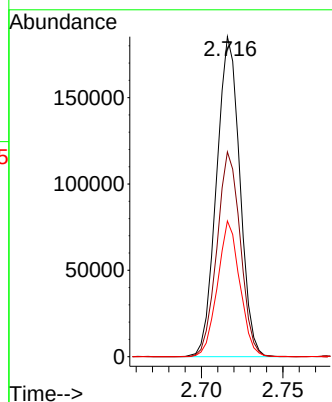
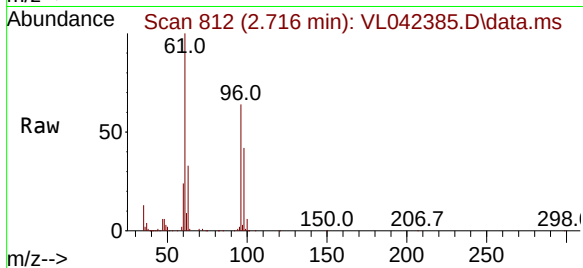




#31
 cis-1,2-Dichloroethene
 Concen: 8.615 ppbv
 RT: 2.716 min Scan# 81
 Delta R.T. -0.003 min
 Lab File: VL042385.D
 Acq: 18 Apr 2025 11:38

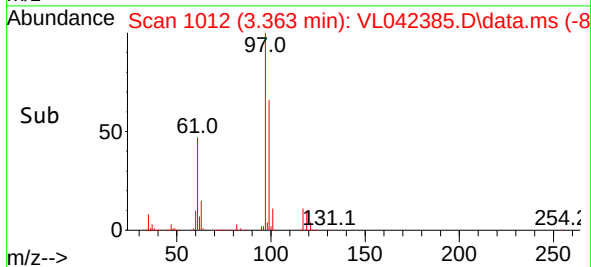
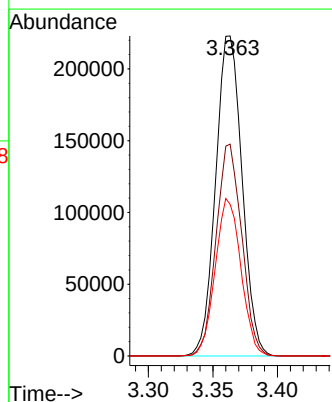
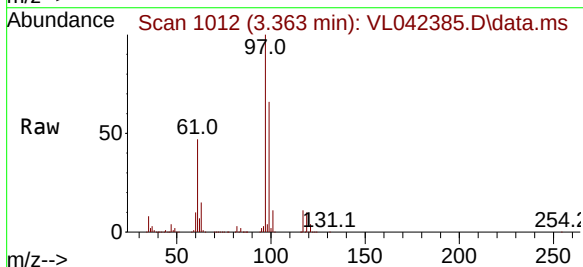
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0418ABS01

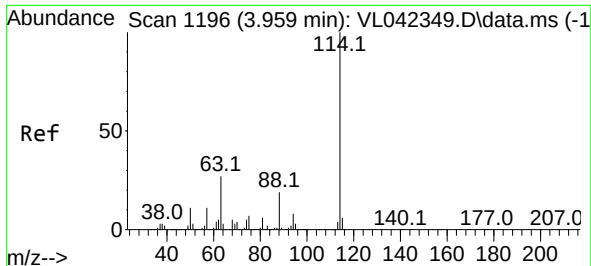
Tgt Ion: 61 Resp: 184087
 Ion Ratio Lower Upper
 61 100
 96 64.0 50.8 76.2
 98 42.4 30.9 46.3



#32
 1,1,1-Trichloroethane
 Concen: 8.882 ppbv
 RT: 3.363 min Scan# 1012
 Delta R.T. -0.003 min
 Lab File: VL042385.D
 Acq: 18 Apr 2025 11:38

Tgt Ion: 97 Resp: 317651
 Ion Ratio Lower Upper
 97 100
 99 64.2 51.0 76.4
 61 48.0 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: VL042385.D

Acq: 18 Apr 2025 11:38

Instrument :

MSVOA_1

ClientSampleId :

VL0418ABS01

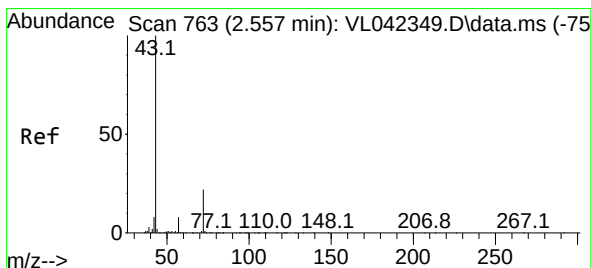
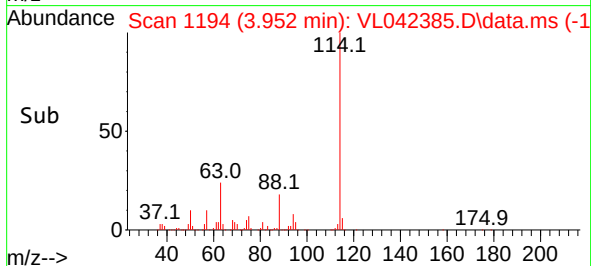
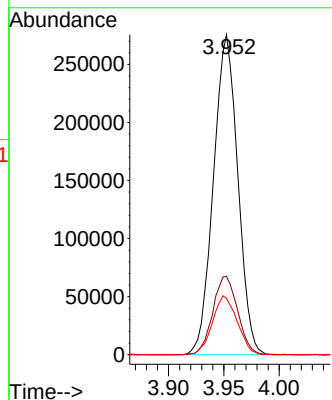
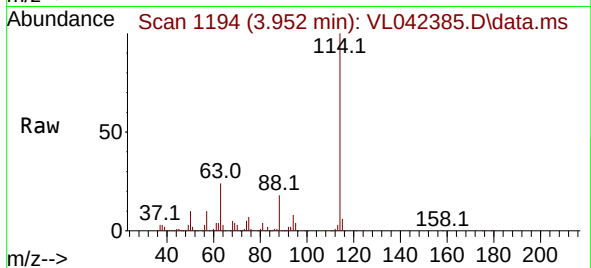
Tgt Ion:114 Resp: 421834

Ion Ratio Lower Upper

114 100

63 25.0 21.8 32.6

88 18.7 15.5 23.3



#34

2-Butanone

Concen: 7.208 ppbv

RT: 2.554 min Scan# 762

Delta R.T. -0.003 min

Lab File: VL042385.D

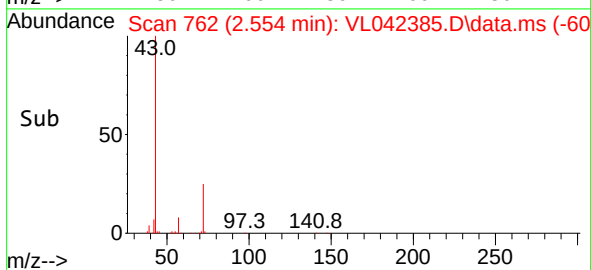
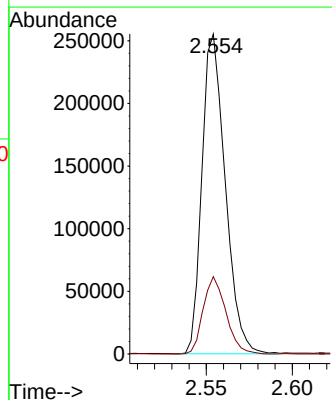
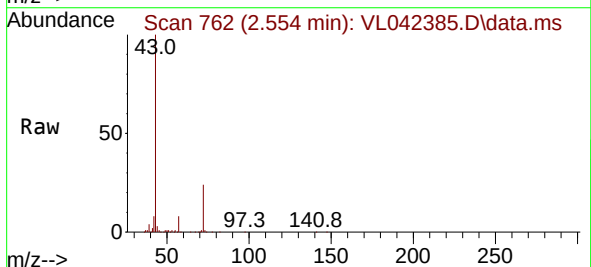
Acq: 18 Apr 2025 11:38

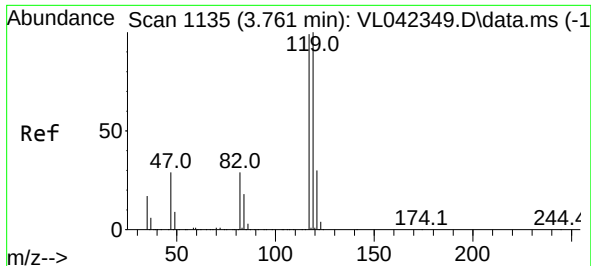
Tgt Ion: 43 Resp: 240467

Ion Ratio Lower Upper

43 100

72 23.6 18.2 27.2

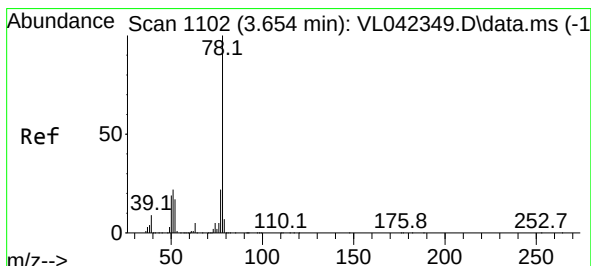
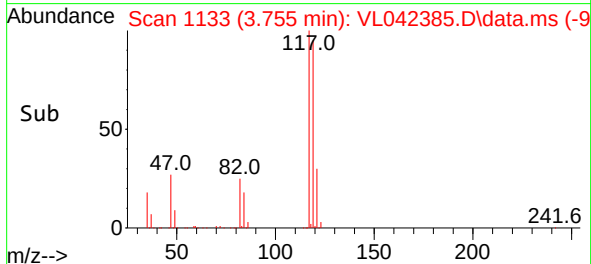
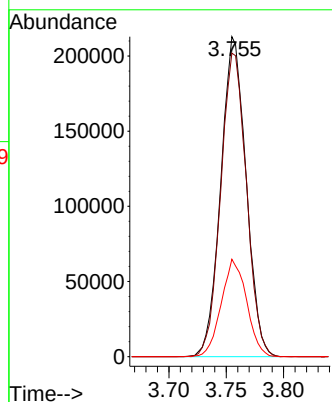
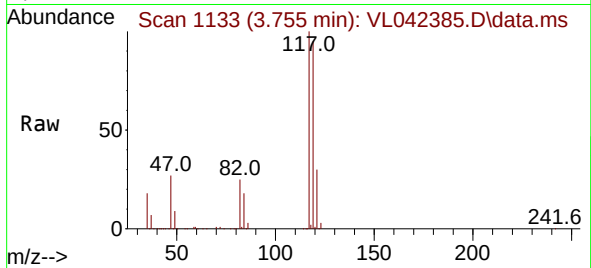




#35
Carbon Tetrachloride
Concen: 8.556 ppbv
RT: 3.755 min Scan# 1133
Delta R.T. -0.006 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

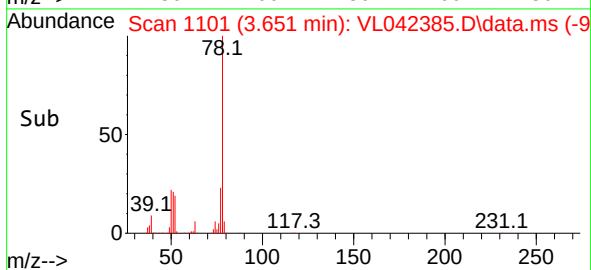
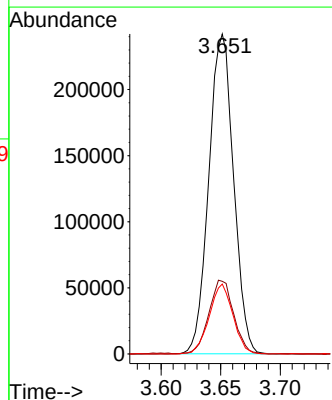
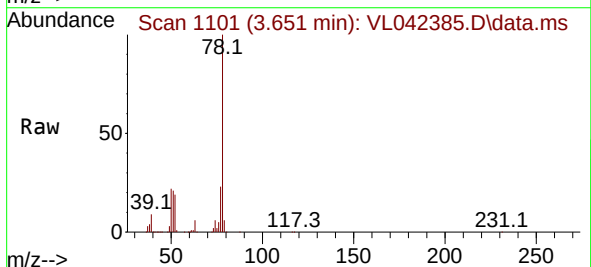
Instrument :
MSVOA_1
ClientSampleId :
VL0418ABS01

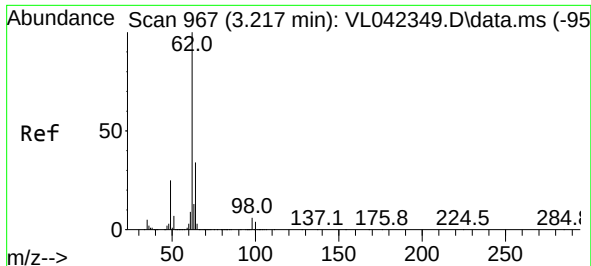
Tgt Ion:117 Resp: 326652
Ion Ratio Lower Upper
117 100
119 94.8 80.5 120.7
121 30.4 24.2 36.2



#36
Benzene
Concen: 7.683 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 78 Resp: 349571
Ion Ratio Lower Upper
78 100
77 22.7 17.4 26.0
50 21.8 15.5 23.3





#37

1,2-Dichloroethane

Concen: 8.650 ppbv

RT: 3.214 min Scan# 9

Delta R.T. -0.003 min

Lab File: VL042385.D

Acq: 18 Apr 2025 11:38

Instrument :

MSVOA_L

ClientSampleId :

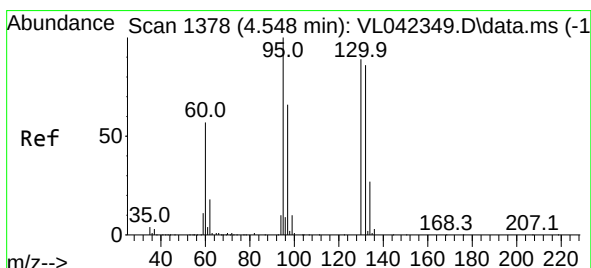
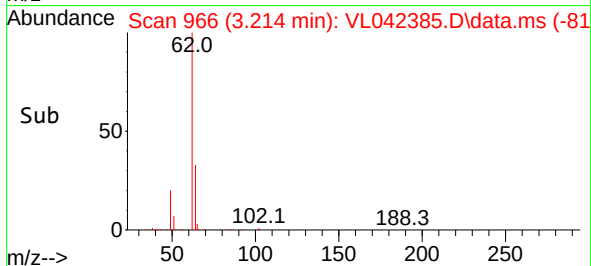
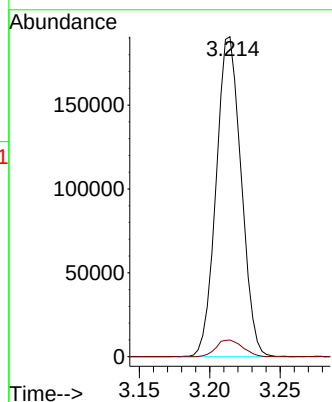
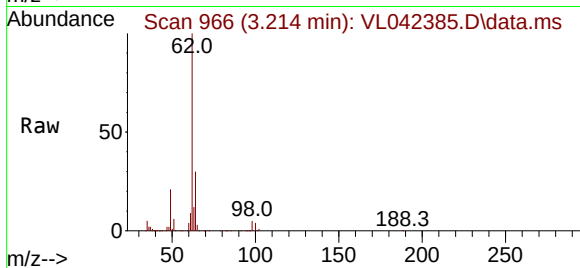
VL0418ABS01

Tgt Ion: 62 Resp: 236222

Ion Ratio Lower Upper

62 100

98 5.5 5.1 7.7



#38

Trichloroethene

Concen: 7.561 ppbv

RT: 4.538 min Scan# 1375

Delta R.T. -0.010 min

Lab File: VL042385.D

Acq: 18 Apr 2025 11:38

Tgt Ion:130 Resp: 150355

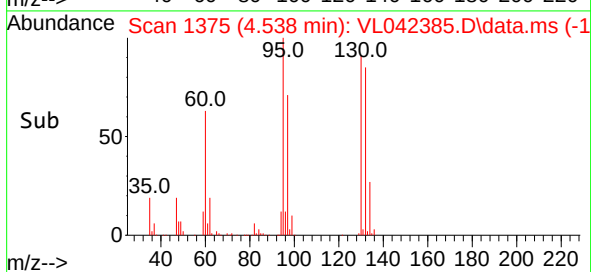
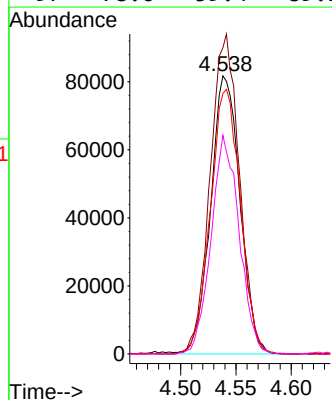
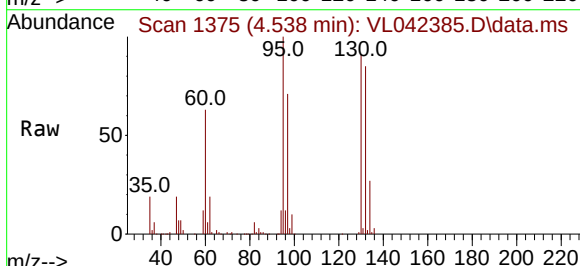
Ion Ratio Lower Upper

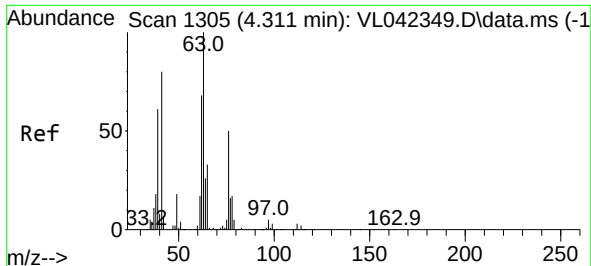
130 100

95 110.0 89.8 134.6

132 93.4 77.7 116.5

97 78.6 59.4 89.2





#39

1,2-Dichloropropane

Concen: 7.229 ppbv

RT: 4.305 min Scan# 1

Delta R.T. -0.006 min

Lab File: VL042385.D

Acq: 18 Apr 2025 11:38

Instrument :

MSVOA_L

ClientSampleId :

VL0418ABS01

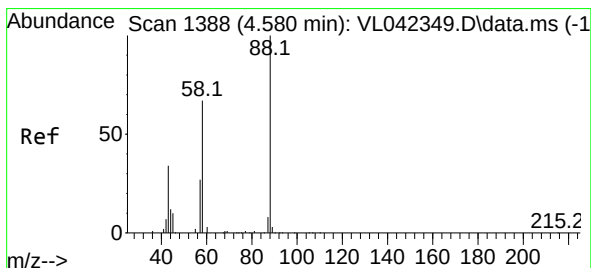
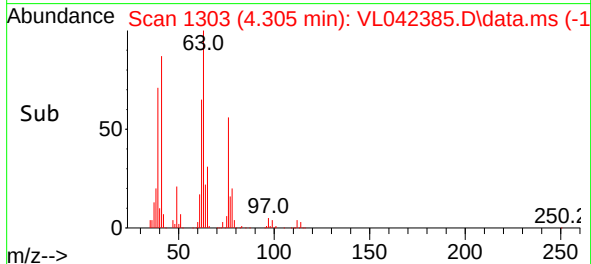
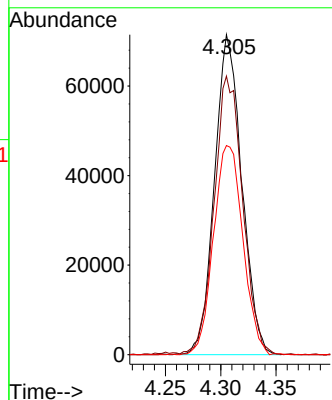
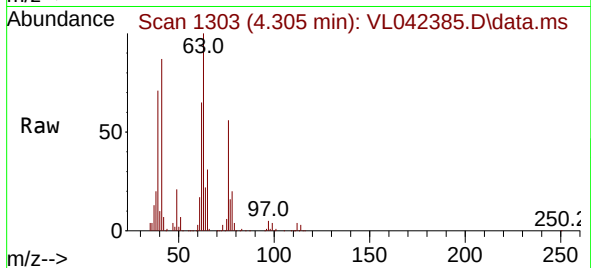
Tgt Ion: 63 Resp: 122577

Ion Ratio Lower Upper

63 100

41 86.9 64.2 96.2

62 65.3 54.3 81.5



#40

1,4-Dioxane

Concen: 6.819 ppbv

RT: 4.577 min Scan# 1387

Delta R.T. -0.003 min

Lab File: VL042385.D

Acq: 18 Apr 2025 11:38

Tgt Ion: 88 Resp: 63539

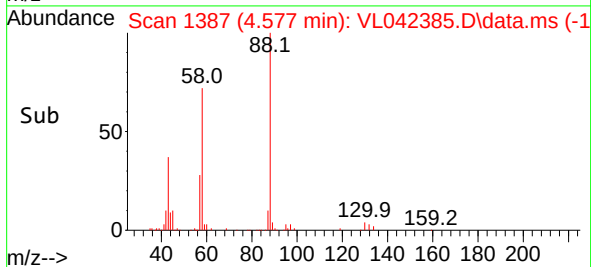
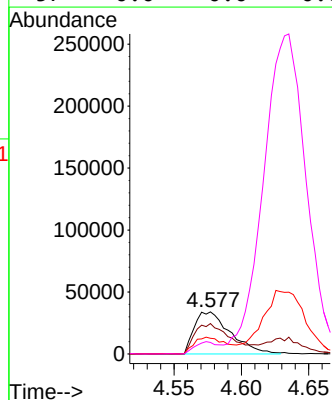
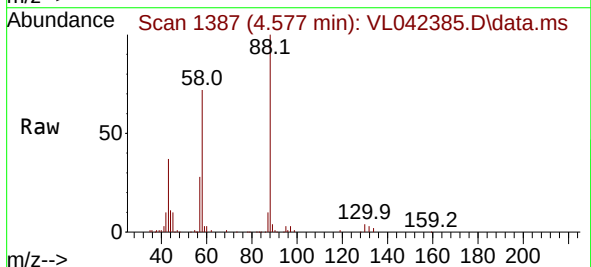
Ion Ratio Lower Upper

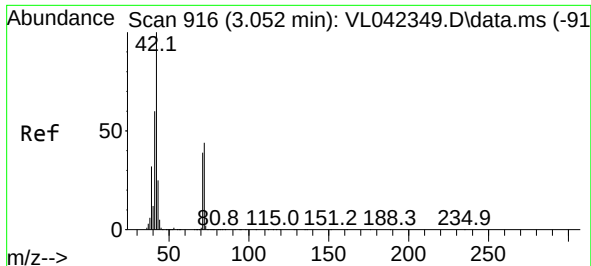
88 100

58 70.2 61.4 92.0

43 36.0 23.2 34.8#

57 0.0 0.0 0.0

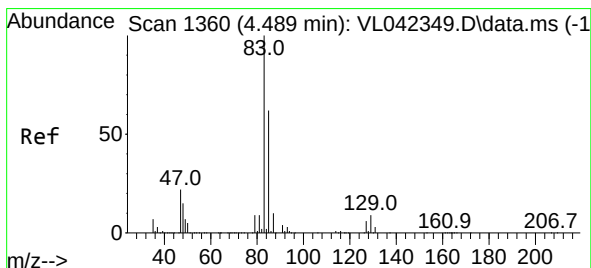
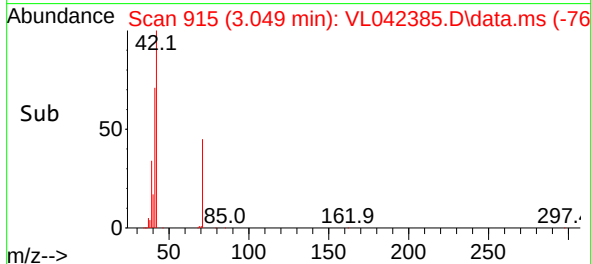
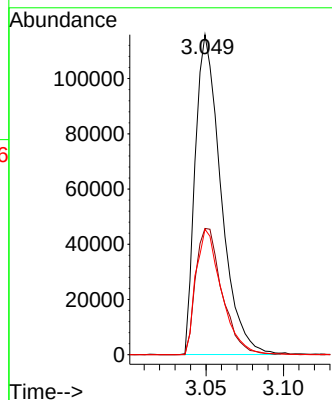
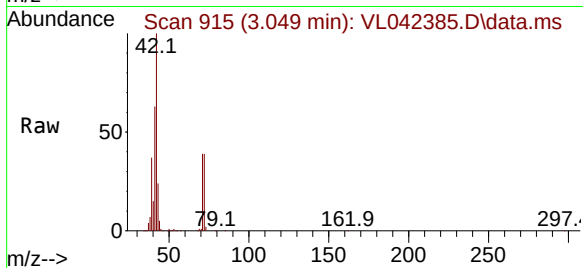




#41
Tetrahydrofuran
Concen: 6.885 ppbv
RT: 3.049 min Scan# 916
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

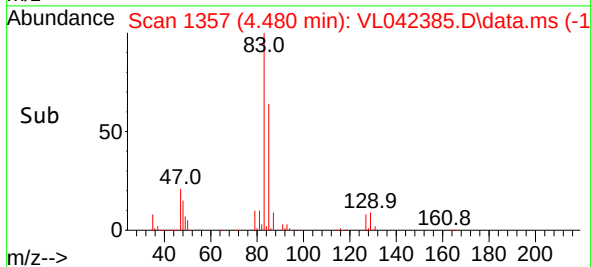
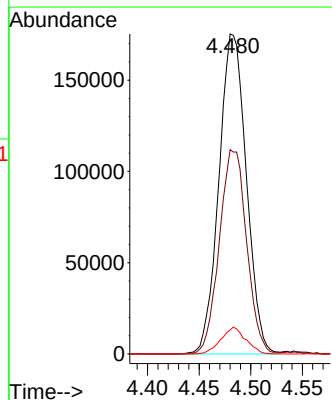
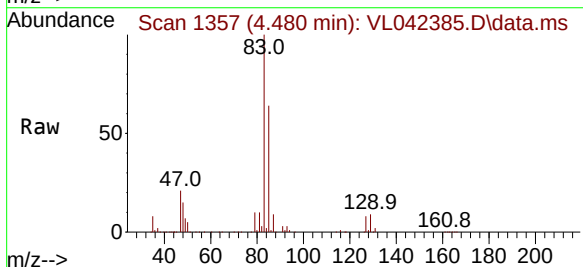
Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

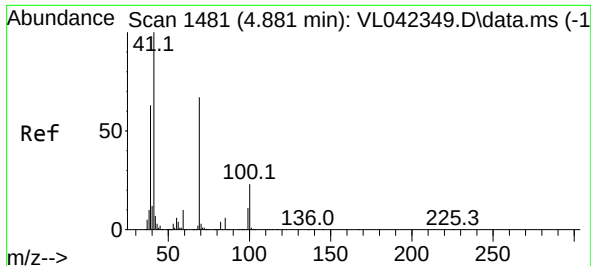
Tgt Ion: 42 Resp: 133932
Ion Ratio Lower Upper
42 100
72 40.5 32.3 48.5
71 39.3 31.4 47.2



#42
Bromodichloromethane
Concen: 8.535 ppbv
RT: 4.480 min Scan# 1357
Delta R.T. -0.010 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 83 Resp: 324378
Ion Ratio Lower Upper
83 100
85 63.9 49.7 74.5
127 7.5 5.1 7.7

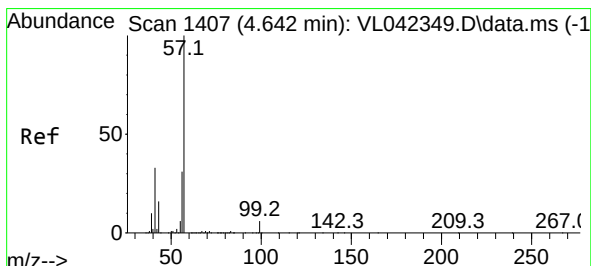
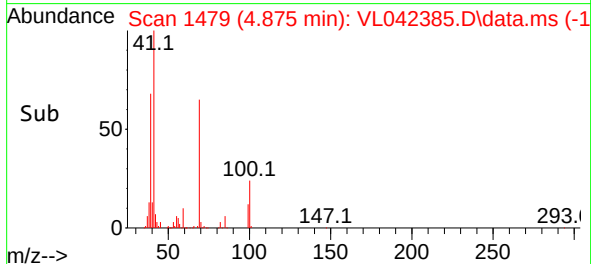
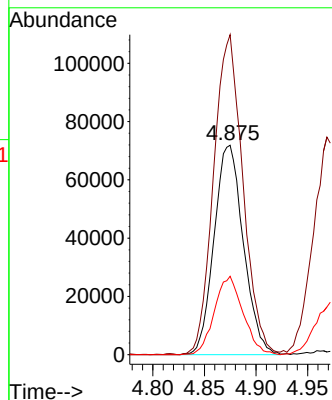
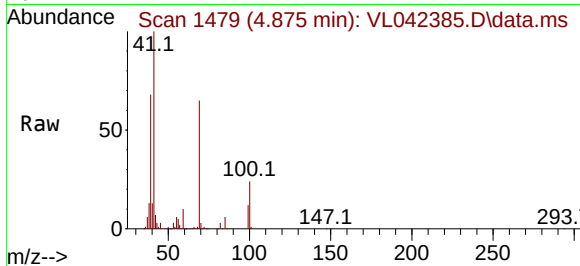




#43
Methyl Methacrylate
Concen: 6.925 ppbv
RT: 4.875 min Scan# 1479
Delta R.T. -0.006 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

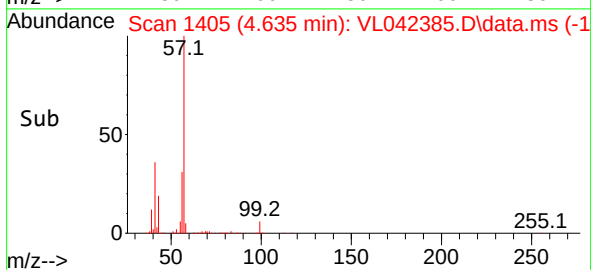
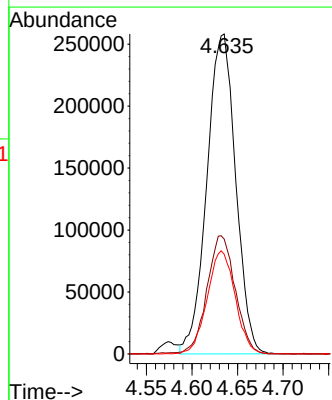
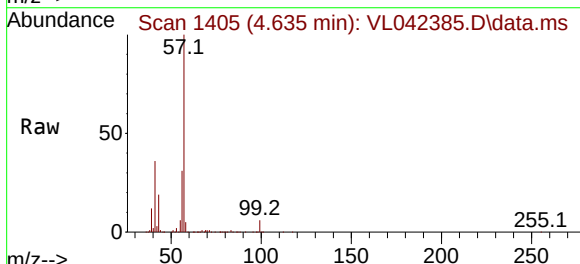
Instrument :
MSVOA_1
ClientSampleId :
VL0418ABS01

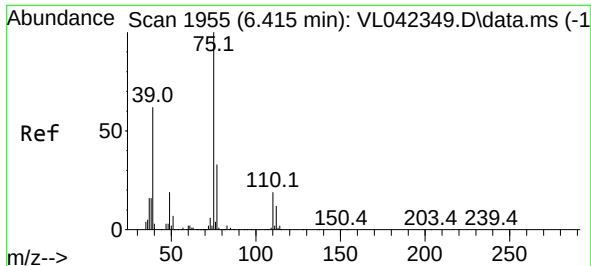
Tgt Ion: 69 Resp: 142005
Ion Ratio Lower Upper
69 100
41 152.1 118.6 177.8
100 36.5 28.2 42.2



#44
2,2,4-Trimethylpentane
Concen: 7.223 ppbv
RT: 4.635 min Scan# 1405
Delta R.T. -0.006 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 57 Resp: 567587
Ion Ratio Lower Upper
57 100
41 36.5 27.2 40.8
56 31.4 25.7 38.5

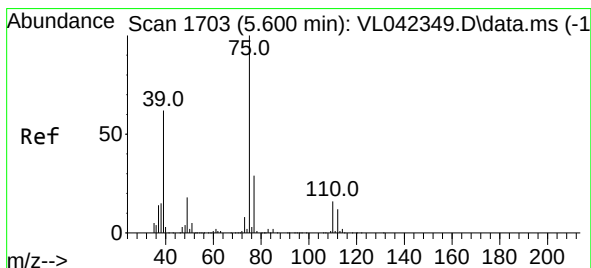
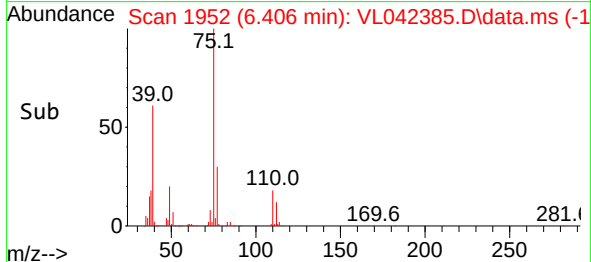
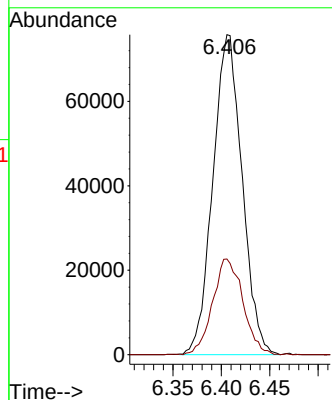
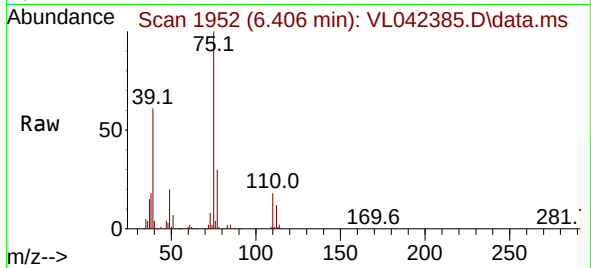




#45
 t-1,3-Dichloropropene
 Concen: 7.601 ppbv
 RT: 6.406 min Scan# 1955
 Delta R.T. -0.010 min
 Lab File: VL042385.D
 Acq: 18 Apr 2025 11:38

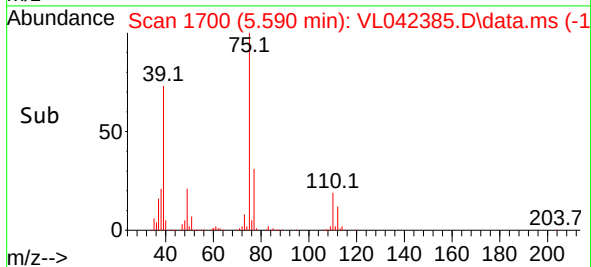
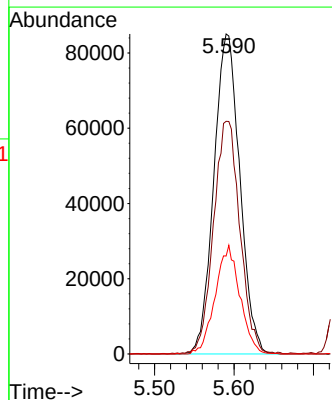
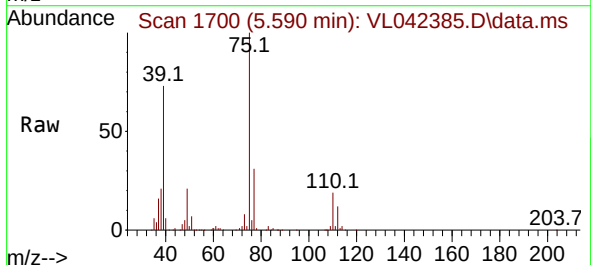
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0418ABS01

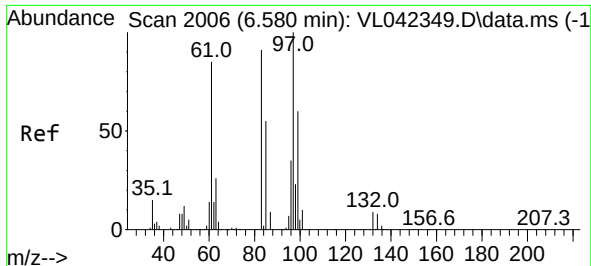
Tgt Ion: 75 Resp: 159210
 Ion Ratio Lower Upper
 75 100
 77 29.9 27.0 40.6



#46
 cis-1,3-Dichloropropene
 Concen: 7.523 ppbv
 RT: 5.590 min Scan# 1700
 Delta R.T. -0.010 min
 Lab File: VL042385.D
 Acq: 18 Apr 2025 11:38

Tgt Ion: 75 Resp: 192875
 Ion Ratio Lower Upper
 75 100
 39 72.6 50.0 75.0
 77 30.6 23.0 34.6

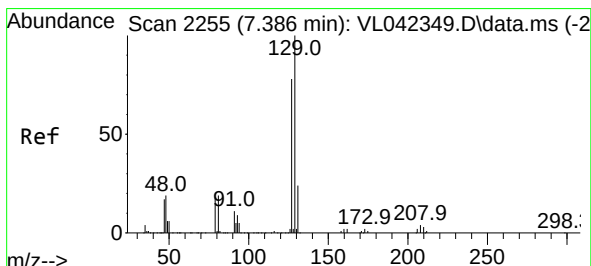
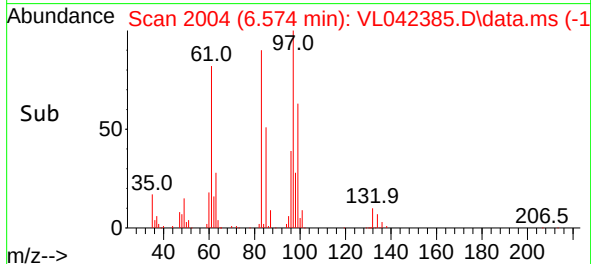
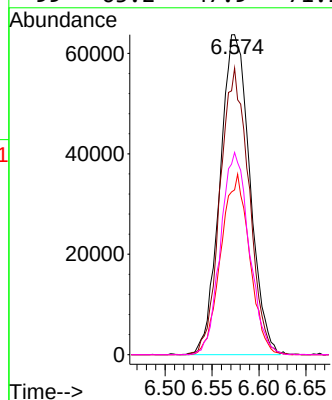
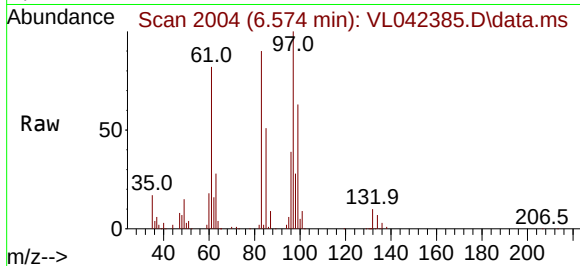




#47
1,1,2-Trichloroethane
Concen: 8.163 ppbv
RT: 6.574 min Scan# 2004
Delta R.T. -0.006 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

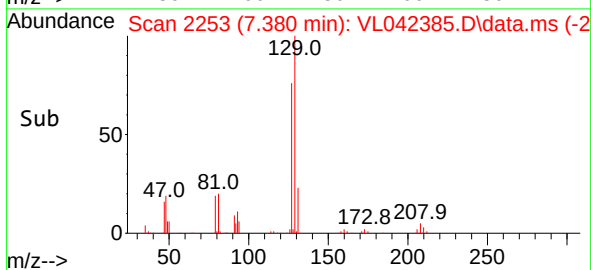
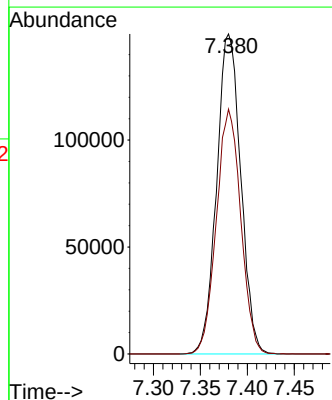
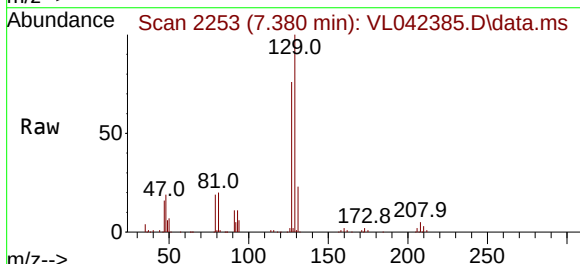
Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

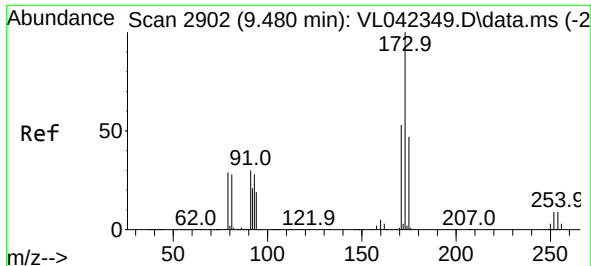
Tgt Ion:	97	Resp:	141009
Ion	Ratio	Lower	Upper
97	100		
83	89.5	72.8	109.2
85	51.5	44.2	66.4
99	63.2	47.9	71.9



#48
Dibromochloromethane
Concen: 8.756 ppbv
RT: 7.380 min Scan# 2253
Delta R.T. -0.006 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion:	129	Resp:	267219
Ion	Ratio	Lower	Upper
129	100		
127	77.3	39.1	117.3

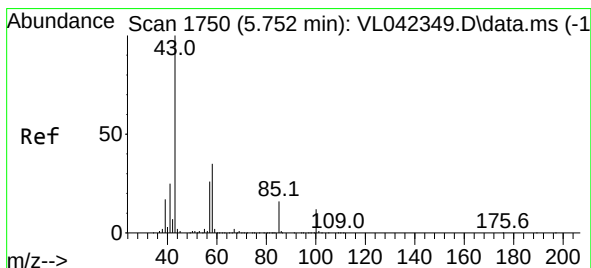
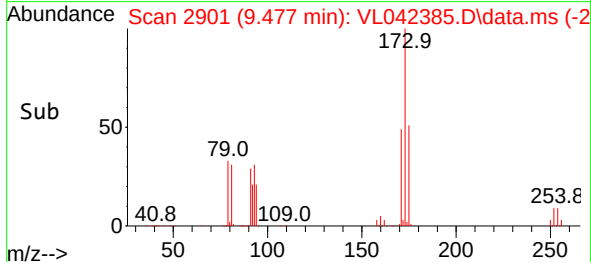
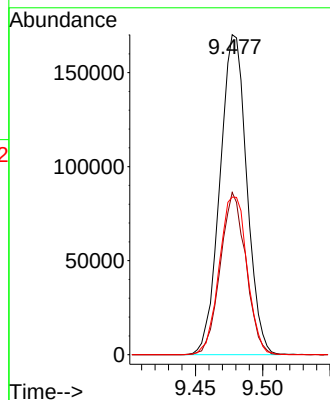
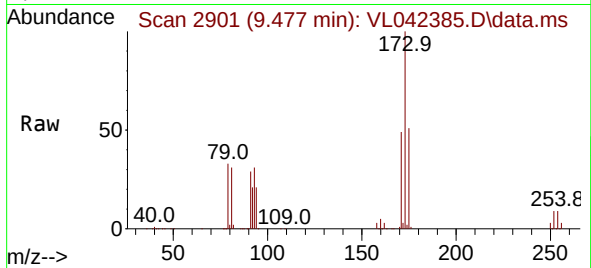




#49
Bromoform
Concen: 8.823 ppbv
RT: 9.477 min Scan# 2902
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

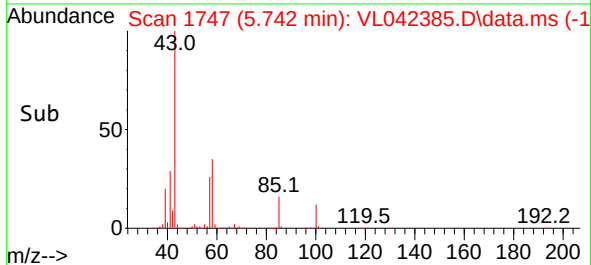
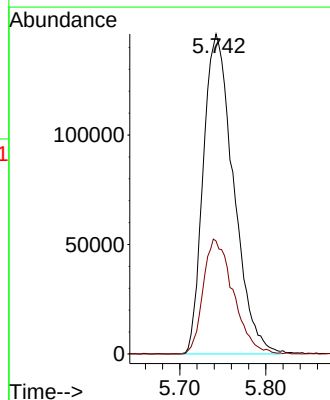
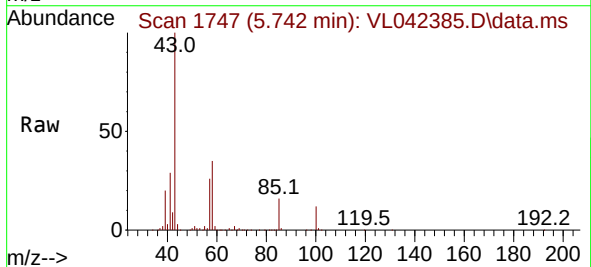
Instrument : MSVOA_L
ClientSampleId : VL0418ABS01

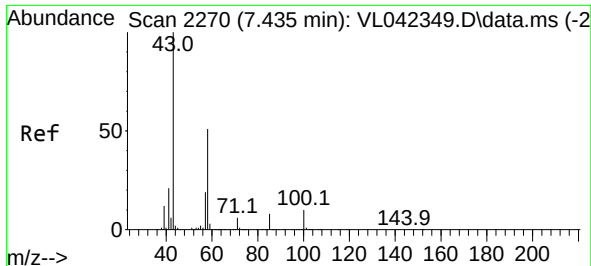
Tgt Ion:173 Resp: 235451
Ion Ratio Lower Upper
173 100
175 48.4 38.2 57.2
171 51.3 40.9 61.3



#50
4-Methyl-2-Pentanone
Concen: 6.440 ppbv
RT: 5.742 min Scan# 1747
Delta R.T. -0.010 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 43 Resp: 357049
Ion Ratio Lower Upper
43 100
58 35.8 28.6 43.0

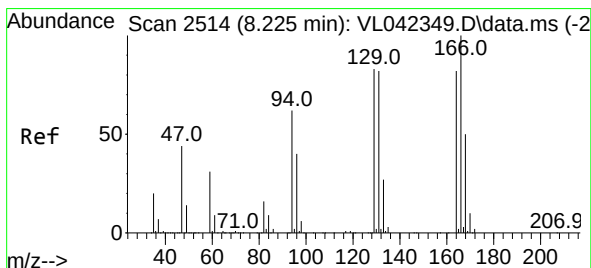
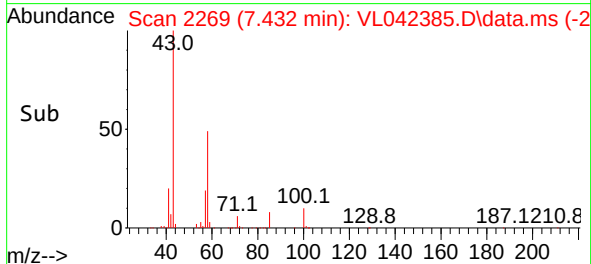
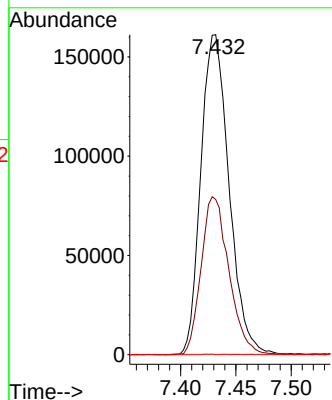
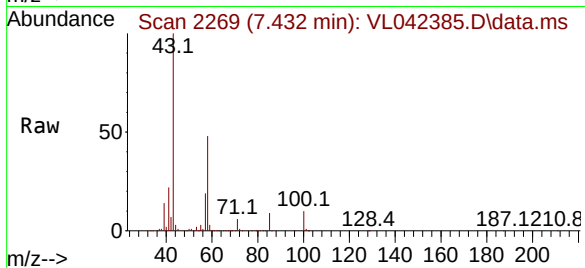




#51
2-Hexanone
Concen: 5.729 ppbv
RT: 7.432 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

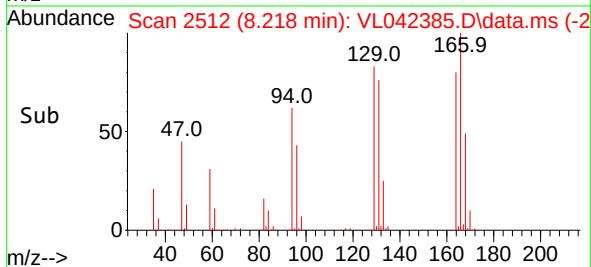
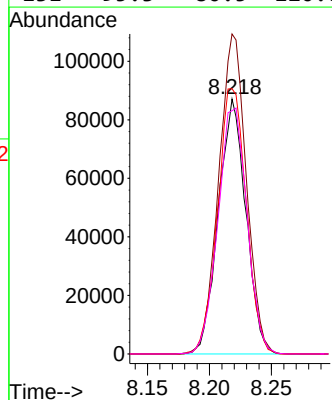
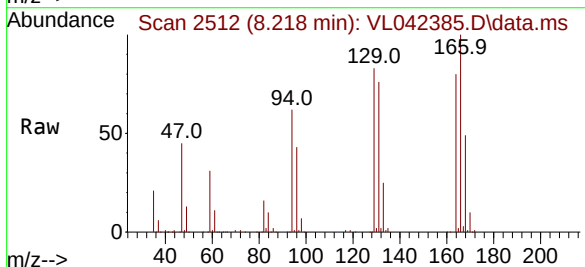
Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

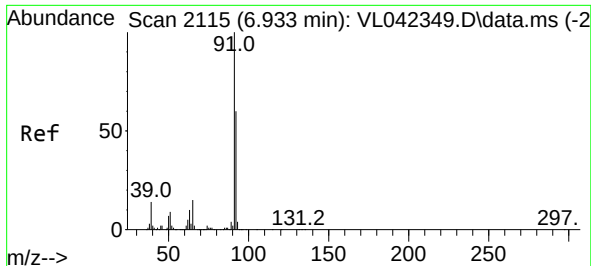
Tgt Ion: 43 Resp: 284839
Ion Ratio Lower Upper
43 100
58 48.9 40.2 60.4
98 0.1 0.1 0.1



#52
Tetrachloroethene
Concen: 7.663 ppbv
RT: 8.218 min Scan# 2512
Delta R.T. -0.006 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 164 Resp: 134768
Ion Ratio Lower Upper
164 100
166 125.6 98.2 147.2
129 104.1 81.8 122.8
131 95.3 80.5 120.7

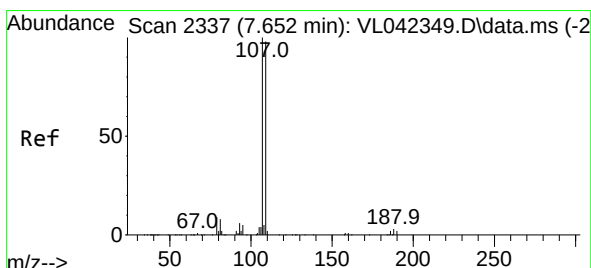
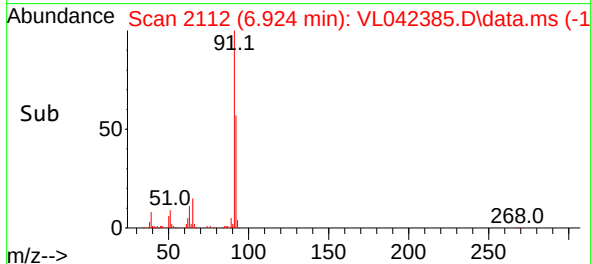
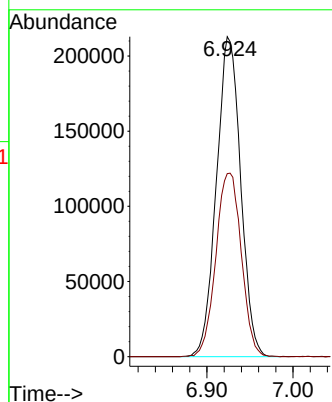
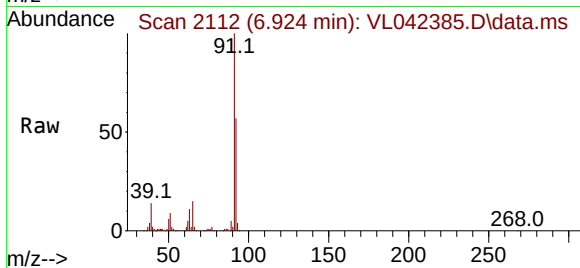




#53
Toluene
Concen: 7.627 ppbv
RT: 6.924 min Scan# 2115
Delta R.T. -0.010 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

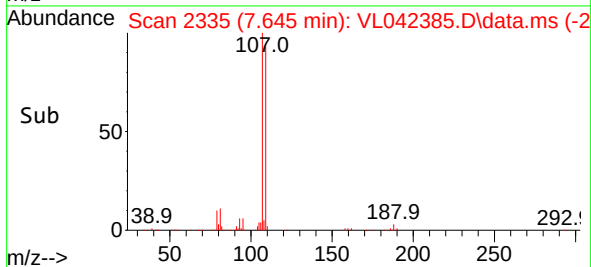
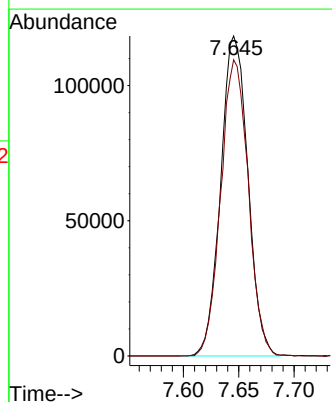
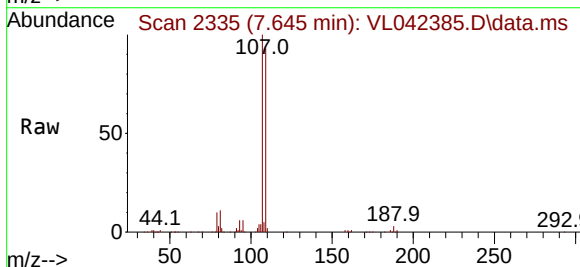
Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

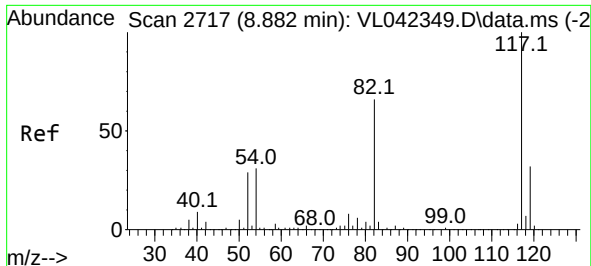
Tgt Ion: 91 Resp: 416429
Ion Ratio Lower Upper
91 100
92 60.2 48.2 72.4



#54
1,2-Dibromoethane
Concen: 8.204 ppbv
RT: 7.645 min Scan# 2335
Delta R.T. -0.006 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 107 Resp: 202809
Ion Ratio Lower Upper
107 100
109 92.5 78.2 117.4

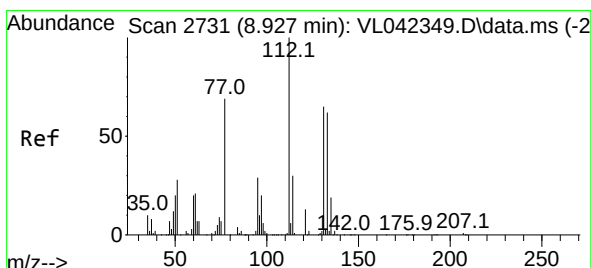
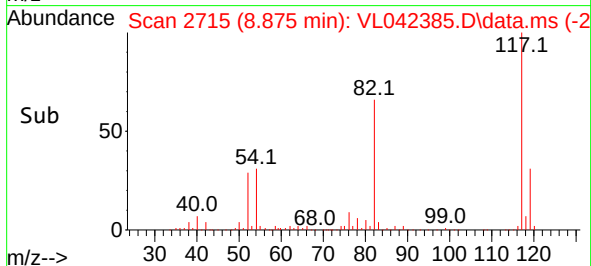
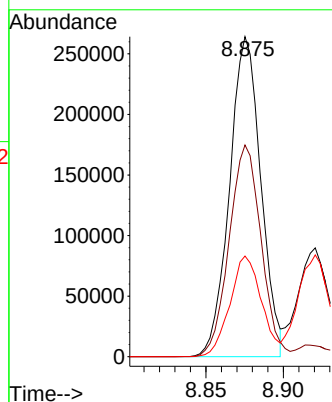
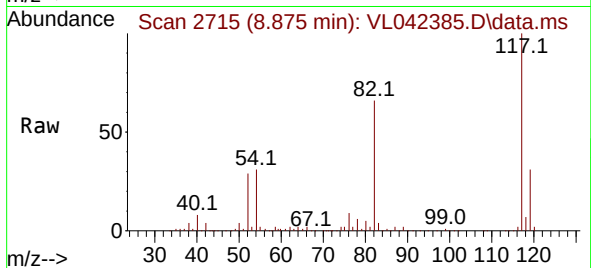




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 21
Delta R.T. -0.006 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

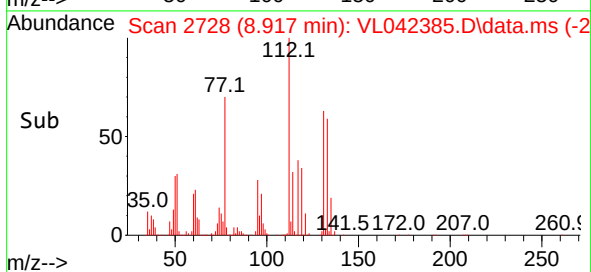
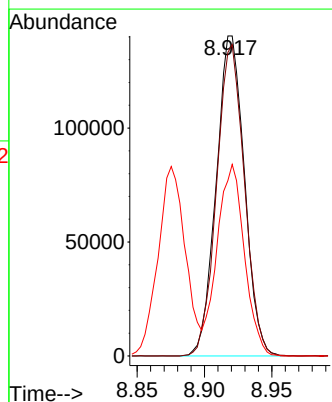
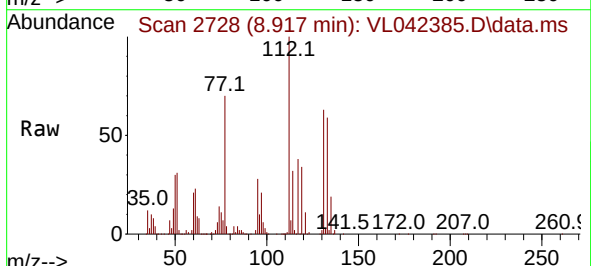
Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

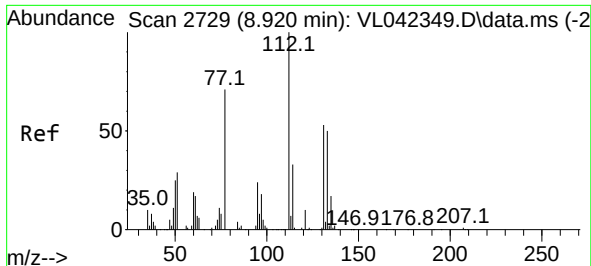
Tgt Ion:117 Resp: 371546
Ion Ratio Lower Upper
117 100
82 71.0 57.8 86.6
119 32.7 25.2 37.8



#56
1,1,1,2-Tetrachloroethane
Concen: 9.093 ppbv
RT: 8.917 min Scan# 2728
Delta R.T. -0.010 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion:131 Resp: 204475
Ion Ratio Lower Upper
131 100
133 96.1 78.3 117.5
119 57.8 48.7 73.1

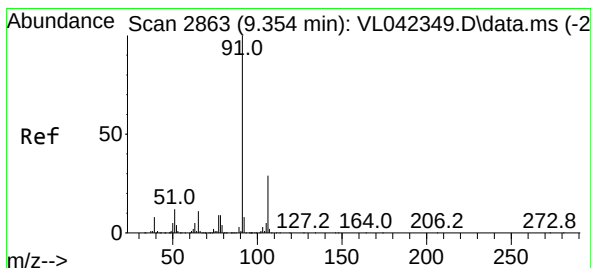
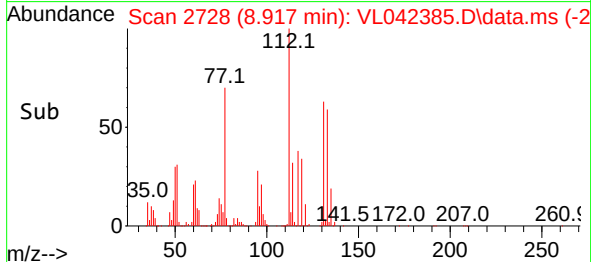
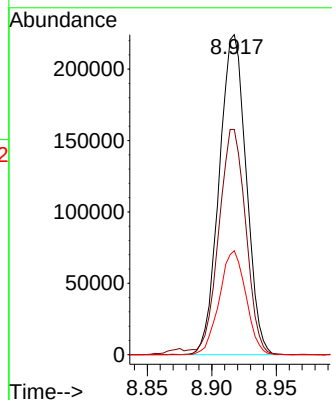
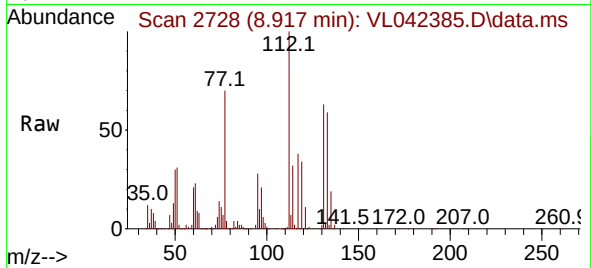




#57
Chlorobenzene
Concen: 8.438 ppbv
RT: 8.917 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

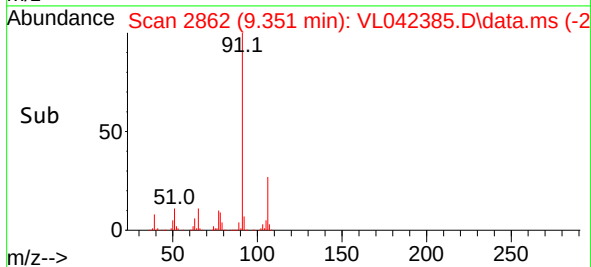
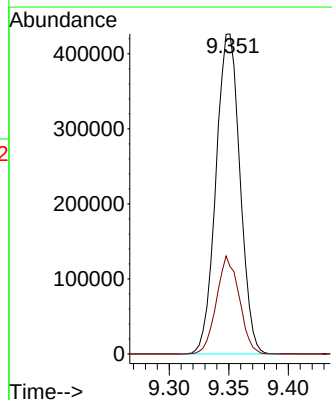
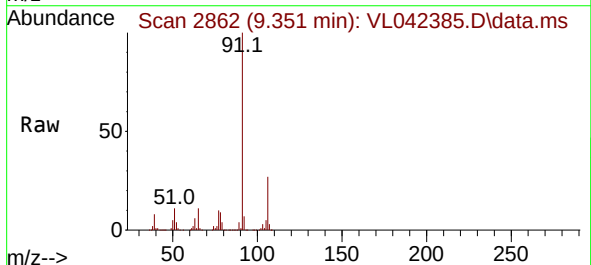
Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

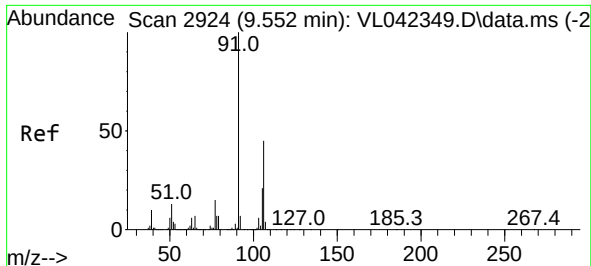
Tgt Ion:112 Resp: 326071
Ion Ratio Lower Upper
112 100
77 70.2 57.8 86.6
114 32.5 29.3 35.9



#58
Ethyl Benzene
Concen: 8.117 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 91 Resp: 597552
Ion Ratio Lower Upper
91 100
106 27.3 23.0 34.4





#59

m/p-Xylene

Concen: 8.060 ppbv

RT: 9.545 min Scan# 29

Delta R.T. -0.006 min

Lab File: VL042385.D

Acq: 18 Apr 2025 11:38

Instrument :

MSVOA_1

ClientSampleId :

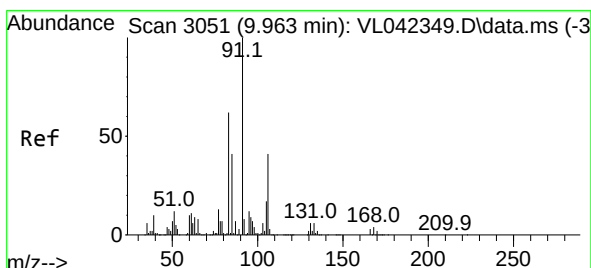
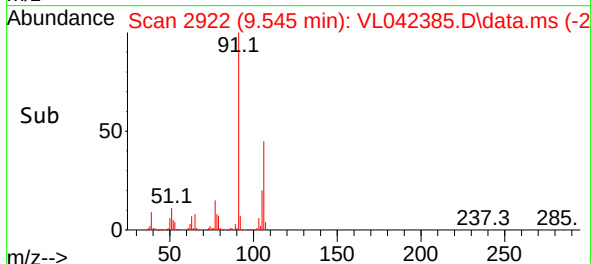
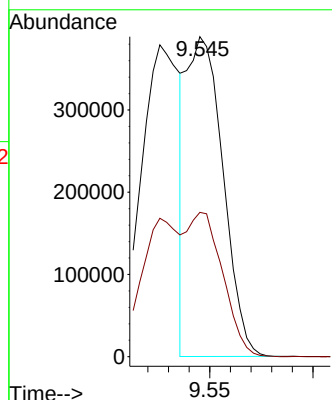
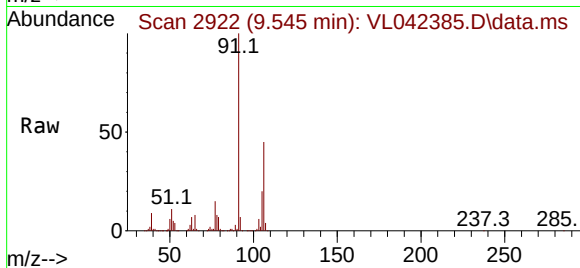
VL0418ABS01

Tgt Ion: 91 Resp: 477953

Ion Ratio Lower Upper

91 100

106 90.1 35.4 53.2#



#60

o-Xylene

Concen: 8.203 ppbv

RT: 9.960 min Scan# 3050

Delta R.T. -0.003 min

Lab File: VL042385.D

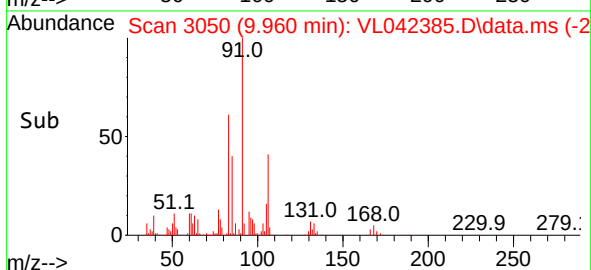
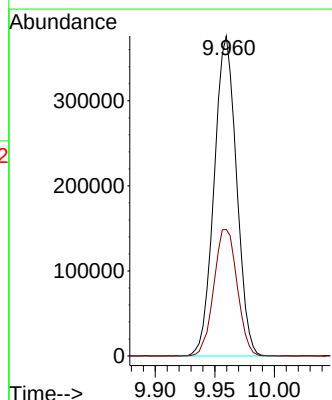
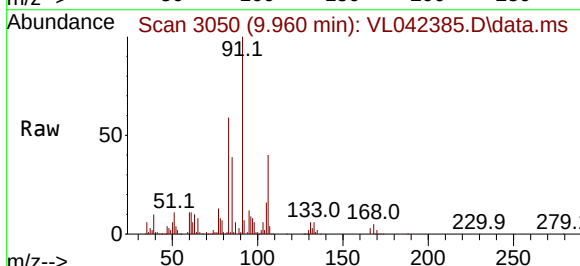
Acq: 18 Apr 2025 11:38

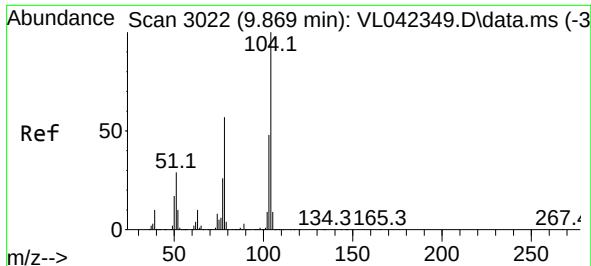
Tgt Ion: 91 Resp: 489890

Ion Ratio Lower Upper

91 100

106 41.3 21.1 63.4





#61

Styrene

Concen: 8.173 ppbv

RT: 9.866 min Scan# 3022

Delta R.T. -0.003 min

Lab File: VL042385.D

Acq: 18 Apr 2025 11:38

Instrument :

MSVOA_L

ClientSampleId :

VL0418ABS01

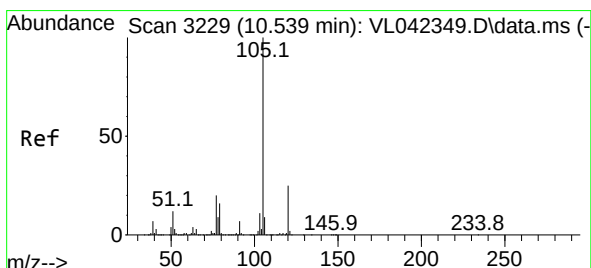
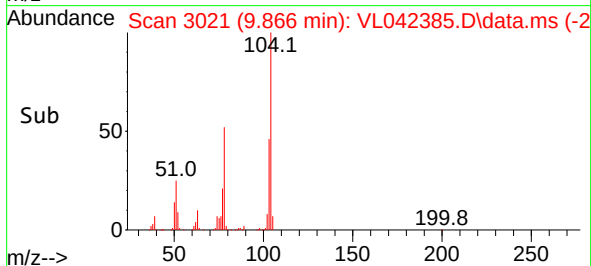
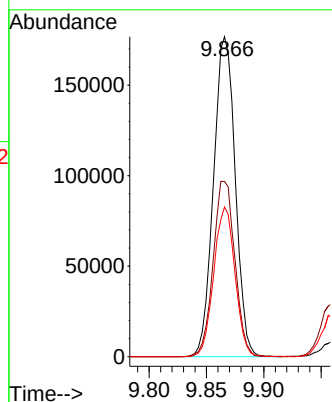
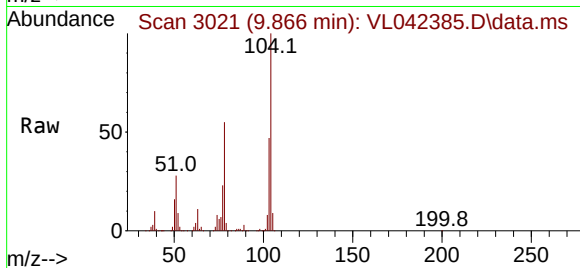
Tgt Ion:104 Resp: 232960

Ion Ratio Lower Upper

104 100

78 54.7 44.6 66.8

103 45.8 37.4 56.0



#62

Isopropylbenzene

Concen: 8.376 ppbv

RT: 10.536 min Scan# 3228

Delta R.T. -0.003 min

Lab File: VL042385.D

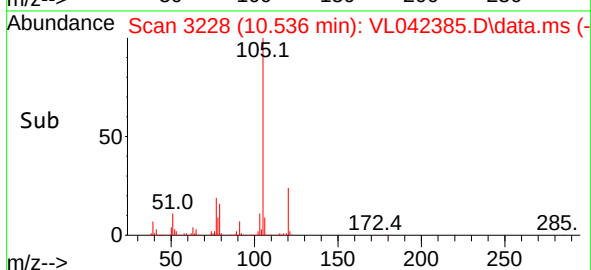
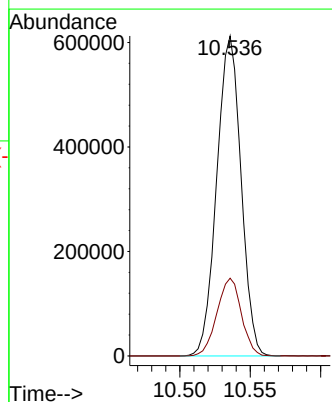
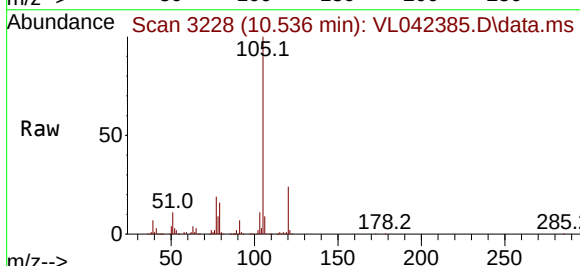
Acq: 18 Apr 2025 11:38

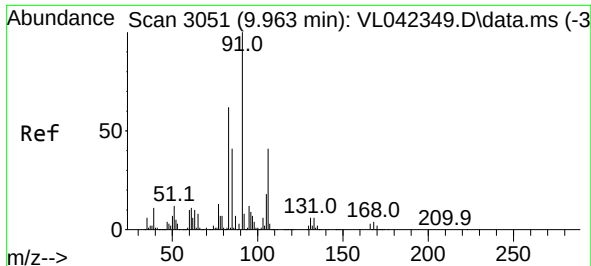
Tgt Ion:105 Resp: 734342

Ion Ratio Lower Upper

105 100

120 24.4 19.8 29.8

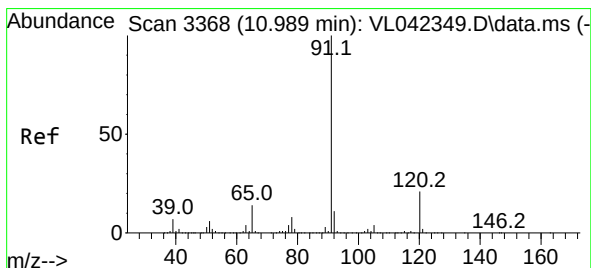
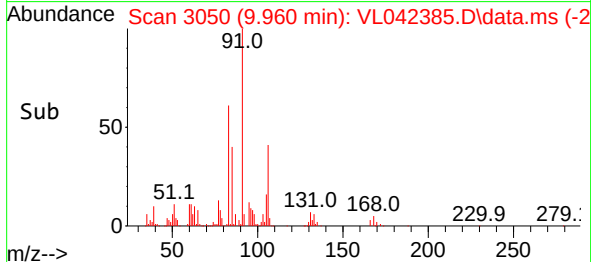
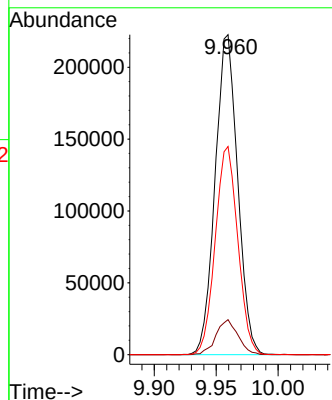
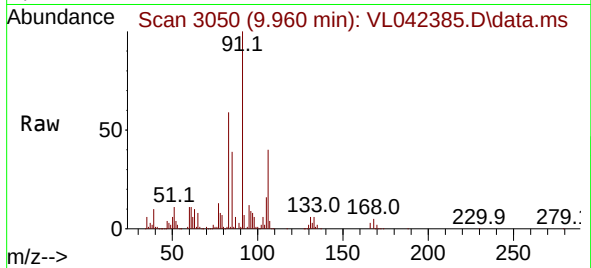




#63
1,1,2,2-Tetrachloroethane
Concen: 7.298 ppbv
RT: 9.960 min Scan# 3051
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

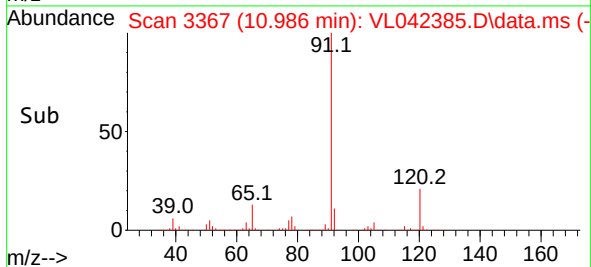
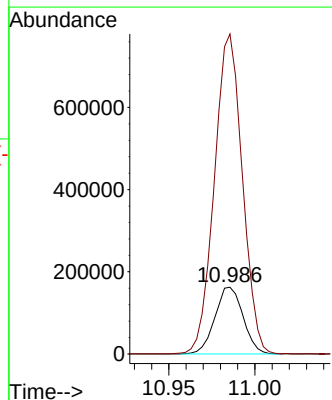
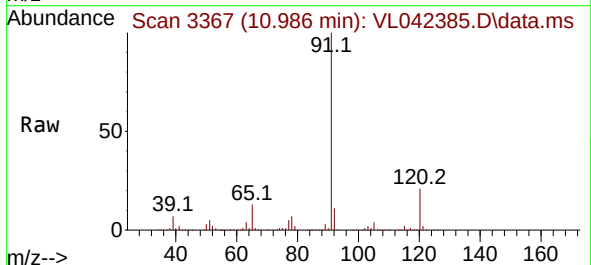
Instrument :
MSVOA_1
ClientSampleId :
VL0418ABS01

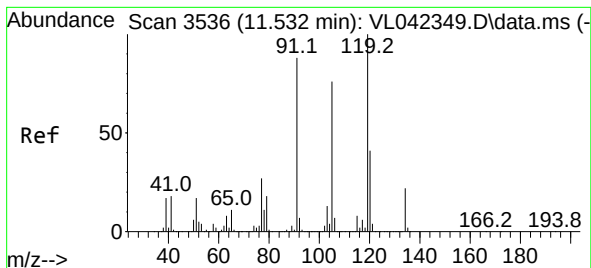
Tgt Ion: 83 Resp: 282429
Ion Ratio Lower Upper
83 100
131 10.7 4.5 13.7
85 65.1 32.4 97.0



#64
n-propylbenzene
Concen: 8.383 ppbv
RT: 10.986 min Scan# 3367
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 120 Resp: 184746
Ion Ratio Lower Upper
120 100
91 478.4 392.4 588.6

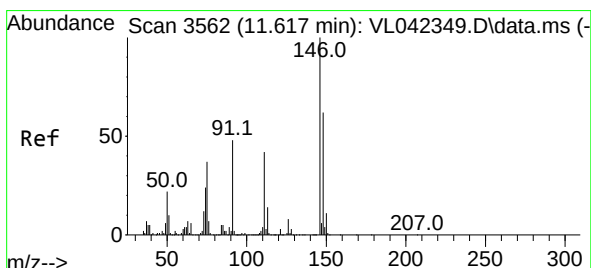
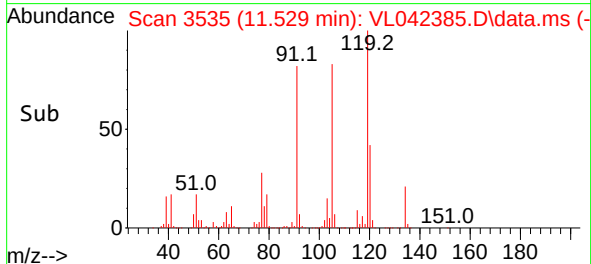
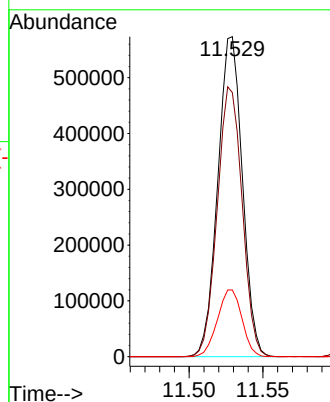
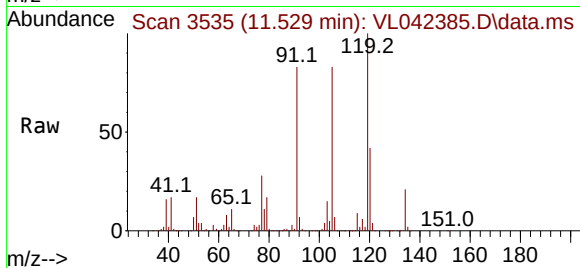




#65
tert-Butylbenzene
Concen: 8.256 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

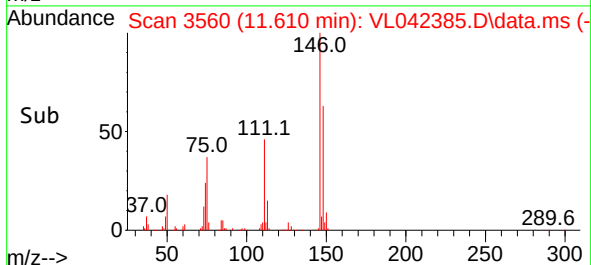
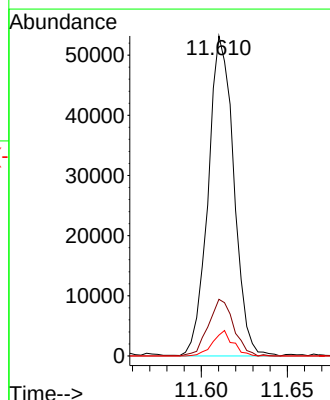
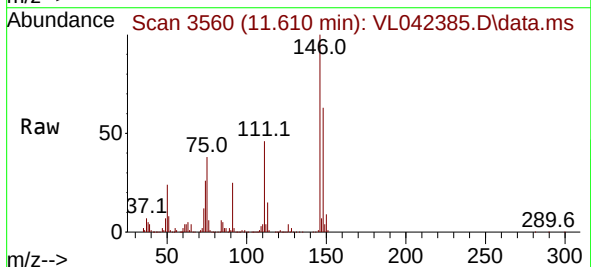
Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

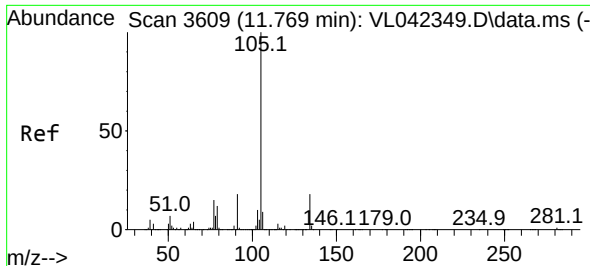
Tgt Ion:119 Resp: 665320
Ion Ratio Lower Upper
119 100
91 85.3 74.6 111.8
134 20.9 18.8 28.2



#66
Benzyl Chloride
Concen: 6.223 ppbv
RT: 11.610 min Scan# 3560
Delta R.T. -0.006 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 91 Resp: 55103
Ion Ratio Lower Upper
91 100
126 17.5 11.8 17.6
128 6.3 4.5 6.7

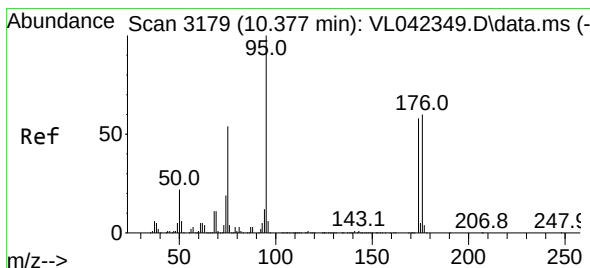
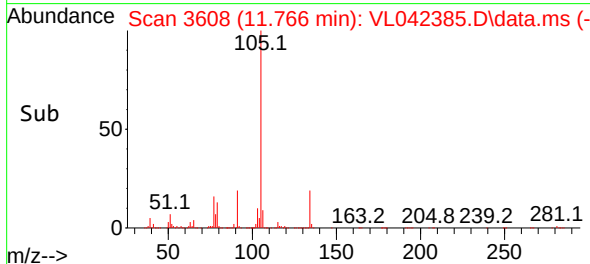
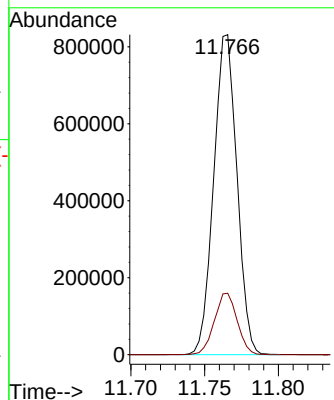
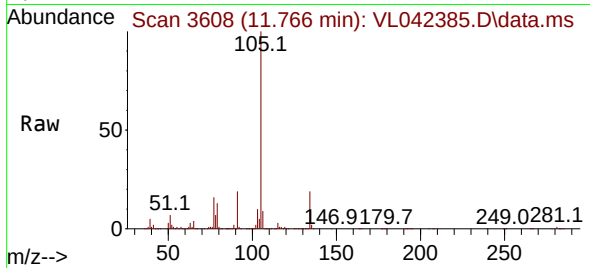




#67
 sec-Butylbenzene
 Concen: 8.129 ppbv
 RT: 11.766 min Scan# 3177
 Delta R.T. -0.003 min
 Lab File: VL042385.D
 Acq: 18 Apr 2025 11:38

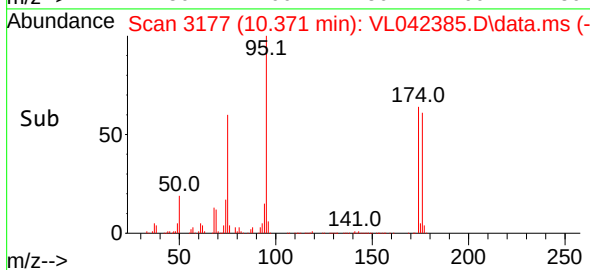
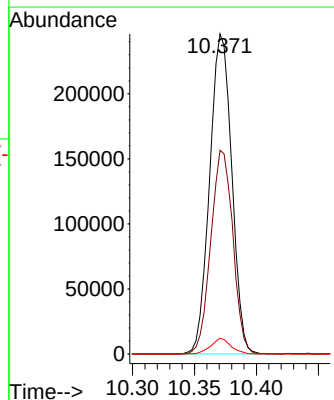
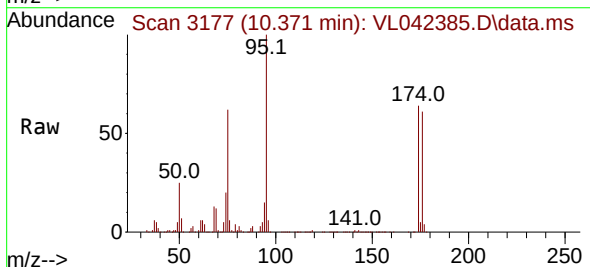
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0418ABS01

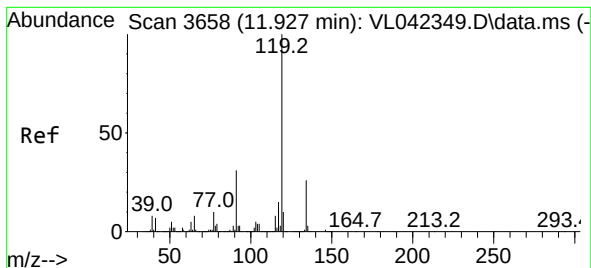
Tgt Ion:105 Resp: 911164
 Ion Ratio Lower Upper
 105 100
 134 18.9 14.6 21.8



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.024 ppbv
 RT: 10.371 min Scan# 3177
 Delta R.T. -0.006 min
 Lab File: VL042385.D
 Acq: 18 Apr 2025 11:38

Tgt Ion: 95 Resp: 306062
 Ion Ratio Lower Upper
 95 100
 174 63.5 48.5 72.7
 175 4.4 3.7 5.5





#69

p-Isopropyltoluene

Concen: 8.209 ppbv

RT: 11.921 min Scan# 3656

Delta R.T. -0.006 min

Lab File: VL042385.D

Acq: 18 Apr 2025 11:38

Instrument :

MSVOA_1

ClientSampleId :

VL0418ABS01

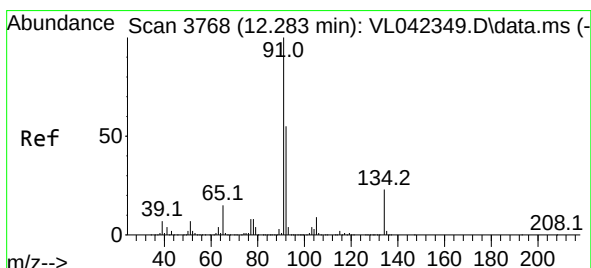
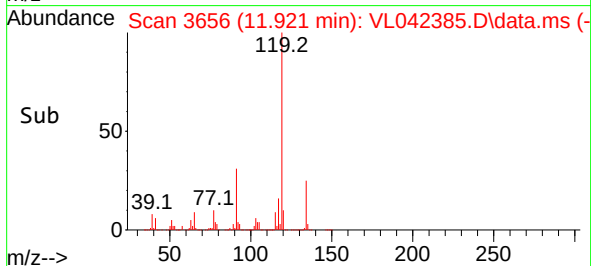
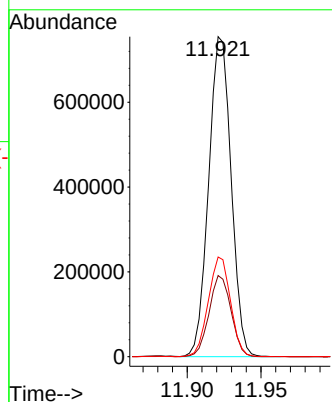
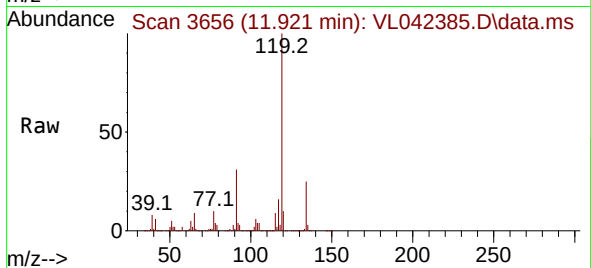
Tgt Ion:119 Resp: 799331

Ion Ratio Lower Upper

119 100

134 24.9 20.0 30.0

91 30.9 24.4 36.6



#70

n-Butylbenzene

Concen: 8.061 ppbv

RT: 12.277 min Scan# 3766

Delta R.T. -0.006 min

Lab File: VL042385.D

Acq: 18 Apr 2025 11:38

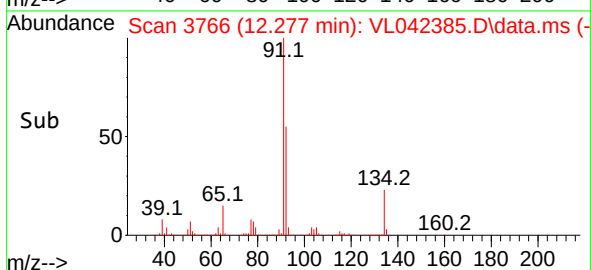
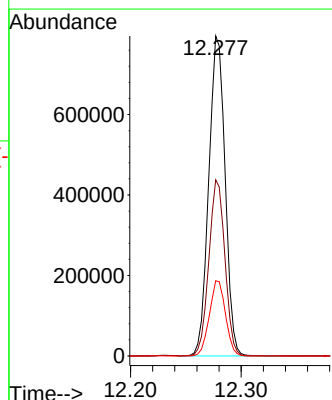
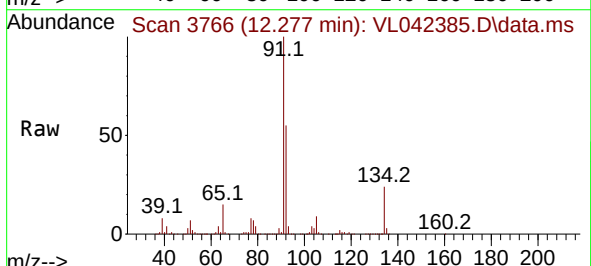
Tgt Ion: 91 Resp: 817538

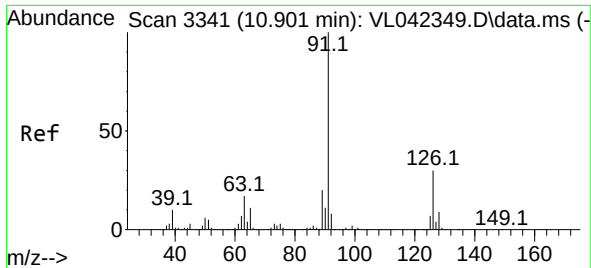
Ion Ratio Lower Upper

91 100

92 54.4 44.2 66.4

134 23.2 18.2 27.4

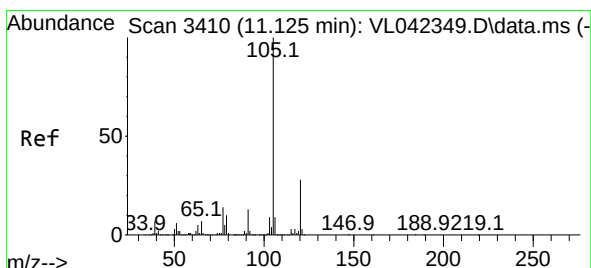
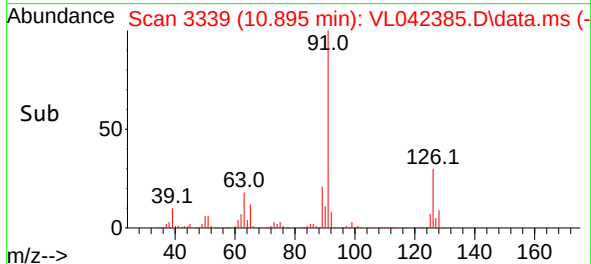
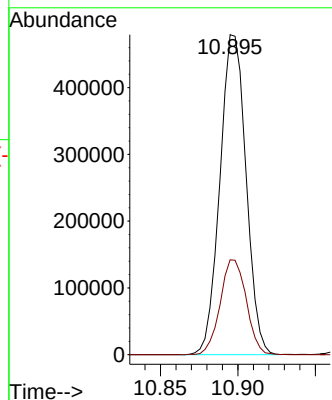
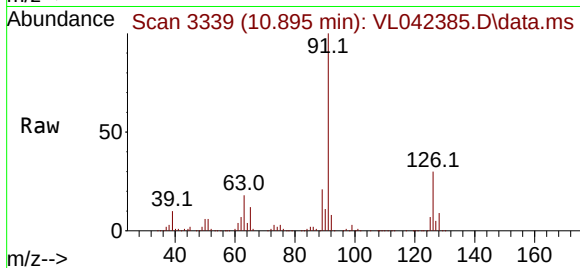




#71
2-Chlorotoluene
Concen: 8.180 ppbv
RT: 10.895 min Scan# 31
Delta R.T. -0.006 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

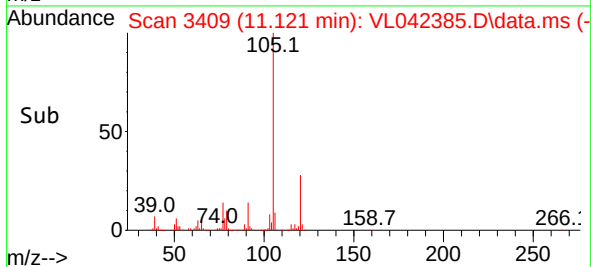
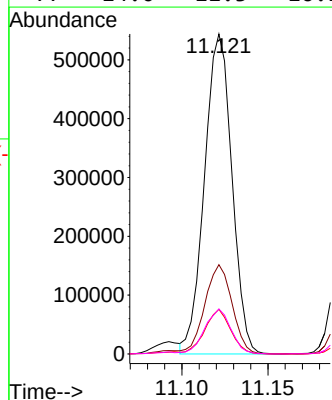
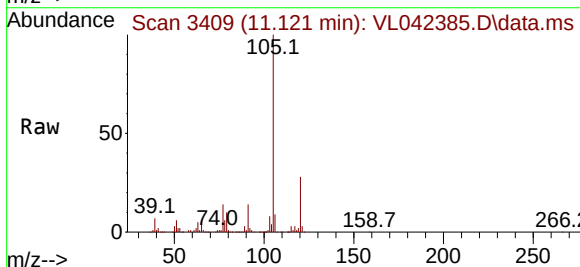
Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

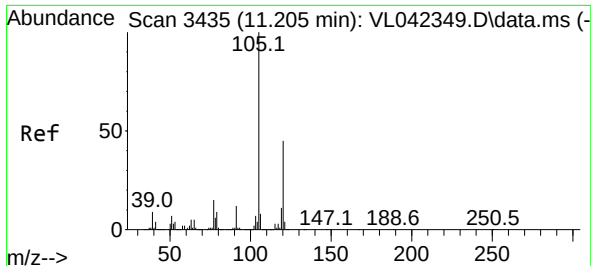
Tgt Ion: 91 Resp: 562487
Ion Ratio Lower Upper
91 100
126 29.6 11.4 45.4



#72
4-Ethyltoluene
Concen: 8.256 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion: 105 Resp: 602711
Ion Ratio Lower Upper
105 100
120 28.7 23.2 34.8
91 13.8 10.4 15.6
77 14.0 11.3 16.9

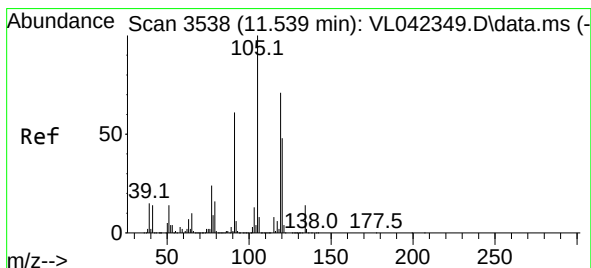
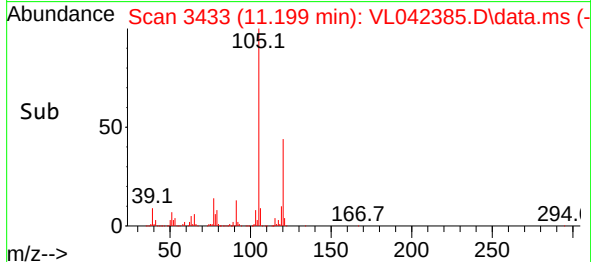
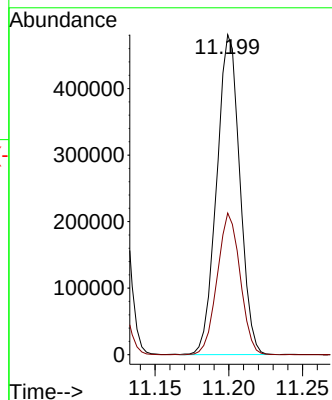
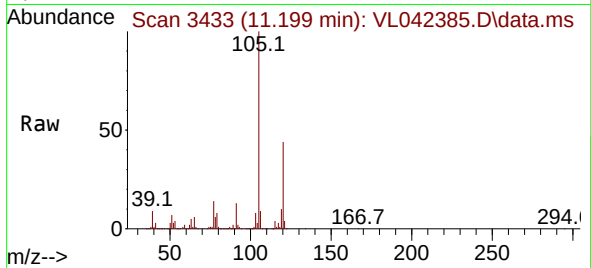




#73
 1,3,5-Trimethylbenzene
 Concen: 8.135 ppbv
 RT: 11.199 min Scan# 3435
 Delta R.T. -0.006 min
 Lab File: VL042385.D
 Acq: 18 Apr 2025 11:38

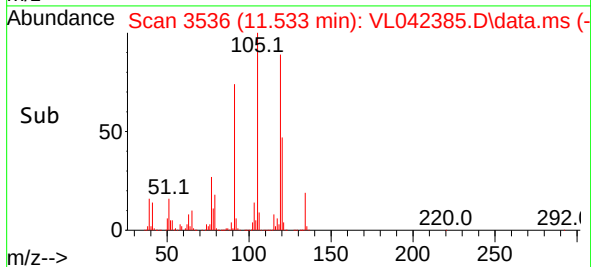
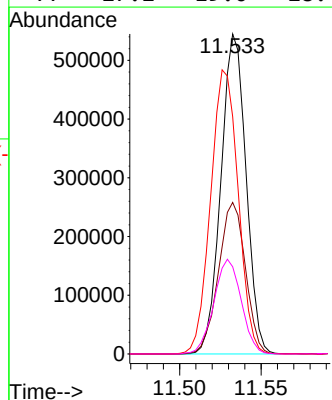
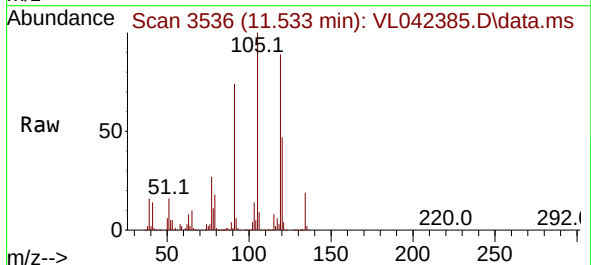
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0418ABS01

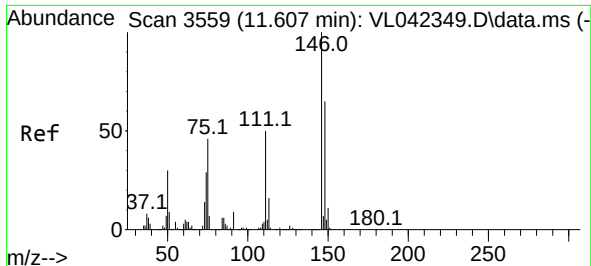
Tgt Ion:105 Resp: 524369
 Ion Ratio Lower Upper
 105 100
 120 44.3 35.6 53.4



#74
 1,2,4-Trimethylbenzene
 Concen: 7.749 ppbv
 RT: 11.533 min Scan# 3536
 Delta R.T. -0.006 min
 Lab File: VL042385.D
 Acq: 18 Apr 2025 11:38

Tgt Ion:105 Resp: 583351
 Ion Ratio Lower Upper
 105 100
 120 47.3 38.1 57.1
 91 74.1 48.8 73.2#
 77 27.2 19.0 28.4

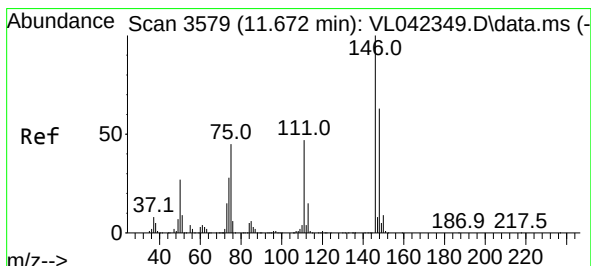
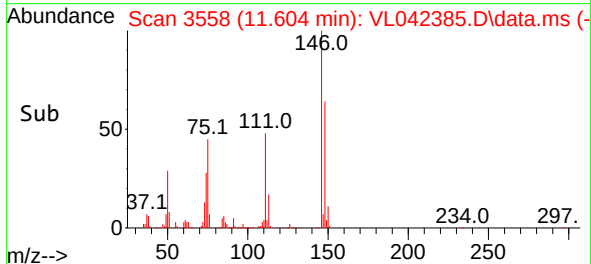
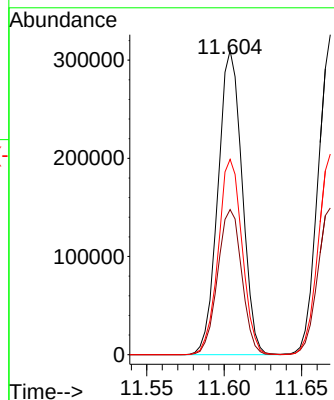
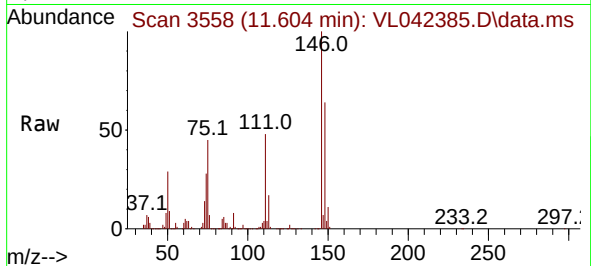




#75
1,3-Dichlorobenzene
Concen: 8.575 ppbv
RT: 11.604 min Scan# 3558
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

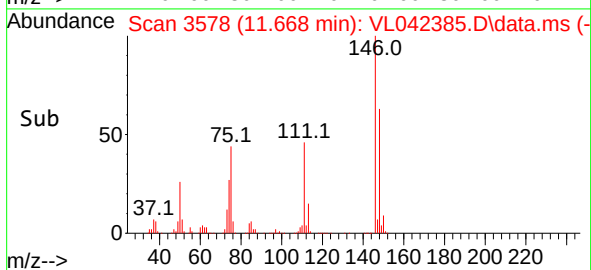
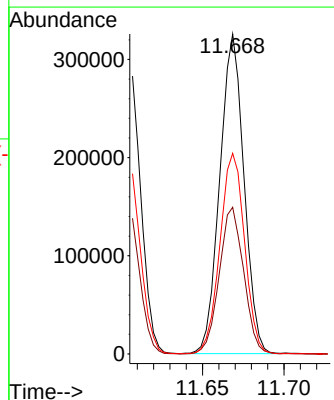
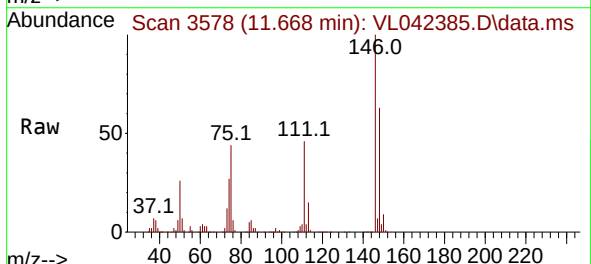
Instrument :
MSVOA_1
ClientSampleId :
VL0418ABS01

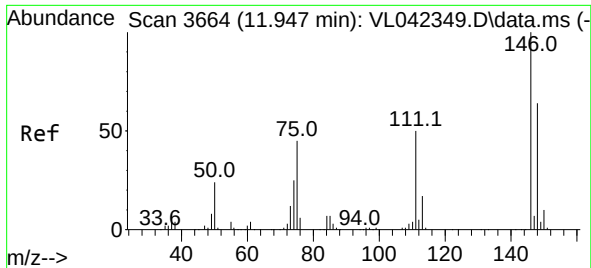
Tgt Ion:146 Resp: 335533
Ion Ratio Lower Upper
146 100
111 47.8 24.3 72.8
148 63.5 31.6 94.8



#76
1,4-Dichlorobenzene
Concen: 8.520 ppbv
RT: 11.668 min Scan# 3578
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion:146 Resp: 335101
Ion Ratio Lower Upper
146 100
111 46.5 24.2 72.6
148 64.2 32.1 96.5

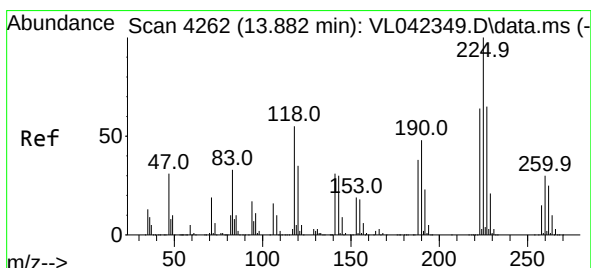
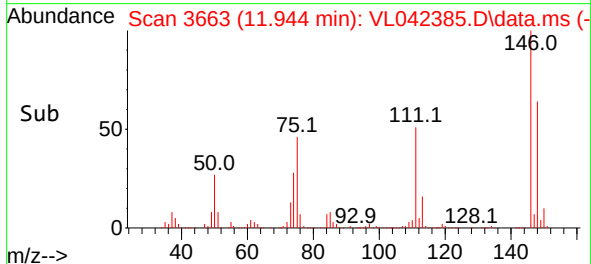
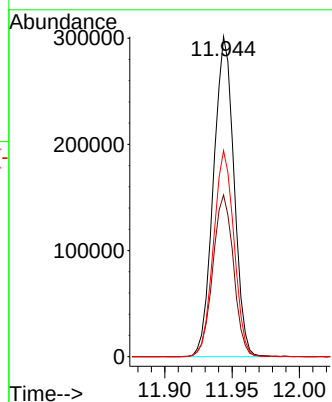
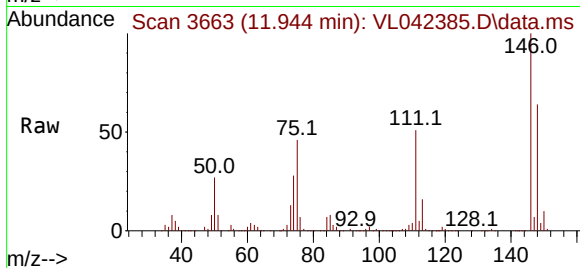




#77
 1,2-Dichlorobenzene
 Concen: 8.396 ppbv
 RT: 11.944 min Scan# 30
 Delta R.T. -0.003 min
 Lab File: VL042385.D
 Acq: 18 Apr 2025 11:38

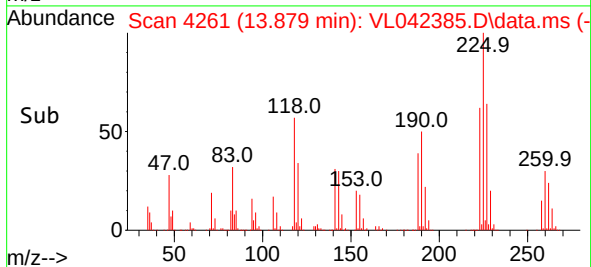
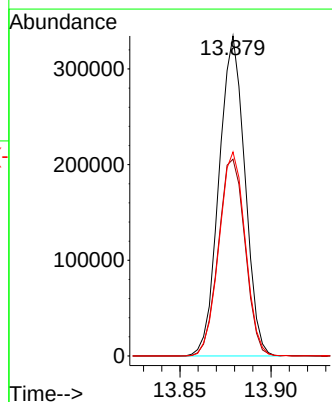
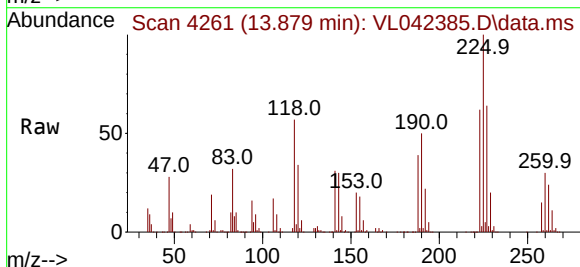
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0418ABS01

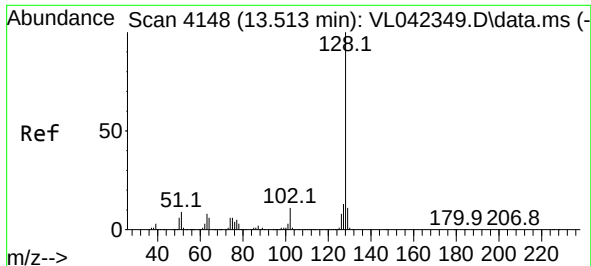
Tgt Ion:146 Resp: 319466
 Ion Ratio Lower Upper
 146 100
 111 51.0 25.3 75.9
 148 64.3 31.5 94.5



#78
 Hexachloro-1,3-Butadiene
 Concen: 8.584 ppbv
 RT: 13.879 min Scan# 4261
 Delta R.T. -0.003 min
 Lab File: VL042385.D
 Acq: 18 Apr 2025 11:38

Tgt Ion:225 Resp: 329813
 Ion Ratio Lower Upper
 225 100
 223 63.6 50.3 75.5
 227 64.6 51.5 77.3

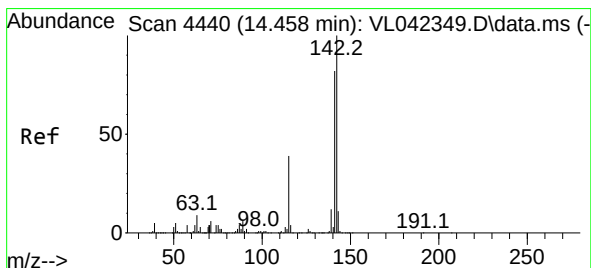
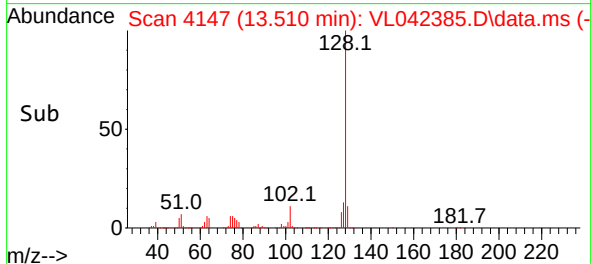
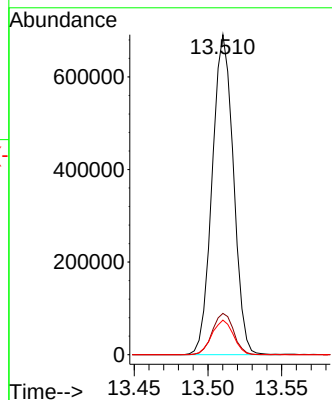
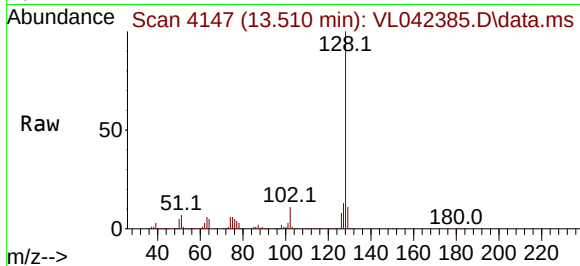




#79
Naphthalene
Concen: 7.676 ppbv
RT: 13.510 min Scan# 4148
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

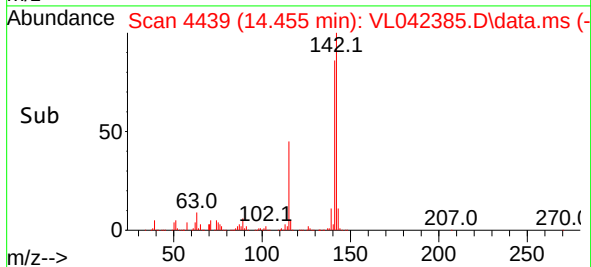
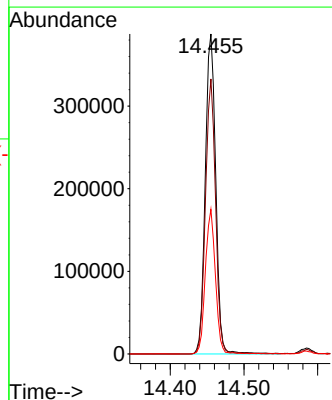
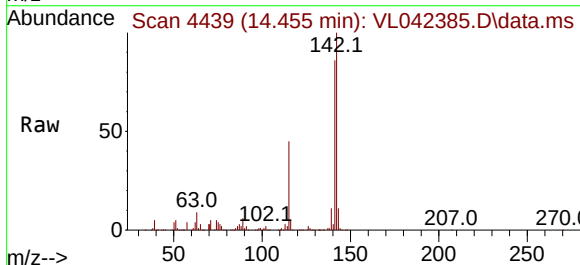
Instrument :
MSVOA_L
ClientSampleId :
VL0418ABS01

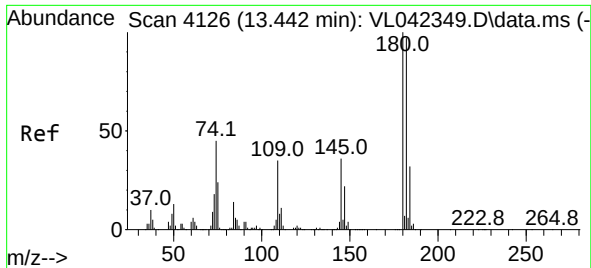
Tgt Ion:128 Resp: 691058
Ion Ratio Lower Upper
128 100
127 12.9 10.6 15.8
129 10.8 8.6 12.8



#80
Naphthalene,2-methyl-
Concen: 7.407 ppbv
RT: 14.455 min Scan# 4439
Delta R.T. -0.003 min
Lab File: VL042385.D
Acq: 18 Apr 2025 11:38

Tgt Ion:142 Resp: 380016
Ion Ratio Lower Upper
142 100
141 83.9 66.8 100.2
115 43.9 33.4 50.2





#81

1,2,4-Trichlorobenzene

Concen: 8.408 ppbv

RT: 13.436 min Scan# 41

Delta R.T. -0.006 min

Lab File: VL042385.D

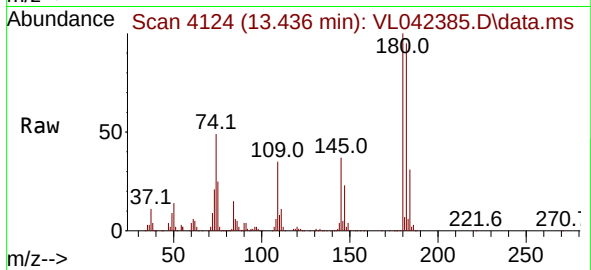
Acq: 18 Apr 2025 11:38

Instrument :

MSVOA_L

ClientSampleId :

VL0418ABS01



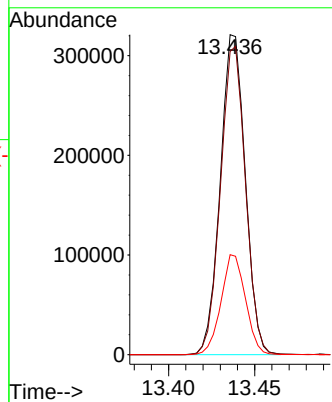
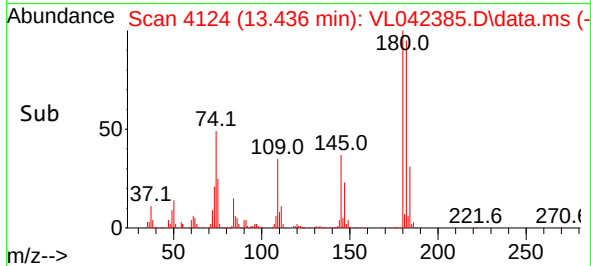
Tgt Ion:180 Resp: 325017

Ion Ratio Lower Upper

180 100

182 96.1 76.8 115.2

184 30.5 24.6 36.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
 Data File : VL042386.D
 Acq On : 18 Apr 2025 12:09
 Operator : SY/MD
 Sample : Q1726-07DL2 40X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-4-03312025DL2

Quant Time: Apr 18 22:57:29 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)

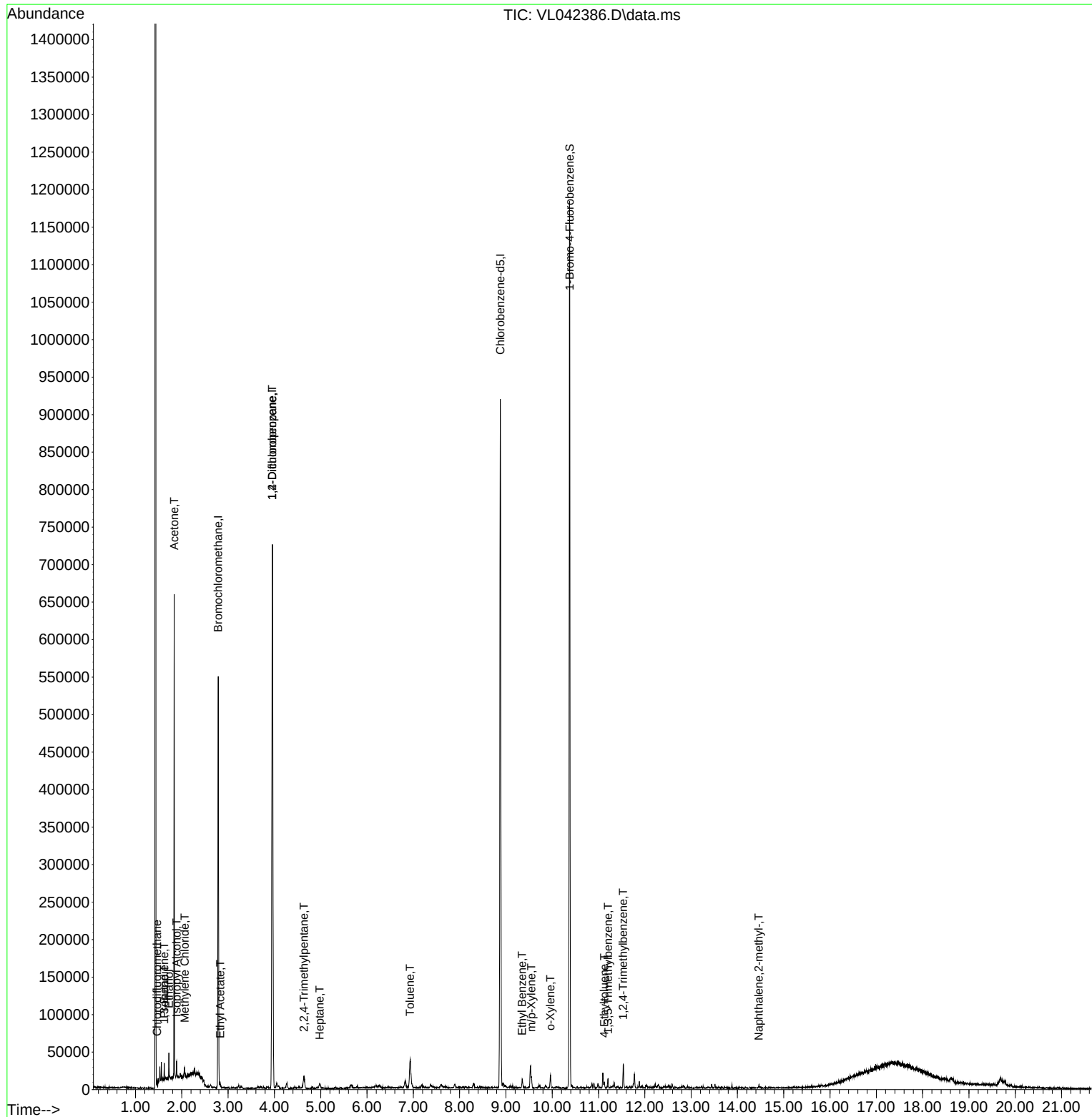
Internal Standards						
1) Bromochloromethane	2.787	49	137576	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	424572	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	368674	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	298684	9.859	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.600%
Target Compounds						
					Qvalue	
3) Chlorodifluoromethane	1.466	51	1868	0.081	ppbv #	80
9) Propene	1.622	41	2578	0.245	ppbv	99
10) Heptane	4.975	43	1295	0.044	ppbv #	50
13) Ethanol	1.722	45	11275	6.730	ppbv	79
15) Acetone	1.835	43	264945	11.764	ppbv	100
16) 1,3-Butadiene	1.619	39	1405	0.130	ppbv #	9
19) Isopropyl Alcohol	1.887	45	9262	0.740	ppbv #	1
20) Methylene Chloride	2.062	84	1558	0.177	ppbv #	68
25) Ethyl Acetate	2.829	43	1871	0.034	ppbv #	70
39) 1,2-Dichloropropane	3.955	63	107583	6.304	ppbv #	23
44) 2,2,4-Trimethylpentane	4.638	57	14250	0.180	ppbv #	88
53) Toluene	6.930	91	17493	0.318	ppbv #	59
58) Ethyl Benzene	9.348	91	4601	0.063	ppbv	99
59) m/p-Xylene	9.548	91	3739	0.064	ppbv #	32
60) o-Xylene	9.963	91	6838	0.115	ppbv	94
72) 4-Ethyltoluene	11.125	105	3430	0.047	ppbv #	63
73) 1,3,5-Trimethylbenzene	11.206	105	4008	0.063	ppbv #	73
74) 1,2,4-Trimethylbenzene	11.532	105	11571	0.155	ppbv #	61
80) Naphthalene,2-methyl-	14.462	142	1553	0.031	ppbv #	71

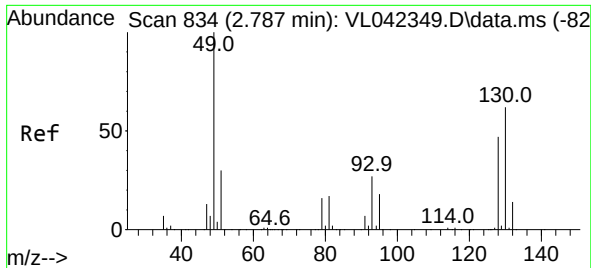
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
Data File : VL042386.D
Acq On : 18 Apr 2025 12:09
Operator : SY/MD
Sample : Q1726-07DL2 40X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL2

Quant Time: Apr 18 22:57:29 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

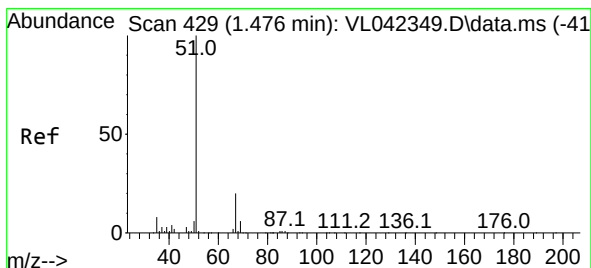
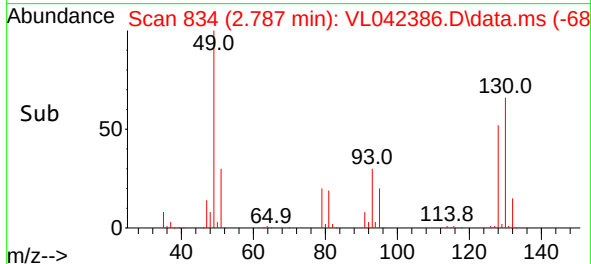
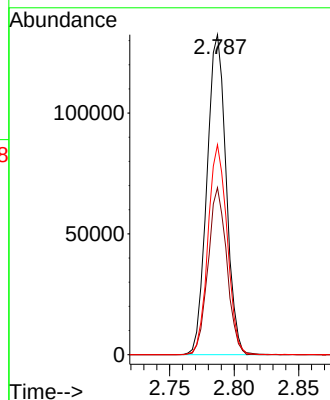
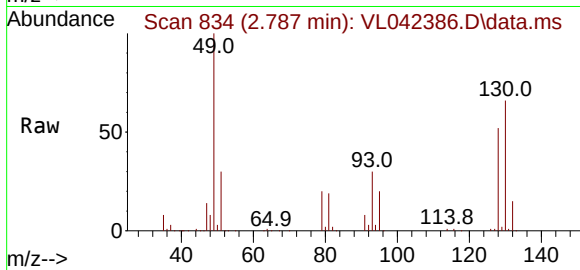




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. 0.000 min
Lab File: VL042386.D
Acq: 18 Apr 2025 12:09

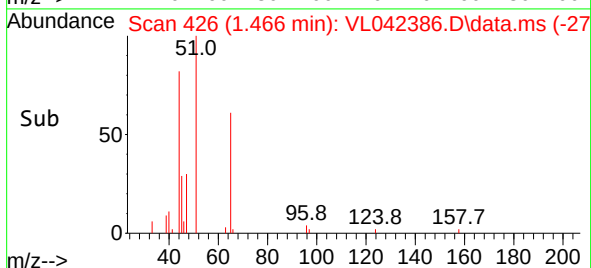
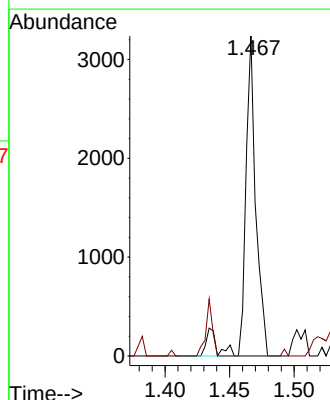
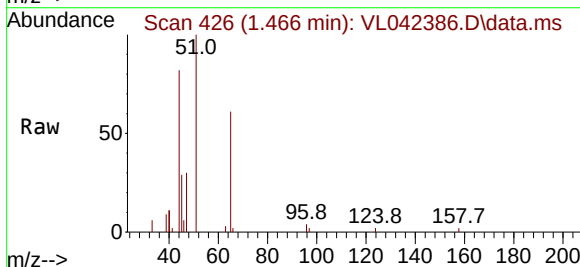
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL2

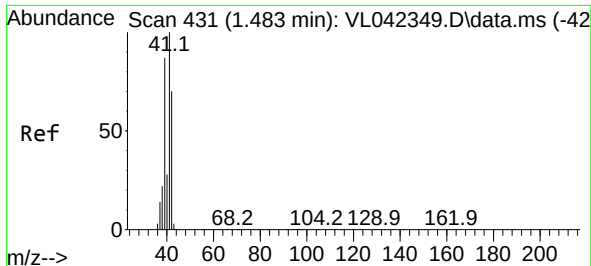
Tgt Ion: 49 Resp: 137576
Ion Ratio Lower Upper
49 100
128 50.8 22.8 68.4
130 65.1 29.3 88.0



#3
Chlorodifluoromethane
Concen: 0.081 ppbv
RT: 1.466 min Scan# 426
Delta R.T. -0.010 min
Lab File: VL042386.D
Acq: 18 Apr 2025 12:09

Tgt Ion: 51 Resp: 1868
Ion Ratio Lower Upper
51 100
67 11.0 16.2 24.4#





#9

Propene

Concen: 0.245 ppbv

RT: 1.622 min Scan# 41

Delta R.T. 0.139 min

Lab File: VL042386.D

Acq: 18 Apr 2025 12:09

Instrument :

MSVOA_L

ClientSampleId :

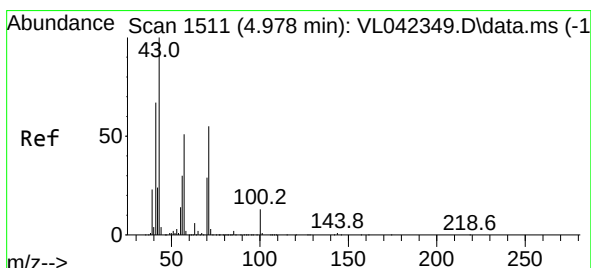
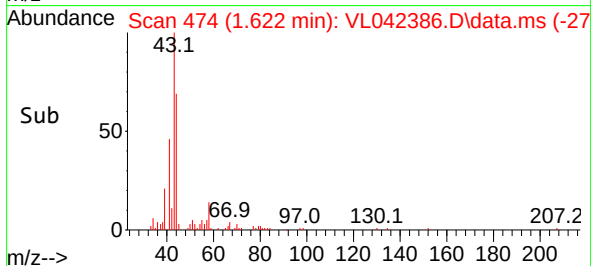
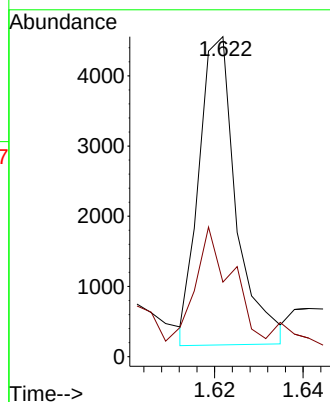
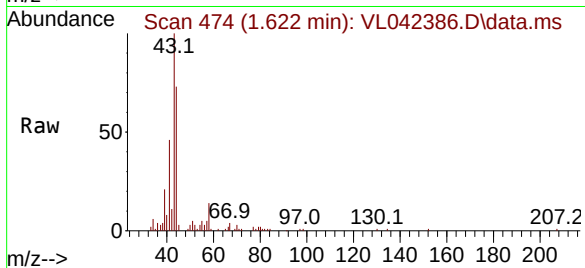
IA-B2-4-03312025DL2

Tgt Ion: 41 Resp: 2578

Ion Ratio Lower Upper

41 100

42 71.3 56.2 84.4



#10

Heptane

Concen: 0.044 ppbv

RT: 4.975 min Scan# 1510

Delta R.T. -0.003 min

Lab File: VL042386.D

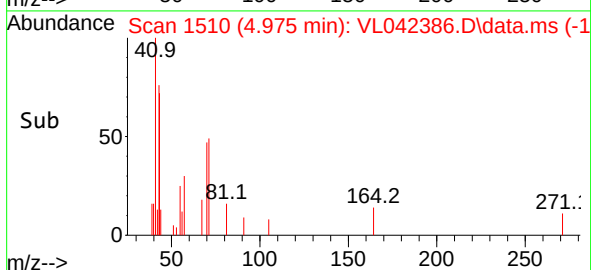
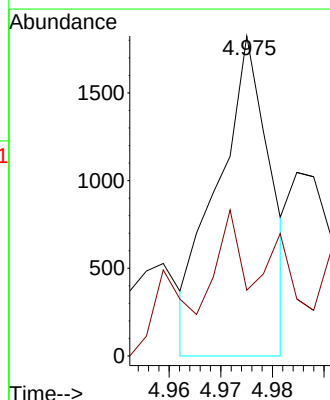
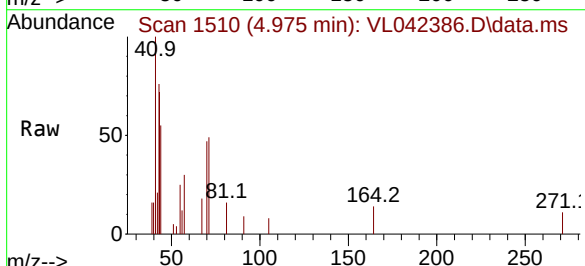
Acq: 18 Apr 2025 12:09

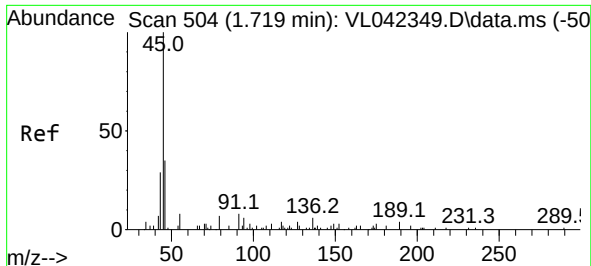
Tgt Ion: 43 Resp: 1295

Ion Ratio Lower Upper

43 100

57 84.1 39.9 59.9#

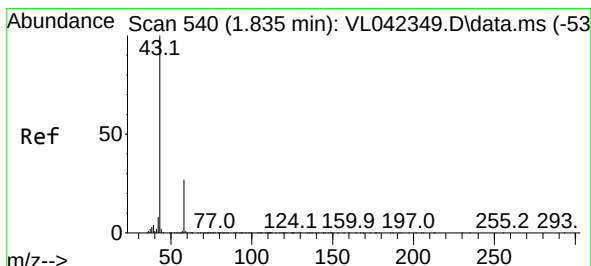
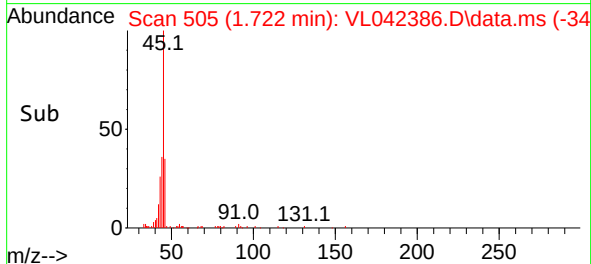
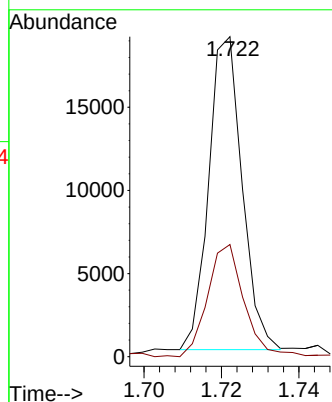
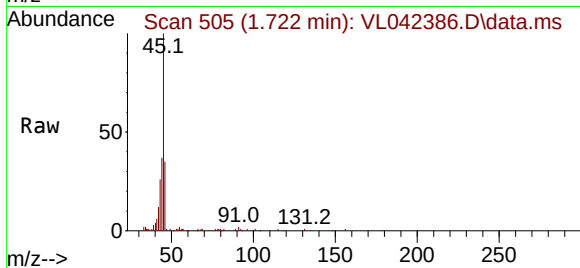




#13
 Ethanol
 Concen: 6.730 ppbv
 RT: 1.722 min Scan# 504
 Delta R.T. 0.003 min
 Lab File: VL042386.D
 Acq: 18 Apr 2025 12:09

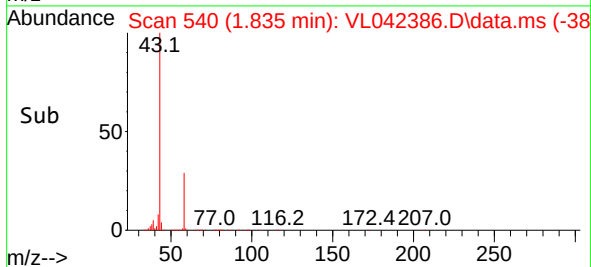
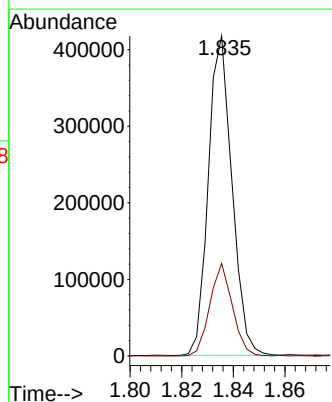
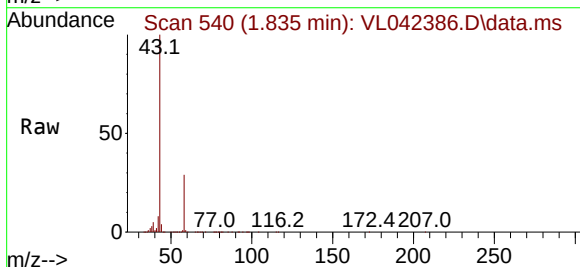
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-4-03312025DL2

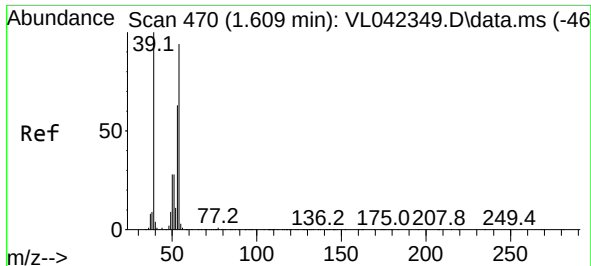
Tgt Ion: 45 Resp: 11275
 Ion Ratio Lower Upper
 45 100
 46 39.6 21.9 87.7



#15
 Acetone
 Concen: 11.764 ppbv
 RT: 1.835 min Scan# 540
 Delta R.T. 0.000 min
 Lab File: VL042386.D
 Acq: 18 Apr 2025 12:09

Tgt Ion: 43 Resp: 264945
 Ion Ratio Lower Upper
 43 100
 58 27.9 22.4 33.6

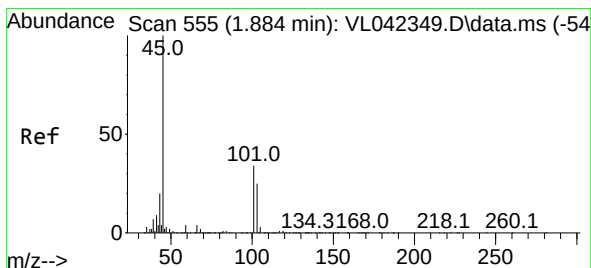
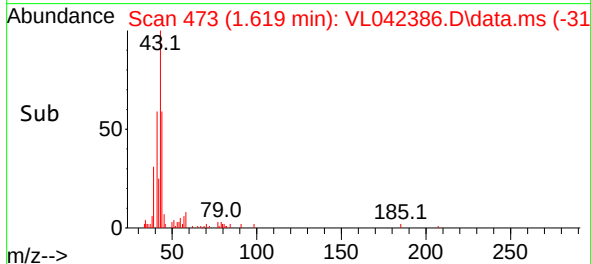
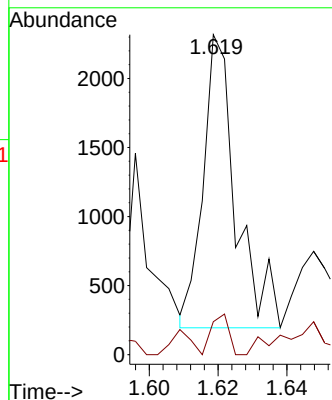
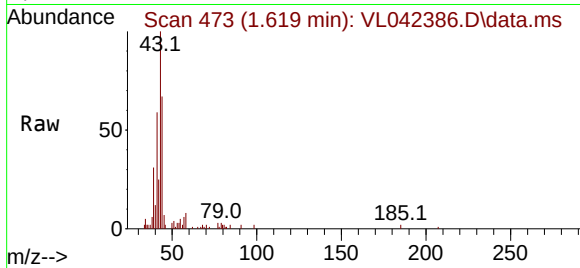




#16
1,3-Butadiene
Concen: 0.130 ppbv
RT: 1.619 min Scan# 41
Delta R.T. 0.010 min
Lab File: VL042386.D
Acq: 18 Apr 2025 12:09

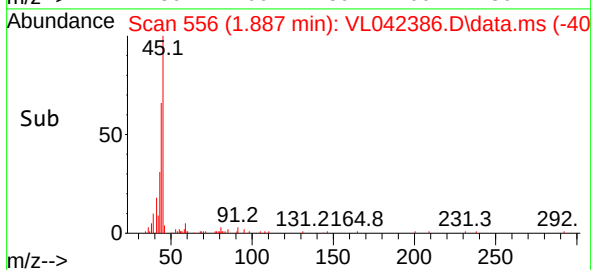
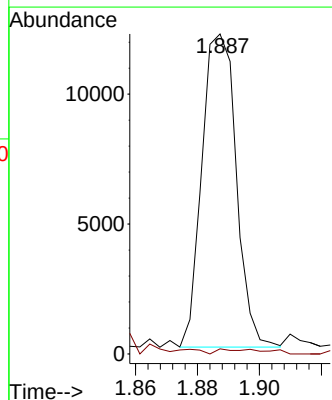
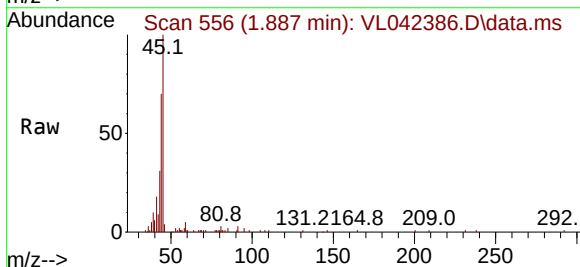
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL2

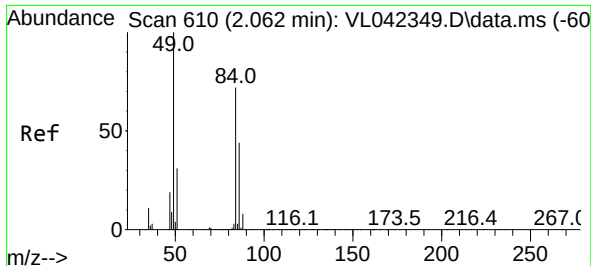
Tgt Ion: 39 Resp: 1405
Ion Ratio Lower Upper
39 100
54 0.0 64.9 97.3#



#19
Isopropyl Alcohol
Concen: 0.740 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL042386.D
Acq: 18 Apr 2025 12:09

Tgt Ion: 45 Resp: 9262
Ion Ratio Lower Upper
45 100
58 797.3 34.5 51.7#

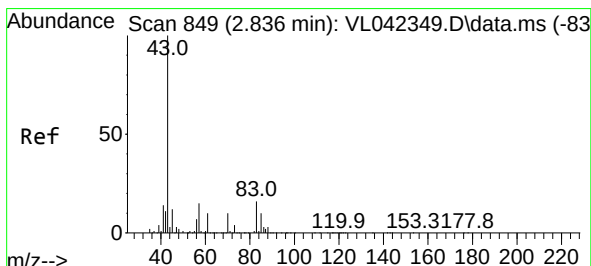
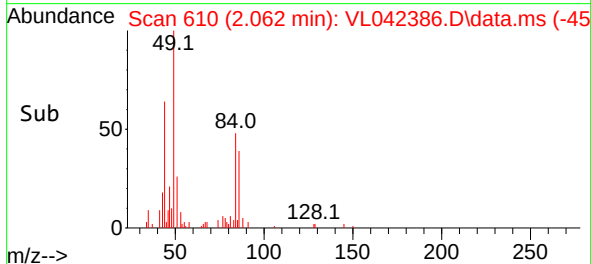
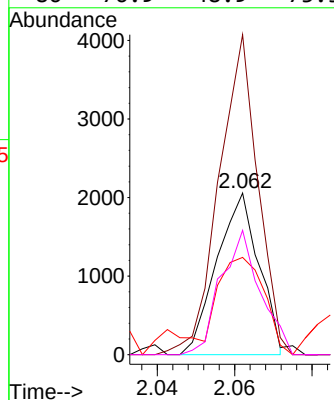
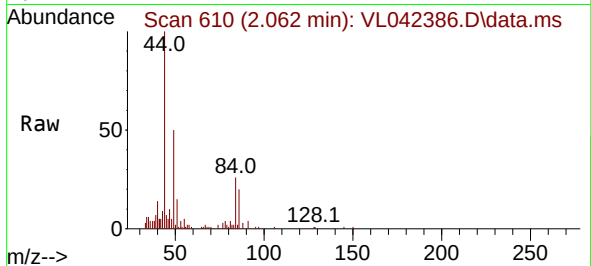




#20
Methylene Chloride
Concen: 0.177 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042386.D
Acq: 18 Apr 2025 12:09

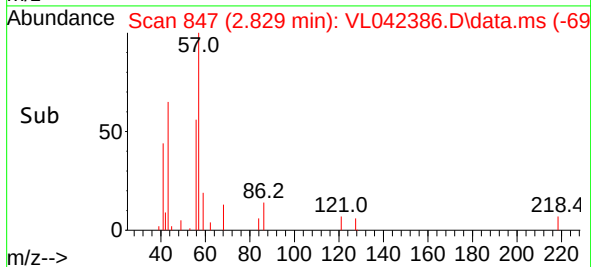
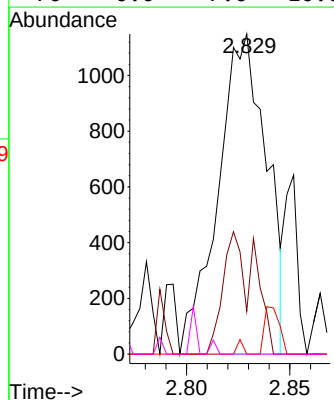
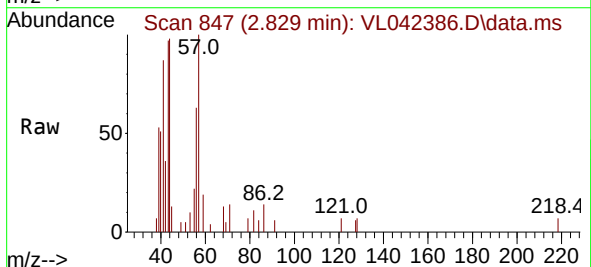
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL2

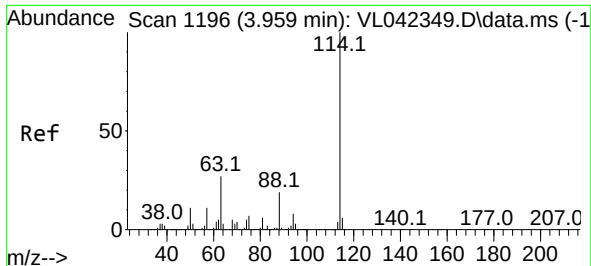
Tgt Ion:	84	Resp:	1558
Ion	Ratio	Lower	Upper
84	100		
49	191.6	111.6	167.4#
51	54.1	35.1	52.7#
86	76.9	48.9	73.3#



#25
Ethyl Acetate
Concen: 0.034 ppbv
RT: 2.829 min Scan# 847
Delta R.T. -0.006 min
Lab File: VL042386.D
Acq: 18 Apr 2025 12:09

Tgt Ion:	43	Resp:	1871
Ion	Ratio	Lower	Upper
43	100		
45	24.5	8.3	12.5#
61	0.0	7.3	10.9#
70	0.0	7.0	10.6#

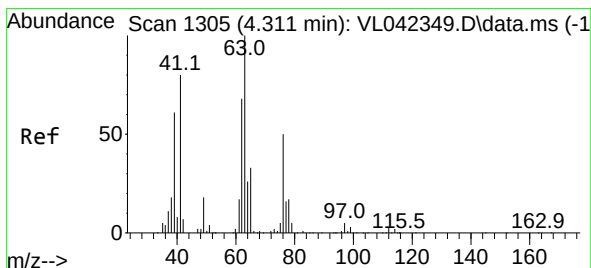
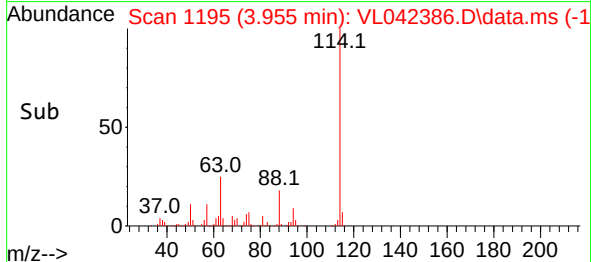
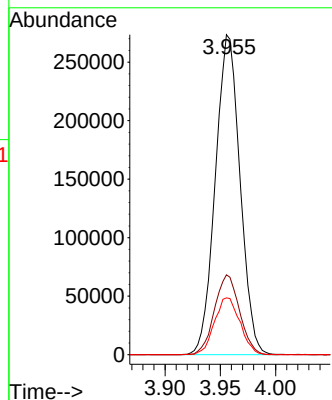
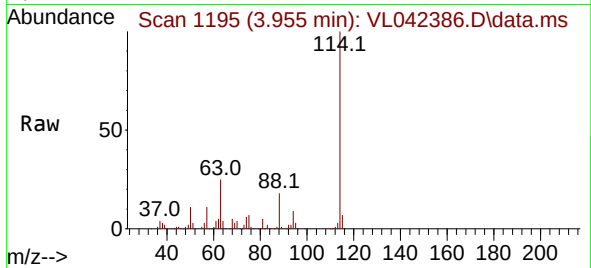




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.955 min Scan# 1195
 Delta R.T. -0.003 min
 Lab File: VL042386.D
 Acq: 18 Apr 2025 12:09

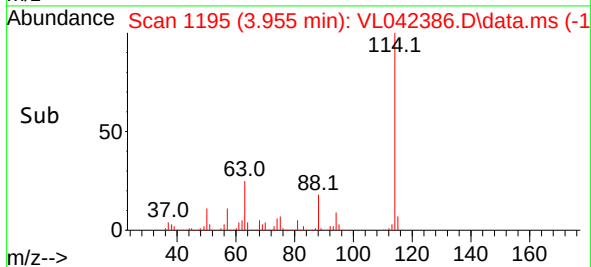
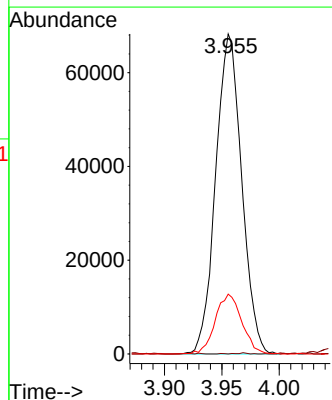
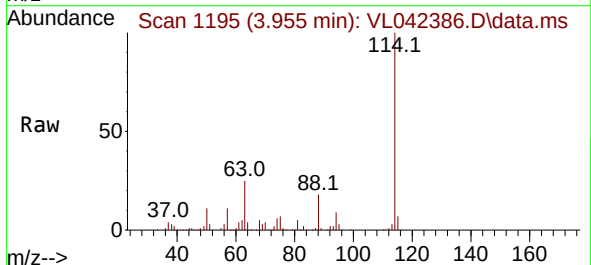
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-4-03312025DL2

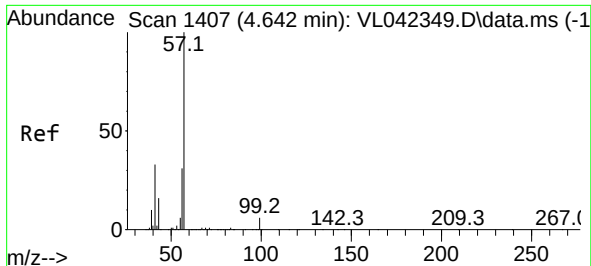
Tgt Ion:114 Resp: 424572
 Ion Ratio Lower Upper
 114 100
 63 25.4 21.8 32.6
 88 18.4 15.5 23.3



#39
 1,2-Dichloropropane
 Concen: 6.304 ppbv
 RT: 3.955 min Scan# 1195
 Delta R.T. -0.356 min
 Lab File: VL042386.D
 Acq: 18 Apr 2025 12:09

Tgt Ion: 63 Resp: 107583
 Ion Ratio Lower Upper
 63 100
 41 0.0 64.2 96.2#
 62 18.7 54.3 81.5#





#44

2,2,4-Trimethylpentane

Concen: 0.180 ppbv

RT: 4.638 min Scan# 1406

Delta R.T. -0.003 min

Lab File: VL042386.D

Acq: 18 Apr 2025 12:09

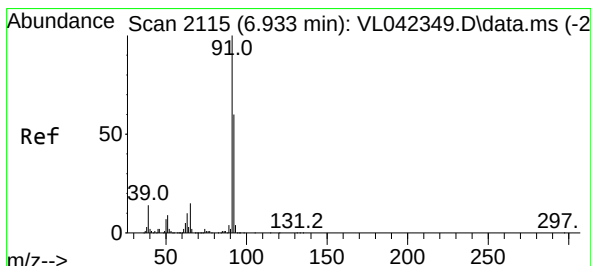
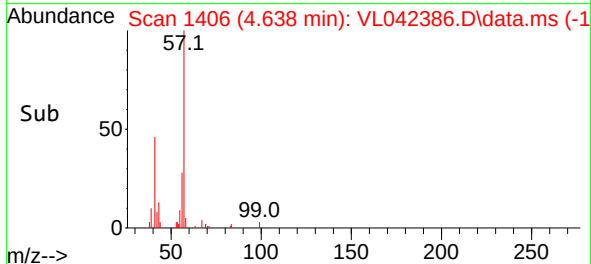
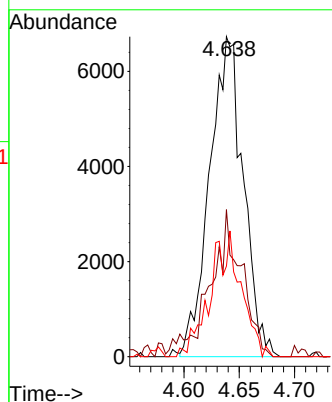
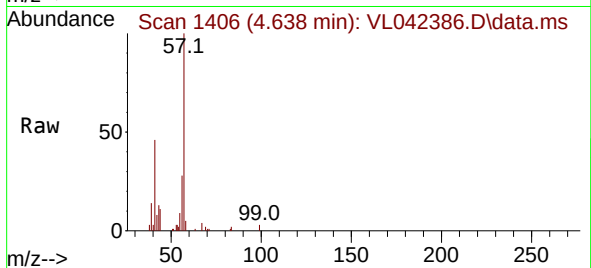
Instrument :

MSVOA_L

ClientSampleId :

IA-B2-4-03312025DL2

Tgt Ion: 57	Resp: 14250
Ion Ratio	Lower Upper
57 100	
41 43.5	27.2 40.8#
56 36.0	25.7 38.5



#53

Toluene

Concen: 0.318 ppbv

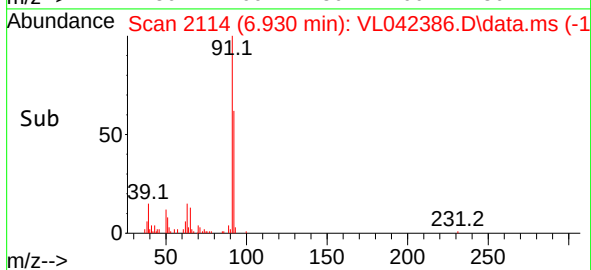
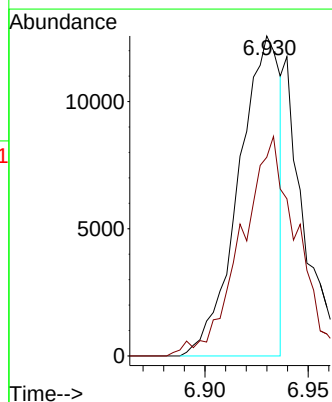
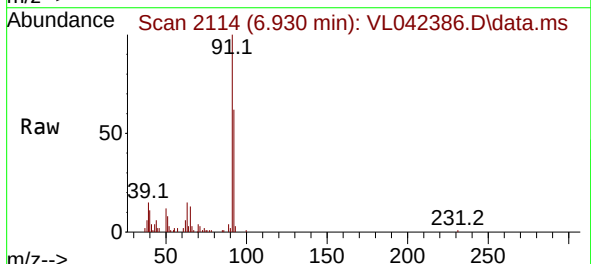
RT: 6.930 min Scan# 2114

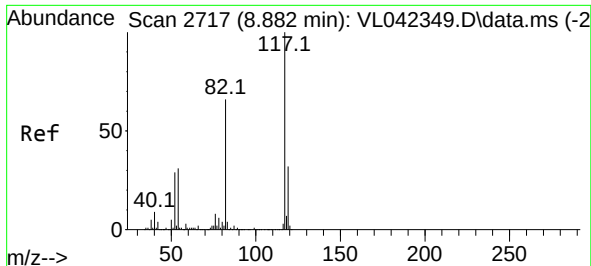
Delta R.T. -0.003 min

Lab File: VL042386.D

Acq: 18 Apr 2025 12:09

Tgt Ion: 91	Resp: 17493
Ion Ratio	Lower Upper
91 100	
92 91.6	48.2 72.4#

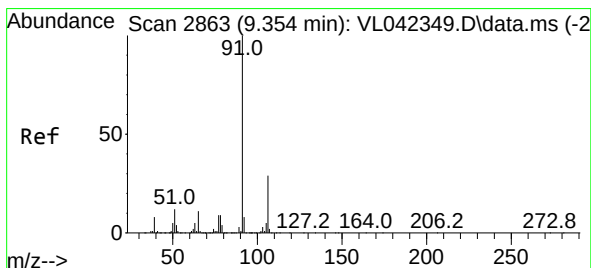
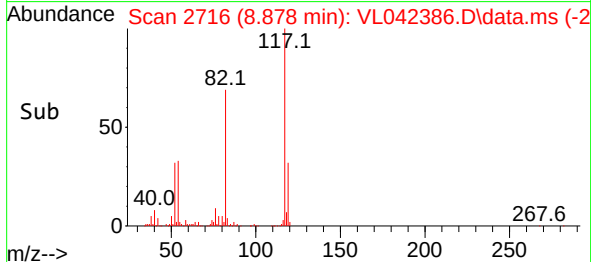
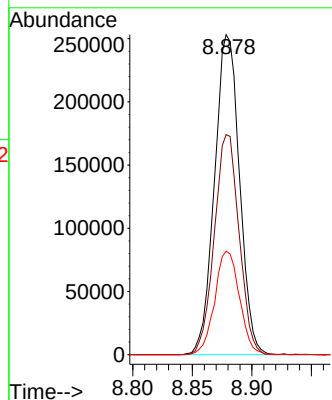
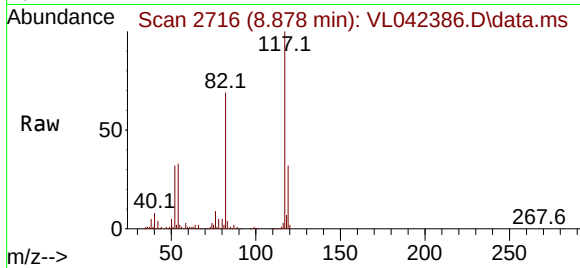




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042386.D
Acq: 18 Apr 2025 12:09

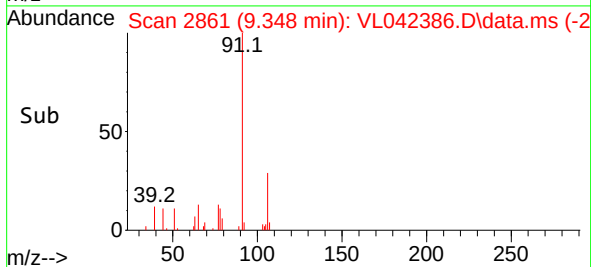
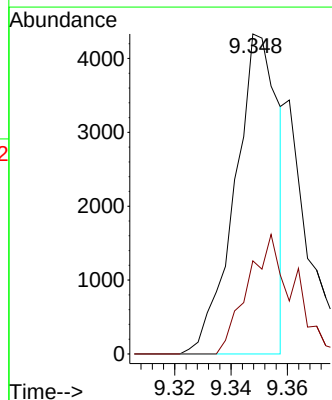
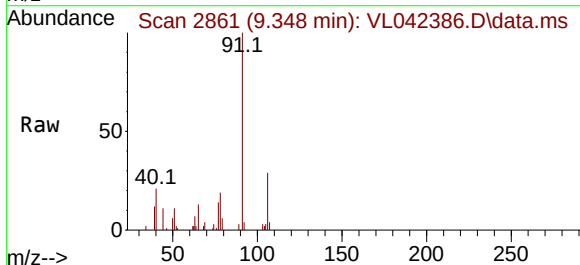
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL2

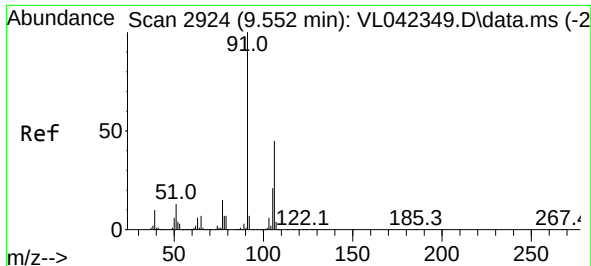
Tgt Ion:117 Resp: 368674
Ion Ratio Lower Upper
117 100
82 68.2 57.8 86.6
119 32.1 25.2 37.8



#58
Ethyl Benzene
Concen: 0.063 ppbv
RT: 9.348 min Scan# 2861
Delta R.T. -0.006 min
Lab File: VL042386.D
Acq: 18 Apr 2025 12:09

Tgt Ion: 91 Resp: 4601
Ion Ratio Lower Upper
91 100
106 29.1 23.0 34.4





#59

m/p-Xylene

Concen: 0.064 ppbv

RT: 9.548 min Scan# 2924

Delta R.T. -0.003 min

Lab File: VL042386.D

Acq: 18 Apr 2025 12:09

Instrument :

MSVOA_L

ClientSampleId :

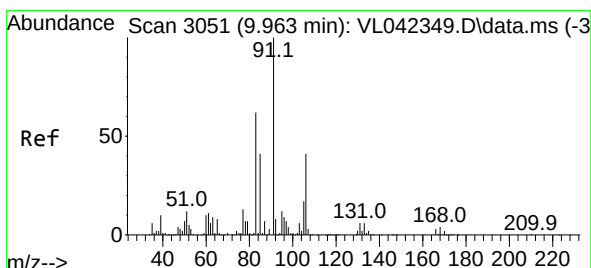
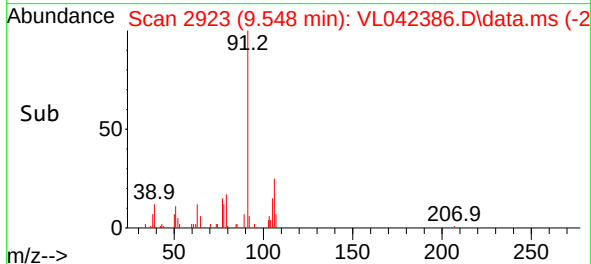
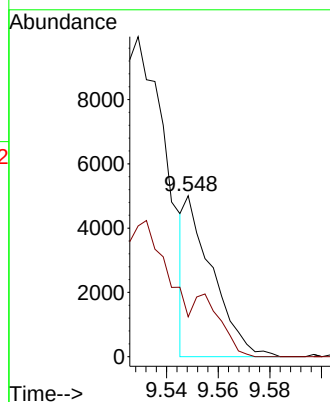
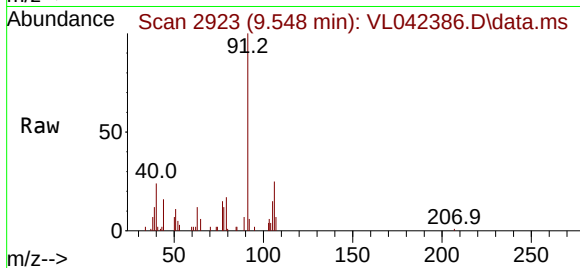
IA-B2-4-03312025DL2

Tgt Ion: 91 Resp: 3739

Ion Ratio Lower Upper

91 100

106 0.0 35.4 53.2#



#60

o-Xylene

Concen: 0.115 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. 0.000 min

Lab File: VL042386.D

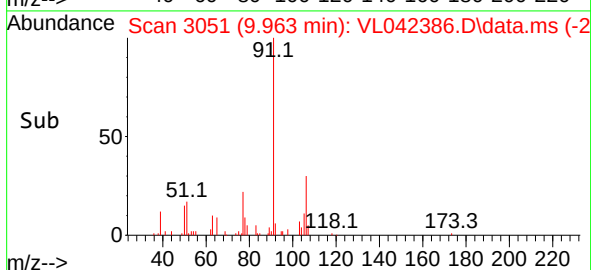
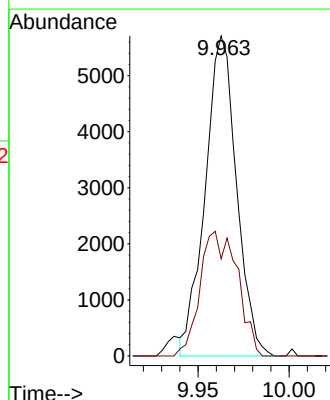
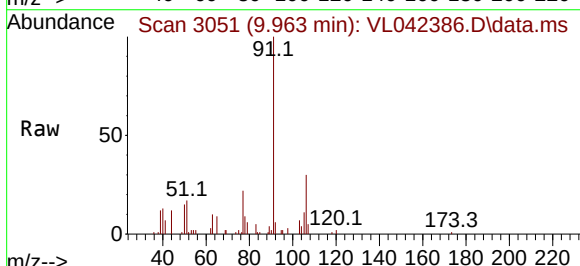
Acq: 18 Apr 2025 12:09

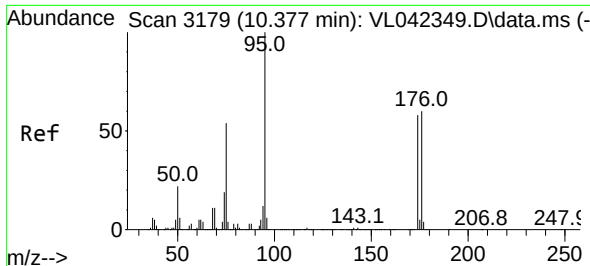
Tgt Ion: 91 Resp: 6838

Ion Ratio Lower Upper

91 100

106 46.2 21.1 63.4

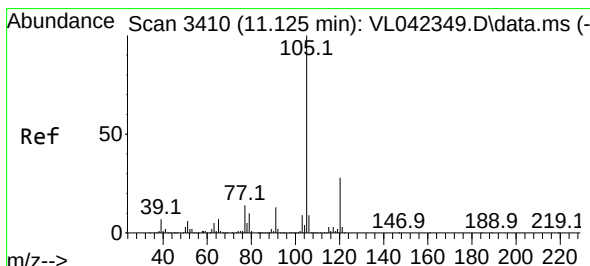
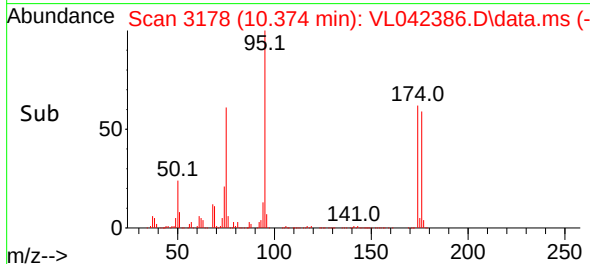
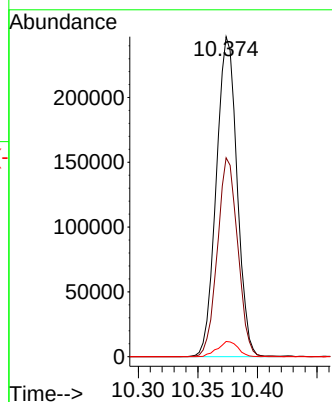
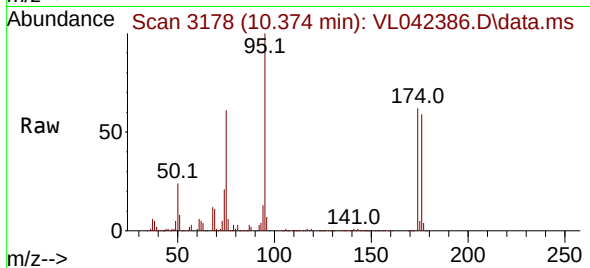




#68
1-Bromo-4-Fluorobenzene
Concen: 9.859 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. -0.003 min
Lab File: VL042386.D
Acq: 18 Apr 2025 12:09

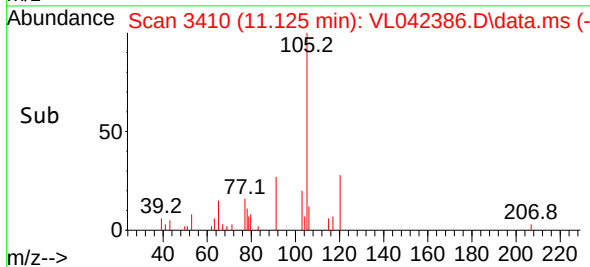
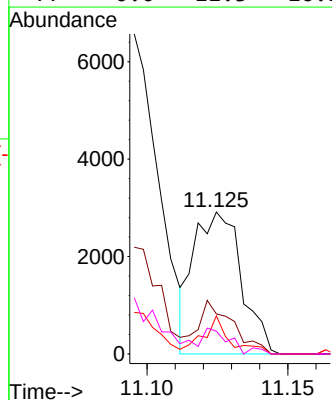
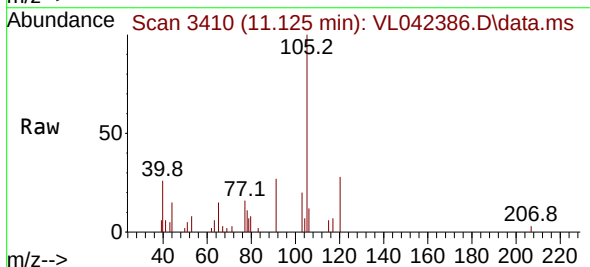
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-4-03312025DL2

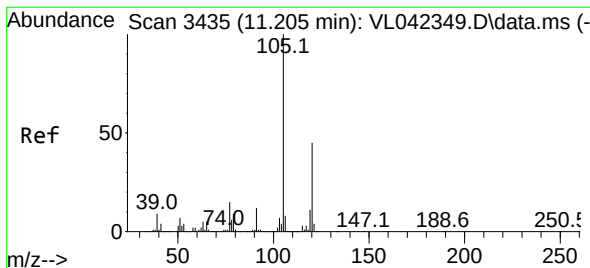
Tgt Ion: 95 Resp: 298684
Ion Ratio Lower Upper
95 100
174 61.0 48.5 72.7
175 4.7 3.7 5.5



#72
4-Ethyltoluene
Concen: 0.047 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.000 min
Lab File: VL042386.D
Acq: 18 Apr 2025 12:09

Tgt Ion: 105 Resp: 3430
Ion Ratio Lower Upper
105 100
120 0.0 23.2 34.8#
91 13.9 10.4 15.6
77 0.0 11.3 16.9#





#73

1,3,5-Trimethylbenzene

Concen: 0.063 ppbv

RT: 11.206 min Scan# 3435

Delta R.T. 0.000 min

Lab File: VL042386.D

Acq: 18 Apr 2025 12:09

Instrument :

MSVOA_1

ClientSampleId :

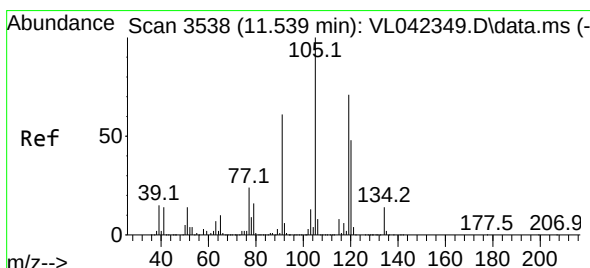
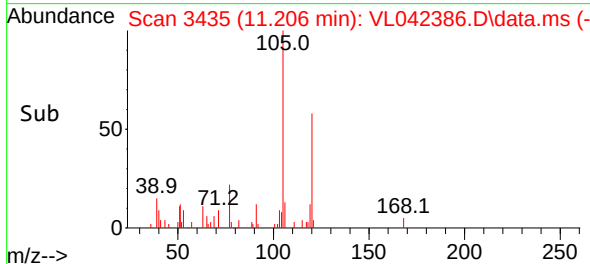
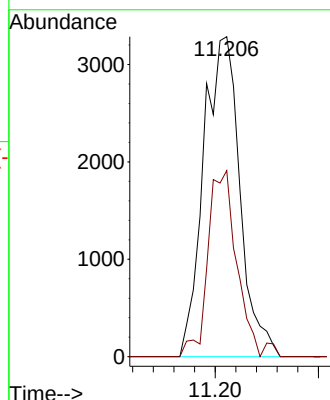
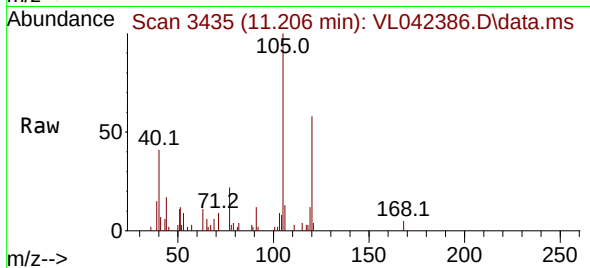
IA-B2-4-03312025DL2

Tgt Ion:105 Resp: 4008

Ion Ratio Lower Upper

105 100

120 62.1 35.6 53.4#



#74

1,2,4-Trimethylbenzene

Concen: 0.155 ppbv

RT: 11.532 min Scan# 3536

Delta R.T. -0.006 min

Lab File: VL042386.D

Acq: 18 Apr 2025 12:09

Tgt Ion:105 Resp: 11571

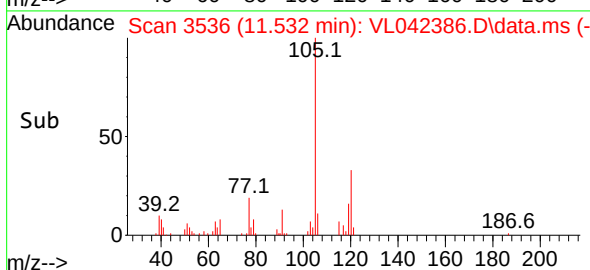
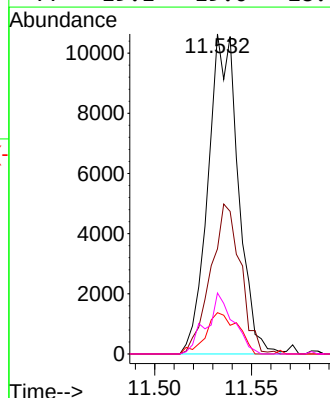
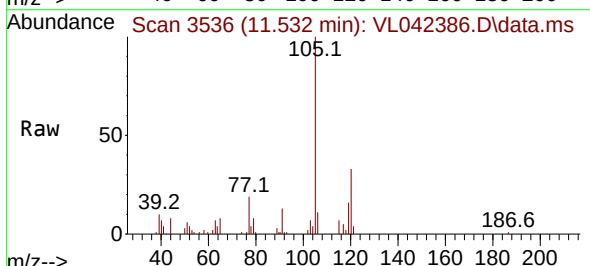
Ion Ratio Lower Upper

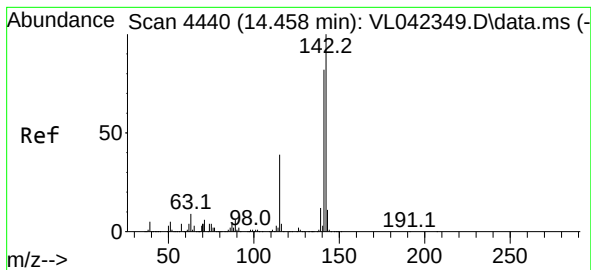
105 100

120 32.9 38.1 57.1#

91 12.9 48.8 73.2#

77 19.1 19.0 28.4





#80

Naphthalene, 2-methyl-

Concen: 0.031 ppbv

RT: 14.462 min Scan# 44

Delta R.T. 0.003 min

Lab File: VL042386.D

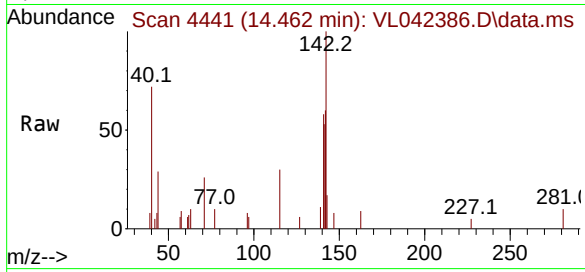
Acq: 18 Apr 2025 12:09

Instrument :

MSVOA_L

ClientSampleId :

IA-B2-4-03312025DL2



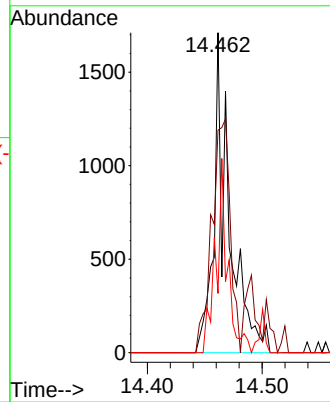
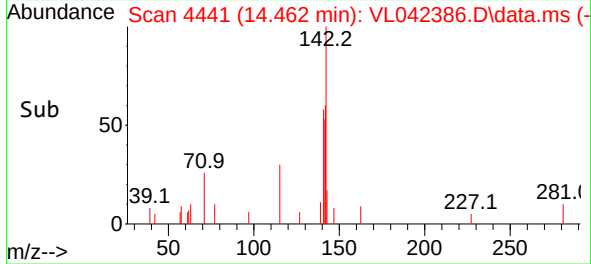
Tgt Ion:142 Resp: 1553

Ion Ratio Lower Upper

142 100

141 115.5 66.8 100.2#

115 51.8 33.4 50.2#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
 Data File : VL042387.D
 Acq On : 18 Apr 2025 12:41
 Operator : SY/MD
 Sample : Q1726-01DL2 40X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-DUP-3-03312025DL2

Quant Time: Apr 18 22:57:54 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

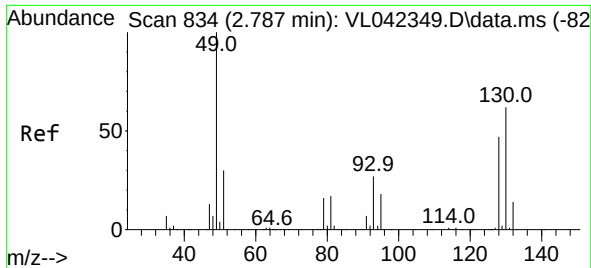
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	2.784	49	133179	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	411086	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	357783	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	291643	9.920	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.200%
Target Compounds						
					Qvalue	
3) Chlorodifluoromethane	1.466	51	1391	0.062	ppbv #	84
9) Propene	1.486	41	737	0.072	ppbv #	15
10) Heptane	4.968	43	2621	0.091	ppbv #	37
13) Ethanol	1.719	45	9034	5.570	ppbv	89
15) Acetone	1.832	43	267863	12.286	ppbv	99
16) 1,3-Butadiene	1.619	39	1037	0.099	ppbv #	46
19) Isopropyl Alcohol	1.884	45	8878	0.733	ppbv #	1
20) Methylene Chloride	2.059	84	1927	0.226	ppbv	88
23) Vinyl Acetate	2.450	43	665	0.075	ppbv #	44
26) Hexane	2.826	57	2086	0.096	ppbv #	40
36) Benzene	3.654	78	1745	0.039	ppbv #	61
39) 1,2-Dichloropropane	3.952	63	106017	6.416	ppbv #	22
44) 2,2,4-Trimethylpentane	4.629	57	24464	0.319	ppbv #	86
53) Toluene	6.923	91	50250	0.944	ppbv	99
58) Ethyl Benzene	9.348	91	9917	0.140	ppbv	100
59) m/p-Xylene	9.526	91	40839	0.715	ppbv	99
60) o-Xylene	9.959	91	16348	0.284	ppbv	94
64) n-propylbenzene	10.989	120	1431	0.067	ppbv	79
65) tert-Butylbenzene	11.532	119	3021	0.039	ppbv #	75
66) Benzyl Chloride	11.539	91	1010	0.118	ppbv #	70
72) 4-Ethyltoluene	11.121	105	7156	0.102	ppbv #	56
73) 1,3,5-Trimethylbenzene	11.199	105	5458	0.088	ppbv #	73
74) 1,2,4-Trimethylbenzene	11.532	105	26096	0.360	ppbv #	64

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

Quant Time: Apr 18 22:57:54 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

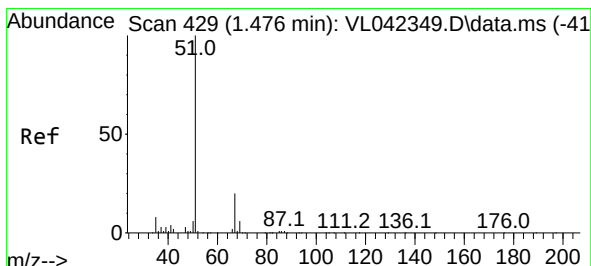
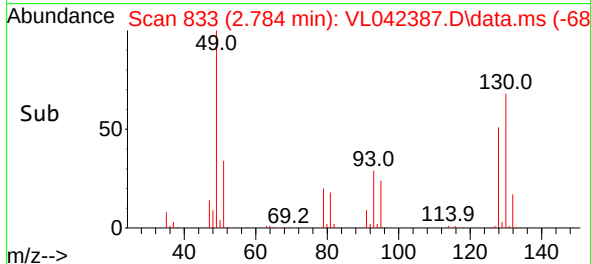
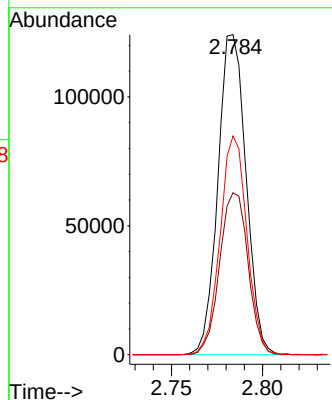
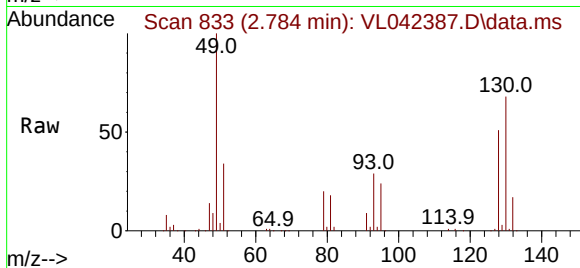




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL042387.D
Acq: 18 Apr 2025 12:41

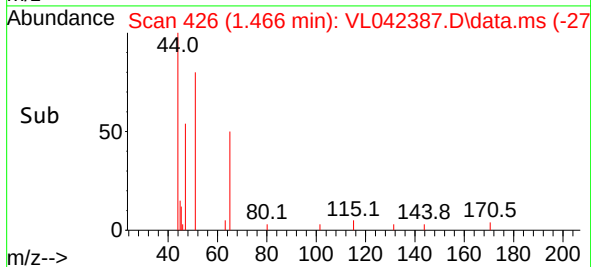
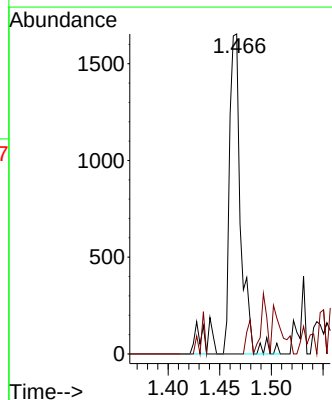
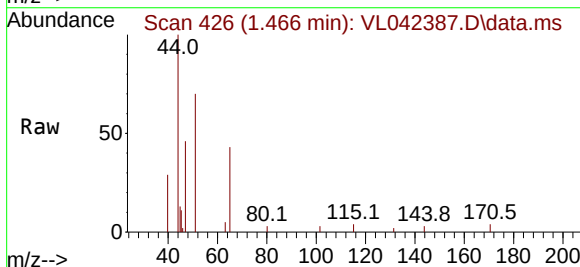
Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL2

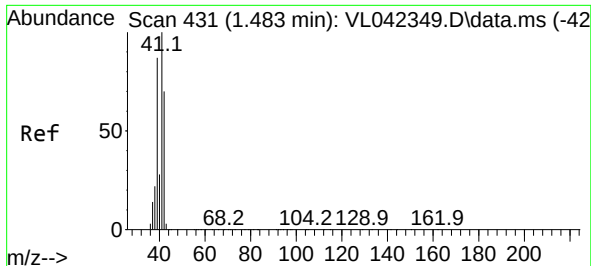
Tgt Ion: 49 Resp: 133179
Ion Ratio Lower Upper
49 100
128 51.2 22.8 68.4
130 65.3 29.3 88.0



#3
Chlorodifluoromethane
Concen: 0.062 ppbv
RT: 1.466 min Scan# 426
Delta R.T. -0.010 min
Lab File: VL042387.D
Acq: 18 Apr 2025 12:41

Tgt Ion: 51 Resp: 1391
Ion Ratio Lower Upper
51 100
67 12.9 16.2 24.4#





#9

Propene

Concen: 0.072 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042387.D

Acq: 18 Apr 2025 12:41

Instrument :

MSVOA_L

ClientSampleId :

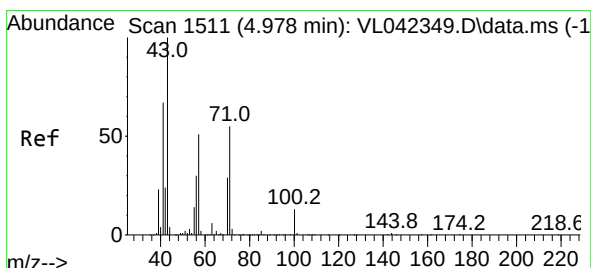
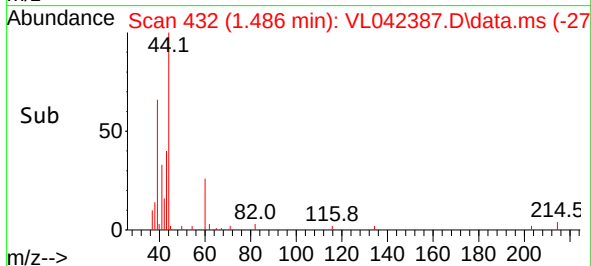
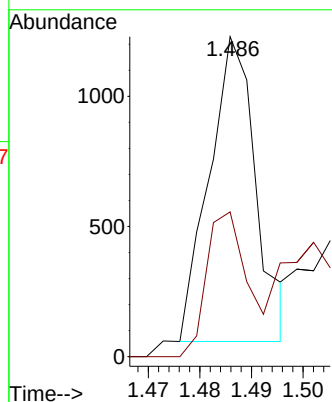
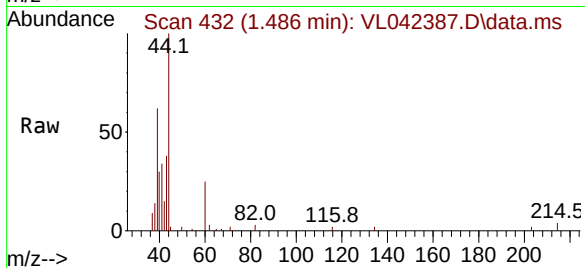
IA-DUP-3-03312025DL2

Tgt Ion: 41 Resp: 737

Ion Ratio Lower Upper

41 100

42 0.0 56.2 84.4#



#10

Heptane

Concen: 0.091 ppbv

RT: 4.968 min Scan# 1508

Delta R.T. -0.010 min

Lab File: VL042387.D

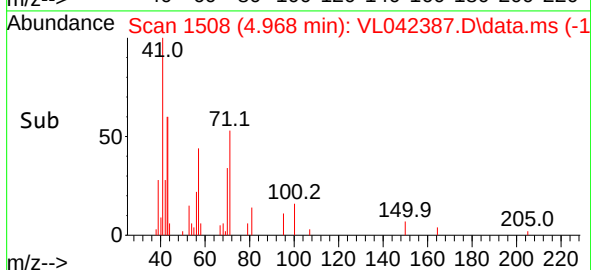
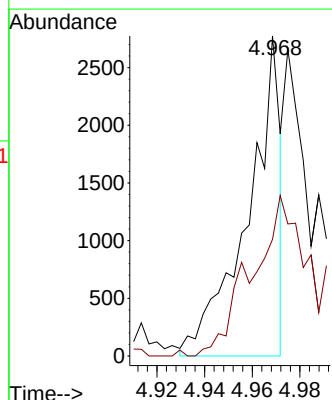
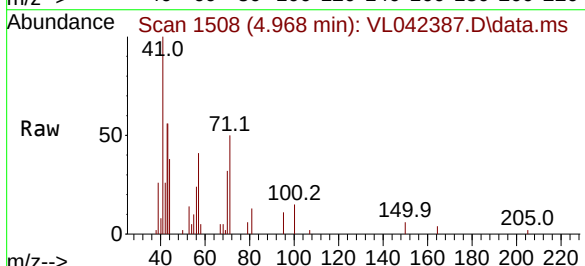
Acq: 18 Apr 2025 12:41

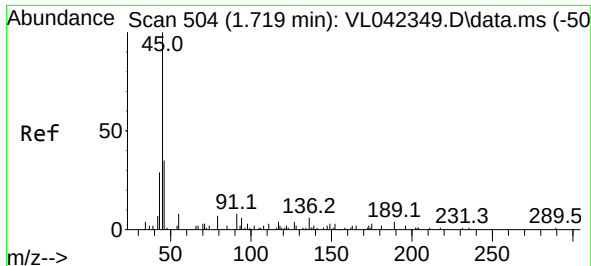
Tgt Ion: 43 Resp: 2621

Ion Ratio Lower Upper

43 100

57 93.2 39.9 59.9#

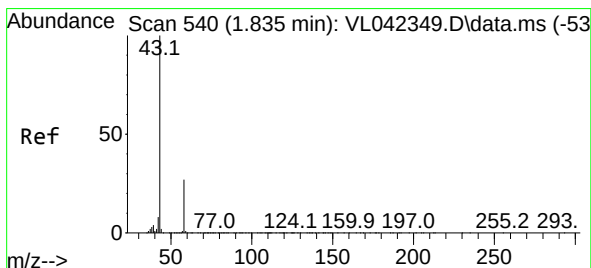
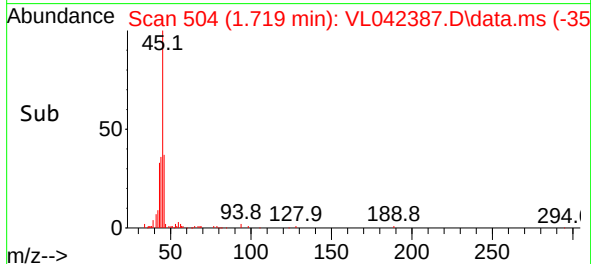
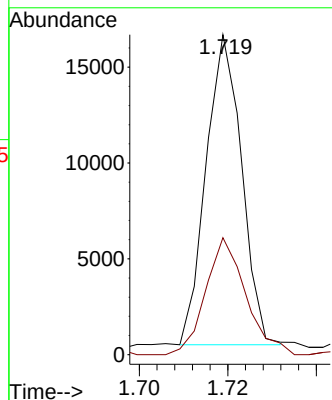
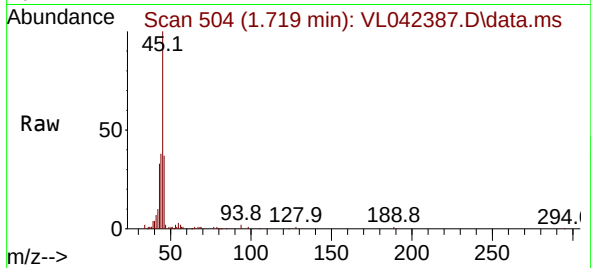




#13
Ethanol
Concen: 5.570 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042387.D
Acq: 18 Apr 2025 12:41

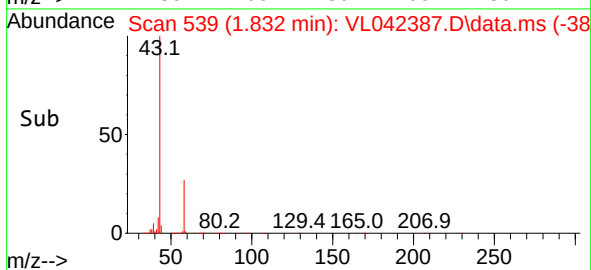
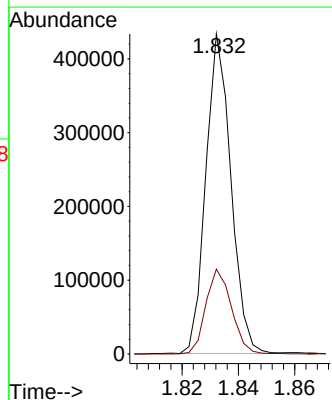
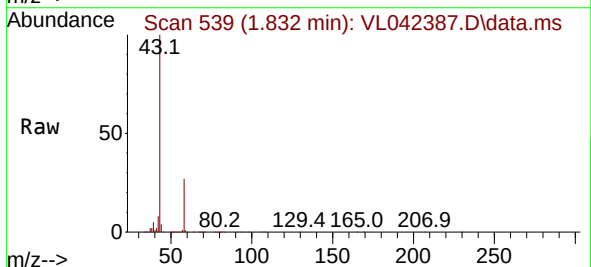
Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL2

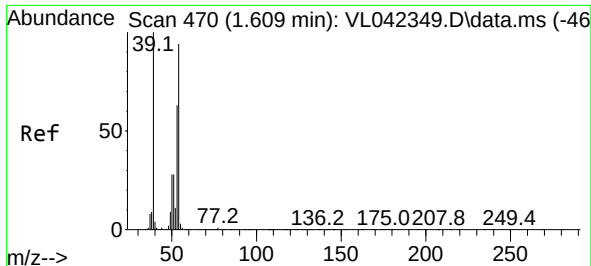
Tgt Ion: 45 Resp: 9034
Ion Ratio Lower Upper
45 100
46 46.7 21.9 87.7



#15
Acetone
Concen: 12.286 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.003 min
Lab File: VL042387.D
Acq: 18 Apr 2025 12:41

Tgt Ion: 43 Resp: 267863
Ion Ratio Lower Upper
43 100
58 27.3 22.4 33.6

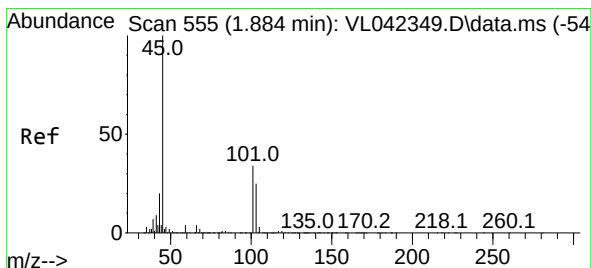
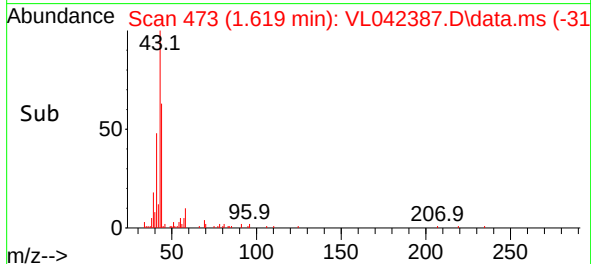
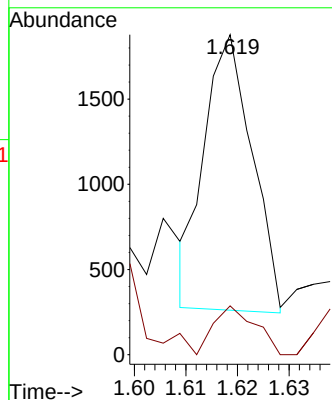
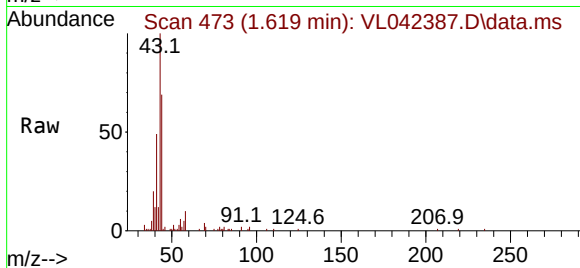




#16
1,3-Butadiene
Concen: 0.099 ppbv
RT: 1.619 min Scan# 473
Delta R.T. 0.010 min
Lab File: VL042387.D
Acq: 18 Apr 2025 12:41

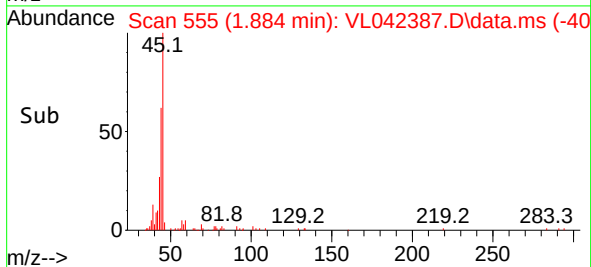
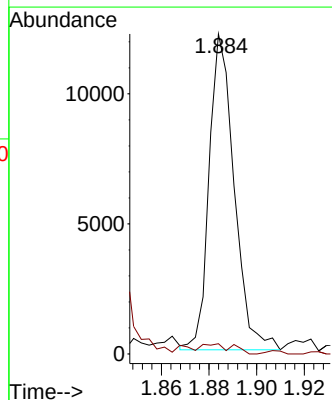
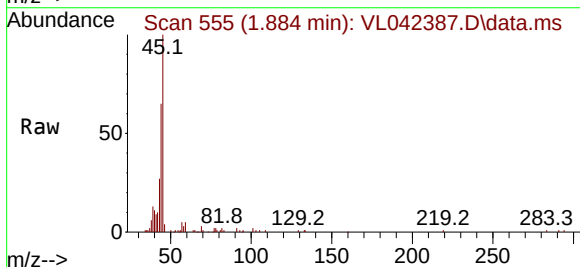
Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL2

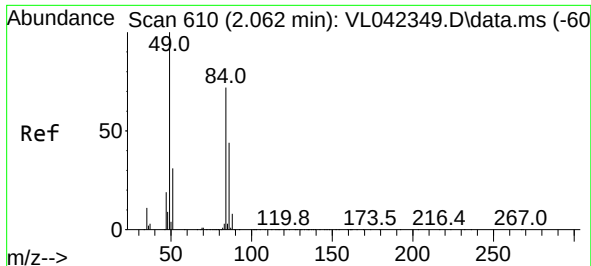
Tgt Ion: 39 Resp: 1037
Ion Ratio Lower Upper
39 100
54 32.7 64.9 97.3#



#19
Isopropyl Alcohol
Concen: 0.733 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.000 min
Lab File: VL042387.D
Acq: 18 Apr 2025 12:41

Tgt Ion: 45 Resp: 8878
Ion Ratio Lower Upper
45 100
58 823.5 34.5 51.7#



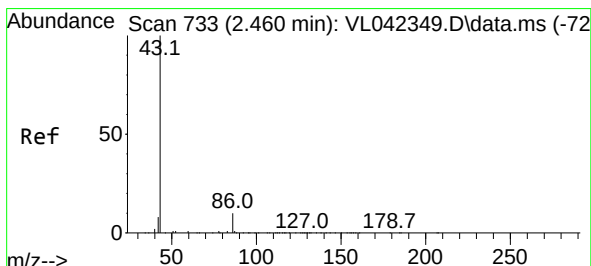
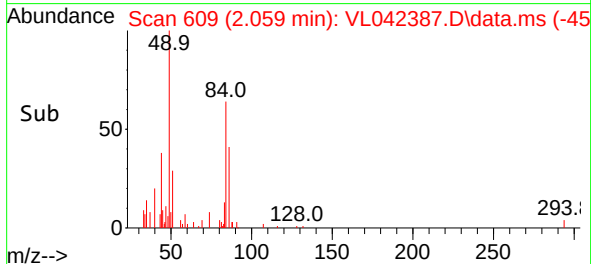
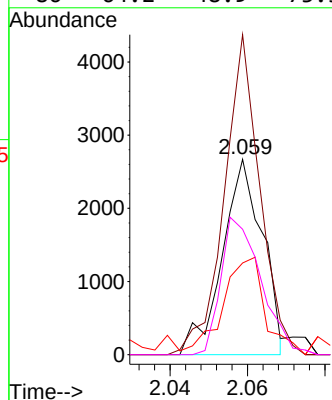
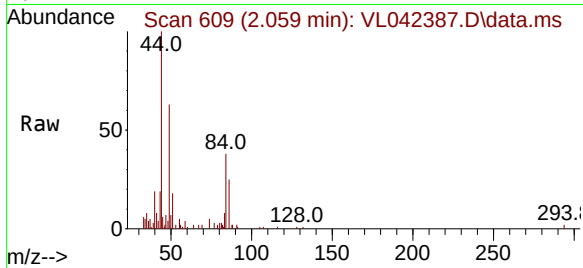


#20
Methylene Chloride
Concen: 0.226 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.003 min
Lab File: VL042387.D
Acq: 18 Apr 2025 12:41

Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL2

Tgt Ion: 84 Resp: 1927

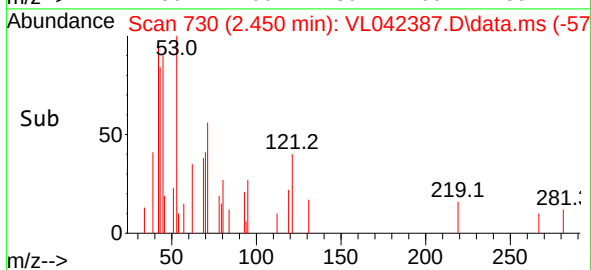
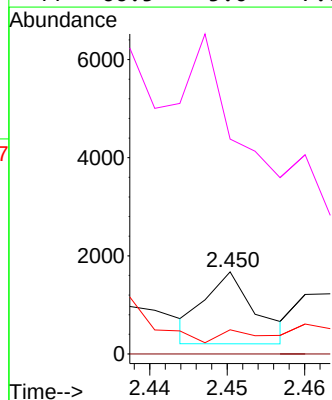
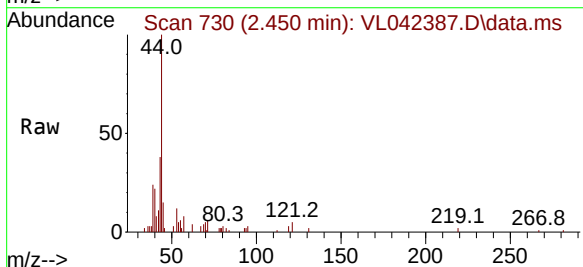
Ion	Ratio	Lower	Upper
84	100		
49	161.2	111.6	167.4
51	45.0	35.1	52.7
86	64.2	48.9	73.3

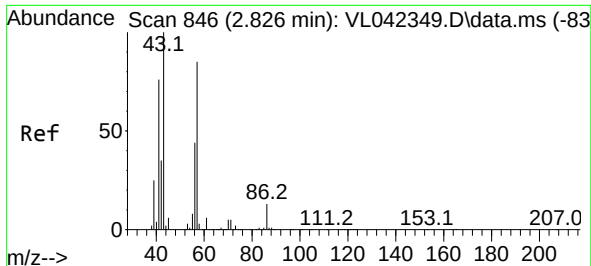


#23
Vinyl Acetate
Concen: 0.075 ppbv
RT: 2.450 min Scan# 730
Delta R.T. -0.010 min
Lab File: VL042387.D
Acq: 18 Apr 2025 12:41

Tgt Ion: 43 Resp: 665

Ion	Ratio	Lower	Upper
43	100		
86	0.0	6.5	9.7#
42	11.4	7.8	11.8
44	66.5	5.0	7.6#

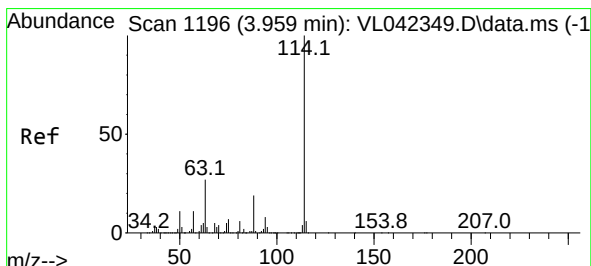
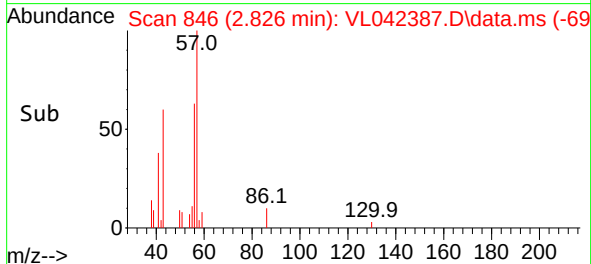
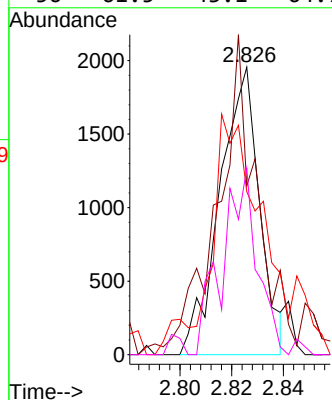
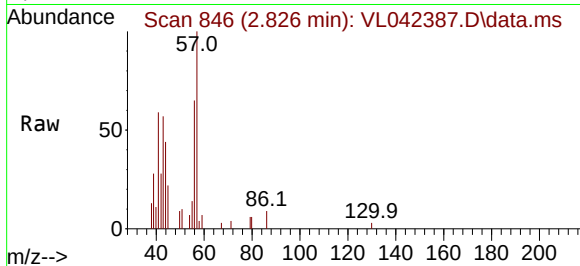




#26
Hexane
Concen: 0.096 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042387.D
Acq: 18 Apr 2025 12:41

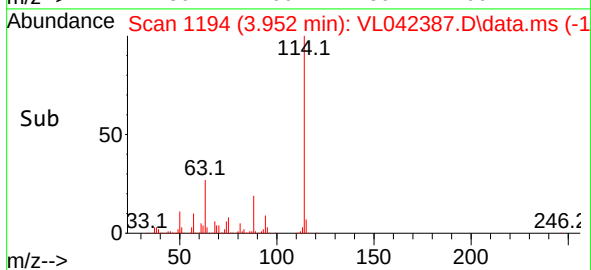
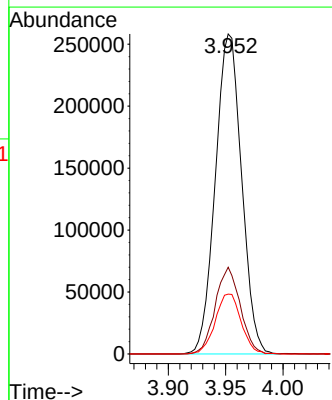
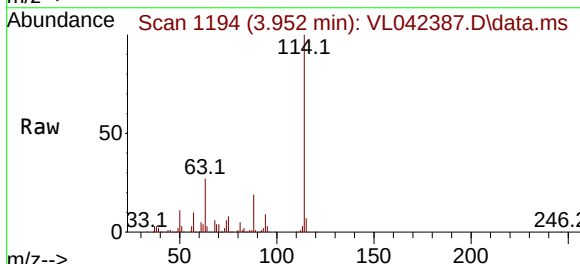
Instrument :
MSVOA_1
ClientSampleId :
IA-DUP-3-03312025DL2

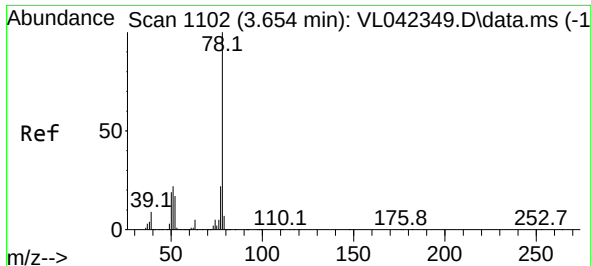
Tgt Ion: 57 Resp: 2086
Ion Ratio Lower Upper
57 100
41 139.7 77.9 116.9#
43 122.0 208.4 312.6#
56 61.5 43.1 64.7



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. -0.006 min
Lab File: VL042387.D
Acq: 18 Apr 2025 12:41

Tgt Ion: 114 Resp: 411086
Ion Ratio Lower Upper
114 100
63 25.9 21.8 32.6
88 18.5 15.5 23.3

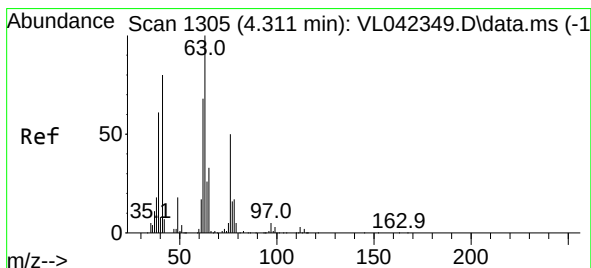
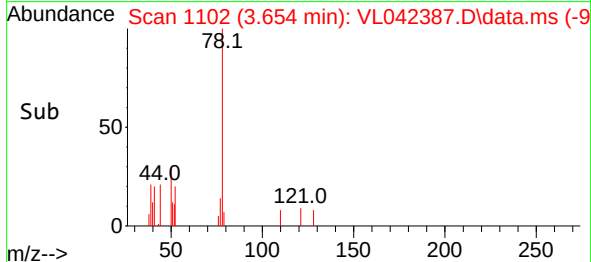
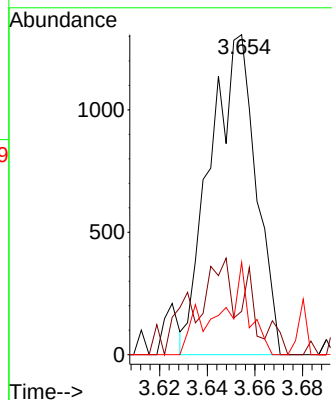
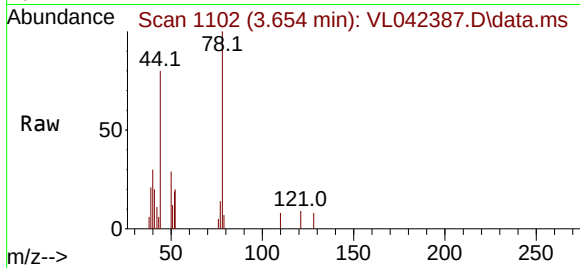




#36
Benzene
Concen: 0.039 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. 0.000 min
Lab File: VL042387.D
Acq: 18 Apr 2025 12:41

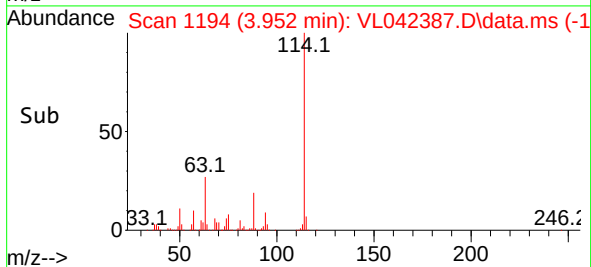
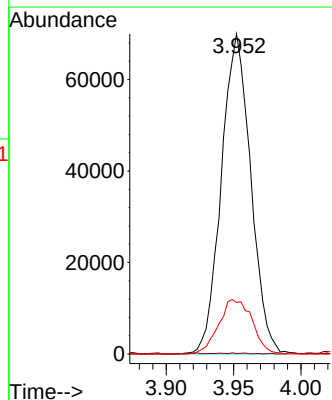
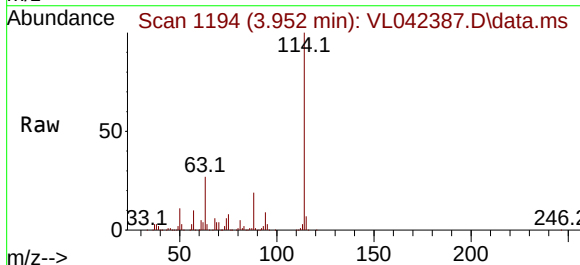
Instrument :
MSVOA_1
ClientSampleId :
IA-DUP-3-03312025DL2

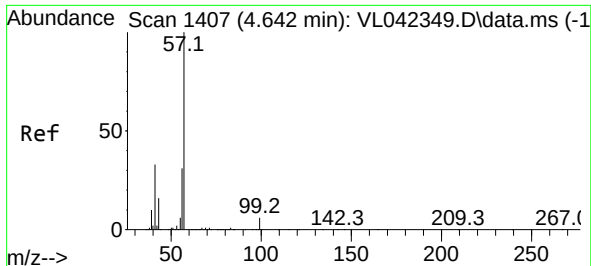
Tgt Ion: 78 Resp: 1745
Ion Ratio Lower Upper
78 100
77 6.6 17.4 26.0#
50 40.8 15.5 23.3#



#39
1,2-Dichloropropane
Concen: 6.416 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. -0.359 min
Lab File: VL042387.D
Acq: 18 Apr 2025 12:41

Tgt Ion: 63 Resp: 106017
Ion Ratio Lower Upper
63 100
41 0.2 64.2 96.2#
62 16.1 54.3 81.5#

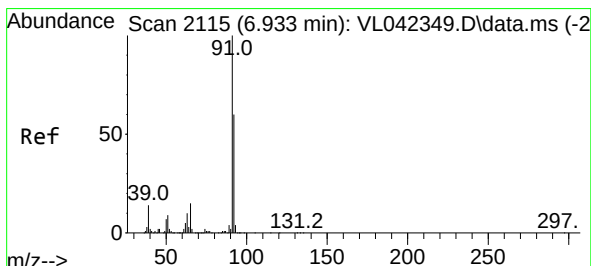
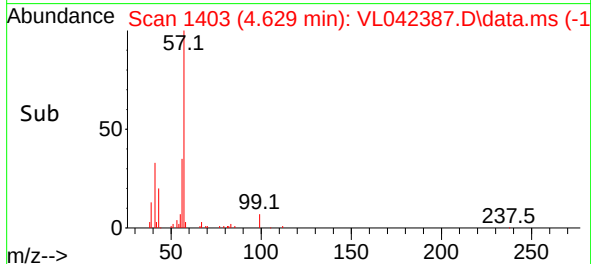
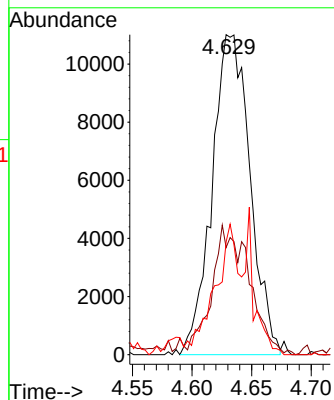
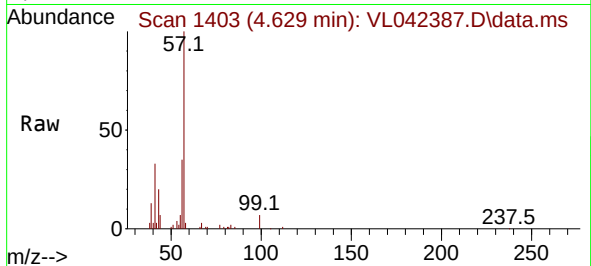




#44
 2,2,4-Trimethylpentane
 Concen: 0.319 ppbv
 RT: 4.629 min Scan# 1403
 Delta R.T. -0.013 min
 Lab File: VL042387.D
 Acq: 18 Apr 2025 12:41

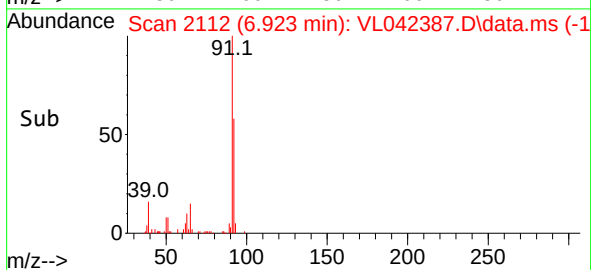
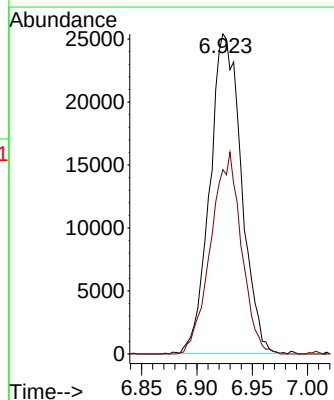
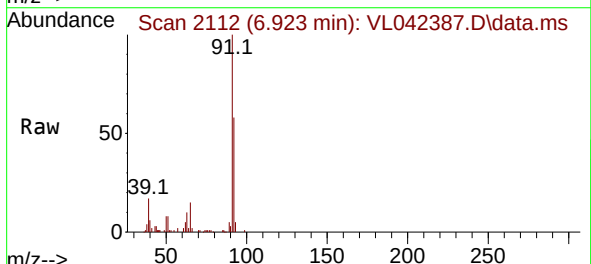
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-DUP-3-03312025DL2

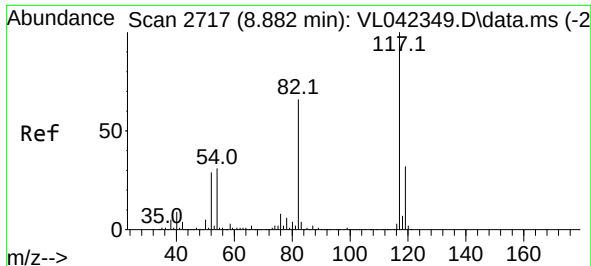
Tgt Ion: 57 Resp: 24464
 Ion Ratio Lower Upper
 57 100
 41 42.3 27.2 40.8#
 56 40.0 25.7 38.5#



#53
 Toluene
 Concen: 0.944 ppbv
 RT: 6.923 min Scan# 2112
 Delta R.T. -0.010 min
 Lab File: VL042387.D
 Acq: 18 Apr 2025 12:41

Tgt Ion: 91 Resp: 50250
 Ion Ratio Lower Upper
 91 100
 92 61.3 48.2 72.4

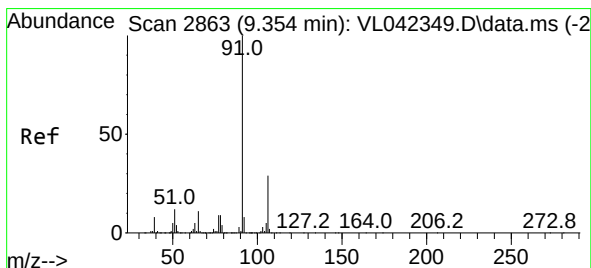
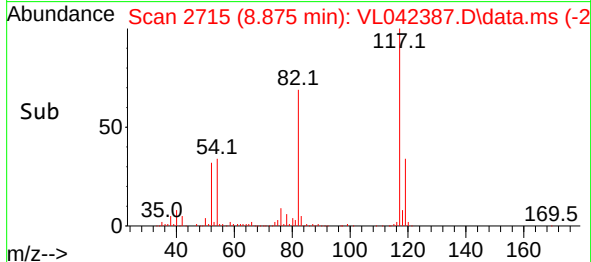
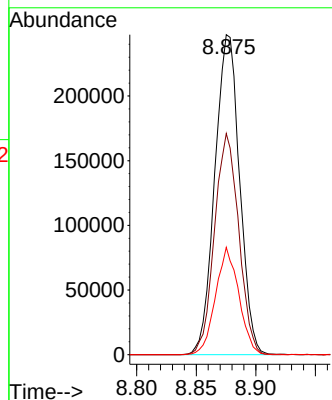
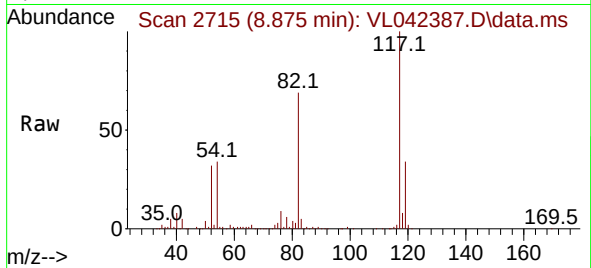




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 21
Delta R.T. -0.006 min
Lab File: VL042387.D
Acq: 18 Apr 2025 12:41

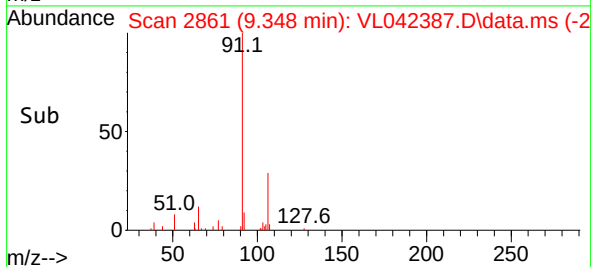
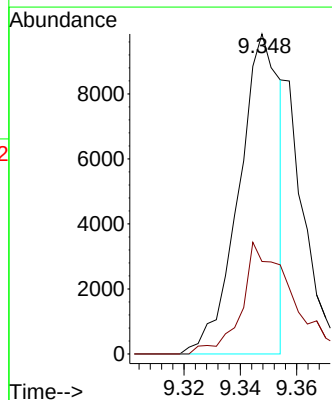
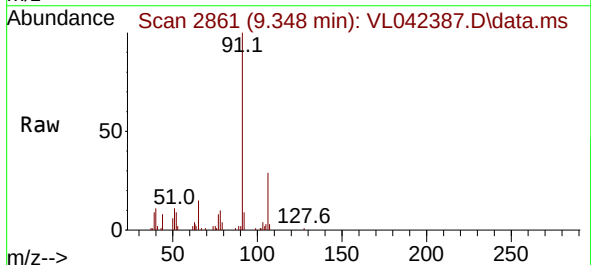
Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL2

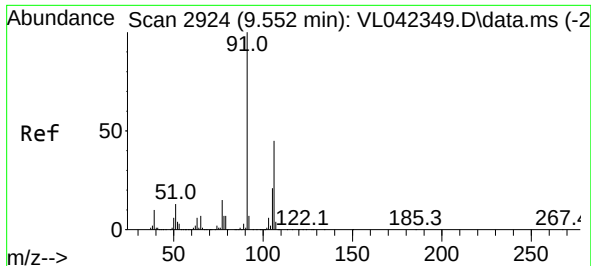
Tgt Ion:117 Resp: 357783
Ion Ratio Lower Upper
117 100
82 67.6 57.8 86.6
119 31.5 25.2 37.8



#58
Ethyl Benzene
Concen: 0.140 ppbv
RT: 9.348 min Scan# 2861
Delta R.T. -0.006 min
Lab File: VL042387.D
Acq: 18 Apr 2025 12:41

Tgt Ion: 91 Resp: 9917
Ion Ratio Lower Upper
91 100
106 28.9 23.0 34.4





#59

m/p-Xylene

Concen: 0.715 ppbv

RT: 9.526 min Scan# 2916

Delta R.T. -0.026 min

Lab File: VL042387.D

Acq: 18 Apr 2025 12:41

Instrument :

MSVOA_1

ClientSampleId :

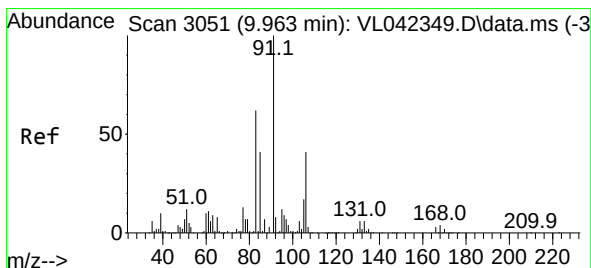
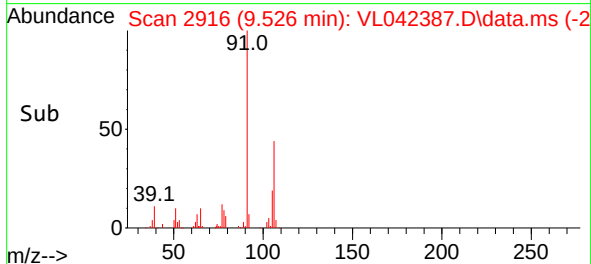
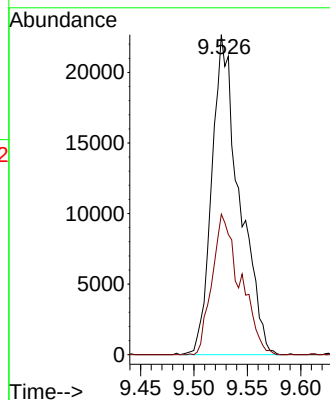
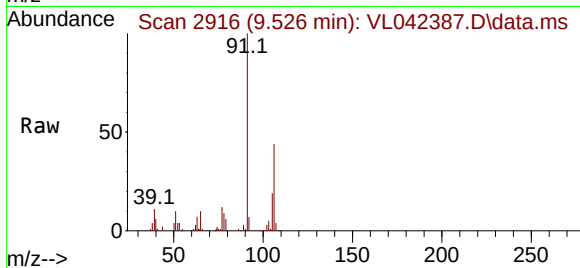
IA-DUP-3-03312025DL2

Tgt Ion: 91 Resp: 40839

Ion Ratio Lower Upper

91 100

106 44.7 35.4 53.2



#60

o-Xylene

Concen: 0.284 ppbv

RT: 9.959 min Scan# 3050

Delta R.T. -0.003 min

Lab File: VL042387.D

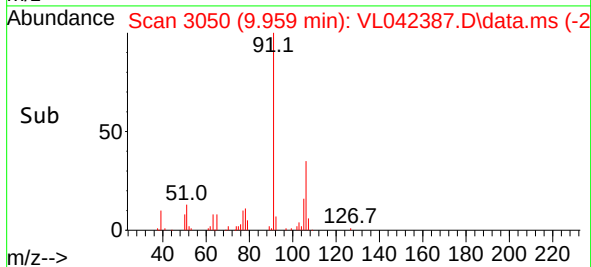
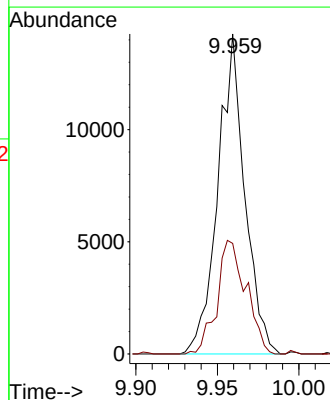
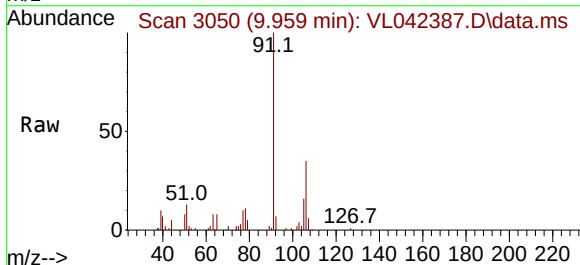
Acq: 18 Apr 2025 12:41

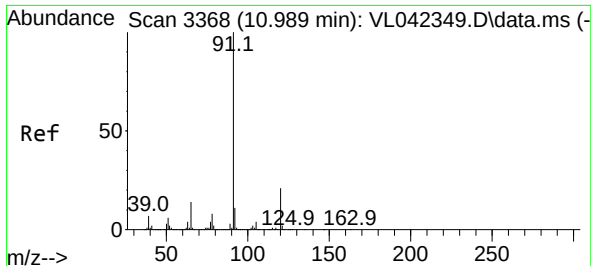
Tgt Ion: 91 Resp: 16348

Ion Ratio Lower Upper

91 100

106 38.7 21.1 63.4

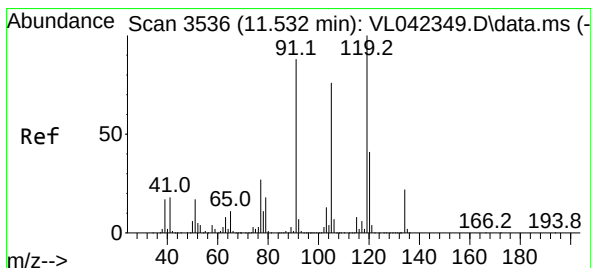
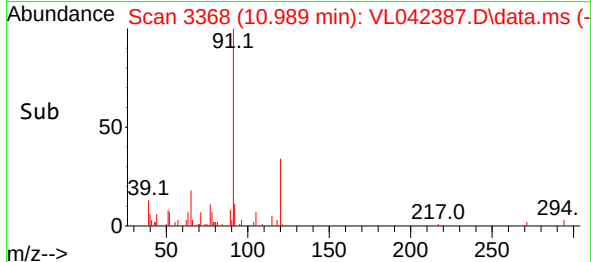
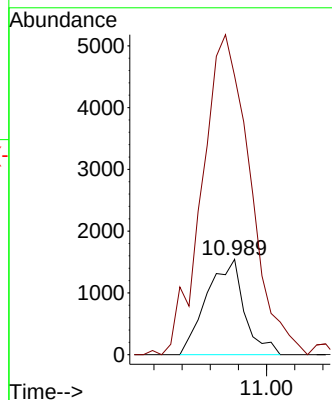
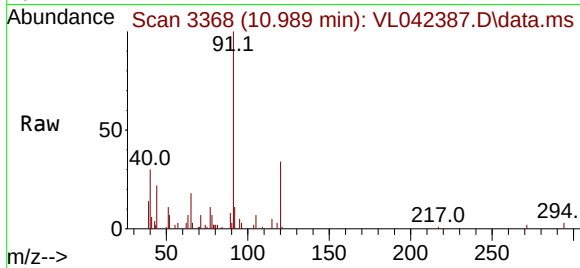




#64
n-propylbenzene
Concen: 0.067 ppbv
RT: 10.989 min Scan# 31
Delta R.T. 0.000 min
Lab File: VL042387.D
Acq: 18 Apr 2025 12:41

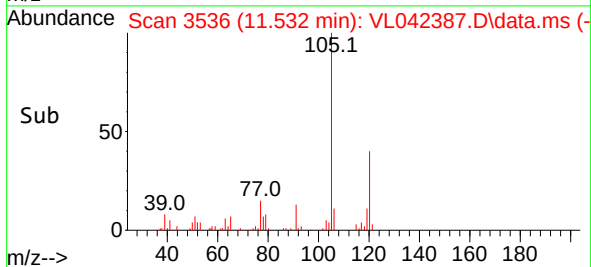
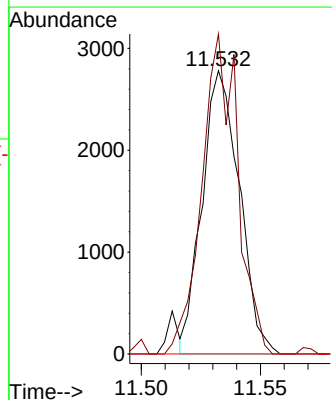
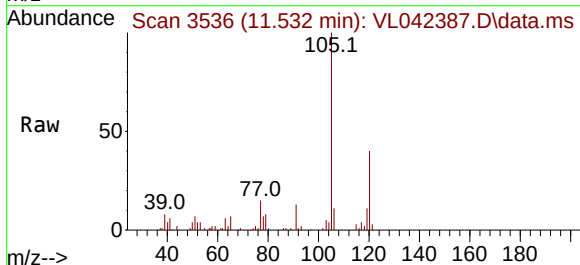
Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL2

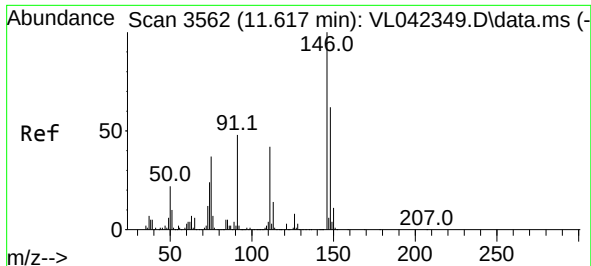
Tgt Ion:120 Resp: 1431
Ion Ratio Lower Upper
120 100
91 434.2 392.4 588.6



#65
tert-Butylbenzene
Concen: 0.039 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. 0.000 min
Lab File: VL042387.D
Acq: 18 Apr 2025 12:41

Tgt Ion:119 Resp: 3021
Ion Ratio Lower Upper
119 100
91 111.1 74.6 111.8
134 0.0 18.8 28.2#

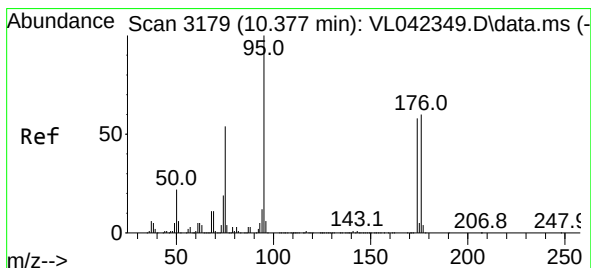
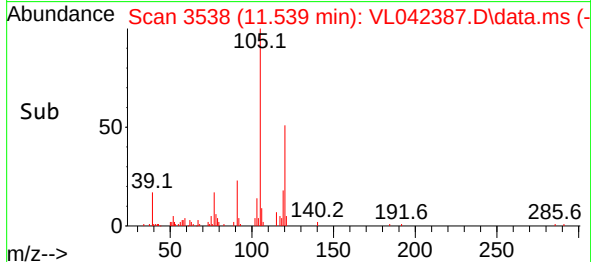
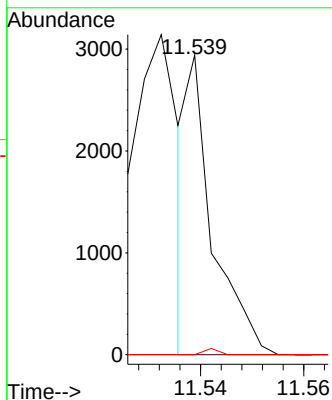
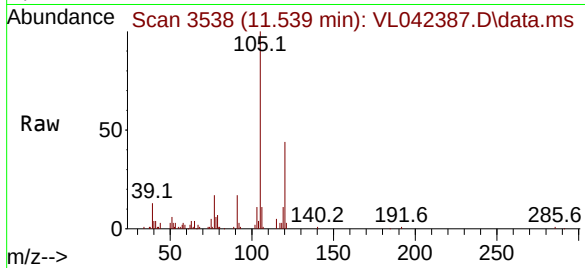




#66
Benzyl Chloride
Concen: 0.118 ppbv
RT: 11.539 min Scan# 3153
Delta R.T. -0.078 min
Lab File: VL042387.D
Acq: 18 Apr 2025 12:41

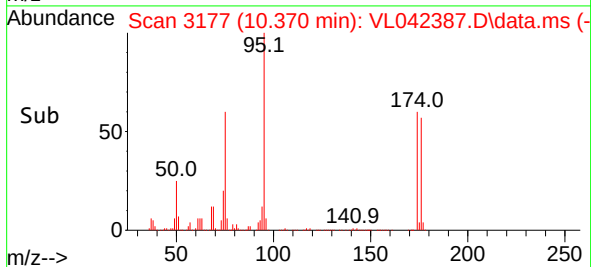
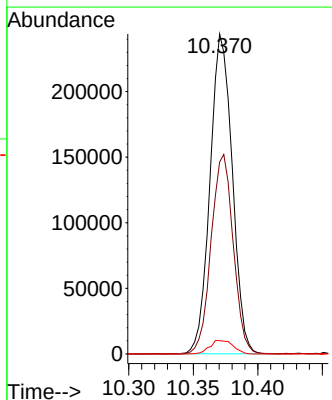
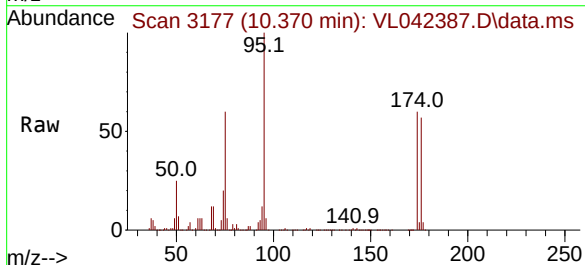
Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL2

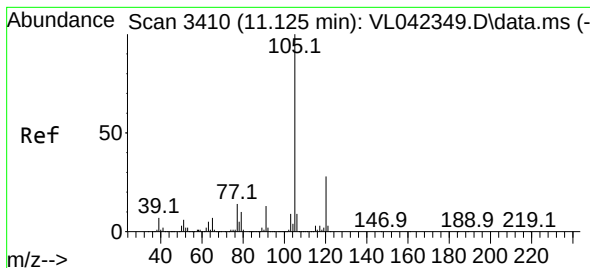
Tgt Ion: 91 Resp: 1010
Ion Ratio Lower Upper
91 100
126 0.0 11.8 17.6#
128 0.0 4.5 6.7#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.920 ppbv
RT: 10.370 min Scan# 3177
Delta R.T. -0.006 min
Lab File: VL042387.D
Acq: 18 Apr 2025 12:41

Tgt Ion: 95 Resp: 291643
Ion Ratio Lower Upper
95 100
174 62.1 48.5 72.7
175 4.5 3.7 5.5

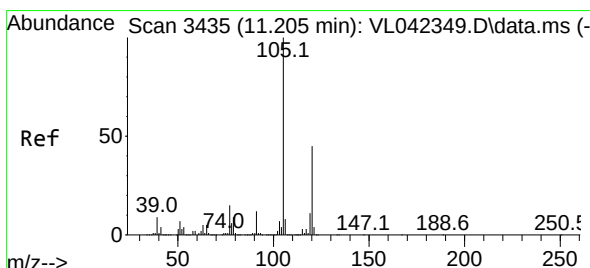
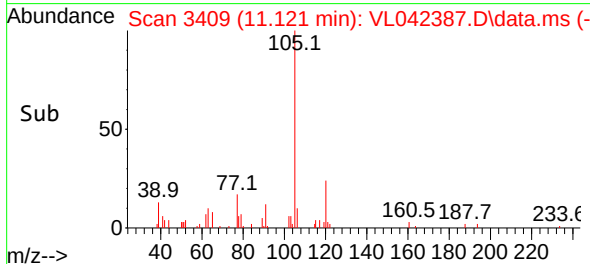
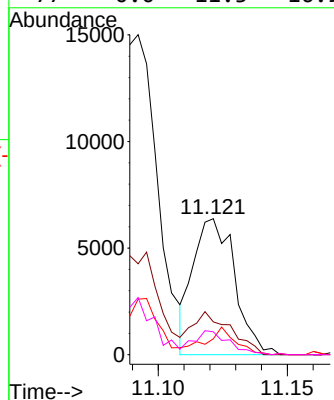
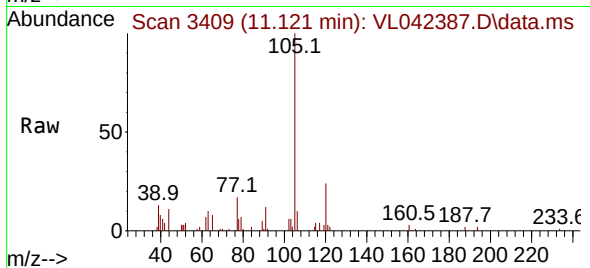




#72
4-Ethyltoluene
Concen: 0.102 ppbv
RT: 11.121 min Scan# 3410
Delta R.T. -0.003 min
Lab File: VL042387.D
Acq: 18 Apr 2025 12:41

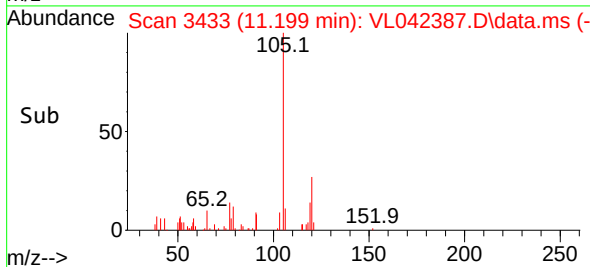
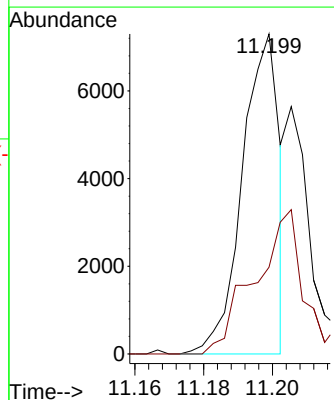
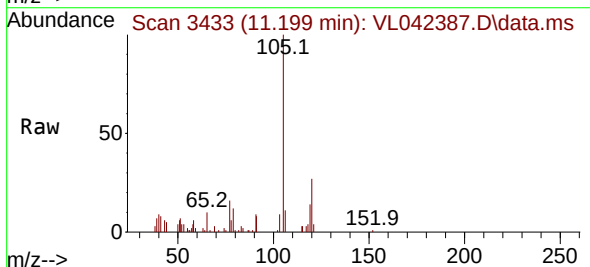
Instrument :
MSVOA_L
ClientSampleId :
IA-DUP-3-03312025DL2

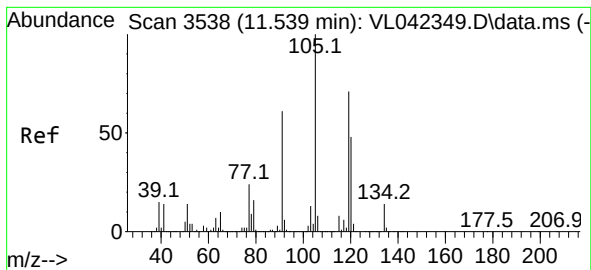
Tgt Ion:105	Resp:	7156
Ion Ratio	Lower	Upper
105	100	
120	0.0	23.2 34.8#
91	0.0	10.4 15.6#
77	0.0	11.3 16.9#



#73
1,3,5-Trimethylbenzene
Concen: 0.088 ppbv
RT: 11.199 min Scan# 3433
Delta R.T. -0.006 min
Lab File: VL042387.D
Acq: 18 Apr 2025 12:41

Tgt Ion:105	Resp:	5458
Ion Ratio	Lower	Upper
105	100	
120	27.1	35.6 53.4#





#74

1,2,4-Trimethylbenzene

Concen: 0.360 ppbv

RT: 11.532 min Scan# 3

Delta R.T. -0.006 min

Lab File: VL042387.D

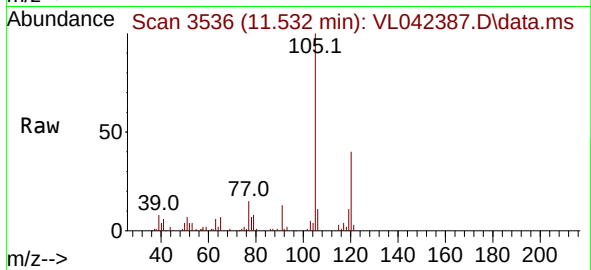
Acq: 18 Apr 2025 12:41

Instrument :

MSVOA_L

ClientSampleId :

IA-DUP-3-03312025DL2



Tgt Ion:105 Resp: 26096

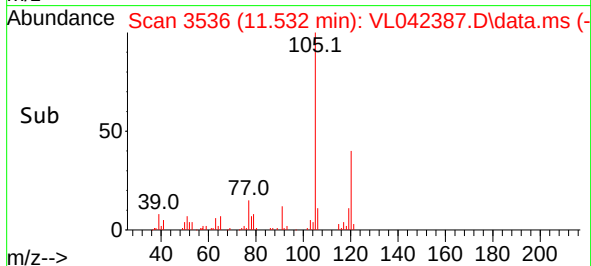
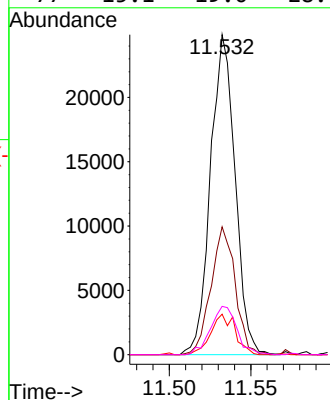
Ion Ratio Lower Upper

105 100

120 40.0 38.1 57.1

91 12.6 48.8 73.2#

77 15.1 19.0 28.4#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
 Data File : VL042388.D
 Acq On : 18 Apr 2025 13:12
 Operator : SY/MD
 Sample : Q1726-02DL2 40X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-6-03312025DL2

Quant Time: Apr 18 22:58:20 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)

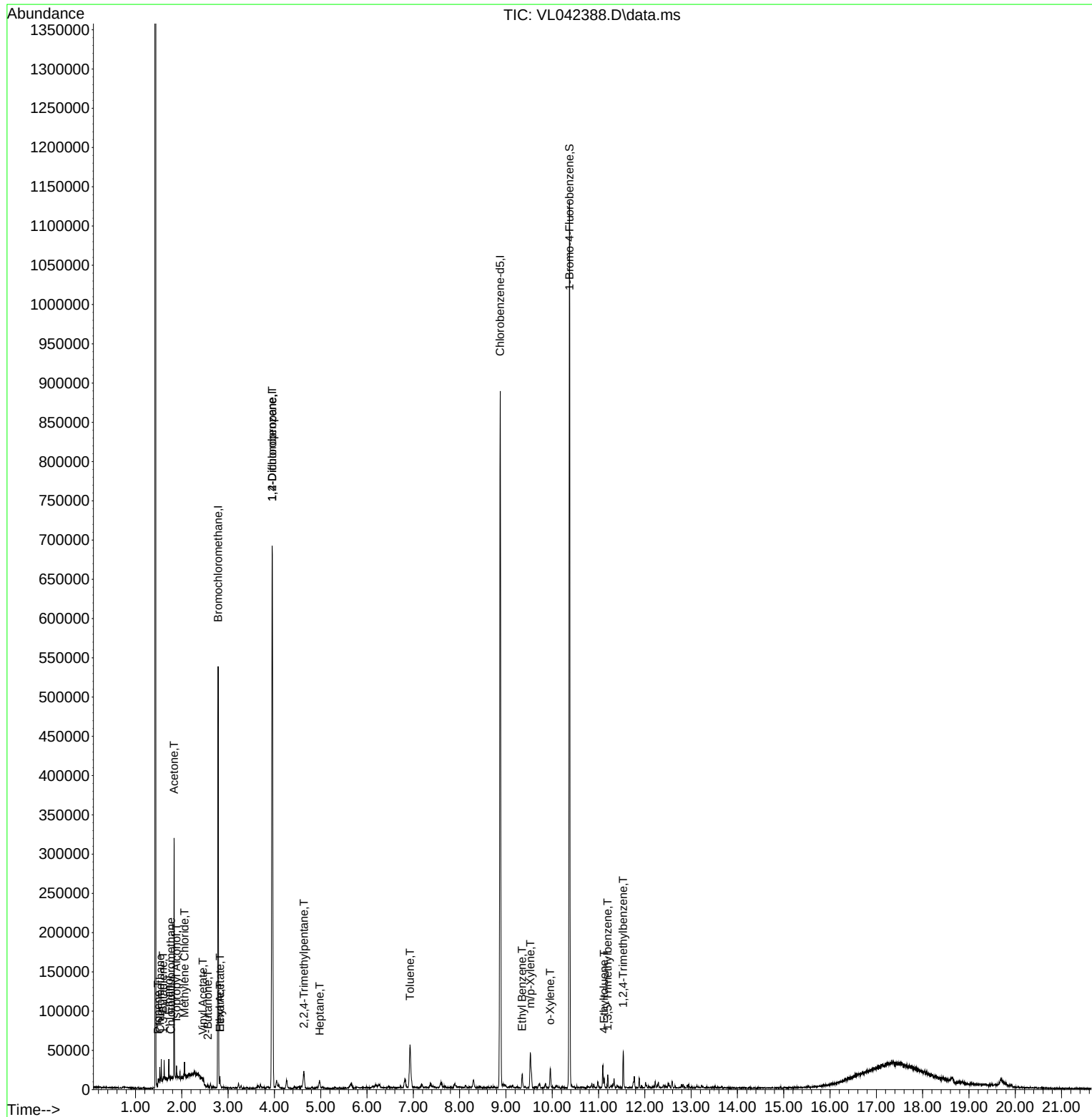
Internal Standards						
1) Bromochloromethane	2.784	49	132986	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	409322	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	354583	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	288297	9.894	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.900%
Target Compounds						
					Qvalue	
3) Chlorodifluoromethane	1.764	51	819	0.037	ppbv	99
4) Chloromethane	1.531	50	1157	0.124	ppbv #	76
9) Propene	1.489	41	1101	0.108	ppbv #	80
10) Heptane	4.975	43	1622	0.057	ppbv #	22
13) Ethanol	1.719	45	8476	5.234	ppbv	85
15) Acetone	1.832	43	132763	6.098	ppbv	98
16) 1,3-Butadiene	1.596	39	936	0.090	ppbv #	9
19) Isopropyl Alcohol	1.884	45	7402	0.612	ppbv #	1
20) Methylene Chloride	2.059	84	2832	0.332	ppbv	88
23) Vinyl Acetate	2.454	43	996	0.113	ppbv #	78
25) Ethyl Acetate	2.823	43	2191	0.041	ppbv #	82
26) Hexane	2.823	57	3262	0.150	ppbv #	37
34) 2-Butanone	2.560	43	1698	0.052	ppbv #	80
39) 1,2-Dichloropropane	3.952	63	105929	6.439	ppbv #	23
44) 2,2,4-Trimethylpentane	4.638	57	16039	0.210	ppbv #	83
53) Toluene	6.930	91	36363	0.686	ppbv	100
58) Ethyl Benzene	9.348	91	6095	0.087	ppbv #	88
59) m/p-Xylene	9.526	91	27952	0.494	ppbv	96
60) o-Xylene	9.956	91	9433	0.166	ppbv	80
72) 4-Ethyltoluene	11.121	105	5468	0.078	ppbv #	80
73) 1,3,5-Trimethylbenzene	11.199	105	5228	0.085	ppbv #	86
74) 1,2,4-Trimethylbenzene	11.532	105	17448	0.243	ppbv #	63

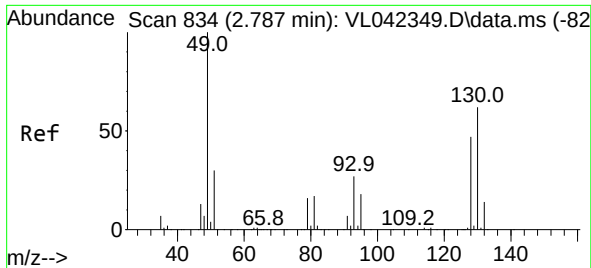
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
Data File : VL042388.D
Acq On : 18 Apr 2025 13:12
Operator : SY/MD
Sample : Q1726-02DL2 40X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL2

Quant Time: Apr 18 22:58:20 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

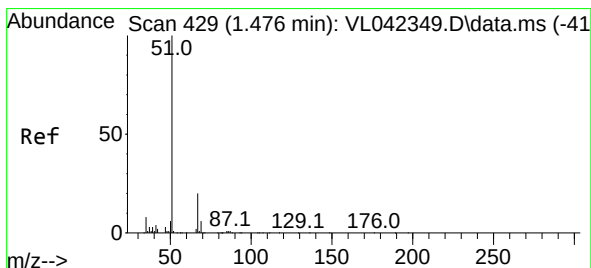
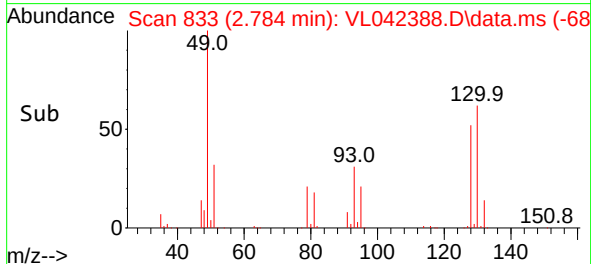
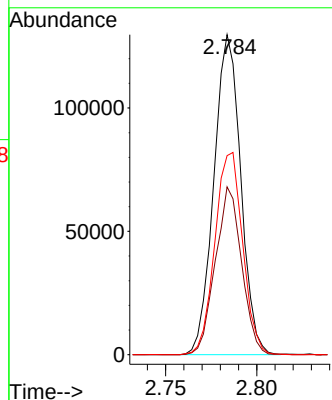
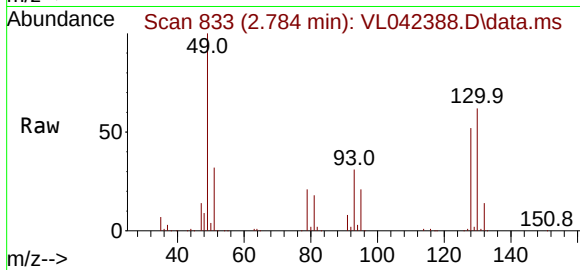




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

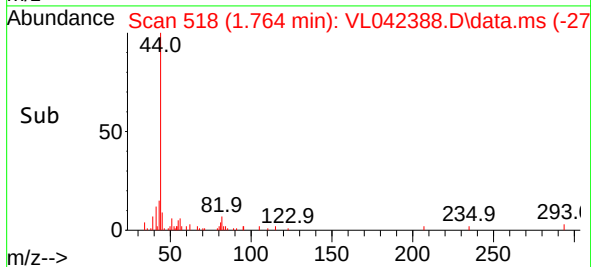
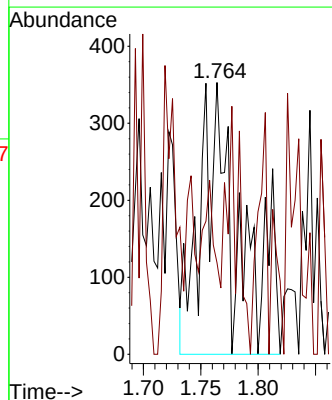
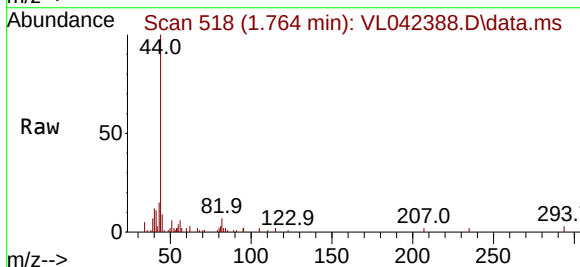
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL2

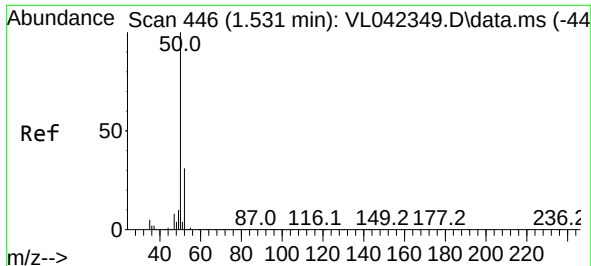
Tgt Ion: 49 Resp: 132986
Ion Ratio Lower Upper
49 100
128 51.2 22.8 68.4
130 65.3 29.3 88.0



#3
Chlorodifluoromethane
Concen: 0.037 ppbv
RT: 1.764 min Scan# 518
Delta R.T. 0.288 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

Tgt Ion: 51 Resp: 819
Ion Ratio Lower Upper
51 100
67 19.7 16.2 24.4

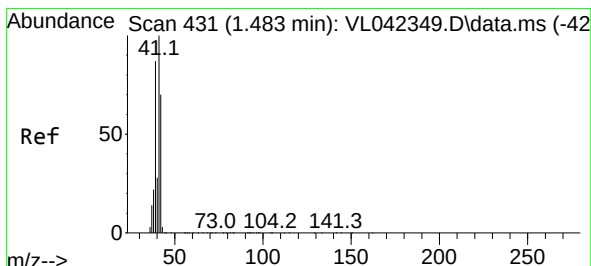
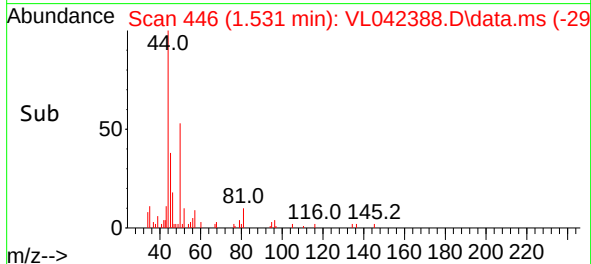
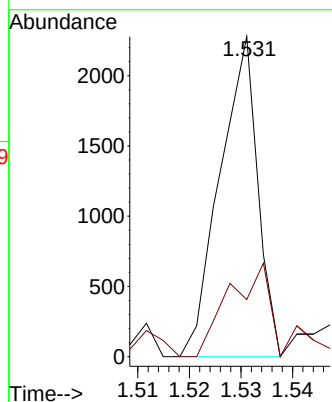
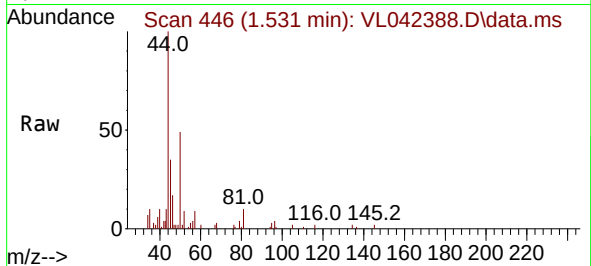




#4
Chloromethane
Concen: 0.124 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

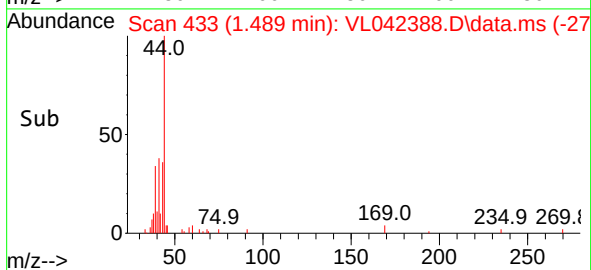
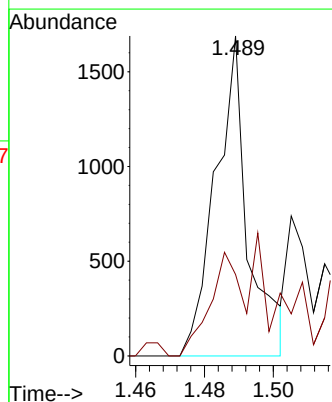
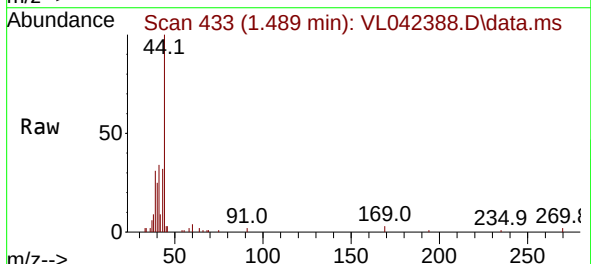
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL2

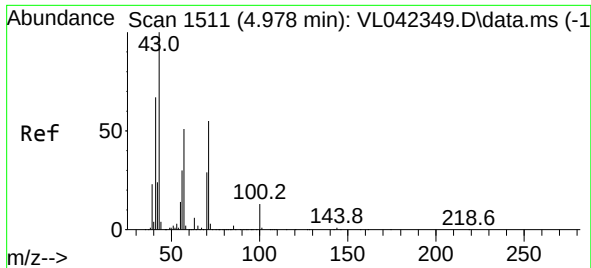
Tgt Ion: 50 Resp: 1157
Ion Ratio Lower Upper
50 100
52 17.9 24.7 37.1#



#9
Propene
Concen: 0.108 ppbv
RT: 1.489 min Scan# 433
Delta R.T. 0.006 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

Tgt Ion: 41 Resp: 1101
Ion Ratio Lower Upper
41 100
42 86.9 56.2 84.4#

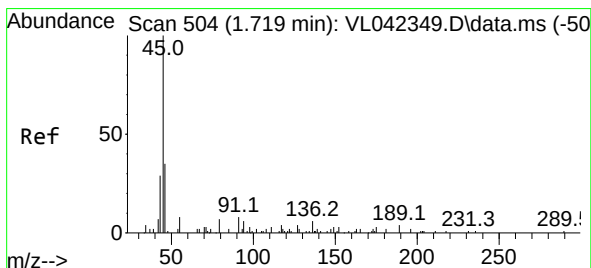
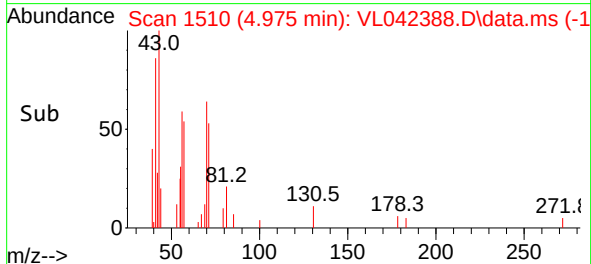
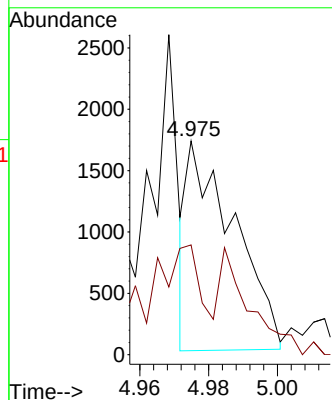
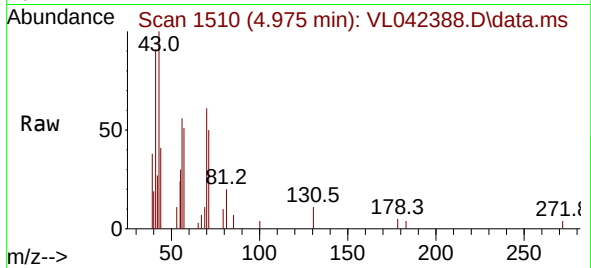




#10
Heptane
Concen: 0.057 ppbv
RT: 4.975 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

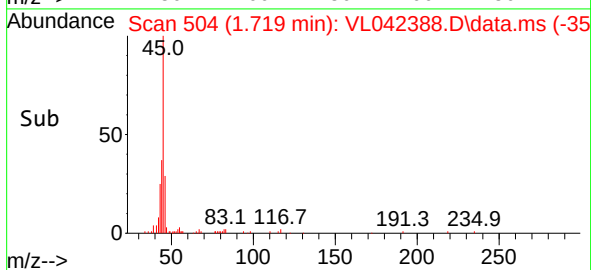
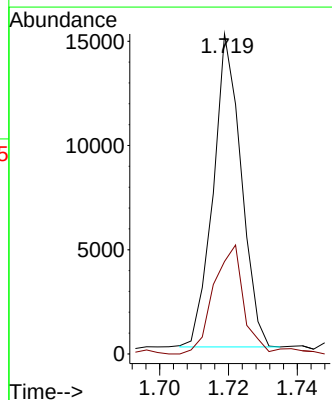
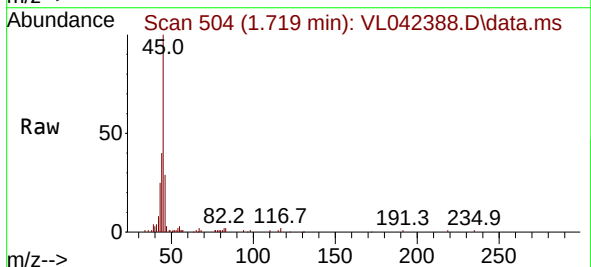
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL2

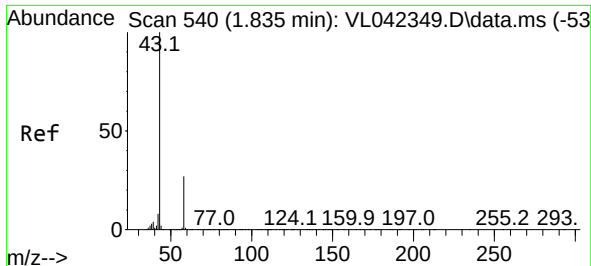
Tgt Ion: 43 Resp: 1622
Ion Ratio Lower Upper
43 100
57 103.4 39.9 59.9#



#13
Ethanol
Concen: 5.234 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.000 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

Tgt Ion: 45 Resp: 8476
Ion Ratio Lower Upper
45 100
46 44.0 21.9 87.7

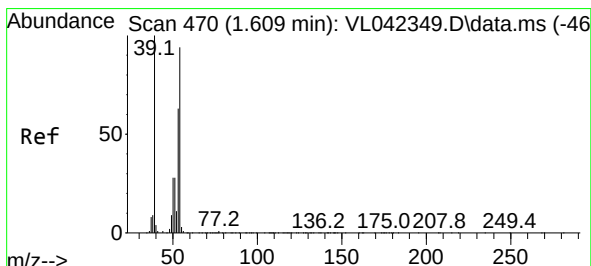
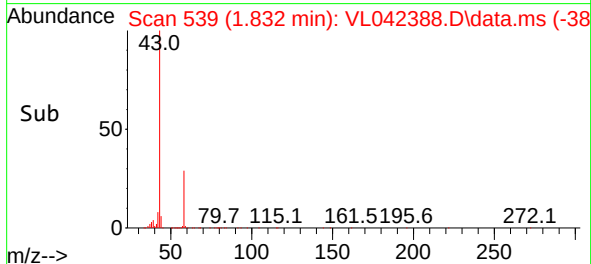
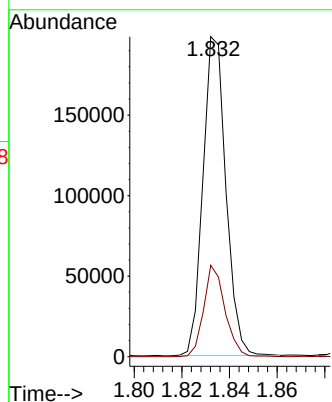
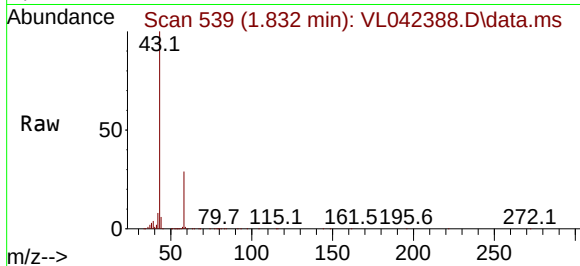




#15
Acetone
Concen: 6.098 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.003 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

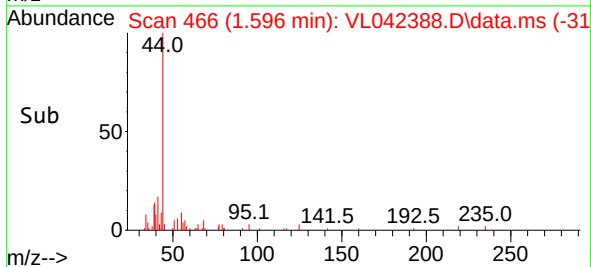
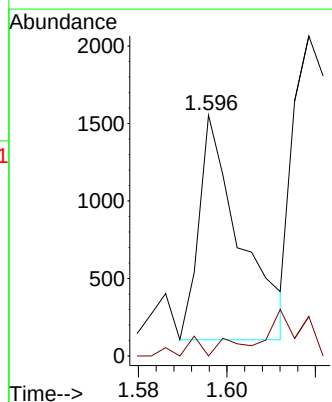
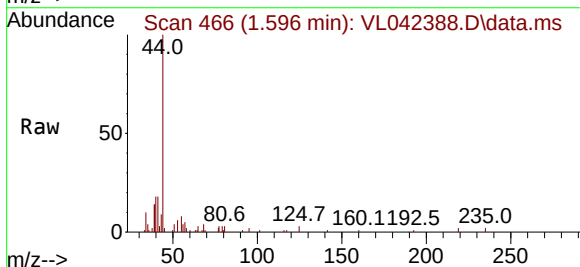
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL2

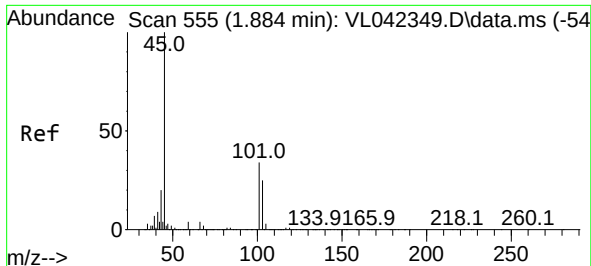
Tgt Ion: 43 Resp: 132763
Ion Ratio Lower Upper
43 100
58 26.9 22.4 33.6



#16
1,3-Butadiene
Concen: 0.090 ppbv
RT: 1.596 min Scan# 466
Delta R.T. -0.013 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

Tgt Ion: 39 Resp: 936
Ion Ratio Lower Upper
39 100
54 0.0 64.9 97.3#

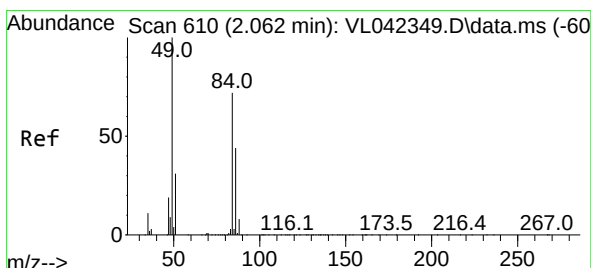
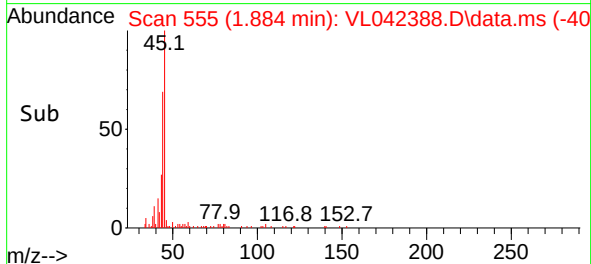
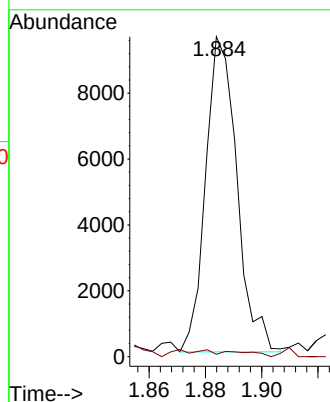
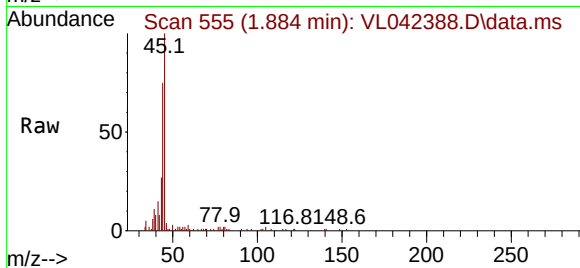




#19
Isopropyl Alcohol
Concen: 0.612 ppbv
RT: 1.884 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

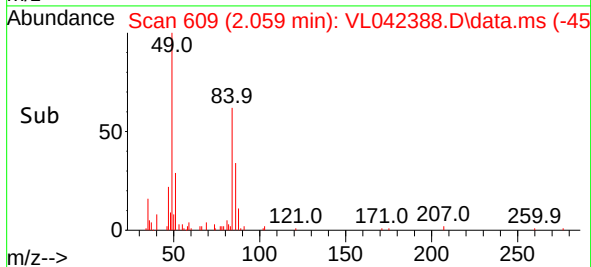
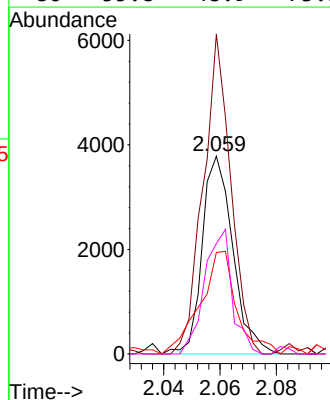
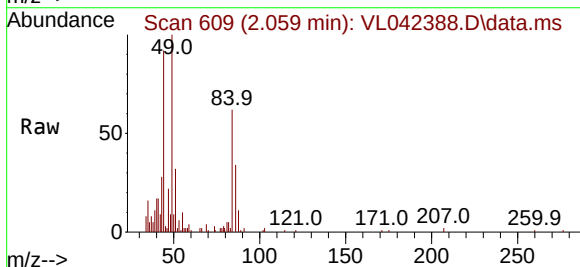
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL2

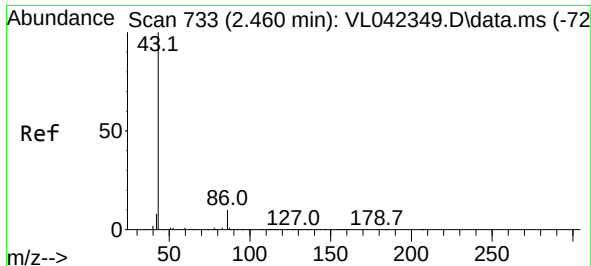
Tgt Ion: 45 Resp: 7402
Ion Ratio Lower Upper
45 100
58 482.1 34.5 51.7#



#20
Methylene Chloride
Concen: 0.332 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.003 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

Tgt Ion: 84 Resp: 2832
Ion Ratio Lower Upper
84 100
49 159.8 111.6 167.4
51 47.1 35.1 52.7
86 55.8 48.9 73.3



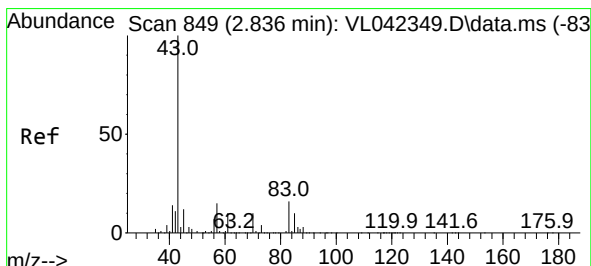
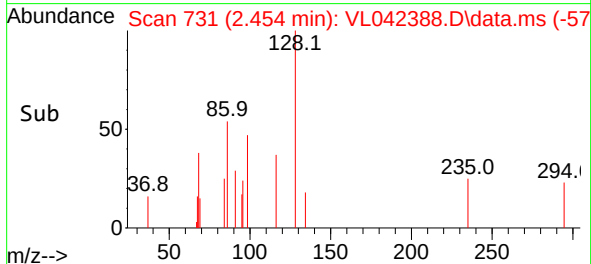
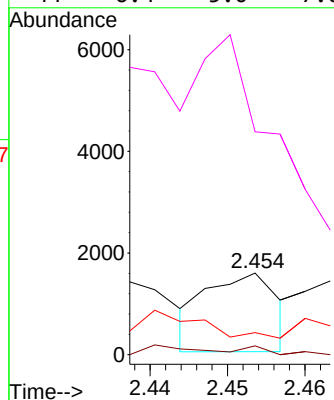
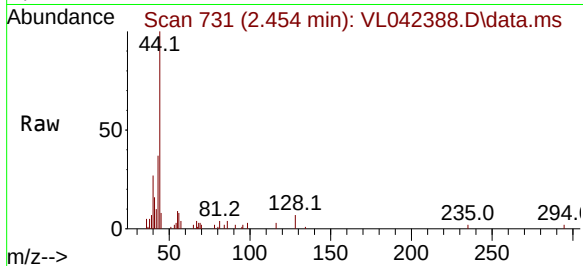


#23
 Vinyl Acetate
 Concen: 0.113 ppbv
 RT: 2.454 min Scan# 71
 Delta R.T. -0.006 min
 Lab File: VL042388.D
 Acq: 18 Apr 2025 13:12

Instrument :
 MSVOA_1
 ClientSampleId :
 IA-B2-6-03312025DL2

Tgt Ion: 43 Resp: 996

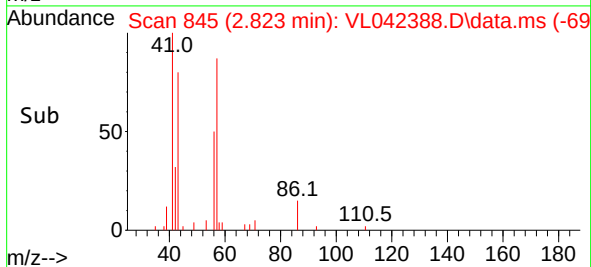
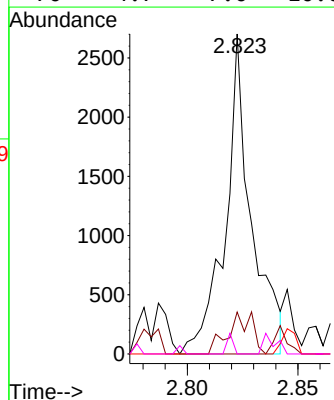
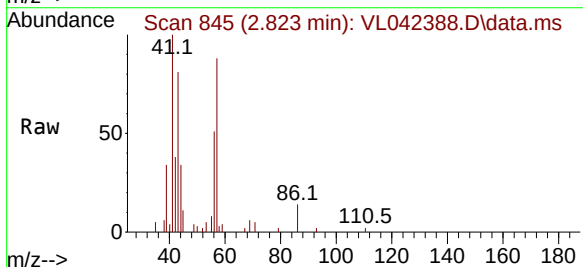
Ion	Ratio	Lower	Upper
43	100		
86	24.6	6.5	9.7#
42	15.9	7.8	11.8#
44	6.4	5.0	7.6

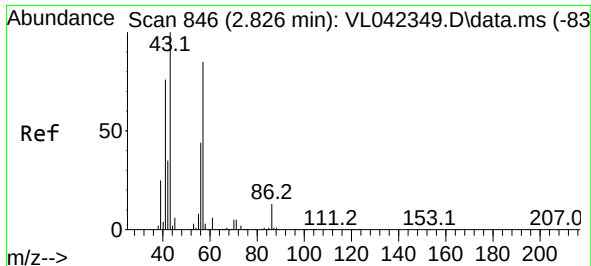


#25
 Ethyl Acetate
 Concen: 0.041 ppbv
 RT: 2.823 min Scan# 845
 Delta R.T. -0.013 min
 Lab File: VL042388.D
 Acq: 18 Apr 2025 13:12

Tgt Ion: 43 Resp: 2191

Ion	Ratio	Lower	Upper
43	100		
45	16.5	8.3	12.5#
61	0.0	7.3	10.9#
70	4.7	7.0	10.6#

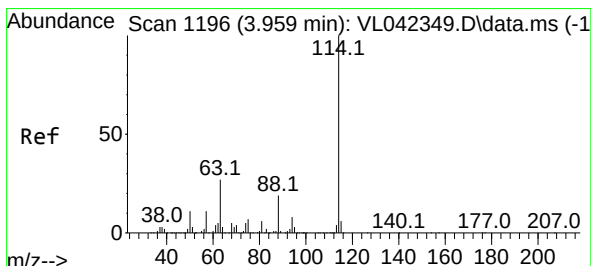
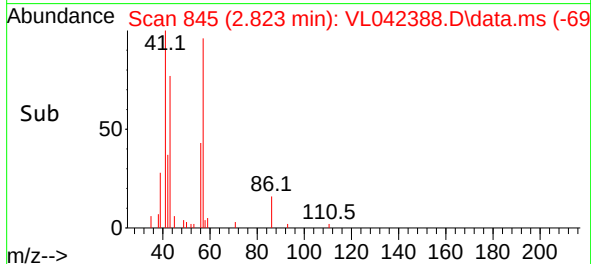
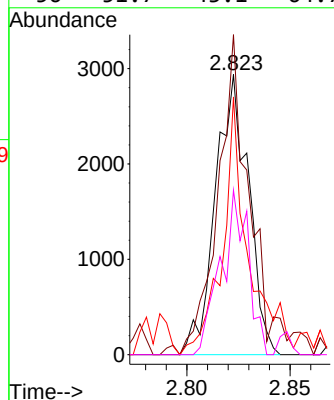
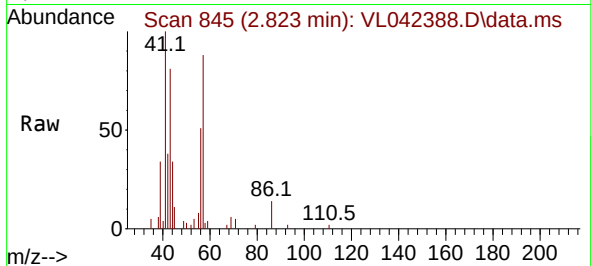




#26
Hexane
Concen: 0.150 ppbv
RT: 2.823 min Scan# 846
Delta R.T. -0.003 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

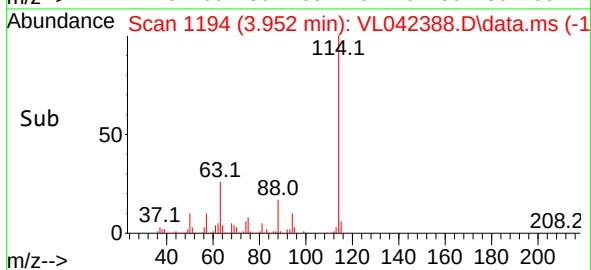
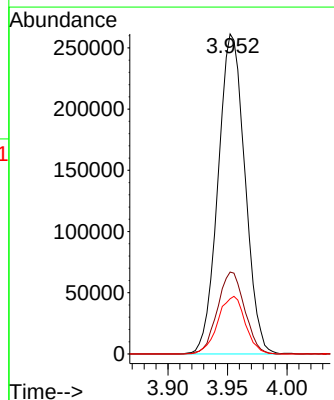
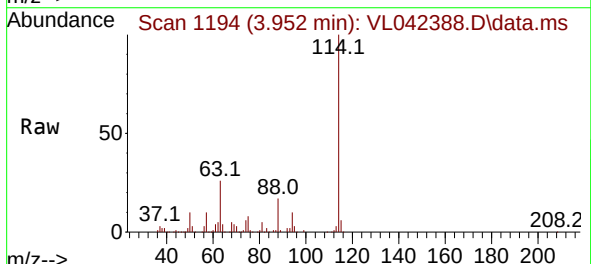
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL2

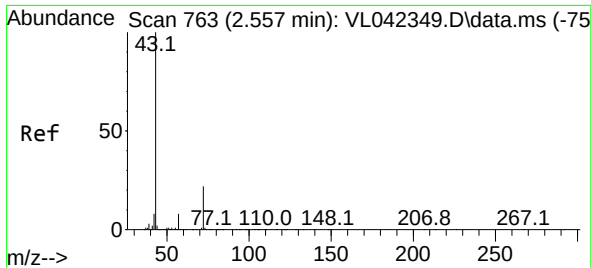
Tgt Ion: 57	Resp: 3262
Ion Ratio	Lower Upper
57	100
41	117.7 77.9 116.9#
43	95.9 208.4 312.6#
56	51.7 43.1 64.7



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. -0.006 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

Tgt Ion: 114	Resp: 409322
Ion Ratio	Lower Upper
114	100
63	25.9 21.8 32.6
88	18.4 15.5 23.3

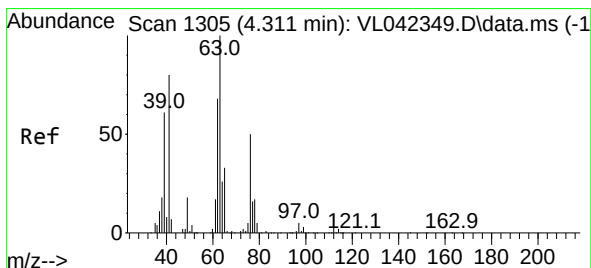
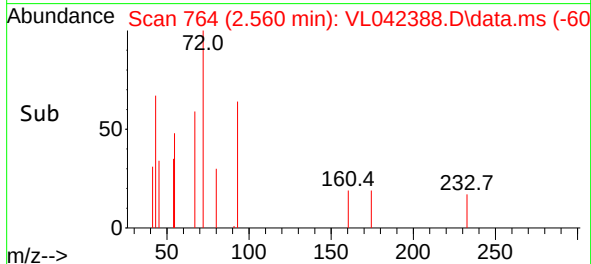
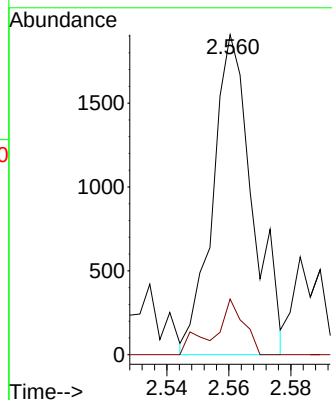
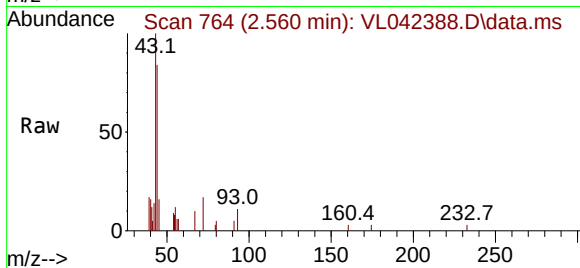




#34
2-Butanone
Concen: 0.052 ppbv
RT: 2.560 min Scan# 71
Delta R.T. 0.003 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

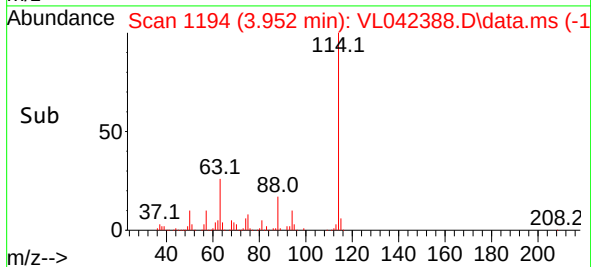
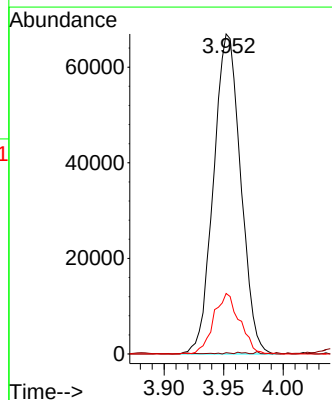
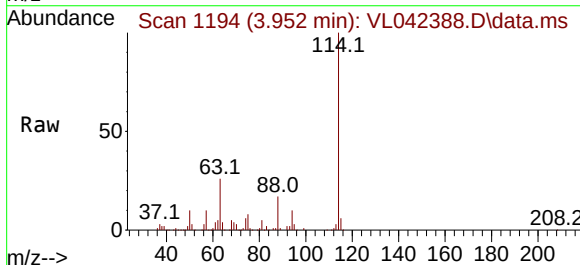
Instrument :
MSVOA_1
ClientSampleId :
IA-B2-6-03312025DL2

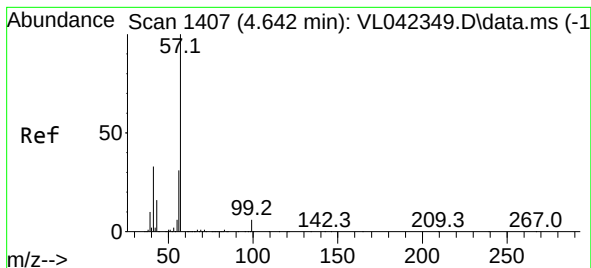
Tgt Ion: 43 Resp: 1698
Ion Ratio Lower Upper
43 100
72 13.2 18.2 27.2#



#39
1,2-Dichloropropane
Concen: 6.439 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. -0.359 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

Tgt Ion: 63 Resp: 105929
Ion Ratio Lower Upper
63 100
41 0.2 64.2 96.2#
62 18.9 54.3 81.5#





#44

2,2,4-Trimethylpentane

Concen: 0.210 ppbv

RT: 4.638 min Scan# 1406

Delta R.T. -0.003 min

Lab File: VL042388.D

Acq: 18 Apr 2025 13:12

Instrument :

MSVOA_L

ClientSampleId :

IA-B2-6-03312025DL2

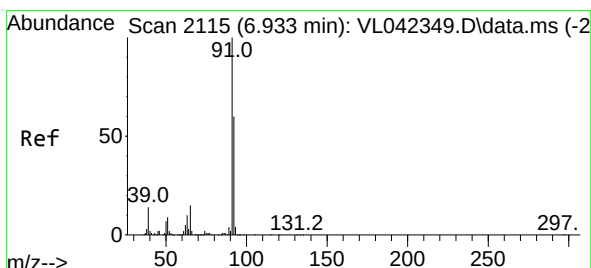
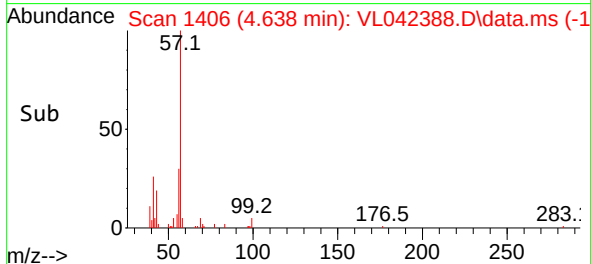
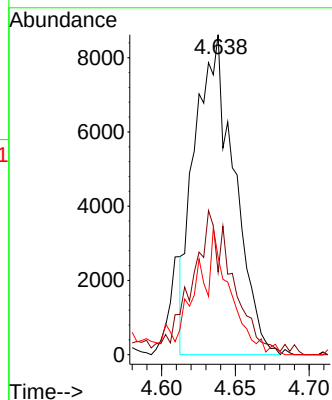
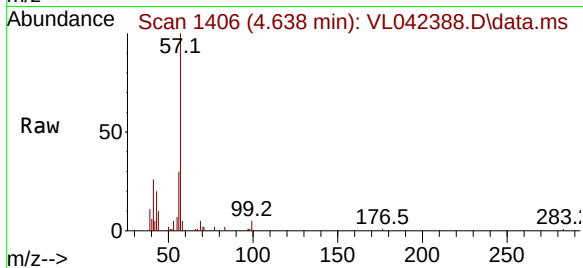
Tgt Ion: 57 Resp: 16039

Ion Ratio Lower Upper

57 100

41 50.5 27.2 40.8#

56 35.1 25.7 38.5



#53

Toluene

Concen: 0.686 ppbv

RT: 6.930 min Scan# 2114

Delta R.T. -0.003 min

Lab File: VL042388.D

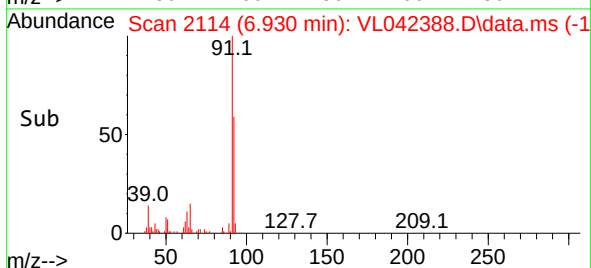
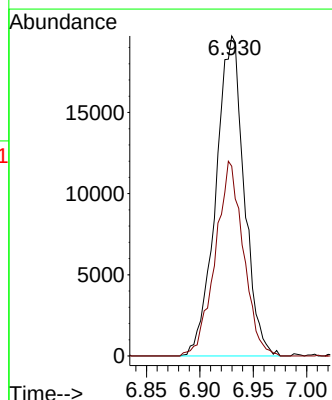
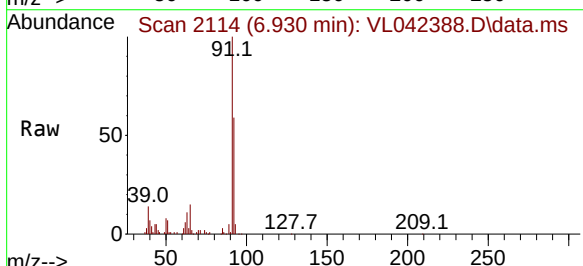
Acq: 18 Apr 2025 13:12

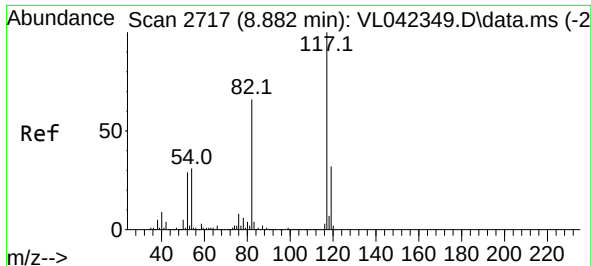
Tgt Ion: 91 Resp: 36363

Ion Ratio Lower Upper

91 100

92 60.4 48.2 72.4

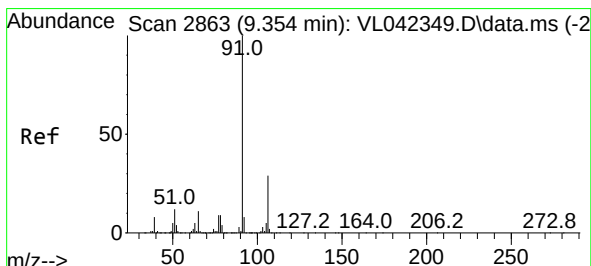
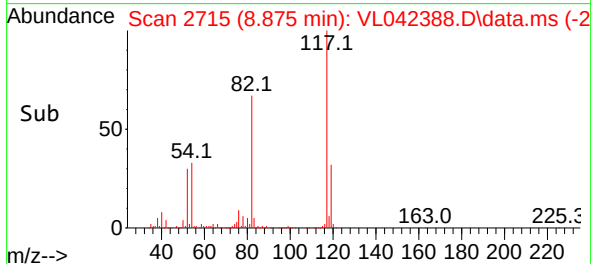
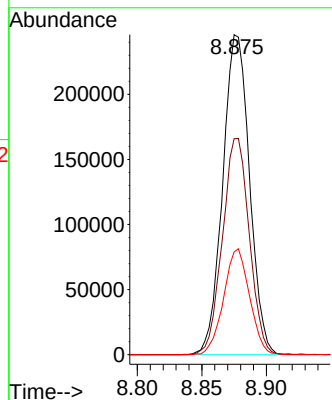
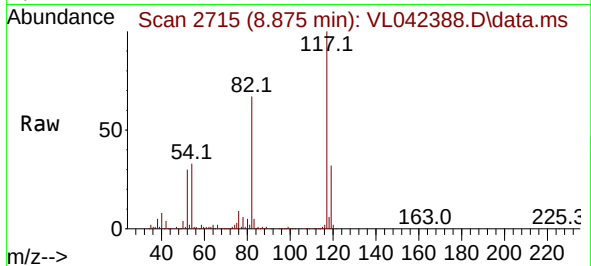




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 21
Delta R.T. -0.007 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

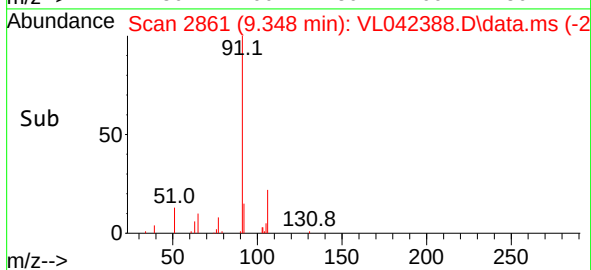
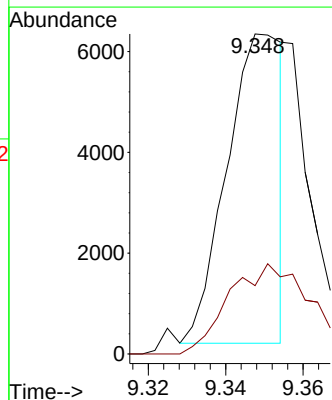
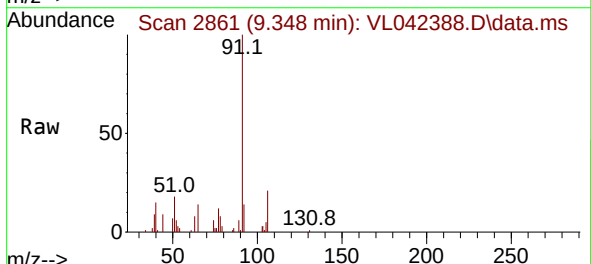
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL2

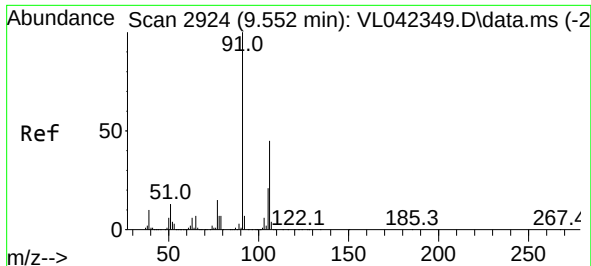
Tgt Ion:117 Resp: 354583
Ion Ratio Lower Upper
117 100
82 67.7 57.8 86.6
119 32.1 25.2 37.8



#58
Ethyl Benzene
Concen: 0.087 ppbv
RT: 9.348 min Scan# 2861
Delta R.T. -0.007 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

Tgt Ion: 91 Resp: 6095
Ion Ratio Lower Upper
91 100
106 22.1 23.0 34.4#

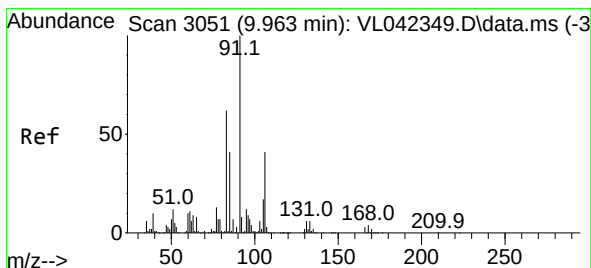
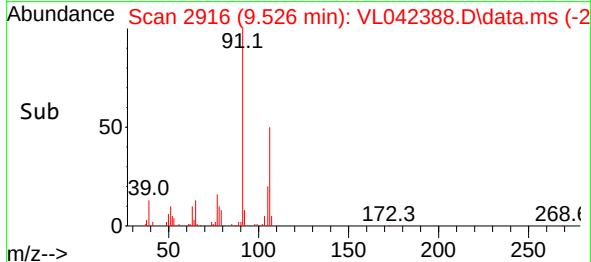
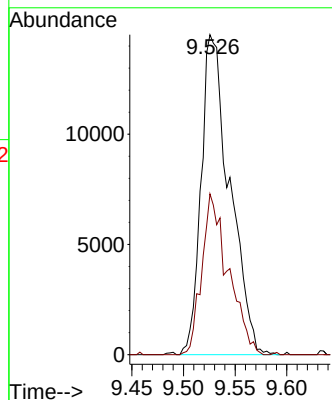
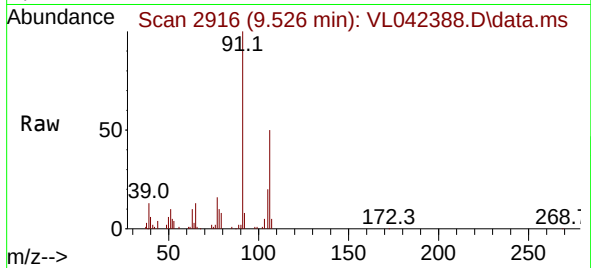




#59
m/p-Xylene
Concen: 0.494 ppbv
RT: 9.526 min Scan# 2916
Delta R.T. -0.026 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

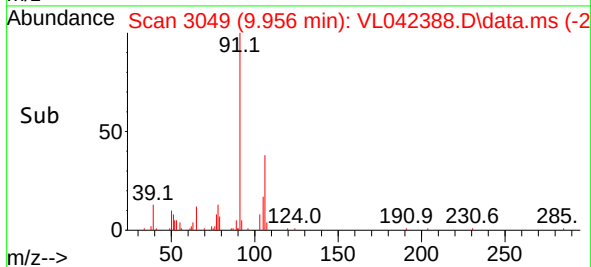
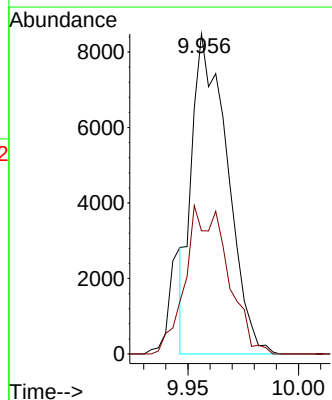
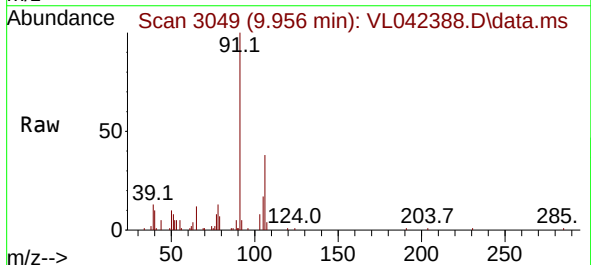
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL2

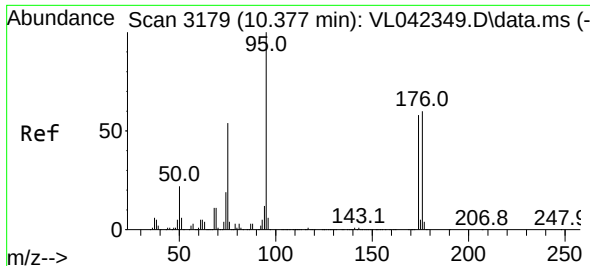
Tgt Ion: 91 Resp: 27952
Ion Ratio Lower Upper
91 100
106 46.6 35.4 53.2



#60
o-Xylene
Concen: 0.166 ppbv
RT: 9.956 min Scan# 3049
Delta R.T. -0.006 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

Tgt Ion: 91 Resp: 9433
Ion Ratio Lower Upper
91 100
106 55.1 21.1 63.4

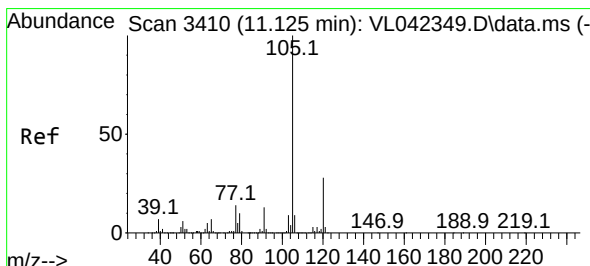
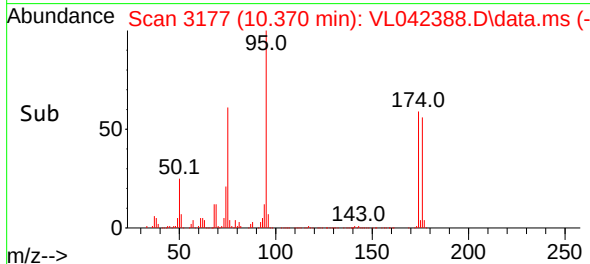
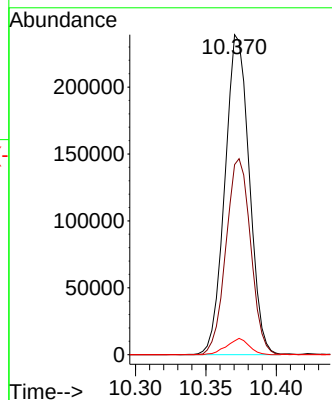
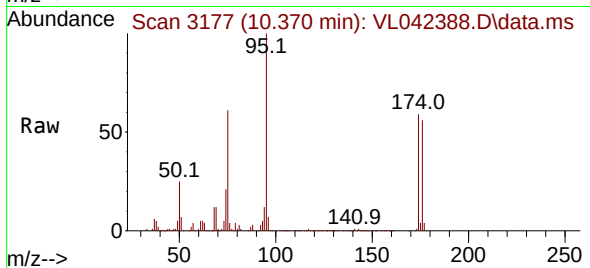




#68
1-Bromo-4-Fluorobenzene
Concen: 9.894 ppbv
RT: 10.370 min Scan# 3179
Delta R.T. -0.006 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

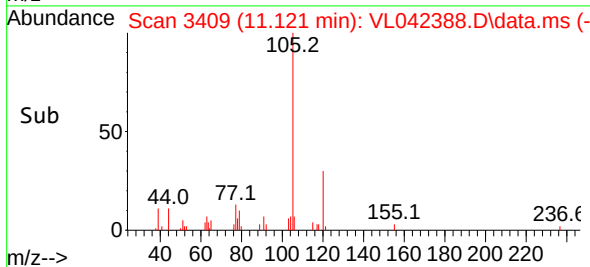
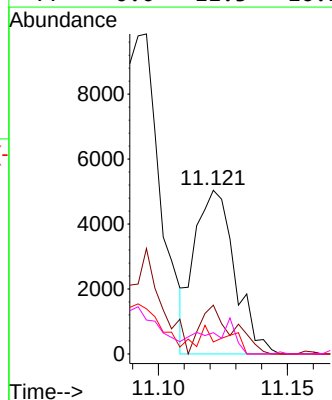
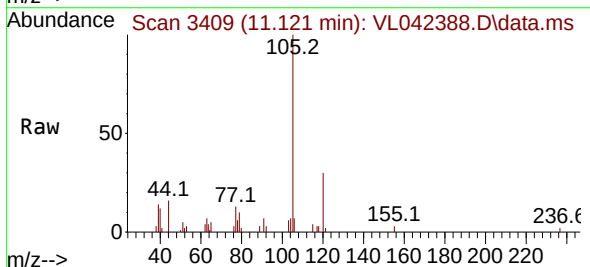
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-6-03312025DL2

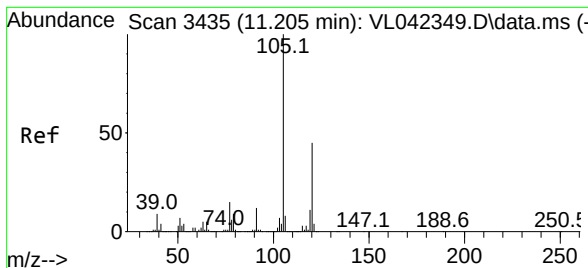
Tgt Ion: 95 Resp: 288297
Ion Ratio Lower Upper
95 100
174 62.2 48.5 72.7
175 4.7 3.7 5.5



#72
4-Ethyltoluene
Concen: 0.078 ppbv
RT: 11.121 min Scan# 3409
Delta R.T. -0.003 min
Lab File: VL042388.D
Acq: 18 Apr 2025 13:12

Tgt Ion: 105 Resp: 5468
Ion Ratio Lower Upper
105 100
120 24.8 23.2 34.8
91 0.0 10.4 15.6#
77 0.0 11.3 16.9#





#73

1,3,5-Trimethylbenzene

Concen: 0.085 ppbv

RT: 11.199 min Scan# 3435

Delta R.T. -0.007 min

Lab File: VL042388.D

Acq: 18 Apr 2025 13:12

Instrument :

MSVOA_L

ClientSampleId :

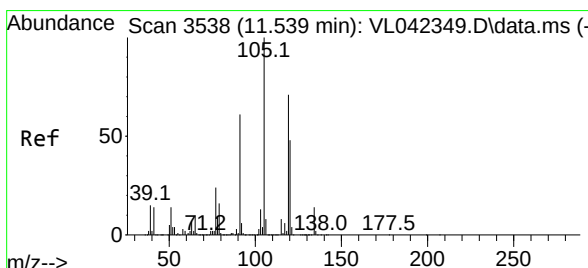
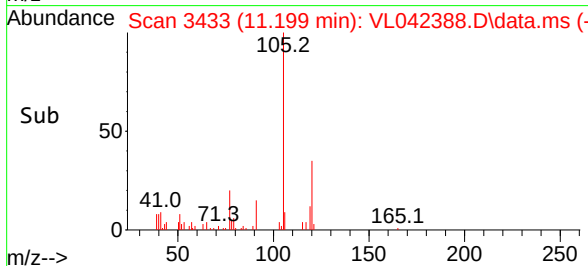
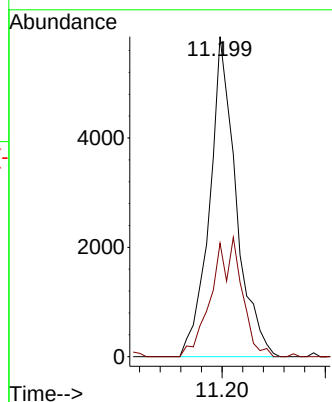
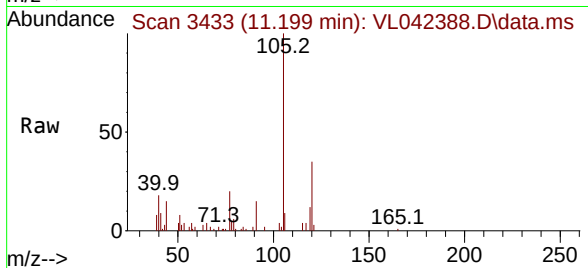
IA-B2-6-03312025DL2

Tgt Ion:105 Resp: 5228

Ion Ratio Lower Upper

105 100

120 35.4 35.6 53.4#



#74

1,2,4-Trimethylbenzene

Concen: 0.243 ppbv

RT: 11.532 min Scan# 3536

Delta R.T. -0.007 min

Lab File: VL042388.D

Acq: 18 Apr 2025 13:12

Tgt Ion:105 Resp: 17448

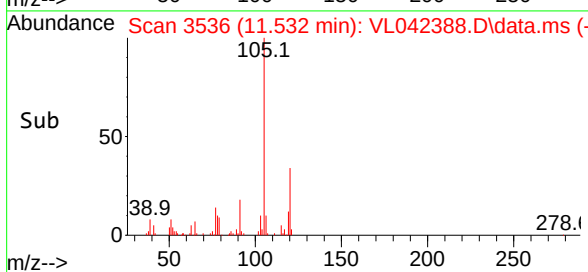
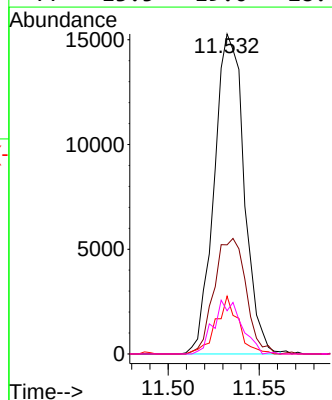
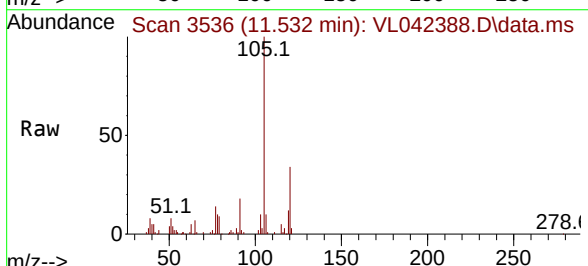
Ion Ratio Lower Upper

105 100

120 34.1 38.1 57.1#

91 18.1 48.8 73.2#

77 13.5 19.0 28.4#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
 Data File : VL042389.D
 Acq On : 18 Apr 2025 13:43
 Operator : SY/MD
 Sample : Q1726-04DL2 40X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-5-03312025DL2

Quant Time: Apr 18 22:58:55 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)

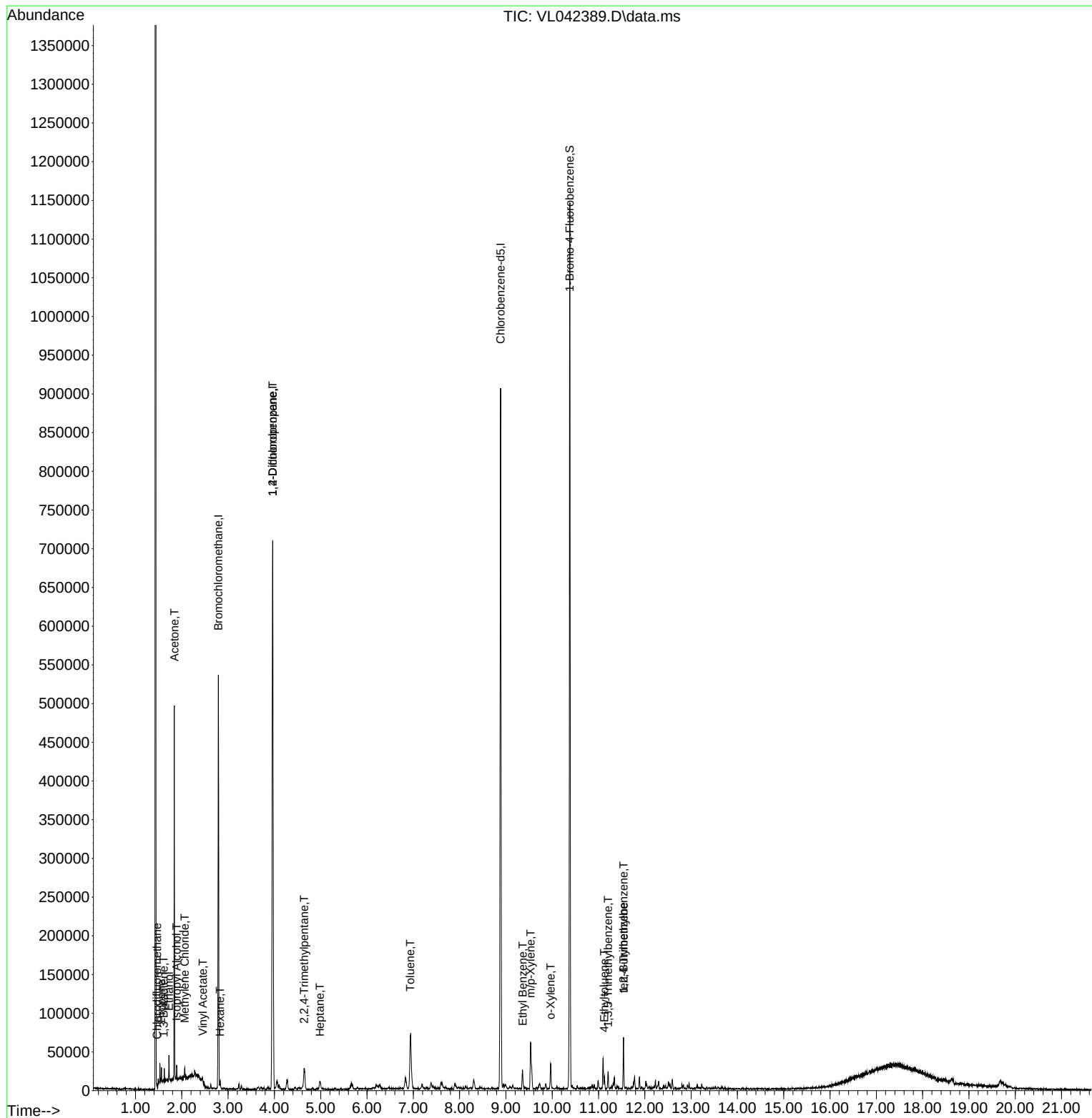
Internal Standards						
1) Bromochloromethane	2.790	49	134501	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	412843	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	353048	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	286509	9.876	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.800%
Target Compounds						
					Qvalue	
3) Chlorodifluoromethane	1.466	51	1191	0.053	ppbv #	79
9) Propene	1.560	41	2630	0.255	ppbv	95
10) Heptane	4.981	43	2546	0.088	ppbv #	43
13) Ethanol	1.722	45	9628	5.878	ppbv #	24
15) Acetone	1.839	43	207223	9.411	ppbv	100
16) 1,3-Butadiene	1.612	39	352	0.033	ppbv #	9
19) Isopropyl Alcohol	1.887	45	7883	0.644	ppbv #	1
20) Methylene Chloride	2.065	84	1895	0.220	ppbv #	80
23) Vinyl Acetate	2.454	43	1099	0.123	ppbv #	1
26) Hexane	2.826	57	2480	0.113	ppbv #	35
39) 1,2-Dichloropropane	3.962	63	103884	6.260	ppbv #	23
44) 2,2,4-Trimethylpentane	4.641	57	12138	0.158	ppbv #	24
53) Toluene	6.936	91	47465	0.888	ppbv	99
58) Ethyl Benzene	9.361	91	12734	0.182	ppbv #	85
59) m/p-Xylene	9.532	91	37128	0.659	ppbv	98
60) o-Xylene	9.966	91	14405	0.254	ppbv	99
65) tert-Butylbenzene	11.539	119	2639	0.034	ppbv #	55
72) 4-Ethyltoluene	11.124	105	6239	0.090	ppbv #	56
73) 1,3,5-Trimethylbenzene	11.205	105	7150	0.117	ppbv	97
74) 1,2,4-Trimethylbenzene	11.539	105	24212	0.338	ppbv #	59

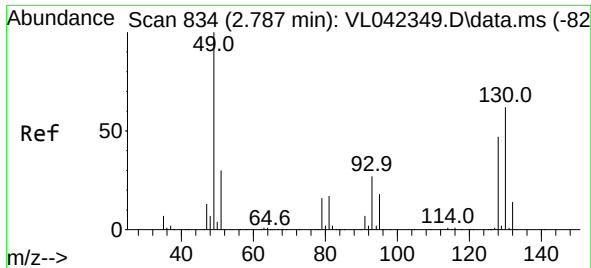
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
Data File : VL042389.D
Acq On : 18 Apr 2025 13:43
Operator : SY/MD
Sample : Q1726-04DL2 40X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL2

Quant Time: Apr 18 22:58:55 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

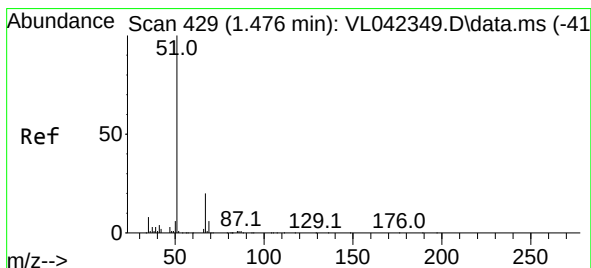
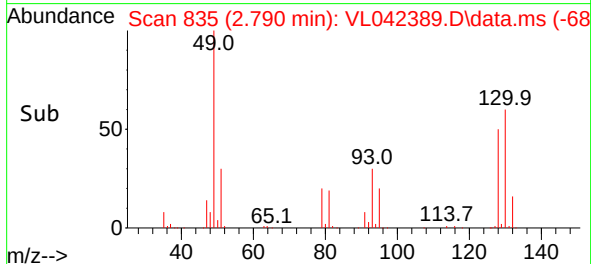
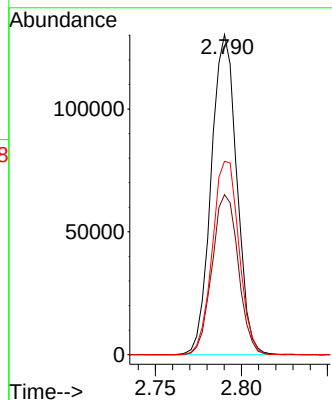
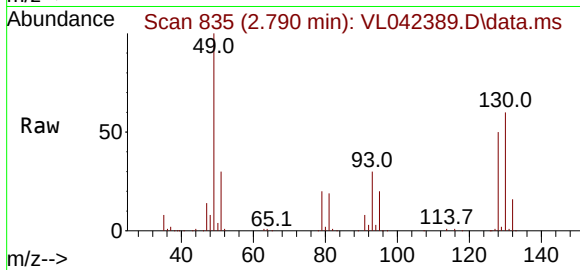




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

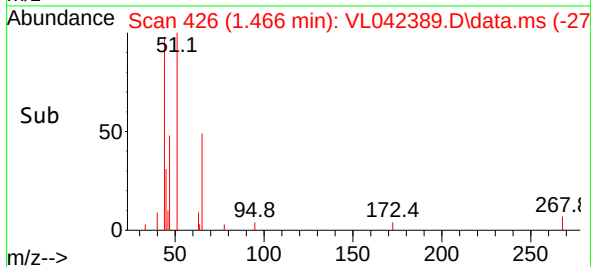
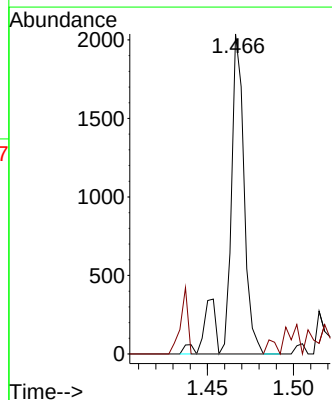
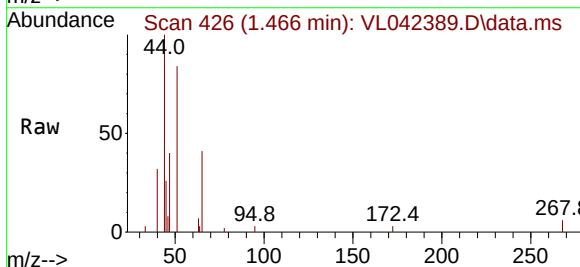
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL2

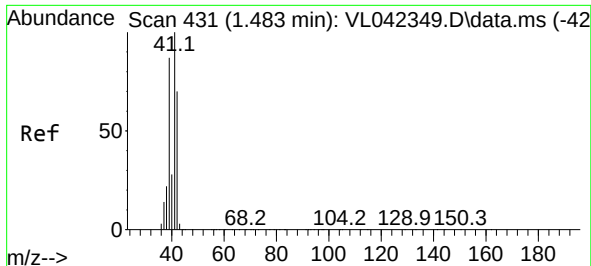
Tgt Ion: 49 Resp: 134501
Ion Ratio Lower Upper
49 100
128 51.5 22.8 68.4
130 63.0 29.3 88.0



#3
Chlorodifluoromethane
Concen: 0.053 ppbv
RT: 1.466 min Scan# 426
Delta R.T. -0.010 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

Tgt Ion: 51 Resp: 1191
Ion Ratio Lower Upper
51 100
67 10.5 16.2 24.4#





#9

Propene

Concen: 0.255 ppbv

RT: 1.560 min Scan# 41

Delta R.T. 0.078 min

Lab File: VL042389.D

Acq: 18 Apr 2025 13:43

Instrument :

MSVOA_L

ClientSampleId :

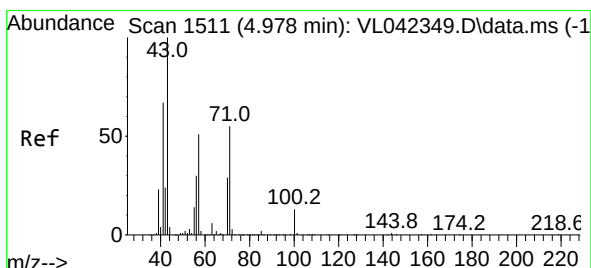
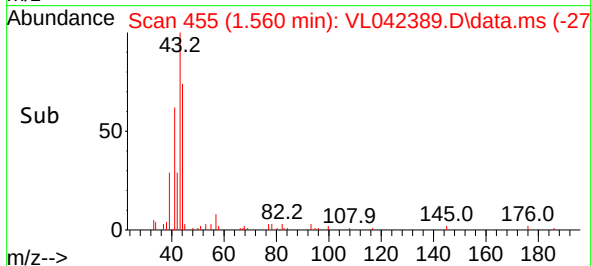
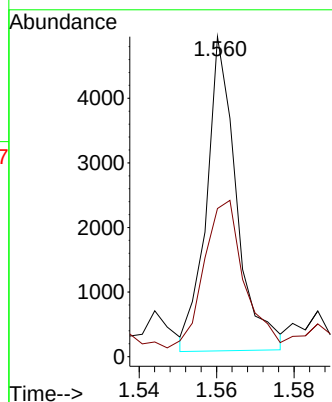
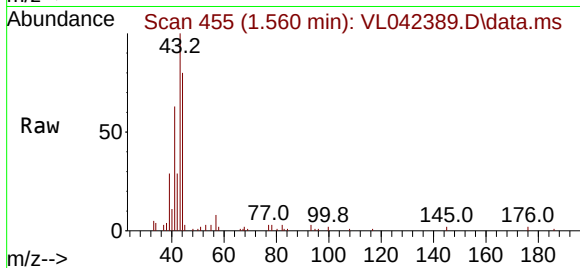
IA-B2-5-03312025DL2

Tgt Ion: 41 Resp: 2630

Ion Ratio Lower Upper

41 100

42 66.3 56.2 84.4



#10

Heptane

Concen: 0.088 ppbv

RT: 4.981 min Scan# 1512

Delta R.T. 0.003 min

Lab File: VL042389.D

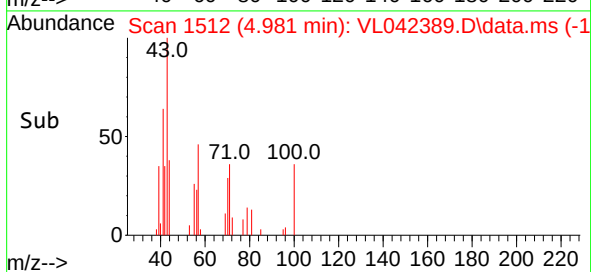
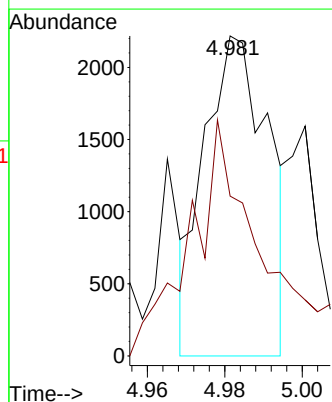
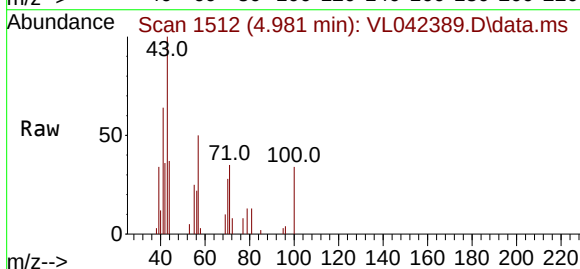
Acq: 18 Apr 2025 13:43

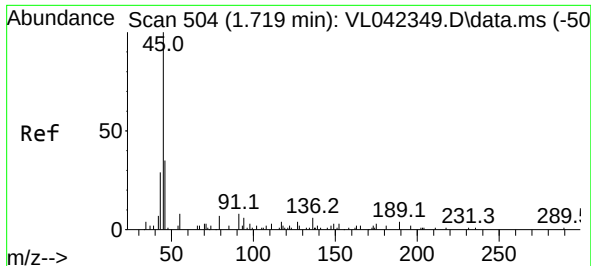
Tgt Ion: 43 Resp: 2546

Ion Ratio Lower Upper

43 100

57 89.2 39.9 59.9#

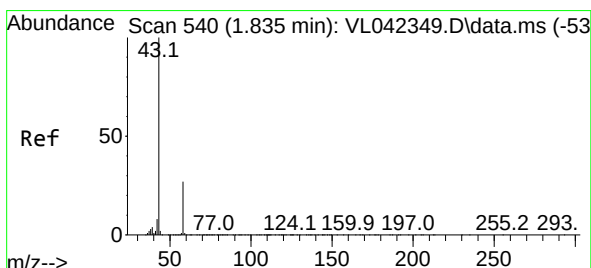
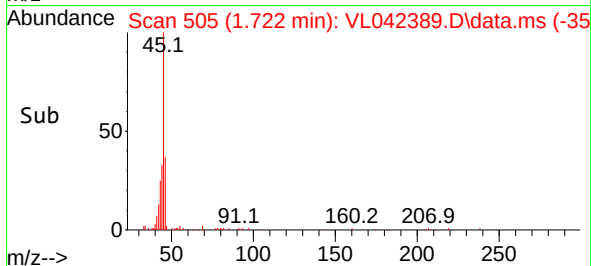
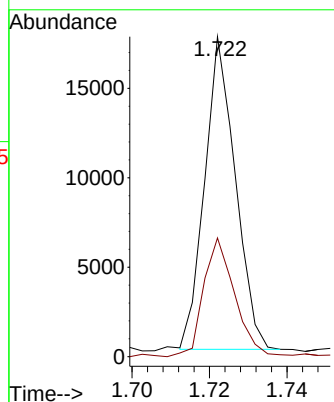
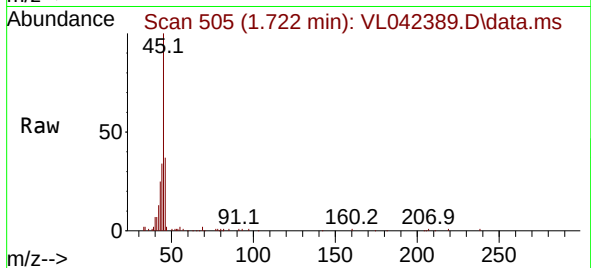




#13
 Ethanol
 Concen: 5.878 ppbv
 RT: 1.722 min Scan# 504
 Delta R.T. 0.003 min
 Lab File: VL042389.D
 Acq: 18 Apr 2025 13:43

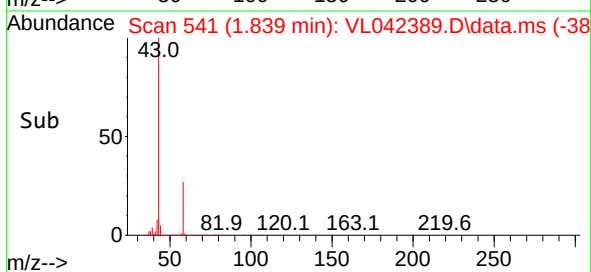
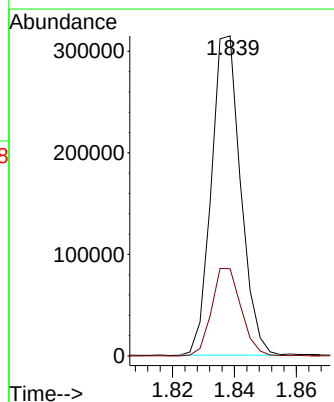
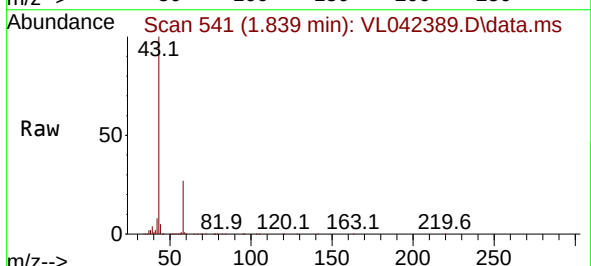
Instrument :
 MSVOA_1
 ClientSampleId :
 IA-B2-5-03312025DL2

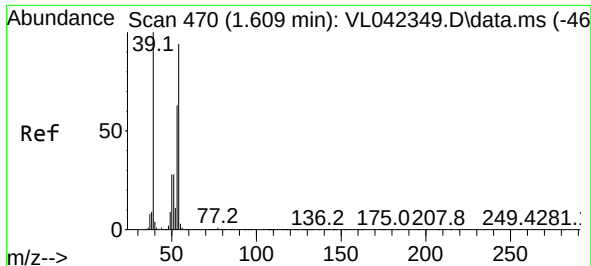
Tgt Ion: 45 Resp: 9628
 Ion Ratio Lower Upper
 45 100
 46 0.0 21.9 87.7#



#15
 Acetone
 Concen: 9.411 ppbv
 RT: 1.839 min Scan# 541
 Delta R.T. 0.003 min
 Lab File: VL042389.D
 Acq: 18 Apr 2025 13:43

Tgt Ion: 43 Resp: 207223
 Ion Ratio Lower Upper
 43 100
 58 27.9 22.4 33.6

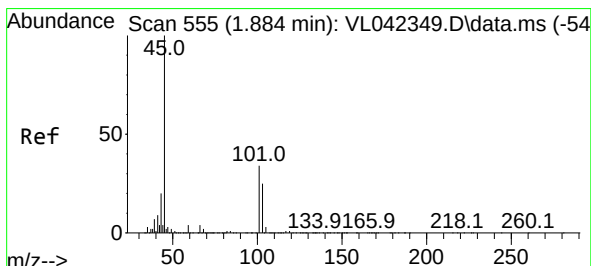
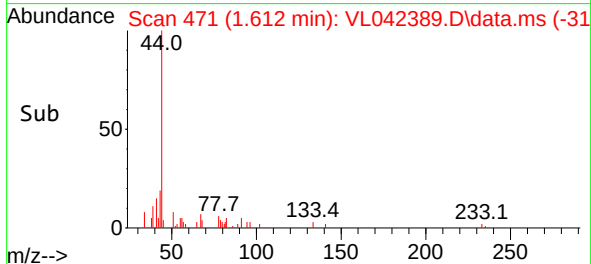
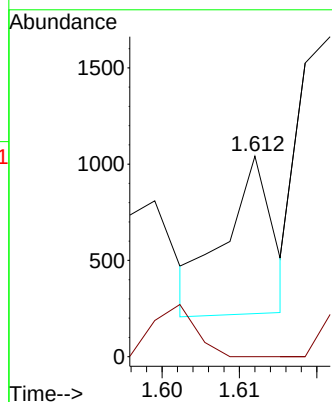
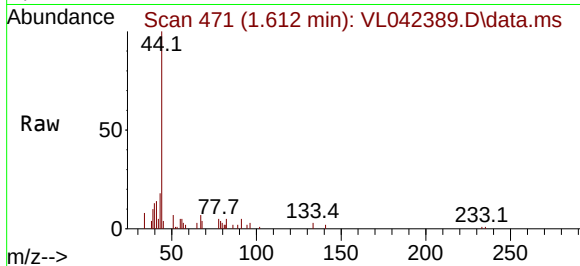




#16
1,3-Butadiene
Concen: 0.033 ppbv
RT: 1.612 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

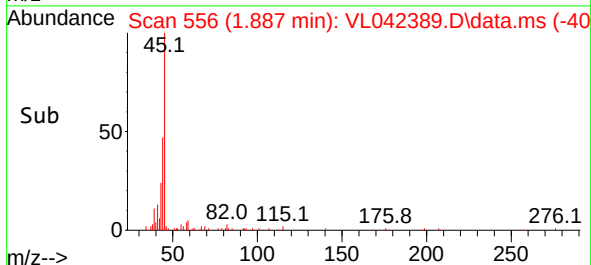
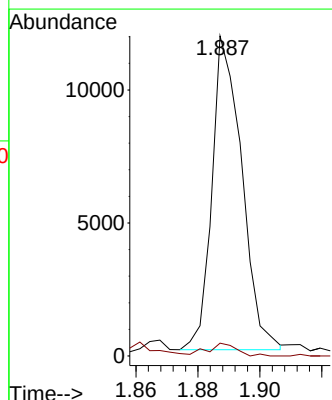
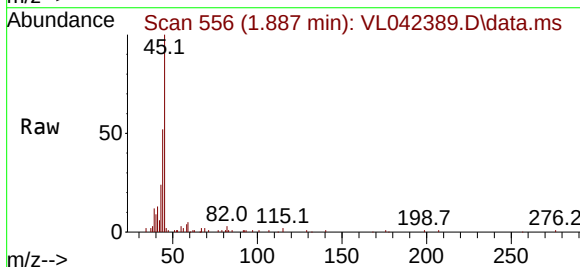
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL2

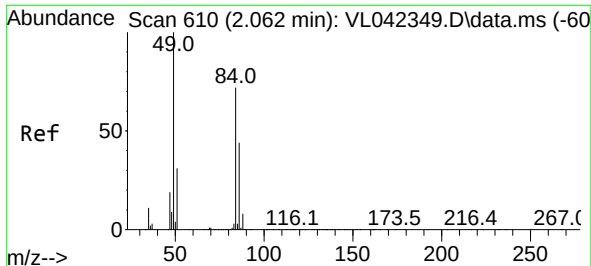
Tgt Ion: 39 Resp: 352
Ion Ratio Lower Upper
39 100
54 0.0 64.9 97.3#



#19
Isopropyl Alcohol
Concen: 0.644 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

Tgt Ion: 45 Resp: 7883
Ion Ratio Lower Upper
45 100
58 733.5 34.5 51.7#

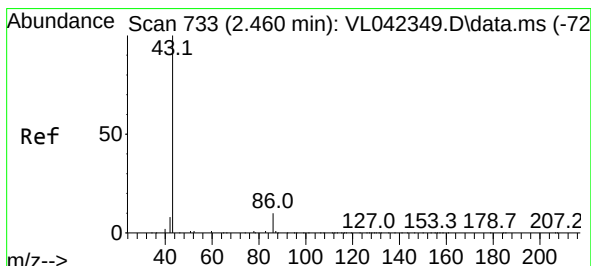
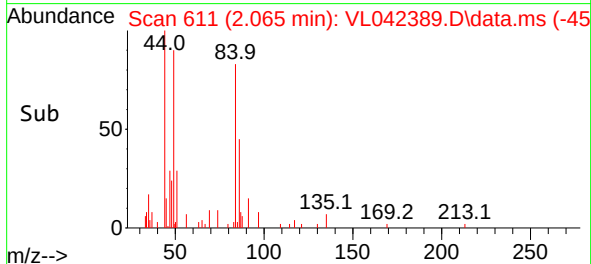
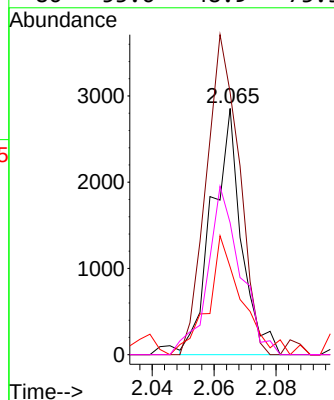
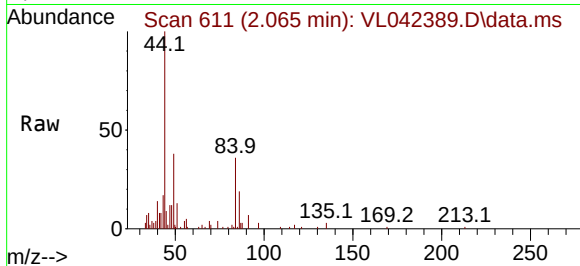




#20
Methylene Chloride
Concen: 0.220 ppbv
RT: 2.065 min Scan# 610
Delta R.T. 0.003 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

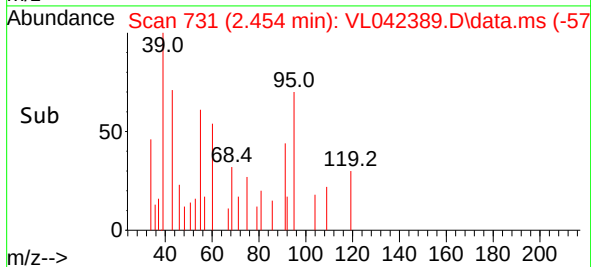
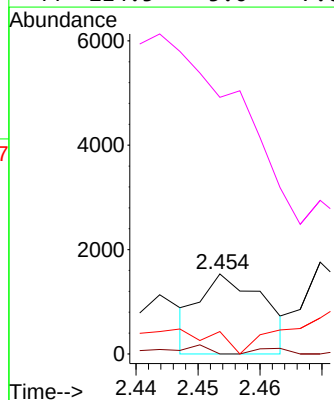
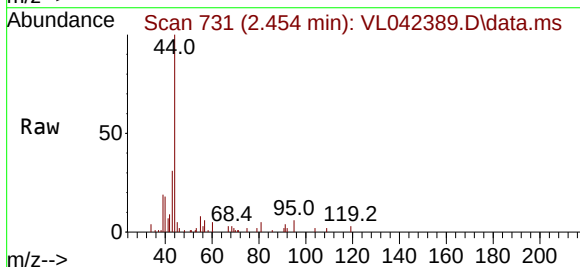
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL2

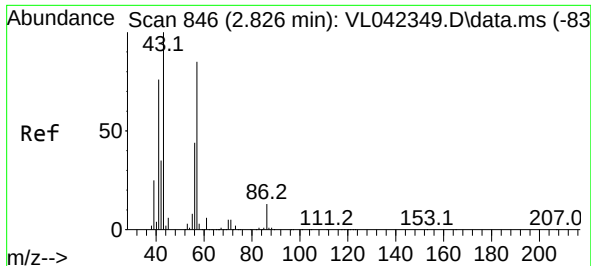
Tgt Ion:	84	Resp:	1895
Ion	Ratio	Lower	Upper
84	100		
49	110.8	111.6	167.4#
51	29.6	35.1	52.7#
86	53.6	48.9	73.3



#23
Vinyl Acetate
Concen: 0.123 ppbv
RT: 2.454 min Scan# 731
Delta R.T. -0.007 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

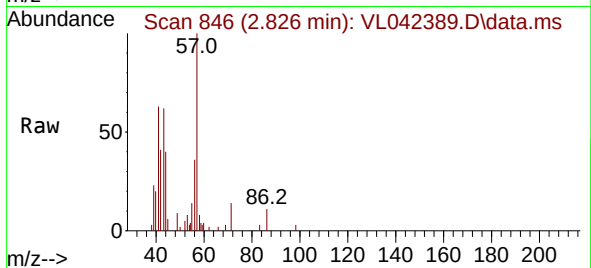
Tgt Ion:	43	Resp:	1099
Ion	Ratio	Lower	Upper
43	100		
86	0.0	6.5	9.7#
42	0.0	7.8	11.8#
44	214.5	5.0	7.6#



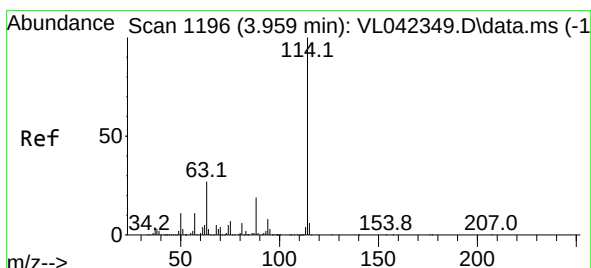
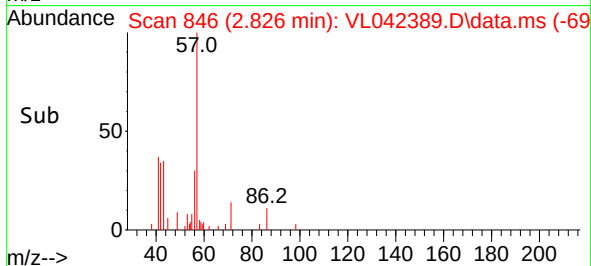
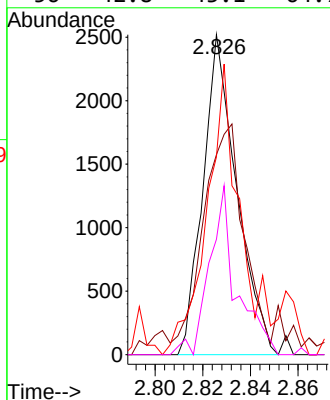


#26
Hexane
Concen: 0.113 ppbv
RT: 2.826 min Scan# 846
Delta R.T. -0.000 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL2

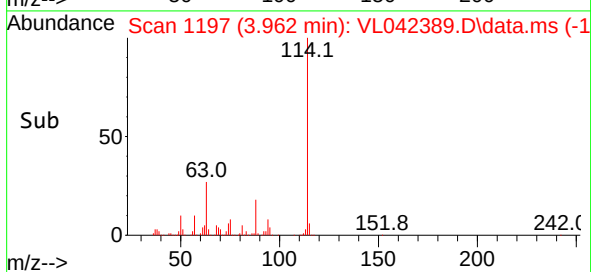
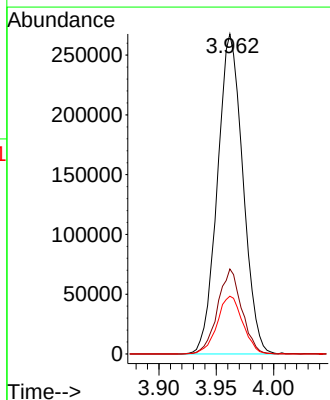
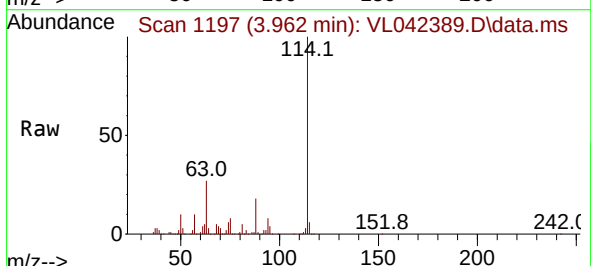


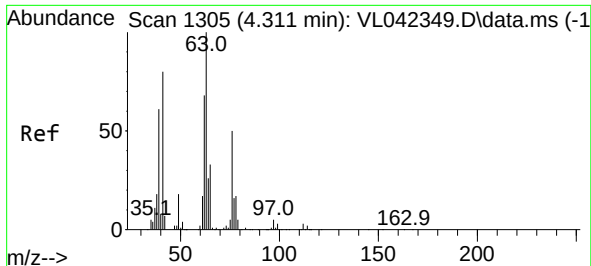
Tgt Ion: 57	Resp: 2480
Ion Ratio	Lower Upper
57 100	
41 107.0	77.9 116.9
43 88.2	208.4 312.6#
56 42.8	43.1 64.7#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.962 min Scan# 1197
Delta R.T. 0.003 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

Tgt Ion:114	Resp: 412843
Ion Ratio	Lower Upper
114 100	
63 25.2	21.8 32.6
88 18.1	15.5 23.3





#39

1,2-Dichloropropane

Concen: 6.260 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. -0.350 min

Lab File: VL042389.D

Acq: 18 Apr 2025 13:43

Instrument :

MSVOA_L

ClientSampleId :

IA-B2-5-03312025DL2

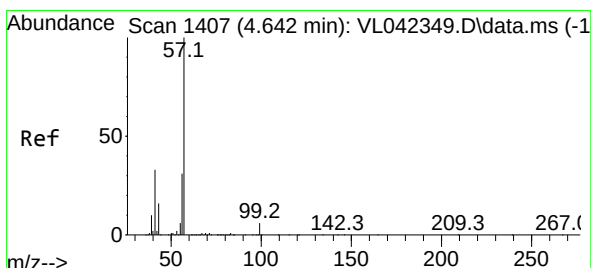
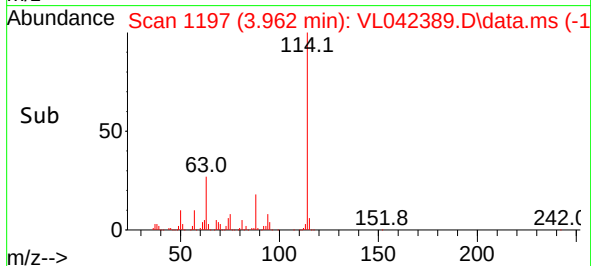
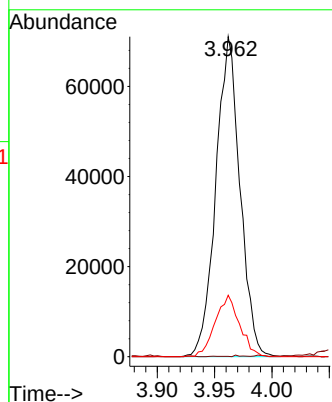
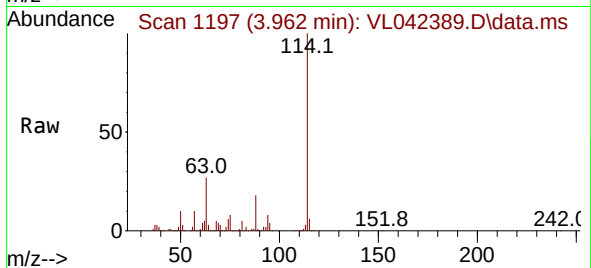
Tgt Ion: 63 Resp: 103884

Ion Ratio Lower Upper

63 100

41 0.1 64.2 96.2#

62 19.2 54.3 81.5#



#44

2,2,4-Trimethylpentane

Concen: 0.158 ppbv

RT: 4.641 min Scan# 1407

Delta R.T. -0.000 min

Lab File: VL042389.D

Acq: 18 Apr 2025 13:43

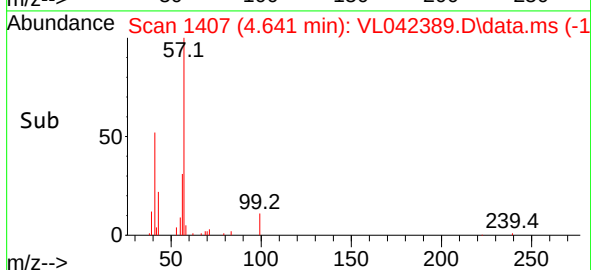
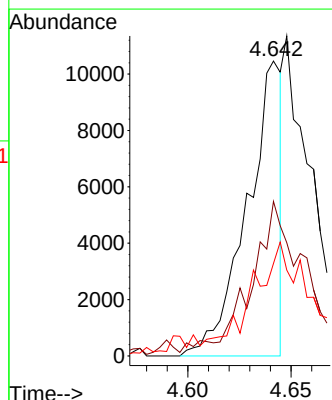
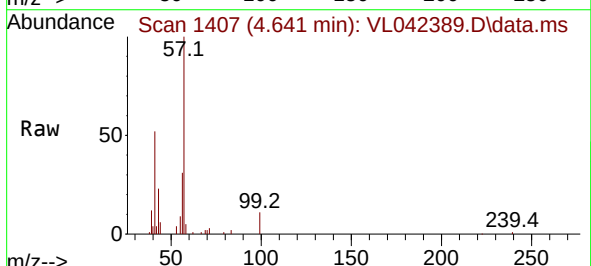
Tgt Ion: 57 Resp: 12138

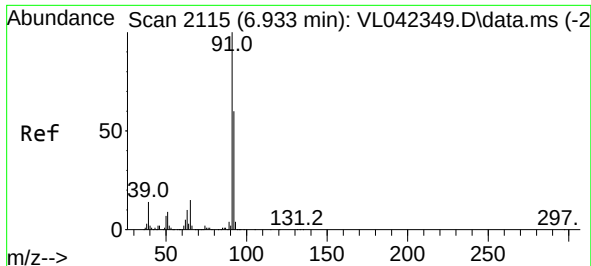
Ion Ratio Lower Upper

57 100

41 87.4 27.2 40.8#

56 0.0 25.7 38.5#

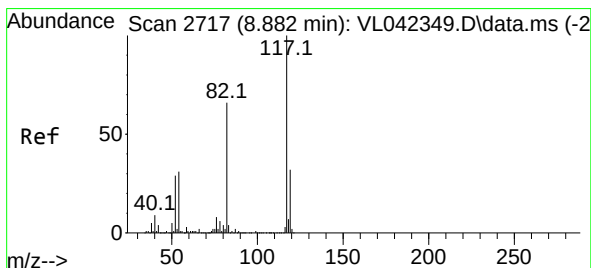
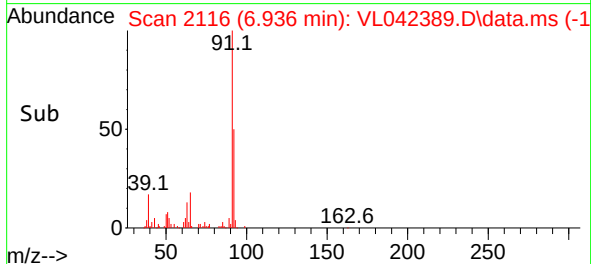
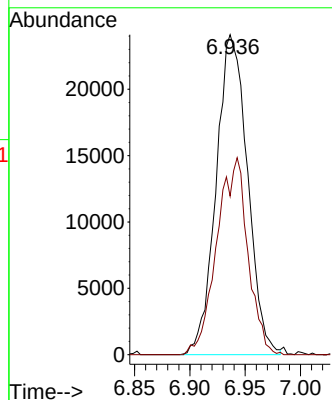
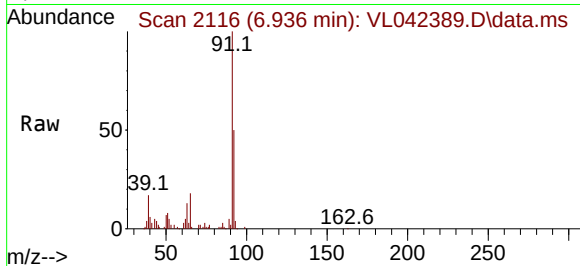




#53
Toluene
Concen: 0.888 ppbv
RT: 6.936 min Scan# 2115
Delta R.T. 0.003 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

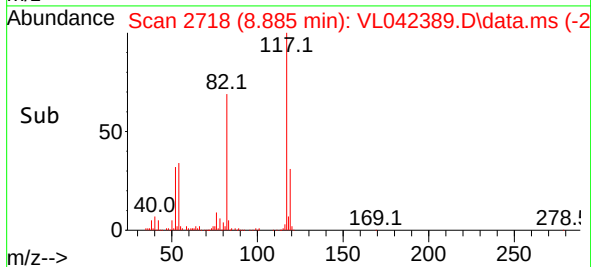
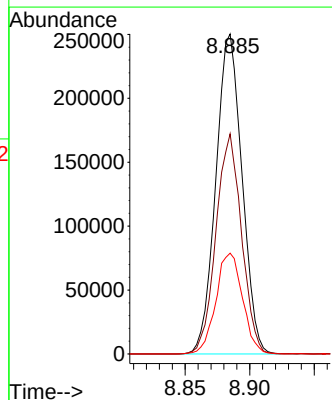
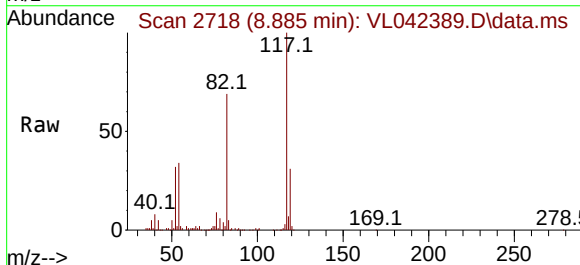
Instrument :
MSVOA_1
ClientSampleId :
IA-B2-5-03312025DL2

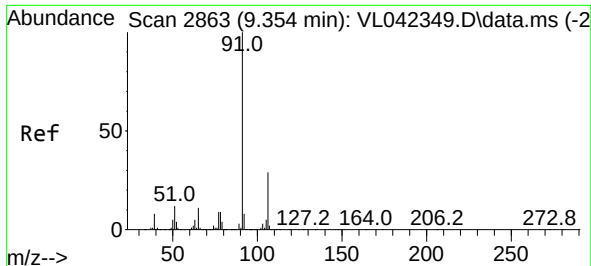
Tgt Ion: 91 Resp: 47465
Ion Ratio Lower Upper
91 100
92 61.0 48.2 72.4



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2718
Delta R.T. 0.003 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

Tgt Ion: 117 Resp: 353048
Ion Ratio Lower Upper
117 100
82 67.1 57.8 86.6
119 32.1 25.2 37.8

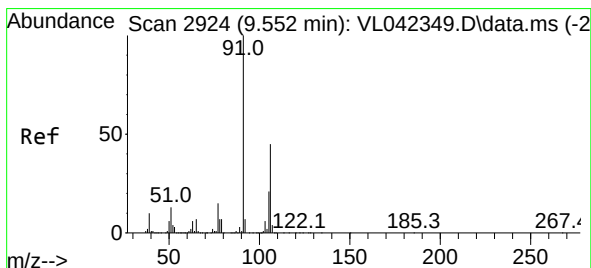
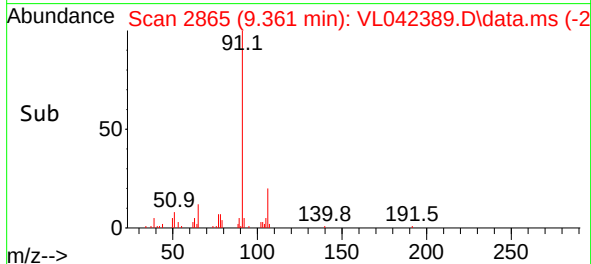
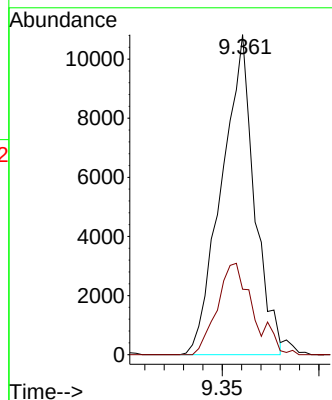
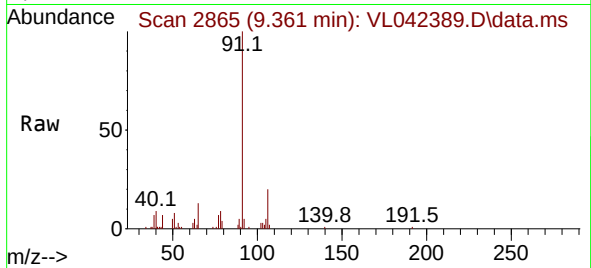




#58
Ethyl Benzene
Concen: 0.182 ppbv
RT: 9.361 min Scan# 218
Delta R.T. 0.006 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

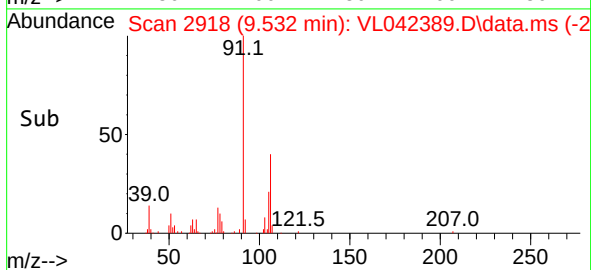
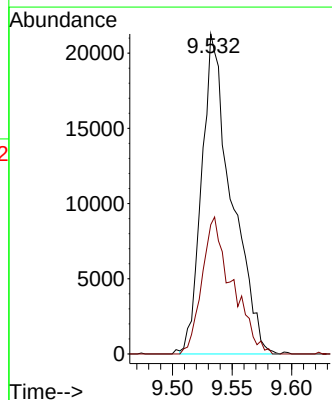
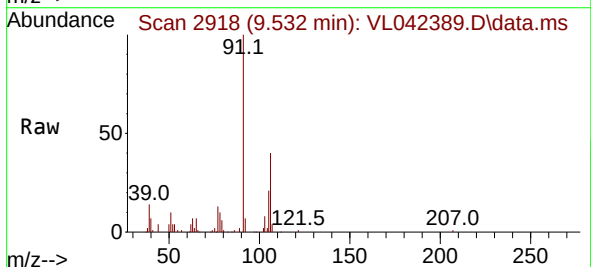
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL2

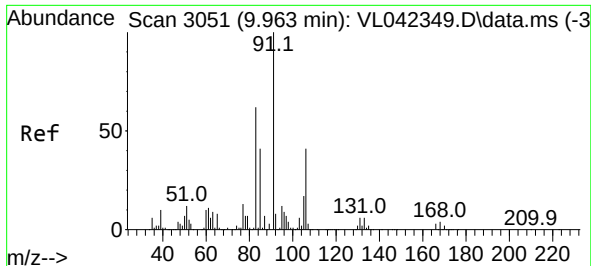
Tgt Ion: 91 Resp: 12734
Ion Ratio Lower Upper
91 100
106 20.5 23.0 34.4#



#59
m/p-Xylene
Concen: 0.659 ppbv
RT: 9.532 min Scan# 2918
Delta R.T. -0.019 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

Tgt Ion: 91 Resp: 37128
Ion Ratio Lower Upper
91 100
106 43.2 35.4 53.2

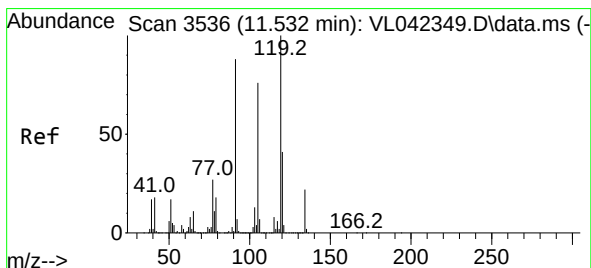
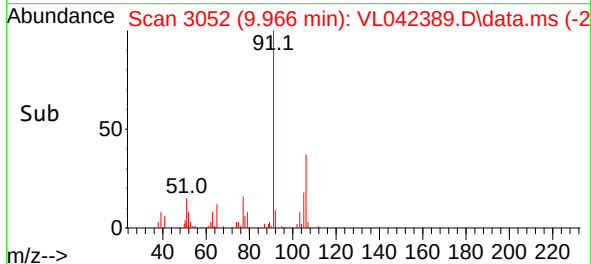
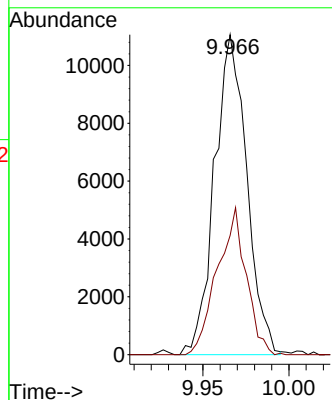
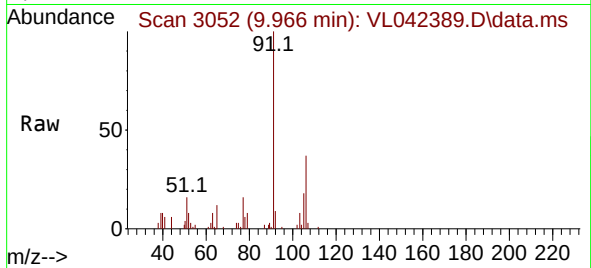




#60
o-Xylene
Concen: 0.254 ppbv
RT: 9.966 min Scan# 3051
Delta R.T. 0.003 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

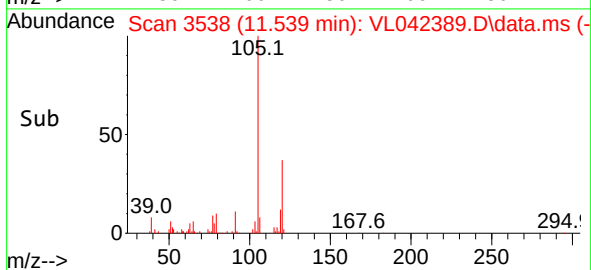
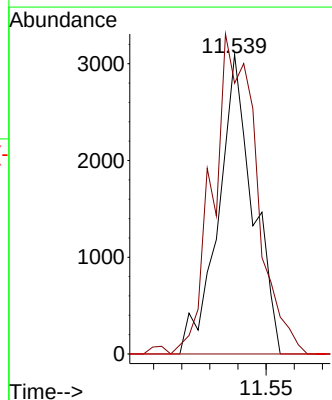
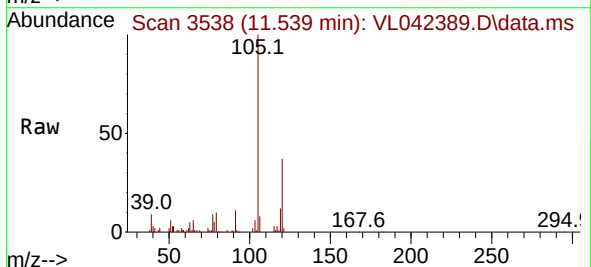
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-03312025DL2

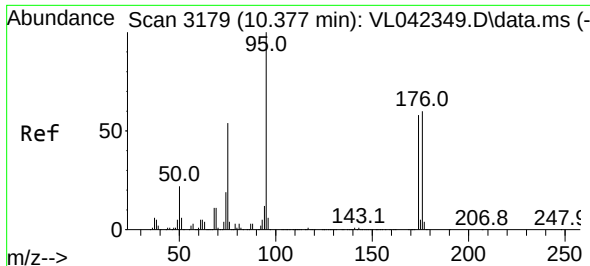
Tgt Ion: 91 Resp: 14405
Ion Ratio Lower Upper
91 100
106 41.4 21.1 63.4



#65
tert-Butylbenzene
Concen: 0.034 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.006 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

Tgt Ion: 119 Resp: 2639
Ion Ratio Lower Upper
119 100
91 135.2 74.6 111.8#
134 0.0 18.8 28.2#

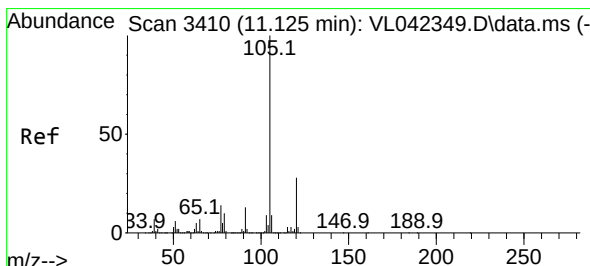
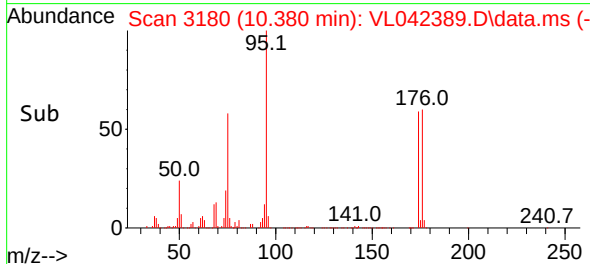
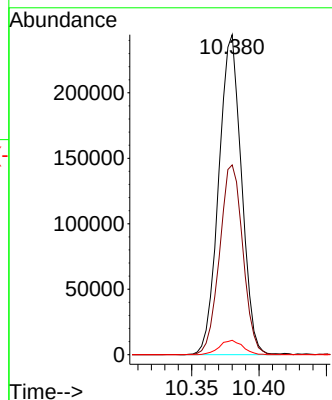
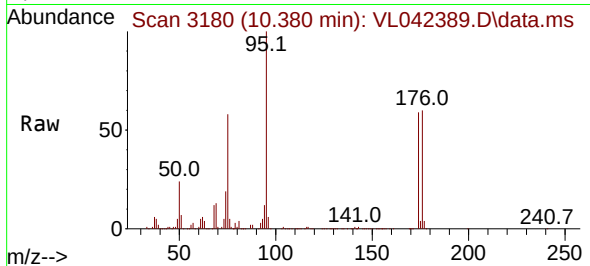




#68
1-Bromo-4-Fluorobenzene
Concen: 9.876 ppbv
RT: 10.380 min Scan# 3179
Delta R.T. 0.003 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

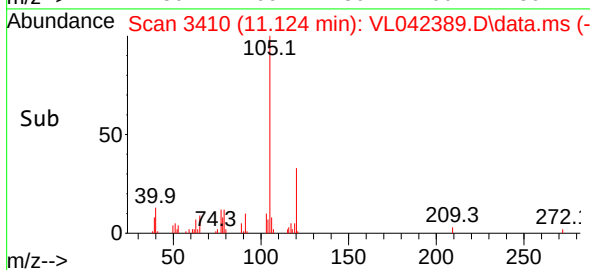
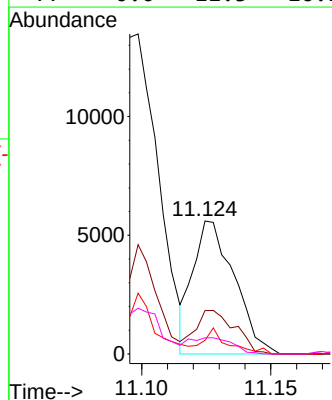
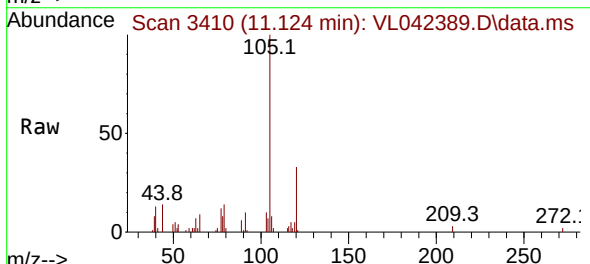
Instrument :
MSVOA_1
ClientSampleId :
IA-B2-5-03312025DL2

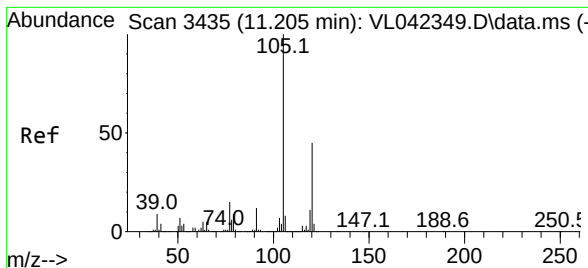
Tgt Ion: 95 Resp: 286509
Ion Ratio Lower Upper
95 100
174 60.9 48.5 72.7
175 4.6 3.7 5.5



#72
4-Ethyltoluene
Concen: 0.090 ppbv
RT: 11.124 min Scan# 3410
Delta R.T. -0.000 min
Lab File: VL042389.D
Acq: 18 Apr 2025 13:43

Tgt Ion: 105 Resp: 6239
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: 0.117 ppbv

RT: 11.205 min Scan# 3435

Delta R.T. -0.000 min

Lab File: VL042389.D

Acq: 18 Apr 2025 13:43

Instrument :

MSVOA_1

ClientSampleId :

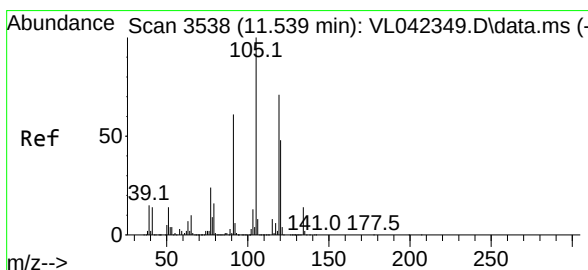
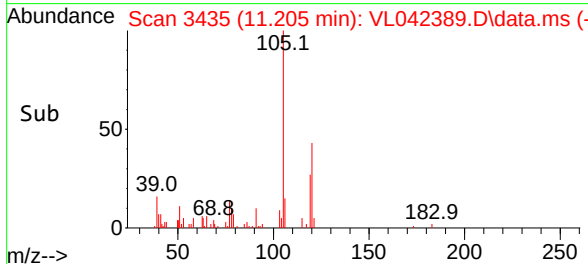
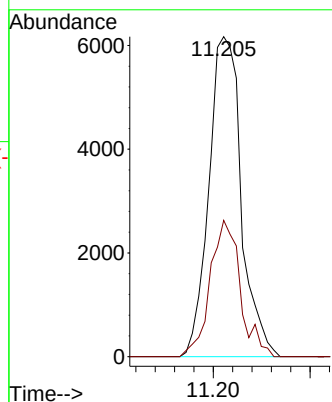
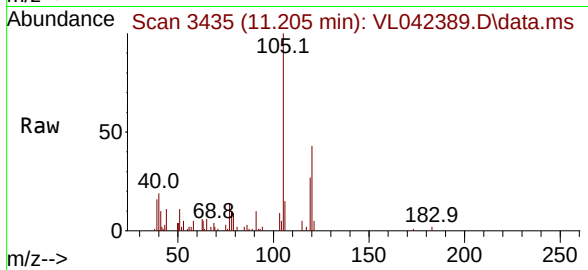
IA-B2-5-03312025DL2

Tgt Ion:105 Resp: 7150

Ion Ratio Lower Upper

105 100

120 42.6 35.6 53.4



#74

1,2,4-Trimethylbenzene

Concen: 0.338 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. -0.000 min

Lab File: VL042389.D

Acq: 18 Apr 2025 13:43

Tgt Ion:105 Resp: 24212

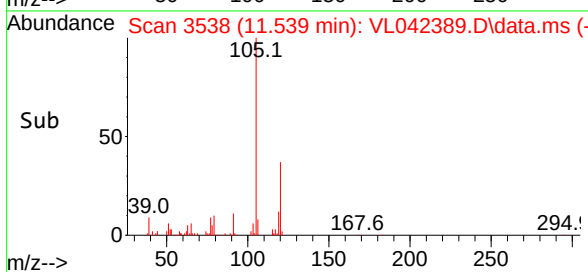
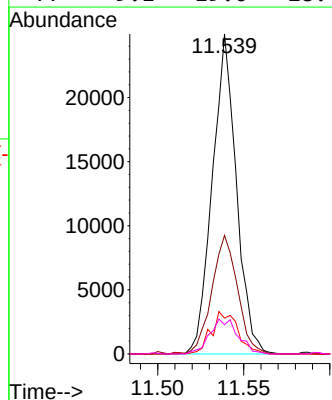
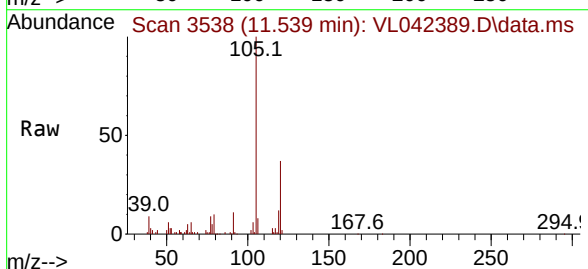
Ion Ratio Lower Upper

105 100

120 37.1 38.1 57.1#

91 11.2 48.8 73.2#

77 9.1 19.0 28.4#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
 Data File : VL042390.D
 Acq On : 18 Apr 2025 14:14
 Operator : SY/MD
 Sample : Q1726-03DL2 100X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-2-03312025DL2

Quant Time: Apr 18 22:59:21 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)

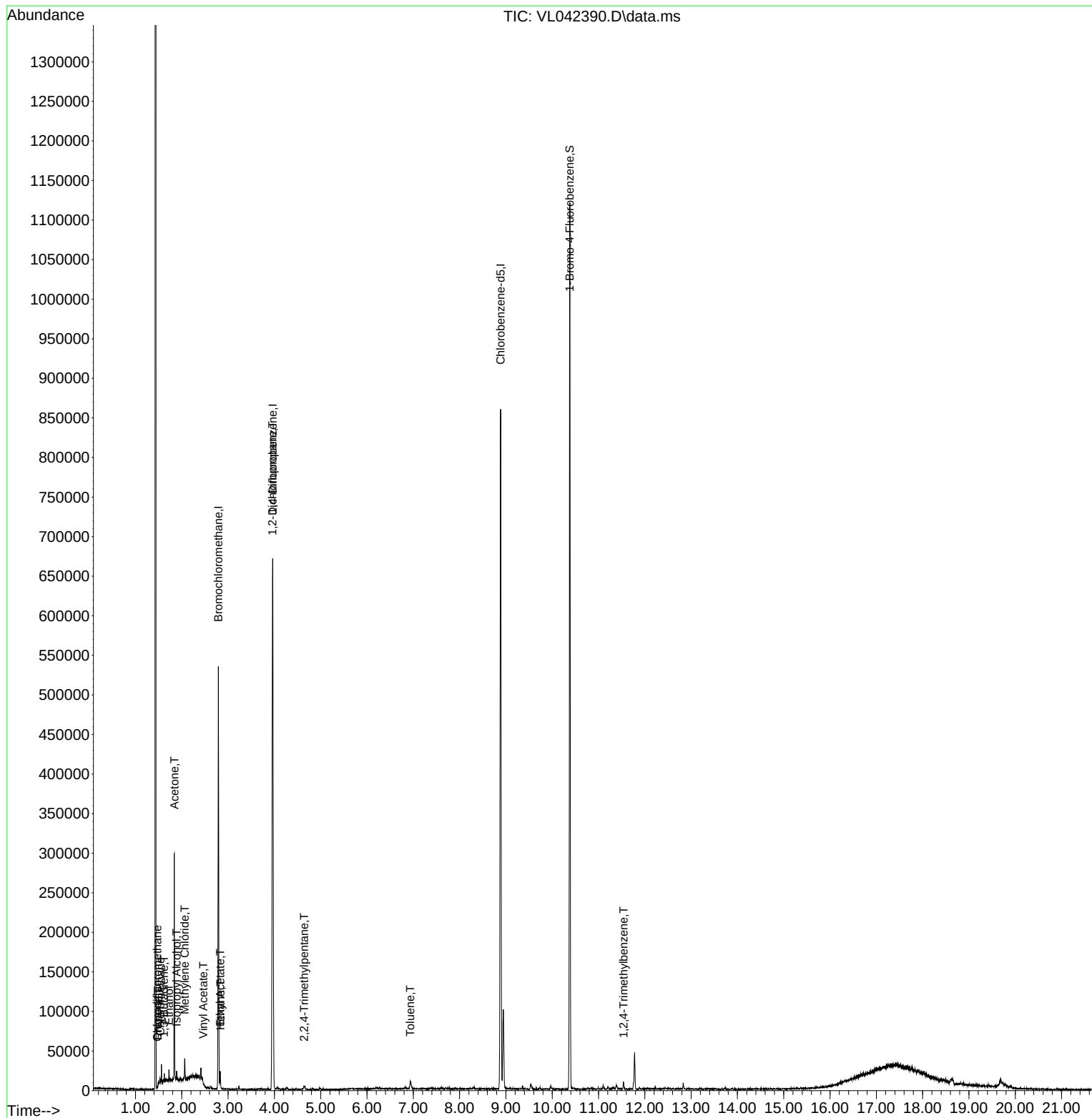
Internal Standards						
1) Bromochloromethane	2.790	49	127324	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	395389	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	342875	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	281379	9.987	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.900%
Target Compounds						
					Qvalue	
3) Chlorodifluoromethane	1.470	51	787	0.037	ppbv #	74
4) Chloromethane	1.534	50	328	0.037	ppbv	97
9) Propene	1.486	41	703	0.072	ppbv #	49
13) Ethanol	1.722	45	3867	2.494	ppbv #	24
15) Acetone	1.839	43	126935	6.090	ppbv	97
16) 1,3-Butadiene	1.615	39	316	0.032	ppbv #	9
19) Isopropyl Alcohol	1.887	45	4184	0.361	ppbv #	1
20) Methylene Chloride	2.065	84	4377	0.536	ppbv #	83
23) Vinyl Acetate	2.463	43	455	0.054	ppbv #	75
25) Ethyl Acetate	2.829	43	3091	0.060	ppbv #	74
26) Hexane	2.832	57	4666	0.224	ppbv #	31
39) 1,2-Dichloropropane	3.959	63	102018	6.419	ppbv #	22
44) 2,2,4-Trimethylpentane	4.645	57	2268	0.031	ppbv #	11
53) Toluene	6.936	91	4094	0.080	ppbv #	43
74) 1,2,4-Trimethylbenzene	11.542	105	3706	0.053	ppbv #	56

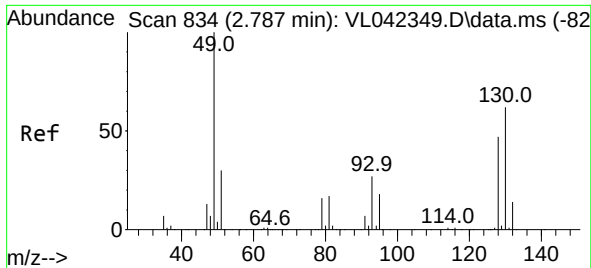
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
Data File : VL042390.D
Acq On : 18 Apr 2025 14:14
Operator : SY/MD
Sample : Q1726-03DL2 100X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025DL2

Quant Time: Apr 18 22:59:21 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

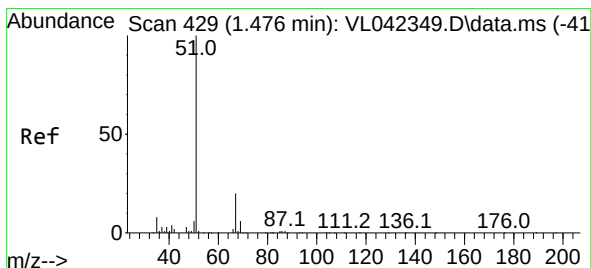
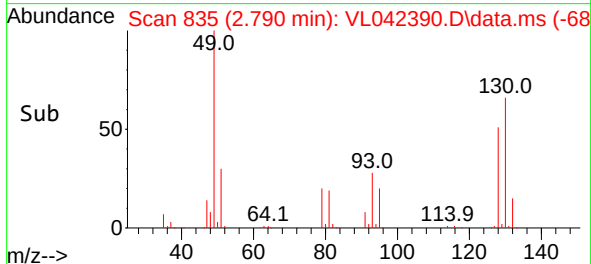
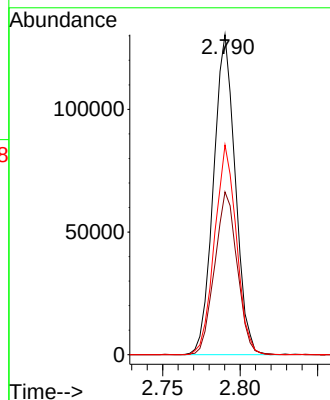
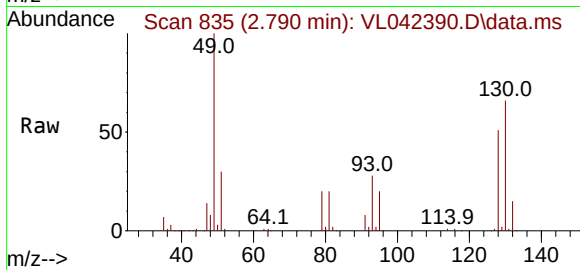




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042390.D
Acq: 18 Apr 2025 14:14

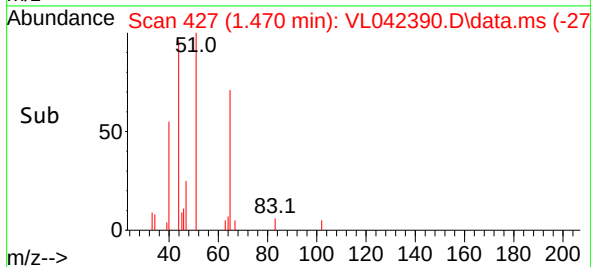
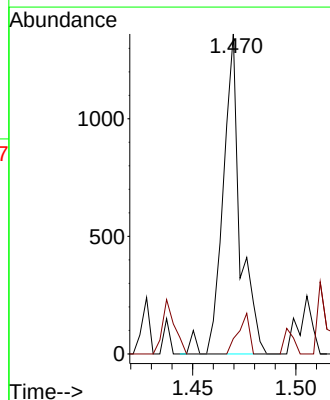
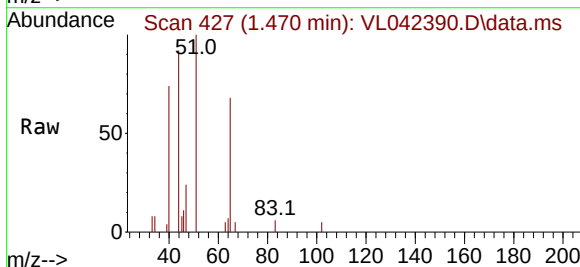
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025DL2

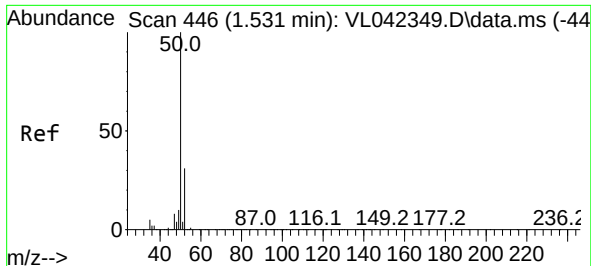
Tgt Ion: 49 Resp: 127324
Ion Ratio Lower Upper
49 100
128 52.6 22.8 68.4
130 65.9 29.3 88.0



#3
Chlorodifluoromethane
Concen: 0.037 ppbv
RT: 1.470 min Scan# 427
Delta R.T. -0.006 min
Lab File: VL042390.D
Acq: 18 Apr 2025 14:14

Tgt Ion: 51 Resp: 787
Ion Ratio Lower Upper
51 100
67 8.3 16.2 24.4#

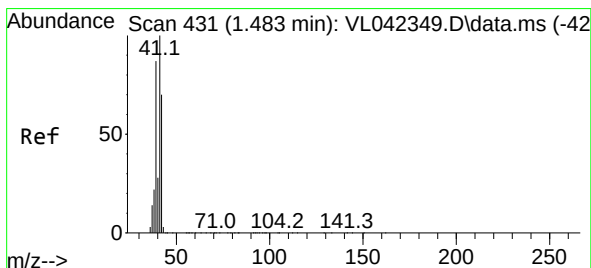
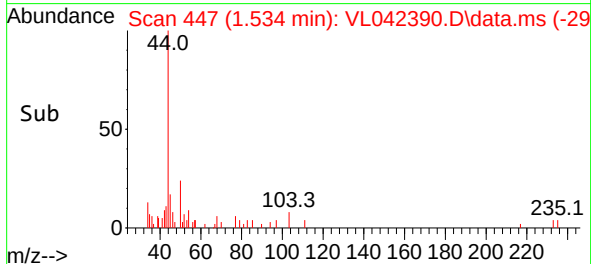
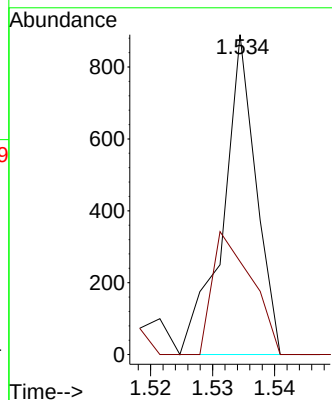
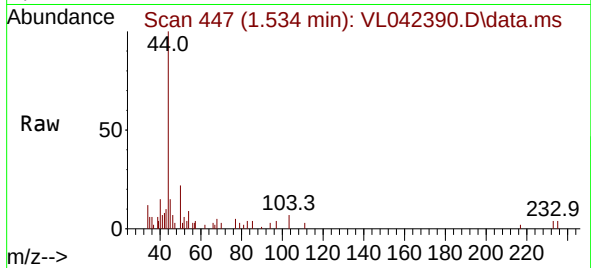




#4
Chloromethane
Concen: 0.037 ppbv
RT: 1.534 min Scan# 446
Delta R.T. 0.003 min
Lab File: VL042390.D
Acq: 18 Apr 2025 14:14

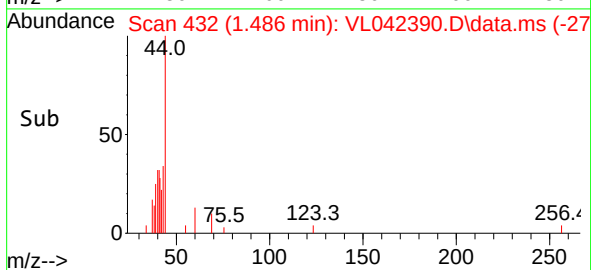
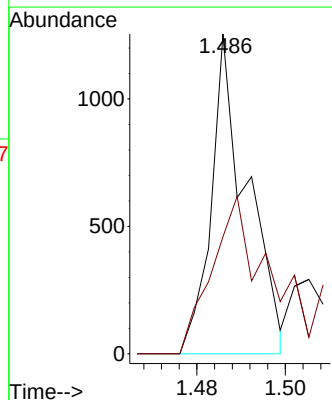
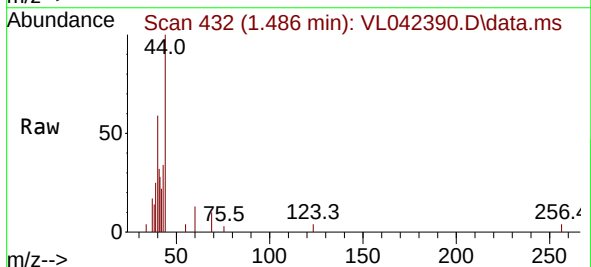
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025DL2

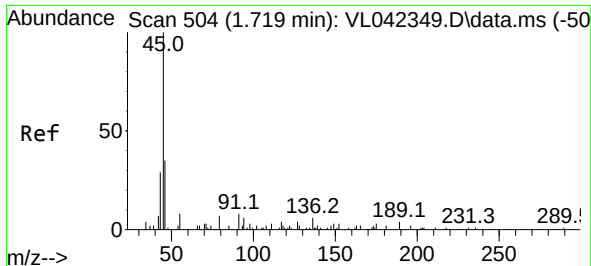
Tgt Ion: 50 Resp: 328
Ion Ratio Lower Upper
50 100
52 29.1 24.7 37.1



#9
Propene
Concen: 0.072 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.003 min
Lab File: VL042390.D
Acq: 18 Apr 2025 14:14

Tgt Ion: 41 Resp: 703
Ion Ratio Lower Upper
41 100
42 112.1 56.2 84.4#

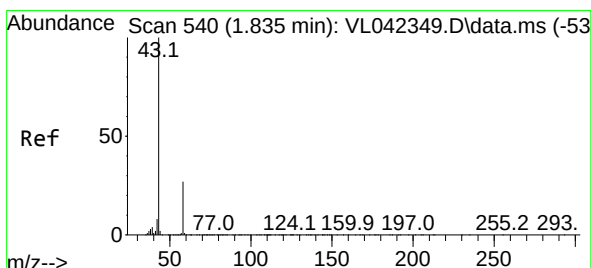
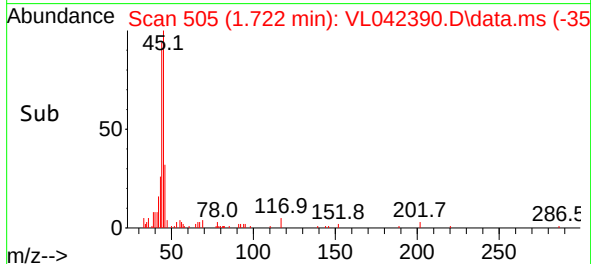
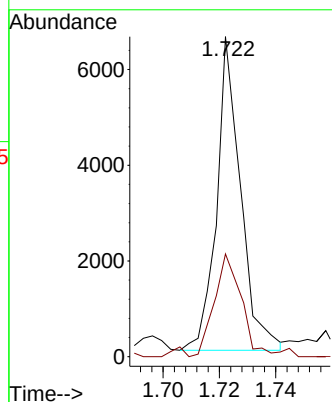
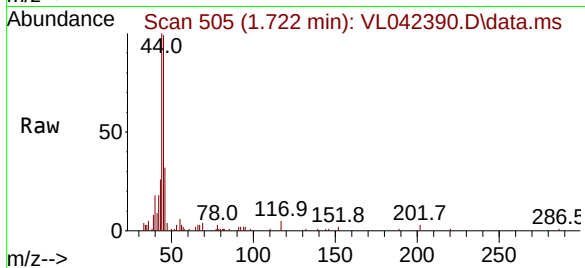




#13
Ethanol
Concen: 2.494 ppbv
RT: 1.722 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL042390.D
Acq: 18 Apr 2025 14:14

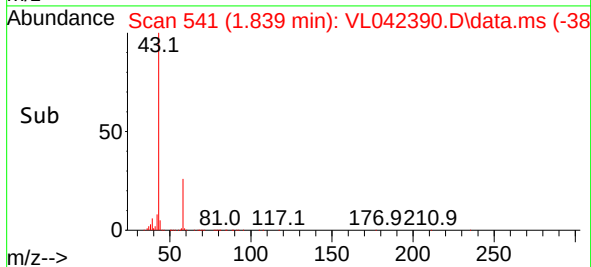
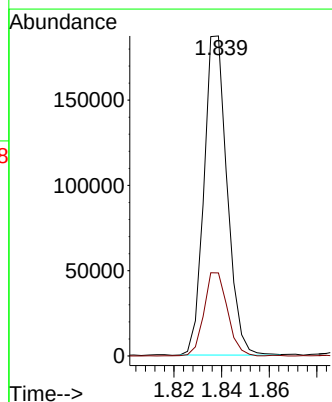
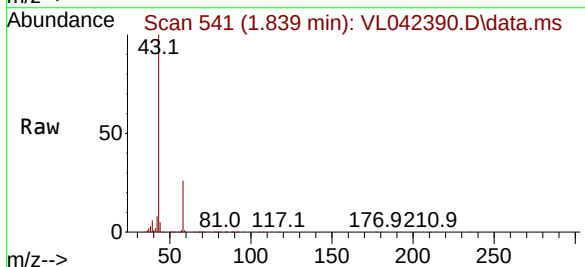
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025DL2

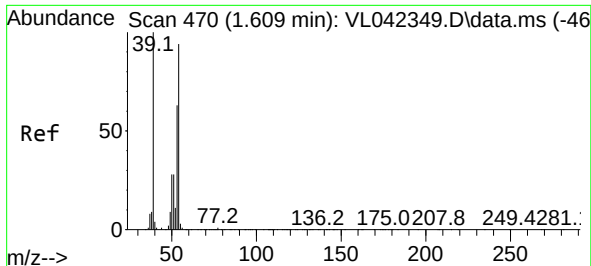
Tgt Ion: 45 Resp: 3867
Ion Ratio Lower Upper
45 100
46 0.0 21.9 87.7#



#15
Acetone
Concen: 6.090 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL042390.D
Acq: 18 Apr 2025 14:14

Tgt Ion: 43 Resp: 126935
Ion Ratio Lower Upper
43 100
58 26.7 22.4 33.6





#16

1,3-Butadiene

Concen: 0.032 ppbv

RT: 1.615 min Scan# 41

Delta R.T. 0.007 min

Lab File: VL042390.D

Acq: 18 Apr 2025 14:14

Instrument :

MSVOA_L

ClientSampleId :

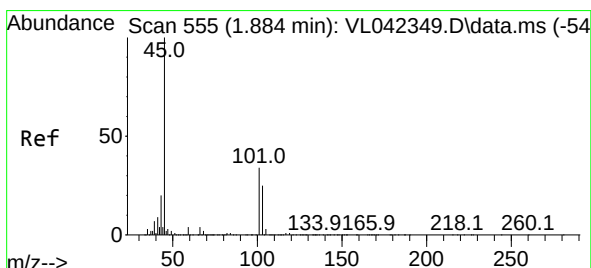
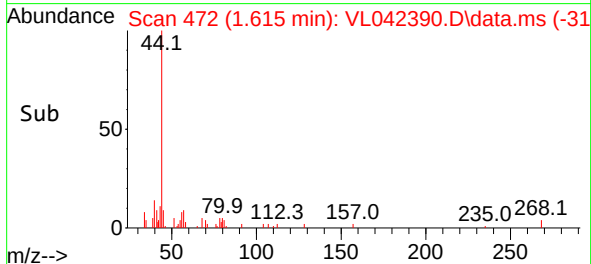
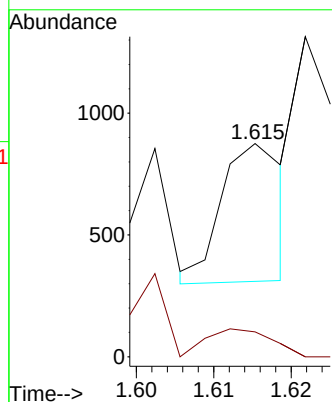
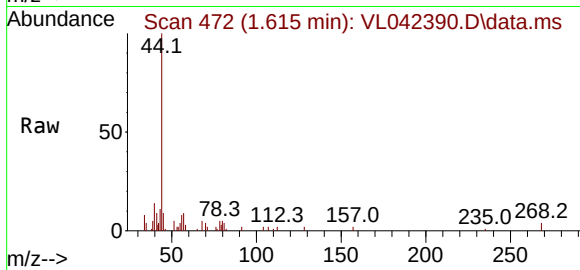
IA-B2-2-03312025DL2

Tgt Ion: 39 Resp: 316

Ion Ratio Lower Upper

39 100

54 0.0 64.9 97.3#



#19

Isopropyl Alcohol

Concen: 0.361 ppbv

RT: 1.887 min Scan# 556

Delta R.T. 0.003 min

Lab File: VL042390.D

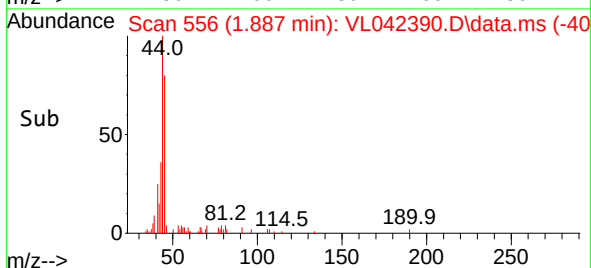
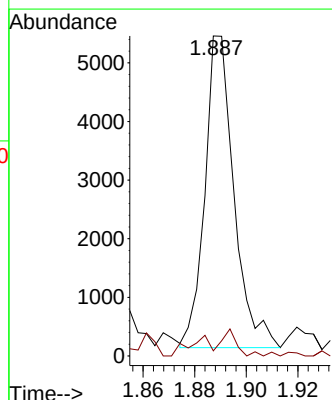
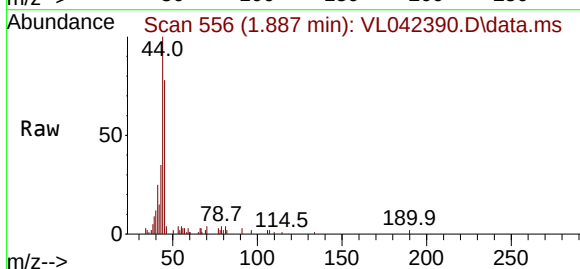
Acq: 18 Apr 2025 14:14

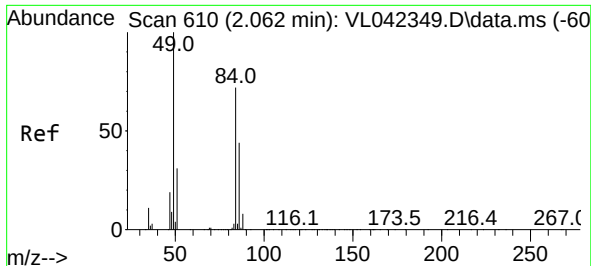
Tgt Ion: 45 Resp: 4184

Ion Ratio Lower Upper

45 100

58 808.7 34.5 51.7#

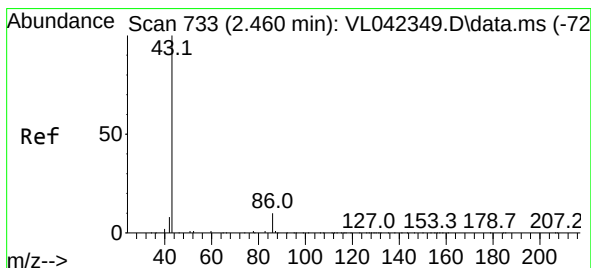
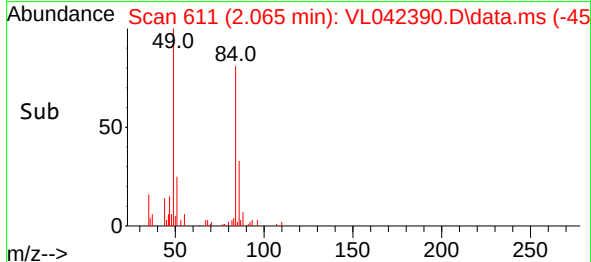
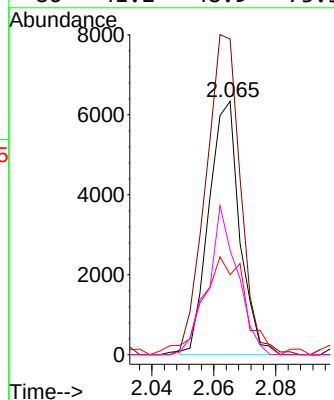
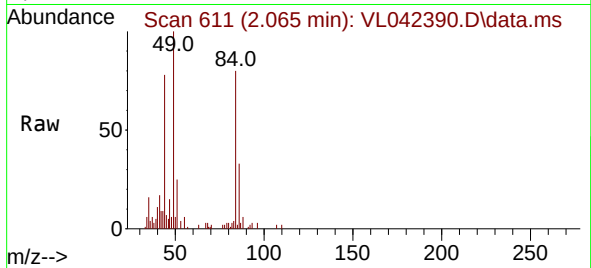




#20
Methylene Chloride
Concen: 0.536 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.003 min
Lab File: VL042390.D
Acq: 18 Apr 2025 14:14

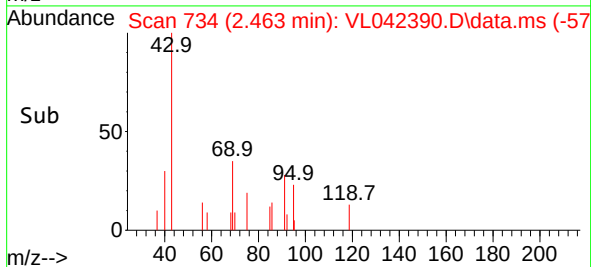
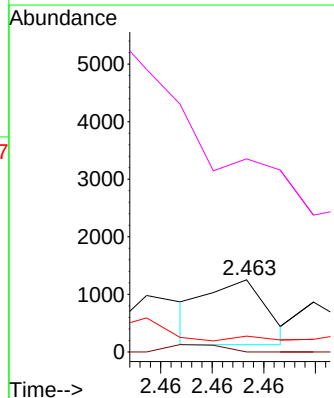
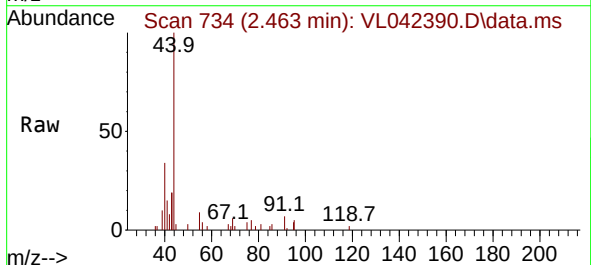
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025DL2

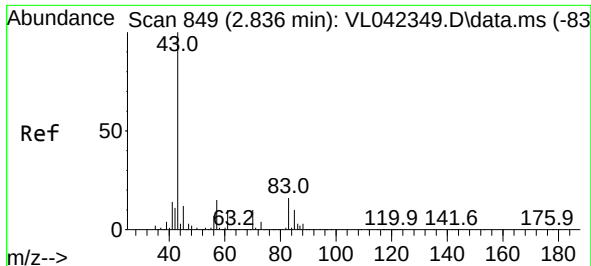
Tgt Ion:	84	Resp:	4377
Ion	Ratio	Lower	Upper
84	100		
49	123.6	111.6	167.4
51	31.6	35.1	52.7#
86	41.2	48.9	73.3#



#23
Vinyl Acetate
Concen: 0.054 ppbv
RT: 2.463 min Scan# 734
Delta R.T. 0.003 min
Lab File: VL042390.D
Acq: 18 Apr 2025 14:14

Tgt Ion:	43	Resp:	455
Ion	Ratio	Lower	Upper
43	100		
86	0.0	6.5	9.7#
42	2.6	7.8	11.8#
44	19.1	5.0	7.6#





#25

Ethyl Acetate

Concen: 0.060 ppbv

RT: 2.829 min Scan# 847

Delta R.T. -0.006 min

Lab File: VL042390.D

Acq: 18 Apr 2025 14:14

Instrument :

MSVOA_L

ClientSampleId :

IA-B2-2-03312025DL2

Tgt Ion: 43 Resp: 3091

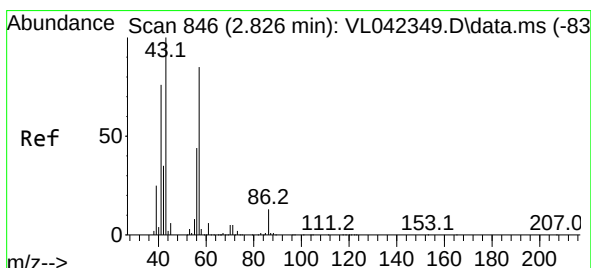
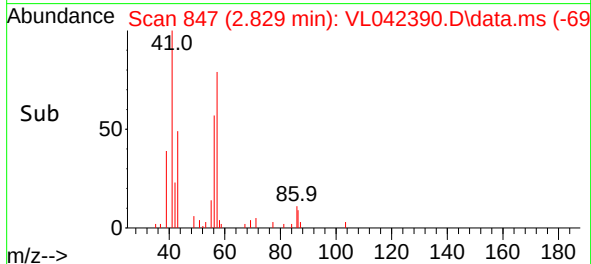
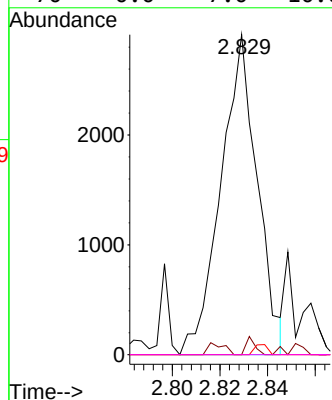
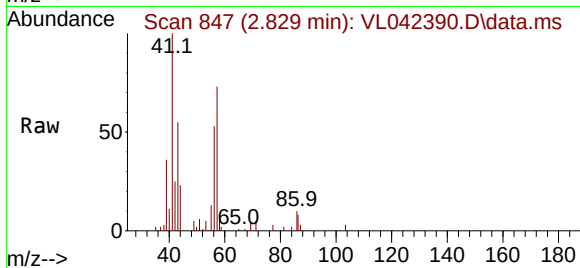
Ion Ratio Lower Upper

43 100

45 0.0 8.3 12.5#

61 0.0 7.3 10.9#

70 0.0 7.0 10.6#



#26

Hexane

Concen: 0.224 ppbv

RT: 2.832 min Scan# 848

Delta R.T. 0.007 min

Lab File: VL042390.D

Acq: 18 Apr 2025 14:14

Tgt Ion: 57 Resp: 4666

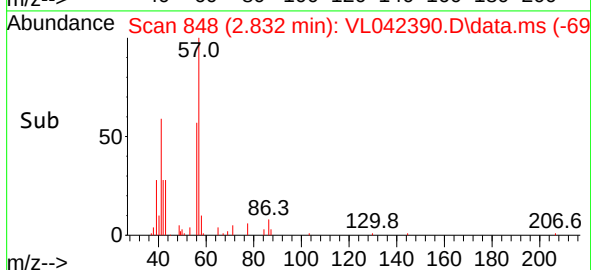
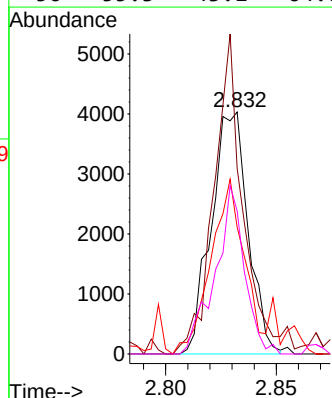
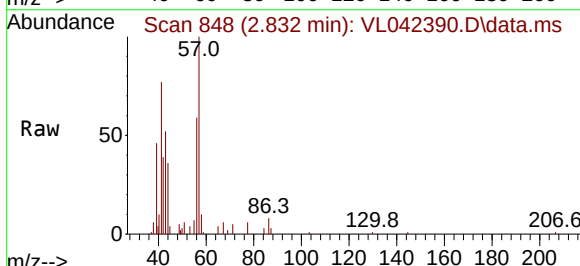
Ion Ratio Lower Upper

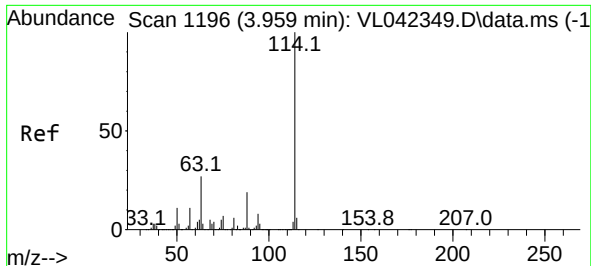
57 100

41 114.9 77.9 116.9

43 78.0 208.4 312.6#

56 55.3 43.1 64.7





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. 0.003 min

Lab File: VL042390.D

Acq: 18 Apr 2025 14:14

Instrument :

MSVOA_L

ClientSampleId :

IA-B2-2-03312025DL2

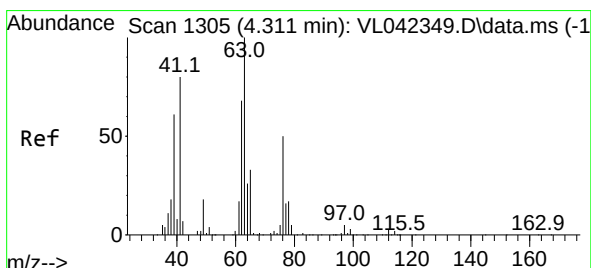
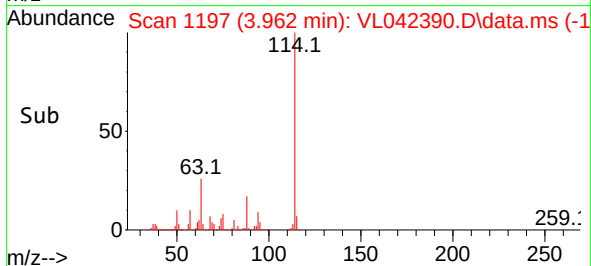
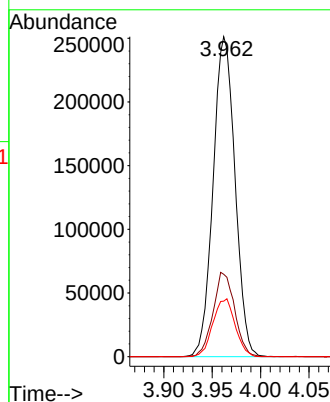
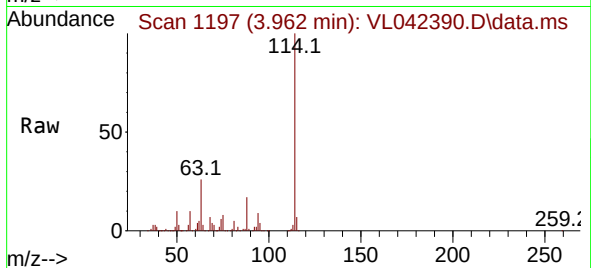
Tgt Ion:114 Resp: 395389

Ion Ratio Lower Upper

114 100

63 26.0 21.8 32.6

88 18.4 15.5 23.3



#39

1,2-Dichloropropane

Concen: 6.419 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. -0.353 min

Lab File: VL042390.D

Acq: 18 Apr 2025 14:14

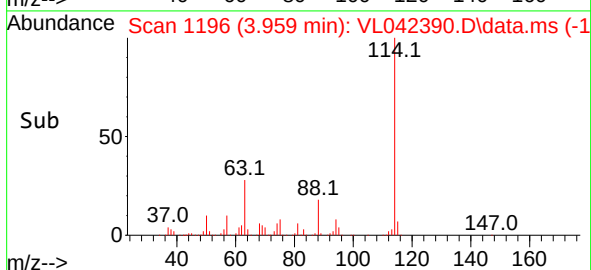
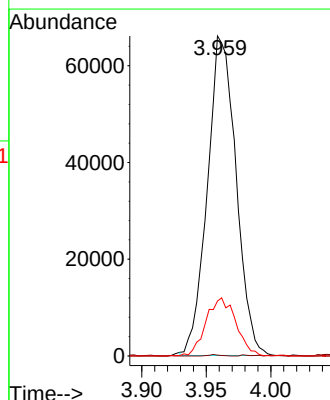
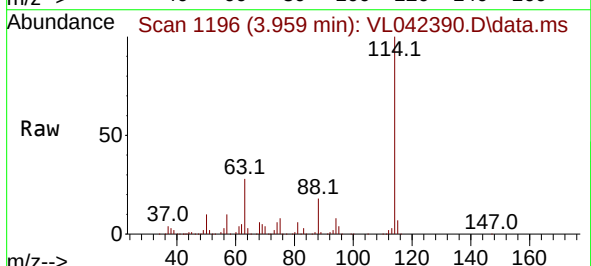
Tgt Ion: 63 Resp: 102018

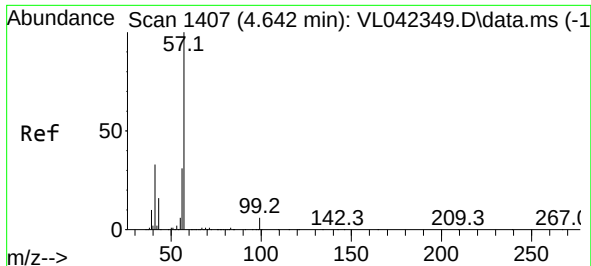
Ion Ratio Lower Upper

63 100

41 0.3 64.2 96.2#

62 17.0 54.3 81.5#

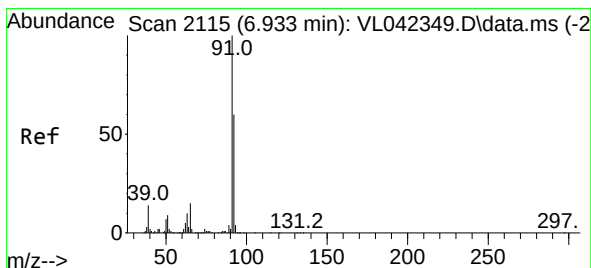
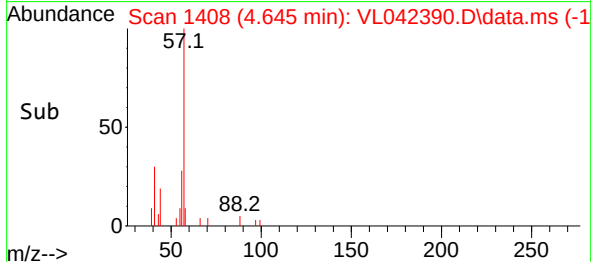
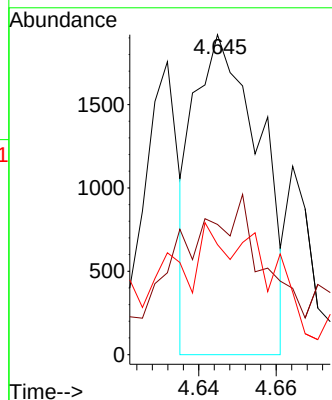
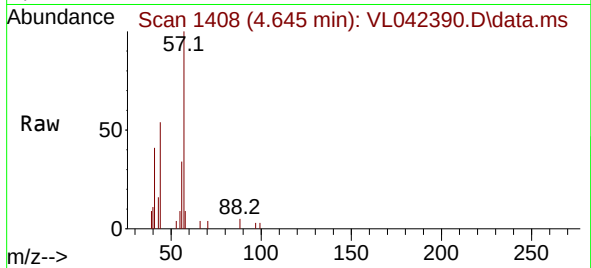




#44
 2,2,4-Trimethylpentane
 Concen: 0.031 ppbv
 RT: 4.645 min Scan# 1408
 Delta R.T. 0.003 min
 Lab File: VL042390.D
 Acq: 18 Apr 2025 14:14

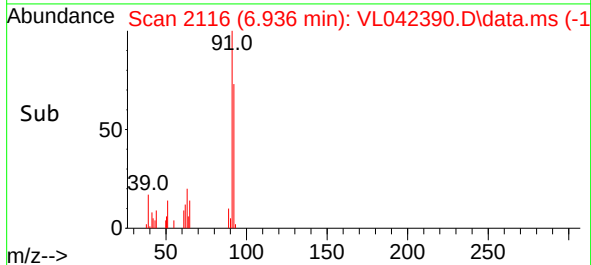
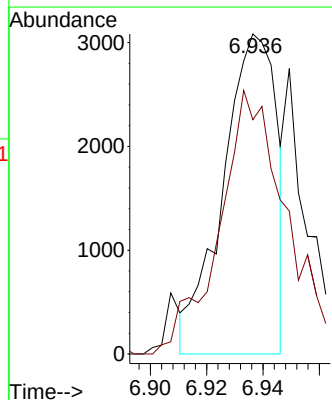
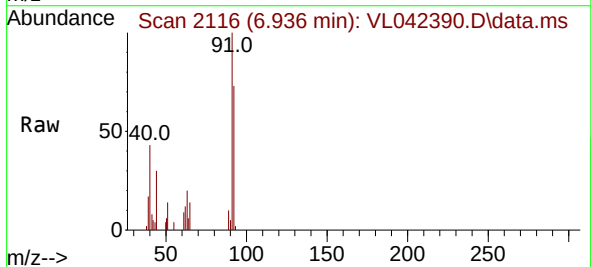
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-2-03312025DL2

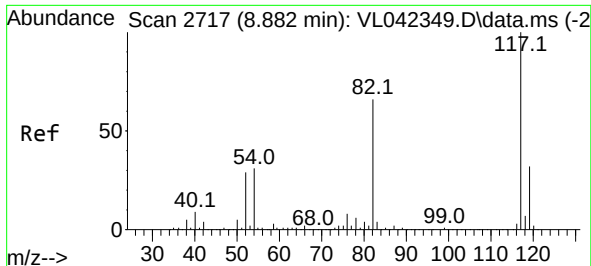
Tgt Ion: 57 Resp: 2268
 Ion Ratio Lower Upper
 57 100
 41 83.2 27.2 40.8#
 56 83.0 25.7 38.5#



#53
 Toluene
 Concen: 0.080 ppbv
 RT: 6.936 min Scan# 2116
 Delta R.T. 0.003 min
 Lab File: VL042390.D
 Acq: 18 Apr 2025 14:14

Tgt Ion: 91 Resp: 4094
 Ion Ratio Lower Upper
 91 100
 92 103.5 48.2 72.4#

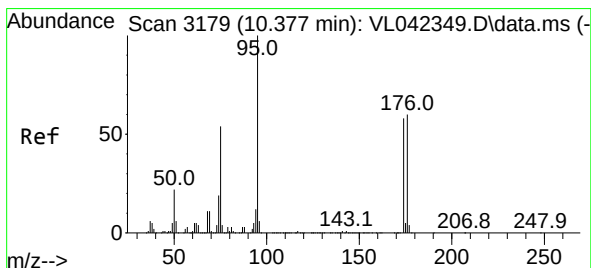
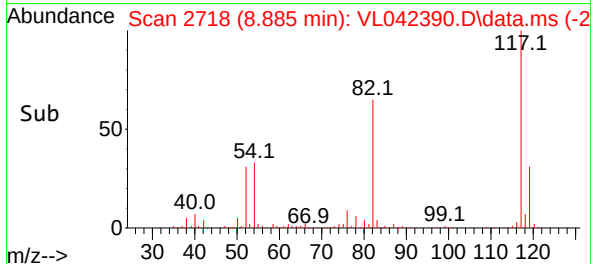
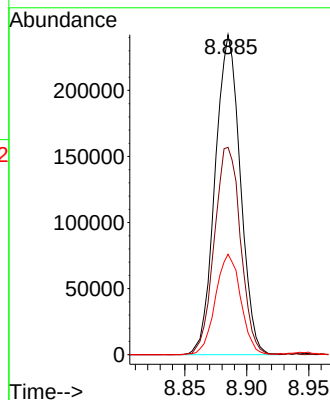
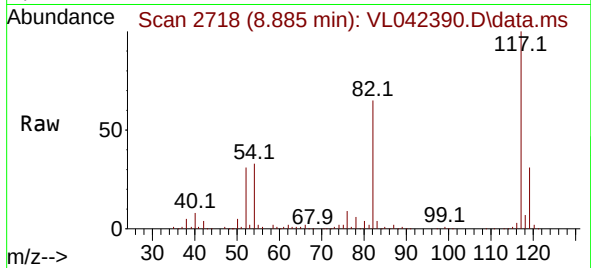




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042390.D
Acq: 18 Apr 2025 14:14

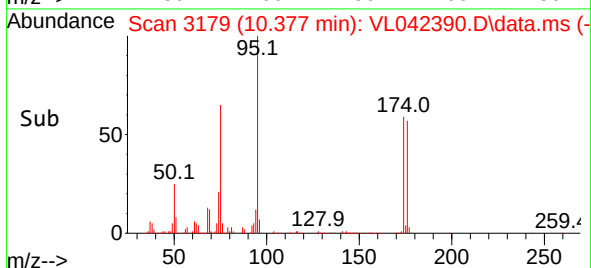
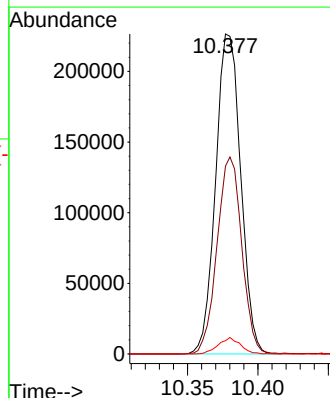
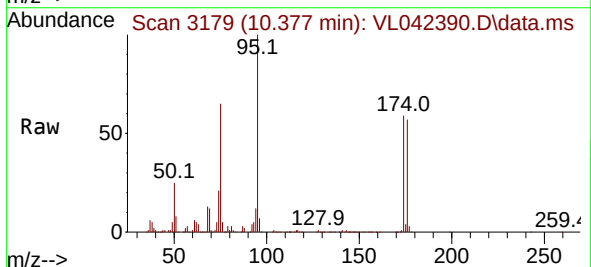
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-03312025DL2

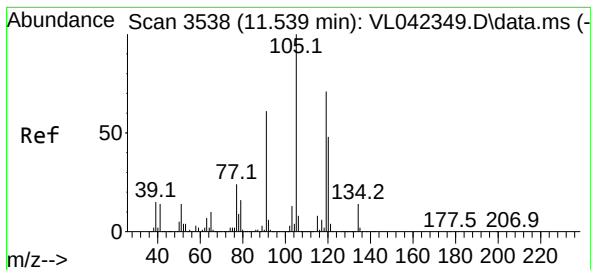
Tgt Ion:117 Resp: 342875
Ion Ratio Lower Upper
117 100
82 67.7 57.8 86.6
119 31.6 25.2 37.8



#68
1-Bromo-4-Fluorobenzene
Concen: 9.987 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.000 min
Lab File: VL042390.D
Acq: 18 Apr 2025 14:14

Tgt Ion: 95 Resp: 281379
Ion Ratio Lower Upper
95 100
174 60.5 48.5 72.7
175 4.5 3.7 5.5





#74

1,2,4-Trimethylbenzene

Concen: 0.053 ppbv

RT: 11.542 min Scan# 3

Delta R.T. 0.003 min

Lab File: VL042390.D

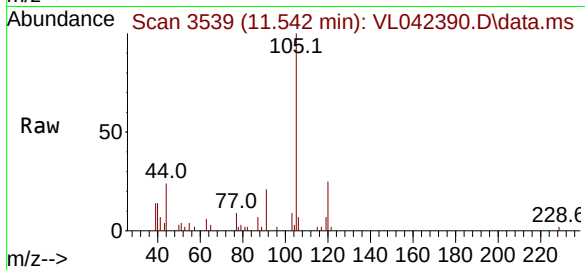
Acq: 18 Apr 2025 14:14

Instrument :

MSVOA_L

ClientSampleId :

IA-B2-2-03312025DL2



Tgt Ion:105 Resp: 3706

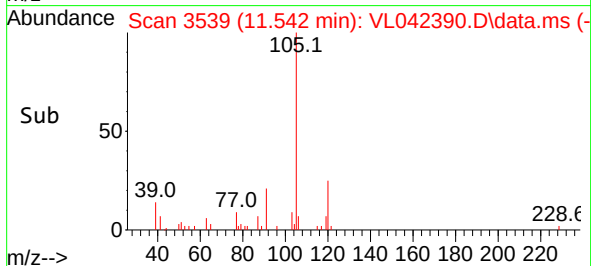
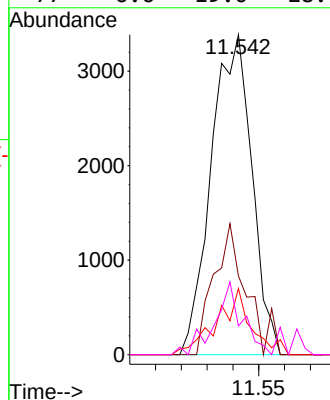
Ion Ratio Lower Upper

105 100

120 24.6 38.1 57.1#

91 18.9 48.8 73.2#

77 6.6 19.0 28.4#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
 Data File : VL042391.D
 Acq On : 18 Apr 2025 14:45
 Operator : SY/MD
 Sample : Q1726-05DL2 100X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-1-03312025DL2

Quant Time: Apr 18 22:59:44 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)

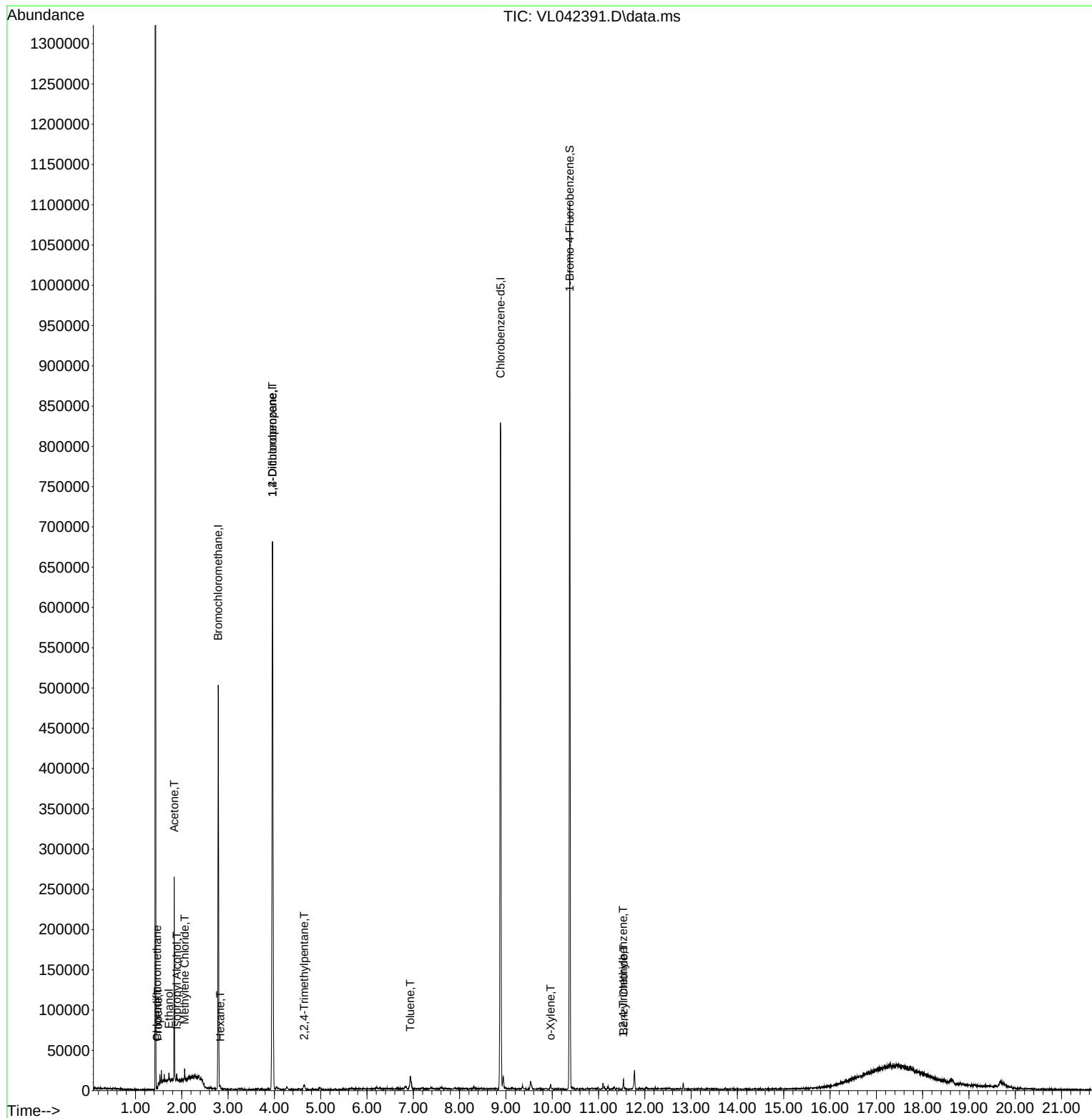
Internal Standards						
1) Bromochloromethane	2.787	49	125703	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	390416	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	327579	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	273896	10.175	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.700%
Target Compounds						
					Qvalue	
3) Chlorodifluoromethane	1.466	51	721	0.034	ppbv #	90
9) Propene	1.486	41	476	0.049	ppbv #	15
13) Ethanol	1.722	45	3027	1.977	ppbv #	24
15) Acetone	1.835	43	104075	5.058	ppbv	99
19) Isopropyl Alcohol	1.890	45	3377	0.295	ppbv #	1
20) Methylene Chloride	2.062	84	1951	0.242	ppbv	93
26) Hexane	2.829	57	781	0.038	ppbv #	68
39) 1,2-Dichloropropane	3.959	63	101075	6.441	ppbv #	22
44) 2,2,4-Trimethylpentane	4.645	57	5432	0.075	ppbv #	79
53) Toluene	6.936	91	8344	0.165	ppbv #	84
60) o-Xylene	9.966	91	2871	0.055	ppbv	97
66) Benzyl Chloride	11.539	91	491	0.063	ppbv #	78
74) 1,2,4-Trimethylbenzene	11.532	105	2488	0.037	ppbv #	62

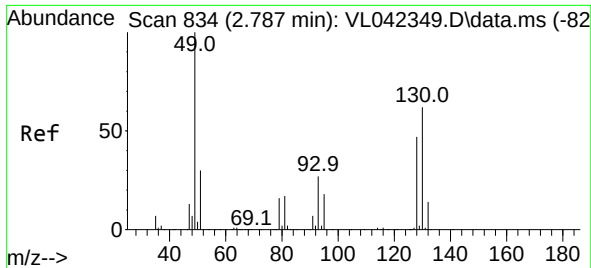
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
Data File : VL042391.D
Acq On : 18 Apr 2025 14:45
Operator : SY/MD
Sample : Q1726-05DL2 100X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025DL2

Quant Time: Apr 18 22:59:44 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

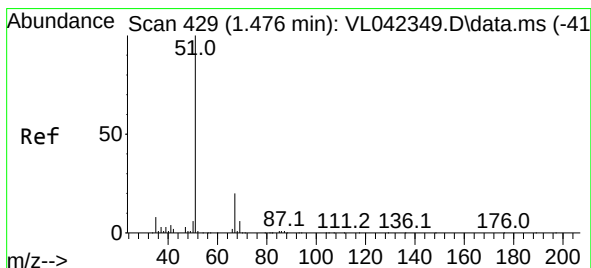
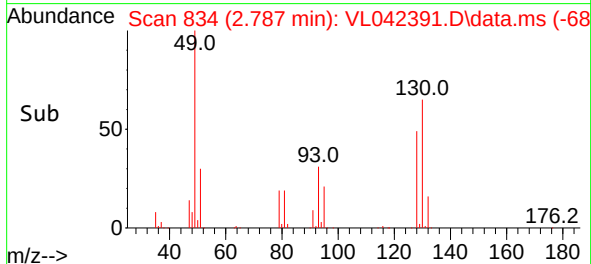
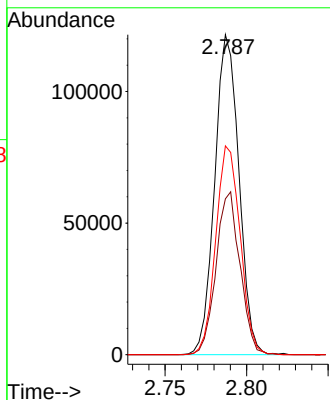
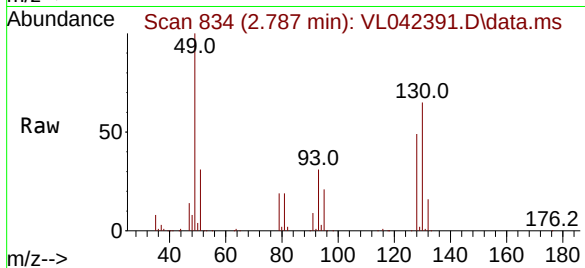




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL042391.D
Acq: 18 Apr 2025 14:45

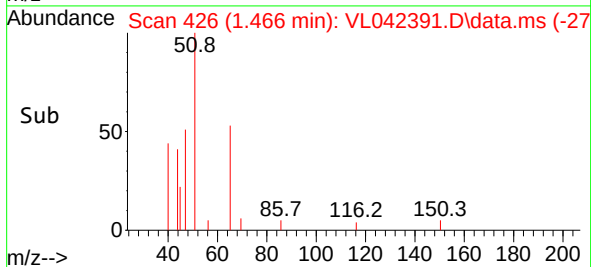
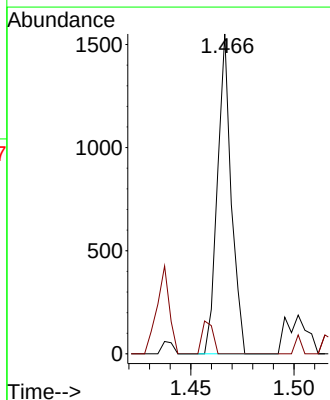
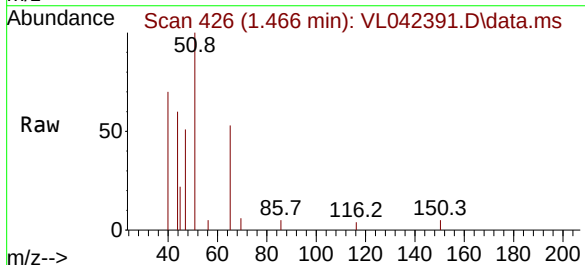
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025DL2

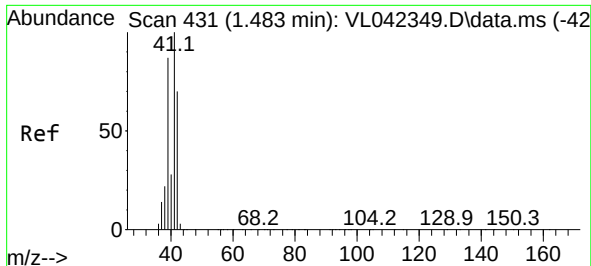
Tgt Ion: 49 Resp: 125703
Ion Ratio Lower Upper
49 100
128 50.5 22.8 68.4
130 65.7 29.3 88.0



#3
Chlorodifluoromethane
Concen: 0.034 ppbv
RT: 1.466 min Scan# 426
Delta R.T. -0.010 min
Lab File: VL042391.D
Acq: 18 Apr 2025 14:45

Tgt Ion: 51 Resp: 721
Ion Ratio Lower Upper
51 100
67 25.1 16.2 24.4#





#9

Propene

Concen: 0.049 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042391.D

Acq: 18 Apr 2025 14:45

Instrument :

MSVOA_L

ClientSampleId :

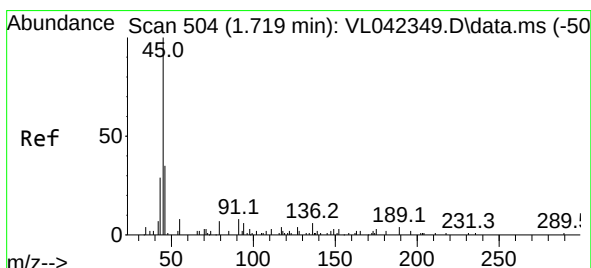
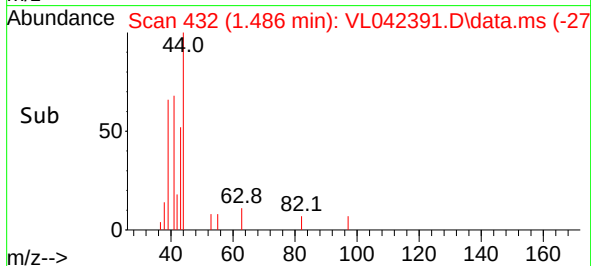
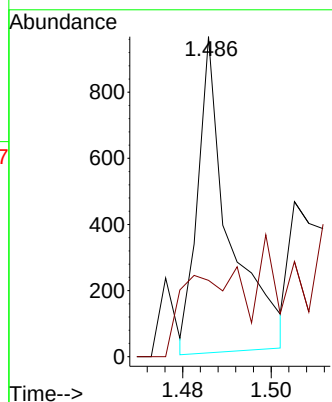
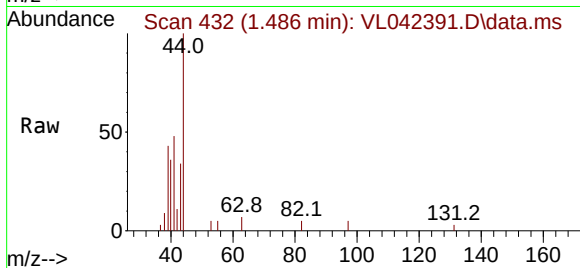
IA-B2-1-03312025DL2

Tgt Ion: 41 Resp: 476

Ion Ratio Lower Upper

41 100

42 0.0 56.2 84.4#



#13

Ethanol

Concen: 1.977 ppbv

RT: 1.722 min Scan# 505

Delta R.T. 0.003 min

Lab File: VL042391.D

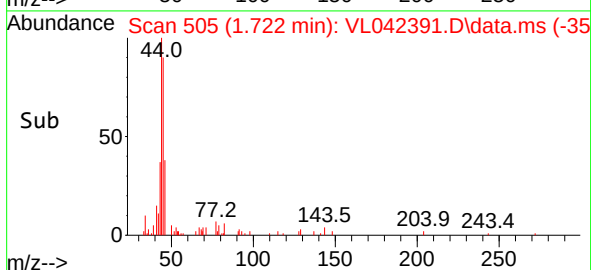
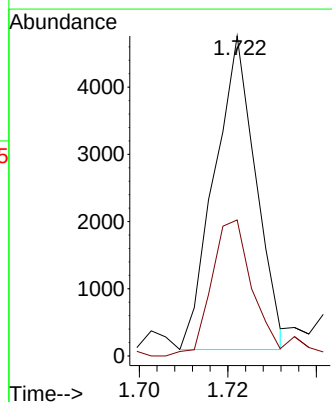
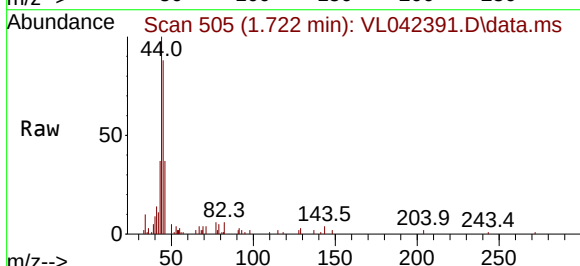
Acq: 18 Apr 2025 14:45

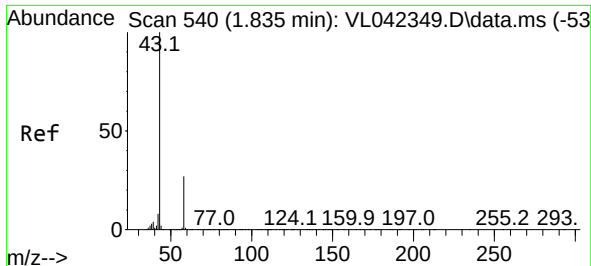
Tgt Ion: 45 Resp: 3027

Ion Ratio Lower Upper

45 100

46 0.0 21.9 87.7#

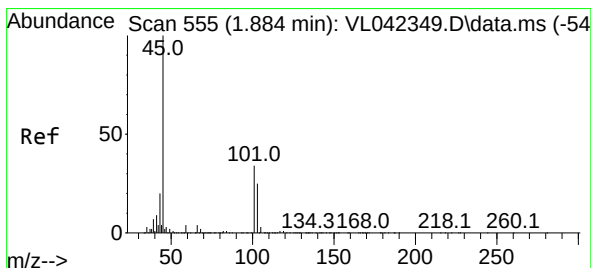
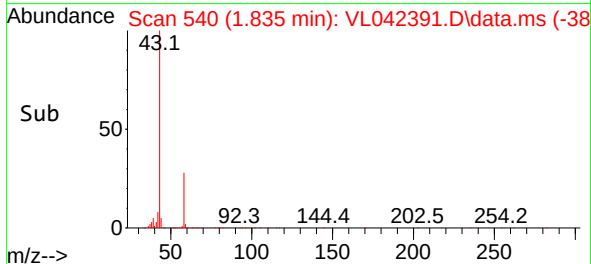
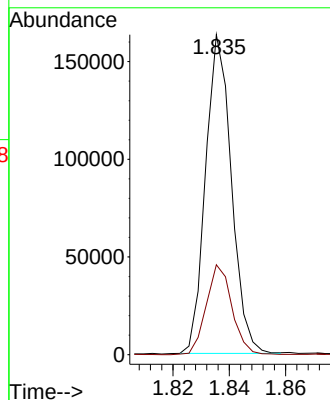
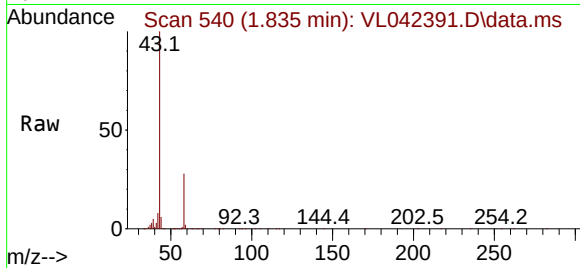




#15
Acetone
Concen: 5.058 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042391.D
Acq: 18 Apr 2025 14:45

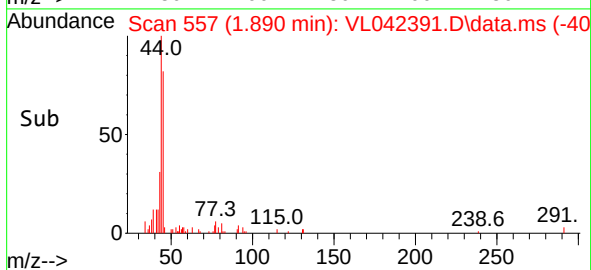
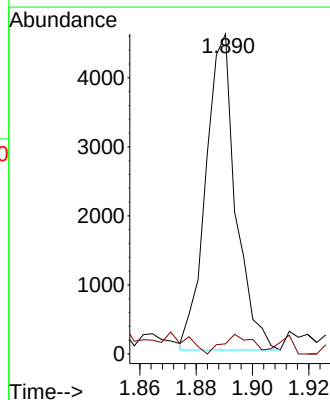
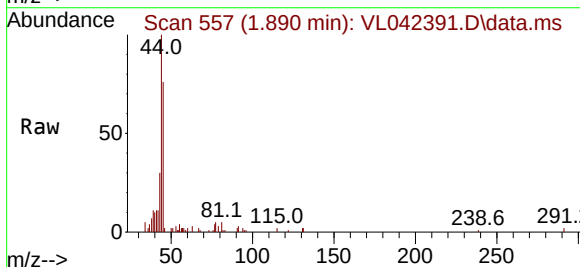
Instrument : MSVOA_1
ClientSampleId : IA-B2-1-03312025DL2

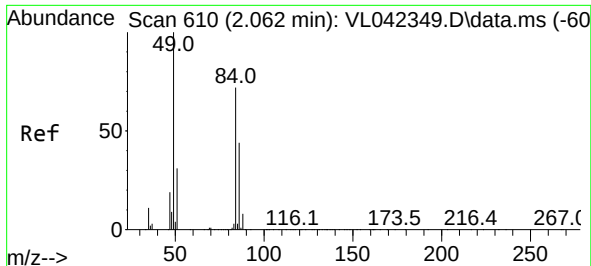
Tgt Ion: 43 Resp: 104075
Ion Ratio Lower Upper
43 100
58 28.5 22.4 33.6



#19
Isopropyl Alcohol
Concen: 0.295 ppbv
RT: 1.890 min Scan# 557
Delta R.T. 0.006 min
Lab File: VL042391.D
Acq: 18 Apr 2025 14:45

Tgt Ion: 45 Resp: 3377
Ion Ratio Lower Upper
45 100
58 879.1 34.5 51.7#

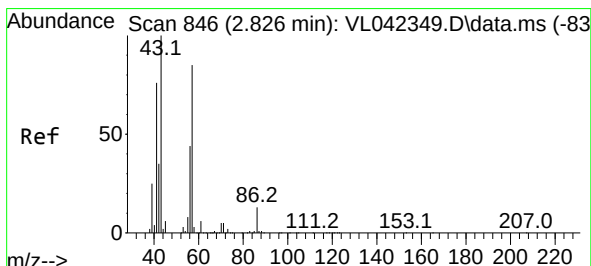
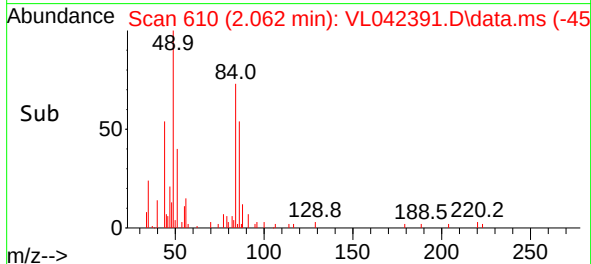
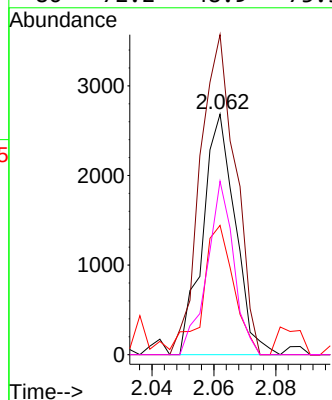
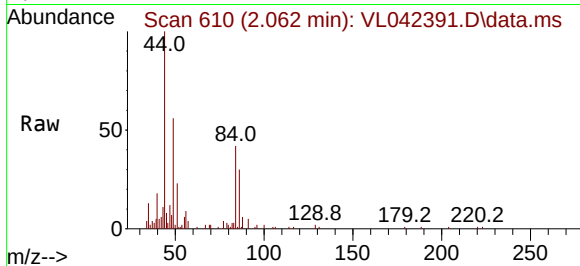




#20
Methylene Chloride
Concen: 0.242 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042391.D
Acq: 18 Apr 2025 14:45

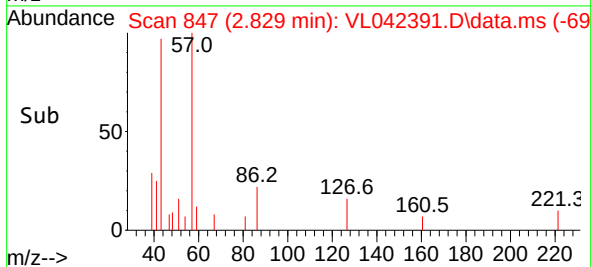
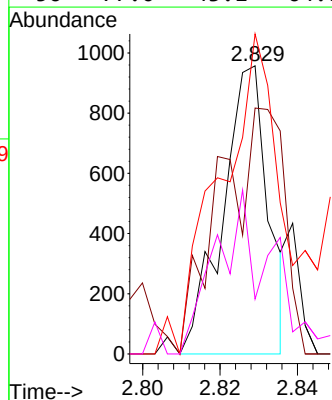
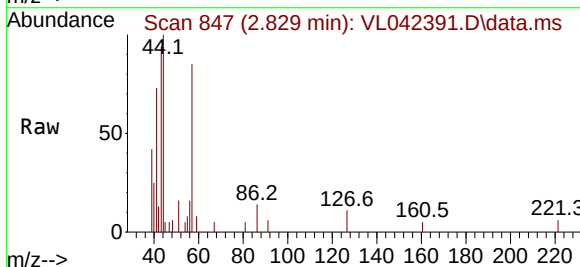
Instrument :
MSVOA_1
ClientSampleId :
IA-B2-1-03312025DL2

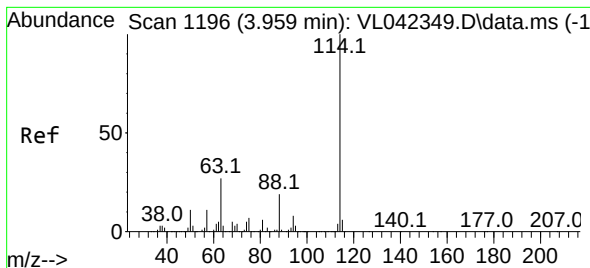
Tgt Ion: 84	Resp:	1951	
Ion	Ratio	Lower	Upper
84	100		
49	133.1	111.6	167.4
51	44.2	35.1	52.7
86	72.2	48.9	73.3



#26
Hexane
Concen: 0.038 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.003 min
Lab File: VL042391.D
Acq: 18 Apr 2025 14:45

Tgt Ion: 57	Resp:	781	
Ion	Ratio	Lower	Upper
57	100		
41	135.7	77.9	116.9#
43	208.5	208.4	312.6
56	77.0	43.1	64.7#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. 0.000 min

Lab File: VL042391.D

Acq: 18 Apr 2025 14:45

Instrument :

MSVOA_L

ClientSampleId :

IA-B2-1-03312025DL2

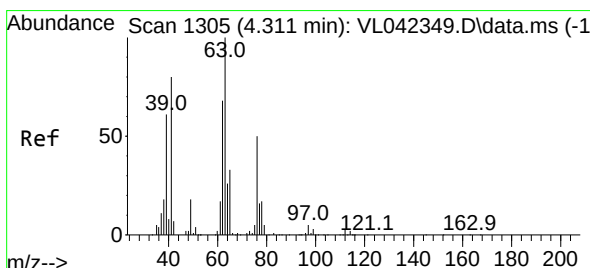
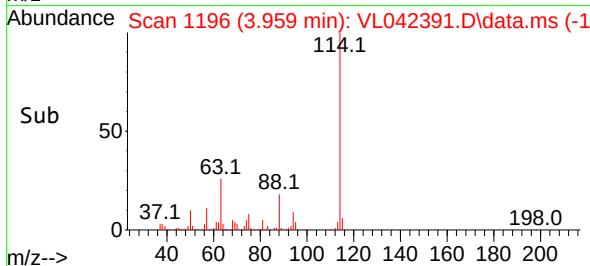
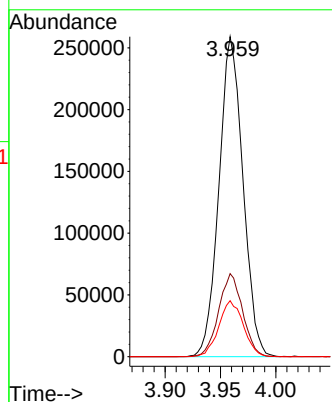
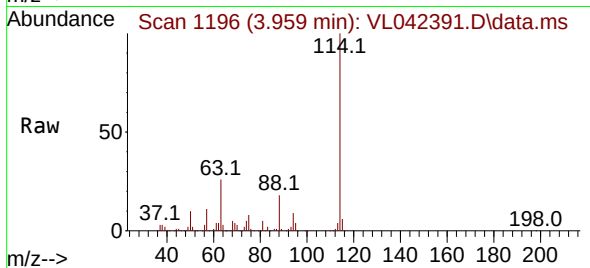
Tgt Ion:114 Resp: 390416

Ion Ratio Lower Upper

114 100

63 25.9 21.8 32.6

88 17.9 15.5 23.3



#39

1,2-Dichloropropane

Concen: 6.441 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. -0.353 min

Lab File: VL042391.D

Acq: 18 Apr 2025 14:45

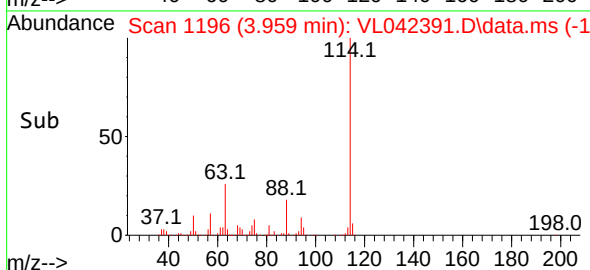
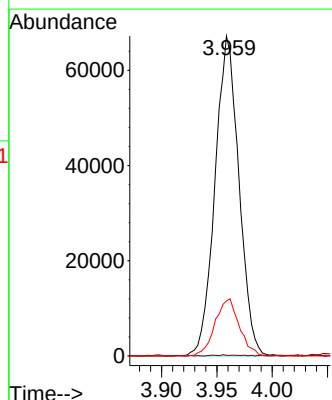
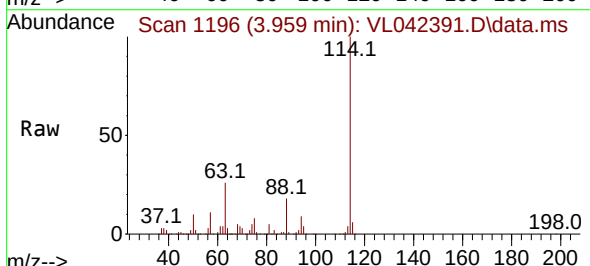
Tgt Ion: 63 Resp: 101075

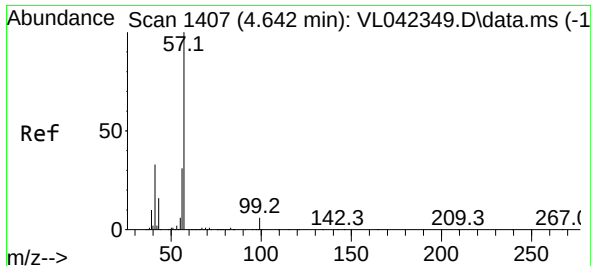
Ion Ratio Lower Upper

63 100

41 0.0 64.2 96.2#

62 17.2 54.3 81.5#

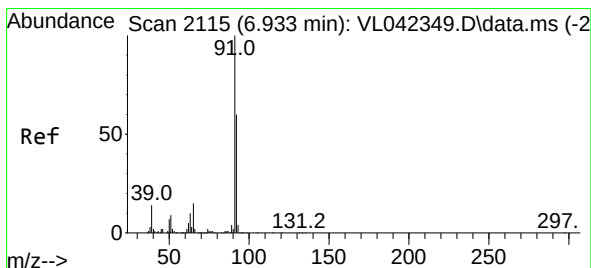
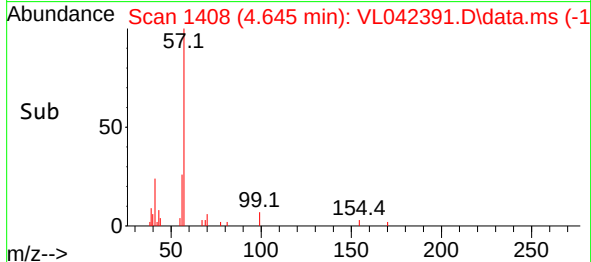
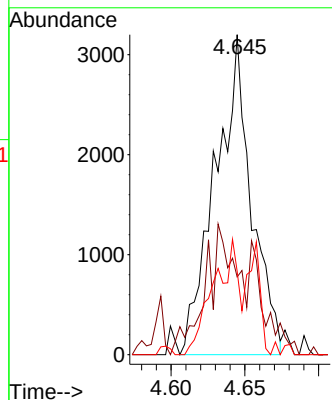
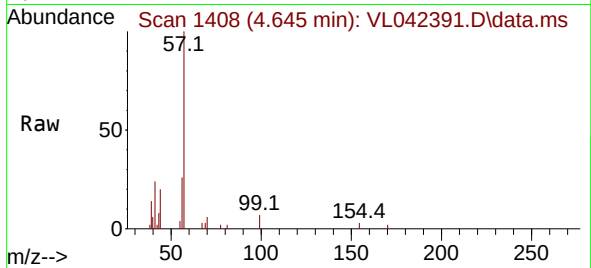




#44
 2,2,4-Trimethylpentane
 Concen: 0.075 ppbv
 RT: 4.645 min Scan# 1408
 Delta R.T. 0.003 min
 Lab File: VL042391.D
 Acq: 18 Apr 2025 14:45

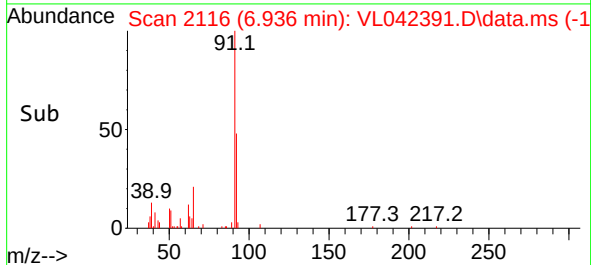
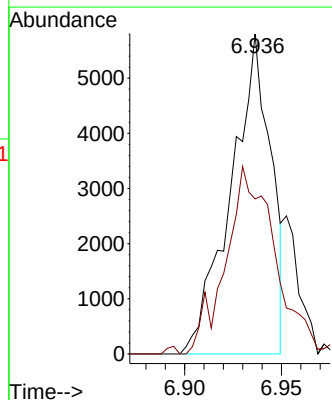
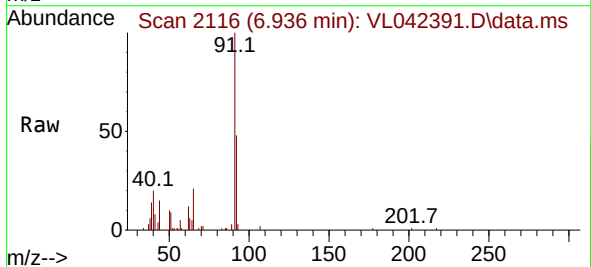
Instrument :
 MSVOA_1
 ClientSampleId :
 IA-B2-1-03312025DL2

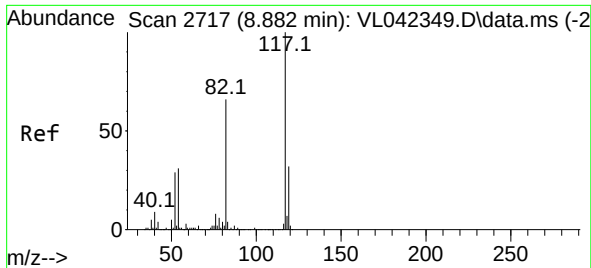
Tgt Ion: 57 Resp: 5432
 Ion Ratio Lower Upper
 57 100
 41 51.0 27.2 40.8#
 56 39.2 25.7 38.5#



#53
 Toluene
 Concen: 0.165 ppbv
 RT: 6.936 min Scan# 2116
 Delta R.T. 0.003 min
 Lab File: VL042391.D
 Acq: 18 Apr 2025 14:45

Tgt Ion: 91 Resp: 8344
 Ion Ratio Lower Upper
 91 100
 92 72.7 48.2 72.4#

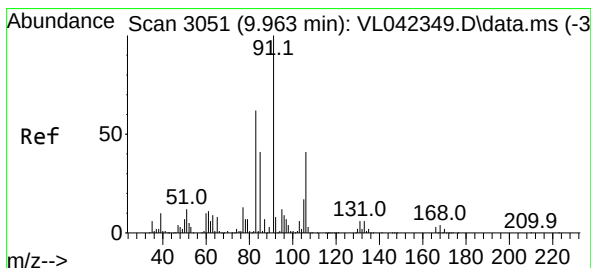
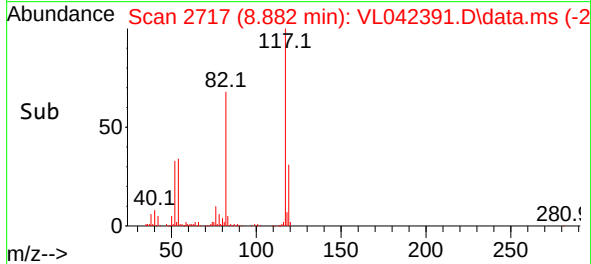
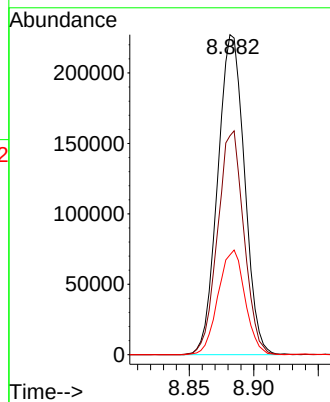
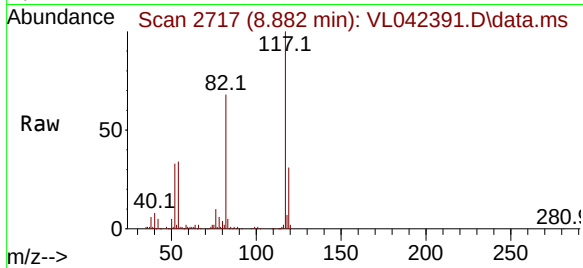




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042391.D
Acq: 18 Apr 2025 14:45

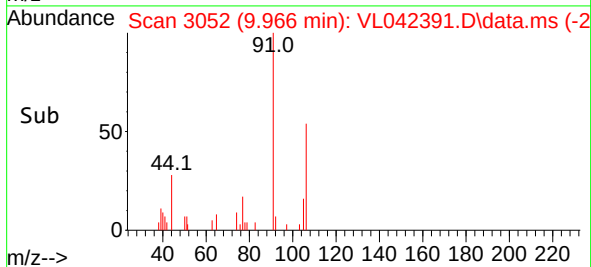
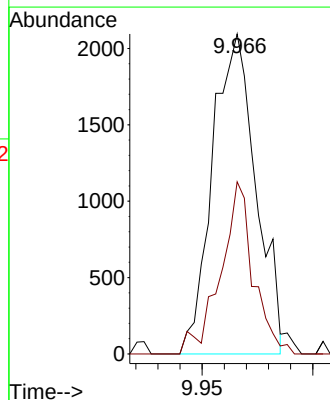
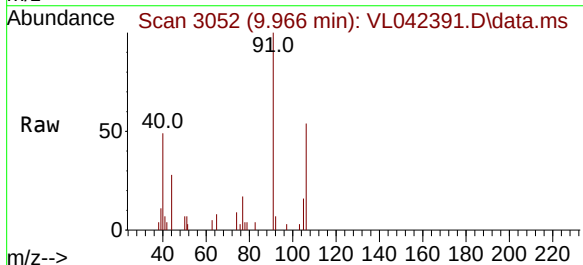
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025DL2

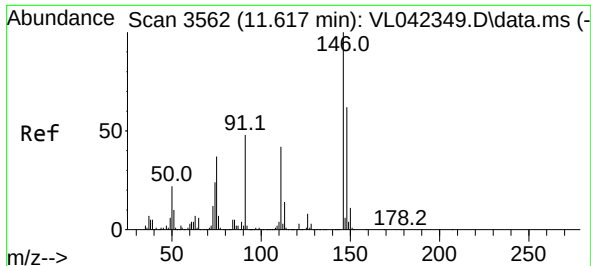
Tgt Ion:	117	Resp:	327579
Ion	Ratio	Lower	Upper
117	100		
82	68.9	57.8	86.6
119	32.8	25.2	37.8



#60
o-Xylene
Concen: 0.055 ppbv
RT: 9.966 min Scan# 3052
Delta R.T. 0.003 min
Lab File: VL042391.D
Acq: 18 Apr 2025 14:45

Tgt Ion:	91	Resp:	2871
Ion	Ratio	Lower	Upper
91	100		
106	40.3	21.1	63.4

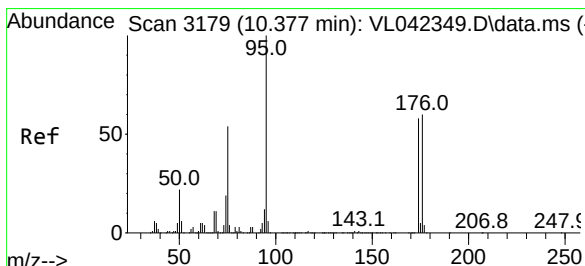
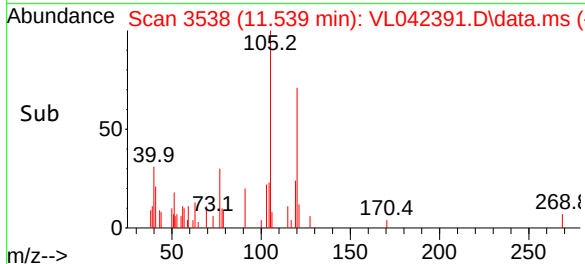
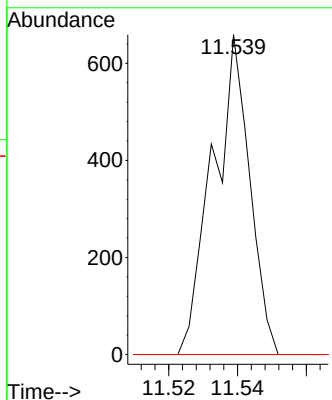
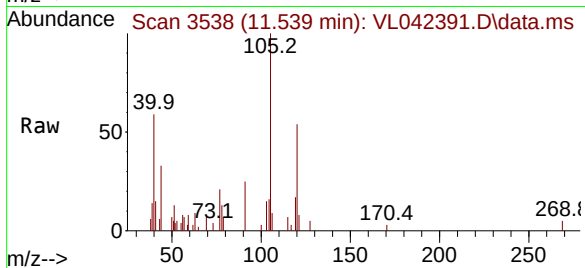




#66
Benzyl Chloride
Concen: 0.063 ppbv
RT: 11.539 min Scan# 311
Delta R.T. -0.078 min
Lab File: VL042391.D
Acq: 18 Apr 2025 14:45

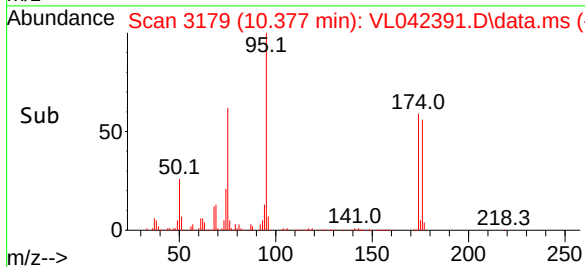
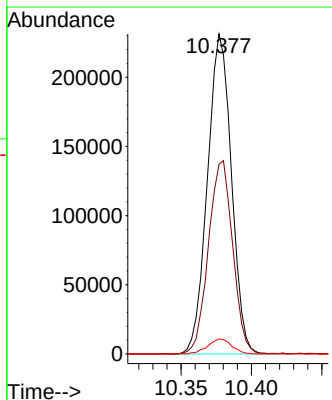
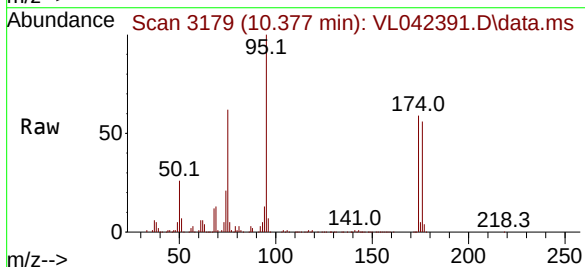
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-1-03312025DL2

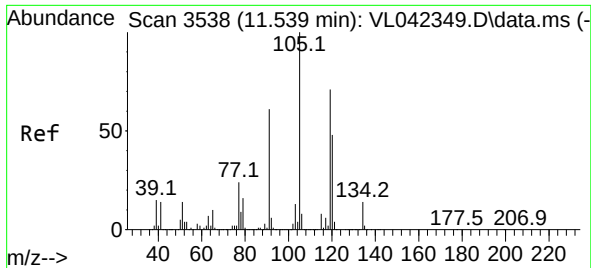
Tgt Ion: 91 Resp: 491
Ion Ratio Lower Upper
91 100
126 4.7 11.8 17.6#
128 0.0 4.5 6.7#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.175 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.000 min
Lab File: VL042391.D
Acq: 18 Apr 2025 14:45

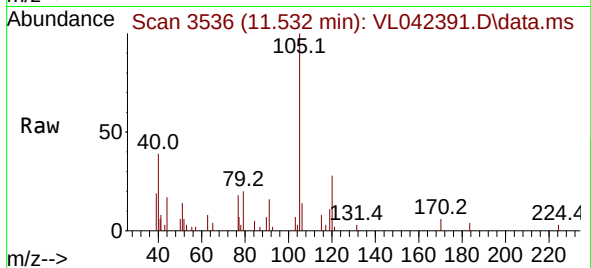
Tgt Ion: 95 Resp: 273896
Ion Ratio Lower Upper
95 100
174 61.3 48.5 72.7
175 4.7 3.7 5.5



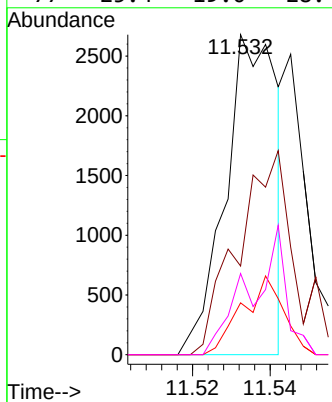
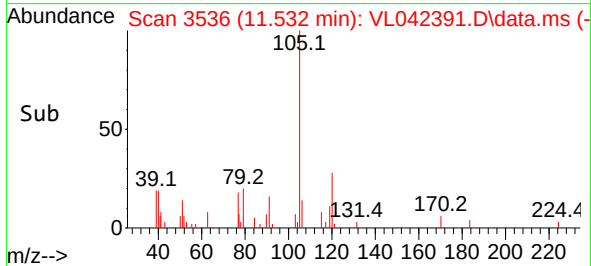


#74
 1,2,4-Trimethylbenzene
 Concen: 0.037 ppbv
 RT: 11.532 min Scan# 31
 Delta R.T. -0.006 min
 Lab File: VL042391.D
 Acq: 18 Apr 2025 14:45

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-1-03312025DL2



Tgt Ion:	105	Resp:	2488
Ion	Ratio	Lower	Upper
105	100		
120	27.7	38.1	57.1#
91	16.2	48.8	73.2#
77	25.4	19.0	28.4



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
 Data File : VL042392.D
 Acq On : 18 Apr 2025 15:16
 Operator : SY/MD
 Sample : Q1726-06DL2 100X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-3-03312025DL2

Quant Time: Apr 18 23:00:07 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)

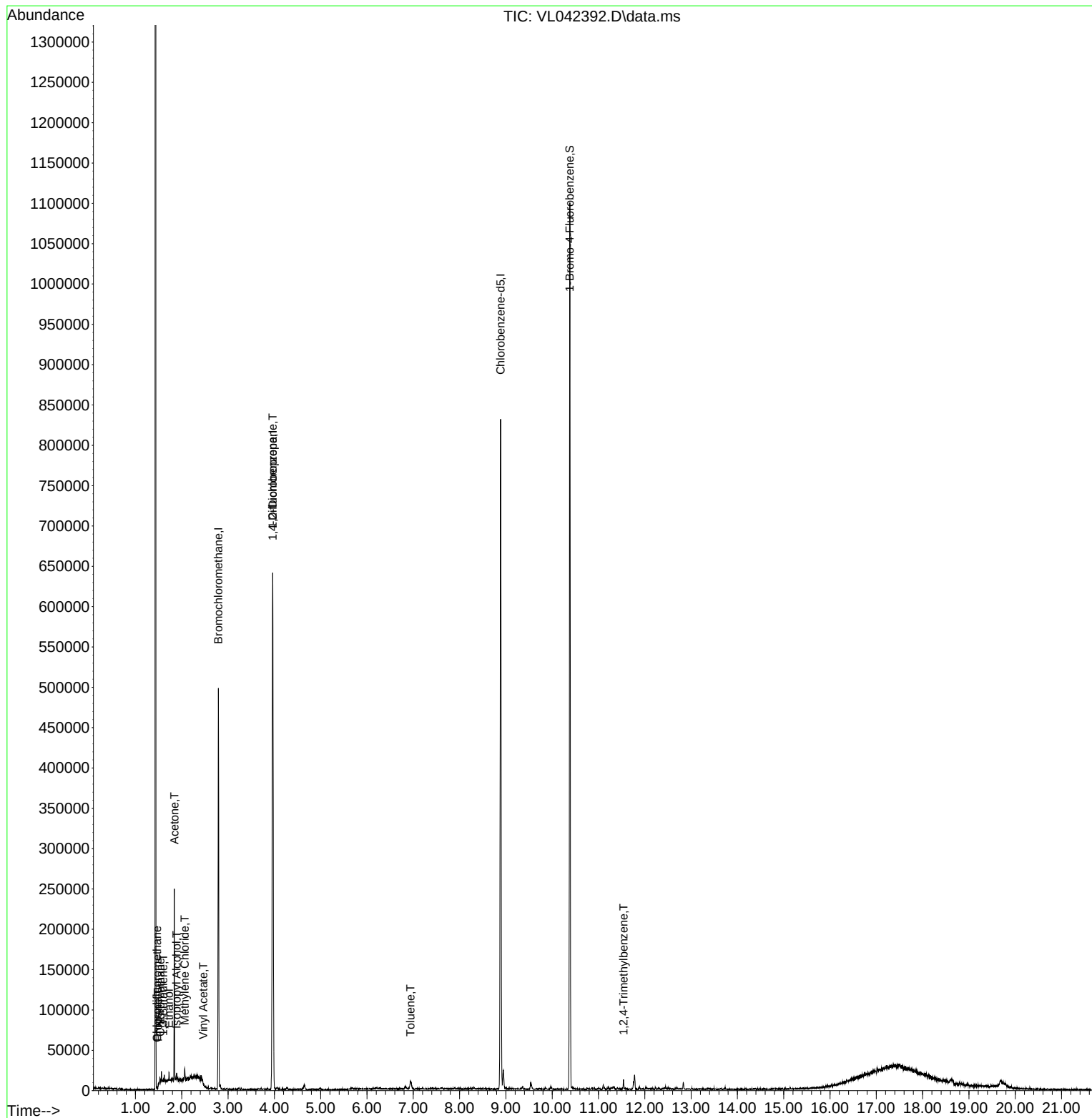
Internal Standards						
1) Bromochloromethane	2.791	49	121646	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.966	114	379829	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	325040	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.381	95	267080	9.999	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.000%
Target Compounds						
					Qvalue	
3) Chlorodifluoromethane	1.467	51	950	0.046	ppbv #	76
4) Chloromethane	1.535	50	307	0.036	ppbv #	52
9) Propene	1.486	41	348	0.037	ppbv #	15
13) Ethanol	1.723	45	4246	2.866	ppbv #	24
15) Acetone	1.839	43	102862	5.165	ppbv	98
16) 1,3-Butadiene	1.603	39	411	0.043	ppbv #	9
19) Isopropyl Alcohol	1.888	45	3881	0.351	ppbv #	1
20) Methylene Chloride	2.062	84	2263	0.290	ppbv #	84
23) Vinyl Acetate	2.464	43	503	0.062	ppbv #	1
39) 1,2-Dichloropropane	3.962	63	96830	6.343	ppbv #	22
53) Toluene	6.940	91	1886	0.038	ppbv #	1
74) 1,2,4-Trimethylbenzene	11.539	105	3442	0.052	ppbv #	71

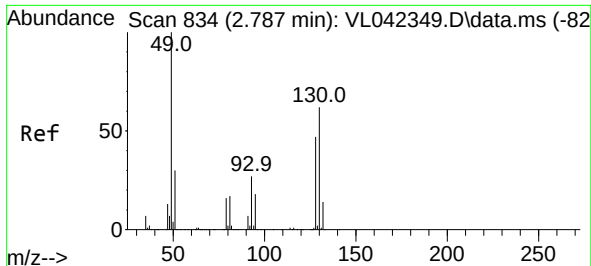
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
Data File : VL042392.D
Acq On : 18 Apr 2025 15:16
Operator : SY/MD
Sample : Q1726-06DL2 100X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL2

Quant Time: Apr 18 23:00:07 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

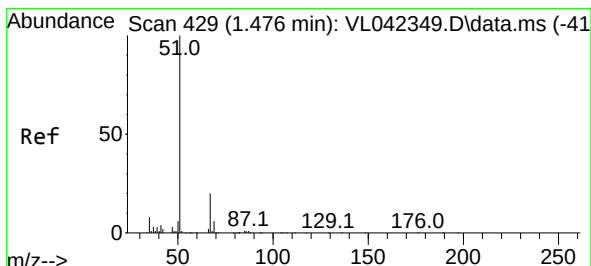
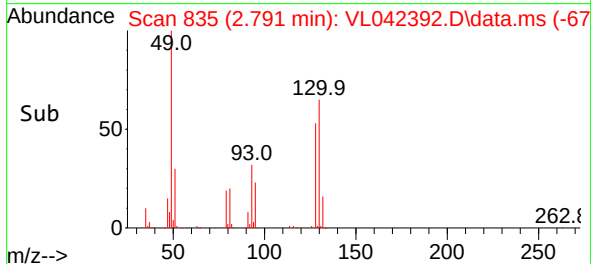
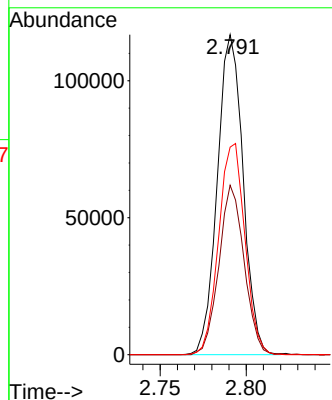
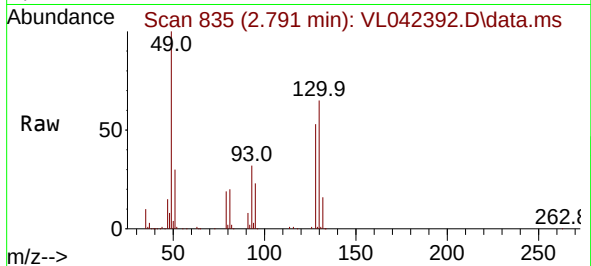




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.791 min Scan# 81
Delta R.T. 0.004 min
Lab File: VL042392.D
Acq: 18 Apr 2025 15:16

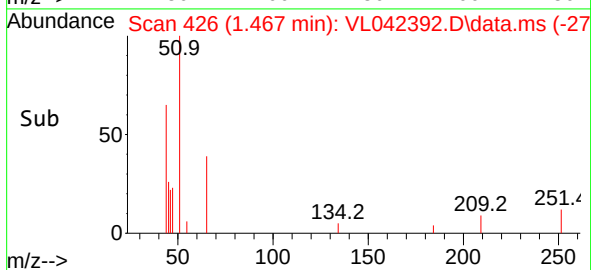
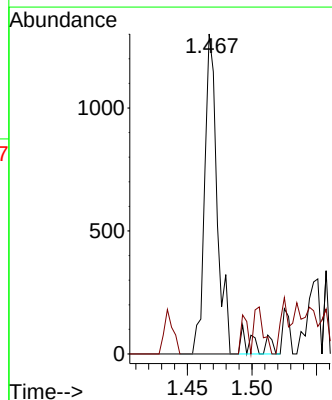
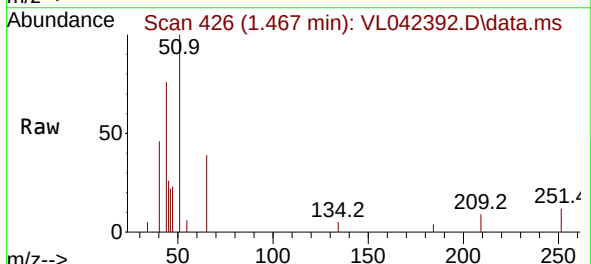
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL2

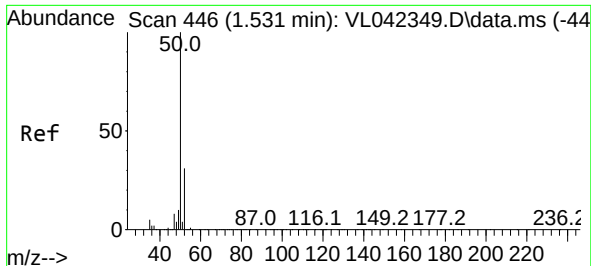
Tgt Ion: 49 Resp: 121646
Ion Ratio Lower Upper
49 100
128 51.9 22.8 68.4
130 67.3 29.3 88.0



#3
Chlorodifluoromethane
Concen: 0.046 ppbv
RT: 1.467 min Scan# 426
Delta R.T. -0.009 min
Lab File: VL042392.D
Acq: 18 Apr 2025 15:16

Tgt Ion: 51 Resp: 950
Ion Ratio Lower Upper
51 100
67 9.1 16.2 24.4#

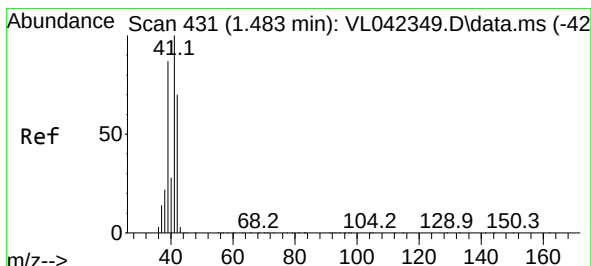
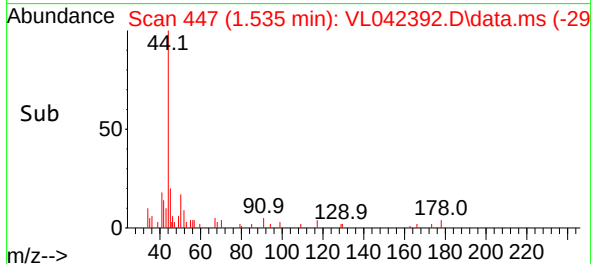
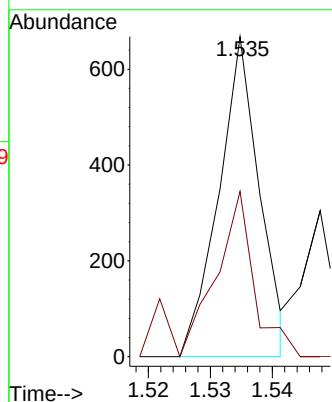
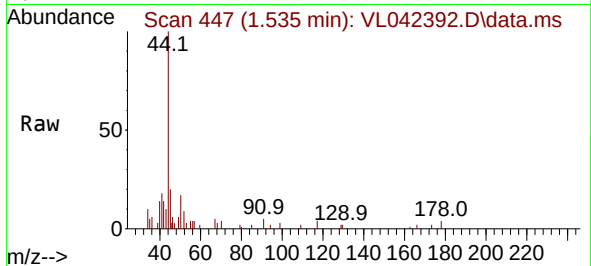




#4
Chloromethane
Concen: 0.036 ppbv
RT: 1.535 min Scan# 446
Delta R.T. 0.004 min
Lab File: VL042392.D
Acq: 18 Apr 2025 15:16

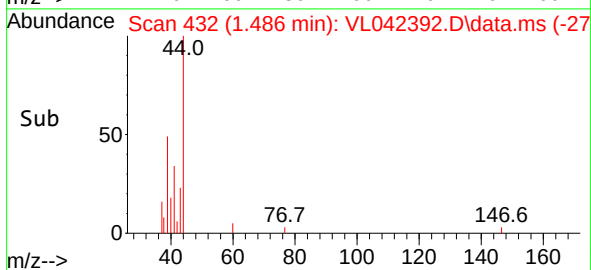
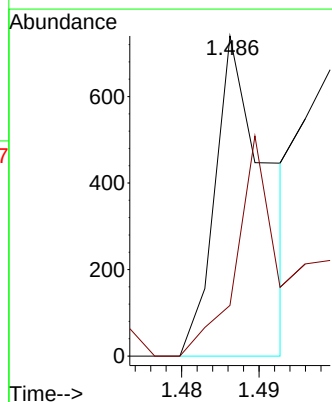
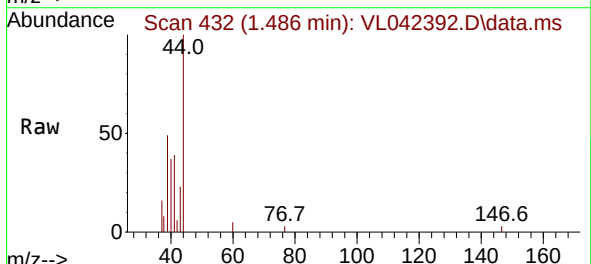
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL2

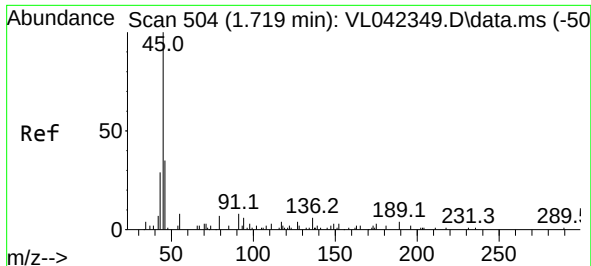
Tgt Ion: 50 Resp: 307
Ion Ratio Lower Upper
50 100
52 57.2 24.7 37.1#



#9
Propene
Concen: 0.037 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.004 min
Lab File: VL042392.D
Acq: 18 Apr 2025 15:16

Tgt Ion: 41 Resp: 348
Ion Ratio Lower Upper
41 100
42 0.0 56.2 84.4#

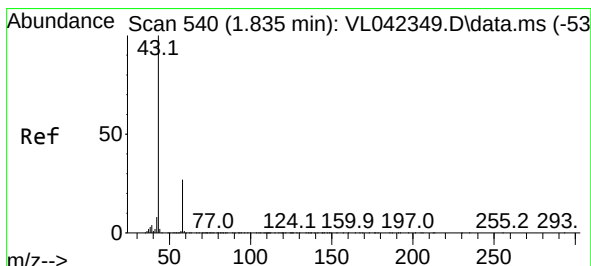
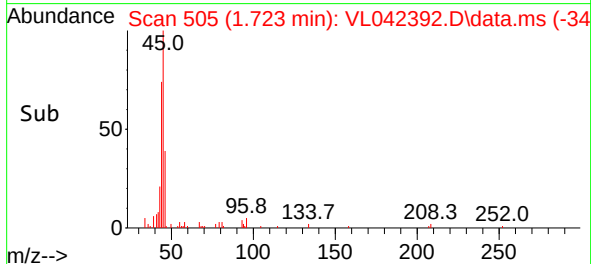
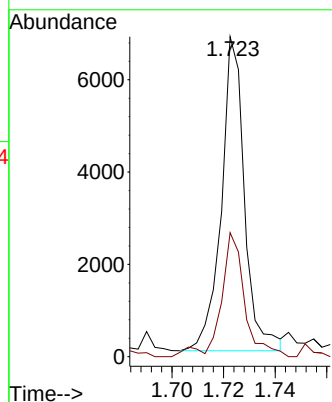
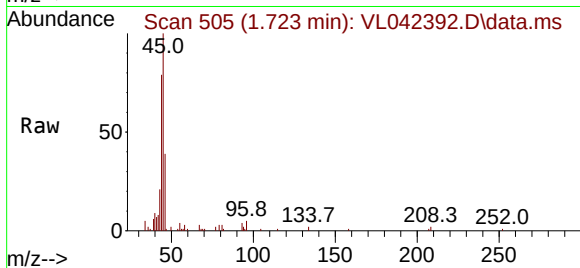




#13
Ethanol
Concen: 2.866 ppbv
RT: 1.723 min Scan# 504
Delta R.T. 0.004 min
Lab File: VL042392.D
Acq: 18 Apr 2025 15:16

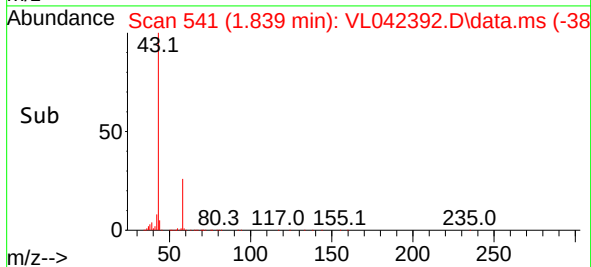
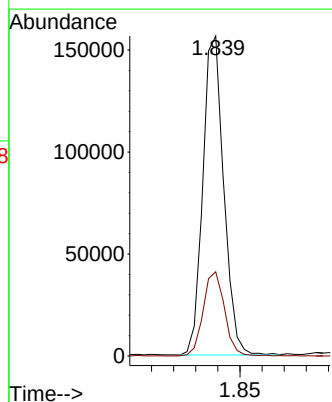
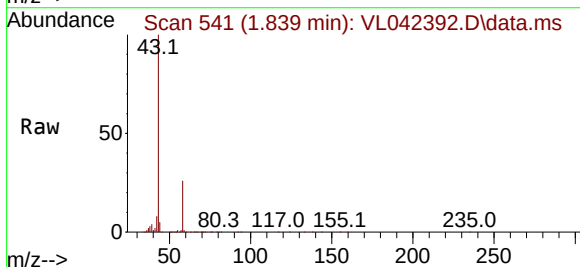
Instrument :
MSVOA_1
ClientSampleId :
IA-B2-3-03312025DL2

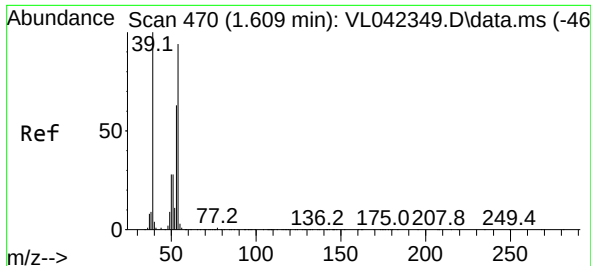
Tgt Ion: 45 Resp: 4246
Ion Ratio Lower Upper
45 100
46 0.0 21.9 87.7#



#15
Acetone
Concen: 5.165 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.004 min
Lab File: VL042392.D
Acq: 18 Apr 2025 15:16

Tgt Ion: 43 Resp: 102862
Ion Ratio Lower Upper
43 100
58 27.1 22.4 33.6

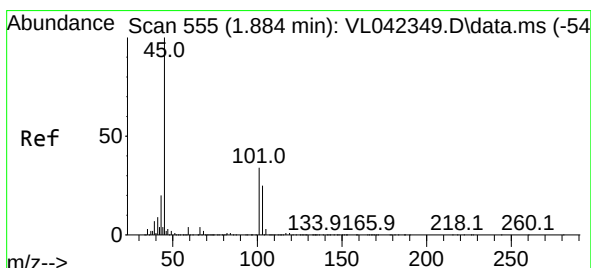
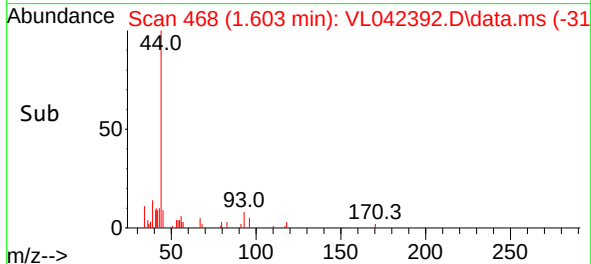
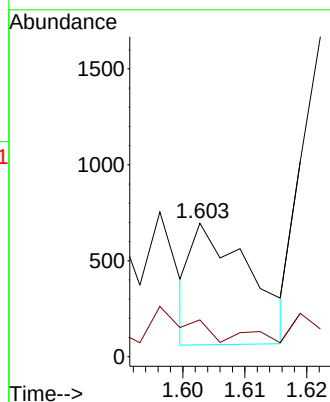
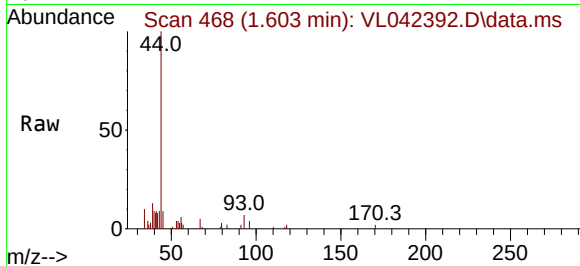




#16
1,3-Butadiene
Concen: 0.043 ppbv
RT: 1.603 min Scan# 411
Delta R.T. -0.006 min
Lab File: VL042392.D
Acq: 18 Apr 2025 15:16

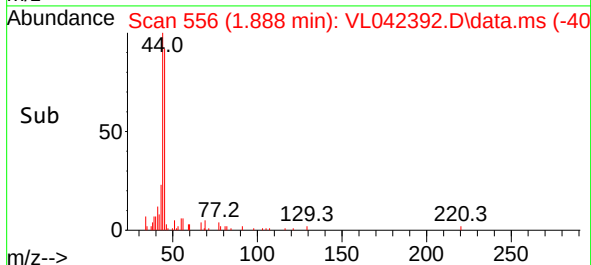
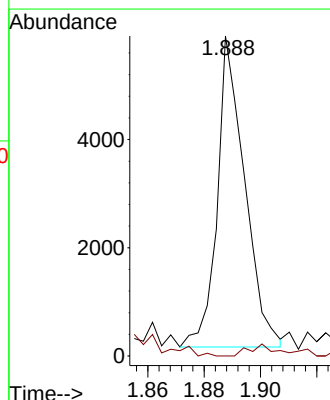
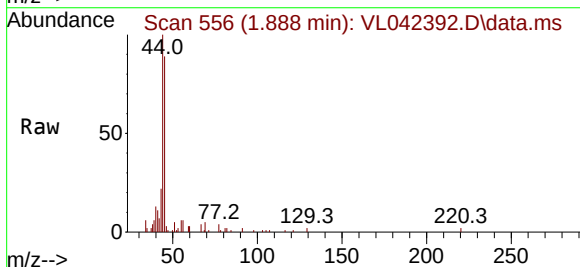
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL2

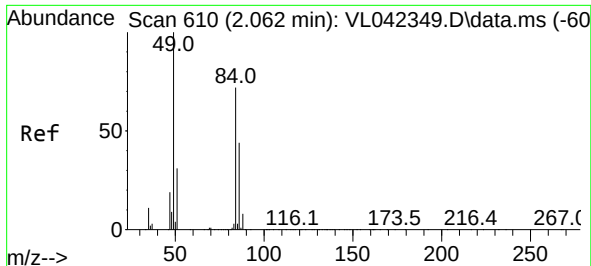
Tgt Ion: 39 Resp: 411
Ion Ratio Lower Upper
39 100
54 0.0 64.9 97.3#



#19
Isopropyl Alcohol
Concen: 0.351 ppbv
RT: 1.888 min Scan# 556
Delta R.T. 0.004 min
Lab File: VL042392.D
Acq: 18 Apr 2025 15:16

Tgt Ion: 45 Resp: 3881
Ion Ratio Lower Upper
45 100
58 717.0 34.5 51.7#

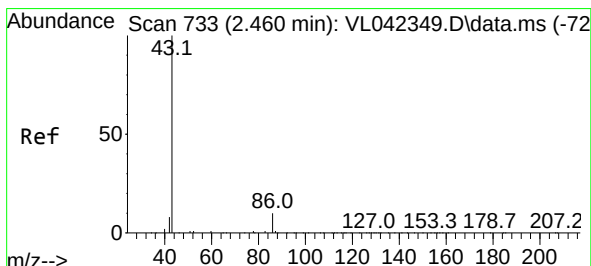
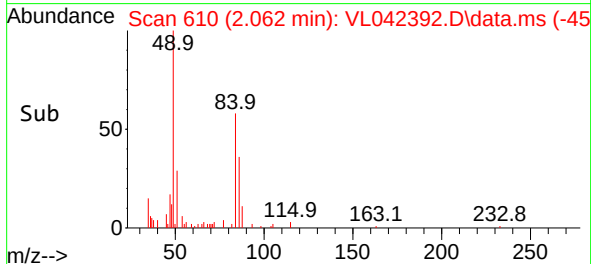
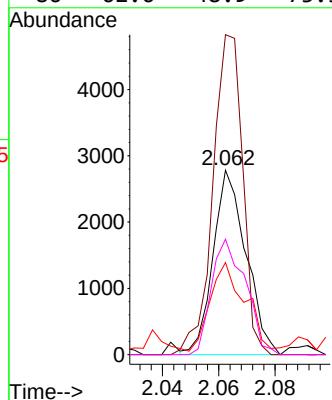
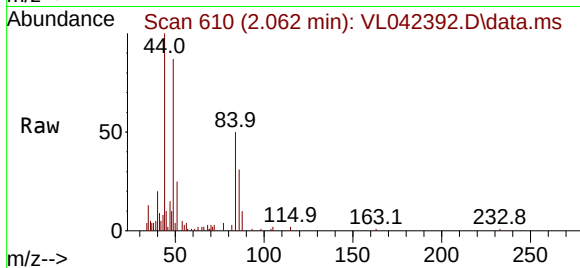




#20
Methylene Chloride
Concen: 0.290 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042392.D
Acq: 18 Apr 2025 15:16

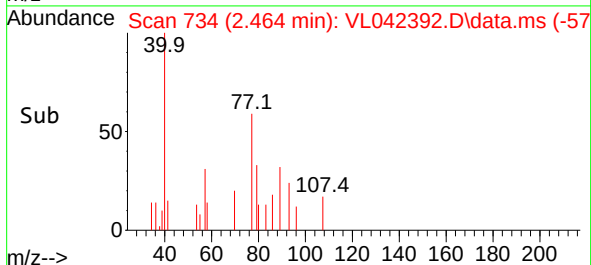
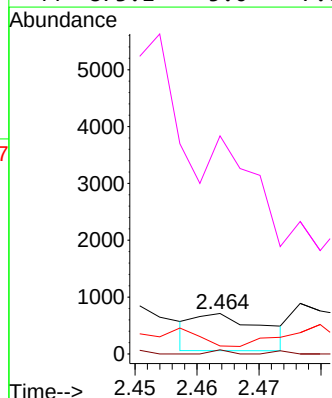
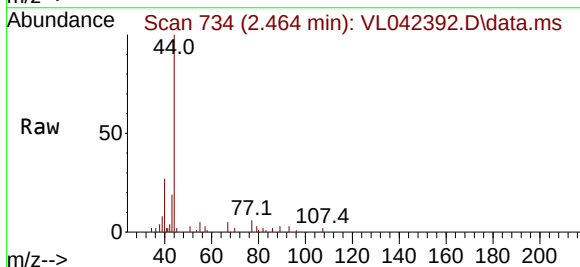
Instrument :
MSVOA_1
ClientSampleId :
IA-B2-3-03312025DL2

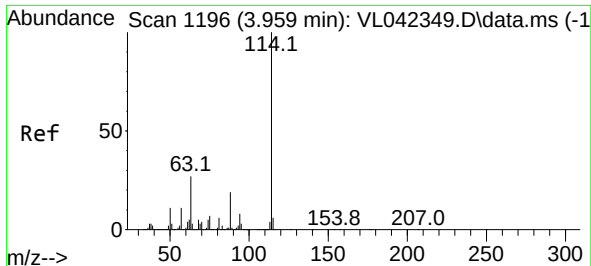
Tgt Ion:	84	Resp:	2263
Ion	Ratio	Lower	Upper
84	100		
49	170.8	111.6	167.4#
51	46.6	35.1	52.7
86	62.6	48.9	73.3



#23
Vinyl Acetate
Concen: 0.062 ppbv
RT: 2.464 min Scan# 734
Delta R.T. 0.004 min
Lab File: VL042392.D
Acq: 18 Apr 2025 15:16

Tgt Ion:	43	Resp:	503
Ion	Ratio	Lower	Upper
43	100		
86	32.7	6.5	9.7#
42	0.0	7.8	11.8#
44	873.1	5.0	7.6#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.966 min Scan# 1197

Delta R.T. 0.007 min

Lab File: VL042392.D

Acq: 18 Apr 2025 15:16

Instrument :

MSVOA_1

ClientSampleId :

IA-B2-3-03312025DL2

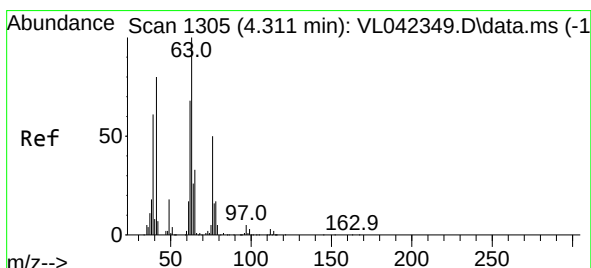
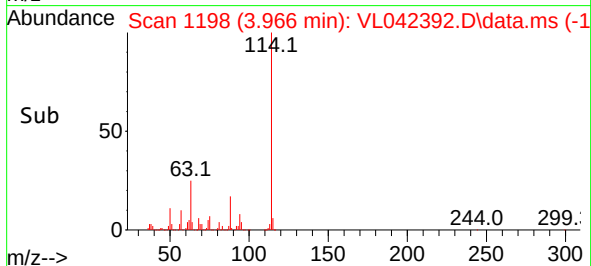
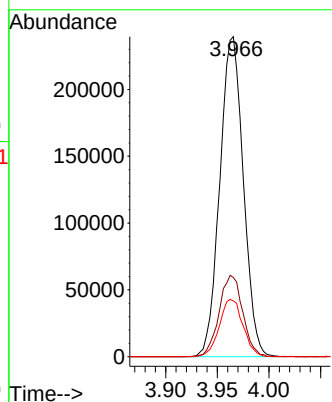
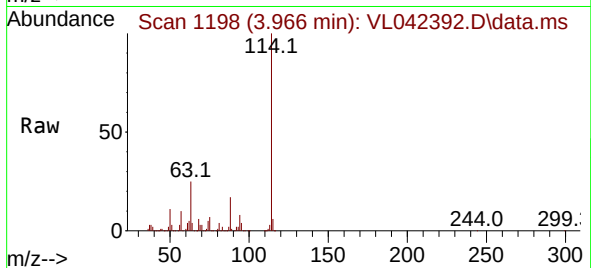
Tgt Ion:114 Resp: 379829

Ion Ratio Lower Upper

114 100

63 25.5 21.8 32.6

88 17.9 15.5 23.3



#39

1,2-Dichloropropane

Concen: 6.343 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. -0.349 min

Lab File: VL042392.D

Acq: 18 Apr 2025 15:16

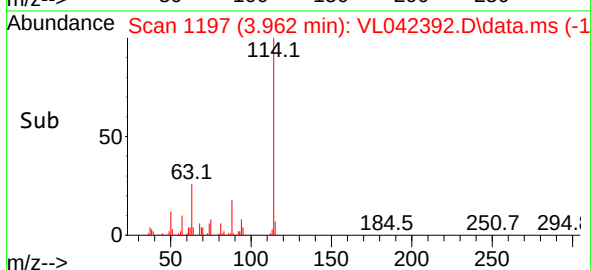
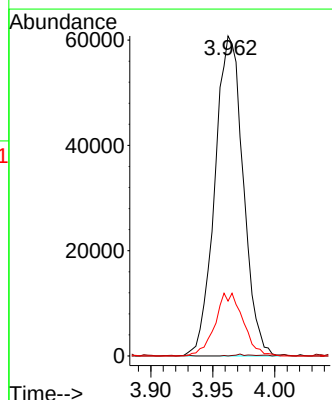
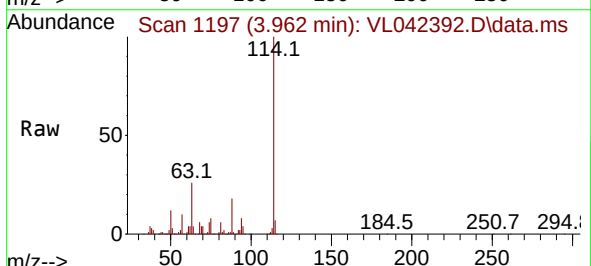
Tgt Ion: 63 Resp: 96830

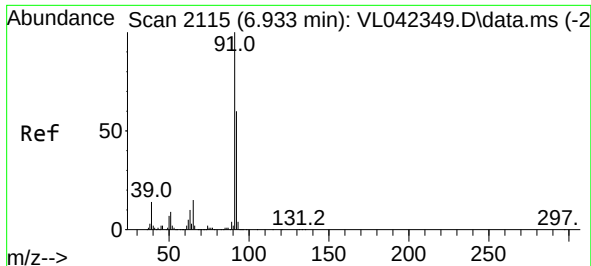
Ion Ratio Lower Upper

63 100

41 0.0 64.2 96.2#

62 17.2 54.3 81.5#

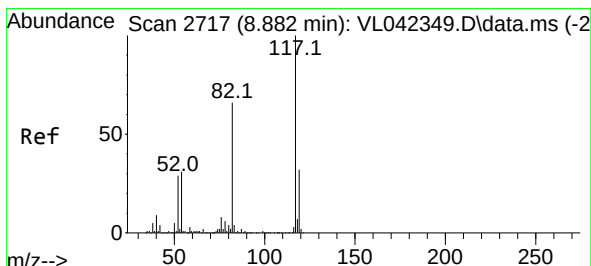
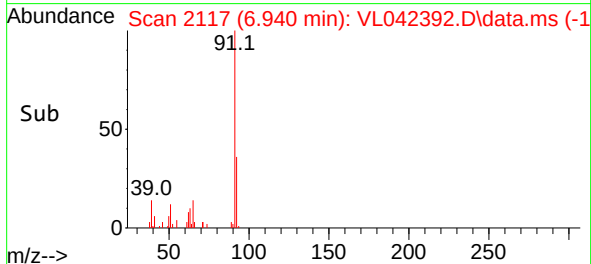
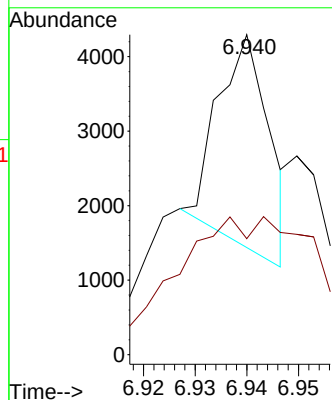
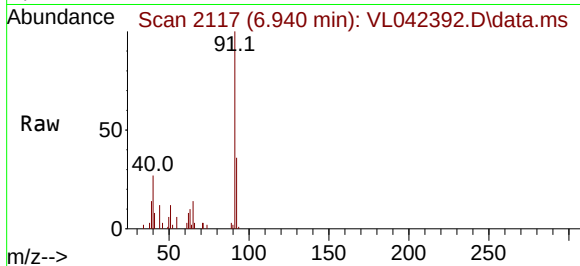




#53
Toluene
Concen: 0.038 ppbv
RT: 6.940 min Scan# 2115
Delta R.T. 0.007 min
Lab File: VL042392.D
Acq: 18 Apr 2025 15:16

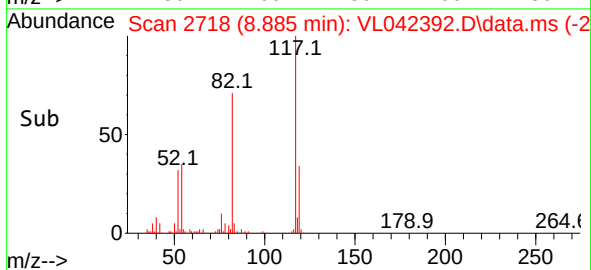
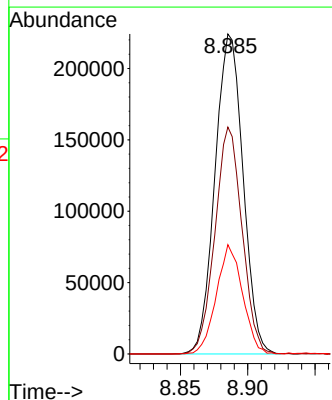
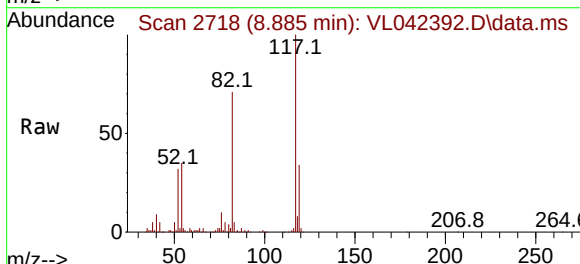
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL2

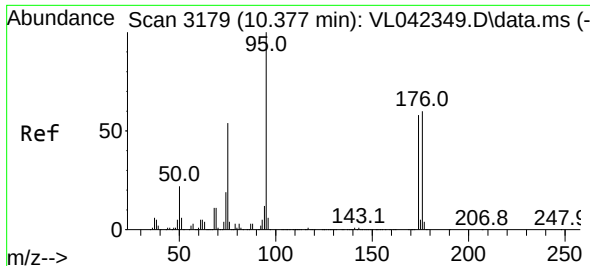
Tgt Ion: 91 Resp: 1886
Ion Ratio Lower Upper
91 100
92 211.8 48.2 72.4#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 2718
Delta R.T. 0.004 min
Lab File: VL042392.D
Acq: 18 Apr 2025 15:16

Tgt Ion: 117 Resp: 325040
Ion Ratio Lower Upper
117 100
82 68.5 57.8 86.6
119 32.0 25.2 37.8

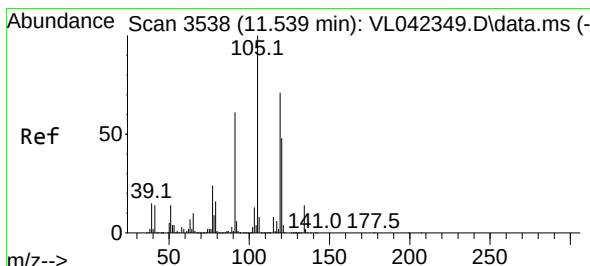
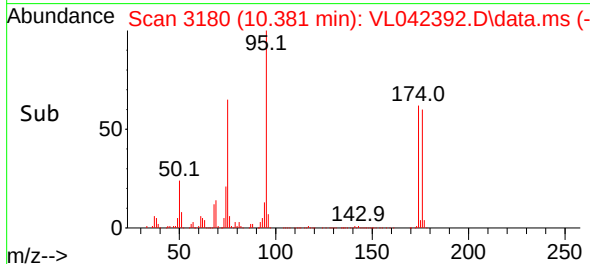
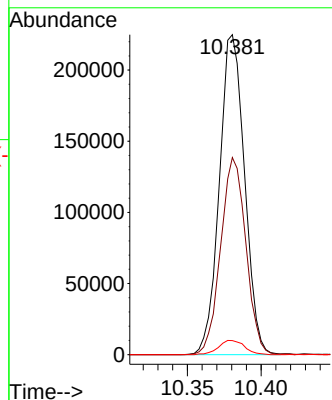
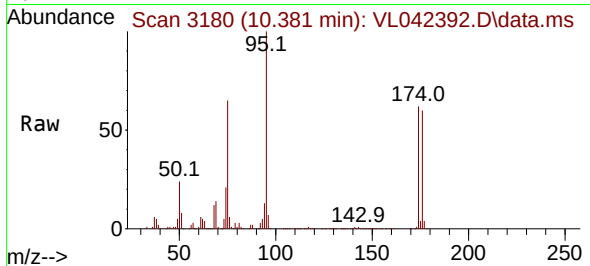




#68
1-Bromo-4-Fluorobenzene
Concen: 9.999 ppbv
RT: 10.381 min Scan# 3179
Delta R.T. 0.004 min
Lab File: VL042392.D
Acq: 18 Apr 2025 15:16

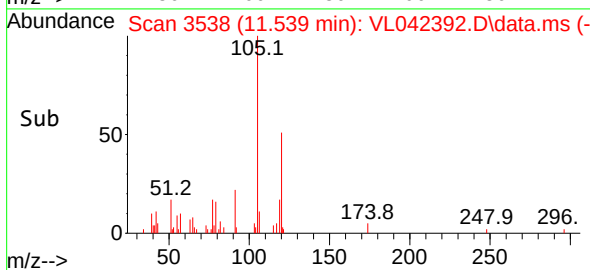
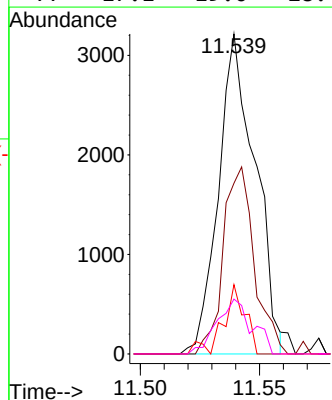
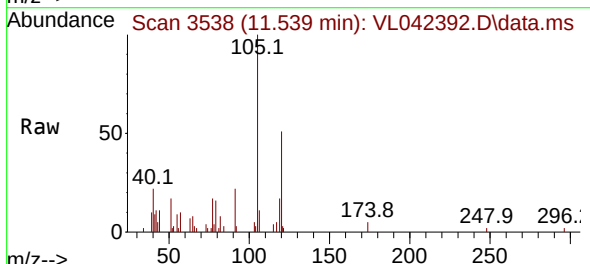
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL2

Tgt Ion: 95 Resp: 267080
Ion Ratio Lower Upper
95 100
174 61.9 48.5 72.7
175 4.6 3.7 5.5



#74
1,2,4-Trimethylbenzene
Concen: 0.052 ppbv
RT: 11.539 min Scan# 3538
Delta R.T. 0.000 min
Lab File: VL042392.D
Acq: 18 Apr 2025 15:16

Tgt Ion: 105 Resp: 3442
Ion Ratio Lower Upper
105 100
120 53.3 38.1 57.1
91 21.6 48.8 73.2#
77 17.1 19.0 28.4#



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
 Data File : VL042393.D
 Acq On : 18 Apr 2025 15:47
 Operator : SY/MD
 Sample : Q1726-06DL2DUP 100X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-3-03312025DL2DUP

Quant Time: Apr 18 23:00:28 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)

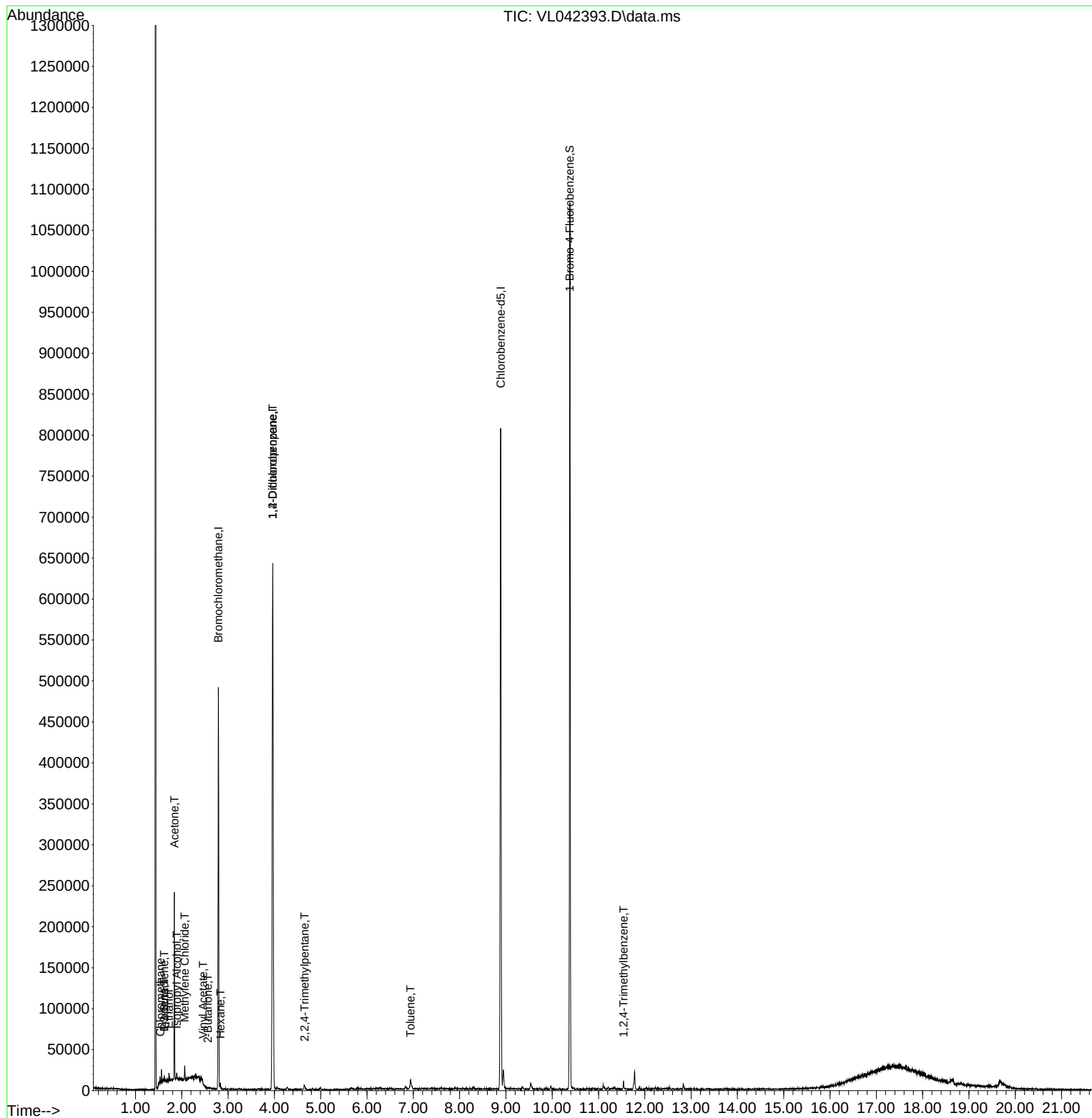
Internal Standards						
1) Bromochloromethane	2.790	49	123948	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	373006	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	318921	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	266367	10.164	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.600%
Target Compounds						
					Qvalue	
4) Chloromethane	1.538	50	353	0.041	ppbv #	61
9) Propene	1.622	41	1182	0.124	ppbv	99
13) Ethanol	1.722	45	3385	2.243	ppbv #	24
15) Acetone	1.839	43	96169	4.740	ppbv	100
16) 1,3-Butadiene	1.622	39	969	0.100	ppbv #	9
19) Isopropyl Alcohol	1.891	45	3389	0.301	ppbv #	1
20) Methylene Chloride	2.062	84	2513	0.316	ppbv #	79
23) Vinyl Acetate	2.457	43	1031	0.126	ppbv #	1
26) Hexane	2.833	57	1405	0.069	ppbv #	24
34) 2-Butanone	2.561	43	1152	0.039	ppbv #	72
39) 1,2-Dichloropropane	3.965	63	96794	6.456	ppbv #	22
44) 2,2,4-Trimethylpentane	4.652	57	3098	0.045	ppbv #	34
53) Toluene	6.940	91	6073	0.126	ppbv	90
74) 1,2,4-Trimethylbenzene	11.539	105	3019	0.047	ppbv #	65

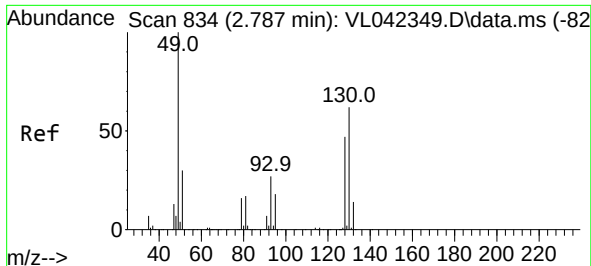
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL041825\
Data File : VL042393.D
Acq On : 18 Apr 2025 15:47
Operator : SY/MD
Sample : Q1726-06DL2DUP 100X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL2DUP

Quant Time: Apr 18 23:00:28 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

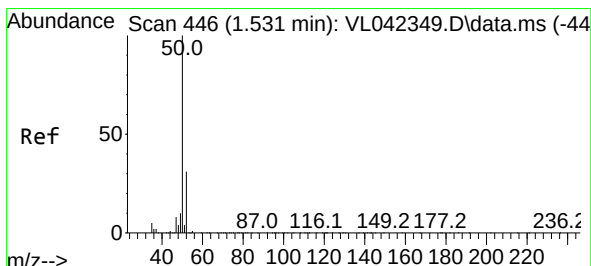
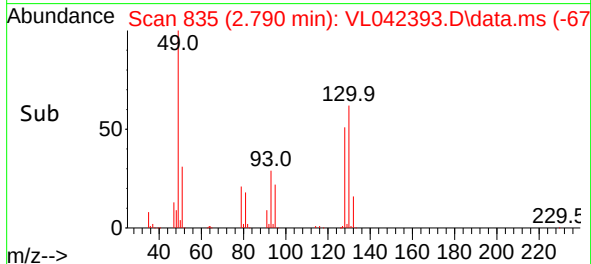
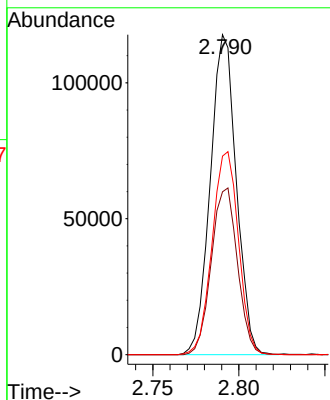
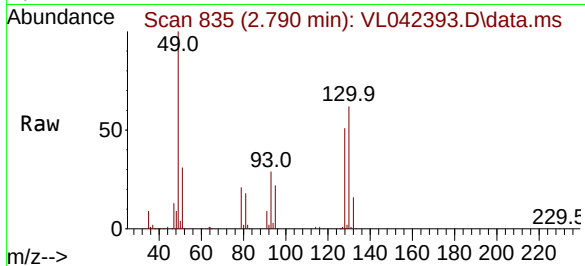




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042393.D
Acq: 18 Apr 2025 15:47

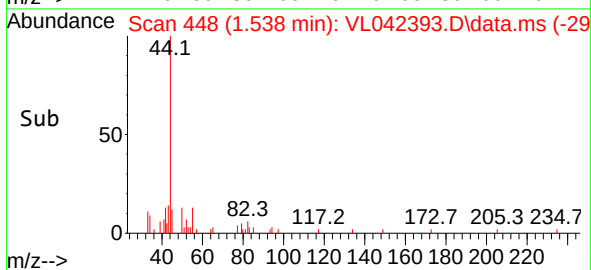
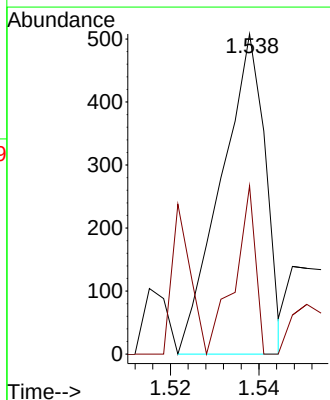
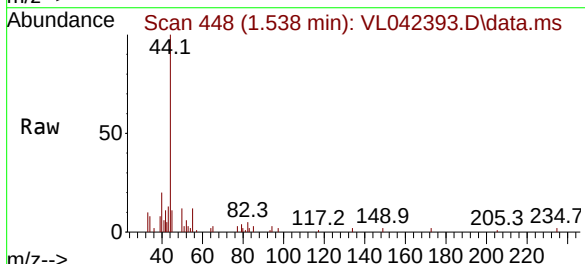
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL2DUP

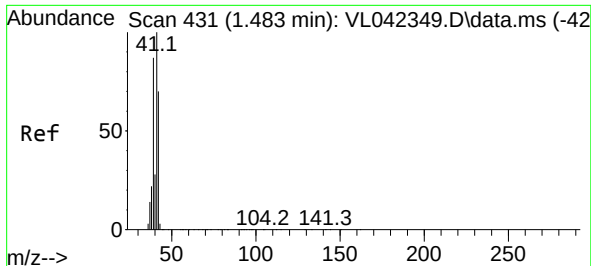
Tgt Ion: 49 Resp: 123948
Ion Ratio Lower Upper
49 100
128 52.3 22.8 68.4
130 64.1 29.3 88.0



#4
Chloromethane
Concen: 0.041 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.007 min
Lab File: VL042393.D
Acq: 18 Apr 2025 15:47

Tgt Ion: 50 Resp: 353
Ion Ratio Lower Upper
50 100
52 52.6 24.7 37.1#





#9

Propene

Concen: 0.124 ppbv

RT: 1.622 min Scan# 41

Delta R.T. 0.139 min

Lab File: VL042393.D

Acq: 18 Apr 2025 15:47

Instrument :

MSVOA_L

ClientSampleId :

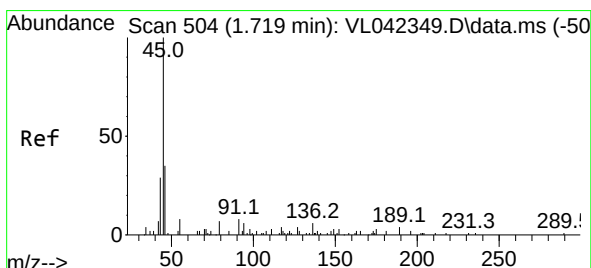
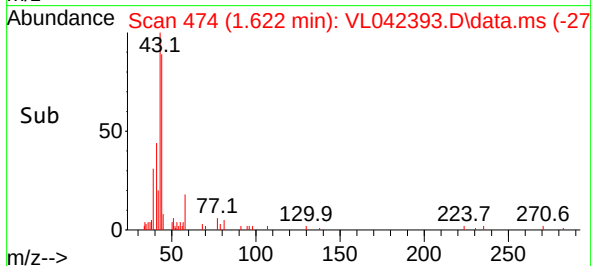
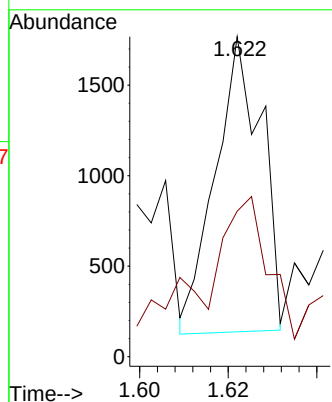
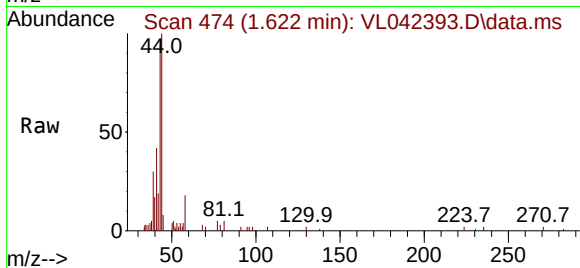
IA-B2-3-03312025DL2DUP

Tgt Ion: 41 Resp: 1182

Ion Ratio Lower Upper

41 100

42 71.3 56.2 84.4



#13

Ethanol

Concen: 2.243 ppbv

RT: 1.722 min Scan# 505

Delta R.T. 0.003 min

Lab File: VL042393.D

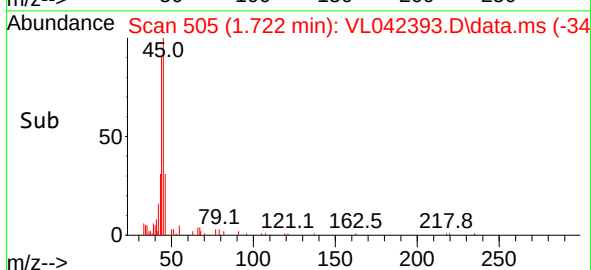
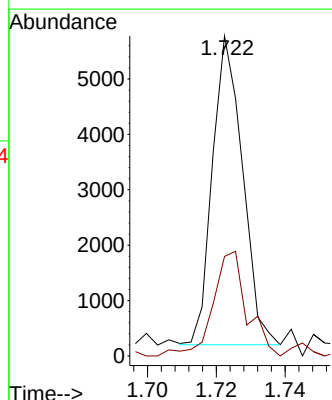
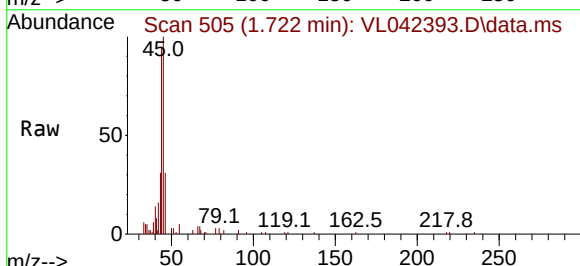
Acq: 18 Apr 2025 15:47

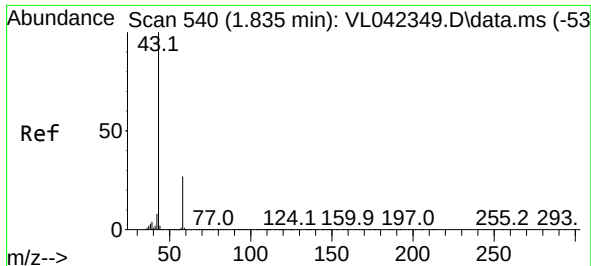
Tgt Ion: 45 Resp: 3385

Ion Ratio Lower Upper

45 100

46 0.0 21.9 87.7#

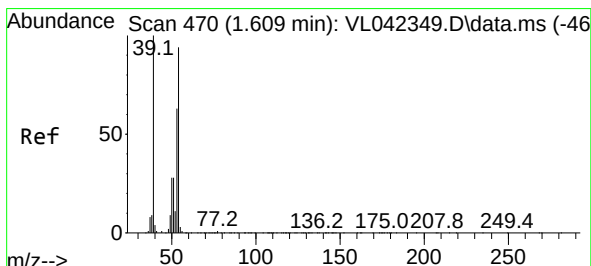
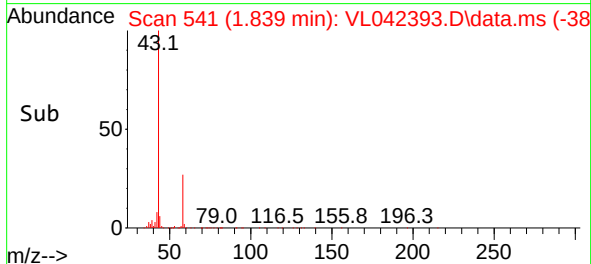
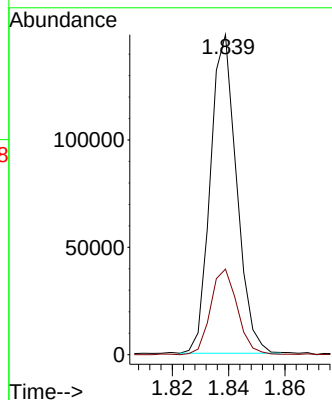
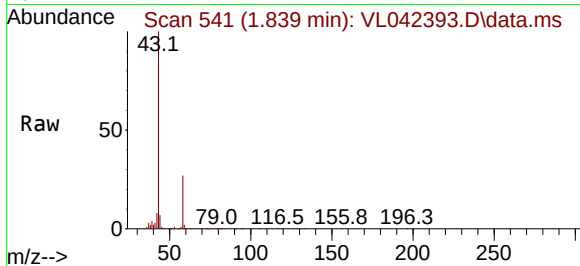




#15
Acetone
Concen: 4.740 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.004 min
Lab File: VL042393.D
Acq: 18 Apr 2025 15:47

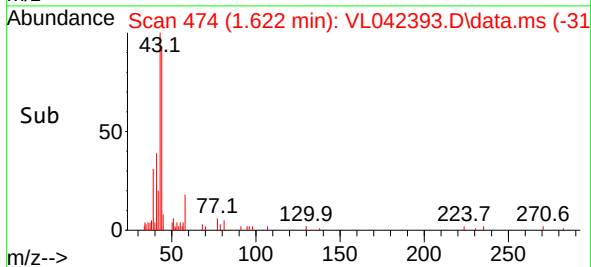
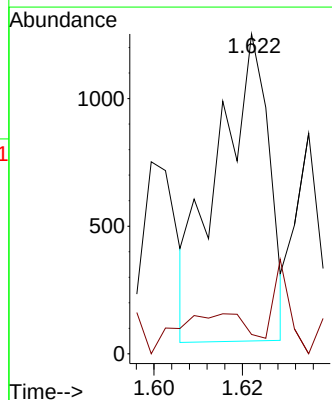
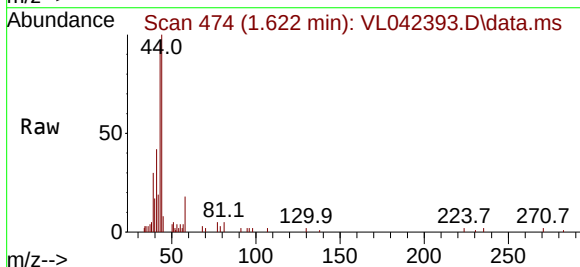
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL2DUP

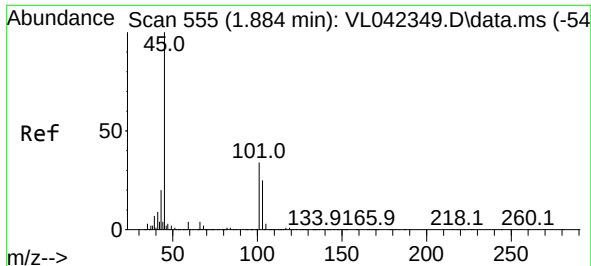
Tgt Ion: 43 Resp: 96169
Ion Ratio Lower Upper
43 100
58 27.9 22.4 33.6



#16
1,3-Butadiene
Concen: 0.100 ppbv
RT: 1.622 min Scan# 474
Delta R.T. 0.013 min
Lab File: VL042393.D
Acq: 18 Apr 2025 15:47

Tgt Ion: 39 Resp: 969
Ion Ratio Lower Upper
39 100
54 0.0 64.9 97.3#

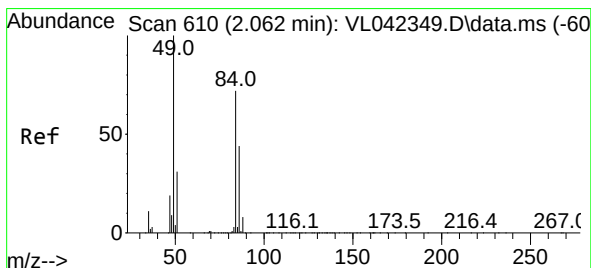
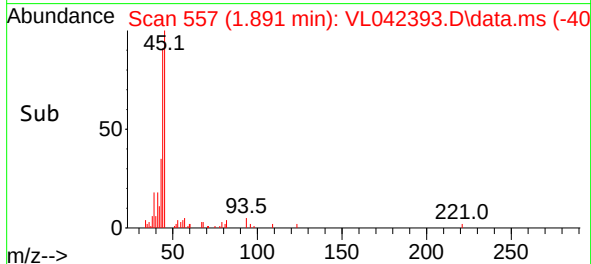
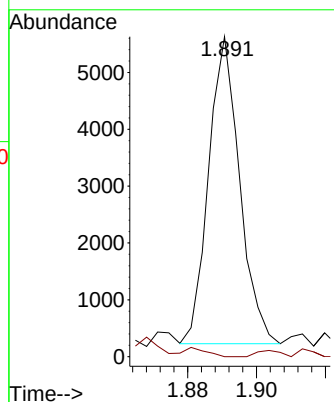
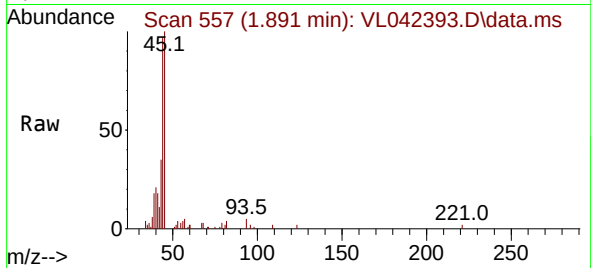




#19
Isopropyl Alcohol
Concen: 0.301 ppbv
RT: 1.891 min Scan# 51
Delta R.T. 0.007 min
Lab File: VL042393.D
Acq: 18 Apr 2025 15:47

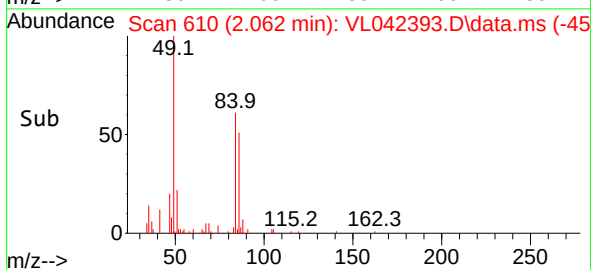
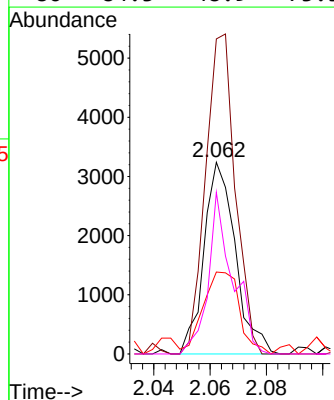
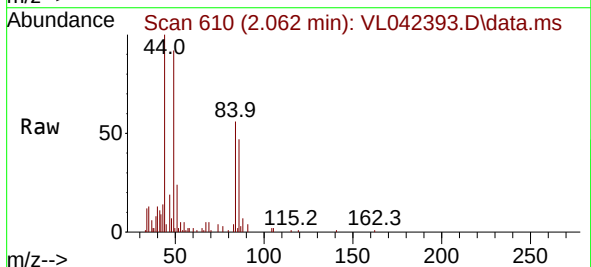
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL2DUP

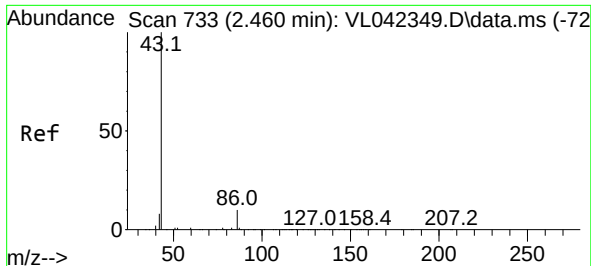
Tgt Ion: 45 Resp: 3389
Ion Ratio Lower Upper
45 100
58 791.4 34.5 51.7#



#20
Methylene Chloride
Concen: 0.316 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042393.D
Acq: 18 Apr 2025 15:47

Tgt Ion: 84 Resp: 2513
Ion Ratio Lower Upper
84 100
49 168.3 111.6 167.4#
51 43.7 35.1 52.7
86 84.3 48.9 73.3#

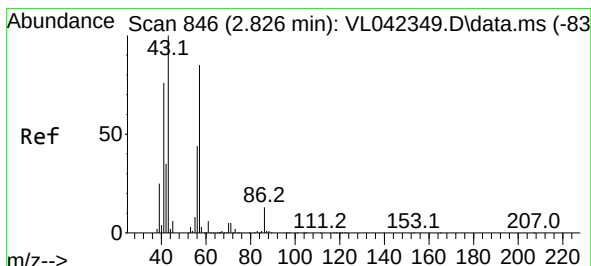
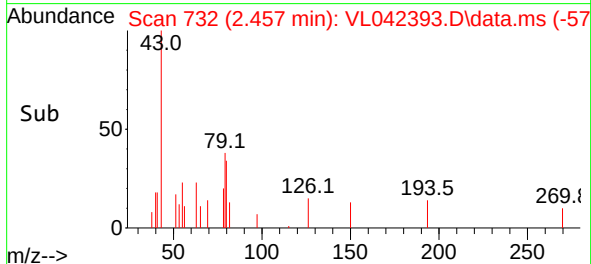
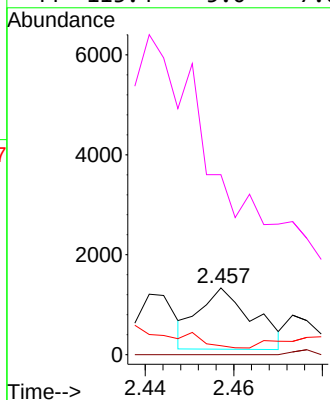
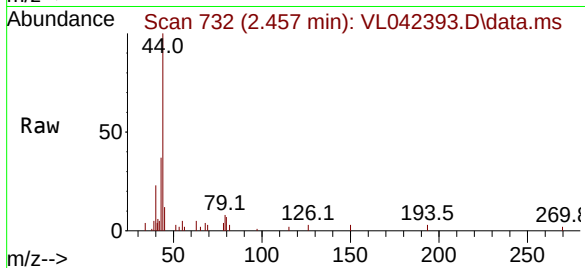




#23
Vinyl Acetate
Concen: 0.126 ppbv
RT: 2.457 min Scan# 71
Delta R.T. -0.003 min
Lab File: VL042393.D
Acq: 18 Apr 2025 15:47

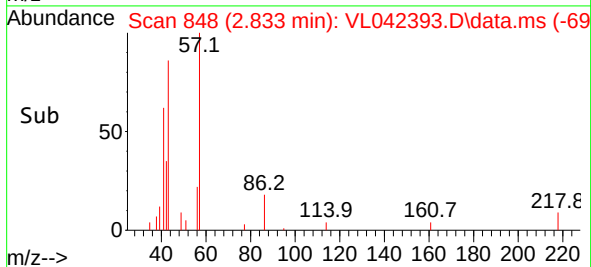
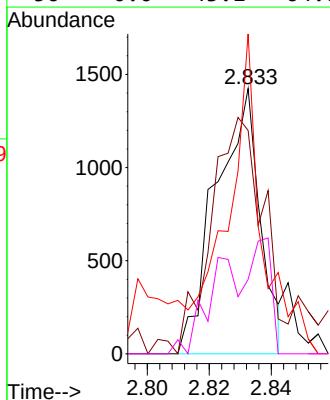
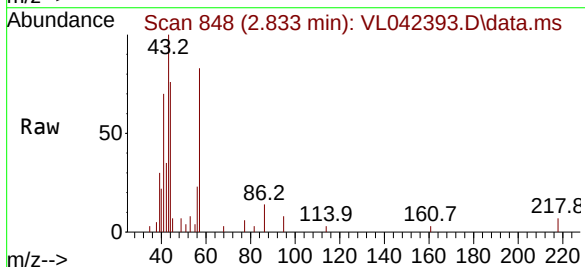
Instrument :
MSVOA_1
ClientSampleId :
IA-B2-3-03312025DL2DUP

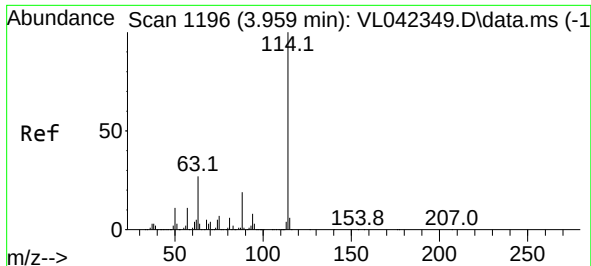
Tgt Ion:	43	Resp:	1031
Ion	Ratio	Lower	Upper
43	100		
86	0.0	6.5	9.7#
42	0.0	7.8	11.8#
44	113.4	5.0	7.6#



#26
Hexane
Concen: 0.069 ppbv
RT: 2.833 min Scan# 848
Delta R.T. 0.007 min
Lab File: VL042393.D
Acq: 18 Apr 2025 15:47

Tgt Ion:	57	Resp:	1405
Ion	Ratio	Lower	Upper
57	100		
41	136.4	77.9	116.9#
43	99.9	208.4	312.6#
56	0.0	43.1	64.7#

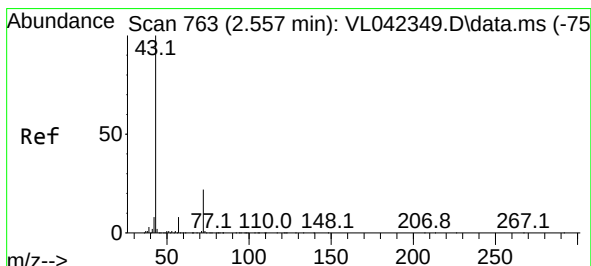
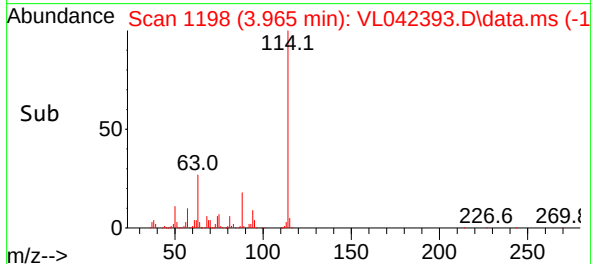
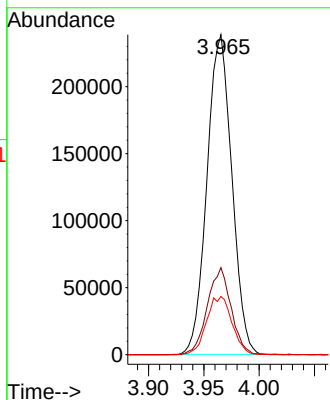
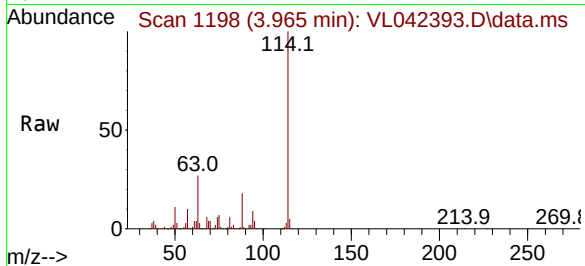




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.965 min Scan# 1196
 Delta R.T. 0.007 min
 Lab File: VL042393.D
 Acq: 18 Apr 2025 15:47

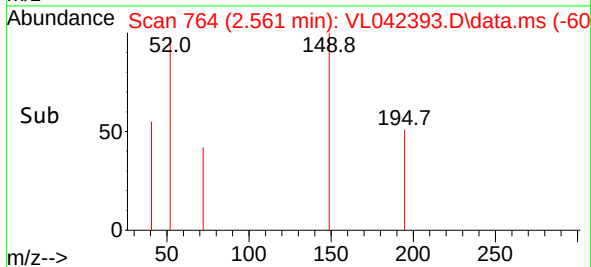
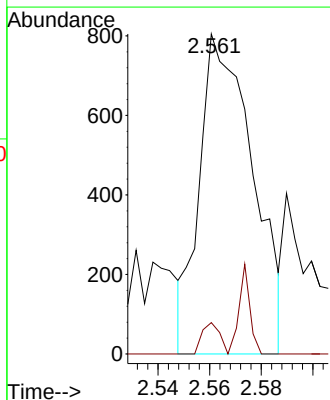
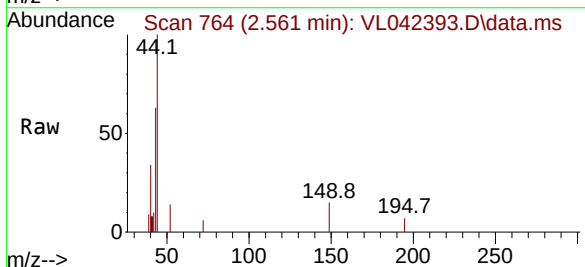
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-3-03312025DL2DUP

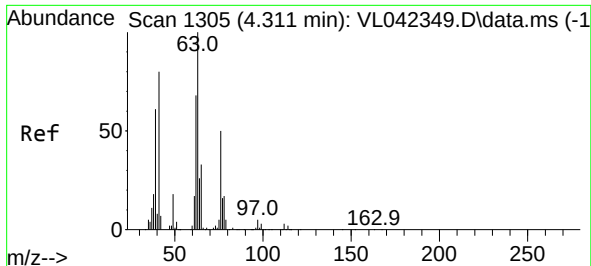
Tgt Ion:114 Resp: 373006
 Ion Ratio Lower Upper
 114 100
 63 26.0 21.8 32.6
 88 18.7 15.5 23.3



#34
 2-Butanone
 Concen: 0.039 ppbv
 RT: 2.561 min Scan# 764
 Delta R.T. 0.003 min
 Lab File: VL042393.D
 Acq: 18 Apr 2025 15:47

Tgt Ion: 43 Resp: 1152
 Ion Ratio Lower Upper
 43 100
 72 9.0 18.2 27.2#





#39

1,2-Dichloropropane

Concen: 6.456 ppbv

RT: 3.965 min Scan# 1198

Delta R.T. -0.346 min

Lab File: VL042393.D

Acq: 18 Apr 2025 15:47

Instrument :

MSVOA_L

ClientSampleId :

IA-B2-3-03312025DL2DUP

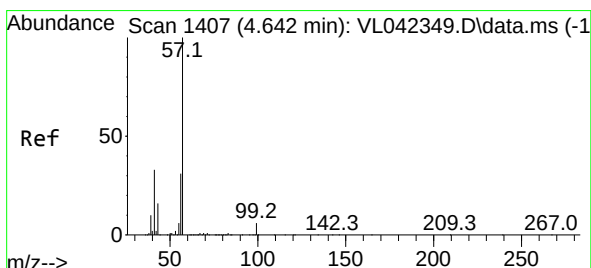
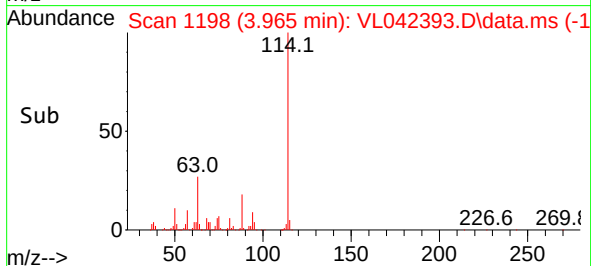
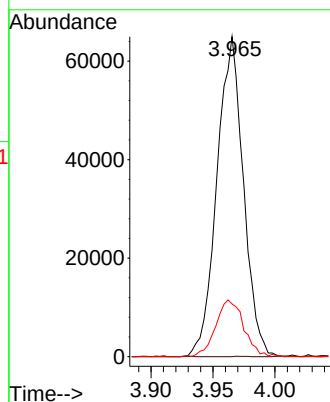
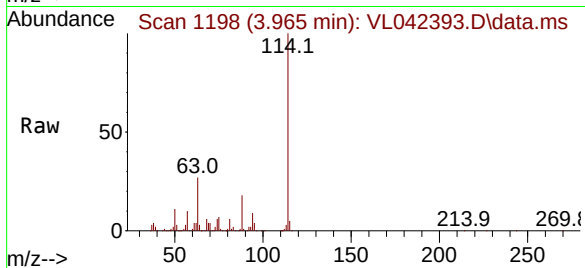
Tgt Ion: 63 Resp: 96794

Ion Ratio Lower Upper

63 100

41 0.0 64.2 96.2#

62 16.5 54.3 81.5#



#44

2,2,4-Trimethylpentane

Concen: 0.045 ppbv

RT: 4.652 min Scan# 1410

Delta R.T. 0.010 min

Lab File: VL042393.D

Acq: 18 Apr 2025 15:47

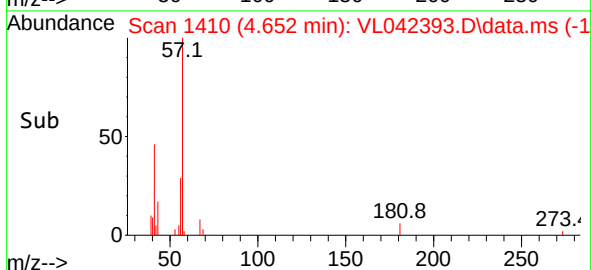
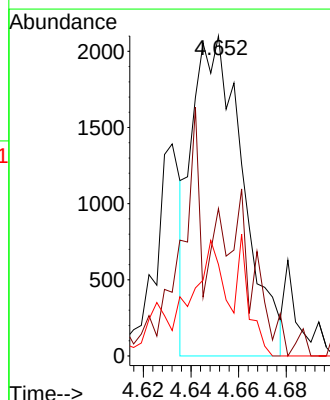
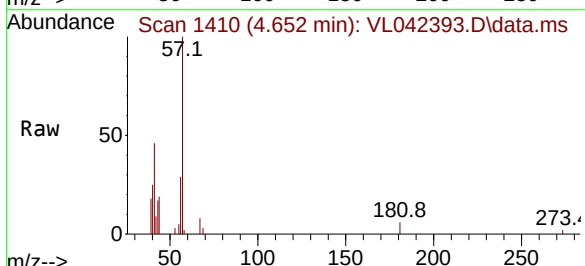
Tgt Ion: 57 Resp: 3098

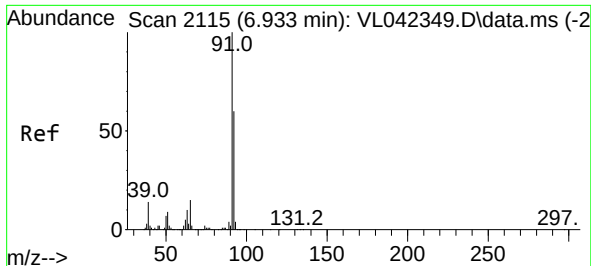
Ion Ratio Lower Upper

57 100

41 76.8 27.2 40.8#

56 0.0 25.7 38.5#

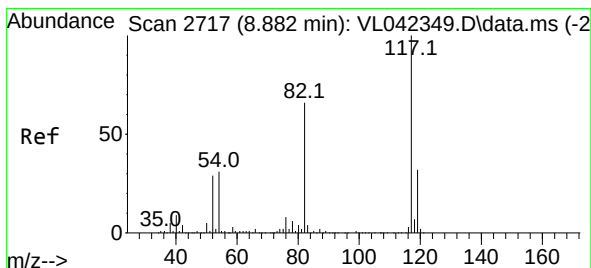
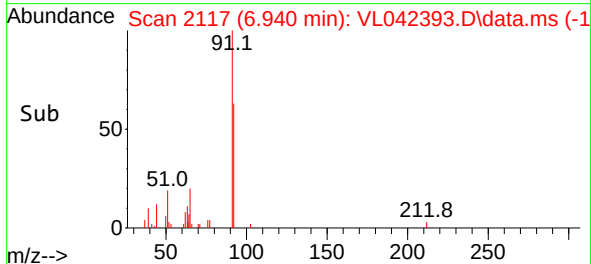
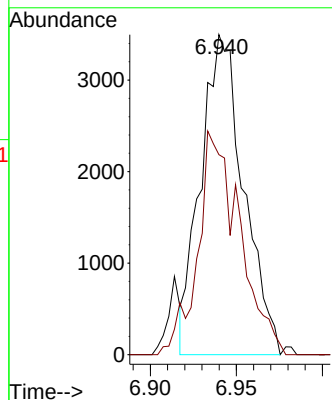
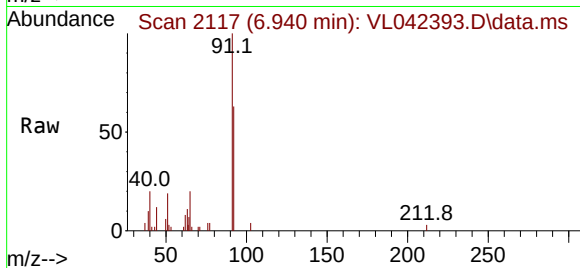




#53
Toluene
Concen: 0.126 ppbv
RT: 6.940 min Scan# 2115
Delta R.T. 0.007 min
Lab File: VL042393.D
Acq: 18 Apr 2025 15:47

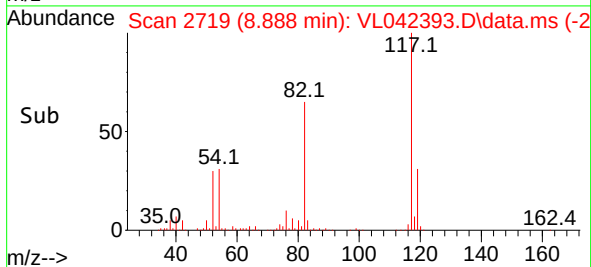
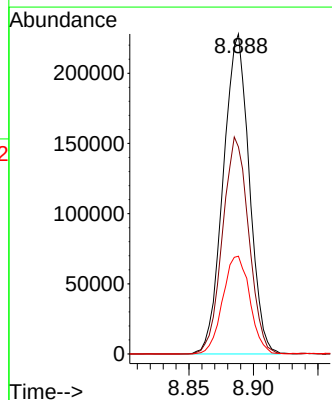
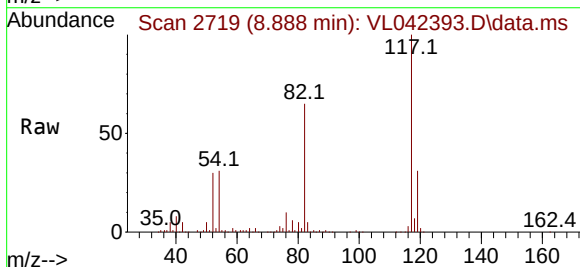
Instrument :
MSVOA_L
ClientSampleId :
IA-B2-3-03312025DL2DUP

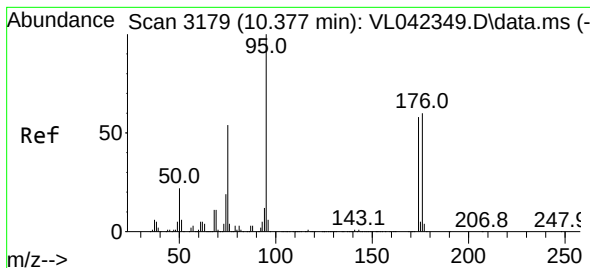
Tgt Ion: 91 Resp: 6073
Ion Ratio Lower Upper
91 100
92 67.8 48.2 72.4



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2719
Delta R.T. 0.007 min
Lab File: VL042393.D
Acq: 18 Apr 2025 15:47

Tgt Ion: 117 Resp: 318921
Ion Ratio Lower Upper
117 100
82 68.4 57.8 86.6
119 32.1 25.2 37.8





#68

1-Bromo-4-Fluorobenzene

Concen: 10.164 ppbv

RT: 10.380 min Scan# 3179

Delta R.T. 0.004 min

Lab File: VL042393.D

Acq: 18 Apr 2025 15:47

Instrument :

MSVOA_1

ClientSampleId :

IA-B2-3-03312025DL2DUP

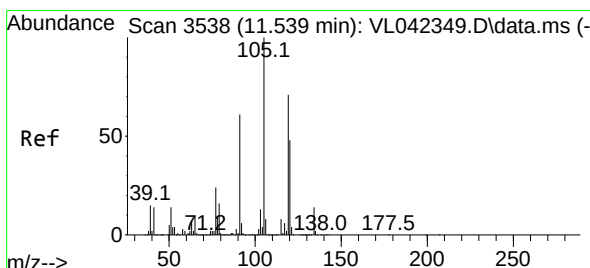
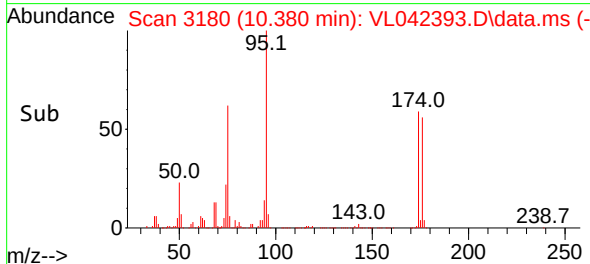
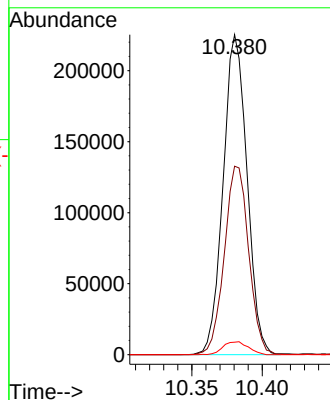
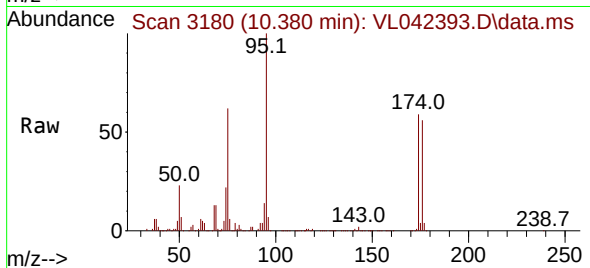
Tgt Ion: 95 Resp: 266367

Ion Ratio Lower Upper

95 100

174 60.1 48.5 72.7

175 4.3 3.7 5.5



#74

1,2,4-Trimethylbenzene

Concen: 0.047 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. 0.000 min

Lab File: VL042393.D

Acq: 18 Apr 2025 15:47

Tgt Ion: 105 Resp: 3019

Ion Ratio Lower Upper

105 100

120 44.0 38.1 57.1

91 8.5 48.8 73.2#

77 19.0 19.0 28.4

